OTHER ALTERNATIVES CONSIDERED FOR THE MANEUVER CENTER OF EXCELLENCE ACTIONS AT FORT BENNING, GEORGIA

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OTHER ALTERNATIVES CONSIDERED FOR THE MANEUVER CENTER OF EXCELLENCE ACTIONS AT FORT BENNING, GEORGIA

1 INTRODUCTION

Fort Benning Military Installation (Installation or Fort Benning), located in Chattahoochee and Muscogee Counties, Georgia (GA) and Russell County, Alabama (AL) (Figure 1-1), is currently undergoing major changes in its organizational structure. The actions associated with the changes are referred to in this document as Fort Benning "Transformation." Environmental impacts from Fort Benning Transformation were evaluated in a Biological Assessment (USACE 2007b), United States (U.S.) Fish and Wildlife Service (USFWS) non-jeopardy Biological Opinion (BO) (USFWS 2007a) and a Final Environmental Impact Statement (FEIS) (USACE 2007c). Since then, some new construction and training needs have been identified and additional projects are required. These new projects and 19 Transformation projects that require reanalysis are collectively referred to as the Maneuver Center of Excellence (MCOE) actions.

Two action alternatives (Alternative A and B) were identified that would meet the purpose and need of the proposed action. The Army has identified Alternative A as its preferred alternative. This Appendix analyzes the impacts of the Alternative B actions on species listed as Threatened or Endangered, or proposed for such listing, by the USFWS pursuant to Section 7 of the Endangered Species Act (ESA), as amended. The No Action Alternative is described below.

In order to minimize repetition in this Appendix, refer to the main body of the MCOE Biological Assessment for discussions on the Background/ Baseline Mission and Operations, Action Area/ Affected Environment, Methodology and Standard Environmental Protocols, Ongoing Conservation Efforts and References Cited.

There have been some minor changes to project impacts analyzed in the Transformation Biological Assessment. These changes have been, or are likely to be, approved via the Installation's NEPA process and, where necessary, informal consultation with USFWS. Thus, the post-project conditions presented in the Transformation Biological Assessment and BO no

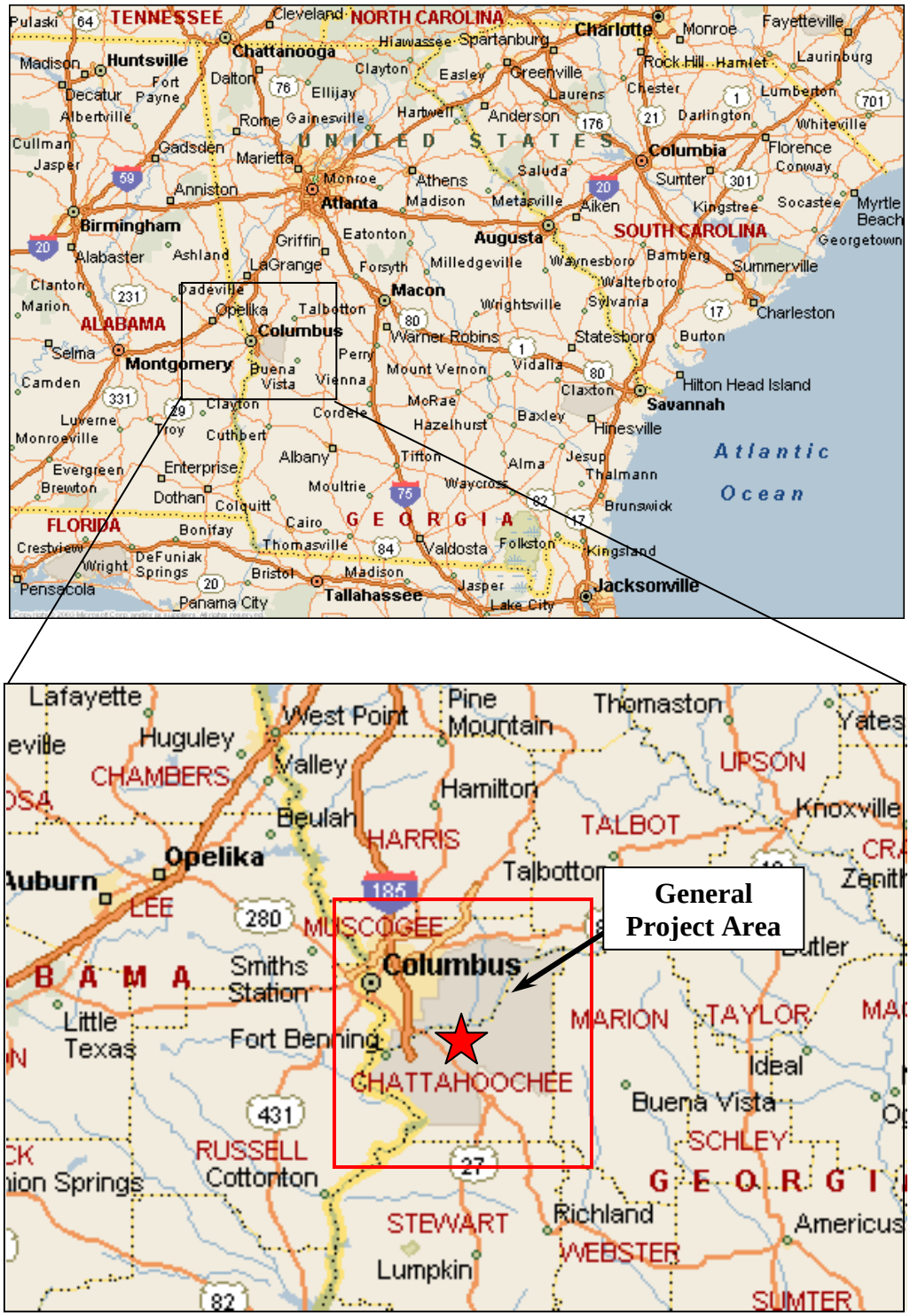

Figure 1-1. General location of the Fort Benning Military Installation near Columbus, Georgia.

longer represents a true “starting point” for analyses for the proposed action. The No Action Alternative is comprised of the current limits of disturbance for the Transformation projects that are not being reanalyzed in this document, along with the original limits of disturbance approved in the BO for Transformation projects being reanalyzed in the proposed action (Figure 1-2). Instead of using the updated location, the 17 reanalyzed projects would remain at their previously approved location under the No Action Alternative.

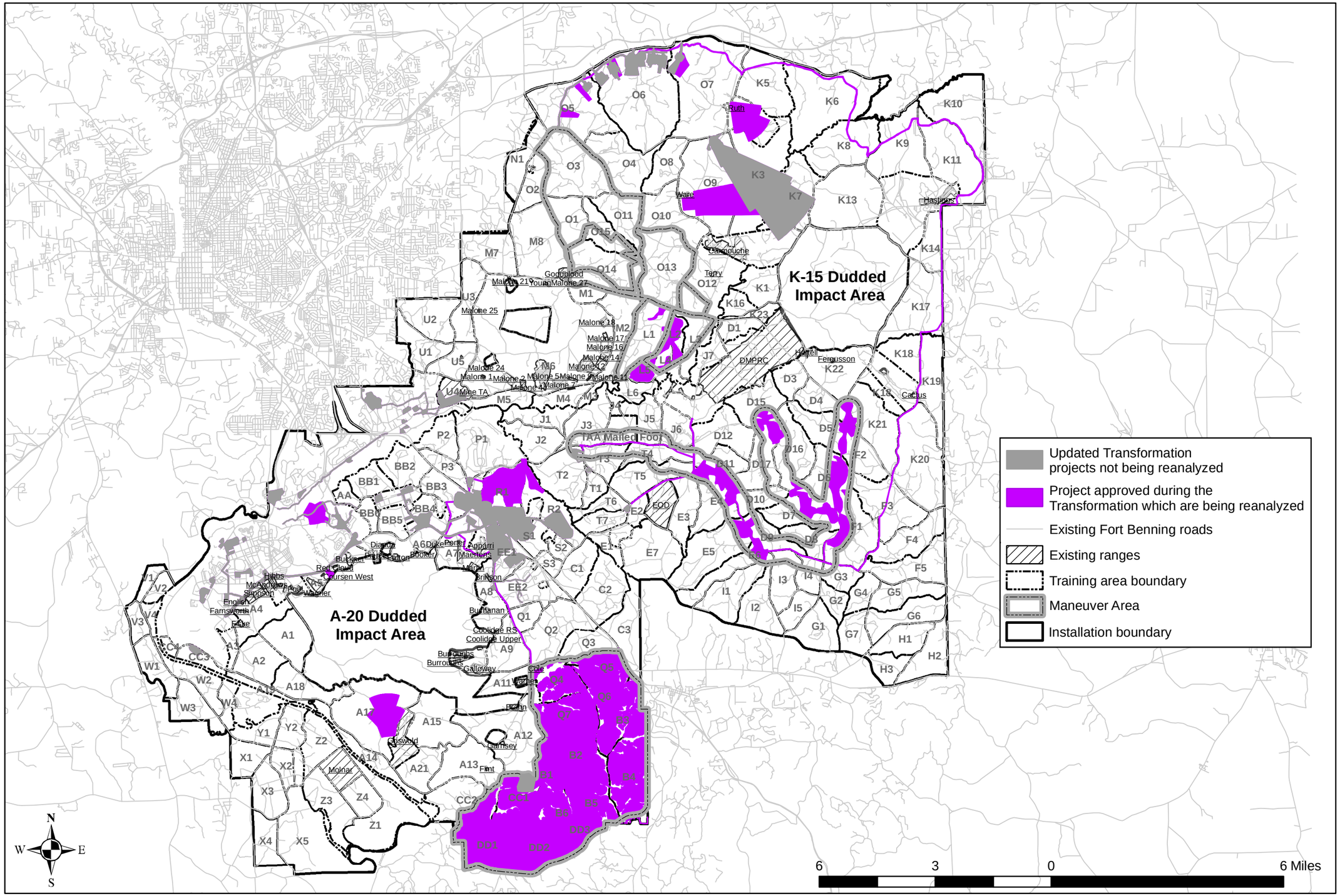

Figure 1-2. The No Action Alternative, comprised of the current limits of disturbance of Transformation projects not requiring reanalysis and the approved limits of disturbance for projects which are being reanalyzed in the proposed action.

2 DESCRIPTION OF THE PROPOSED ACTION

The following sections describe the purpose and need and project descriptions of proposed projects that are only associated with Alternative B. Projects that are the same for Alternative A and B are described Section 4 of the MCOE Biological Assessment. The entire Alternative B action includes the projects described below, the identical projects in Alternative A, the ongoing conservation efforts described in Section 8 and minimization efforts described in Section 9 of the MCOE BA.

2.1 ACTION ALTERNATIVES

The differences between Alternatives A and B are the location of 1 maneuver training course (termed the "19D/K OSUT Maneuver Area") (Project Number (PN) 69741) and 2 additional ranges in Alternative B: a Multi-Purpose Machine Gun Range (MPMG1) (PN 65070 and 68733) and an Automated Combat Pistol Qualification Course (CP/ MPQC2) (PN 65079) (Table 2-1).

2.2 DESCRIPTION OF ALTERNATIVE B

Projects in the proposed Alternative B MCOE action, including reanalyzed Transformation projects are identified in Table 2-1 and Figure 2-1. Refer to Sections 4.4 - 4.7 of the MCOE Biological Assessment for descriptions of projects that are identical under Alternatives A and B. Projects that are unique to Alternative B are discussed below.

2.2.1.1 Maneuver Training Area Designations

The total amount and types of maneuver training courses conducted (described in Section 4.7 of the MCOE Biological Assessment) would be the same under both alternatives, however, under Alternative B, the total area designated as heavy maneuver land would increase by approximately 1,765 acres due to the location of 19D/K OSUT Maneuver Area southwest of Highway (Hwy.) 27-280 that is currently designated as light maneuver (Figure 2-2). Heavy maneuver lands north of Hwy. 27-280 would likewise be used to a lesser extent under Alternative B.

Table 2-1. All projects included in the proposed Alternative B Maneuver Center of Excellence actions at Fort Benning, including reanalyzed Transformation projects.

Project Driver	Project Number	Project Title	Analyzed for Transformation (Y/N)	Fiscal Year- (Start Date)	Fiscal Year- (Date Operational)	Area- Footprint, (Acres)	Area- Limits of Construction (includes range access roads) (Acres)	Area- Ordnance or Maneuver-Impacted Areas (Acres)	Maximum Acres of Pine Impacted	Location
AP3	62953	Rail Loading Facility Expansion	Y	12	----	----	133.71	----	28.05	Harmony Church
BRAC	64797	Tracked Vehicle Drivers Course Access Road	Y	09	10	----	18.15	----	9.43	Harmony Church
BRAC	65034	Fire and Movement Range 3 (FM3)	Y	10	11	10.34	43.87	35.86	50.47	Oscar Small Arms
BRAC	65035	Basic 10M-25M Firing Range 1 (Z1)	Y	09	11	0.79	23.01	3.40	23.32	Oscar Small Arms
BRAC	65036	Basic 10M-25M Firing Range 2 (Z2)	Y	09	11	0.79	20.90	27.74	28.30	Oscar Small Arms
BRAC	65039	Basic 10M-25M Firing Range 5 (Z5)	Y	09	11	0.79	22.02	0.20	19.12	Oscar Small Arms
BRAC	65070	Multipurpose Machine Gun Range 2 (MPMG2)	Y	11	12	238.19	included with PN 68733	550.97	388.33	Southern ranges
BRAC	65079	Automated Combat Pistol Qualification Course (CP/MPQC2)	Y	10	11	1.16	26.07	9.45	25.45	Southern ranges
BRAC	65246	Recreation Centers	Y	12	----	----	28.28	----	3.01	Harmony Church, Sand Hill
BRAC	65248	Physical Fitness Center, Harmony Church	Y	12	----	----	38.81	----	0.76	Harmony Church
BRAC	65383	Stationary Tank Range (ST2)	Y	09	11	294.93	193.00	1,187.88	562.63	Northern ranges
BRAC	65554	Construct Training Area Roads Paved	Y	09	11	----	889.93	----	580.16	Throughout
BRAC	65557	Repair Existing Training Area Roads, Phase 1	Y	10	----	----	1,193.55	----	720.76	Throughout
BRAC	69358	Range Access Road - Good Hope Maneuver Training Area	(Y)	09	11	----	162.01	----	99.50	Good Hope
BRAC	69668	Good Hope Training Area Infrastructure	*Y	09	11	----	1676.83	10,019.07	4,661.58	Good Hope
BRAC	69741	19D/K OSUT Training Area Infrastructure	(Y)	09	11	----	706.58	----	490.42	Southern ranges
BRAC	69743	Southern Training Area Infrastructure	*Y	09	11	----	577.22	4,086.40	3,035.86	Northern ranges
BRAC	70235/ 65081/ 67461	Hospital Replacement	*Y	**08	----	----	137.36	----	2.75	Main Post
BRAC	72017	Vehicle Recovery Course (Ground Mobility Division)	*Y	09	11	----	514.37	----	277.26	Harmony Church
BRAC	64551	Multipurpose Training Range (MPTR)	N	09	----	983.93	488.02	1,382.88	875.88	Northern ranges
BRAC	65033	Fire and Movement Range (FM2)	N	09	11	10.34	71.43	32.51	89.07	Oscar Small Arms Complex
BRAC	65043	Modified Record Fire Range (MRF 1)	N	09	11	23.72	46.76	32.73	58.88	Oscar Small Arms
BRAC	65049	Modified Record Fire Range (MRF 7)	N	09	11	23.72	48.68	37.53	79.53	Oscar Small Arms
BRAC	65078	Anti-Armor Tracking & Live Fire Complex (LA-AR1)	N	09	----	22.52	57.31	6.66	42.95	Southern ranges
BRAC	65250	Maneuver Battle Lab	N	10	----	----	26.90	----	0.00	Main Post
BRAC	67457	Infrastructure Support, Incr 2. Includes security fence and direct buried cable	N	09	----	----	114.80	----	56.81	Northern ranges and Harmony Church
GTA	68733	Multipurpose Machine Gun Range 1 (MPMG1)	N	10	11	238.19	970.13	531.82	1,215.05	Southern ranges

BRAC	Base Realignment and Closure
GWOT	Global War on Terror
GTA	Grow the Army
GDPR	Global Defense Posture Realignment
AP3	Army Power Projection Platform

*Y	Project analyzed under a different PN or no PN in Transformation Biological Assessment
(Y)	Project combined with other PNs in Transformation Biological Assessment
	Location of project is different in Alternative A than in Alternative B
	Project proposed in Alternative B only
**	Project funded in FY08, however, construction will be ≥ FY 09

Table 2-1 (cont.). All projects included in the proposed Alternative B Maneuver Center of Excellence actions at Fort Benning, including reanalyzed Transformation projects.

Project Driver	Project Number	Project Title	Analyzed for Transformation (Y/N)	Fiscal Year- (Start Date)	Fiscal Year- (Date Operational)	Area- Footprint, (Acres)	Area- Limits of Construction (Acres)	Area- Ordnance or Maneuver-Impacted Areas (Acres)	Maximum Acres of Pine Impacted	Location
GTA	69147	Trainee Complex Upgrade	N	09	----	----	81.36	----	4.13	Sand Hill
GTA	69150	Classrooms & Dual Battalion Dining Facility	N	10	----	----	65.74	----	0.60	Sand Hill
GTA	69151	Dining Facilty to Support AST Training	N	10	----	----	10.14	----		Main Post
GDPR	69406	Unit Maintenance Facilities	N	09	----	----	50.54	----	1.89	Main Post
BRAC	69742	Northern Training Area Infrastructure	N	09	11	----	240.23	----	175.04	Northern ranges
GTA	69745/ 72322/ 72324	Training Barracks Complex, Phases 1, 2 and 3	N	10, 11 and 12	----	----	130.80	----	71.19	Sand Hill
GWOT	69999	Warrior in Transition Complex	N	09	----	----	20.84	----	0.00	Main Post
GTA	70026/ 72456	Classrooms with Battalion Dining Facilities, Phases 1 and 2	N	10, 11	----	----	50.19	----	0.00	Sand Hill
GTA	70027/ 72457	Classrooms with Battalion Dining Facilities, Phases 1 and 2	N	10, 11	----	----	72.24	----	4.05	Sand Hill
BRAC	71065	Troop Store - AAFES (NAF)	N	09	----	----	5.64	----	0.00	Harmony Church
BRAC	71473	Water Treatment Plant Upgrade and Expansion	N	10	----	----	46.90	----	0.00	Main Post
BRAC	71620	Dental Clinic Addition	N	10	----	----	9.99	----	0.00	Main Post

BRAC	Base Realignment and Closure	*Y	Project analyzed under a different PN or no PN in Transformation Biological Assessment
GWOT	Global War on Terror	(Y)	Project combined with other PNs in Transformation Biological Assessment
GTA	Grow the Army		Location of project is different in Alternative A than in Alternative B
GDPR	Global Defense Posture Realignment		Project proposed in Alternative B only
AP3	Army Power Projection Platform	**	Project funded in FY08, however, construction will be ≥ FY 09

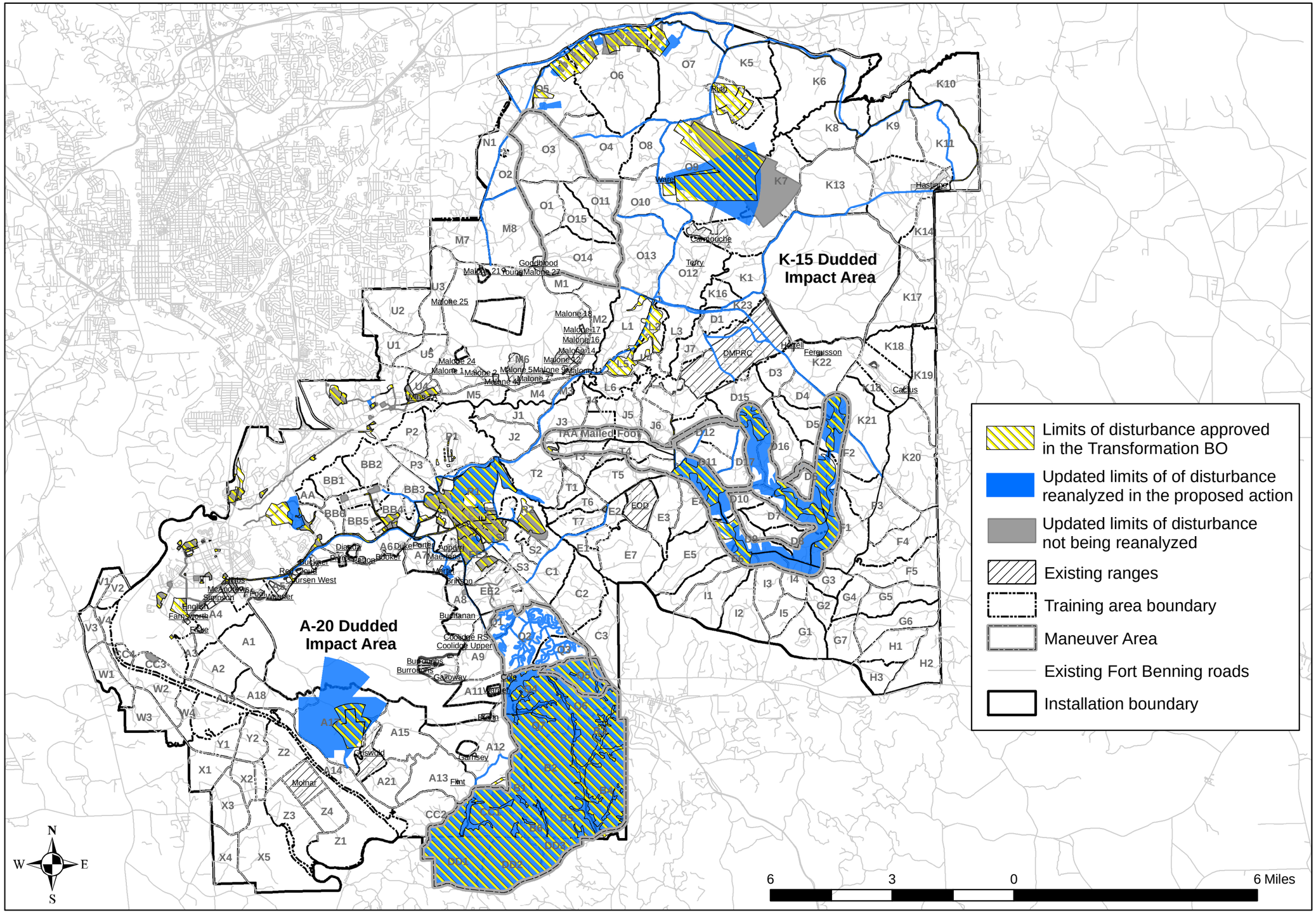

Figure 2-1. Current limits of disturbance of all Transformation projects (including projects reanalyzed in the proposed action, Alternative B), as compared to the limits of disturbance approved in the Transformation Biological Opinion (BO).

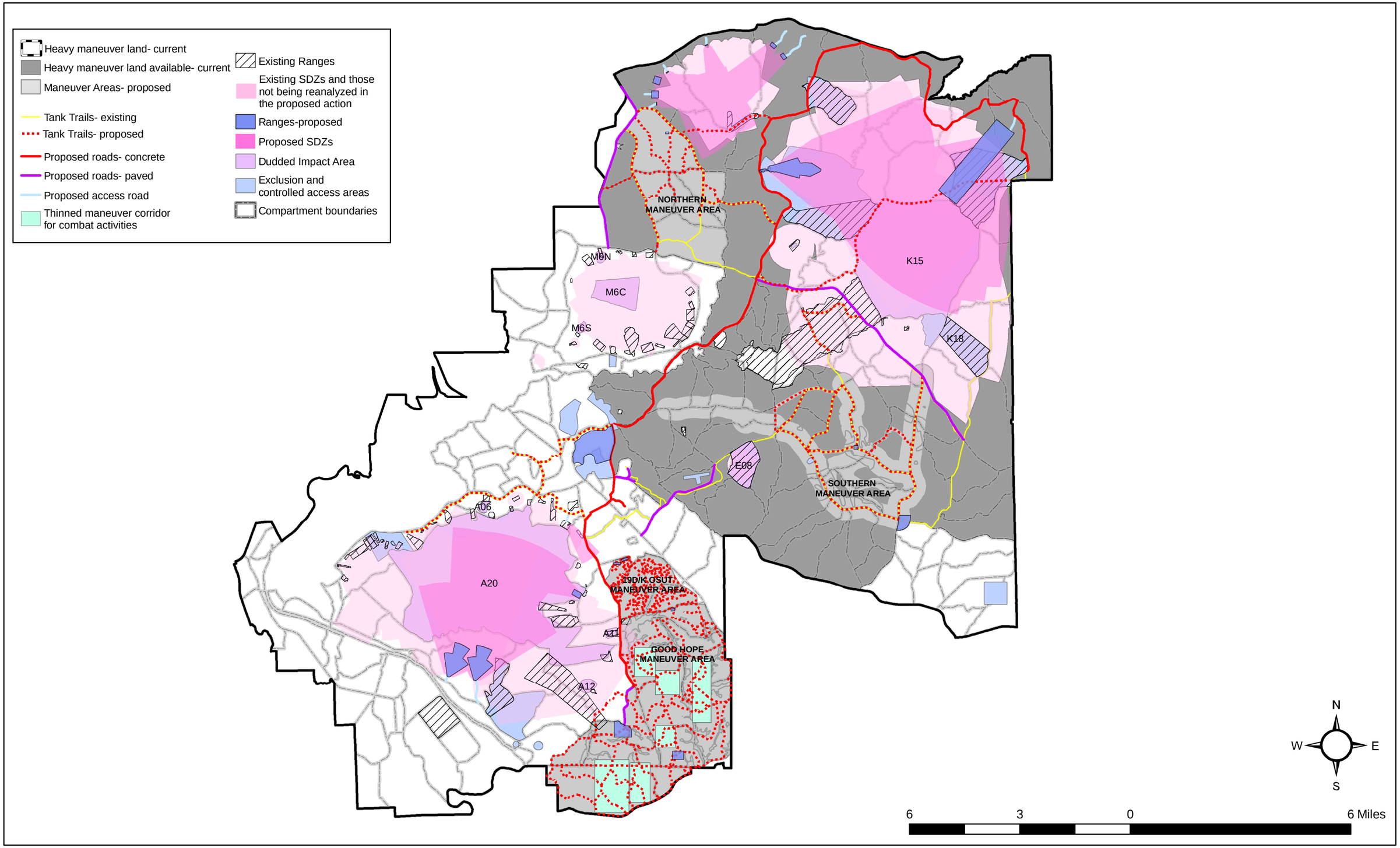

Figure 2-2. Current and proposed Heavy Maneuver Area usage, excluding surface danger zones (SDZs), impact areas and other exclusion areas as designated by Range Division, **Alternative B** for the Maneuver Center of Excellence, Fort Benning.

2.2.1.2 Proposed Maneuver Areas and Associated Infrastructure - New

Under the proposed action, the training courses would be conducted in the Northern Maneuver Area, the 19D/K OSUT Maneuver Area, the Southern Maneuver Area and the Good Hope Maneuver Area. For Alternative B, 19D/K OSUT Maneuver Area would be located just north of the Good Hope Maneuver Area in Training Compartments Q1, 2, 3 and 5 (Figures 2-2, 2-3 and 2-4).

2.2.1.2.1 Northern Maneuver Area (PN 69742) (FY 2009)

The entire Northern Maneuver Area would be used by the USAARMS and 3rd Bde training, for off-road heavy maneuver training. The area totals 4,677 acres and would encompass Compartments O1, O3, O11, O14 and O15. Off-road heavy maneuver training would only occur within 25 ft. of roads and trails or else would require approval through the Fort Benning NEPA process (Figure 2-3).

Roads: As with all proposed roads, impacts were assessed at 96 ft. from centerline, however, the road width would be approximately 30 ft. Approximately 0.43 mile of new roads and 9.92 miles of road upgrades are proposed in this area; this construction would impact 240.23 acres (Table 2-1). Currently, 32 water crossings are planned within the Northern Maneuver Area.

Support Areas: An approximately 4-acre support area would be constructed in Compartment O3 (Figure 2-3).

Pine Habitat Loss: Construction projects and off-road heavy maneuver (adjacent to roads) in the Northern Maneuver Area could result in the loss of up to 175.04 acres of pine habitat over time (Table 2-1).

2.2.1.2.2 19D/K OSUT Maneuver Area (PN 69741) (FY2009) – Reanalyzed

The 19D and 19K OSUT courses would be conducted in an area termed the 19D/K OSUT Maneuver Area. The 19D/K OSUT Maneuver Area would be located just north of the Good Hope Maneuver Area and would be comprised of Compartments Q1-3 and 5, (Figure 2-4). The northern portion of Q1 would be used as a Tactical Assembly Area (TAA) hub site containing several buildings. This area would be used for 24-hour command and control and

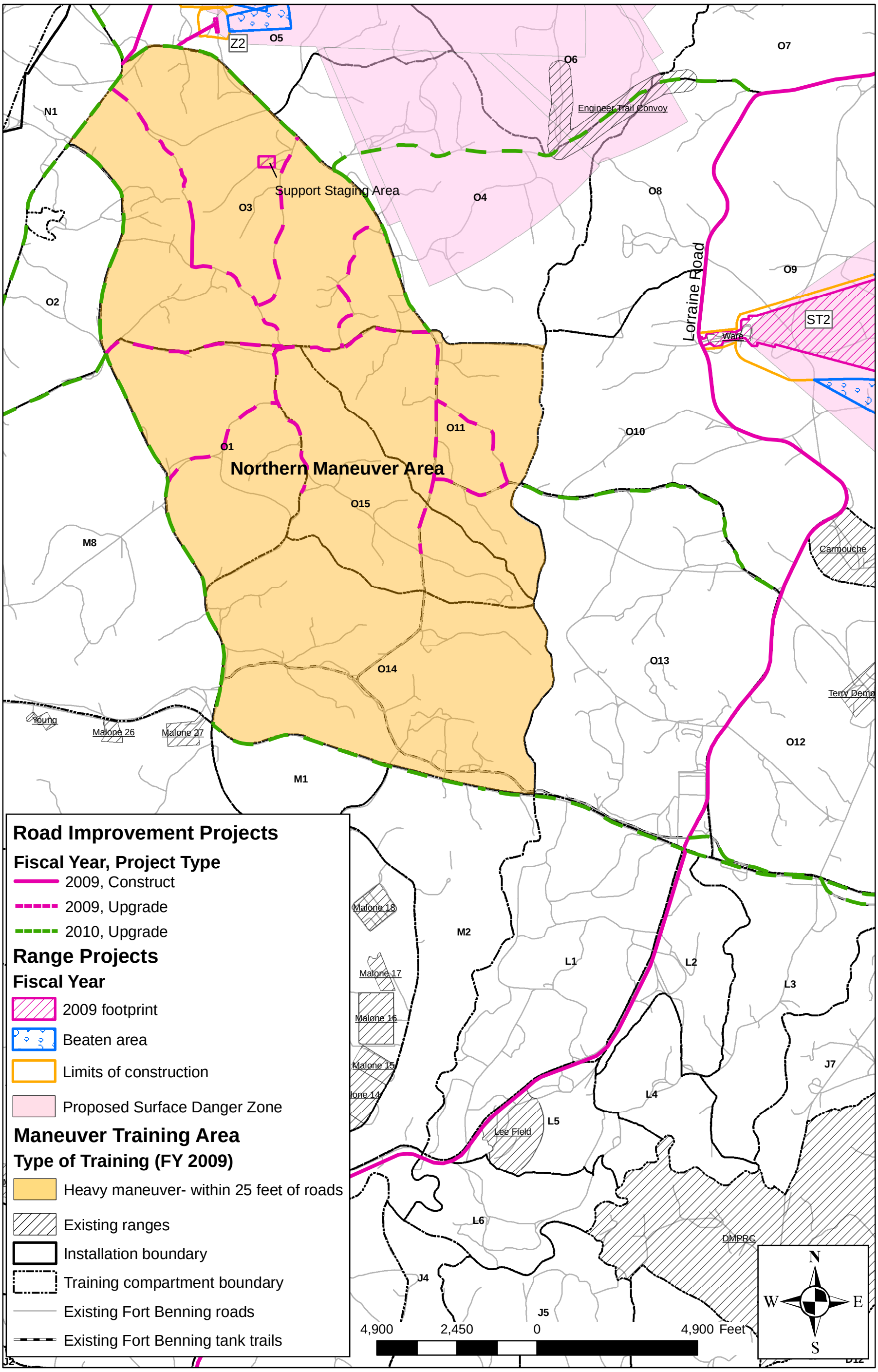

Figure 2-3. Fiscal years 2009-2010 construction activities and operational impacts for proposed projects located in the Northern Ranges for the Maneuver Center of Excellence, **Alternative B**, Fort Benning, Georgia.

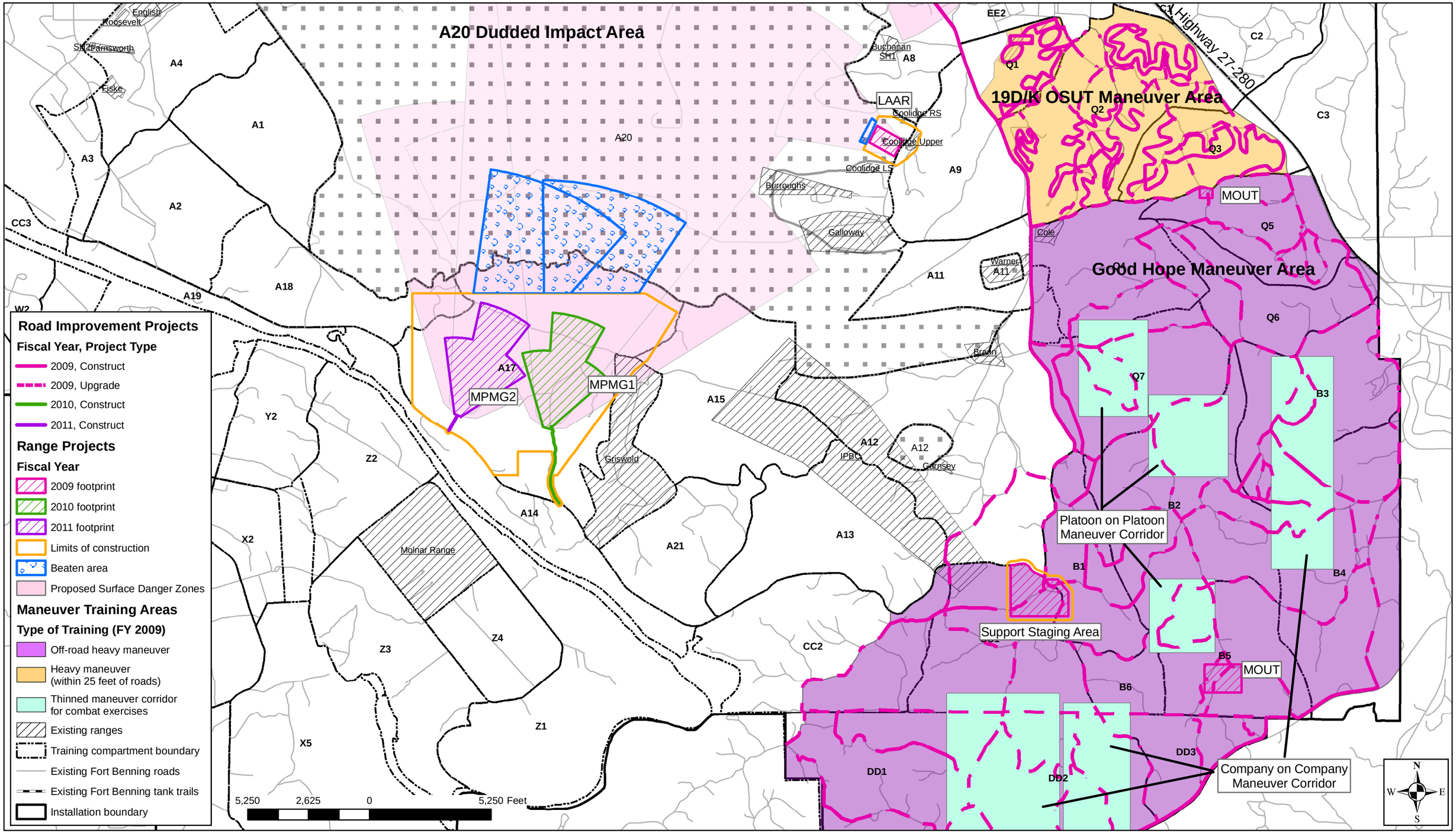

Figure 2-4. Fiscal years 2009-2011 construction activities and operational impacts for proposed projects located in the Southern Ranges for the Maneuver Center of Excellence, **Alternative B**, Fort Benning, Georgia.

would serve as an assembly area for up to 240 Soldiers at a time. Compartment Q5 would be used for dismounted combat orienteering and urban orienteering in conjunction with the Basic Officer Leader Course (BOLC) III being taught in the Good Hope Maneuver Area. An urban site being constructed for the BOLC III course would be utilized for urban combat orienteering (Figure 2-4). Since these are introductory-level courses, all off-road heavy maneuvers would be directed by an instructor and would be within 25 ft. of roads and trails.

Roads: Approximately 19.83 miles of new road construction and 12.38 miles of road upgrades are proposed, totaling 706.58 acres (Table 2-1). Locations of water crossings are less definite, but at least 7 would be needed.

Pine Habitat Loss: Construction projects and off-road heavy maneuver (adjacent to roads) in the 19D/K OSUT Maneuver Area could result in the loss of up to 490.42 acres of pine habitat over time (Table 2-1).

2.2.1.3 Southern Ranges

Two Multi-Purpose Machine Gun ranges MPMG1 (PN 68733) (FY 2010) and MPMG2 (PN 65070) (FY 2011) are a component of Alternative B. The MPMG1 is located in Compartment A17 in the northern portion of the Griswold Range (Figure 2-4). The MPMG2 is located in Compartment A17 west of MPMG1 and south of the A20 Dudded Impact Area (Figure 2-4). The limits of construction for both ranges were combined and were analyzed for FY 2010. The beaten areas were analyzed based on the fiscal year the ranges will become operational (FY 2011 and FY 2012, respectively).. The range footprints would be 238.19 acres and the beaten areas and range access roads would be 970.13 acres (Table 2-1, Figure 2-4).

These ranges would be used by 3rd ID/ 3rd Bde and the USAARMS to train and test individual Soldiers on the skills necessary to identify, engage and defeat stationary infantry targets for day/ night qualification requirements. These ranges would contain stationary infantry and armor targets in 10 firing lanes. Targets would be at 3,280 ft. (1,000 m) and 4,920 ft. (1,500 m) for M60 and 0.50 caliber weapons, respectively, and the footprints would be 100% cleared.

An Automated Combat Pistol/ MP Firearm Qualification Complex (CP/MPQC) (PN 65079) (FY 2010) would be located at the Martin Range, on the northeast side of the A20 Impact Area. The footprint, limits of construction and beaten area would be 1.16, 26.07 and 9.45 acres, respectively (Table 2-1 and Figure 2-4).

3 FEDERALLY PROTECTED SPECIES CONSIDERED

This Biological Assessment evaluates the potential impacts of Alternative B MCOE actions on species listed as Threatened or Endangered, or proposed for such listing, by the USFWS pursuant to Section 7 of the ESA, as amended (Table 3-1) which occur on Fort Benning or have been recorded in the surrounding region. The subject species are relict trillium (*Trillium reliquum*), Michaux's sumac (*Rhus michauxii*), purple bankclimber mussel (*Elliptoideus sloatianus*), shiny-rayed pocketbook (*Lampsilis subangulata*), gulf moccasinshell (*Medionidus penicillatus*), oval pigtoe (*Pleurobema pyriforme*), American alligator, wood stork and the RCW. Also, as of 15 November 2007, there is designated Critical Habitat for the shiny-rayed pocketbook on Fort Benning along Uchee Creek in Russell County, Alabama (AL) (*Federal Register*, 50 CFR Part 17).

The alligator is designated as Similarity of Appearance to a Threatened Taxon throughout its range under provisions of the ESA, as amended (USFWS 1987), therefore potential project impacts to the alligator were not assessed (52 FR 107). Potential impacts to bald eagles (*Haliaeetus leucocephalus*) were also not assessed for the proposed action, as they are no longer protected under the Endangered Species Act (see Section 6 of MCOE Biological Assessment).

Potential impacts to Federal species of concern and State-listed species, including the gopher tortoise (*Gopherus polyphemus*), would be addressed in the Environmental Impact Statement for this project.

In determining the overall effect to Federally-listed species, the Installation considered direct, indirect and cumulative effects. The USFWS Consultation Handbook (USFWS and NMFS 1998) defines **direct effects** as "the direct or immediate effects of the project on the species or its habitat" (e.g., removal of a RCW cavity tree or foraging habitat). **Indirect effects** are "caused by or result from the proposed action, are later in time and are reasonably certain to occur" (e.g., delayed loss of RCW foraging habitat resulting from soil disturbance) (USFWS and NMFS 1998). Potential direct or indirect effects of the Alternative B projects are described below. Cumulative effects are assessed in Section 7 of the MCOE Biological Assessment document.

Project impacts from Alternatives A and B are expected to be identical for relict trillium, Michaux's sumac, purple bankclimber mussel, shiny-rayed pocketbook, gulf moccasinshell, oval

Table 3-1. Federally-listed species potentially occurring in west-central Georgia.

Scientific Name	Common Name	Federal Status	State Status
PLANTS			
Rhus michauxii	Michaux's sumac	E	E
Trillium reliquum	relict trillium	E	E
BIRDS			
Haliaeetus leucocephalus	bald eagle	Delisted August 2007	T
Mycteria americana	wood stork	E	E
Picoides borealis	red-cockaded woodpecker	E	E
REPTILES			
Alligator mississippiensis	American alligator	T/SA	
MUSSELS			
Elliptoideus sloatianus	purple bankclimber	E	E
Lampsilis subangulata	shiny-rayed pocketbook	E, CH	E
Medionidus penicillatus	gulf moccasinshell	E	E
Pleurobema pyriforme	oval pigtoe	E	E

Key: E = Endangered
T = Threatened
T/SA = Threatened/ Similarity of Appearance
CH = Critical Habitat designated on Fort Benning

Sources: USFWS 2008; GA DNR 2008; 15 November 2007 *Federal Register*, 50 CFR Part 17.

pigtoe and the wood stork. In order to minimize repetition, refer to the MCOE BA for the discussion on the biology, status within the proposed action area, survey results and potential project impacts of these species. Only the Biological Determination is listed below for these species. Where Alternative B project impacts differ from the Alternative A Biological Assessment (eagle, American alligator and the RCW), the potential project impacts and the Biological Determination are listed.

See Figure 3-1 for known locations of federally-listed species on Fort Benning and the potential project impacts from Alternative B.

3.1 RELICT TRILLIUM (ENDANGERED)

3.1.1 BIOLOGICAL DETERMINATION

May Affect, Likely to Adversely Affect

3.2 MICHAUX'S SUMAC (ENDANGERED)

3.2.1 BIOLOGICAL DETERMINATION

No Effect

3.3 PURPLE BANKCLIMBER (THREATENED)

3.3.1 BIOLOGICAL DETERMINATION

No Effect

3.4 SHINY-RAYED POCKETBOOK (ENDANGERED)

3.4.1 BIOLOGICAL DETERMINATION

No Effect

3.4.2 BIOLOGICAL DETERMINATION FOR CRITICAL HABITAT

No Effect

3.5 GULF MOCCASINSHELL (ENDANGERED)

3.5.1 BIOLOGICAL DETERMINATION

No Effect

3.6 OVAL PIGTOE (ENDANGERED)

3.6.1 BIOLOGICAL DETERMINATION

No Effect

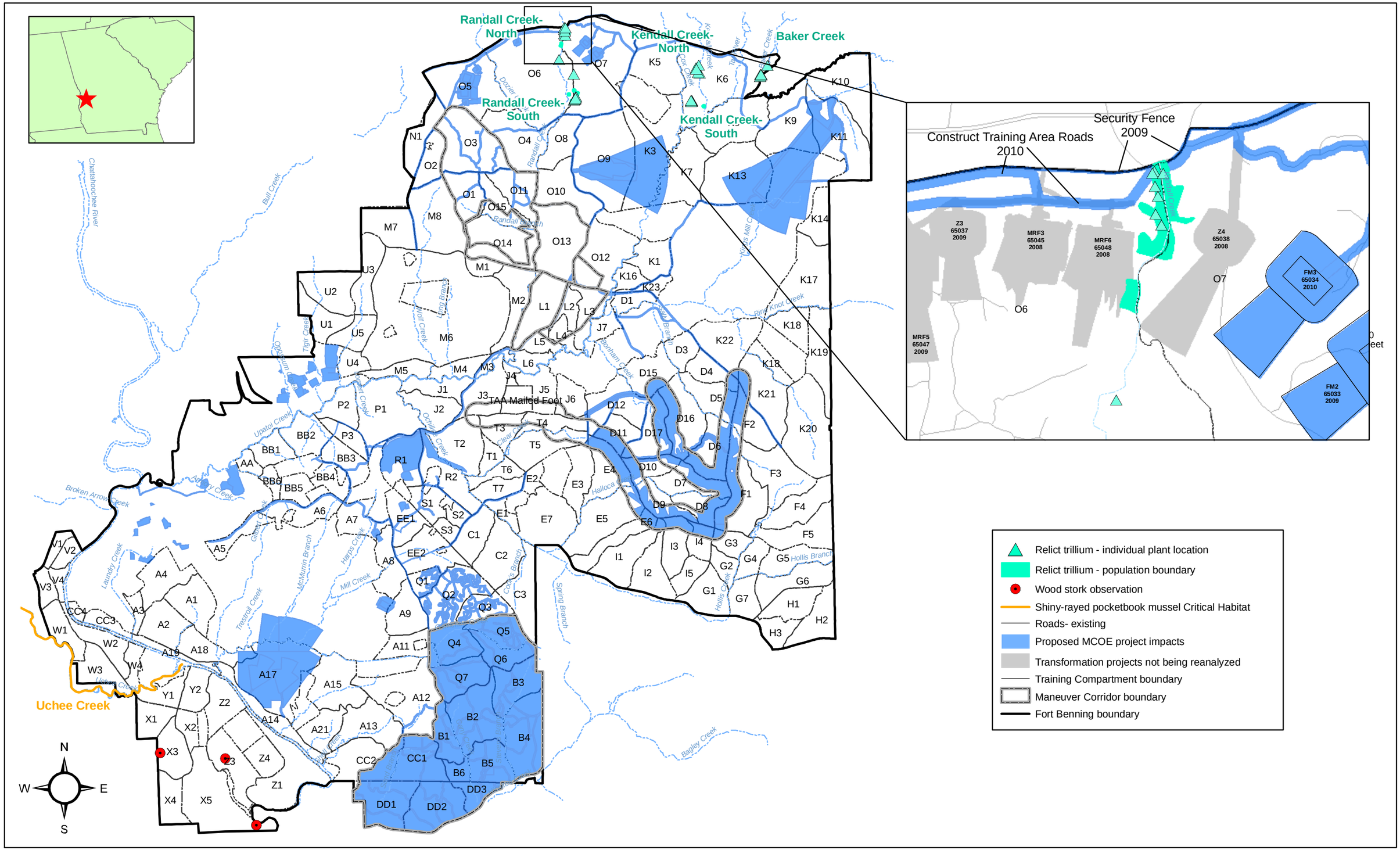

Figure 3-1. Known Federally-listed species locations on Fort Benning and potential project impacts from the proposed Alternative B Maneuver Center of Excellence actions at Fort Benning .

3.7 WOOD STORK (ENDANGERED)

3.7.1 BIOLOGICAL DETERMINATION

No Effect

3.8 RED-COCKADED WOODPECKER (ENDANGERED)

Fort Benning's RCW population is dispersed over most of the Installation, with the exception that there are no active clusters located in the AL portion (Figure 3-2). .

3.8.1 CLUSTER LEVEL ANALYSES

3.8.1.1 <u>Pre- project Cluster Status and Foraging Habitat, Project Impacts and Post- project Foraging Habitat Totals</u>

RCW cavity trees and/ or foraging habitat would be impacted in 124 active and 12 inactive RCW clusters as a result of Alternative B 2009-2012 MCOE projects (Tables 3-2 and 3-3 and Appendices G, H and I). In 2008, 122 of these clusters contained PBGs, 1 contained a solitary male and 1 site was captured (Table 3-4).

FHAs were completed for 123 active clusters (project impacts to 1 active cluster were in non-contiguous habitat and an FHA was not conducted). Pre- project, 35 of the 122 analyzed active clusters did not meet the SMS and 121 clusters did not meet the RS. Data for pre- project cluster status and foraging habitat are presented in Tables 3-2 – 3-4, Figures 3-3 - 3-13 and Appendices H and I.

Impacts of projects are summarized below by the fiscal year of construction initiation. Projects which impact RCW partitions are presented for the 4 cantonment areas (Harmony Church, Kelley Hill, Main Post and Sand Hill), 3 range areas northeast ("North") and southwest ("South") of Hwy. 27 - 280, the Northern Maneuver Area and the Southern Maneuver Area. Data for the following project impacts discussion are presented in Tables 3-2, 3-3, 3-5 – 3-11, Figures 3-3 - 3-13 and Appendices H and I.

Fifty-eight of the 123 active RCW clusters did not meet the SMS post- project and would be directly "taken" by the Alternative B Transformation projects. Forty clusters would be "taken" by loss of foraging habitat only, 18 clusters would be taken by both loss of foraging habitat and cavity trees. One additional cluster would be taken only as a result of cavity tree removals. One hundred and twenty-two clusters did not meet the RS post- project.

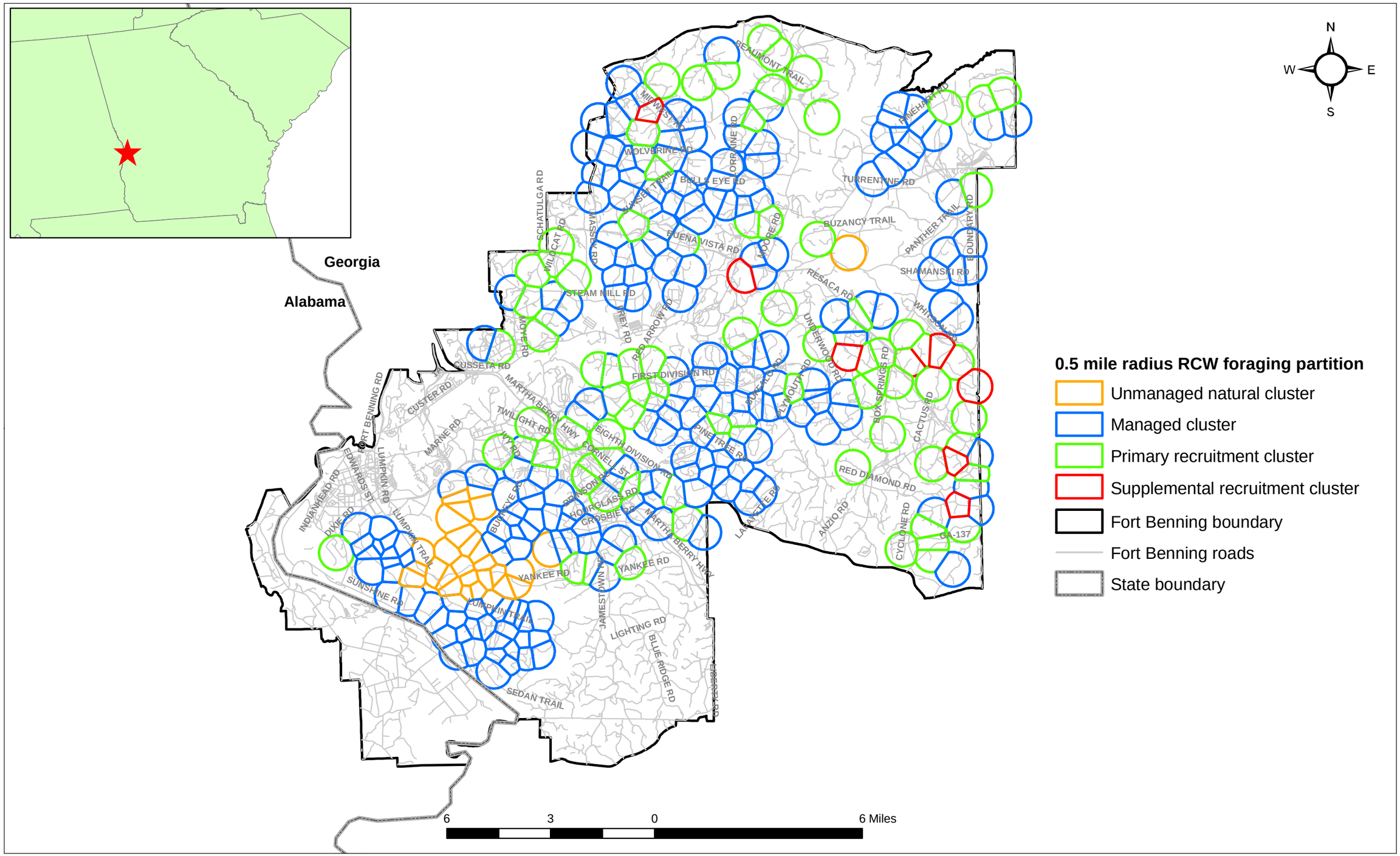

Figure 3-2. Distribution of red-cockaded woodpecker (RCW) clusters including unmanaged and managed natural RCW clusters and primary and supplemental RCW recruitment clusters, Fort Benning, Georgia and Alabama.

Table 3-2. Red-cockaded woodpecker foraging habitat data using the **Standard for Managed Stability** (USFWS 2003a) for all partitions impacted by **Alternative B** of the proposed Fort Benning Maneuver Center of Excellence projects, Chattahoochee and Muscogee Counties, Georgia.

	Pre- Project Foraging Habitat Totals									Project Removals							Post- Project Foraging Habitat Totals										
Cluster	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Forested Acreage (within A20 Impact Area)	Future Potential Acreage	Future Potential BA	Suitable, Potentially Suitable and Forested Acreage	Suitable + Potentially Suitable BA	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Forested Acreage (within A20 Impact Area)	Future Potential Acreage	Future Potential BA	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Forested Acreage (within A20 Impact Area) Removed	Future Potential Acreage	Future Potential BA	Total Suitable, Potentially Suitable and Forested Acreage	Total Suitable + Potentially Suitable BA	Total Manageable Acres	Deficient Pre-project?	Deficient Post-project?
A06-01	153.64	7,067.44	0.00	0.00	35.23	33.72	734.22	**188.87**	**7,067.44**	1.79	82.34	0.00	0.00	0.00	0.63	14.43	151.85	6,985.10	0.00	0.00	35.23	33.09	719.79	**187.08**	**6,985.10**	**220.17**	**N**	**N**
A08-03	97.79	4,009.39	0.00	0.00	17.33	2.00	51.00	**115.13**	**4,009.39**	0.00	0.00	0.00	0.00	5.74	0.00	0.00	97.79	4,009.39	0.00	0.00	11.59	2.00	51.00	**109.39**	**4,009.39**	**111.39**	**N**	**N**
A08-04*	27.11	1,111.51	0.00	0.00	154.79	0.00	0.00	**181.90**	**1,111.51**	0.00	0.00	0.00	0.00	6.96	0.00	0.00	27.11	1,111.51	0.00	0.00	147.83	0.00	0.00	**174.94**	**1,111.51**	**174.94**	**N**	**N**
A20-04	20.97	1,059.61	74.16	3,424.07	155.36	62.22	1,545.99	**250.49**	**4,483.68**	2.50	126.33	3.97	194.53	0.00	1.91	49.66	18.47	933.28	70.19	3,229.54	155.36	60.31	1,496.33	**244.02**	**4,162.82**	**304.33**	**N**	**N**

	Pre- Project Foraging Habitat Totals								Project Removals						Post- Project Foraging Habitat Totals												
Cluster	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA	Suitable + Potentially Suitable Acreage	Suitable + Potentially Suitable BA	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	805.00	Non-contiguous Habitat Acreage	Non-contiguous Habitat BA	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA	Total Suitable + Potentially Suitable Acreage	Total Suitable + Potentially Suitable BA	Total Manageable Acres	Deficient Pre-project?	Deficient Post-project?
A07-01	35.59	1,313.44	0.00	0.00	147.44	4,009.86	**35.59**	**1,313.44**	2.96	100.64	0.00	0.00	9.42	259.67	0.00	0.00	32.63	1,212.80	0.00	0.00	138.02	3,750.19	**32.63**	**1,212.80**	**170.65**	**Y**	**Y**
A08-01	113.80	4,648.57	45.47	1,709.06	27.96	377.04	**159.27**	**6,357.63**	3.26	130.74	1.16	44.08	1.83	33.60	0.00	0.00	110.54	4,517.83	44.31	1,664.98	26.13	343.44	**154.85**	**6,182.81**	**180.98**	**N**	**N**
A08-02a	81.50	2,895.42	6.85	294.55	0.00	0.00	**88.35**	**3,189.97**	1.80	63.00	1.29	55.47	0.00	0.00	0.00	0.00	79.70	2,832.42	5.56	239.08	0.00	0.00	**85.26**	**3,071.50**	**85.26**	**N**	**N**
A09-03R	11.89	419.17	108.07	3,526.72	8.40	0.00	**119.96**	**3,945.89**	7.25	257.50	6.03	199.15	1.49	0.00	0.00	0.00	4.64	161.67	102.04	3,327.57	6.91	0.00	**106.68**	**3,489.24**	**113.59**	**N**	**N**
A09-04R**	78.15	2,563.11	4.29	130.85	121.29	2,680.81	**82.44**	**2,693.96**	0.00	0.00	0.00	0.00	17.11	427.70	0.00	0.00	78.15	2,563.11	4.29	130.85	104.18	2,253.11	**82.44**	**2,693.96**	**186.62**	**Y**	**Y**
A09-05	111.60	4,190.16	13.35	405.51	50.12	1,206.58	**124.95**	**4,595.67**	3.83	140.60	0.15	4.50	0.20	5.00	0.00	0.00	107.77	4,049.56	13.20	401.01	49.92	1,201.58	**120.97**	**4,450.57**	**170.89**	**N**	**N**
A14-03R	64.56	3,087.58	2.88	95.99	31.61	1,146.84	**67.44**	**3,183.57**	38.20	1,960.05	0.00	0.00	0.00	0.00	0.00	0.00	26.36	1,127.53	2.88	95.99	31.61	1,146.84	**29.24**	**1,223.52**	**60.85**	**Y**	**Y**
A17-01	85.96	4,545.01	32.01	1,509.58	0.00	0.00	**117.97**	**6,054.59**	85.96	4,545.01	32.01	1,509.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**	**0.00**	**N**	**Y**
A17-02	62.70	3,298.06	0.00	0.00	58.72	428.19	**62.70**	**3,298.06**	60.44	3,187.32	0.00	0.00	56.67	407.69	0.00	0.00	2.26	110.74	0.00	0.00	2.05	20.50	**2.26**	**110.74**	**4.31**	**Y**	**Y**
A17-03	88.10	4,660.04	20.17	1,008.50	0.00	0.00	**108.27**	**5,668.54**	88.10	4,660.04	20.17	1,008.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**	**0.00**	**N**	**Y**
A17-04	140.02	7,150.66	71.92	4,049.31	3.98	3.77	**211.94**	**11,199.97**	59.77	3,292.20	11.12	553.31	0.00	0.00	0.00	0.00	80.25	3,858.46	60.80	3,496.00	3.98	3.77	**141.05**	**7,354.46**	**145.03**	**N**	**N**
A17-05	100.35	4,311.47	10.38	550.14	2.92	17.52	**110.73**	**4,861.61**	81.36	3,572.30	10.38	550.14	1.59	9.54	0.00	0.00	18.99	739.17	0.00	0.00	1.33	7.98	**18.99**	**739.17**	**20.32**	**N**	**Y**
A17-06	96.66	4,321.54	0.00	0.00	24.01	98.00	**96.66**	**4,321.54**	96.51	4,316.07	0.00	0.00	0.16	3.64	0.00	0.00	0.15	5.47	0.00	0.00	23.85	94.36	**0.15**	**5.47**	**24.00**	**N**	**Y**
A17-07	74.21	3,339.45	18.70	960.20	0.00	0.00	**92.91**	**4,299.65**	73.73	3,317.85	18.70	960.20	0.00	0.00	0.00	0.00	0.48	21.60	0.00	0.00	0.00	0.00	**0.48**	**21.60**	**0.48**	**N**	**Y**
A17-08	111.84	7,119.92	0.00	0.00	18.73	106.10	**111.84**	**7,119.92**	111.84	7,119.92	0.00	0.00	18.73	106.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**	**0.00**	**N**	**Y**
A17-11R	123.32	8,139.12	0.00	0.00	0.35	1.93	**123.32**	**8,139.12**	106.53	7,030.98	0.00	0.00	0.35	1.93	0.00	0.00	16.79	1,108.14	0.00	0.00	0.00	0.00	**16.79**	**1,108.14**	**16.79**	**N**	**Y**
A17-12R	14.81	977.46	43.67	1,593.96	62.53	1,486.81	**58.48**	**2,571.42**	4.75	313.50	0.00	0.00	26.47	684.53	0.00	0.00	10.06	663.96	43.67	1,593.96	36.06	802.28	**53.73**	**2,257.92**	**89.79**	**Y**	**Y**
A17-13	80.36	4,178.72	24.42	1,221.00	0.00	0.00	**104.78**	**5,399.72**	80.36	4,178.72	24.42	1,221.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**	**0.00**	**N**	**Y**
A17-14a	66.47	3,542.07	20.18	1,130.39	15.92	95.52	**86.65**	**4,672.46**	66.47	3,542.07	20.18	1,130.39	11.83	70.98	0.00	0.00	0.00	0.00	0.00	0.00	4.09	24.54	**0.00**	**0.00**	**4.09**	**N**	**Y**
A17-14b	82.91	4,636.34	0.00	0.00	6.01	153.02	**82.91**	**4,636.34**	56.36	3,161.91	0.00	0.00	0.64	3.84	0.00	0.00	26.55	1,474.43	0.00	0.00	5.37	149.18	**26.55**	**1,474.43**	**31.92**	**N**	**Y**
A20-06	121.55	4,441.49	0.00	0.00	50.97	1,402.06	**121.55**	**4,441.49**	20.46	760.78	0.00	0.00	9.03	230.02	0.00	0.00	101.09	3,680.71	0.00	0.00	41.94	1,172.04	**101.09**	**3,680.71**	**143.03**	**N**	**N**
BB03-01R	27.38	1,017.39	12.96	637.49	100.60	1,786.60	**40.34**	**1,654.88**	1.37	52.60	0.65	30.65	8.43	186.63	0.00	0.00	26.01	964.79	12.31	606.84	92.17	1,599.97	**38.32**	**1,571.63**	**130.49**	**Y**	**Y**
BB04-01R	102.51	4,134.91	4.02	291.37	37.28	809.54	**106.53**	**4,426.28**	7.48	342.33	0.00	0.00	4.03	71.86	7.34	337.64	87.69	3,454.94	4.02	291.37	33.25	737.68	**91.71**	**3,746.31**	**124.96**	**N**	**N**
BB05-01R	87.25	3,424.61	101.41	3,976.85	55.34	1,308.38	**188.66**	**7,401.46**	12.62	580.52	0.59	24.49	0.53	11.00	0.00	0.00	74.63	2,844.09	100.82	3,952.36	54.81	1,297.38	**175.45**	**6,796.45**	**230.26**	**N**	**N**
C01-02	0.42	19.95	167.28	6,711.82	18.35	0.00	**167.70**	**6,731.77**	0.00	0.00	2.34	78.81	0.00	0.00	0.00	0.00	0.42	19.95	164.94	6,633.01	18.35	0.00	**165.36**	**6,652.96**	**183.71**	**N**	**N**
C01-03	18.97	982.80	71.81	2,841.78	41.32	676.98	**90.78**	**3,824.58**	1.15	70.15	3.81	161.10	3.47	93.14	0.00	0.00	17.82	912.65	68.00	2,680.68	37.85	583.84	**85.82**	**3,593.33**	**123.67**	**N**	**N**
C01-06	27.04	1,212.32	75.53	3,105.49	19.38	75.90	**102.57**	**4,317.81**	0.00	0.00	9.44	383.27	1.07	30.50	0.00	0.00	27.04	1,212.32	66.09	2,722.22	18.31	45.40	**93.13**	**3,934.54**	**111.44**	**N**	**N**
C02-02	54.25	2,079.29	158.04	6,171.56	80.72	1,000.93	**212.29**	**8,250.85**	16.56	591.28	0.00	0.00	11.26	27.05	0.00	0.00	37.69	1,488.01	158.04	6,171.56	69.46	973.88	**195.73**	**8,633.45**	**265.19**	**N**	**N**
D05-02R	125.55	4,943.82	0.00	0.00	38.87	853.42	**125.55**	**4,943.82**	34.50	1,526.89	0.00	0.00	26.88	591.36	0.00	0.00	91.05	3,416.93	0.00	0.00	11.99	262.06	**91.05**	**3,416.93**	**103.04**	**N**	**N**
D05-04R	243.87	9,780.13	0.00	0.00	46.85	502.91	**243.87**	**9,780.13**	121.72	5,032.87	0.00	0.00	28.91	376.76	0.00	0.00	122.15	4,747.26	0.00	0.00	17.94	126.15	**122.15**	**4,747.26**	**140.09**	**N**	**N**
D06-01R	63.12	1,955.13	0.00	0.00	92.27	1,490.97	**63.12**	**1,955.13**	0.03	0.95	0.00	0.00	39.39	492.29	13.94	135.64	63.09	1,954.18	0.00	0.00	38.94	863.04	**63.09**	**1,954.18**	**102.03**	**Y**	**Y**
D08-01R	86.01	3,154.70	0.00	0.00	131.25	1,317.27	**86.01**	**3,154.70**	46.40	1,924.82	0.00	0.00	39.54	746.83	0.00	0.00	39.61	1,229.88	0.00	0.00	91.71	570.44	**39.61**	**1,229.88**	**131.32**	**N**	**Y**
D10-01	48.18	1,605.05	0.00	0.00	105.75	929.93	**48.18**	**1,605.05**	2.50	87.75	0.00	0.00	15.39	73.34	4.97	115.13	45.68	1,517.30	0.00	0.00	85.39	741.46	**45.68**	**1,517.30**	**131.07**	**Y**	**Y**
D11-01	94.01	3,502.41	0.00	0.00	49.69	104.47	**94.01**	**3,502.41**	49.86	1,851.03	0.00	0.00	34.63	97.20	0.00	0.00	44.15	1,651.38	0.00	0.00	15.06	7.27	**44.15**	**1,651.38**	**59.21**	**N**	**Y**
D11-02	104.88	3,871.19	0.00	0.00	54.91	1,277.31	**104.88**	**3,871.19**	88.91	3,296.06	0.00	0.00	50.54	1,166.10	15.94	572.20	0.15	5.77	0.00	0.00	4.25	108.37	**0.15**	**5.77**	**4.40**	**N**	**Y**
D12-01	106.88	4,975.59	0.00	0.00	111.76	2,011.29	**106.88**	**4,975.59**	13.87	611.95	0.00	0.00	13.06	200.29	0.00	0.00	93.01	4,363.64	0.00	0.00	98.70	1,811.00	**93.01**	**4,363.64**	**191.71**	**N**	**N**
D16-01	38.63	1,494.10	18.51	620.09	167.49	2,506.48	**57.14**	**2,114.19**	0.00	0.00	18.50	619.75	29.40	297.22	0.00	0.00	38.63	1,494.10	0.01	0.34	138.09	2,209.26	**38.64**	**1,494.44**	**176.73**	**Y**	**Y**
D16-02	16.55	575.61	0.00	0.00	209.69	3,423.84	**16.55**	**575.61**	16.55	575.61	0.00	0.00	159.06	2,577.34	24.03	497.47	0.00	0.00	0.00	0.00	26.60	349.03	**0.00**	**0.00**	**26.60**	**Y**	**Y**
D17-01	134.03	4,844.96	10.52	320.86	160.44	1,655.40	**144.55**	**5,165.82**	59.73	2,264.17	0.00	0.00	34.54	615.61	24.28	578.42	74.30	2,580.79	10.52	320.86	101.62	461.37	**84.82**	**2,901.65**	**186.44**	**N**	**Y**
D17-03	114.09	4,242.34	0.00	0.00	89.62	1,782.06	**114.09**	**4,242.34**	62.30	2,321.38	0.00	0.00	52.41	1,047.54	0.00	0.00	51.79	1,920.96	0.00	0.00	37.21	734.52	**51.79**	**1,920.96**	**89.00**	**N**	**Y**
D17-04R	90.79	3,545.37	0.00	0.00	101.80	1,865.55	**90.79**	**3,545.37**	43.23	1,617.86	0.00	0.00	54.45	1,287.53	0.00	0.00	47.56	1,927.51	0.00	0.00	47.35	578.02	**47.56**	**1,927.51**	**94.91**	**N**	**Y**
E02-01	89.39	2,821.35	19.08	576.34	73.24	395.65	**108.47**	**3,397.69**	1.27	39.37	0.69	22.23	0.97	9.81	0.00	0.00	88.12	2,781.98	18.38	554.11	72.27	385.84	**106.50**	**3,336.09**	**178.77**	**N**	**N**
E04-01	115.00	4,509.48	0.00	0.00	52.36	1,259.72	**115.00**	**4,509.48**	49.27	1,953.72	0.00	0.00	10.53	349.85	0.00	0.00	65.73	2,555.76	0.00	0.00	41.83	909.87	**65.73**	**2,555.76**	**107.56**	**N**	**Y**
F02-01R	53.68	2,336.44	0.00	0.00	136.76	2,646.83	**53.68**	**2,336.44**	41.86	1,808.38	0.00	0.00	87.82	1,806.05	0.00	0.00	11.82	528.06	0.00	0.00	48.94	840.78	**11.82**	**528.06**	**60.76**	**Y**	**Y**
HCC-08R	46.77	1,556.16	50.04	1,573.41	92.09	2,398.11	**96.81**	**3,129.57**	0.61	26.23	0.00	0.00	0.00	0.00	0.00	0.00	46.16	1,529.93	50.04	1,573.41	92.09	2,398.11	**96.20**	**3,103.34**	**188.29**	**N**	**N**
HCC-10R	122.28	4,302.80	11.74	457.11	11.07	204.00	**134.02**	**4,759.91**	17.14	607.79	1.70	58.54	0.29	3.90	2.03	75.09	103.11	3,619.92	10.04	398.57	10.78	200.10	**113.15**	**4,018.49**	**123.93**	**N**	**N**
HCC-11R	11.73	385.31	1.05	56.00	196.06	4,659.29	**12.78**	**441.31**	0.93	36.74	0.00	0.00	13.16	333.88	1.23	47.11	9.57	301.46	1.05	56.00	182.90	4,325.41	**10.62**	**357.46**	**193.52**	**Y**	**Y**
J01-02R	50.92	2,215.31	0.00	0.00	147.86	1,213.96	**50.92**	**2,215.31**	2.88	229.97	0.00	0.00	3.48	0.00	0.00	0.00	48.04	1,985.34	0.00	0.00	144.38	1,213.96	**48.04**	**1,985.34**	**192.42**	**Y**	**Y**
J02-02R	10.81	459.43	7.23	271.13	122.52	2,792.57	**18.04**	**730.56**	4.69	199.33	0.00	0.00	11.68	301.02	0.00	0.00	6.12	260.10	7.23	271.13	110.84	2,491.55	**13.35**	**531.23**	**124.19**	**Y**	**Y**
J06-03	215.01	7,751.93	0.13	4.04	73.30	2,012.96	**215.14**	**7,755.97**	36.99	1,413.45	0.00	0.00	7.30	215.35	0.00	0.00	178.02	6,338.48	0.13	4.04	66.00	1,797.61	**178.15**	**6,342.52**	**244.15**	**N**	**N**
K02-01	0.00	0.00	10.65	330.41	245.71	5,602.37	**10.65**	**330.41**	0.00	0.00	0.48	15.12	170.65	3,918.52	12.69	356.70	0.00	0.00	0.04	1.26	72.50	1,641.18	**0.04**	**1.26**	**72.54**	**Y**	**Y**
K08-03	97.98	3,561.55	0.00	0.00	28.93	0.00	**97.98**	**3,561.55**	12.50	434.05	0.00	0.00	0.00	0.00	0.00	0.00	85.48	3,127.50	0.00	0.00	28.93	0.00	**85.48**	**3,127.50**	**114.41**	**N**	**N**
K08-04	180.60	6,661.97	0.00	0.00	11.79	129.66	**180.60**	**6,661.97**	13.78	525.63	0.00	0.00	1.36	40.12	37.59	1,086.30	136.31	5,139.58	0.00	0.00	3.35	0.00	**136.31**	**5,139.58**	**139.66**	**N**	**N**
K09-01	89.84	3,810.40	0.44	22.00	59.02	1,672.01	**90.28**	**3,832.40**	1.20	44.80	0.00	0.00	2.23	65.79	0.00	0.00	88.64	3,765.60	0.44	22.00	56.79	1,606.22	**89.08**	**3,787.60**	**145.87**	**N**	**N**
K09-02R	124.95	4,621.83	2.04	102.00	26.19	478.76	**126.99**	**4,723.83**	19.90	743.38	0.00	0.00	24.47	433.62	0.00	0.00	105.05	3,878.45	2.04	102.00	1.72	45.14	**107.09**	**3,980.45**	**108.81**	**N**	**N**
K09-03R	144.42	5,160.01	44.32	2,216.00	58.23	644.11	**188.74**	**7,376.01**	9.23	315.13	0.61	30.50	7.38	108.28	0.00	0.00	135.19	4,844.88	43.71	2,185.50	50.85	535.83	**178.90**	**7,030.38**	**229.75**	**N**	**N**
K11-02	219.20	8,250.23	5.12	174.08	58.35	386.90	**224.32**	**8,424.31**	59.34	2,347.30	0.00	0.00	14.32	258.08	0.00	0.00	159.86	5,902.93	5.12	174.08	44.03	128.82	**164.98**	**6,077.01**	**209.01**	**N**	**N**
K11-04R	46.50	1,730.88	0.00	0.00	129.93	1,966.25	**46.50**	**1,730.88**	9.29	381.74	0.00	0.00	70.48	1,151.25	0.00	0.00	37.21	1,349.14	0.00	0.00	59.45	815.00	**37.21**	**1,349.14**	**96.66**	**Y**	**Y**

***Cluster A08-04R is not considered a "take" in spite of being deficient in basal area because there is enough forested habitat of suitable age within the A20 Dudded Impact Area to meet the minimum SMS acreage standard.**

****Cluster A09-04R is deficient pre-project but is not considered a "take" because no suitable or potentially suitable habitat will be removed as a result of project impacts.**

Table 3-2 (cont). Red-cockaded woodpecker foraging habitat data using the **Standard for Managed Stability** (USFWS 2003a) for all partitions impacted by **Alternative B** of the proposed Fort Benning Maneuver Center of Excellence projects, Chattahoochee and Muscogee Counties, Georgia.

	Pre- project Foraging Habitat Totals								Project Removals						Post- Project Foraging Habitat Totals												
Cluster	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA	Suitable + Potentially Suitable Acreage	Suitable + Potentially Suitable BA	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA	Non-contiguous Habitat Acreage	Non-contiguous Habitat BA	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA	Total Suitable + Potentially Suitable Acreage	Total Suitable + Potentially Suitable BA	Total Manageable Acres	Deficient Pre-project?	Deficient Post-project?
K12-01	137.11	5,735.15	0.00	0.00	65.27	397.22	**137.11**	**5,735.15**	45.82	1,962.37	0.00	0.00	0.00	0.00	0.00	0.00	91.29	3,772.78	0.00	0.00	65.27	397.22	**91.29**	**3,772.78**	**156.56**	**N**	**N**
K13-02	92.47	4,397.26	7.51	300.40	52.66	1,421.84	**99.98**	**4,697.66**	58.38	2,426.42	0.00	0.00	18.93	490.28	0.00	0.00	34.09	1,970.84	7.51	300.40	33.73	931.56	**41.60**	**2,271.24**	**75.33**	**N**	**Y**
K13-04	54.07	1,779.47	40.74	1,885.00	84.04	720.16	**94.81**	**3,664.47**	37.00	1,207.66	24.90	1,132.95	31.87	0.00	0.00	0.00	17.07	571.81	15.84	752.05	52.17	720.16	**32.91**	**1,323.86**	**85.08**	**N**	**Y**
K13-05R	55.07	2,538.46	0.00	0.00	54.29	1,062.07	**55.07**	**2,538.46**	12.77	519.81	0.00	0.00	4.51	26.00	0.00	0.00	42.30	2,018.65	0.00	0.00	49.78	1,036.07	**42.30**	**2,018.65**	**92.08**	**Y**	**Y**
K13-06	33.75	1,171.79	129.48	5,483.35	46.70	0.00	**163.23**	**6,655.14**	0.00	0.00	0.63	22.40	4.65	0.00	0.00	0.00	33.75	1,171.79	128.85	5,460.95	42.05	0.00	**162.60**	**6,632.74**	**204.65**	**N**	**N**
K21-02R	175.02	7,509.92	0.00	0.00	33.15	780.02	**175.02**	**7,509.92**	32.19	1,285.04	0.00	0.00	4.66	109.65	0.00	0.00	142.83	6,224.88	0.00	0.00	28.49	670.37	**142.83**	**6,224.88**	**171.32**	**N**	**N**
K21-05R	245.38	10,454.52	0.00	0.00	27.39	321.50	**245.38**	**10,454.52**	68.78	2,770.53	0.00	0.00	0.03	0.57	0.00	0.00	176.60	7,683.99	0.00	0.00	27.36	320.93	**176.60**	**7,683.99**	**203.96**	**N**	**N**
KPR-01	82.03	4,519.79	67.75	2,869.86	27.50	501.11	**149.78**	**7,389.65**	10.63	610.63	7.80	320.74	3.22	83.19	0.00	0.00	71.40	3,909.16	59.95	2,549.12	24.28	417.92	**131.35**	**6,458.28**	**155.63**	**N**	**N**
LO2-02R	117.31	4,613.67	24.17	1,052.86	112.06	2,206.05	**141.48**	**5,666.53**	14.19	547.82	3.12	93.60	13.99	322.95	0.00	0.00	103.12	4,065.85	21.05	959.26	98.07	1,883.10	**124.17**	**5,025.11**	**222.24**	**N**	**N**
L03-01	41.59	1,966.83	8.90	399.76	57.40	1,140.23	**50.49**	**2,366.59**	2.64	84.52	2.02	75.75	8.74	205.39	0.00	0.00	38.95	1,882.31	6.88	324.01	48.66	934.84	**45.83**	**2,206.32**	**94.49**	**Y**	**Y**
M01-01	48.31	2,133.46	0.00	0.00	65.14	1,323.19	**48.31**	**2,133.46**	1.69	75.84	0.00	0.00	2.10	51.41	0.00	0.00	46.62	2,057.62	0.00	0.00	63.04	1,271.78	**46.62**	**2,057.62**	**109.66**	**Y**	**Y**
M08-01	115.13	5,256.85	19.96	758.48	133.14	3,323.74	**135.09**	**6,015.33**	12.05	514.03	0.00	0.00	6.30	140.14	0.00	0.00	103.08	4,742.82	19.96	758.48	126.84	3,183.60	**123.04**	**5,501.30**	**249.88**	**N**	**N**
M08-02a	123.64	5,686.47	17.25	830.68	17.55	286.45	**140.89**	**6,517.15**	8.66	409.12	0.50	26.75	0.00	0.00	0.00	0.00	114.98	5,277.35	16.75	803.93	17.55	286.45	**131.73**	**6,081.28**	**149.28**	**N**	**N**
M08-02b	75.99	3,351.79	10.35	374.84	30.41	663.06	**86.34**	**3,726.63**	9.36	413.14	0.00	0.00	5.56	135.89	0.00	0.00	66.63	2,938.65	10.35	374.84	24.85	527.17	**76.98**	**3,313.49**	**101.83**	**N**	**N**
M08-04R	52.64	1,894.52	42.57	1,383.53	100.17	2,140.82	**95.21**	**3,278.05**	2.63	89.06	0.00	0.00	6.24	102.85	0.00	0.00	50.01	1,805.46	42.57	1,383.53	93.93	2,037.97	**92.58**	**3,188.99**	**186.51**	**N**	**N**
M08-05R	94.72	4,240.06	84.06	3,652.10	73.04	1,182.08	**178.78**	**7,892.16**	0.26	9.62	1.84	57.33	5.98	103.29	0.00	0.00	94.46	4,230.44	82.22	3,594.77	67.06	1,078.79	**176.68**	**7,825.21**	**243.74**	**N**	**N**
N01-02	65.26	2,522.32	29.33	1,339.39	33.59	351.12	**94.59**	**3,861.71**	0.98	38.22	2.36	98.23	1.02	20.40	0.00	0.00	64.28	2,484.10	26.97	1,241.16	32.57	330.72	**91.25**	**3,725.26**	**123.82**	**N**	**N**
O01-01	110.72	4,120.49	28.35	935.95	9.25	47.78	**139.07**	**5,056.44**	2.31	95.33	0.00	0.00	0.00	0.00	0.00	0.00	108.41	4,025.16	28.35	935.95	9.25	47.78	**136.76**	**4,961.11**	**146.01**	**N**	**N**
O01-02	24.05	877.11	12.16	498.56	112.46	2,236.35	**36.21**	**1,375.67**	4.45	164.65	0.00	0.00	8.60	175.17	0.00	0.00	19.60	712.46	12.16	498.56	103.86	2,061.18	**31.76**	**1,211.02**	**135.62**	**Y**	**Y**
O01-03	86.23	3,768.47	23.52	1,079.14	40.74	745.27	**109.75**	**4,847.61**	5.09	244.03	4.34	197.20	13.75	228.79	0.00	0.00	81.14	3,524.44	19.18	881.94	26.99	516.48	**100.32**	**4,406.38**	**127.31**	**N**	**N**
O01-04R	48.70	2,058.33	72.87	2,922.05	47.54	819.75	**121.57**	**4,980.38**	6.52	254.43	6.30	244.18	9.50	180.56	0.00	0.00	42.18	1,803.90	66.57	2,677.87	38.04	639.19	**108.75**	**4,481.77**	**146.79**	**N**	**N**
O02-01R	54.69	2,430.15	61.30	2,560.76	103.56	1,889.73	**115.99**	**4,990.91**	7.82	315.70	1.82	70.06	8.43	74.16	0.00	0.00	46.87	2,114.45	59.48	2,490.70	95.13	1,815.57	**106.35**	**4,605.15**	**201.48**	**N**	**N**
O03-01	16.68	669.02	29.59	1,063.85	47.03	1,109.74	**46.27**	**1,732.87**	1.00	40.00	4.74	167.60	5.54	124.30	0.00	0.00	15.68	629.02	24.85	896.25	41.49	985.44	**40.53**	**1,525.27**	**82.02**	**Y**	**Y**
O03-02	116.42	4,712.84	0.00	0.00	47.04	648.55	**116.42**	**4,712.84**	20.77	877.68	0.00	0.00	11.38	197.92	0.00	0.00	95.65	3,835.16	0.00	0.00	35.66	450.63	**95.65**	**3,835.16**	**131.31**	**N**	**N**
O03-03	45.82	2,007.64	0.00	0.00	116.60	1,272.13	**45.82**	**2,007.64**	8.55	397.95	0.00	0.00	15.15	165.20	0.00	0.00	37.27	1,609.69	0.00	0.00	101.45	1,106.93	**37.27**	**1,609.69**	**138.72**	**Y**	**Y**
O03-04	30.00	1,037.71	6.36	254.34	156.50	2,012.23	**36.36**	**1,292.05**	5.26	176.55	0.00	0.00	22.44	285.29	0.00	0.00	24.74	861.16	6.36	254.34	134.06	1,726.94	**31.10**	**1,115.50**	**165.16**	**Y**	**Y**
O03-05	152.93	6,474.35	43.54	1,676.66	71.71	570.39	**196.47**	**8,151.01**	12.74	494.48	4.93	194.74	8.03	67.70	0.00	0.00	140.19	5,979.87	38.61	1,481.92	63.68	502.69	**178.80**	**7,461.79**	**242.48**	**N**	**N**
O03-06R	122.32	4,283.33	0.00	0.00	143.78	3,469.15	**122.32**	**4,283.33**	22.34	763.99	0.00	0.00	12.69	355.60	0.00	0.00	99.98	3,519.34	0.00	0.00	131.09	3,113.55	**99.98**	**3,519.34**	**231.07**	**N**	**N**
O03-07	122.38	5,086.28	0.00	0.00	56.01	507.19	**122.38**	**5,086.28**	10.42	415.76	0.00	0.00	0.37	0.00	0.00	0.00	111.96	4,670.52	0.00	0.00	55.64	507.19	**111.96**	**4,670.52**	**167.60**	**N**	**N**
O04-01	0.00	0.00	0.00	0.00	73.17	1,778.52	**0.00**	**0.00**	0.00	0.00	0.00	0.00	14.67	355.84	0.00	0.00	0.00	0.00	0.00	0.00	58.50	1,422.68	**0.00**	**0.00**	**58.50**	**Y**	**Y**
O04-03a	0.00	0.00	0.00	0.00	75.69	1,627.87	**0.00**	**0.00**	0.00	0.00	0.00	0.00	2.21	47.52	0.00	0.00	0.00	0.00	0.00	0.00	73.48	1,580.35	**0.00**	**0.00**	**73.48**	**Y**	**Y**
O04-03b	26.18	1,262.54	0.00	0.00	56.21	800.44	**26.18**	**1,262.54**	4.37	205.39	0.00	0.00	7.15	121.85	0.00	0.00	21.81	1,057.15	0.00	0.00	49.06	678.59	**21.81**	**1,057.15**	**70.87**	**Y**	**Y**
O05-01	220.28	11,209.36	8.60	671.22	46.87	620.57	**228.88**	**11,880.58**	23.00	1,115.66	1.75	155.86	4.19	139.00	0.00	0.00	197.28	10,093.70	6.85	515.36	42.68	481.57	**204.13**	**10,609.06**	**246.81**	**N**	**N**
O05-02	92.95	3,884.27	10.36	468.35	31.46	813.56	**103.31**	**4,352.62**	31.35	1,359.36	7.39	365.17	27.28	812.36	3.29	104.37	61.60	2,524.91	0.00	0.00	3.86	0.00	**61.60**	**2,524.91**	**65.46**	**N**	**Y**
O05-03R	181.66	7,748.62	11.91	471.90	44.45	804.24	**193.57**	**8,220.52**	26.96	1,094.25	9.48	387.48	19.47	253.66	0.00	0.00	154.70	6,654.37	2.43	84.42	24.98	550.58	**157.13**	**6,738.79**	**182.11**	**N**	**N**
O07-01R	0.00	0.00	131.74	5,676.85	96.33	1,157.39	**131.74**	**5,676.85**	0.00	0.00	12.13	517.31	38.01	853.87	0.00	0.00	0.00	0.00	119.61	5,159.54	58.32	303.52	**119.61**	**5,159.54**	**177.93**	**N**	**N**
O07-03R	73.17	2,900.77	75.33	2,464.09	197.63	4,581.38	**148.50**	**5,364.86**	9.34	349.63	0.00	0.00	10.83	232.57	0.00	0.00	63.83	2,551.14	75.33	2,464.09	186.80	4,348.81	**139.16**	**5,015.23**	**325.96**	**N**	**N**
O08-01	13.06	412.93	23.36	876.00	192.50	3,799.26	**36.42**	**1,288.93**	3.05	96.57	3.48	130.50	12.93	231.03	0.00	0.00	10.01	316.36	19.88	745.50	179.57	3,568.23	**29.89**	**1,061.86**	**209.46**	**Y**	**Y**
O08-02	43.69	1,800.51	34.00	1,268.46	199.56	4,127.10	**77.69**	**3,068.97**	3.70	131.57	0.00	0.00	14.10	385.28	0.00	0.00	39.99	1,668.94	34.00	1,268.46	185.46	3,741.82	**73.99**	**2,937.40**	**259.45**	**N**	**Y**
O09-02	68.56	3,003.15	8.58	400.89	116.17	2,906.97	**77.14**	**3,404.04**	0.00	0.00	0.00	0.00	44.40	1,125.80	0.00	0.00	68.56	3,003.15	8.58	400.89	71.77	1,781.17	**77.14**	**3,404.04**	**148.91**	**N**	**N**
O10-01	43.28	1,406.60	69.18	2,590.59	117.33	1,242.64	**112.46**	**3,997.19**	0.00	0.00	12.20	483.76	9.86	118.96	0.17	4.93	43.28	1,406.60	56.98	2,106.83	107.30	1,118.75	**100.26**	**3,513.43**	**207.56**	**N**	**N**
O10-02	72.26	2,369.23	2.52	79.58	142.66	994.28	**74.78**	**2,448.81**	2.98	119.20	2.10	66.32	6.17	140.94	0.00	0.00	69.28	2,250.03	0.42	13.26	136.49	853.34	**69.70**	**2,263.29**	**206.19**	**Y**	**Y**
O10-03	5.00	192.50	106.93	3,666.92	28.66	539.68	**111.93**	**3,859.42**	1.91	73.54	8.60	291.23	4.24	75.38	0.00	0.00	3.09	118.96	98.33	3,375.69	24.42	464.30	**101.42**	**3,494.65**	**125.84**	**N**	**N**
O10-04	0.00	0.00	139.26	4,657.54	25.05	79.67	**139.26**	**4,657.54**	0.00	0.00	12.48	429.16	3.06	0.00	0.00	0.00	0.00	0.00	126.78	4,228.38	21.99	79.67	**126.78**	**4,228.38**	**148.77**	**N**	**N**
O11-01	57.56	3,376.17	22.28	871.91	70.47	1,269.31	**79.84**	**4,248.08**	3.38	144.54	1.46	70.92	8.90	10.08	0.00	0.00	54.18	3,231.63	20.82	800.99	61.57	1,259.23	**75.00**	**4,032.62**	**136.57**	**N**	**N**
O11-02	71.50	3,000.45	0.00	0.00	19.83	269.54	**71.50**	**3,000.45**	13.77	563.43	0.00	0.00	1.16	29.58	0.00	0.00	57.73	2,437.02	0.00	0.00	18.67	239.96	**57.73**	**2,437.02**	**76.40**	**Y**	**Y**
O13-01	23.88	919.27	36.31	1,342.12	56.29	1,171.03	**60.19**	**2,261.39**	1.53	58.91	0.28	9.39	6.63	85.80	0.00	0.00	22.35	860.36	36.03	1,332.73	49.66	1,085.23	**58.38**	**2,193.09**	**108.04**	**Y**	**Y**
O13-06R	70.05	2,636.57	4.36	161.32	140.65	3,048.29	**74.41**	**2,797.89**	7.35	273.50	0.00	0.00	11.08	241.48	0.00	0.00	62.70	2,363.07	4.36	161.32	129.57	2,806.81	**67.06**	**2,524.39**	**196.63**	**Y**	**Y**
O14-03R	155.48	6,662.22	0.00	0.00	88.73	960.12	**155.48**	**6,662.22**	3.20	144.70	0.00	0.00	0.88	17.23	0.00	0.00	152.28	6,517.52	0.00	0.00	87.85	942.89	**152.28**	**6,517.52**	**240.13**	**N**	**N**
O15-01	33.21	1,209.95	0.00	0.00	79.97	1,417.31	**33.21**	**1,209.95**	0.00	0.00	0.00	0.00	1.07	21.13	0.00	0.00	33.21	1,209.95	0.00	0.00	78.90	1,396.18	**33.21**	**1,209.95**	**112.11**	**Y**	**Y**
O15-03	67.91	2,506.61	0.14	4.62	17.31	171.87	**68.05**	**2,511.23**	2.83	103.30	0.00	0.00	1.77	45.14	0.00	0.00	65.08	2,403.31	0.14	4.62	15.54	126.73	**65.22**	**2,407.93**	**80.76**	**Y**	**Y**
Q02-02	62.88	2,369.62	91.05	3,452.28	6.53	106.08	**153.93**	**5,821.90**	17.28	653.29	32.92	1,238.05	1.81	0.00	0.00	0.00	45.60	1,716.33	58.13	2,214.23	4.72	106.08	**103.73**	**3,930.56**	**108.45**	**N**	**N**
Q02-03	81.90	3,406.34	139.99	6,391.18	20.04	136.59	**221.89**	**9,797.52**	26.79	1,137.52	52.87	2,551.56	13.62	76.35	0.00	0.00	55.11	2,268.82	87.12	3,839.62	6.42	60.24	**142.23**	**6,108.44**	**148.65**	**N**	**N**
Q02-04R	90.86	3,215.34	45.58	2,023.83	79.50	108.60	**136.44**	**5,239.17**	45.26	1,615.36	25.91	1,156.66	40.17	82.40	35.06	1,198.08	20.56	734.54	12.74	534.53	36.24	26.20	**33.30**	**1,269.07**	**69.54**	**N**	**Y**
R02-01R	89.70	3,588.13	11.04	817.57	83.41	1,845.25	**100.74**	**4,405.70**	24.79	867.96	3.55	256.67	7.76	191.58	13.74	364.11	64.91	2,720.17	7.49	560.90	61.91	1,289.56	**72.40**	**3,281.07**	**134.31**	**N**	**Y**
S01-01	66.61	2,535.58	60.62	2,318.25	0.00	0.00	**127.23**	**4,853.83**	0.80	33.24	0.00	0.00	0.00	0.00	0.00	0.00	65.81	2,502.34	60.62	2,318.25	0.00	0.00	**126.43**	**4,820.59**	**126.43**	**N**	**N**
S02-01R	117.81	5,794.52	2.78	107.03	45.52	765.95	**120.59**	**5,901.55**	6.80	286.32	0.00	0.00	0.99	13.86	0.00	0.00	111.01	5,508.20	2.78	107.03	44.53	752.09	**113.79**	**5,615.23**	**158.32**	**N**	**N**
S03-01R	1.18	78.47	44.96	1,698.15	100.03	2,649.28	**46.14**	**1,776.62**	0.00	0.00	2.12	91.16	3.10	84.72	0.00	0.00	1.18	78.47	42.84	1,606.99	96.93	2,564.56	**44.02**	**1,685.46**	**140.95**	**Y**	**Y**
SHC-02	26.49	1,106.07	127.21	5,189.46	59.13	1,457.37	**153.70**	**6,295.53**	0.00	0.00	0.52	16.40	3.13	76.77	0.00	0.00	26.49	1,106.07	126.69	5,173.06	56.00	1,380.60	**153.18**	**6,279.13**	**209.18**	**N**	**N**
T02-01	29.27	1,068.36	0.00	0.00	145.33	3,004.79	**29.27**	**1,068.36**	5.07	185.06	0.00	0.00	1.58	15.11	0.00	0.00	24.20	883.30	0.00	0.00	143.75	2,989.68	**24.20**	**883.30**	**167.95**	**Y**	**Y**
T02-02R	0.01	0.40	57.73	2,746.15	103.06	1,690.53	**57.74**	**2,746.55**	0.00	0.00	7.59	375.71	0.00	0.00	0.00	0.00	0.01	0.40	50.14	2,370.44	103.06	1,690.53	**50.15**	**2,370.84**	**153.21**	**Y**	**Y**

This cluster is taken as a result of Alternative B Maneuver Center of Excellence projects.

Table 3-3. Red-cockaded woodpecker foraging habitat data using the **Recovery Standard** (USFWS 2003a) for all partitions impacted by **Alternative B** of the proposed Fort Benning Maneuver Center of Excellence projects, Chattahoochee and Muscogee Counties, Georgia.

	Pre- Project Foraging Habitat Totals								
Cluster	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Forested Acreage (within A20 Impact Area)	Future Potential Acreage	Future Potential BA	Suitable + Potentially Suitable Acreage	Suitable + Potentially Suitable BA
A06-01	0.00	0.00	0.00	0.00	35.23	187.36	7,801.66	**0.00**	**0.00**
A08-03	0.00	0.00	0.00	0.00	17.33	99.79	4,060.39	**0.00**	**0.00**
A08-04	0.00	0.00	0.00	0.00	154.79	27.11	1,111.51	**0.00**	**0.00**
A20-04	0.00	0.00	4.26	272.64	155.36	153.09	5,757.03	**4.26**	**272.64**

	Project Removals						
	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Forested Acreage (within A20 Impact Area)	Future Potential Acreage	Future Potential BA
A06-01	0.00	0.00	0.00	0.00	0.00	2.42	96.77
A08-03	0.00	0.00	0.00	0.00	5.74	0.00	0.00
A08-04	0.00	0.00	0.00	0.00	6.96	0.00	0.00
A20-04	0.00	0.00	0.00	0.00	0.00	8.38	370.52

	Post- Project Foraging Habitat Totals										
	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Forested Acreage (within A20 Impact Area) Removed	Future Potential Acreage	Future Potential BA	Total Suitable + Potentially Suitable Acreage	Total Suitable + Potentially Suitable BA	Total Manageable Acres	Deficient Pre-project?	Deficient Post-project?
A06-01	0.00	0.00	0.00	0.00	35.23	184.94	7,704.89	**0.00**	**0.00**	**220.17**	Y	Y*
A08-03	0.00	0.00	0.00	0.00	11.59	99.79	4,060.39	**0.00**	**0.00**	**111.38**	Y	Y
A08-04	0.00	0.00	0.00	0.00	147.83	27.11	1,111.51	**0.00**	**0.00**	**174.94**	Y	Y*
A20-04	0.00	0.00	4.26	272.64	155.36	144.71	5,386.51	**4.26**	**272.64**	**304.33**	Y	Y*

	Pre- Project Foraging Habitat Totals							
Cluster	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA	Suitable + Potentially Suitable Acreage	Suitable + Potentially Suitable BA
A07-01	0.00	0.00	1.97	90.62	181.06	5,232.68	1.97	90.62
A08-01	0.00	0.00	0.00	0.00	187.23	6,734.67	0.00	0.00
A08-02a	0.00	0.00	49.77	1,839.67	38.58	1,350.30	49.77	1,839.67
A09-03R	0.00	0.00	0.00	0.00	128.36	3,945.89	0.00	0.00
A09-04R	0.00	0.00	0.00	0.00	203.73	5,374.77	0.00	0.00
A09-05	0.00	0.00	0.00	0.00	175.07	5,802.25	0.00	0.00
A14-03R	0.00	0.00	47.17	2,452.84	51.88	1,877.57	47.17	2,452.84
A17-01	0.00	0.00	85.96	4,545.01	32.01	1,509.58	85.96	4,545.01
A17-02	0.00	0.00	62.70	3,298.06	58.72	428.19	62.70	3,298.06
A17-03	0.00	0.00	53.95	2,805.40	54.32	2,863.14	53.95	2,805.40
A17-04	0.00	0.00	39.27	2,042.04	176.65	9,161.70	39.27	2,042.04
A17-05	0.00	0.00	83.93	3,776.85	29.72	1,102.28	83.93	3,776.85
A17-06	0.00	0.00	51.19	2,661.88	69.48	1,757.66	51.19	2,661.88
A17-07	0.00	0.00	74.21	3,339.45	18.70	960.20	74.21	3,339.45
A17-08	0.00	0.00	111.84	7,119.92	18.73	106.10	111.84	7,119.92
A17-11R	0.00	0.00	123.32	8,139.12	0.35	1.93	123.32	8,139.12
A17-12R	0.00	0.00	14.81	977.46	106.20	3,080.77	14.81	977.46
A17-13	0.00	0.00	80.36	4,178.72	24.42	1,221.00	80.36	4,178.72
A17-14a	0.00	0.00	4.41	229.32	98.16	4,538.66	4.41	229.32
A17-14b	0.00	0.00	0.00	0.00	88.92	4,789.36	0.00	0.00
A20-06	0.00	0.00	0.00	0.00	172.52	5,843.55	0.00	0.00
BB03-01R	0.00	0.00	8.78	424.04	166.76	4,004.10	8.78	424.04
BB04-01R	10.85	461.13	23.22	1,036.17	109.74	3,738.52	34.07	1,497.30
BB05-01R	0.00	0.00	0.00	0.00	244.00	8,709.84	0.00	0.00
C01-02	0.30	15.45	64.04	2,915.92	121.71	3,800.40	64.34	2,931.37
C01-03	11.55	704.55	35.46	1,557.11	85.09	2,239.90	47.01	2,261.66
C01-06	27.04	1,212.32	47.07	2,024.01	47.84	1,157.38	74.11	3,236.33
C02-02	9.17	366.80	0.00	0.00	283.84	8,884.98	9.17	366.80
D05-02R	0.00	0.00	0.00	0.00	164.42	5,797.24	0.00	0.00
D05-04R	0.00	0.00	0.00	0.00	290.72	10,283.04	0.00	0.00
D06-01R	0.00	0.00	0.00	0.00	155.39	3,446.10	0.00	0.00
D08-01R	0.00	0.00	0.00	0.00	242.89	5,355.42	0.00	0.00
D10-01	40.41	1,333.53	0.00	0.00	132.84	1,891.77	40.41	1,333.53
D11-01	83.36	3,174.20	0.00	0.00	60.34	432.68	83.36	3,174.20
D11-02	45.69	1,762.51	0.00	0.00	114.10	3,385.99	45.69	1,762.51
D12-01	58.36	2,761.74	0.00	0.00	160.28	4,225.14	58.36	2,761.74
D16-01	16.76	838.00	0.00	0.00	207.87	3,782.67	16.76	838.00
D16-02	0.00	0.00	0.00	0.00	226.24	3,999.45	0.00	0.00
D17-01	34.49	1,500.32	0.00	0.00	270.50	5,320.90	34.49	1,500.32
D17-03	13.00	598.00	0.00	0.00	190.71	5,426.40	13.00	598.00
D17-04R	34.55	1,485.25	0.00	0.00	158.04	3,925.67	34.55	1,485.25
E02-01R	0.92	44.62	0.00	0.00	180.78	3,748.72	0.92	44.62
E04-01	9.65	406.95	6.06	575.70	151.65	4,786.55	15.71	982.65
F02-01R	48.58	2,130.20	0.00	0.00	141.86	2,853.07	48.58	2,130.20
HCC-08R	2.74	117.82	0.00	0.00	186.16	5,409.86	2.74	117.82
HCC-10R	0.00	0.00	8.07	347.01	137.02	4,616.90	8.07	347.01
HCC-11R	0.00	0.00	1.74	68.73	207.10	5,031.87	1.74	68.73
J01-02R	10.45	470.25	3.62	289.60	184.71	2,669.42	14.07	759.85
J02-02R	10.81	459.43	0.00	0.00	129.75	3,063.70	10.81	459.43
J06-03	1.43	53.63	0.00	0.00	287.01	9,715.30	1.43	53.63
K02-01	0.00	0.00	0.00	0.00	256.36	5,932.78	0.00	0.00
K08-03R	37.72	1,603.10	0.00	0.00	89.19	1,958.45	37.72	1,603.10
K08-04	23.14	983.45	5.46	207.48	163.79	5,600.70	28.60	1,190.93
K09-01	49.40	2,240.38	27.09	1,034.70	72.81	2,229.33	76.49	3,275.08
K09-02R	2.44	97.71	2.04	102.00	148.70	5,002.88	4.48	199.71

	Project Removals					
Cluster	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A07-01	0.00	0.00	0.00	0.00	12.38	360.31
A08-01	0.00	0.00	0.00	0.00	6.25	208.42
A08-02a	0.00	0.00	1.29	55.47	1.80	63.00
A09-03R	0.00	0.00	0.00	0.00	14.77	456.65
A09-04R	0.00	0.00	0.00	0.00	17.11	427.70
A09-05	0.00	0.00	0.00	0.00	4.18	150.10
A14-03R	0.00	0.00	36.50	1,898.00	1.70	62.05
A17-01	0.00	0.00	85.96	4,545.01	32.01	1,509.58
A17-02	0.00	0.00	60.44	3,187.32	56.67	407.69
A17-03	0.00	0.00	53.95	2,805.40	54.32	2,863.14
A17-04	0.00	0.00	13.31	692.12	57.58	3,156.90
A17-05	0.00	0.00	74.17	3,337.65	19.16	794.33
A17-06	0.00	0.00	51.19	2,661.88	45.48	1,657.83
A17-07	0.00	0.00	73.73	3,317.85	18.70	960.20
A17-08	0.00	0.00	111.84	7,119.92	18.73	106.10
A17-11R	0.00	0.00	106.53	7,030.98	0.35	1.93
A17-12R	0.00	0.00	4.75	313.50	26.47	684.53
A17-13	0.00	0.00	80.36	4,178.72	24.42	1,221.00
A17-14a	0.00	0.00	4.41	229.32	94.07	4,514.12
A17-14b	0.00	0.00	0.00	0.00	57.00	3,165.75
A20-06	0.00	0.00	0.00	0.00	29.49	990.80
BB03-01R	0.00	0.00	0.79	37.44	8.67	194.91
BB04-01R	0.00	0.00	0.27	10.67	11.24	403.52
BB05-01R	0.00	0.00	0.00	0.00	13.74	616.01
C01-02	0.00	0.00	0.00	0.00	2.34	78.81
C01-03	1.15	70.15	3.03	132.98	4.25	121.26
C01-06	0.00	0.00	4.91	211.13	5.60	202.64
C02-02	0.00	0.00	0.00	0.00	27.82	618.33
D05-02R	0.00	0.00	0.00	0.00	61.38	2,118.25
D05-04R	0.00	0.00	0.00	0.00	150.63	5,409.63
D06-01R	0.00	0.00	0.00	0.00	39.42	493.24
D08-01R	0.00	0.00	0.00	0.00	111.56	3,554.77
D10-01	1.80	59.40	0.00	0.00	32.50	698.47
D11-01	45.99	1,732.99	0.00	0.00	38.50	215.24
D11-02	45.54	1,756.74	0.00	0.00	93.91	2,705.42
D12-01	4.48	226.25	0.00	0.00	22.45	585.99
D16-01	0.00	0.00	0.00	0.00	47.90	916.97
D16-02	0.00	0.00	0.00	0.00	175.61	3,152.95
D17-01	20.49	891.32	0.00	0.00	73.78	1,988.46
D17-03	12.81	589.26	0.00	0.00	101.90	2,779.66
D17-04R	9.62	424.32	0.00	0.00	88.06	2,481.07
E02-01R	0.00	0.00	0.00	0.00	2.93	71.41
E04-01	4.20	161.70	3.09	293.55	52.51	1,919.54
F02-01R	36.76	1,602.14	0.00	0.00	92.92	2,012.29
HCC-08R	0.61	26.23	0.00	0.00	0.00	0.00
HCC-10R	0.00	0.00	0.58	24.94	18.55	645.29
HCC-11R	0.00	0.00	0.93	36.74	13.16	333.88
J01-02R	0.00	0.00	0.01	0.37	6.35	229.60
J02-02R	4.69	199.33	0.00	0.00	11.68	301.02
J06-03	0.46	17.25	0.00	0.00	43.83	1,611.55
K02-01	0.00	0.00	0.00	0.00	171.13	3,933.64
K08-03R	2.78	118.15	0.00	0.00	9.72	315.90
K08-04	2.48	105.40	2.51	95.38	10.15	364.97
K09-01	0.00	0.00	1.05	39.90	2.38	70.69
K09-02R	2.42	96.80	0.00	0.00	41.95	1,080.20

	Post- Project Foraging Habitat Totals												
Cluster	Non-contiguous Habitat Acreage	Non-contiguous Habitat BA	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA	Total Suitable + Potentially Suitable Acreage	Total Suitable + Potentially Suitable BA	Total Manageable Acres	Deficient Pre-project?	Deficient Post-project?
A07-01	0.00	0.00	0.00	0.00	1.97	90.62	168.68	4,872.37	1.97	90.62	170.65	Y	Y*
A08-01	0.00	0.00	0.00	0.00	0.00	0.00	180.98	6,526.25	0.00	0.00	180.98	Y	Y*
A08-02a	0.00	0.00	0.00	0.00	48.48	1,784.20	36.78	1,287.30	48.48	1,784.20	85.26	Y	Y
A09-03R	0.00	0.00	0.00	0.00	0.00	0.00	113.59	3,489.24	0.00	0.00	113.59	Y	Y
A09-04R	0.00	0.00	0.00	0.00	0.00	0.00	186.62	4,947.07	0.00	0.00	186.62	Y	Y*
A09-05	0.00	0.00	0.00	0.00	0.00	0.00	170.89	5,652.15	0.00	0.00	170.89	Y	Y*
A14-03R	0.00	0.00	0.00	0.00	10.67	554.84	50.18	1,815.52	10.67	554.84	60.85	Y	Y
A17-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y	Y
A17-02	0.00	0.00	0.00	0.00	2.26	110.74	2.05	20.50	2.26	110.74	4.31	Y	Y
A17-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y	Y
A17-04	0.00	0.00	0.00	0.00	25.96	1,349.92	119.07	6,004.80	25.96	1,349.92	145.03	Y	Y
A17-05	0.00	0.00	0.00	0.00	9.76	439.20	10.56	307.95	9.76	439.20	20.32	Y	Y
A17-06	0.00	0.00	0.00	0.00	0.00	0.00	24.00	99.83	0.00	0.00	24.00	Y	Y
A17-07	0.00	0.00	0.00	0.00	0.48	21.60	0.00	0.00	0.48	21.60	0.48	Y	Y
A17-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y	Y
A17-11R	0.00	0.00	0.00	0.00	16.79	1,108.14	0.00	0.00	16.79	1,108.14	16.79	N	Y
A17-12R	0.00	0.00	0.00	0.00	10.06	663.96	79.73	2,396.24	10.06	663.96	89.79	Y	Y
A17-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y	Y
A17-14a	0.00	0.00	0.00	0.00	0.00	0.00	4.09	24.54	0.00	0.00	4.09	Y	Y
A17-14b	0.00	0.00	0.00	0.00	0.00	0.00	31.92	1,623.61	0.00	0.00	31.92	Y	Y
A20-06	0.00	0.00	0.00	0.00	0.00	0.00	143.03	4,852.75	0.00	0.00	143.03	Y	Y
BB03-01R	0.00	0.00	0.00	0.00	7.99	386.60	158.09	3,809.19	7.99	386.60	166.08	Y	Y*
BB04-01R	7.34	337.64	10.85	461.13	22.95	1,025.50	91.16	2,997.36	33.80	1,486.63	124.96	Y	Y
BB05-01R	0.00	0.00	0.00	0.00	0.00	0.00	230.26	8,093.83	0.00	0.00	230.26	Y	Y*
C01-02	0.00	0.00	0.30	15.45	64.04	2,915.92	119.37	3,721.59	64.34	2,931.37	183.71	Y	Y*
C01-03	0.00	0.00	10.40	634.40	32.43	1,424.13	80.84	2,118.64	42.83	2,058.53	123.67	Y	Y
C01-06	0.00	0.00	27.04	1,212.32	42.16	1,812.88	42.24	954.74	69.20	3,025.20	111.44	Y	Y
C02-02	0.00	0.00	9.17	366.80	0.00	0.00	256.02	8,266.65	9.17	366.80	265.19	Y	Y*
D05-02R	0.00	0.00	0.00	0.00	0.00	0.00	103.04	3,678.99	0.00	0.00	103.04	Y	Y
D05-04R	0.00	0.00	0.00	0.00	0.00	0.00	140.09	4,873.41	0.00	0.00	140.09	Y	Y
D06-01R	13.94	135.64	0.00	0.00	0.00	0.00	102.03	2,817.22	0.00	0.00	102.03	Y	Y
D08-01R	0.00	0.00	0.00	0.00	0.00	0.00	131.33	1,800.65	0.00	0.00	131.33	Y	Y
D10-01	5.26	127.45	38.61	1,274.13	0.00	0.00	95.08	1,065.85	38.61	1,274.13	133.69	Y	Y
D11-01	0.00	0.00	37.37	1,441.21	0.00	0.00	21.84	217.44	37.37	1,441.21	59.21	Y	Y
D11-02	15.94	572.20	0.15	5.77	0.00	0.00	4.25	108.37	0.15	5.77	4.40	Y	Y
D12-01	0.00	0.00	53.88	2,535.49	0.00	0.00	137.83	3,639.15	53.88	2,535.49	191.71	Y	Y*
D16-01	0.00	0.00	16.76	838.00	0.00	0.00	159.97	2,865.70	16.76	838.00	176.73	Y	Y*
D16-02	24.03	497.47	0.00	0.00	0.00	0.00	26.60	349.03	0.00	0.00	26.60	Y	Y
D17-01	24.28	578.42	14.00	609.00	0.00	0.00	172.44	2,754.02	14.00	609.00	186.44	Y	Y*
D17-03	0.00	0.00	0.19	8.74	0.00	0.00	88.81	2,646.74	0.19	8.74	89.00	Y	Y
D17-04R	0.00	0.00	24.93	1,060.93	0.00	0.00	69.98	1,444.60	24.93	1,060.93	94.91	Y	Y
E02-01R	0.00	0.00	0.92	44.62	0.00	0.00	177.85	3,677.31	0.92	44.62	178.77	Y	Y*
E04-01	0.00	0.00	5.45	245.25	2.97	282.15	99.14	2,867.01	8.42	527.40	107.56	Y	Y
F02-01R	0.00	0.00	11.82	528.06	0.00	0.00	48.94	840.78	11.82	528.06	60.76	Y	Y
HCC-08R	0.00	0.00	2.13	91.59	0.00	0.00	186.16	5,409.86	2.13	91.59	188.29	Y	Y*
HCC-10R	2.03	75.09	0.00	0.00	7.49	322.07	116.44	3,896.52	7.49	322.07	123.93	Y	Y
HCC-11R	1.23	47.11	0.00	0.00	0.00	0.00	193.52	4,682.87	0.00	0.00	193.52	Y	Y*
J01-02R	0.00	0.00	10.45	470.25	3.61	289.23	178.36	2,439.82	14.06	759.48	192.42	Y	Y*
J02-02R	0.00	0.00	6.12	260.10	0.00	0.00	118.07	2,762.68	6.12	260.10	124.19	Y	Y
J06-03	0.00	0.00	0.97	36.38	0.00	0.00	243.18	8,103.75	0.97	36.38	244.15	Y	Y*
K02-01	12.69	356.70	0.00	0.00	0.00	0.00	72.54	1,642.44	0.00	0.00	72.54	Y	Y
K08-03R	0.00	0.00	34.94	1,484.95	0.00	0.00	79.47	1,642.55	34.94	1,484.95	114.41	Y	Y
K08-04	37.59	1,086.30	20.66	878.05	2.95	112.10	116.05	4,149.43	23.61	990.15	139.66	Y	Y
K09-01	0.00	0.00	49.40	2,240.38	26.04	994.80	70.43	2,158.64	75.44	3,235.18	145.87	Y	Y
K09-02R	0.00	0.00	0.02	0.91	2.04	102.00	106.75	3,922.68	2.06	102.91	108.81	Y	Y

Table 3-3 (cont). Red-cockaded woodpecker foraging habitat data using the **Recovery Standard** (USFWS 2003a) for all partitions impacted by **Alternative B** of the proposed Fort Benning Maneuver Center of Excellence projects, Chattahoochee and Muscogee Counties, Georgia.

	Pre- Project Foraging Habitat Totals								Project Removals						Post- Project Foraging Habitat Totals												
Cluster	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA	Suitable + Potentially Suitable Acreage	Suitable + Potentially Suitable BA	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA	Non-contiguous Habitat Acreage	Non-contiguous Habitat BA	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA	Total Suitable + Potentially Suitable Acreage	Total Suitable + Potentially Suitable BA	Total Manageable Acres	Deficient Pre-project?	Deficient Post-project?
K09-03R	0.00	0.00	44.32	2,216.00	202.65	5,804.12	44.32	2,216.00	0.00	0.00	0.61	30.50	16.61	423.41	0.00	0.00	0.00	0.00	43.71	2,185.50	186.04	5,380.71	43.71	2,185.50	229.75	Y	Y*
K11-02	68.15	2,854.25	0.00	0.00	214.52	5,956.96	68.15	2,854.25	40.50	1,653.43	0.00	0.00	33.16	951.95	0.00	0.00	27.65	1,200.82	0.00	0.00	181.36	5,005.01	27.65	1,200.82	209.01	Y	Y*
K11-04R	16.98	716.26	0.00	0.00	159.45	2,980.87	16.98	716.26	9.29	381.74	0.00	0.00	70.48	1,151.25	0.00	0.00	7.69	334.52	0.00	0.00	88.97	1,829.62	7.69	334.52	96.66	Y	Y
K12-01	83.19	3,577.17	0.00	0.00	119.19	2,555.20	83.19	3,577.17	43.90	1,887.70	0.00	0.00	1.92	74.67	0.00	0.00	39.29	1,689.47	0.00	0.00	117.27	2,480.53	39.29	1,689.47	156.56	Y	Y*
K13-02	45.08	2,536.62	0.00	0.00	107.56	3,582.88	45.08	2,536.62	10.99	565.78	0.00	0.00	66.32	2,350.92	0.00	0.00	34.09	1,970.84	0.00	0.00	41.24	1,231.97	34.09	1,970.84	75.33	Y	Y
K13-04	0.00	0.00	0.70	32.90	178.15	4,351.73	0.70	32.90	0.00	0.00	0.00	0.00	93.77	2,340.61	0.00	0.00	0.00	0.00	0.70	32.90	84.38	2,011.12	0.70	32.90	85.08	Y	Y
K13-05R	19.60	1,033.22	22.90	996.15	66.86	1,571.16	42.50	2,029.37	0.25	12.75	0.00	0.00	17.03	533.06	0.00	0.00	19.35	1,020.47	22.90	996.15	49.83	1,038.11	42.25	2,016.62	92.08	Y	Y
K13-06	0.00	0.00	75.85	3,564.95	134.08	3,090.19	75.85	3,564.95	0.00	0.00	0.00	0.00	5.28	22.40	0.00	0.00	0.00	0.00	75.85	3,564.95	128.80	3,067.79	75.85	3,564.95	204.65	Y	Y*
K21-02R	51.25	2,639.38	0.00	0.00	156.92	5,650.56	51.25	2,639.38	0.00	0.00	0.00	0.00	36.85	1,394.69	0.00	0.00	51.25	2,639.38	0.00	0.00	120.07	4,255.87	51.25	2,639.38	171.32	Y	Y*
K21-05R	111.35	5,102.19	2.42	112.53	159.00	5,561.30	113.77	5,214.72	5.84	248.73	0.00	0.00	62.97	2,522.37	0.00	0.00	105.51	4,853.46	2.42	112.53	96.03	3,038.93	107.93	4,965.99	203.96	Y	Y*
KPR-01	0.00	0.00	60.42	2,987.70	116.86	4,903.06	60.42	2,987.70	0.00	0.00	6.79	333.40	14.86	681.16	0.00	0.00	0.00	0.00	53.63	2,654.30	102.00	4,221.90	53.63	2,654.30	155.63	Y	Y*
L02-02R	90.79	3,418.24	19.84	1,080.91	142.91	3,373.43	110.63	4,499.15	9.49	357.30	0.00	0.00	21.81	607.07	0.00	0.00	81.30	3,060.94	19.84	1,080.91	121.10	2,766.36	101.14	4,141.85	222.24	Y	Y*
L03-01	27.26	1,472.04	4.59	238.13	76.04	1,796.65	31.85	1,710.17	0.00	0.00	0.00	0.00	13.40	365.66	0.00	0.00	27.26	1,472.04	4.59	238.13	62.64	1,430.99	31.85	1,710.17	94.49	Y	Y
M01-01	0.00	0.00	42.78	1,925.10	70.67	1,531.55	42.78	1,925.10	0.00	0.00	1.28	57.60	2.51	69.65	0.00	0.00	0.00	0.00	41.50	1,867.50	68.16	1,461.90	41.50	1,867.50	109.66	Y	Y
M08-01	0.00	0.00	0.00	0.00	268.23	9,339.07	0.00	0.00	0.00	0.00	0.00	0.00	18.35	654.17	0.00	0.00	0.00	0.00	0.00	0.00	249.88	8,684.90	0.00	0.00	249.88	Y	Y*
M08-02a	46.60	2,479.35	31.53	1,246.00	80.31	3,078.25	78.13	3,725.35	7.07	350.81	0.00	0.00	2.09	85.06	0.00	0.00	39.53	2,128.54	31.53	1,246.00	78.22	2,993.19	71.06	3,374.54	149.28	Y	Y
M08-02b	31.08	1,418.76	17.97	812.45	67.70	2,158.48	49.05	2,231.21	3.70	163.44	3.94	178.32	7.28	207.27	0.00	0.00	27.38	1,255.32	14.03	634.13	60.42	1,951.21	41.41	1,889.45	101.83	Y	Y
M08-04R	0.00	0.00	0.00	0.00	195.38	5,418.87	0.00	0.00	0.00	0.00	0.00	0.00	8.87	191.91	0.00	0.00	0.00	0.00	0.00	0.00	186.51	5,226.96	0.00	0.00	186.51	Y	Y*
M08-05R	0.00	0.00	15.98	1,014.73	235.84	8,059.51	15.98	1,014.73	0.00	0.00	0.00	0.00	8.08	170.24	0.00	0.00	0.00	0.00	15.98	1,014.73	227.76	7,889.27	15.98	1,014.73	243.74	Y	Y*
N01-02	20.41	938.86	10.46	502.08	100.31	2,890.39	30.87	1,440.94	0.00	0.00	0.00	0.00	4.36	156.85	0.00	0.00	20.41	938.86	10.46	502.08	95.95	2,733.54	30.87	1,440.94	126.82	Y	Y
O01-01	34.25	1,482.92	0.05	2.05	114.02	3,619.25	34.30	1,484.97	0.00	0.00	0.00	0.00	2.31	95.33	0.00	0.00	34.25	1,482.92	0.05	2.05	111.71	3,523.92	34.30	1,484.97	146.01	Y	Y
O01-02	2.12	76.32	12.16	498.56	134.39	3,037.14	14.28	574.88	0.00	0.00	0.00	0.00	13.05	339.82	0.00	0.00	2.12	76.32	12.16	498.56	121.34	2,697.32	14.28	574.88	135.62	Y	Y
O01-03	3.35	156.91	0.00	0.00	147.14	5,435.97	3.35	156.91	1.16	54.33	0.00	0.00	22.02	615.69	0.00	0.00	2.19	102.58	0.00	0.00	125.12	4,820.28	2.19	102.58	127.31	Y	Y
O01-04R	0.01	0.76	0.00	0.00	169.10	5,799.37	0.01	0.76	0.00	0.00	0.00	0.00	22.32	679.17	0.00	0.00	0.01	0.76	0.00	0.00	146.78	5,120.20	0.01	0.76	146.79	Y	Y
O02-01R	37.31	1,738.00	56.85	2,416.13	125.39	2,726.51	94.16	4,154.13	1.85	83.10	1.09	46.33	15.13	330.49	0.00	0.00	35.46	1,654.90	55.76	2,369.80	110.26	2,396.02	91.22	4,024.70	201.48	Y	Y*
O03-01	0.00	0.00	26.77	936.95	66.53	1,905.66	26.77	936.95	0.00	0.00	4.57	159.95	6.71	171.95	0.00	0.00	0.00	0.00	22.20	777.00	59.82	1,733.71	22.20	777.00	82.02	Y	Y
O03-02	63.17	2,669.80	5.70	293.55	94.59	2,398.04	68.87	2,963.35	13.89	589.97	2.01	103.52	16.25	382.11	0.00	0.00	49.28	2,079.83	3.69	190.03	78.34	2,015.93	52.97	2,269.86	131.31	Y	Y
O03-03	22.41	1,165.32	0.00	0.00	155.51	2,671.25	22.41	1,165.32	5.54	288.08	0.00	0.00	18.16	275.07	0.00	0.00	16.87	877.24	0.00	0.00	137.35	2,396.18	16.87	877.24	154.22	Y	Y*
O03-04	0.00	0.00	0.00	0.00	192.86	3,304.28	0.00	0.00	0.00	0.00	0.00	0.00	27.70	461.84	0.00	0.00	0.00	0.00	0.00	0.00	165.16	2,842.44	0.00	0.00	165.16	Y	Y*
O03-05	69.35	3,179.14	0.00	0.00	198.83	5,542.26	69.35	3,179.14	6.10	240.66	0.00	0.00	19.60	516.26	0.00	0.00	63.25	2,938.48	0.00	0.00	179.23	5,026.00	63.25	2,938.48	242.48	Y	Y*
O03-06R	0.00	0.00	0.00	0.00	266.10	7,752.48	0.00	0.00	0.00	0.00	0.00	0.00	35.03	1,119.59	0.00	0.00	0.00	0.00	0.00	0.00	231.07	6,632.89	0.00	0.00	231.07	Y	Y*
O03-07	0.00	0.00	0.00	0.00	178.39	5,593.47	0.00	0.00	0.00	0.00	0.00	0.00	10.79	415.76	0.00	0.00	0.00	0.00	0.00	0.00	167.60	5,177.71	0.00	0.00	167.60	Y	Y*
O04-01	0.00	0.00	0.00	0.00	73.17	1,778.52	0.00	0.00	0.00	0.00	0.00	0.00	14.67	355.84	0.00	0.00	0.00	0.00	0.00	0.00	58.50	1,422.68	0.00	0.00	58.50	Y	Y
O04-03a	0.00	0.00	0.00	0.00	75.69	1,627.87	0.00	0.00	0.00	0.00	0.00	0.00	2.21	47.52	0.00	0.00	0.00	0.00	0.00	0.00	73.48	1,580.35	0.00	0.00	73.48	Y	Y
O04-03b	13.35	627.45	0.00	0.00	105.38	2,132.56	13.35	627.45	4.37	205.39	0.00	0.00	14.74	314.36	0.00	0.00	8.98	422.06	0.00	0.00	90.64	1,818.20	8.98	422.06	99.62	Y	Y
O05-01	13.36	660.92	130.79	6,677.13	131.60	5,163.10	144.15	7,338.05	2.46	121.70	5.68	286.33	20.80	1,002.49	0.00	0.00	10.90	539.22	125.11	6,390.80	110.80	4,160.61	136.01	6,930.02	246.81	N	N
O05-02	10.99	543.72	0.00	0.00	123.78	4,622.46	10.99	543.72	1.12	55.42	0.00	0.00	64.90	2,481.49	3.29	104.37	9.87	488.30	0.00	0.00	55.59	2,036.60	9.87	488.30	65.46	Y	Y
O05-03R	72.82	3,495.36	0.00	0.00	165.20	5,529.40	72.82	3,495.36	0.05	2.40	0.00	0.00	55.86	1,732.99	0.00	0.00	72.77	3,492.96	0.00	0.00	109.34	3,796.41	72.77	3,492.96	182.11	Y	Y*
O07-01R	0.00	0.00	0.00	0.00	228.07	6,834.24	0.00	0.00	0.00	0.00	0.00	0.00	50.14	1,371.18	0.00	0.00	0.00	0.00	0.00	0.00	177.93	5,463.06	0.00	0.00	177.93	Y	Y*
O07-03R	0.01	0.40	0.00	0.00	346.12	9,945.84	0.01	0.40	0.00	0.00	0.00	0.00	20.17	582.20	0.00	0.00	0.01	0.40	0.00	0.00	325.95	9,363.64	0.01	0.40	325.96	Y	Y*
O08-01	0.00	0.00	0.00	0.00	228.92	5,088.19	0.00	0.00	0.00	0.00	0.00	0.00	19.46	458.10	0.00	0.00	0.00	0.00	0.00	0.00	209.46	4,630.09	0.00	0.00	209.46	Y	Y*
O08-02	0.00	0.00	19.08	925.38	258.17	6,270.69	19.08	925.38	0.00	0.00	0.00	0.00	17.80	516.85	0.00	0.00	0.00	0.00	19.08	925.38	240.37	5,753.84	19.08	925.38	259.45	Y	Y*
O09-02	0.00	0.00	43.54	2,111.69	149.77	4,199.32	43.54	2,111.69	0.00	0.00	0.00	0.00	44.40	1,125.80	0.00	0.00	0.00	0.00	43.54	2,111.69	105.37	3,073.52	43.54	2,111.69	148.91	Y	Y
O10-01	0.00	0.00	0.00	0.00	229.79	5,239.83	0.00	0.00	0.00	0.00	0.00	0.00	22.06	602.72	0.17	4.93	0.00	0.00	0.00	0.00	207.56	4,632.18	0.00	0.00	207.56	Y	Y*
O10-02	0.00	0.00	0.00	0.00	233.54	3,974.72	0.00	0.00	0.00	0.00	0.00	0.00	11.25	326.46	0.00	0.00	0.00	0.00	0.00	0.00	222.29	3,648.26	0.00	0.00	222.29	Y	Y*
O10-03	0.00	0.00	2.67	120.15	137.92	4,278.95	2.67	120.15	0.00	0.00	0.00	0.00	14.75	440.15	0.00	0.00	0.00	0.00	2.67	120.15	123.17	3,838.80	2.67	120.15	125.84	Y	Y
O10-04	0.00	0.00	0.00	0.00	164.31	4,737.21	0.00	0.00	0.00	0.00	0.00	0.00	15.54	429.16	0.00	0.00	0.00	0.00	0.00	0.00	148.77	4,308.05	0.00	0.00	148.77	Y	Y
O11-01	19.63	1,648.92	9.11	607.36	134.78	3,740.38	28.74	2,256.28	0.00	0.00	0.98	65.34	14.43	234.52	0.00	0.00	19.63	1,648.92	8.13	542.02	120.35	3,505.86	27.76	2,190.94	148.11	Y	Y
O11-02R	25.65	1,231.20	0.00	0.00	65.68	2,038.79	25.65	1,231.20	2.46	118.08	0.00	0.00	12.47	474.93	0.00	0.00	23.19	1,113.12	0.00	0.00	53.21	1,563.86	23.19	1,113.12	76.40	Y	Y
O13-01	0.00	0.00	0.00	0.00	116.48	3,432.42	0.00	0.00	0.00	0.00	0.00	0.00	8.44	154.10	0.00	0.00	0.00	0.00	0.00	0.00	108.04	3,278.32	0.00	0.00	108.04	Y	Y
O13-06R	0.00	0.00	0.00	0.00	215.06	5,846.18	0.00	0.00	0.00	0.00	0.00	0.00	18.43	514.98	0.00	0.00	0.00	0.00	0.00	0.00	196.63	5,331.20	0.00	0.00	196.63	Y	Y*
O14-03R	49.20	2,172.93	10.39	597.43	184.62	4,851.98	59.59	2,770.36	1.59	73.90	0.00	0.00	2.49	88.03	0.00	0.00	47.61	2,099.03	10.39	597.43	182.13	4,763.95	58.00	2,696.46	240.13	Y	Y*
O15-01	0.00	0.00	0.00	0.00	113.18	2,627.26	0.00	0.00	0.00	0.00	0.00	0.00	1.07	21.13	0.00	0.00	0.00	0.00	0.00	0.00	112.11	2,606.13	0.00	0.00	112.11	Y	Y
O15-03	1.09	51.23	0.00	0.00	84.27	2,631.87	1.09	51.23	0.81	38.07	0.00	0.00	3.79	110.37	0.00	0.00	0.28	13.16	0.00	0.00	80.48	2,521.50	0.28	13.16	80.76	Y	Y
Q02-02	0.00	0.00	0.00	0.00	160.46	5,927.98	0.00	0.00	0.00	0.00	0.00	0.00	52.01	1,891.34	0.00	0.00	0.00	0.00	0.00	0.00	108.45	4,036.64	0.00	0.00	108.45	Y	Y
Q02-03	0.00	0.00	0.00	0.00	241.93	9,934.11	0.00	0.00	0.00	0.00	0.00	0.00	93.28	3,765.43	0.00	0.00	0.00	0.00	0.00	0.00	148.65	6,168.68	0.00	0.00	148.65	Y	Y
Q02-04R	0.00	0.00	0.00	0.00	215.94	5,347.77	0.00	0.00	0.00	0.00	0.00	0.00	111.34	2,854.42	35.06	1,198.08	0.00	0.00	0.00	0.00	69.54	1,295.27	0.00	0.00	69.54	Y	Y
R02-01R	19.81	1,066.36	15.25	926.72	149.09	4,257.87	35.06	1,993.08	1.23	70.73	7.76	365.82	27.11	879.66	13.74	364.11	18.58	995.63	7.49	560.90	108.24	3,014.10	26.07	1,556.53	134.31	Y	Y
S01-01	3.48	186.18	0.00	0.00	123.75	4,667.65	3.48	186.18	0.16	8.56	0.00	0.00	0.64	24.68	0.00	0.00	3.32	177.62	0.00	0.00	123.11	4,642.97	3.32	177.62	126.43	Y	Y
S02-01R	60.62	3,507.58	0.00	0.00	105.49	3,159.92	60.62	3,507.58	0.00	0.00	0.00	0.00	7.79	300.18	0.00	0.00	60.62	3,507.58	0.00	0.00	97.70	2,859.74	60.62	3,507.58	158.32	Y	Y*
S03-01R	1.18	78.47	4.18	179.74	140.81	4,167.69	5.36	258.21	0.00	0.00	2.12	91.16	3.10	84.72	0.00	0.00	1.18	78.47	2.06	88.58	137.71	4,082.97	3.24	167.05	140.95	Y	Y
SHC-02	0.00	0.00	36.38	1,564.34	176.45	6,188.56	36.38	1,564.34	0.00	0.00	0.00	0.00	3.65	93.17	0.00	0.00	0.00	0.00	36.38	1,564.34	172.80	6,095.39	36.38	1,564.34	209.18	Y	Y*
T02-01	0.00	0.00	0.00	0.00	174.60	4,073.15	0.00	0.00	0.00	0.00	0.00	0.00	6.65	200.17	0.00	0.00	0.00	0.00	0.00	0.00	167.95	3,872.98	0.00	0.00	167.95	Y	Y*
T02-02R	0.00	0.00	50.40	2,494.80	110.40	1,942.28	50.40	2,494.80	0.00	0.00	7.59	375.71	0.00	0.00	0.00	0.00	0.00	0.00	42.81	2,119.09	110.40	1,942.28	42.81	2,119.09	153.21	Y	Y*

* With time and management, these partitions have enough acreage to meet the RS foraging standard on Fort Benning

Table 3-4. Activity status of impacted red-cockaded woodpecker (RCW) clusters from 2004-2008, **Alternative B**, Fort Benning, Georgia.

	2004	2005	2006	2007	2008
A06-01	PBG	PBG	PBG	PBG	PBG
A07-01	PBG	SOL	PBG	PBG	PBG
A08-01	PBG	PBG	PBG	PBG	PBG
A08-02a	PBG	PBG	PBG	PBG	PBG
A08-03	PBG	PBG	PBG	PBG	PBG
A08-04	INA	INA	INA	PBG	PBG
A09-03R	PBG	PBG	PBG	PBG	PBG
A09-04R	PBG	PBG	PBG	PBG	PBG
A09-05	PBG	PBG	PBG	PBG	PBG
A14-03R	PBG	PBG	PBG	PBG	PBG
A17-01	N/A	N/A	N/A	PBG	PBG
A17-02	PBG	PBG	PBG	PBG	PBG
A17-03	PBG	PBG	PBG	PBG	PBG
A17-04	PBG	PBG	PBG	PBG	PBG
A17-05	PBG	PBG	PBG	PBG	PBG
A17-06	PBG	PBG	PBG	PBG	PBG
A17-07	PBG	PBG	PBG	PBG	PBG
A17-08	PBG	PBG	PBG	PBG	PBG
A17-11R	PBG	PBG	PBG	PBG	PBG
A17-12R	PBG	PBG	PBG	PBG	PBG
A17-13	PBG	PBG	PBG	PBG	PBG
A17-14a	PBG	PBG	PBG	PBG	PBG
A17-14b	N/A	N/A	N/A	N/A	PBG
A20-04	PBG	PBG	PBG	PBG	PBG
A20-06	PBG	PBG	PBG	PBG	PBG
BB03-01R	PBG	PBG	PBG	PBG	PBG
BB04-01R	PBG	PBG	PBG	PBG	PBG
BB05-01R	PBG	PBG	PBG	PBG	PBG
C01-02	PBG	PBG	PBG	PBG	PBG
C01-03	PBG	PBG	PBG	PBG	PBG
C01-06	PBG	PBG	PBG	PBG	PBG
C02-02	PBG	PBG	PBG	PBG	PBG
D05-02R	PBG	PBG	PBG	PBG	PBG
D05-04R	N/A	PBG	PBG	PBG	PBG
D06-01R	PBG	PBG	PBG	PBG	PBG
D08-01R	PBG	SOL	SOL	PBG	PBG
D10-01	PBG	PBG	PBG	PBG	PBG
D11-01	PBG	PBG	PBG	PBG	PBG
D11-02	PBG	PBG	PBG	PBG	PBG

PBG - potential breeding group **INA** - inactive
SOL -solitary RCW **N/A** - group does not exist or is not monitored
CAP - captured (the cluster of cavity trees of 1 group is "captured" by an adjacent group)

Table 3-4 (cont.). Activity status of impacted red-cockaded woodpecker (RCW) clusters from 2004-2008, **Alternative B**, Fort Benning, Georgia.

	2004	2005	2006	2007	2008
D12-01	PBG	PBG	PBG	PBG	PBG
D16-01	PBG	PBG	PBG	PBG	PBG
D16-02	PBG	PBG	PBG	PBG	PBG
D17-01	PBG	PBG	PBG	PBG	PBG
D17-03	PBG	PBG	PBG	PBG	PBG
D17-04R	PBG	PBG	PBG	PBG	PBG
E02-01	PBG	PBG	PBG	PBG	PBG
E04-01	PBG	PBG	PBG	PBG	PBG
F02-01R	INA	SOL	PBG	PBG	PBG
HCC-08R	INA	SOL	SOL	SOL	PBG
HCC-10R	PBG	PBG	PBG	PBG	PBG
HCC-11R	CAP by A07-01	PBG	PBG	PBG	PBG
J01-02R	SOL	PBG	PBG	PBG	PBG
J02-02R	PBG	PBG	PBG	PBG	PBG
J06-03	PBG	PBG	PBG	PBG	PBG
K02-01	PBG	PBG	PBG	PBG	PBG
K08-03	PBG	PBG	PBG	PBG	PBG
K08-04	PBG	PBG	PBG	PBG	PBG
K09-01	PBG	PBG	PBG	PBG	PBG
K09-02R	PBG	PBG	PBG	PBG	PBG
K09-03R	PBG	PBG	PBG	PBG	PBG
K11-02	PBG	PBG	PBG	PBG	PBG
K11-04R	INA	INA	INA	PBG	PBG
K12-01	PBG	PBG	PBG	PBG	PBG
K13-02	PBG	PBG	PBG	PBG	PBG
K13-04	PBG	PBG	PBG	PBG	PBG
K13-05R	PBG	PBG	PBG	PBG	PBG
K13-06	PBG	PBG	PBG	PBG	PBG
K21-02R	PBG	INA	PBG	PBG	PBG
K21-05R	N/A	N/A	N/A	PBG	PBG
KPR-01	PBG	PBG	PBG	PBG	PBG
L02-02R	INA	INA	PBG	PBG	PBG
L03-01	PBG	PBG	PBG	PBG	PBG
M01-01	PBG	PBG	PBG	PBG	PBG
M08-01	PBG	PBG	PBG	PBG	PBG
M08-02a	PBG	PBG	PBG	PBG	PBG
M08-02b	N/A	PBG	PBG	PBG	PBG
M08-04R	PBG	PBG	PBG	PBG	PBG
M08-05R	PBG	PBG	PBG	SOL	PBG

PBG - potential breeding group **INA** - inactive
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CAP - captured (the cluster of cavity trees of 1 group is "captured" by an adjacent group)

Table 3-4 (cont.). Activity status of impacted red-cockaded woodpecker (RCW) clusters from 2004-2008, **Alternative B**, Fort Benning, Georgia.

	2004	2005	2006	2007	2008
N01-02	PBG	PBG	PBG	PBG	PBG
O01-01	PBG	PBG	PBG	PBG	PBG
O01-02	PBG	PBG	PBG	PBG	PBG
O01-03	PBG	PBG	PBG	CAP by 003-01	PBG
O01-04R	PBG	PBG	PBG	SOL	PBG
O02-01R	PBG	PBG	PBG	PBG	PBG
O03-01	INA	PBG	PBG	PBG	PBG
O03-02	PBG	PBG	PBG	PBG	PBG
O03-03	PBG	PBG	PBG	PBG	PBG
O03-04	PBG	PBG	PBG	PBG	PBG
O03-05	PBG	PBG	PBG	PBG	PBG
O03-06R	PBG	PBG	PBG	PBG	PBG
O03-07	N/A	N/A	PBG	PBG	PBG
O04-01	PBG	CAP by O04-03b	PBG	PBG	PBG
O04-03a	PBG	PBG	PBG	PBG	PBG
O04-03b	N/A	PBG	PBG	PBG	PBG
O05-01	PBG	PBG	PBG	PBG	PBG
O05-02	PBG	PBG	PBG	PBG	PBG
O05-03R	PBG	PBG	PBG	PBG	PBG
O07-01R	PBG	PBG	PBG	PBG	PBG
O07-03R	PBG	PBG	INA	PBG	PBG
O08-01	PBG	PBG	PBG	PBG	PBG
O08-02	PBG	PBG	PBG	PBG	PBG
O09-02	PBG	PBG	PBG	PBG	PBG
O10-01	PBG	PBG	PBG	PBG	PBG
O10-02	PBG	PBG	PBG	PBG	PBG
O10-03	CAP by O13-01	PBG	PBG	PBG	CAP by O13-01
O10-04	PBG	PBG	PBG	PBG	PBG
O11-01	PBG	PBG	PBG	PBG	PBG
O11-02R	INA	INA	INA	INA	PBG
O13-01	PBG	INA	PBG	PBG	PBG
O13-06R	PBG	PBG	PBG	PBG	PBG
O14-03R	PBG	PBG	PBG	PBG	PBG
O15-01	PBG	PBG	PBG	PBG	PBG
O15-03	PBG	PBG	PBG	PBG	PBG
Q02-02	PBG	PBG	PBG	PBG	PBG
Q02-03	PBG	PBG	PBG	PBG	PBG
Q02-04R	PBG	PBG	PBG	PBG	PBG
R02-01R	PBG	PBG	PBG	PBG	PBG

PBG - potential breeding group **INA** - inactive
SOL -solitary RCW **N/A** - group does not exist or is not monitored
CAP - captured (the cluster of cavity trees of 1 group is "captured" by an adjacent group)

Table 3-4 (cont.). Activity status of impacted red-cockaded woodpecker (RCW) clusters from 2004-2008, **Alternative B**, Fort Benning, Georgia.

	2004	2005	2006	2007	2008
S01-01	PBG	PBG	PBG	PBG	PBG
S02-01R	PBG	PBG	PBG	PBG	PBG
S03-01R	N/A	INA	INA	PBG	PBG
SHC-02	PBG	PBG	PBG	SOL	SOL
T02-01	INA	INA	SOL	PBG	PBG
T02-02R	CAP BY J02-02	PBG	PBG	PBG	PBG

PBG - potential breeding group **INA** - inactive
SOL -solitary RCW **N/A** - group does not exist or is not monitored
CAP - captured (the cluster of cavity trees of 1 group is "captured" by an adjacent group)

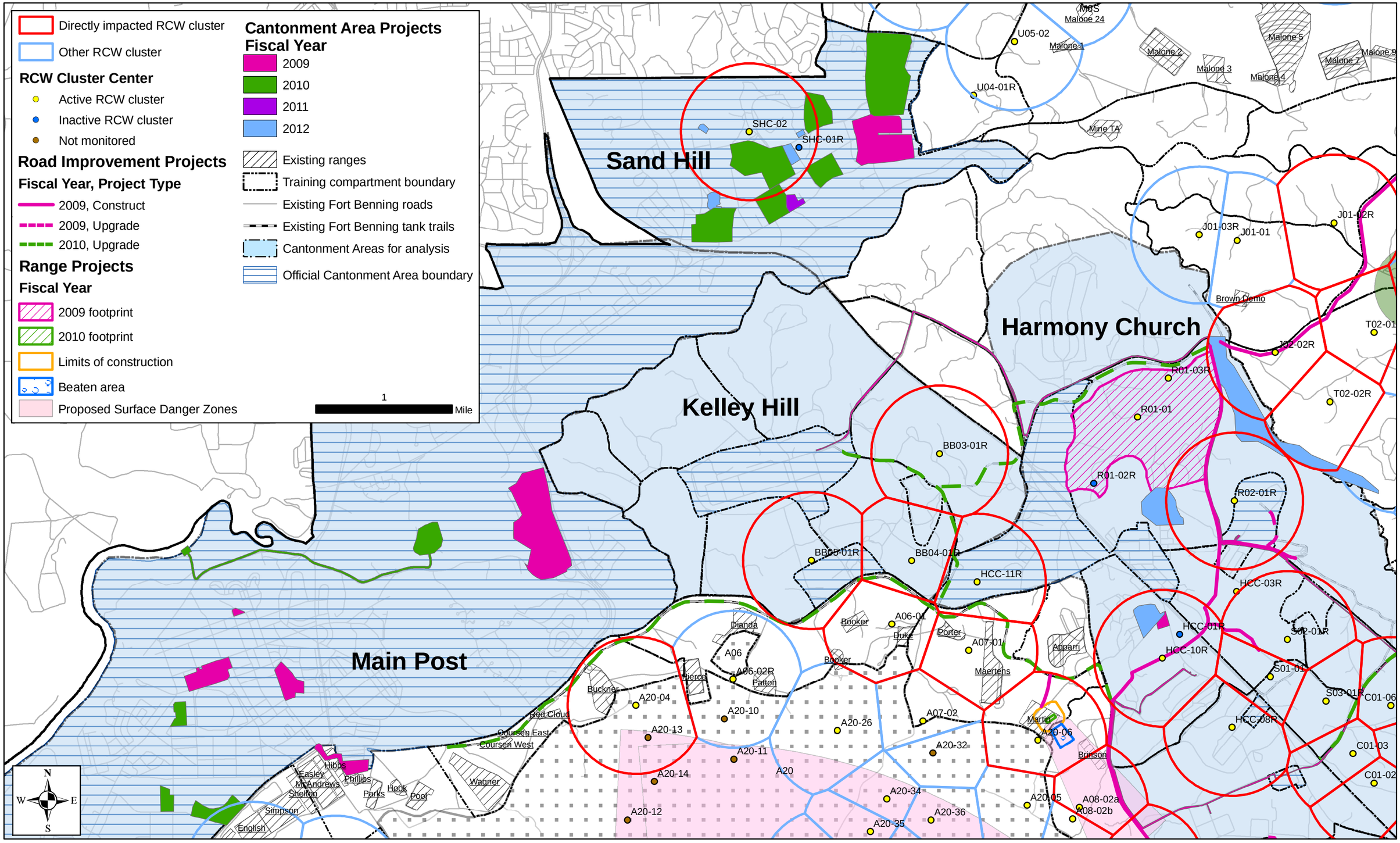


Figure 3-3. Fiscal years 2009-2012 construction activities and operational impacts for proposed projects located within red-cockaded woodpecker (RCW) clusters in the Cantonment Area for the Maneuver Center of Excellence, **Alternative B**, Fort Benning, Georgia.

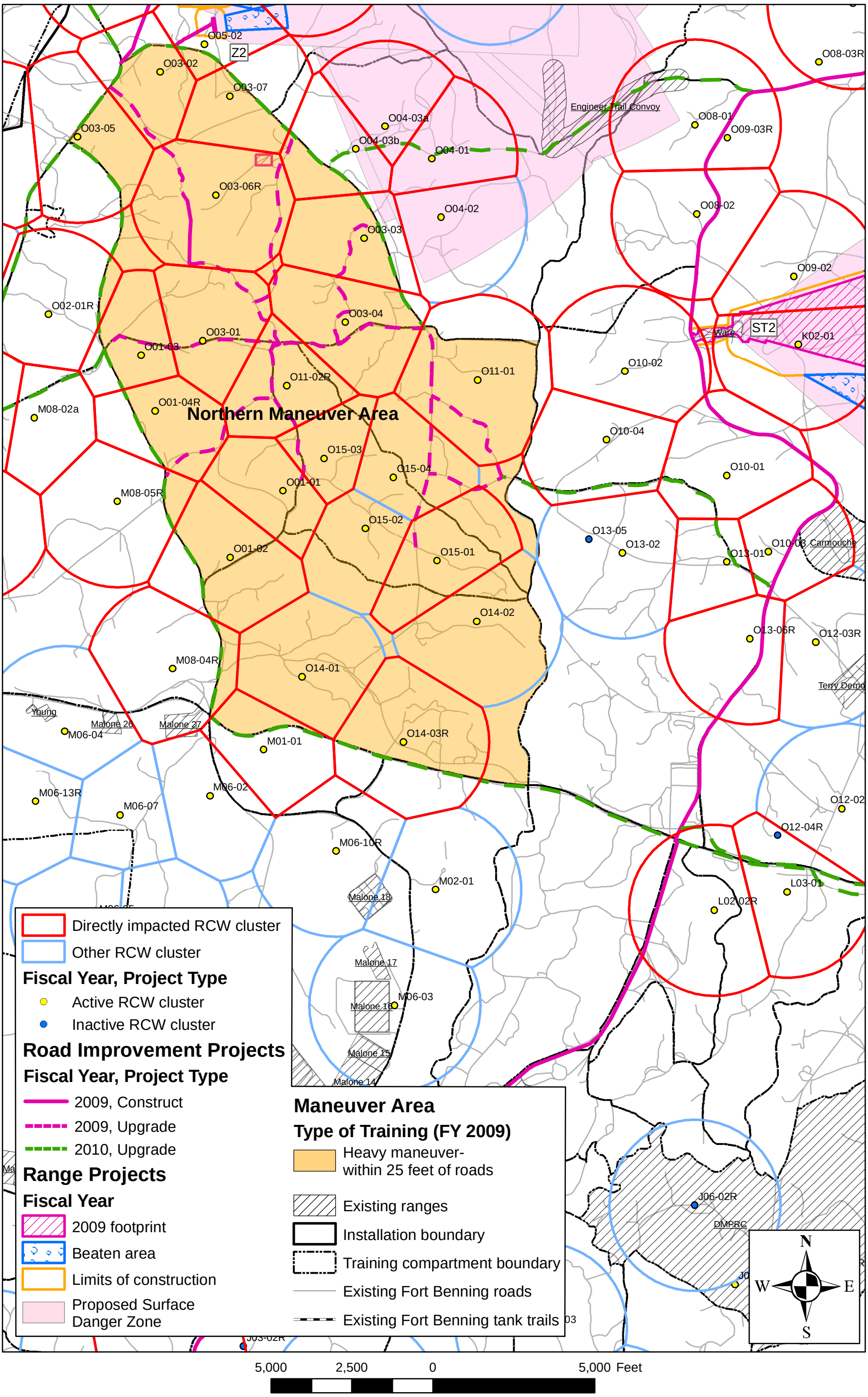


Figure 3-4. Fiscal years 2009-2010 construction activities and operational impacts for proposed projects located within red-cockaded woodpecker (RCW) clusters in the Northern Ranges for the Maneuver Center of Excellence, **Alternative B**, Fort Benning, Georgia.

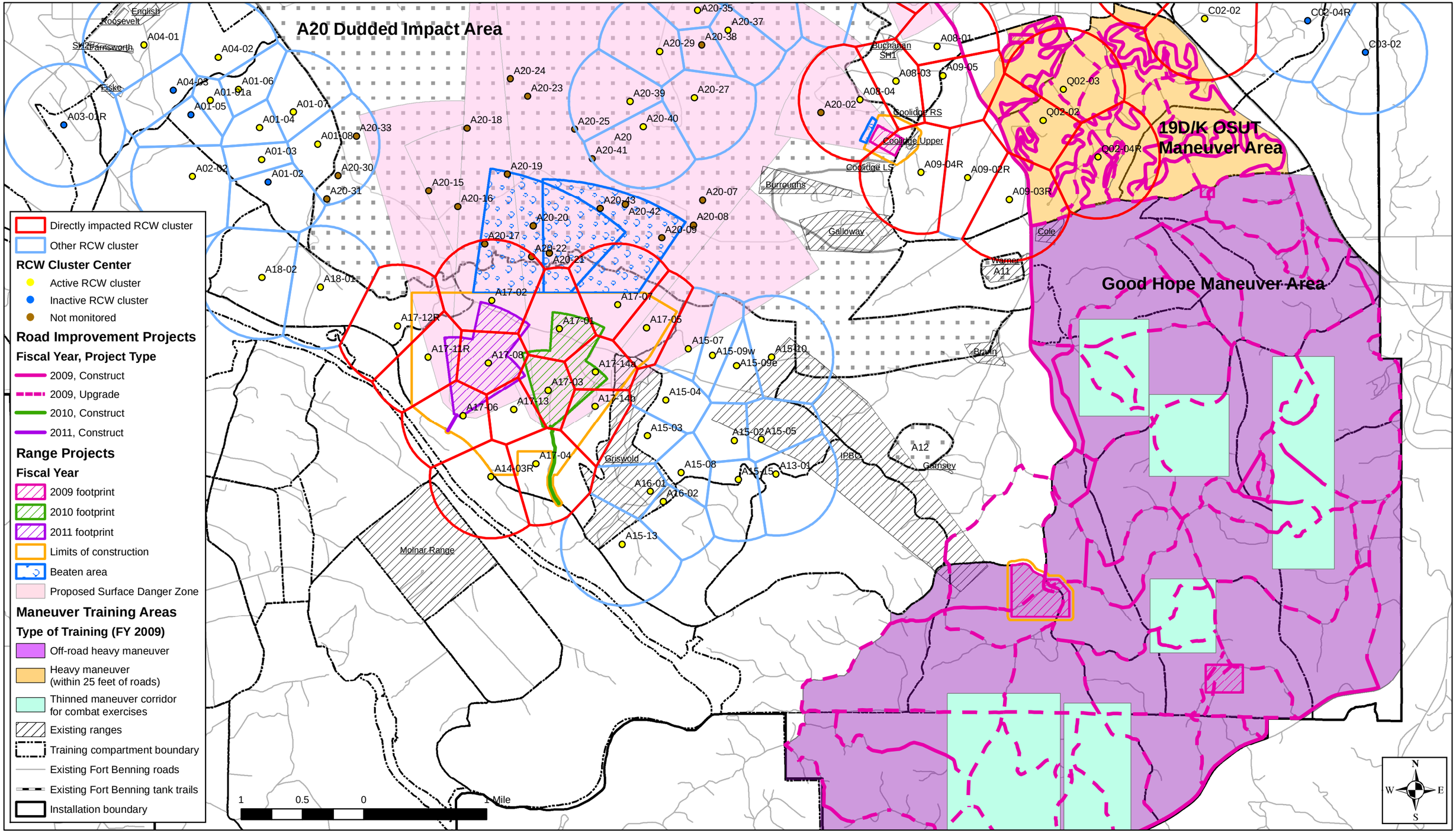


Figure 3-5. Fiscal years 2009-2011 construction activities and operational impacts for proposed projects located within red-cockaded woodpecker (RCW) clusters in the Southern Ranges for the Maneuver Center of Excellence, **Alternative B**, Fort Benning, Georgia.

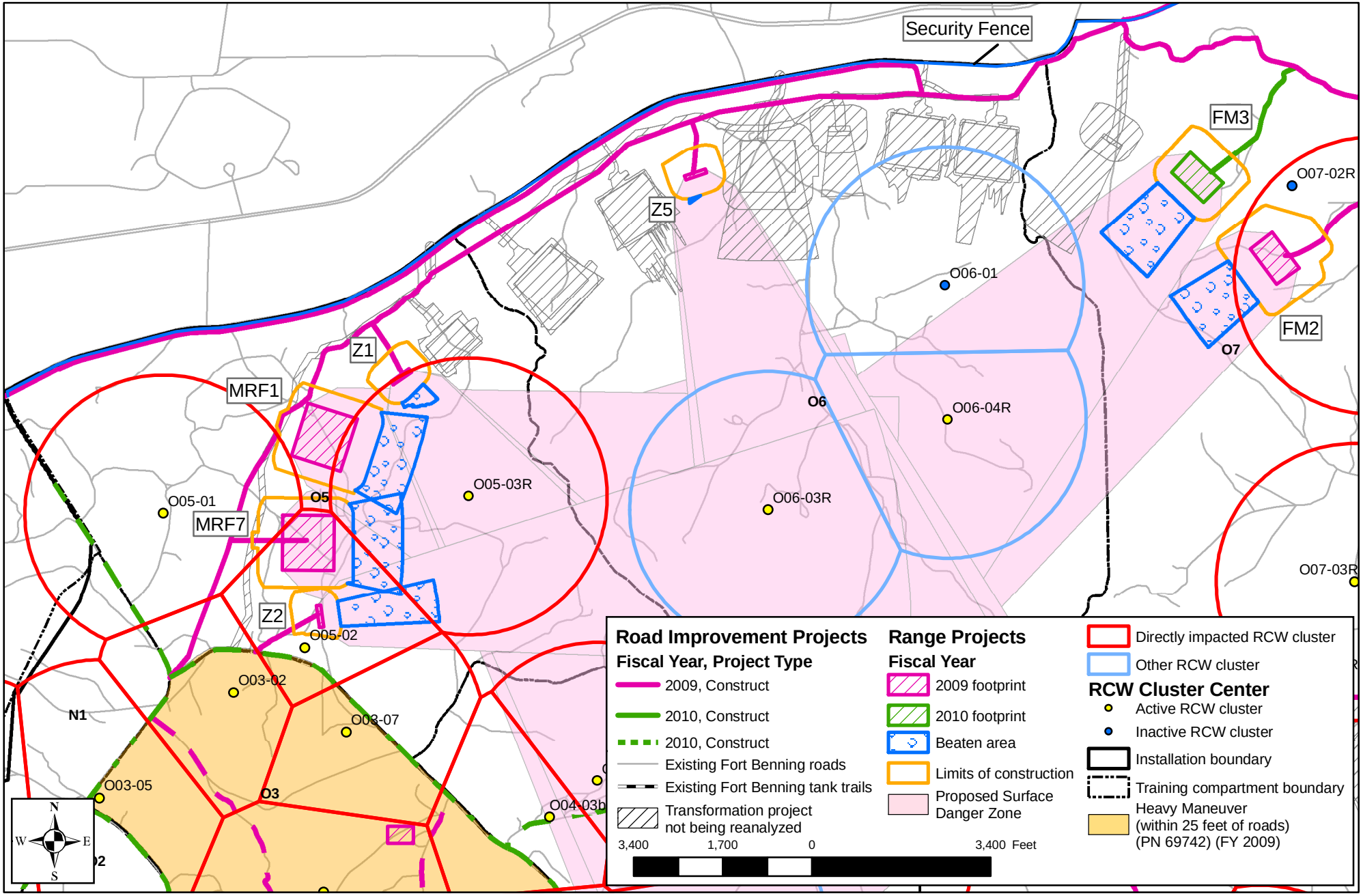


Figure 3-6. Fiscal years 2009-2010 construction activities and operational impacts for proposed projects located in the Oscar Small Arms Range Complex for the Maneuver Center of Excellence, Alternative B, Fort Benning, Georgia. Also shown are the current locations of range projects analyzed in the Transformation Biological Assessment that are not being reanalyzed for this action.

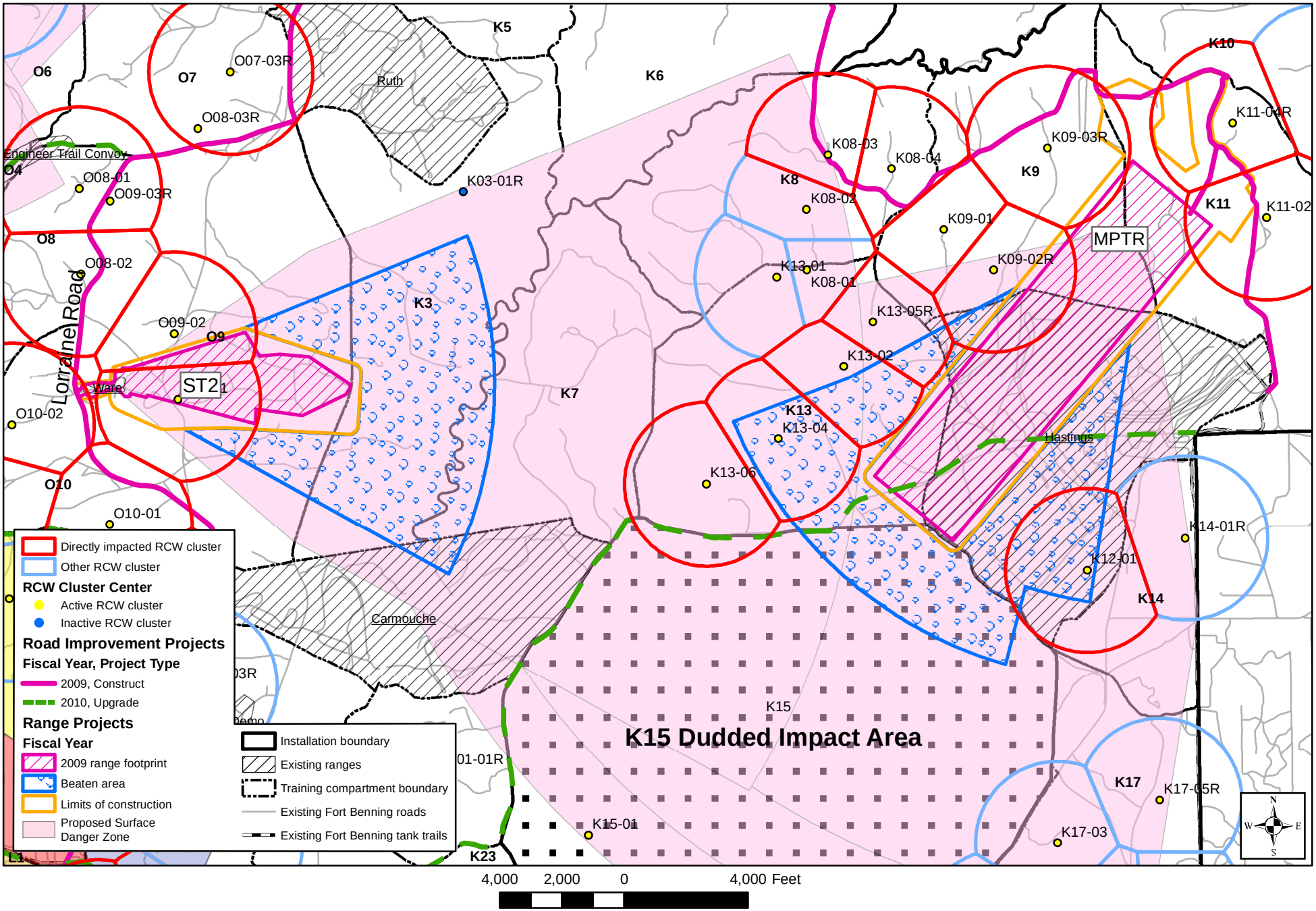


Figure 3-7. Fiscal years 2009-2010 construction activities and operational impacts for proposed projects located in the Northeastern Ranges for the Maneuver Center of Excellence, Alternative B, Fort Benning, Georgia.

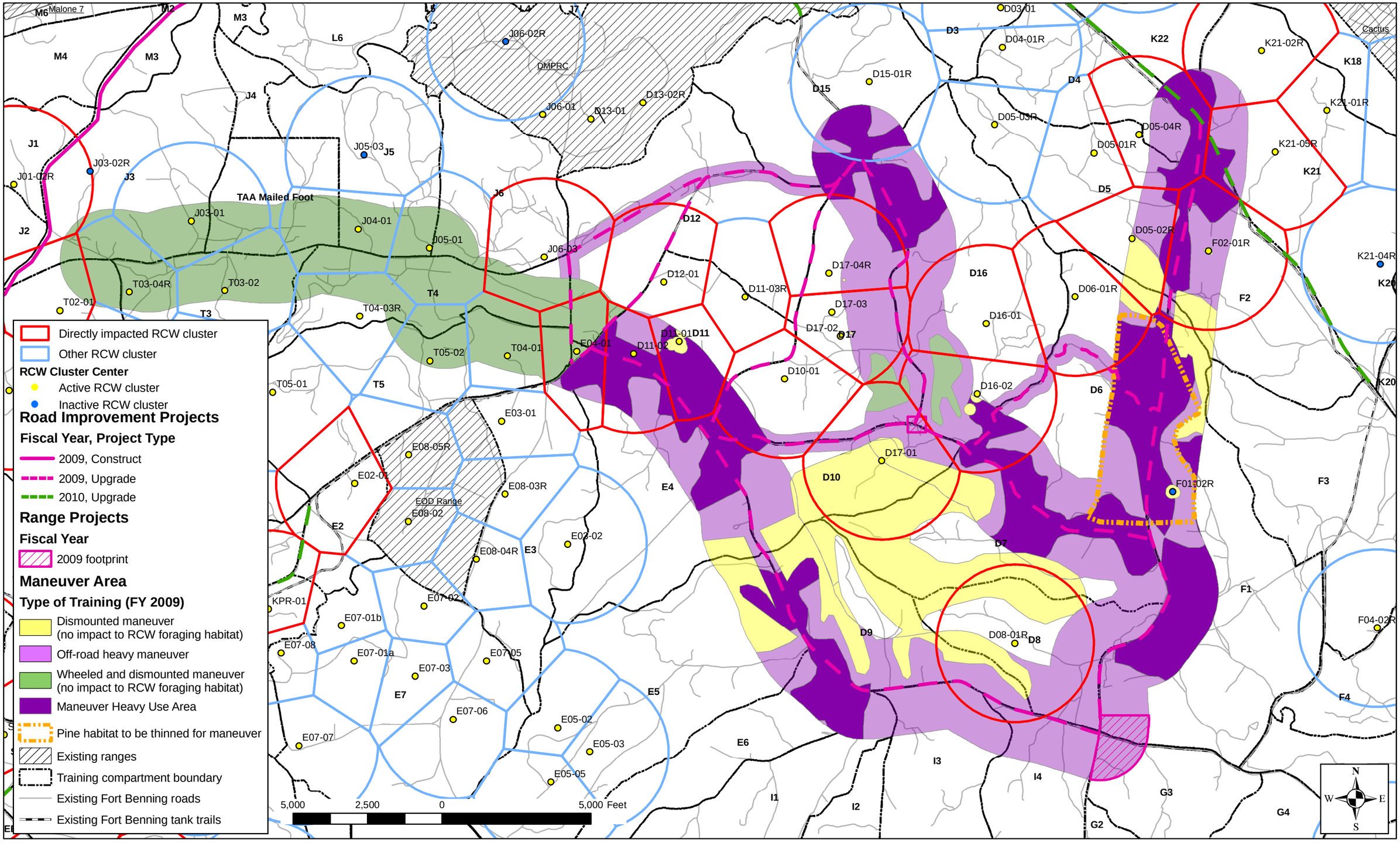
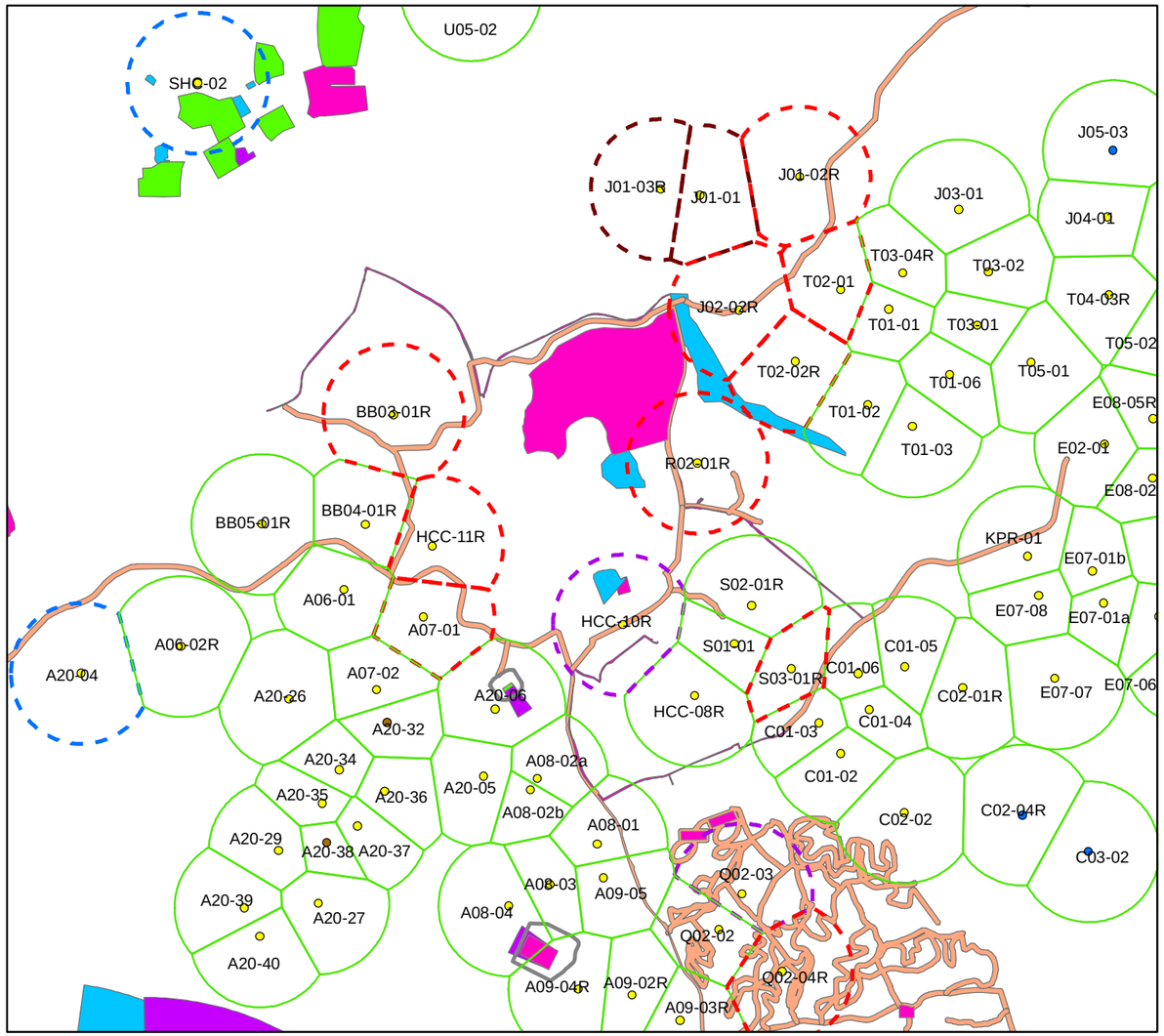


Figure 3-8. Fiscal years 2009-2010 construction activities and operational impacts for proposed projects located within red-cockaded woodpecker (RCW) clusters in the Southern Training Area for the Maneuver Center of Excellence, Alternative B, Fort Benning, Georgia.

PRE-PROJECT



POST-PROJECT

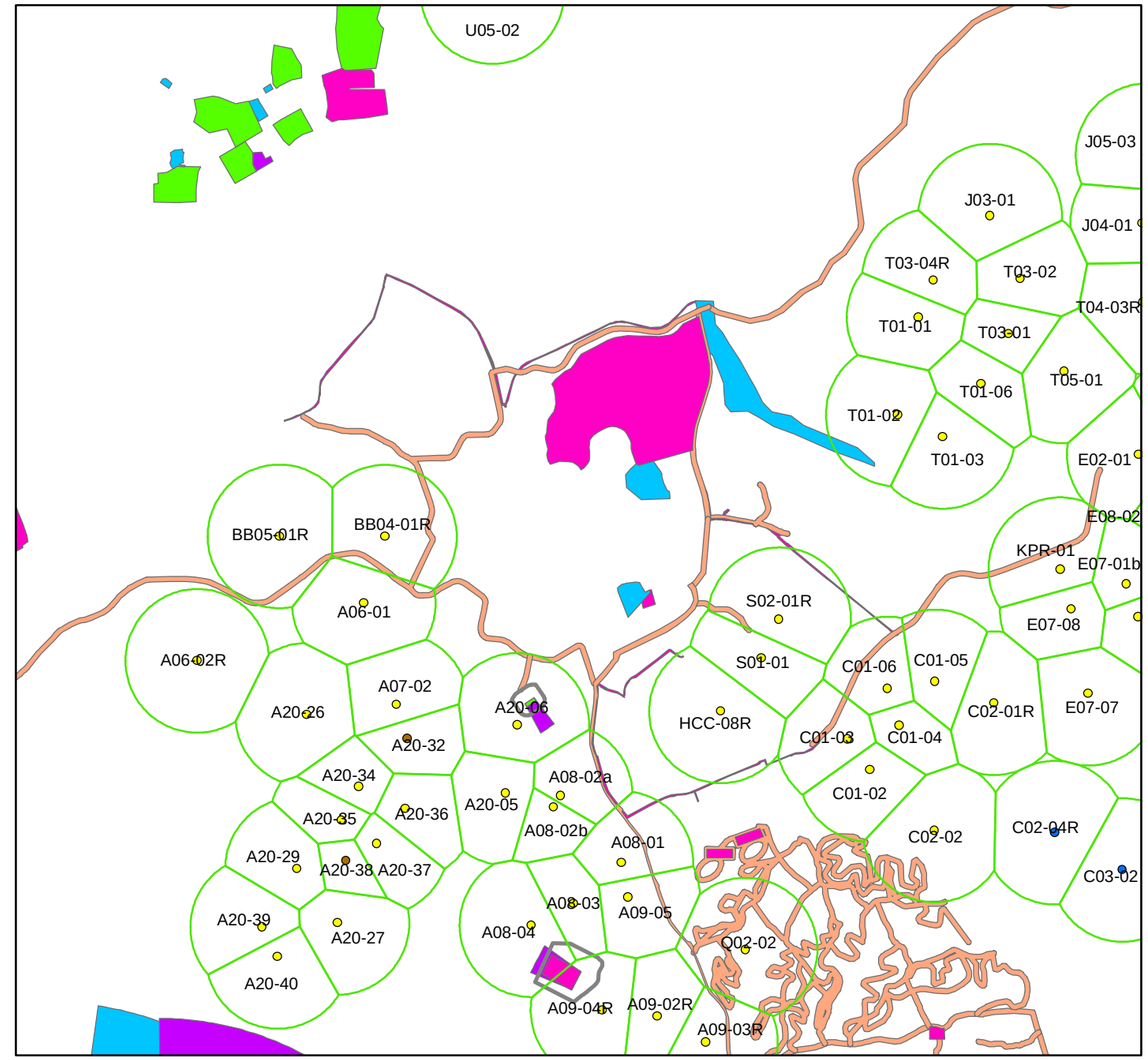


Figure 3-9. Pre- and post- project density of red-cockaded woodpecker (RCW) clusters as a result of Cantonment projects (FY 2009 - 12) and small ranges and associated beaten areas for Alternative B at Fort Benning, Georgia.

0 0.3 0.6 1.2 1.8 2.4 Miles

N W E S

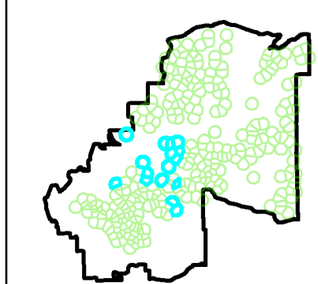
Legend

RCW Cluster
- Active
- Inactive
- Not monitored

RCW Foraging Partition
- Partitions "taken" by project
- Partitions "taken" by harassment
- Partitions "taken" by group impact
- Partitions "taken" by neighborhood impact
- RCW partition boundary

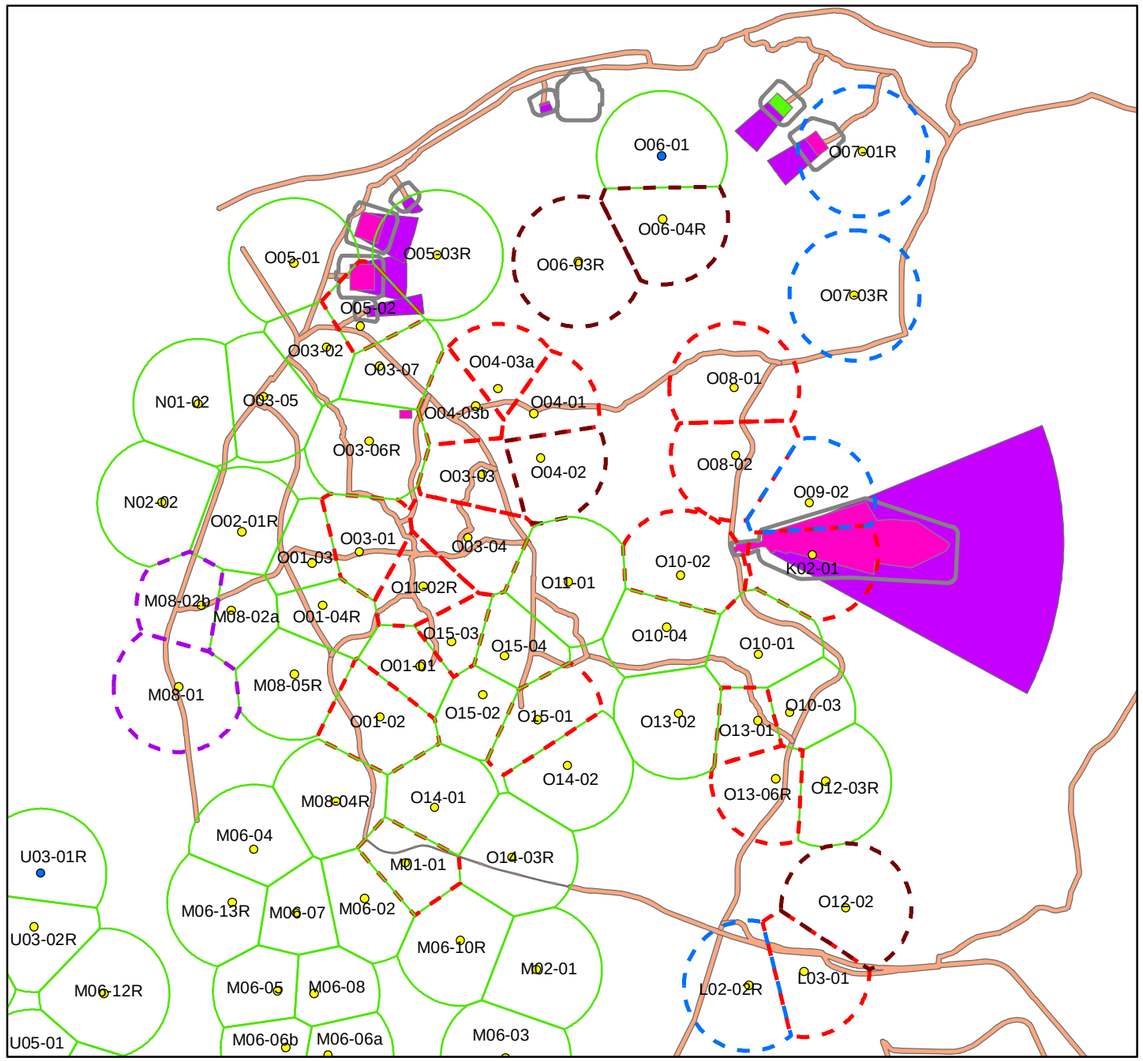
Cantonment and Range Projects Fiscal Year
- 2009
- 2010
- 2011
- 2012

- Construction limits
- Installation Training Area Roads



"Taken" clusters

PRE-PROJECT



POST-PROJECT

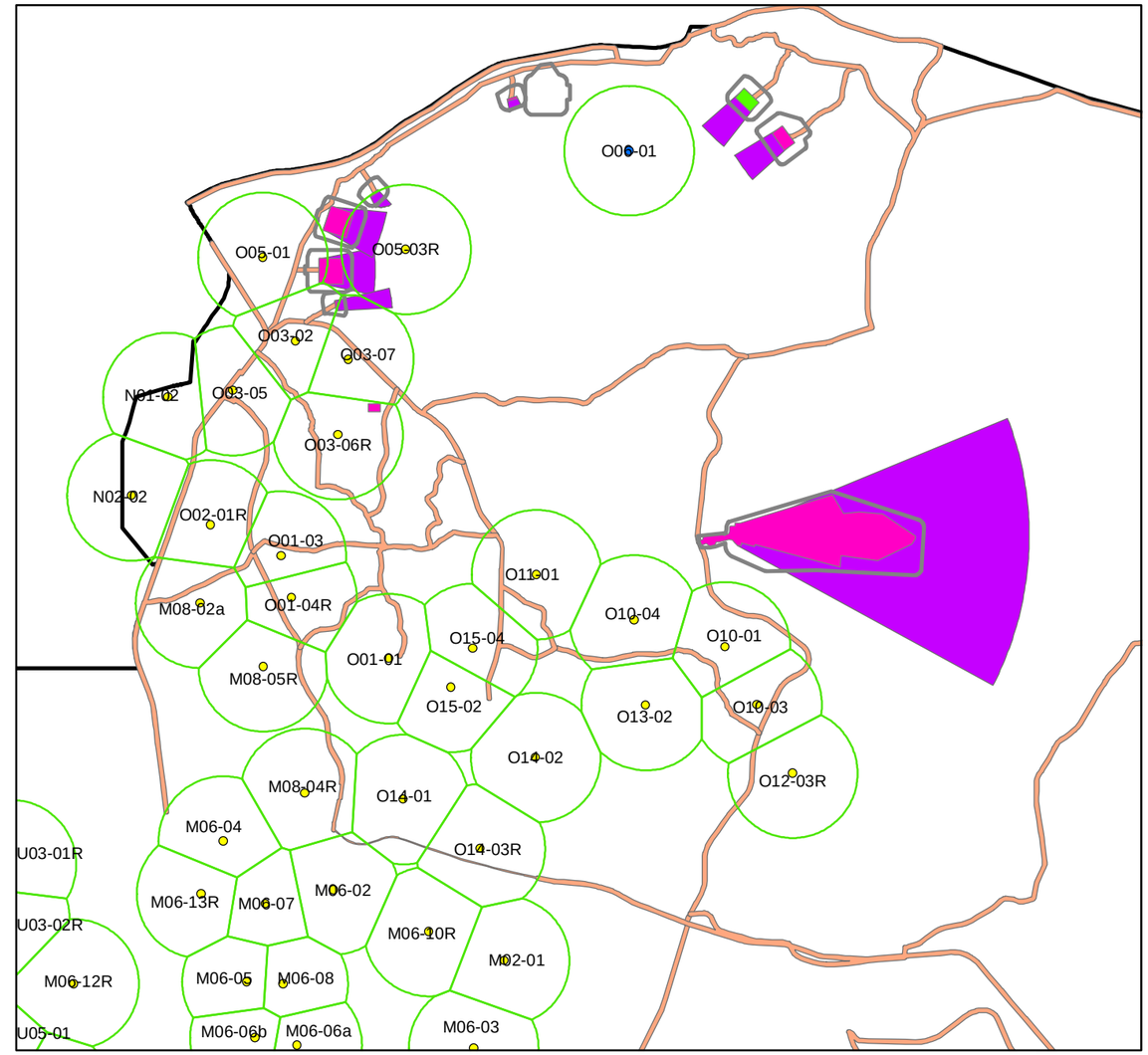
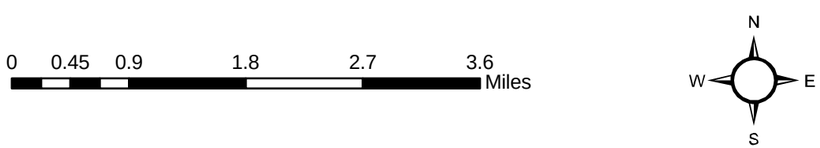


Figure 3-10. Pre- and post- project density of red-cockaded woodpecker (RCW) clusters as a result of Installation Training Area Roads and Northern Ranges, Alternative B, Fort Benning, Georgia.



Legend

RCW Cluster

- Active
- Inactive
- Not monitored

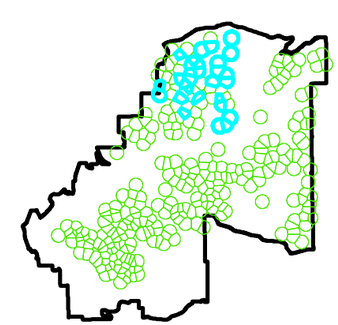
RCW Foraging Partition

- Partitions "taken" by project
- Partitions "taken" by harassment
- Partitions "taken" by group impact
- Partitions "taken" by neighborhood impact
- RCW partition boundary

Northern Ranges Fiscal Year

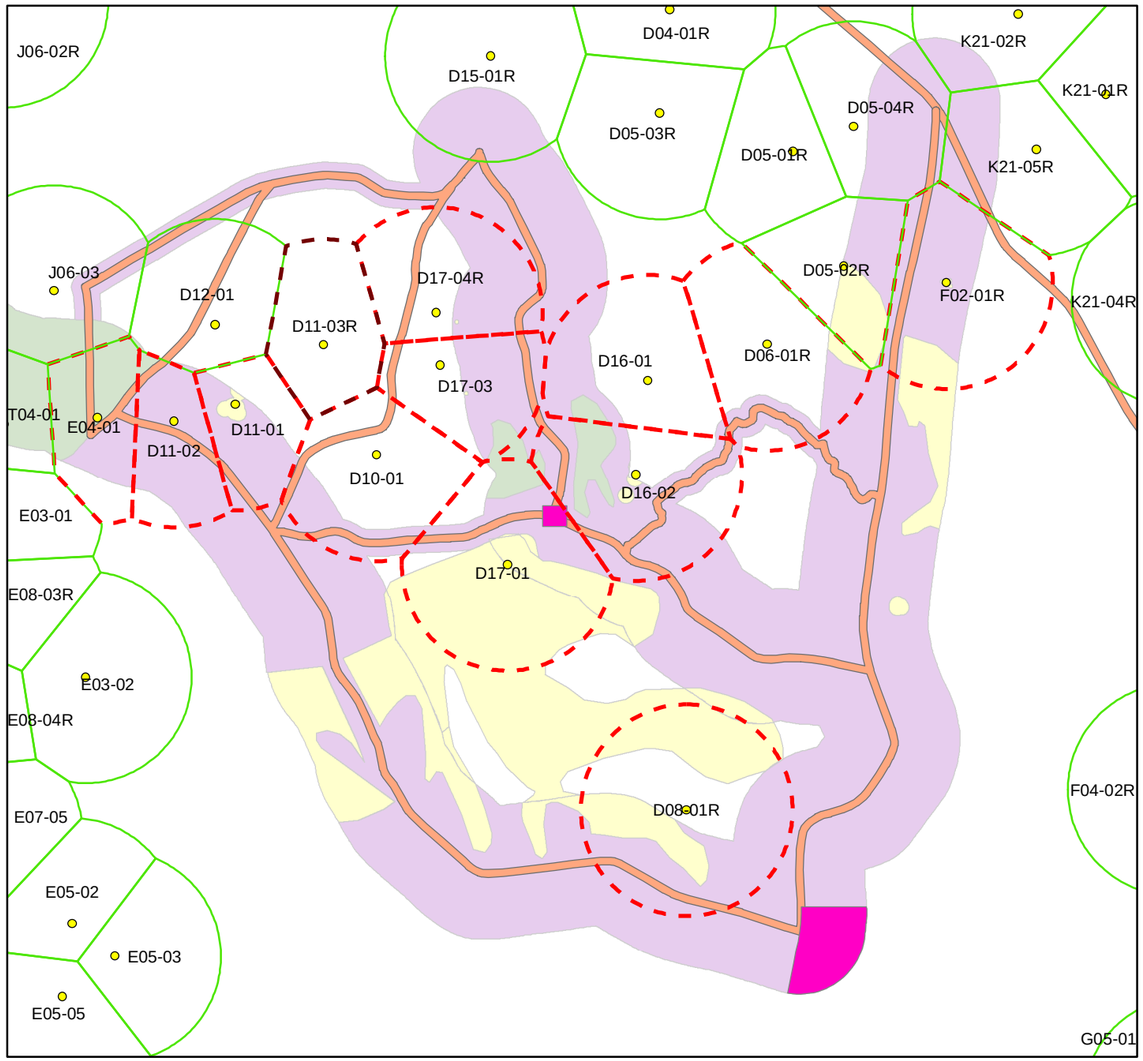
- 2009
- 2010
- 2011

- Construction limits
- Installation Training Area Roads
- Fort Benning boundary



"Taken" clusters

PRE-PROJECT



POST-PROJECT

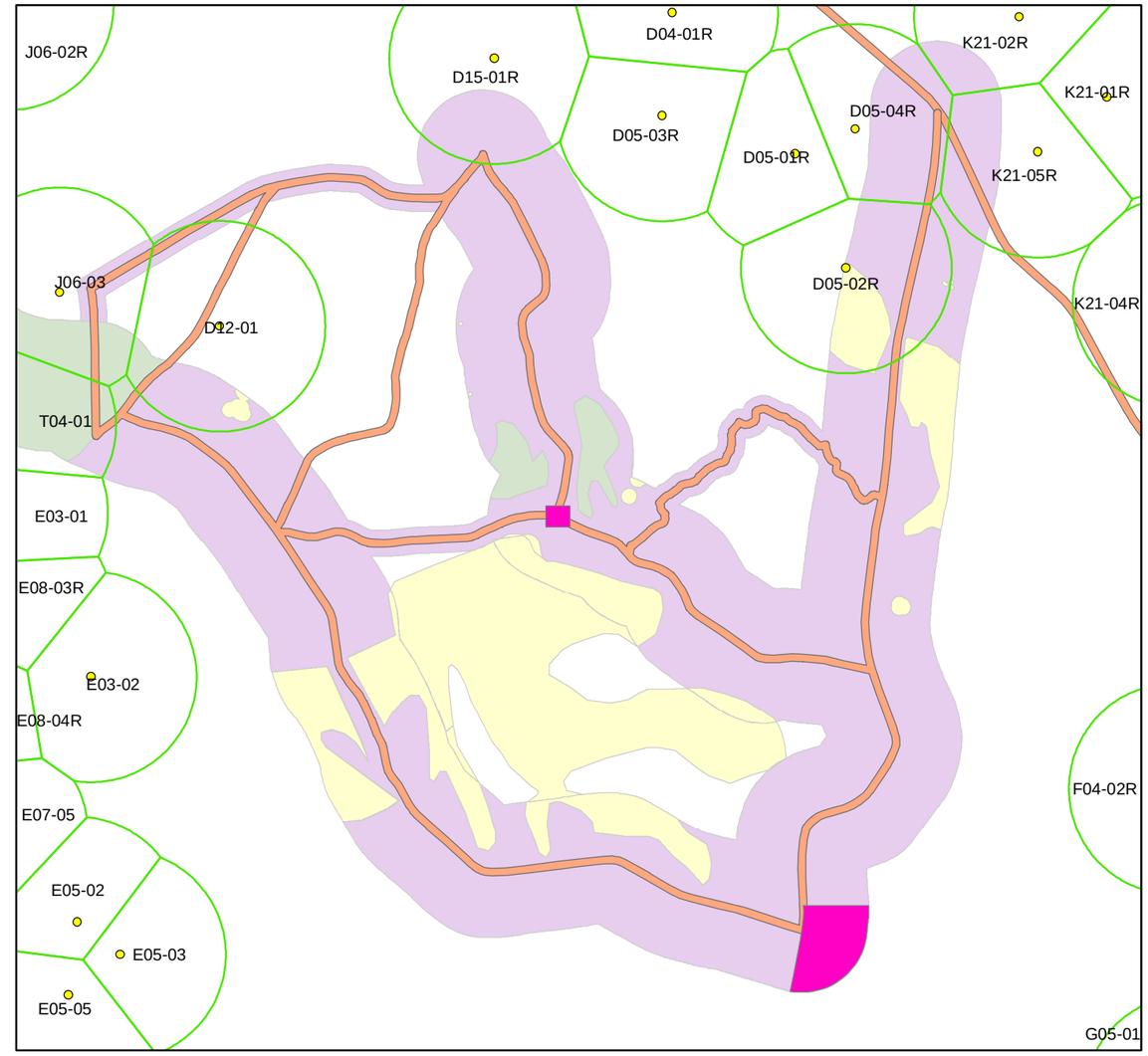


Figure 3-11. Pre- and post- project density of red-cockaded woodpecker (RCW) clusters as a result of Installation Training Area Roads and Southern Maneuver Area Training Impacts, Alternative B, Fort Benning, Georgia.

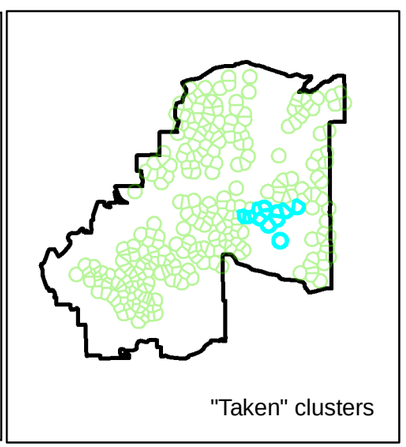
Legend

RCW Cluster
- Active
- Inactive
- Not monitored

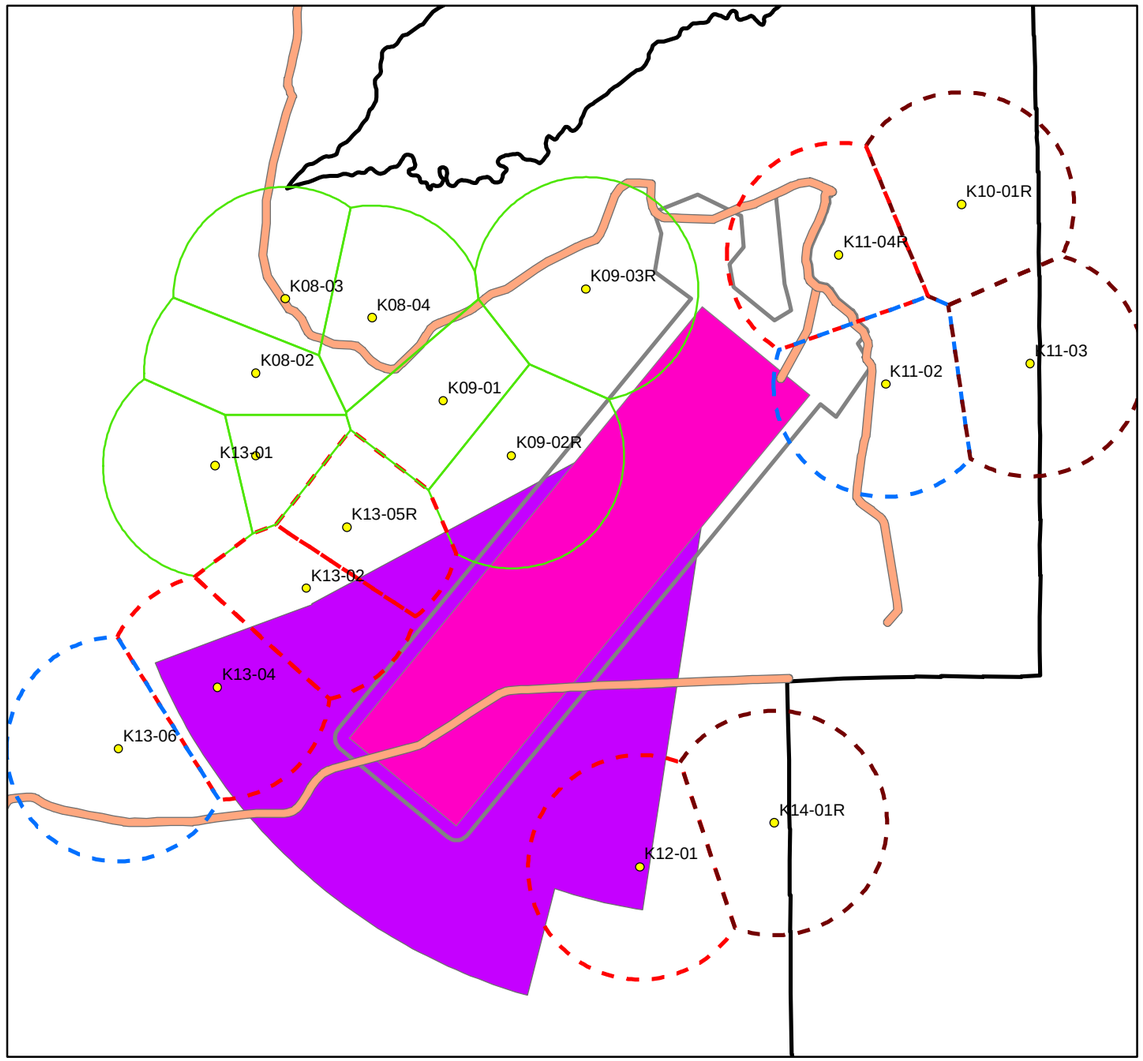
Armor School Training Areas
- Dismounted Only
- Wheeled Vehicle Only
- Heavy Maneuver - Off-Road

RCW Foraging Partition
- Partitions "taken" by project
- Partitions "taken" by neighborhood impact
- RCW partition boundary

Range Projects Fiscal Year
- 2009
- Installation Training Area Roads



PRE-PROJECT



POST-PROJECT

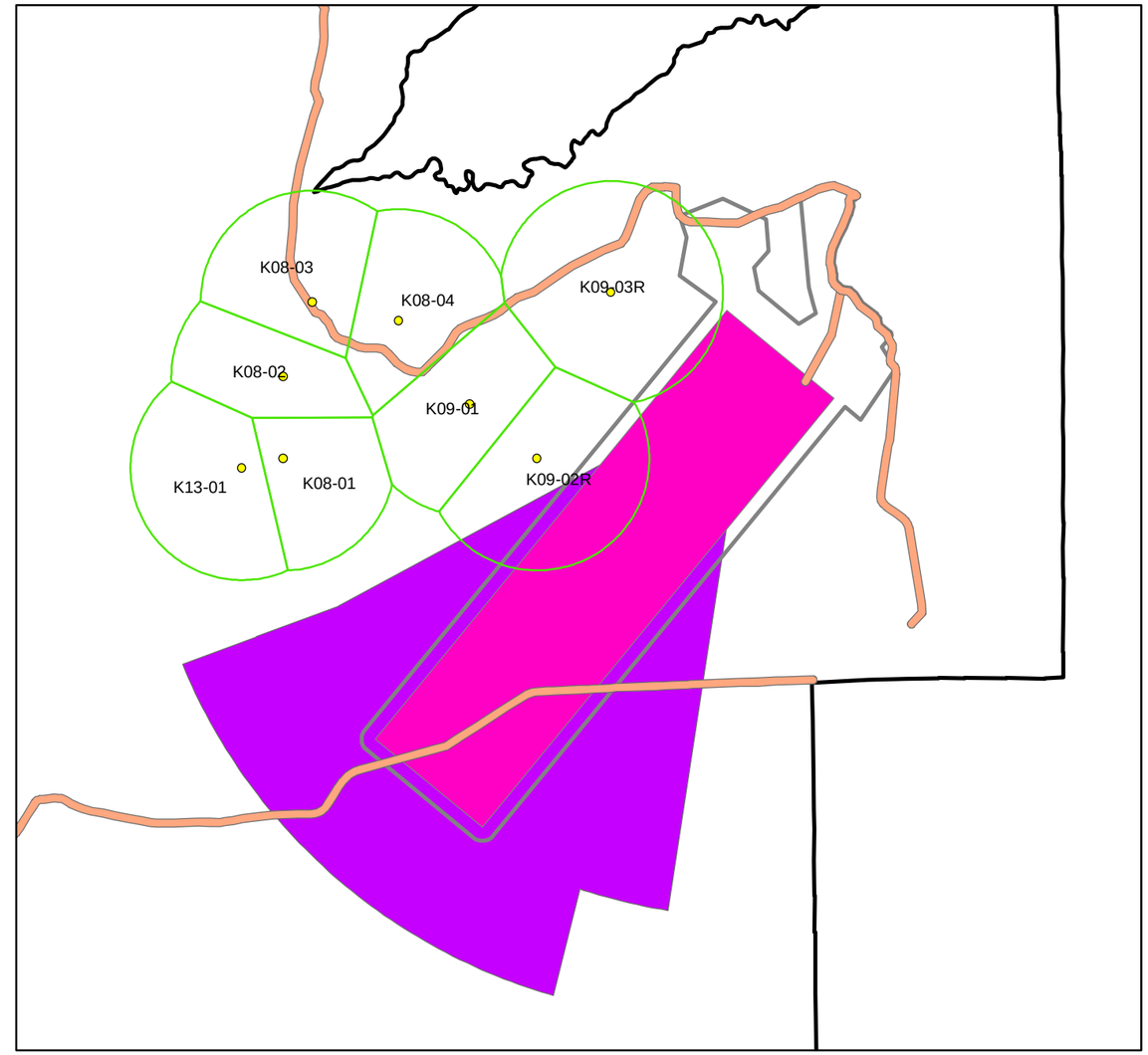


Figure 3-12. Pre- and post- project density of red-cockaded woodpecker (RCW) clusters as a result of Installation Training Area Roads and the Multipurpose Training Range and associated beaten area, Alternative B, Fort Benning, Georgia.

0 0.25 0.5 1 1.5 2 Miles

N W E S

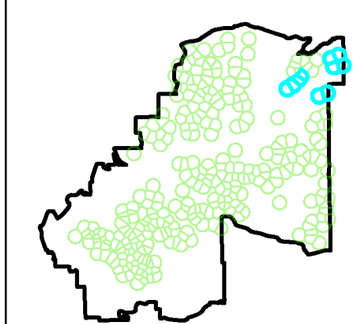
Legend

RCW Cluster
- Active
- Inactive
- Not monitored

Multipurpose Training Range Fiscal Year
- 2009
- 2011

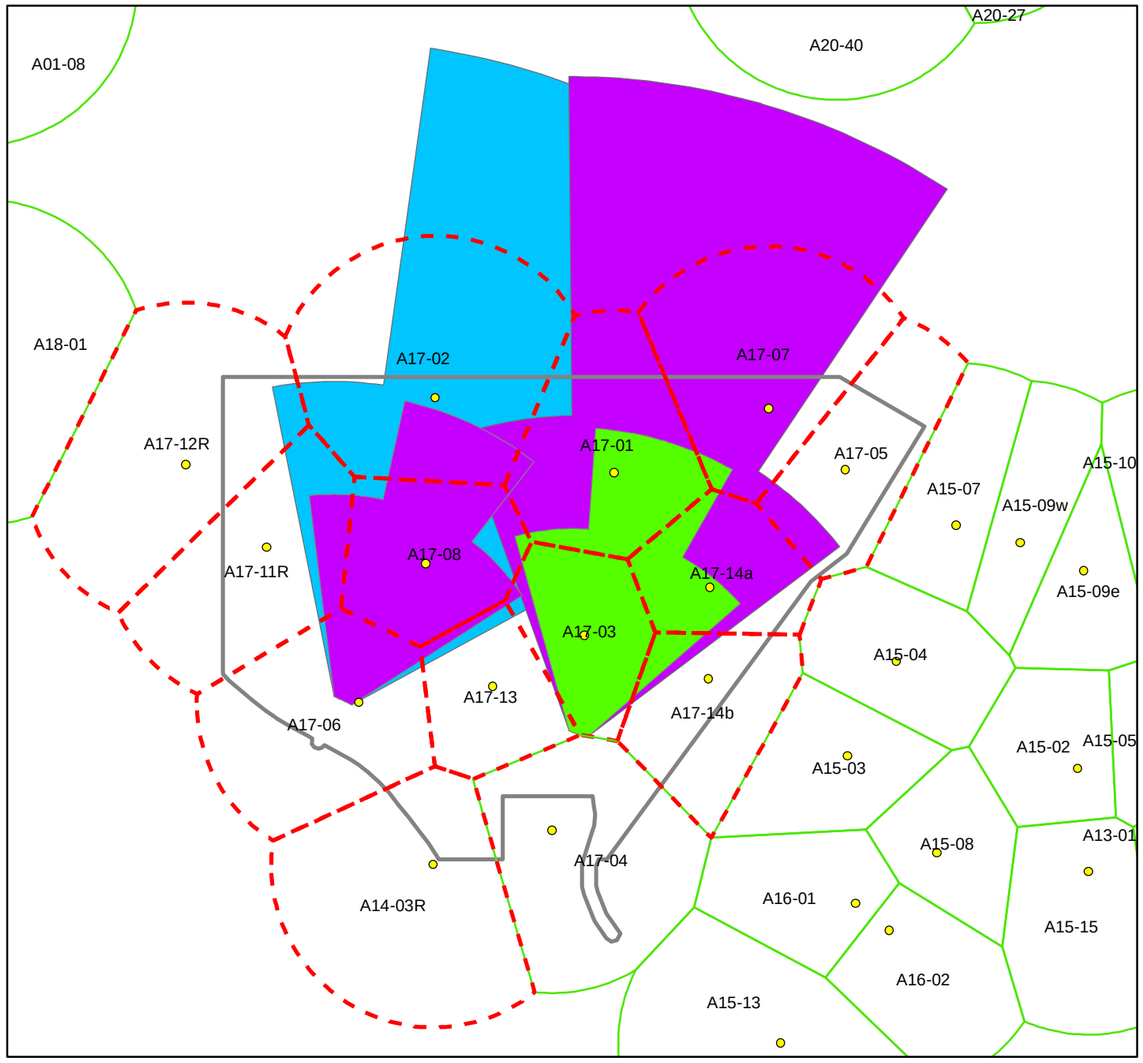
RCW Foraging Partition
- Partitions "taken" by project
- Partitions "taken" by group impact
- Partitions "taken" by neighborhood impact
- RCW partition boundary

- Construction limits
- Installation Training Area Roads
- Fort Benning bounday



"Taken" clusters

PRE-PROJECT



POST-PROJECT

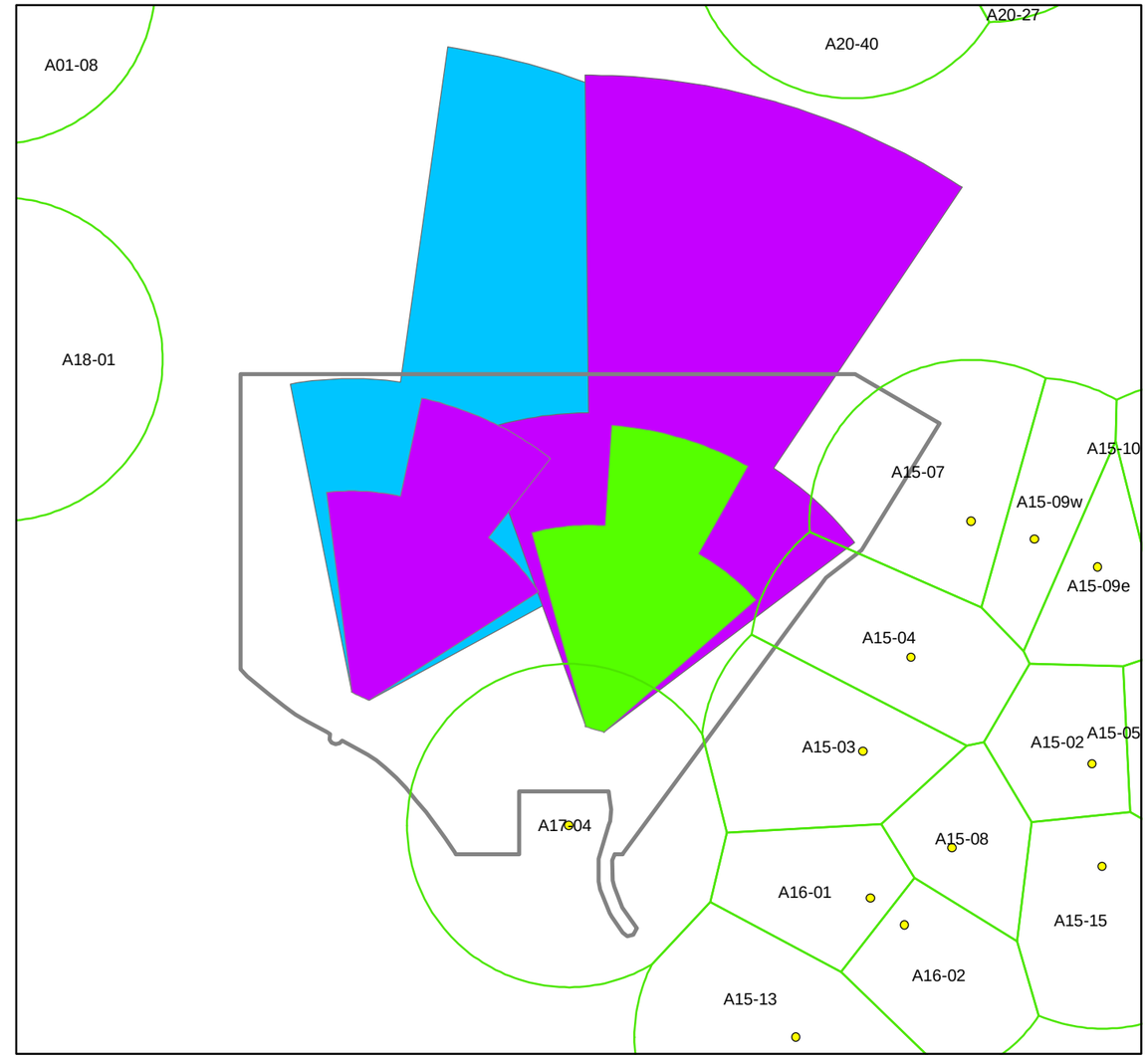
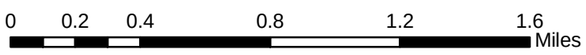
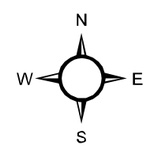


Figure 3-13. Pre- and post- project density of red-cockaded woodpecker (RCW) clusters as a result of the Multipurpose Machine Gun Ranges and associated beaten areas (PN 68733, PN 65070) for Alternative B at Fort Benning, Georgia.





Legend

RCW Cluster
- Active
- Inactive
- Not monitored

RCW Foraging Partition
- Partitions "taken" by project
- RCW partition boundary

Multipurpose Machine Gun Ranges Fiscal Year
- 2010
- 2011
- 2012

- Construction limits

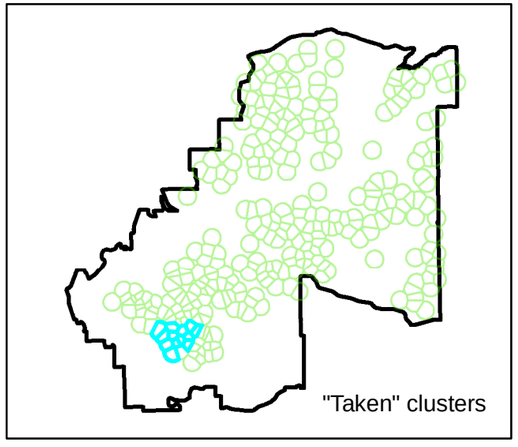


Table 3-5. Direct project impacts for active red-cockaded woodpecker (RCW) clusters for Fiscal Year 2009 using the Standard for Managed Stability (SMS) (USFWS 2003a), **Alternative B** MCOE, Fort Benning, Georgia.

						SMS Foraging Habitat Removals										
						Suitable Habitat Removed		Potentially Suitable Habitat Removed		Future Potential Habitat Removed						
Project Number	Project Name	Location	Cluster Impacted	Total Acres of RCW Habitat Removed	Total BA of RCW Habitat Removed	Acres	BA	Acres	BA	Acres	BA	Habitat Removed Within the A20 Impact Area	Cavity Trees Taken by Project	Cavity Trees With Impacts Within 50 feet	Cavity Trees With Impacts Within 51 - 200 feet	Disturbance due to Noise, Pedestrian or Vehicular Traffic (Y/N)
64551	Multi-purpose Training Range (MPTR)	Northern Ranges	K09-02R	30.87	834.77	12.94	469.82	0.00	0.00	17.93	364.95	–	0	0	0	N
			K09-03R	1.47	50.63	1.47	50.63	0.00	0.00	0.00	0.00	–	0	0	0	N
64551	Construction Limits for Multi-purpose Training Range (MPTR)	Northern Ranges	K09-02R	10.99	300.86	6.19	250.46	0.00	0.00	4.80	50.40	–	0	0	0	N
			K11-02	53.90	2,042.28	47.97	1,894.03	0.00	0.00	5.93	148.25	–	0	0	0	N
			K11-04R	56.28	1,048.55	5.60	226.80	0.00	0.00	50.68	821.75	–	0	0	0	N
64551	Access Road for MPTR	Northern Ranges	K11-02	1.54	62.37	1.54	62.37	0.00	0.00	0.00	0.00	–	0	0	0	N
			K11-04R	4.26	135.33	1.86	75.33	0.00	0.00	2.40	60.00	–	0	0	0	N
64797	Access Road for Drivers Training Area	Harmony Church	R02-01R	6.11	172.38	2.68	88.44	0.00	0.00	3.43	83.94	–	0	0	0	N
65033	Fire and Movement Range (FM2)	Oscar Ranges	O07-01R	8.19	210.90	0.00	0.00	0.00	0.00	8.19	210.90	–	0	0	0	N
	Construction Limits for FM2		O07-01R	26.58	564.70	0.00	0.00	1.28	50.56	25.30	514.14	–	0	0	0	N
	Access Road for FM2		O07-01R	12.58	516.06	0.00	0.00	10.85	466.75	1.73	49.31	–	0	0	0	N
65035	Basic 10M-25M Firing Range (Z1)	Oscar Ranges	O05-03R	0.50	17.22	0.50	17.22	0.00	0.00	0.00	0.00	–	0	0	0	N
	Construction Limits for Z1		O05-03R	3.60	128.01	3.60	128.01	0.00	0.00	0.00	0.00	–	0	0	0	N
65036	Construction Limits for Basic 10M-25M Firing Range (Z2)	Oscar Ranges	O05-02	4.29	149.46	2.47	109.41	0.39	13.55	1.43	26.50	–	0	0	0	N
	Access Road for Z2		003-02	0.42	17.28	0.42	17.28	0.00	0.00	0.00	0.00	–	0	0	0	N
			O05-02	5.24	234.63	5.24	234.63	0.00	0.00	0.00	0.00	–	0	0	0	N
65043	Modified Record Fire Range (MRF1)	Oscar Ranges	O05-03R	1.62	0.00	0.00	0.00	0.00	0.00	1.62	0.00	–	0	0	0	N
	Construction Limits for MRF1		O05-01	0.71	36.34	0.00	0.00	0.00	0.00	0.71	36.34	–	0	0	0	N
			O05-03R	11.19	224.10	5.40	224.10	0.00	0.00	5.79	0.00	–	0	0	0	N
65049	Modified Record Fire Range (MRF7)	Oscar Ranges	O05-01	0.76	36.19	0.76	36.19	0.00	0.00	0.00	0.00	–	0	0	0	N
			O05-02	16.78	614.72	2.86	136.19	0.89	83.66	13.03	394.87	–	0	0	0	N
	Construction Limits for MRF7		O05-01	8.92	488.31	7.55	359.53	1.37	128.78	0.00	0.00	–	0	0	0	N
			O05-02	12.83	587.11	9.14	435.25	0.94	88.36	2.75	63.50	–	0	0	0	N
	Access Road for MRF7		O05-01	2.29	109.05	2.29	109.05	0.00	0.00	0.00	0.00	–	0	0	0	N
65078	Anti-Armor Tracking & Live Fire Complex	Southern Ranges	A08-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.74	0	0	0	N
			A08-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.96	0	0	0	N
			A09-04R	17.11	427.70	0.00	0.00	0.00	0.00	17.11	427.70	–	0	0	0	N
65383	Stationary Tank Range (ST2)	Northern Ranges	K02-01	123.79	2,894.42	0.00	0.00	0.32	10.11	123.47	2,884.31	–	5	–	–	–
			O09-02	30.40	783.52	0.00	0.00	0.00	0.00	30.40	783.52	–	0	0	0	N
			O10-02	1.32	39.85	0.00	0.00	0.61	19.26	0.71	20.59	–	0	0	0	N
	Construction Limits for ST2		K02-01	39.60	899.31	0.00	0.00	0.08	2.53	39.52	896.78	–	0	0	0	N
			O09-02	12.65	316.63	0.00	0.00	0.00	0.00	12.65	316.63	–	0	0	0	N
			O10-02	1.82	55.08	0.00	0.00	0.89	28.11	0.93	26.97	–	0	0	0	N

Table 3-5 (cont.). Direct project impacts for active red-cockaded woodpecker (RCW) clusters for Fiscal Year 2009 using the Standard for Managed Stability (SMS) (USFWS 2003a), **Alternative B** MCOE, Fort Benning, Georgia.

						SMS Foraging Habitat Removals										
						Suitable Habitat Removed		Potentially Suitable Habitat Removed		Future Potential Habitat Removed						
Project Number	Project Name	Location	Cluster Impacted	Total Acres of RCW Habitat Removed	Total BA of RCW Habitat Removed	Acres	BA	Acres	BA	Acres	BA	Habitat Removed Within the A20 Impact Area	Cavity Trees Taken by Project	Cavity Trees With Impacts Within 50 feet	Cavity Trees With Impacts Within 51 - 200 feet	Disturbance due to Noise, Pedestrian or Vehicular Traffic (Y/N)
65554	Construct Training Area Roads Paved	Installation - wide	J01-02R	6.36	229.97	2.88	229.97	0.00	0.00	3.48	0.00	–	0	0	0	N
			J02-02R	16.37	500.35	4.69	199.33	0.00	0.00	11.68	301.02	–	5	3	0	Y
			J06-03	10.18	400.97	10.18	400.97	0.00	0.00	0.00	0.00	–	0	0	0	N
			K08-03	12.50	434.05	12.50	434.05	0.00	0.00	0.00	0.00	–	0	0	1	N
			K08-04	15.14	565.75	13.78	525.63	0.00	0.00	1.36	40.12	–	0	0	0	N
			K09-01	3.43	110.59	1.20	44.80	0.00	0.00	2.23	65.79	–	0	0	0	N
			K09-03R	15.75	403.28	7.76	264.50	0.61	30.50	7.38	108.28	–	0	0	0	N
			K11-02	18.22	500.73	9.83	390.90	0.00	0.00	8.39	109.83	–	0	0	5	N
			K11-04R	19.23	349.11	1.83	79.61	0.00	0.00	17.40	269.50	–	0	0	0	N
			L02-02R	17.33	609.76	13.68	525.04	2.12	63.60	1.53	21.12	–	0	0	0	N
			O03-02	6.97	154.45	2.25	111.32	0.00	0.00	4.72	43.13	–	0	0	0	N
			O05-01	7.10	351.64	6.72	324.56	0.38	27.08	0.00	0.00	–	0	0	0	N
			O07-03R	20.17	582.20	9.34	349.63	0.00	0.00	10.83	232.57	–	0	0	0	N
			O08-01	12.67	321.96	3.05	96.57	0.00	0.00	9.62	225.39	–	0	0	0	N
			O08-02	17.80	516.85	3.70	131.57	0.00	0.00	14.10	385.28	–	0	0	2	N
			O10-01	13.36	314.35	0.00	0.00	4.75	221.39	8.61	92.96	–	0	0	0	N
			O10-02	8.11	231.53	2.98	119.20	0.60	18.95	4.53	93.38	–	0	0	0	N
			O10-03	11.65	328.75	0.41	15.79	7.00	237.58	4.24	75.38	–	0	0	0	N
			O13-06R	18.43	514.98	7.35	273.50	0.00	0.00	11.08	241.48	–	0	1	1	Y
			R02-01R	4.87	179.73	1.84	80.30	0.39	29.47	2.64	69.96	–	0	0	0	N
			T02-01	6.65	200.17	5.07	185.06	0.00	0.00	1.58	15.11	–	0	0	0	N
65554	Construct Training Area Roads-OSUT Maneuver Corridor	Norhtern Ranges	J02-02R	16.37	500.35	4.69	199.33	0.00	0.00	11.68	301.02	–	5	3	0	Y
67457	Infrastructure Support, Incr. 2	Oscar Ranges	A08-01	2.73	75.82	1.33	52.54	0.00	0.00	1.40	23.28	–	0	0	0	N
			A08-02a	0.79	33.97	0.00	0.00	0.79	33.97	0.00	0.00	–	0	0	0	N
			C01-03	3.04	139.74	0.66	40.26	2.36	99.16	0.02	0.32	–	0	0	0	N
			C01-06	3.53	147.84	0.00	0.00	3.53	147.84	0.00	0.00	–	0	0	0	N
			HCC-08R	0.61	26.23	0.61	26.23	0.00	0.00	0.00	0.00	–	0	0	0	N
			HCC-10R	2.78	87.90	2.45	79.73	0.19	8.17	0.14	0.00	–	0	0	0	N
			R02-01R	3.91	189.16	1.77	80.22	1.08	81.60	1.06	27.34	–	0	0	0	N
			S02-01R	0.99	13.86	0.00	0.00	0.00	0.00	0.99	13.86	–	0	0	0	N
			S03-01R	1.20	51.60	0.00	0.00	1.20	51.60	0.00	0.00	–	0	0	0	N

Table 3-5 (cont.). Direct project impacts for active red-cockaded woodpecker (RCW) clusters for Fiscal Year 2009 using the Standard for Managed Stability (SMS) (USFWS 2003a), **Alternative B** MCOE, Fort Benning, Georgia.

						SMS Foraging Habitat Removals										
						Suitable Habitat Removed		Potentially Suitable Habitat Removed		Future Potential Habitat Removed						
Project Number	Project Name	Location	Cluster Impacted	Total Acres of RCW Habitat Removed	Total BA of RCW Habitat Removed	Acres	BA	Acres	BA	Acres	BA	Habitat Removed Within the A20 Impact Area	Cavity Trees Taken by Project	Cavity Trees With Impacts Within 50 feet	Cavity Trees With Impacts Within 51 - 200 feet	Disturbance due to Noise, Pedestrian or Vehicular Traffic (Y/N)
69358	Range Access Road - Good Hope MTA	Southern Ranges	A08-01	3.52	132.60	1.93	78.20	1.16	44.08	0.43	10.32	–	0	0	0	N
			A08-02a	2.30	84.50	1.80	63.00	0.50	21.50	0.00	0.00	–	0	0	0	N
			A09-03R	5.09	172.29	0.69	25.30	4.40	146.99	0.00	0.00	–	0	1	1	Y
			A09-05	4.18	150.10	3.83	140.60	0.15	4.50	0.20	5.00	–	0	1	1	Y
			HCC-10R	13.64	493.44	13.22	475.83	0.39	16.77	0.03	0.84	–	2	2	5	Y
			Q02-02	3.66	121.78	1.11	42.74	2.55	79.04	0.00	0.00	–	0	0	0	N
			S01-01	0.80	33.24	0.80	33.24	0.00	0.00	0.00	0.00	–	0	0	0	N
			S02-01R	6.80	286.32	6.80	286.32	0.00	0.00	0.00	0.00	–	0	0	0	N
69668	Good Hope Training Area Infrastructure	Southern Ranges	A09-03R	1.19	0.00	0.00	0.00	0.00	0.00	1.19	0.00	–	0	0	0	N
			Q02-04R	5.35	215.74	2.16	90.72	3.02	125.02	0.17	0.00	–	0	0	0	N
69668	Good Hope Maneuver Heavy Use Area	Southern Ranges	Q02-04R	6.14	265.46	0.00	0.00	6.14	265.46	0.00	0.00	–	0	0	0	N
69741	Alternate 19D/K OSUT Training Area	Northern Ranges	C02-02	27.82	618.33	16.56	591.28	0.00	0.00	11.26	27.05	–	0	0	0	N
			Q02-03	93.28	3,765.43	26.79	1,137.52	52.87	2,551.56	13.62	76.35	–	3	2	4	Y
			Q02-04R	99.85	2,373.22	43.10	1,524.64	16.75	766.18	40.00	82.40	–	1	1	3	Y
69741	Alternate 19D/K OSUT Training Area-Update and Construct Tank Trails	Northern Ranges	A09-03R	8.49	284.36	6.56	232.20	1.63	52.16	0.30	0.00	–	0	0	0	N
			C01-02	2.34	78.81	0.00	0.00	2.34	78.81	0.00	0.00	–	0	0	0	N
			Q02-02	48.35	1,769.56	16.17	610.55	30.37	1,159.01	1.81	0.00	–	0	0	3	N
69742	Northern Training Area Infrastructure	Northern Ranges	O11-01	13.63	222.46	3.38	144.54	1.46	70.92	8.79	7.00	–	0	0	0	N
			O11-02R	14.93	593.01	13.77	563.43	0.00	0.00	1.16	29.58	–	0	0	0	N
			O15-01	1.07	21.13	0.00	0.00	0.00	0.00	1.07	21.13	–	0	0	1	N
69742	Northern Training Area Infrastructure	Northern Ranges	O15-03	4.60	148.44	2.83	103.30	0.00	0.00	1.77	45.14	–	0	0	0	N
69742	Northern Training Area Infrastructure-Upgrade Tank Trails	Northern Ranges	M08-05R	1.04	20.84	0.00	0.00	0.30	9.49	0.74	11.35	–	0	0	0	N
			O01-01	2.31	95.33	2.31	95.33	0.00	0.00	0.00	0.00	–	0	0	4	N
			O01-03	10.47	350.74	1.52	68.40	3.58	161.10	5.37	121.24	–	0	0	4	N
			O01-04R	10.34	300.81	6.18	220.43	0.77	31.19	3.39	49.19	–	0	0	0	N
			O03-01	11.28	331.90	1.00	40.00	4.74	167.60	5.54	124.30	–	6	1	2	Y
			O03-02	10.75	379.23	6.87	271.55	0.00	0.00	3.88	107.68	–	0	0	0	N
			O03-03	10.25	275.13	4.41	229.32	0.00	0.00	5.84	45.81	–	4	2	1	Y
			O03-04	22.92	356.64	4.05	132.38	0.00	0.00	18.87	224.26	–	0	0	5	N
			O03-06R	26.38	823.89	13.69	468.29	0.00	0.00	12.69	355.60	–	0	0	0	N
69742	Northern Training Area Infrastructure-Construct Tank Trails	Northern Ranges	O03-06R	4.94	182.22	4.94	182.22	0.00	0.00	0.00	0.00	–	0	0	0	N

Table 3-5 (cont.). Direct project impacts for active red-cockaded woodpecker (RCW) clusters for Fiscal Year 2009 using the Standard for Managed Stability (SMS) (USFWS 2003a), **Alternative B** MCOE, Fort Benning, Georgia.

						SMS Foraging Habitat Removals										
						Suitable Habitat Removed		Potentially Suitable Habitat Removed		Future Potential Habitat Removed						
Project Number	Project Name	Location	Cluster Impacted	Total Acres of RCW Habitat Removed	Total BA of RCW Habitat Removed	Acres	BA	Acres	BA	Acres	BA	Habitat Removed Within the A20 Impact Area	Cavity Trees Taken by Project	Cavity Trees With Impacts Within 50 feet	Cavity Trees With Impacts Within 51 - 200 feet	Disturbance due to Noise, Pedestrian or Vehicular Traffic (Y/N)
69742	Support Staging Area	Northern Ranges	O03-06R	3.71	113.48	3.71	113.48	0.00	0.00	0.00	0.00	–	0	0	0	N
69743	Southern Training Area Infrastructure Urban Training Site	Southern Ranges	D16-02	0.24	4.92	0.00	0.00	0.00	0.00	0.24	4.92	–	0	0	0	N
			D17-01	6.74	161.17	2.63	103.46	0.00	0.00	4.11	57.71	–	0	0	0	N
69743	Southern Training Area Infrastructure - Maneuver Area	Southern Ranges	D05-02R	61.38	2,118.25	34.50	1,526.89	0.00	0.00	26.88	591.36	–	0	0	4	N
			D05-04R	127.55	4,527.36	102.40	4,223.05	0.00	0.00	25.15	304.31	–	0	0	0	N
			D06-01R	30.17	399.61	0.03	0.95	0.00	0.00	30.14	398.66	–	0	0	0	N
			D08-01R	83.72	2,618.92	46.40	1,924.82	0.00	0.00	37.32	694.10	–	0	0	0	N
			D10-01	8.59	29.05	0.00	0.00	0.00	0.00	8.59	29.05	–	0	0	0	N
			D11-01	78.96	1,795.76	46.34	1,728.40	0.00	0.00	32.62	67.36	–	0	0	0	N
			D11-02	125.66	4,032.61	82.13	3,041.24	0.00	0.00	43.53	991.37	–	7	–	–	–
			D12-01	6.74	210.13	3.44	133.46	0.00	0.00	3.30	76.67	–	0	1	2	Y
			D16-01	47.90	916.97	0.00	0.00	18.50	619.75	29.40	297.22	–	0	0	0	N
			D16-02	138.45	2,374.25	12.84	446.72	0.00	0.00	125.61	1,927.53	–	0	0	0	N
			D17-01	71.34	2,196.00	46.39	1,735.41	0.00	0.00	24.95	460.59	–	0	0	1	N
			D17-03	99.69	2,959.41	56.87	2,114.36	0.00	0.00	42.82	845.05	–	0	0	0	N
			D17-04R	79.71	2,347.45	35.73	1,306.25	0.00	0.00	43.98	1,041.20	–	0	1	3	Y
			E04-01	44.07	1,577.90	35.58	1,286.76	0.00	0.00	8.49	291.14	–	0	2	1	Y
			F02-01R	103.00	2,784.30	28.78	1,244.09	0.00	0.00	74.22	1,540.21	–	0	5	–	Y
			J06-03	21.68	786.58	17.78	671.53	0.00	0.00	3.90	115.05	–	0	0	0	N
			K21-02R	36.85	1,394.69	32.19	1,285.04	0.00	0.00	4.66	109.65	–	0	0	0	N
			K21-05R	59.24	2,375.07	59.21	2,374.50	0.00	0.00	0.03	0.57	–	0	0	0	N
69743	Southern Training Area Infrastructure-Upgrade Paved Road and Tank Trails	Southern Ranges	D05-04R	9.59	385.48	8.36	372.56	0.00	0.00	1.23	12.92	–	0	0	0	N
			D06-01R	9.25	93.63	0.00	0.00	0.00	0.00	9.25	93.63	–	0	0	0	N
			D08-01R	2.22	52.73	0.00	0.00	0.00	0.00	2.22	52.73	–	0	0	0	N
			D10-01	9.30	132.04	2.50	87.75	0.00	0.00	6.80	44.29	–	0	0	2	N
			D11-01	5.53	152.47	3.52	122.63	0.00	0.00	2.01	29.84	–	0	0	0	N
			D11-02	13.79	429.55	6.78	254.82	0.00	0.00	7.01	174.73	–	0	0	0	N
			D12-01	20.19	602.11	10.43	478.49	0.00	0.00	9.76	123.62	–	0	1	2	Y
			D16-02	36.92	773.78	3.71	128.89	0.00	0.00	33.21	644.89	–	0	0	0	N
			D17-01	16.19	522.61	10.71	425.30	0.00	0.00	5.48	97.31	–	0	0	0	N
			D17-03	15.02	409.51	5.43	207.02	0.00	0.00	9.59	202.49	–	0	0	0	N
			D17-04R	17.97	557.94	7.50	311.61	0.00	0.00	10.47	246.33	–	0	0	2	N

Table 3-5 (cont.). Direct project impacts for active red-cockaded woodpecker (RCW) clusters for Fiscal Year 2009 using the Standard for Managed Stability (SMS) (USFWS 2003a), **Alternative B** MCOE, Fort Benning, Georgia.

						SMS Foraging Habitat Removals										
						Suitable Habitat Removed		Potentially Suitable Habitat Removed		Future Potential Habitat Removed						
Project Number	Project Name	Location	Cluster Impacted	Total Acres of RCW Habitat Removed	Total BA of RCW Habitat Removed	Acres	BA	Acres	BA	Acres	BA	Habitat Removed Within the A20 Impact Area	Cavity Trees Taken by Project	Cavity Trees With Impacts Within 50 feet	Cavity Trees With Impacts Within 51 - 200 feet	Disturbance due to Noise, Pedestrian or Vehicular Traffic (Y/N)
69743	Southern Training Area Infrastructure-Upgrade Paved Road and Tank Trails	Southern Ranges	E04-01	15.73	725.67	13.69	666.96	0.00	0.00	2.04	58.71	–	2	2	3	Y
			F02-01R	15.78	460.56	6.19	266.17	0.00	0.00	9.59	194.39	–	0	0	0	N
			J06-03	12.43	441.25	9.03	340.95	0.00	0.00	3.40	100.30	–	0	0	0	N
72017	Vehicle Recovery Course	Harmony Church	R02-01R	21.21	774.94	18.50	619.00	2.08	145.60	0.63	10.34	–	0	0	0	N
			TOTAL:	**2,741.07**	**80,250.50**	**1,212.80**	**47,579.24**	**196.32**	**8,459.31**	**1,331.95**	**24,211.95**	**12.70**	**40**	**29**	**63**	

"–" denotes no impact because RCW cavity trees were taken by project.

Table 3-6. Direct project impacts for active red-cockaded woodpecker (RCW) clusters for Fiscal Year 2010 using the Standard for Managed Stability (SMS) (USFWS 2003a), **Alternative B** MCOE, Fort Benning, Georgia.

						SMS Foraging Habitat Removals									
						Suitable Habitat Removed		Potentially Suitable Habitat Removed		Future Potential Habitat Removed					
Project Number	Project Name	Location	Cluster Impacted	Total Acres of RCW Habitat Removed	Total BA of RCW Habitat Removed	Acres	BA	Acres	BA	Acres	BA	Cavity Trees Taken by Project	Cavity Trees With Impacts Within 50 feet	Cavity Trees With Impacts Within 51 - 200 feet	Disturbance due to Noise, Pedestrian or Vehicular Traffic (Y/N)
65079	Automated Combat Pistol Qual Course (CPQC)	Southern Ranges	A20-06	0.94	25.23	0.00	0.00	0.00	0.00	0.94	25.23	0	0	0	N
	Beaten Area for Automated CPQC		A20-06	8.72	305.20	8.72	305.20	0.00	0.00	0.00	0.00	0	0	0	N
	Construction Limits for Automated CPQC		A20-06	12.22	392.56	4.59	187.77	0.00	0.00	7.63	204.79	0	0	0	N
	Access Road for Automated CPQC		A20-06	3.57	133.14	3.57	133.14	0.00	0.00	0.00	0.00	0	1	0	Y
65557	Repair Existing Trng Area Roads, Phase I	Installation - wide	A06-01	2.42	96.77	1.79	82.34	0.00	0.00	0.63	14.43	0	0	0	N
			A07-01	12.38	360.31	2.96	100.64	0.00	0.00	9.42	259.67	0	0	0	N
			A20-04	8.38	370.52	2.50	126.33	3.97	194.53	1.91	49.66	0	0	0	N
			A20-06	4.04	134.67	3.58	134.67	0.00	0.00	0.46	0.00	0	0	0	N
			BB03-01R	9.46	232.35	0.55	23.32	0.48	22.40	8.43	186.63	0	0	0	N
			BB04-01R	11.51	414.19	7.48	342.33	0.00	0.00	4.03	71.86	0	0	0	N
			BB05-01R	13.74	616.01	12.62	580.52	0.59	24.49	0.53	11.00	0	0	0	N
			C01-03	5.39	184.65	0.49	29.89	1.45	61.94	3.45	92.82	0	0	1	N
			C01-06	6.98	265.93	0.00	0.00	5.91	235.43	1.07	30.50	0	0	0	N
			D05-04	13.49	496.79	10.96	437.26	0.00	0.00	2.53	59.53	0	0	0	N
			E02-01	2.93	71.41	1.27	39.37	0.69	22.23	0.97	9.81	0	0	0	N
			F02-01R	10.90	369.57	6.89	298.12	0.00	0.00	4.01	71.45	0	0	0	N
			HCC-10R	1.59	55.29	1.47	52.23	0.00	0.00	0.12	3.06	0	0	0	N
			HCC-11R	14.09	370.62	0.93	36.74	0.00	0.00	13.16	333.88	0	0	1	N
			K13-06	5.28	22.40	0.00	0.00	0.63	22.40	4.65	0.00	0	0	0	N
			K21-05	9.57	396.03	9.57	396.03	0.00	0.00	0.00	0.00	0	0	0	N
			KPR-01	21.65	1,014.56	10.63	610.63	7.80	320.74	3.22	83.19	0	0	0	N
			L02-02R	13.97	354.61	0.51	22.78	1.00	30.00	12.46	301.83	0	0	0	N
			L03-01	13.40	365.66	2.64	84.52	2.02	75.75	8.74	205.39	0	0	1	N
			M01-01	3.79	127.25	1.69	75.84	0.00	0.00	2.10	51.41	0	0	0	N
			M08-01	18.35	654.17	12.05	514.03	0.00	0.00	6.30	140.14	2	1	4	Y
			M08-02a	9.16	435.87	8.66	409.12	0.50	26.75	0.00	0.00	0	0	1	N
			M08-02b	14.92	549.03	9.36	413.14	0.00	0.00	5.56	135.89	1	2	1	Y
			M08-04R	8.87	191.91	2.63	89.06	0.00	0.00	6.24	102.85	0	0	0	N
			M08-05R	7.04	149.40	0.26	9.62	1.54	47.84	5.24	91.94	0	0	0	N

Table 3-6 (cont.). Direct project impacts for active red-cockaded woodpecker (RCW) clusters for Fiscal Year 2010 using the Standard for Managed Stability (SMS) (USFWS 2003a), **Alternative B** MCOE, Fort Benning, Georgia.

						SMS Foraging Habitat Removals									
						Suitable Habitat Removed		Potentially Suitable Habitat Removed		Future Potential Habitat Removed					
Project Number	Project Name	Location	Cluster Impacted	Total Acres of RCW Habitat Removed	Total BA of RCW Habitat Removed	Acres	BA	Acres	BA	Acres	BA	Cavity Trees Taken by Project	Cavity Trees With Impacts Within 50 feet	Cavity Trees With Impacts Within 51 - 200 feet	Disturbance due to Noise, Pedestrian or Vehicular Traffic (Y/N)
65557	Repair Existing Trng Area Roads, Phase I	Installation - wide	N01-02	4.36	156.85	0.98	38.22	2.36	98.23	1.02	20.40	0	0	0	N
			O01-02	13.05	339.82	4.45	164.65	0.00	0.00	8.60	175.17	0	0	0	N
			O01-03	12.71	319.28	3.57	175.63	0.76	36.10	8.38	107.55	0	0	3	N
			O01-04R	11.98	378.36	0.34	34.00	5.53	212.99	6.11	131.37	0	0	0	N
			O02-01R	18.07	459.92	7.82	315.70	1.82	70.06	8.43	74.16	0	0	0	N
			O03-02	14.01	524.64	11.23	477.53	0.00	0.00	2.78	47.11	0	0	1	N
			O03-03	13.45	288.02	4.14	168.63	0.00	0.00	9.31	119.39	0	2	1	Y
			O03-04	4.78	105.20	1.21	44.17	0.00	0.00	3.57	61.03	0	0	0	N
			O03-05	25.70	756.92	12.74	494.48	4.93	194.74	8.03	67.70	5	3	2	Y
			O03-07	10.79	415.76	10.42	415.76	0.00	0.00	0.37	0.00	0	0	0	N
			O04-01	14.67	355.84	0.00	0.00	0.00	0.00	14.67	355.84	2	1	3	Y
			O04-03a	2.21	47.52	0.00	0.00	0.00	0.00	2.21	47.52	0	0	3	N
			O04-03b	11.52	327.24	4.37	205.39	0.00	0.00	7.15	121.85	3	2	0	Y
			O05-01	9.16	388.99	5.68	286.33	0.00	0.00	3.48	102.66	0	0	0	N
			O05-02	6.72	258.37	6.72	258.37	0.00	0.00	0.00	0.00	1	0	5	N
			O08-01	6.79	136.14	0.00	0.00	3.48	130.50	3.31	5.64	0	0	0	N
			O10-01	8.70	288.37	0.00	0.00	7.45	262.37	1.25	26.00	0	0	0	N
			O10-03	3.10	111.40	1.50	57.75	1.60	53.65	0.00	0.00	0	0	0	N
			O10-04	15.54	429.16	0.00	0.00	12.48	429.16	3.06	0.00	0	0	0	N
			O11-01	0.11	3.08	0.00	0.00	0.00	0.00	0.11	3.08	0	0	0	N
			O13-01	8.44	154.10	1.53	58.91	0.28	9.39	6.63	85.80	1	1	4	Y
			O14-03R	4.08	161.93	3.20	144.70	0.00	0.00	0.88	17.23	0	0	0	N
			S03-01R	4.02	124.28	0.00	0.00	0.92	39.56	3.10	84.72	0	0	0	N
68733	Auto Multipurpose Machine Gun Range (MPMG1)	Southern Ranges	A17-01	52.51	2,631.51	30.98	1,591.01	21.53	1,040.50	0.00	0.00	0	0	0	N
			A17-03	93.99	4,925.31	75.29	3,990.31	18.70	935.00	0.00	0.00	9	0	0	N
			A17-07	3.66	210.89	0.00	0.00	3.66	210.89	0.00	0.00	0	0	0	N
			A17-08	0.32	20.28	0.32	20.28	0.00	0.00	0.00	0.00	0	0	0	N
			A17-13	0.95	47.50	0.00	0.00	0.95	47.50	0.00	0.00	0	0	0	N
			A17-14a	38.93	2,206.06	30.47	1,701.71	8.46	504.35	0.00	0.00	5	0	0	N
			A17-14b	9.50	536.75	0.00	0.00	0.00	0.00	9.50	536.75	2	–	–	–

Table 3-6 (cont.). Direct project impacts for active red-cockaded woodpecker (RCW) clusters for Fiscal Year 2010 using the Standard for Managed Stability (SMS) (USFWS 2003a), **Alternative B** MCOE, Fort Benning, Georgia.

						SMS Foraging Habitat Removals									
						Suitable Habitat Removed		Potentially Suitable Habitat Removed		Future Potential Habitat Removed					
Project Number	Project Name	Location	Cluster Impacted	Total Acres of RCW Habitat Removed	Total BA of RCW Habitat Removed	Acres	BA	Acres	BA	Acres	BA	Cavity Trees Taken by Project	Cavity Trees With Impacts Within 50 feet	Cavity Trees With Impacts Within 51 - 200 feet	Disturbance due to Noise, Pedestrian or Vehicular Traffic (Y/N)
68733	Construction Limits for MPMG1	Southern Ranges	A17-13	98.65	5,082.86	75.18	3,909.36	23.47	1,173.50	0.00	0.00	0	0	0	N
N/A	Construction Limits for Multi-purpose Machine Gun Ranges (MPMG1 & MPMG2)	Southern Ranges	A17-01	61.92	3,202.87	51.44	2733.79	10.48	469.08	0.00	0.00	0	0	0	N
			A17-03	13.19	686.56	11.72	613.06	1.47	73.50	0.00	0.00	1	0	0	N
			A17-04	70.89	3,845.51	59.77	3,292.20	11.12	553.31	0.00	0.00	0	0	2	N
			A17-05	93.33	4,131.98	81.36	3,572.30	10.38	550.14	1.59	9.54	0	0	0	N
			A17-06	74.70	3,307.26	74.56	3,303.62	0.00	0.00	0.14	3.64	0	0	0	N
			A17-07	72.01	3,319.85	58.03	2,611.35	13.98	708.50	0.00	0.00	0	0	0	N
			A17-08	15.38	779.43	11.61	758.14	0.00	0.00	3.77	21.29	0	0	0	N
			A17-14a	59.55	2,537.39	36.00	1,840.36	11.72	626.05	11.83	70.98	0	0	0	N
			A17-14b	47.50	2,629.00	0.00	0.00	0.00	0.00	47.50	2,629.00	0	0	0	N
N/A	Construction Buffer for MPMG1 & MPMG2		A14-03R	38.20	1,960.05	38.20	1,960.05	0.00	0.00	0.00	0.00	0	0	0	N
69150	Classrooms and Dual BN Dining Facilities	Sand Hill	SHC-02	0.60	17.85	0.00	0.00	0.45	14.19	0.15	3.66	0	0	0	N
70027	Classrooms with BN Dining Facilities	Sand Hill	SHC-02	1.09	28.34	0.00	0.00	0.00	0.00	1.09	28.34	0	0	0	N
			TOTAL:	**1,339.58**	**57,794.54**	**843.20**	**40,772.40**	**204.56**	**9,527.76**	**291.82**	**7,494.38**	**32**	**13**	**33**	

"–" denotes no impact because RCW cavity trees were taken by project.

Table 3-7. Direct project impacts for active red-cockaded woodpecker (RCW) clusters for Fiscal Year 2011 using the Standard for Managed Stability (SMS) (USFWS 2003a), **Alternative B** MCOE, Fort Benning, Georgia.

						SMS Foraging Habitat Removals									
						Suitable Habitat Removed		Potentially Suitable Habitat Removed		Future Potential Habitat Removed					
Project Number	Project Name	Location	Cluster Impacted	Total Acres of RCW Habitat Removed	Total BA of RCW Habitat Removed	Acres	BA	Acres	BA	Acres	BA	Cavity Trees Taken by Project	Cavity Trees With Impacts Within 50 feet	Cavity Trees With Impacts Within 51 - 200 feet	Disturbance due to Noise, Pedestrian or Vehicular Traffic (Y/N)
64551	Beaten Area for Multi-purpose Training Range (MPTR)	Southern Ranges	K09-02R	2.51	41.37	0.77	23.10	0.00	0.00	1.74	18.27	0	0	0	N
			K12-01	45.82	1,962.37	45.82	1,962.37	0.00	0.00	0.00	0.00	6	0	1	N
			K13-02	77.31	2,916.70	58.38	2,426.42	0.00	0.00	18.93	490.28	0	0	1	N
			K13-04	93.77	2,340.61	37.00	1,207.66	24.90	1,132.95	31.87	0.00	9	–	–	–
			K13-05R	17.28	545.81	12.77	519.81	0.00	0.00	4.51	26.00	0	0	0	N
65033	Beaten Area for Fire and Movement Range (FM2)	Oscar Ranges	O07-01	2.79	79.52	0.00	0.00	0.00	0.00	2.79	79.52	0	0	0	N
65035	Beaten Area for Basic 10M-25M Firing Range (Z1)	Oscar Ranges	O05-03	1.18	48.97	1.18	48.97	0.00	0.00	0.00	0.00	0	0	0	N
65036	Beaten Area for Basic 10M-25M Firing Range (Z2)	Oscar Ranges	O05-02	10.04	291.19	4.92	185.51	0.48	16.68	4.64	89.00	0	0	0	N
			O05-03	4.44	54.96	0.00	0.00	0.16	5.56	4.28	49.40	0	0	0	N
65043	Beaten Area for Modified Record Fire Range (MRF1)	Oscar Ranges	O05-03	17.42	723.25	16.28	675.95	0.86	47.30	0.28	0.00	0	0	0	N
65049	Beaten Area for Modified Record Fire Range (MRF7)	Oscar Ranges	O05-02	10.12	401.43	0.00	0.00	4.69	162.93	5.43	238.50	0	0	0	N
			O05-03	15.50	538.88	0.00	0.00	8.46	334.62	7.04	204.26	0	0	0	N
65070	Multipurpose Machine Gun Range (MPMG2)	Southern Ranges	A17-01	3.54	220.21	3.54	220.21	0.00	0.00	0.00	0.00	0	0	0	N
			A17-02	44.86	1,412.21	21.35	1,271.91	0.00	0.00	23.51	140.30	0	0	0	N
			A17-03	1.09	56.67	1.09	56.67	0.00	0.00	0.00	0.00	0	0	0	N
			A17-06	18.21	874.85	18.21	874.85	0.00	0.00	0.00	0.00	4	0	0	N
			A17-08	114.87	6,426.31	99.91	6341.50	0.00	0.00	14.96	84.81	4	0	0	N
			A17-11R	19.79	1,306.14	19.79	1,306.14	0.00	0.00	0.00	0.00	0	0	0	N
			A17-13	5.18	269.36	5.18	269.36	0.00	0.00	0.00	0.00	9	0	0	–
65070	Construction Limits for MPMG2	Southern Ranges	A17-02	70.22	2,083.33	37.06	1,815.94	0.00	0.00	33.16	267.39	0	0	0	N
			A17-11R	87.09	5,726.77	86.74	5,724.84	0.00	0.00	0.35	1.93	10	–	–	–
			A17-12R	31.22	997.83	4.75	313.50	0.00	0.00	26.47	684.33	0	0	0	N
65070	Access Road for MPMG2		A17-06	3.76	137.60	3.74	137.60	0.00	0.00	0.02	0.00	0	0	0	N
65383	Beaten Area for Stationary Tank Range (ST2)		K02-01	7.74	139.91	0.00	0.00	0.08	2.48	7.66	137.43	0	0	0	N
			O09-02	1.35	25.65	0.00	0.00	0.00	0.00	1.35	25.65	0	0	0	N
68733	Beaten Area for Multi-purpose Machine Gun Range (MPMG1)		A17-07	16.76	747.31	15.70	706.50	1.06	40.81	0.00	0.00	0	0	0	N
			TOTAL:	**723.86**	**30,369.21**	**494.18**	**26,088.81**	**40.69**	**1,743.33**	**188.99**	**2,537.07**	**42**	**0**	**2**	

"–" denotes no impact because RCW cavity trees were taken by project.

Table 3-8. Direct project impacts for active red-cockaded woodpecker (RCW) clusters for Fiscal Year 2012 using the Standard for Managed Stability (SMS) (USFWS 2003a), **Alternative B** MCOE, Fort Benning, Georgia.

						SMS Foraging Habitat Removals									
						Suitable Habitat Removed		Potentially Suitable Habitat Removed		Future Potential Habitat Removed					
Project Number	Project Name	Location	Cluster Impacted	Total Acres of RCW Habitat Removed	Total BA of RCW Habitat Removed	Acres	BA	Acres	BA	Acres	BA	Cavity Trees Taken by Project	Cavity Trees With Impacts Within 50 feet	Cavity Trees With Impacts Within 51 - 200 feet	Disturbance due to Noise, Pedestrian or Vehicular Traffic (Y/N)
62953	Rail Loading Facility Expansion	Northern Ranges	T02-02R	7.61	376.70	0.00	0.00	7.61	376.70	0.00	0.00	0	0	0	N
65070	Beaten Area for Multipurpose Machine Gun Range (MPMG2)	Southern Ranges	A17-02	2.03	99.47	2.03	99.47	0.00	0.00	0.00	0.00	0	0	0	–
65246	Recreation Center, Harmony Church	Harmony Church	HCC-10R	1.12	33.60	0.00	0.00	1.12	33.60	0.00	0.00	0	0	0	N
	Recreation Centers, Sand Hill	Sand Hill	SHC-02	1.89	44.77	0.00	0.00	0.00	0.00	1.89	44.77	0	0	0	N
69745	Training Barracks Complex (GTA)	Sand Hill	SHC-02	0.07	2.21	0.00	0.00	0.07	2.21	0.00	0.00	0	0	0	N
			TOTAL:	**12.72**	**556.75**	**2.03**	**99.47**	**8.80**	**412.51**	**1.89**	**44.77**	**0**	**0**	**0**	

"–" denotes no impact because RCW cavity trees were taken by project.

Table 3-9. Red-cockaded woodpecker cavity trees impacted within active clusters impacted by Fiscal Year 2009 - 2011 **Alternative B**, MCOE projects, Fort Benning, Georgia.

Fiscal Year	Project Number	Project Name	Ammunition	Cluster Number	Cavity Tree	Tree Taken? (Yes (Y)/ No (N))	Impact within 50 feet? (Y/N)	Impact within 51 - 200 feet? (Y/N)	Harassment	Activity Status	Stage	Cavity Condition	Nest tree History
2009	64551	Multipurpose Training Range (MPTR)	25mm, 120mm, 7.62mm, 5.56mm & .50 Cal	K09-03R	4409A	N	N	N	N	INA	4	1	
					4410A	N	N	N	N	INA	4	2	
					4411A	N	N	N	N	ACT	4	1	2008
					4412A	N	N	N	N	INA	4	2	
					5170	N	N	N	N	ACT	1	2	
					5730	N	N	N	N	ACT	1	1	
					5826A	N	N	N	N	INA	3	2	
					5900	Y	-	-	-				
	65383	Stationary Tank Range	120 mm & .50 Cal	K02-01 *	1617	Y	-	-	-	ACT	1	2	2008
					3900A	Y	-	-	-	ACT	4	1	
					3901A	Y	-	-	-	INA	4	2	
					4772A	Y	-	-	-	ACT	4	1	
					5720	Y	-	-	-	ACT	1	1	
					5871	Y	-	-	-	INA	1	1	
				O09-02	1614	N	N	N	N	INA	4	2	
					3095A	N	N	N	N	INA	4	2	
					3096A	N	N	N	N	INA	4	1	
					3098A	N	N	N	N	ACT	4	1	
					3099A	N	N	N	N	INA	4	2	
					3232	N	N	N	N	INA	2	2	
					3938	N	N	Y	N	INA	1	1	
					4836	N	N	Y	N	ACT	1	1	2007 - 2008
					5627	N	N	Y	N	ACT	2	2	2008
	65554	Construct Training Area Roads Paved		J02-02R	2683A	Y	-	-	-	INA	5	2	
					2685A	Y	-	-	-	ACT	4	1	
					2686A	N	Y	-	Y	ACT	4	1	
					2687A	Y	-	-	-	INA	4	1	
					2688A	N	Y	-	Y	ACT	4	1	
					5204	Y	-	-	-	ACT	2	2	
					5489	N	Y	-	Y	INA	1	1	
					5511	N	N	N	N	ACT	1	1	2008
					5691	Y	-	-	-	ACT	1	1	
				K08-03	4967A	N	N	N	N	INA	4	1	
					4968A	N	N	N	N	ACT	4	1	
					5407	N	N	N	N	INA	1	1	
					5439	N	N	N	N	ACT	1	1	
					5440	N	N	Y	N	ACT	2	2	2008
				K11-02 *	1064	N	N	Y	N	INA	1	1	
					2595A	N	N	N	N	ACT	4	1	
					2596A	N	N	N	N	INA	4	1	
					2620A	N	N	Y	N	ACT	4	1	
					2621A	N	N	Y	N	INA	4	1	
					2737A	N	N	Y	N	ACT	4	1	
					3656	N	N	Y	N	INA	1	2	
					3688	N	N	N	N	INA	2	2	
					3788A	N	N	N	N	ACT	4	1	2008
					4852	N	N	N	N	INA	2	2	
					5211	N	N	N	N	ACT	2	2	
					5284	N	N	N	N	ACT	2	2	
					5434	N	N	N	N	ACT	1	1	
				O08-02	3445A	N	N	N	N	INA	4	1	
					3789	N	N	Y	N	INA	2	2	
					4768A	N	N	N	N	ACT	4	1	
					4769A	N	N	Y	N	ACT	4	1	
					5046	N	N	N	N	INA	2	2	
					5518	N	N	N	N	ACT	1	1	
					5750	N	N	N	N	ACT	2	2	
					5810	N	N	Y	N	ACT	1	1	2008

Activity Status

ACT	Active
INA	Inactive

Stage

1	Natural RCW cavity	4	Insert cavity
2	Natural start	5	Drilled start
3	Drilled cavity		

Cavity Condition

1	Suitable
2	Unsuitable

* These clusters were analyzed and "taken" by Transformation projects, but project impacts within this partition are currently being re-analyzed by MCOE projects.

Table 3-9 (cont.). Red-cockaded woodpecker cavity trees impacted within active clusters impacted by Fiscal Year 2009 - 2011 **Alternative B**, MCOE projects, Fort Benning, Georgia.

Fiscal Year	Project Number	Project Name	Ammunition	Cluster Number	Cavity Tree	Tree Taken? (Yes (Y)/ No (N))	Impact within 50 feet? (Y/N)	Impact within 51 - 200 feet? (Y/N)	Harassment	Activity Status	Stage	Cavity Condition	Nest tree History
2009	65554	Construct Training Area Roads Paved		O09-03R	3768A	N	N	Y	-	ACT	4	1	
					3769A	N	N	Y	-	ACT	4	1	
					3770A	N	N	Y	-	INA	4	1	
					3771A	N	N	Y	-	INA	4	1	
				O13-06R	1987	N	Y	-	N	INA	1	2	
					2314	N	N	N	N	ACT	2	2	
					3205A	N	N	N	N	INA	4	1	
					3206A	N	N	N	N	ACT	4	1	
					3207A	N	N	Y	N	ACT	4	1	
					3208A	N	N	N	N	ACT	4	1	2007 - 2008
					3209A	N	N	N	N	INA	5	2	
					5002A	N	N	N	N	ACT	4	1	
					5250	N	N	N	N	INA	1	2	
					5684	N	N	N	N	INA	2	2	
	69358	Range Access Road		A09-03R	1541	N	N	N	N	INA	1	2	
					2554A	N	N	N	N	ACT	4	1	
					2563A	N	N	N	N	ACT	4	1	
					2564A	N	N	N	N	ACT	4	1	
					4197	N	N	N	N	INA	1	2	
					4456	N	N	Y	N	INA	2	2	
					4821	N	N	Y	N	INA	2	2	
					4854	N	N	N	N	ACT	1	1	2007 - 2008
					4858	N	N	N	N	INA	2	2	
					4859	N	N	N	N	INA	2	2	
				HCC-10R	4429A	N	N	Y	N	ACT	4	1	
					4430A	N	N	Y	N	INA	4	1	
					4431A	N	Y	-	Y	ACT	4	1	
					4432A	N	N	Y	N	ACT	4	1	2001-2008
					5688	Y	-	-	-	ACT	1	1	
					5689	N	N	Y	N	ACT	2	2	
					5743	N	N	N	N	INA	1	2	
					5803A	N	Y	-	N	ACT	4	1	
					5804A	N	N	Y	N	INA	4	1	
					5805	Y	-	-	-	ACT	2	2	
	69741	Alternate 19D/K OSUT Training Area		Q02-02	0378	N	N	Y	N	INA	1	2	
					0379	N	N	Y	N	ACT	1	1	
					2515	N	N	N	N	INA	1	1	
					2885	N	N	N	N	INA	1	2	
					4222	N	N	N	N	ACT	1	1	2004 - 2008
					4224	N	N	N	N	INA	1	2	
					4257	N	N	N	N	INA	2	2	
					4843	N	N	N	N	INA	2	2	
					5244	N	N	N	N	ACT	1	1	
					5670	N	N	Y	N	ACT	1	1	
					5766	N	N	N	N	ACT	2	2	
				Q02-03	2790A	Y	-	-	-	ACT	4	1	
					2792A	N	N	Y	N	ACT	4	1	
					2884	N	Y	-	Y	ACT	1	1	
					3175A	N	N	Y	N	ACT	4	1	
					3178A	Y	-	-	-	INA	5	2	
					3346	N	N	Y	N	ACT	1	1	2007 - 2008
					3347	Y	-	-	-	INA	1	1	
					3888	N	N	N	N	INA	2	2	
					5057	N	Y	-	N	INA	1	2	
					5575	N	N	Y	N	INA	2	2	
				Q02-04R	4050A	N	N	N	N	ACT	4	1	
					4051A	N	N	Y	N	ACT	4	1	
					4052A	N	Y	-	Y	ACT	4	1	
					5052	N	N	Y	N	ACT	1	1	
					5450	N	N	Y	N	ACT	1	1	2007 - 2008
					5622	Y	-	-	-	INA	2	2	

Activity Status

ACT	Active
INA	Inactive

Stage

1	Natural RCW cavity	4	Insert cavity
2	Natural start	5	Drilled start
3	Drilled cavity		

Cavity Condition

1	Suitable
2	Unsuitable

* These clusters were analyzed and "taken" by Transformation projects, but project impacts within this partition are currently being re-analyzed by MCOE projects.

Table 3-9 (cont.). Red-cockaded woodpecker cavity trees impacted within active clusters impacted by Fiscal Year 2009 - 2011 **Alternative B**, MCOE projects, Fort Benning, Georgia.

Fiscal Year	Project Number	Project Name	Ammunition	Cluster Number	Cavity Tree	Tree Taken? (Yes (Y)/ No (N))	Impact within 50 feet? (Y/N)	Impact within 51 - 200 feet? (Y/N)	Harassment	Activity Status	Stage	Cavity Condition	Nest tree History
2009	69742	Northern Training Area Infrastructure		OO1-01	2000	N	N	N	N	INA	1	1	
					2310	N	N	N	N	ACT	1	1	
					2810	N	N	N	N	INA	1	1	
					2811	N	N	N	N	ACT	1	1	
					3240	N	N	N	N	INA	1	2	
					3262	N	N	N	N	INA	1	1	
					3642	N	N	Y	N	INA	4	2	
					3801A	N	N	N	N	INA	4	1	
					3802A	N	N	N	N	INA	1	1	
					3928	N	N	Y	N	ACT	1	1	2006 - 2008
					4842	N	N	N	N	INA	1	1	
					5448	N	N	Y	N	ACT	1	1	
					5449	N	N	N	N	INA	1	1	
					5527	N	N	N	N	INA	2	1	
				O01-03	0105	N	N	N	N	INA	1	1	
					3456A	N	N	N	N	INA	4	2	
					4966A	N	N	N	N	INA	4	1	
					4993	N	N	Y	N	INA	1	1	
					5028	N	N	N	N	INA	1	2	
					5098	N	N	Y	N	ACT	1	2	
					5381	N	N	Y	N	INA	1	1	
					5649	N	N	Y	N	ACT	1	1	2008
				O03-01	0802	Y	-	-	-	INA	1	2	
					1741	N	N	Y	N	ACT	2	2	
					3716	Y	-	-	-	INA	1	2	
					4030	N	N	Y	N	INA	1	1	
					4997	Y	-	-	-	INA	2	2	
					5106A	Y	-	-	-	ACT	3	1	2005 - 2008
					5107A	Y	-	-	-	ACT	3	1	
					5520	Y	-	-	-	ACT	3	1	
					5790	N	Y	-	Y	ACT	1	1	
				O03-03	0115	Y	-	-	-	ACT	1	1	
					0116	N	Y	-	N	INA	1	2	
					2337	N	N	N	N	ACT	1	2	
					2903	Y	-	-	-	INA	2	2	
					3488	N	Y	-	Y	ACT	1	1	2007 - 2008
					3943	N	N	Y	N	INA	1	1	
					4172	Y	-	-	-	ACT	1	1	
					4570	Y	-	-	-	ACT	1	1	2008
					5078	N	N	N	N	INA	2	2	
				O03-04	0768	N	N	N	N	INA	1	1	
					1193	N	N	Y	N	INA	1	1	
					2338	N	N	N	N	INA	2	2	
					2793A	N	N	N	N	INA	4	1	
					2794A	N	N	N	N	ACT	4	1	
					2797A	N	N	Y	N	ACT	3	1	2006 - 2008
					2798A	N	N	Y	N	INA	5	2	
					2799A	N	N	Y	N	INA	5	2	
					2800A	N	N	Y	N	ACT	5	2	
					3644	N	N	N	N	INA	2	2	

Activity Status

ACT	Active
INA	Inactive

Stage

1	Natural RCW cavity	4	Insert cavity
2	Natural start	5	Drilled start
3	Drilled cavity		

Cavity Condition

1	Suitable
2	Unsuitable

* These clusters were analyzed and "taken" by Transformation projects, but project impacts within this partition are currently being re-analyzed by MCOE projects.

Table 3-9 (cont.). Red-cockaded woodpecker cavity trees impacted within active clusters impacted by Fiscal Year 2009 - 2011 **Alternative B**, MCOE projects, Fort Benning, Georgia.

Fiscal Year	Project Number	Project Name	Ammunition	Cluster Number	Cavity Tree	Tree Taken? (Yes (Y)/ No (N))	Impact within 50 feet? (Y/N)	Impact within 51 - 200 feet? (Y/N)	Harassment	Activity Status	Stage	Cavity Condition	Nest tree History
2009	69742	Northern Training Area Infrastructure		O15-01	1996	N	N	Y	N	INA	2	2	
					3615A	N	N	N	N	INA	4	1	
					3616A	N	N	N	N	INA	4	2	
					4026	N	N	N	N	INA	2	2	
					4372A	N	N	N	N	INA	4	1	
					4373A	N	N	N	N	INA	4	1	
					5554	N	N	N	N	ACT	1	1	
					5555	N	N	N	N	ACT	1	1	2007 - 2008
					5637	N	N	N	N	INA	2	2	
					5638	N	N	N	N	ACT	2	2	
					5639	N	N	N	N	ACT	2	2	
	69743	Southern Training Area Infrastructure		D05-02R	4645A	N	N	Y	N	INA	4	1	
					4646A	N	N	Y	N	INA	4	1	
					4648A	N	N	N	N	ACT	4	1	
					5270A	N	N	Y	N	INA	4	1	
					5657	N	N	Y	N	ACT	1	1	2008
				D11-02 *	3852A	Y	-	-	-	ACT	4	1	
					3853A	Y	-	-	-	ACT	4	1	
					4240A	Y	-	-	-	INA	4	2	
					4517	Y	-	-	-	INA	1	1	
					5476	Y	-	-	-	INA	1	1	
					5655	Y	-	-	-	INA	1	1	
					5697	Y	-	-	-	ACT	1	1	2007 - 2008
				D12-01	2305	N	N	N	N	INA	1	1	
					2325	N	N	N	N	INA	1	1	
					2926	N	N	N	N	INA	1	2	
					3655	N	Y	-	Y	INA	1	1	
					4863	N	N	Y	N	INA	1	1	
					5068	N	N	N	N	INA	2	2	
					5763A	N	N	Y	N	INA	4	1	
					5764A	N	N	N	N	INA	4	1	
					5595	N	N	N	N	ACT	1	1	
					5763A	N	N	Y	N	ACT	4	1	2008
					5764A	N	N	N	N	INA	4	1	
				D17-04R	2637A	N	N	N	N	INA	4	1	
					2638A	N	N	N	N	INA	4	1	
					2639A	N	N	N	N	INA	5	2	
					2673A	N	N	N	N	ACT	1	1	
					2676A	N	N	Y	N	INA	4	1	
					4523	N	N	Y	N	INA	1	2	
					4942A	N	N	N	N	ACT	4	1	
					5012	N	N	Y	N	INA	1	1	
					5273	N	N	N	N	INA	1	2	
					5605	N	Y	-	Y	ACT	1	1	
					5865	N	N	N	N	ACT	1	1	
				E04-01	0180	N	N	N	N	INA	1	1	
					2804	N	N	N	N	INA	1	1	
					3957	N	N	Y	N	INA	1	1	
					3958	N	Y	-	N	INA	2	2	
					4459	N	N	N	N	INA	1	1	
					5108	N	N	N	N	ACT	1	1	2008
					5109	N	N	N	N	INA	1	2	
					5185	N	Y	-	Y	ACT	1	2	
				F02-01R *	3465A	N	Y	-	Y	ACT	4	1	
					3466A	N	Y	-	Y	ACT	4	1	
					3467A	N	Y	-	Y	ACT	4	1	
					4083A	N	Y	-	Y	ACT	4	1	2008
					5681	N	Y	-	N	ACT	2	2	

Activity Status

ACT	Active
INA	Inactive

Stage

1	Natural RCW cavity	4	Insert cavity
2	Natural start	5	Drilled start
3	Drilled cavity		

Cavity Condition

1	Suitable
2	Unsuitable

* These clusters were analyzed and "taken" by Transformation projects, but project impacts within this partition are currently being re-analyzed by MCOE projects.

Table 3-9 (cont.). Red-cockaded woodpecker cavity trees impacted within active clusters impacted by Fiscal Year 2009 - 2011 **Alternative B**, MCOE projects, Fort Benning, Georgia.

Fiscal Year	Project Number	Project Name	Ammunition	Cluster Number	Cavity Tree	Tree Taken? (Yes (Y)/ No (N))	Impact within 50 feet? (Y/N)	Impact within 51 - 200 feet? (Y/N)	Harassment	Activity Status	Stage	Cavity Condition	Nest tree History
2009	69743	Southern Training Area Infrastructure - Road		D10-01 *	2327	N	N	N	N	INA	1	2	
					2823	N	N	Y	N	INA	1	1	
					2868	N	N	N	N	INA	1	1	
					4004	N	N	N	N	INA	1	1	
					4826	N	N	N	N	INA	1	2	
					5163	N	N	N	N	INA	1	1	
					5224	N	N	N	N	INA	2	2	
					5441	N	N	N	N	ACT	1	1	
					5461A	N	N	N	N	ACT	4	1	2006-2008
					5761A	N	N	N	N	ACT	4	1	
					5762A	N	N	Y	N	ACT	4	1	
				D12-01	2305	N	N	N	N	INA	1	1	
					2325	N	N	N	N	INA	1	1	
					2926	N	N	N	N	INA	1	2	
					3655	N	Y	-	Y	INA	1	1	
					4863	N	N	Y	N	INA	1	1	
					5068	N	N	N	N	INA	2	2	
					5763A	N	N	Y	N	INA	4	1	
					5764A	N	N	N	N	INA	4	1	
					5595	N	N	N	N	ACT	1	1	
					5763A	N	N	Y	N	ACT	4	1	2008
					5764A	N	N	N	N	INA	4	1	
				D17-04R	2637A	N	N	Y	N	INA	4	1	
					2638A	N	N	N	N	INA	4	1	
					2639A	N	N	N	N	INA	5	2	
					2673A	N	N	N	N	ACT	1	1	
					2676A	N	N	N	N	INA	4	1	
					4523	N	N	N	N	INA	1	2	
					4942A	N	N	Y	N	ACT	4	1	
					5012	N	N	N	N	INA	1	1	
					5273	N	N	N	N	INA	1	2	
					5605	N	N	N	N	ACT	1	1	
					5865	N	N	N	N	ACT	1	1	
				E04-01	0180	N	N	Y	N	INA	1	1	
					2804	N	Y	-	N	INA	1	1	
					3957	N	Y	-	N	INA	1	1	
					3958	Y	-	-	-	INA	2	2	
					4459	N	N	Y	N	INA	1	1	
					5108	N	N	Y	N	ACT	1	1	2008
					5109	Y	-	-	-	INA	1	2	
					5185	Y	-	-	-	ACT	1	2	
	72017	Vehicle Recovery Course		R01-01	2135	Y	-	-	-	INA	1	2	
					3227	Y	-	-	-	INA	1	2	
					3360	Y	-	-	-	INA	2	2	
					4103	Y	-	-	-	INA	2	2	
					4661A	Y	-	-	-	INA	4	1	
					4662A	Y	-	-	-	INA	4	1	
					4681	Y	-	-	-	ACT	1	1	2006 - 2008
					4682	Y	-	-	-	INA	2	2	
					4975A	Y	-	-	-	ACT	4	1	
					4976A	Y	-	-	-	ACT	4	1	
					5491	Y	-	-	-	ACT	2	2	
					5740	Y	-	-	-	ACT	1	1	

Activity Status

ACT	Active
INA	Inactive

Stage

1	Natural RCW cavity	4	Insert cavity
2	Natural start	5	Drilled start
3	Drilled cavity		

Cavity Condition

1	Suitable
2	Unsuitable

* These clusters were analyzed and "taken" by Transformation projects, but project impacts within this partition are currently being re-analyzed by MCOE projects.

Table 3-9 (cont.). Red-cockaded woodpecker cavity trees impacted within active clusters impacted by Fiscal Year 2009 - 2011 **Alternative B**, MCOE projects, Fort Benning, Georgia.

Fiscal Year	Project Number	Project Name	Ammunition	Cluster Number	Cavity Tree	Tree Taken? (Yes (Y)/ No (N))	Impact within 50 feet? (Y/N)	Impact within 51 - 200 feet? (Y/N)	Harassment	Activity Status	Stage	Cavity Condition	Nest tree History
2009	72017	Vehicle Recovery Course		RO1-03R*	2650A	Y	-	-	-	INA	4	2	
					2652A	Y	-	-	-	INA	5	2	
					2654A	Y	-	-	-	ACT	4	1	
					2655A	Y	-	-	-	INA	5	2	
					2657A	Y	-	-	-	ACT	4	1	
					3902A	Y	-	-	-	ACT	4	1	2008
					4027	Y	-	-	-	INA	1	2	
					4691	Y	-	-	-	INA	1	2	
					4711	Y	-	-	-	INA	1	2	
					4833	Y	-	-	-	INA	1	2	
					4912	Y	-	-	-	INA	1	2	
					5054	Y	-	-	-	ACT	1	1	
					5867	Y	-	-	-	ACT	1	1	2008
			Total number of trees impacted in 2009			**63**	**24**	**71**					
2010	65079	Automated Combat Pistol Qual Course		A20-06	3734	N	N	N	N	INA	2	2	
					3735	N	N	N	N	INA	1	1	
					4217	N	N	N	N	INA	2	2	
					4453A	N	N	N	N	ACT	4	1	
					4454A	N	N	N	N	ACT	4	1	
					4455A	N	N	N	N	INA	4	2	
					5394	N	Y	-	Y	ACT	1	1	
					5878	N	N	N	N	ACT	1	1	2008
	65557	Repair Existing Training Area Roads, Phase 1		C01-03	0124	N	N	N	N	INA	1	2	
					0587	N	N	N	N	ACT	1	1	
					0588	N	N	N	N	INA	1	2	
					1975	N	N	N	N	ACT	1	1	2008
					2151	N	N	N	N	INA	2	2	
					2856	N	N	N	N	INA	2	2	
					4764A	N	N	N	N	ACT	4	1	
					4765A	N	N	N	N	ACT	4	1	
					5382	N	N	N	N	ACT	1	1	
					5685	N	N	Y	N	ACT	2	2	
					5686	N	N	N	N	ACT	2	2	
					5744	N	N	N	N	ACT	2	2	
				HCC-11R *	4058A	N	N	N	N	INA	4	1	
					4059A	N	N	N	N	INA	4	1	
					4060A	N	N	N	N	ACT	4	1	
					4061A	N	N	N	N	ACT	4	1	
					5384	N	N	Y	N	ACT	1	1	
					5385	N	N	N	N	ACT	1	1	2005 - 2008
					5538	N	N	N	N	INA	1	1	
					5672	N	N	N	N	ACT	2	2	
				M08-01	1039	Y	-	-	-	INA	1	2	
					1040	N	N	Y	N	INA	1	2	
					1884	N	N	N	N	INA	2	2	
					3349	N	N	Y	N	INA	1	1	
					4895	Y	-	-	-	INA	2	1	
					5003A	N	N	Y	N	ACT	4	1	
					5004A	N	N	N	N	INA	4	1	
					5533	N	N	Y	N	INA	1	1	
					5722	N	Y	-	Y	ACT	1	1	2008

Activity Status

ACT	Active
INA	Inactive

Stage

1	Natural RCW cavity	4	Insert cavity
2	Natural start	5	Drilled start
3	Drilled cavity		

Cavity Condition

1	Suitable
2	Unsuitable

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Table 3-9 (cont.). Red-cockaded woodpecker cavity trees impacted within active clusters impacted by Fiscal Year 2009 - 2011**Alternative B**, MCOE projects, Fort Benning, Georgia.

Fiscal Year	Project Number	Project Name	Ammunition	Cluster Number	Cavity Tree	Tree Taken? (Yes (Y)/ No (N))	Impact within 50 feet? (Y/N)	Impact within 51 - 200 feet? (Y/N)	Harassment	Activity Status	Stage	Cavity Condition	Nest tree History
2010	65557	Repair Existing Training Area Roads, Phase 1		M08-02a	1272	N	N	N	N	ACT	2	2	
					2121	N	N	N	N	ACT	2	2	
					2123	N	N	N	N	ACT	1	1	2008
					2124	N	N	N	N	ACT	1	1	
					2270	N	N	Y	N	INA	2	2	
					3540	N	N	N	N	ACT	1	2	
					4371A	N	N	N	N	ACT	1	1	
					4374A	N	N	N	N	ACT	4	1	
					4375A	N	N	N	N	INA	4	1	
					4816	N	N	N	N	ACT	2	2	
					5635	N	N	N	N	INA	2	2	
				M08-02b	3997	N	N	Y	N	INA	1	2	
					5395	N	Y	-	Y	ACT	1	1	
					5469	Y	-	-	-	ACT	1	1	2008
					5478	N	N	N	N	ACT	2	2	
					5634	N	Y	-	N	INA	2	2	
				O01-03	0105	N	N	Y	N	INA	1	1	
					3456A	N	N	Y	N	INA	4	2	
					4966A	N	N	Y	N	INA	4	1	
					4993	N	N	N	N	INA	1	1	
					5028	N	N	N	N	INA	1	2	
					5098	N	N	N	N	ACT	1	2	
					5381	N	N	N	N	INA	1	1	
					5649	N	N	N	N	ACT	1	1	2008
				O03-02	1592	N	N	N	N	INA	1	2	
					1744	N	N	N	N	INA	2	1	
					2249	N	N	Y	N	INA	1	1	
					3436A	N	N	N	N	INA	4	1	
					3437A	N	N	N	N	INA	4	1	
					5005A	N	N	N	N	ACT	3	1	
					5420A	N	N	N	N	ACT	3	1	2006-2008
				O03-03	0115	N	Y	-	N	ACT	1	1	
					0116	N	Y	-	N	INA	1	2	
					2337	N	N	N	N	ACT	1	2	
					2903	N	N	Y	N	INA	2	2	
					3488	N	N	N	N	ACT	1	1	2007 - 2008
					3943	N	N	N	N	INA	1	1	
					4172	N	N	N	N	ACT	1	1	
					4570	N	N	N	N	ACT	1	1	2008
					5078	N	N	N	N	INA	2	2	
				O03-05	2242	N	N	Y	N	ACT	1	1	
					2243	N	N	Y	N	INA	1	1	
					2244	N	N	N	N	ACT	1	2	
					2508	N	Y	-	Y	ACT	1	2	
					2590A	N	N	Y	N	INA	4	1	
					2591A	N	N	Y	N	INA	4	1	
					2608A	N	Y	-	Y	ACT	4	1	
					2720A	N	N	Y	N	INA	5	2	
					2723A	N	N	Y	N	ACT	4	1	2006 - 2008
					4573	N	N	Y	N	INA	2	2	
				O04-01	1289	N	N	Y	N	INA	1	2	
					2003	Y	-	-	-	ACT	1	1	
					2974	N	N	N	N	ACT	1	1	
					3645	N	N	Y	N	INA	1	2	
					4595	N	Y	-	Y	ACT	1	1	2007 - 2008
					4717A	Y	-	-	-	INA	4	1	
					5632	N	N	Y	N	ACT	1	1	

Activity Status
ACT Active
INA Inactive

Stage
1 Natural RCW cavity
2 Natural start
3 Drilled cavity
4 Insert cavity
5 Drilled start

Cavity Condition
1 Suitable
2 Unsuitable

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Table 3-9 (cont.). Red-cockaded woodpecker cavity trees impacted within active clusters impacted by Fiscal Year 2009 - 2011 **Alternative B**, MCOE projects, Fort Benning, Georgia.

Fiscal Year	Project Number	Project Name	Ammunition	Cluster Number	Cavity Tree	Tree Taken? (Yes (Y)/ No (N))	Impact within 50 feet? (Y/N)	Impact within 51 - 200 feet? (Y/N)	Harassment	Activity Status	Stage	Cavity Condition	Nest tree History
2010	65557	Repair Existing Training Area Roads, Phase 1		O04-03a	2111	N	N	N	N	ACT	1	2	
					2558A	N	N	N	N	INA	4	1	
					2559A	N	N	N	N	ACT	4	1	
					2560A	N	N	N	N	INA	4	1	
					3315A	N	N	N	N	INA	5	2	
					3316A	N	N	N	N	ACT	2	2	2008
					4032	N	N	Y	N	ACT	1	2	
					4596	N	N	Y	N	INA	1	2	
					4702	N	N	N	N	ACT	1	1	
					5633	N	N	Y	N	ACT	2	2	
				O04-03b	4927	N	Y	-	Y	ACT	1	1	2008
					4957	Y	-	-	-	INA	2	2	
					5061	Y	-	-	-	ACT	1	1	
					5501	N	Y	-	Y	ACT	1	1	
					5760	Y	-	-	-	ACT	2	2	
				O05-02	0770	N	N	Y	N	ACT	1	1	
					1726	Y	-	-	-	INA	1	2	
					2250	N	N	Y	N	ACT	1	1	
					2262	N	N	Y	N	ACT	1	1	2006 - 2008
					2263	N	N	Y	N	INA	1	1	
					4395A	N	N	Y	N	INA	4	1	
					4913	N	N	N	N	INA	2	2	
				O13-01	2145	N	N	N	N	INA	2	2	
					3120A	N	N	N	N	INA	4	1	
					3121A	N	N	N	N	INA	4	1	
					3122A	N	N	Y	N	ACT	4	1	
					3123A	N	Y	-	N	INA	4	1	
					5026	N	N	Y	N	ACT	2	1	
					5027	N	N	N	N	INA	1	2	
					5176	Y	-	-	-	INA	2	2	
					5177	N	N	N	N	INA	1	2	
					5198	N	N	N	N	ACT	1	1	2007 - 2008
					5530	N	N	Y	N	INA	1	1	
					5683	N	N	Y	N	ACT	1	2	
				O14-03R	4116A	N	N	N	N	ACT	4	1	
					4117A	N	N	N	N	INA	4	1	
					4118A	N	N	N	N	ACT	4	1	
					4119A	N	N	N	N	ACT	4	1	
					4274A	N	N	N	N	ACT	4	1	2007 - 2008
					4275A	N	N	N	N	INA	5	2	
					4759A	N	N	N	N	INA	4	1	
					4827	N	N	Y	N	INA	1	1	
					4862	N	N	N	N	INA	2	2	
					5234	N	N	N	N	ACT	2	2	
					5237	N	N	N	N	INA	2	2	
	68733	Auto Multipurpose Machine Gun Range (MPMG1)	7.62mm & .50 Cal	A17-01 *	5616A	Y	-	-	-	ACT	4	1	
					5617A	Y	-	-	-	ACT	4	1	
					5618	Y	-	-	-	ACT	1	1	
					5619	Y	-	-	-	INA	1	1	
					5787	Y	-	-	-	ACT	1	1	2008

Activity Status

ACT	Active
INA	Inactive

Stage

1	Natural RCW cavity	4	Insert cavity
2	Natural start	5	Drilled start
3	Drilled cavity		

Cavity Condition

1	Suitable
2	Unsuitable

* These clusters were analyzed and "taken" by Transformation projects, but project impacts within this partition are currently being re-analyzed by MCOE projects.

Table 3-9 (cont.). Red-cockaded woodpecker cavity trees impacted within active clusters impacted by Fiscal Year 2009 - 2011 **Alternative B**, MCOE projects, Fort Benning, Georgia.

Fiscal Year	Project Number	Project Name	Ammunition	Cluster Number	Cavity Tree	Tree Taken? (Yes (Y)/ No (N))	Impact within 50 feet? (Y/N)	Impact within 51 - 200 feet? (Y/N)	Harassment	Activity Status	Stage	Cavity Condition	Nest tree History
2010	68733	Auto Multipurpose Machine Gun Range (MPMG1)	7.62mm & .50 Cal	A17-03 *	1694	Y	-	-	-	INA	1	1	
					2192	Y	-	-	-	INA	1	1	
					4243	Y	-	-	-	ACT	1	1	
					4511	Y	-	-	-	ACT	1	1	
					4716	Y	-	-	-	INA	1	1	
					4853	Y	-	-	-	ACT	1	1	
					5071	Y	-	-	-	INA	2	2	
					5072	Y	-	-	-	INA	2	2	
					5389	Y	-	-	-	ACT	1	1	2008
					5390	Y	-	-	-	INA	2	2	
				A17-04	2468	N	N	N	-	ACT	1	1	
					2801	N	N	N	-	INA	1	1	
					4134	N	N	Y	-	INA	1	2	
					4196	N	N	N	-	ACT	1	1	
					4310	N	N	N	-	ACT	1	1	
					4311	N	N	N	-	INA	2	2	
					4327	N	N	N	-	INA	2	2	
					4328	N	N	N	-	ACT	2	2	
					5599	N	N	Y	-	ACT	1	1	2007 - 2008
				A17-05	0921	Y	-	-	-	INA	1	2	
					0922	Y	-	-	-	ACT	1	1	2008
					2768	Y	-	-	-	INA	1	2	
					2948	Y	-	-	-	ACT	1	1	
					2963	Y	-	-	-	INA	1	1	
					2964	Y	-	-	-	INA	1	2	
					3709	Y	-	-	-	ACT	1	1	
					4365	Y	-	-	-	ACT	1	1	
					5620	Y	-	-	-	INA	2	2	
				A17-07	4330	Y	-	-	-	INA	1	2	
					4364	Y	-	-	-	ACT	1	2	
					4727	Y	-	-	-	ACT	1	1	
					4728	Y	-	-	-	ACT	1	1	
					4729	Y	-	-	-	ACT	1	2	
					5169	Y	-	-	-	INA	1	2	
					5560	Y	-	-	-	ACT	1	1	2006 - 2008
					5786	Y	-	-	-	ACT	1	1	
				A17-14a *	4246	Y	-	-	-	INA	1	2	
					4251A	Y	-	-	-	ACT	4	1	
					4252A	Y	-	-	-	ACT	4	1	
					4253A	Y	-	-	-	INA	4	1	
					5721	Y	-	-	-	ACT	1	1	2008
					5854	Y	-	-	-	ACT	1	1	
					5855	Y	-	-	-	ACT	2	2	
					5856	Y	-	-	-	ACT	2	2	
				A17-14b	4247	Y	-	-	-	ACT	1	1	
					4248	Y	-	-	-	ACT	1	1	2008
			Total number of trees impacted in 2010			**51**	**12**	**38**					
2011	64551	Multipurpose Training Range Beaten Path	25mm, 120mm, 7.62mm, 5.56mm & .50 Cal	K12-01 *	2462	N	N	Y	N	INA	2	2	
					4690	Y	-	-	-	INA	1	2	
					4909A	Y	-	-	-	ACT	4	1	
					4910A	Y	-	-	-	ACT	4	1	
					4985A	Y	-	-	-	INA	3	1	
					4986A	Y	-	-	-	ACT	3	1	
					5675	Y	-	-	-	INA	1	1	2008

Activity Status
ACT Active
INA Inactive

Stage
1 Natural RCW cavity
2 Natural start
3 Drilled cavity
4 Insert cavity
5 Drilled start

Cavity Condition
1 Suitable
2 Unsuitable

* These clusters were analyzed and "taken" by Transformation projects, but project impacts within this partition are currently being re-analyzed by MCOE projects.

Table 3-9 (cont.). Red-cockaded woodpecker cavity trees impacted within active clusters impacted by Fiscal Year 2009 - 2011 **Alternative B**, MCOE projects, Fort Benning, Georgia.

Fiscal Year	Project Number	Project Name	Ammunition	Cluster Number	Cavity Tree	Tree Taken? (Yes (Y)/ No (N))	Impact within 50 feet? (Y/N)	Impact within 51 - 200 feet? (Y/N)	Harassment	Activity Status	Stage	Cavity Condition	Nest tree History
2011	64551	Multipurpose Training Range Beaten Path	25mm, 120mm, 7.62mm, 5.56mm & .50 Cal	K13-02	3514	N	N	N	N	INA	1	2	
					3544A	N	N	N	N	INA	4	2	
					4943A	N	N	N	N	ACT	4	1	
					4944A	N	N	N	N	ACT	4	1	
					4945A	N	N	Y	N	INA	4	1	
					4946A	N	N	N	N	ACT	4	1	
					5433	N	N	N	N	INA	1	1	
					5844	N	N	N	N	ACT	1	1	2008
				K13-04	3059	Y	-	-	-	INA	1	1	
					3086A	Y	-	-	-	ACT	4	1	
					3087A	Y	-	-	-	INA	4	1	
					4686	Y	-	-	-	INA	1	1	
					4687	Y	-	-	-	INA	1	1	
					4809	Y	-	-	-	ACT	1	1	2007 - 2008
					5674A	Y	-	-	-	INA	3	2	
					5678A	Y	-	-	-	ACT	4	1	
					5731	Y	-	-	-	ACT	1	1	
					5852	Y	-	-	-	ACT	1	1	
	65070	Multipurpose Machine Gun Range (MPMG2)	7.62mm & .50 Cal	A14-03R	0866	N	N	Y	N	ACT	1	1	
					3412A	N	N	Y	N	INA	3	1	
					4204	N	N	Y	N	ACT	1	1	
					4267A	N	N	N	N	INA	4	1	
					5551	Y	-	-	-	ACT	1	1	2007 - 2008
				A17-02 *	3563	Y	-	-	-	ACT	1	1	
					4329	Y	-	-	-	INA	1	1	
					4751A	Y	-	-	-	ACT	4	2	
					4752A	Y	-	-	-	INA	4	1	
					4846	Y	-	-	-	INA	1	1	
					5753	Y	-	-	-	ACT	1	1	2007 - 2008
				A17-06	0320	Y	-	-	-	INA	1	1	
					2802	Y	-	-	-	INA	2	2	
					3329	Y	-	-	-	INA	1	2	
					3432	Y	-	-	-	ACT	1	1	
					3630	Y	-	-	-	INA	2	2	
					3681	Y	-	-	-	INA	2	2	
					4512	Y	-	-	-	ACT	2	2	
					4513	Y	-	-	-	ACT	1	1	
					4514	Y	-	-	-	INA	2	2	
					4515	Y	-	-	-	INA	2	2	
					4516	Y	-	-	-	ACT	1	1	
					4782	Y	-	-	-	ACT	1	1	
					5621	Y	-	-	-	ACT	1	1	2008
				A17-08	3692A	Y	-	-	-	INA	4	1	
					3949	Y	-	-	-	INA	1	1	
					4245	Y	-	-	-	ACT	1	1	
					4933	Y	-	-	-	INA	1	2	
					5073	Y	-	-	-	ACT	1	1	2007 - 2008

Activity Status

ACT	Active
INA	Inactive

Stage

1	Natural RCW cavity	4	Insert cavity
2	Natural start	5	Drilled start
3	Drilled cavity		

Cavity Condition

1	Suitable
2	Unsuitable

* These clusters were analyzed and "taken" by Transformation projects, but project impacts within this partition are currently being re-analyzed by MCOE projects.

Table 3-9 (cont.). Red-cockaded woodpecker cavity trees impacted within active clusters impacted by Fiscal Year 2009 - 2011 **Alternative B**, MCOE projects, Fort Benning, Georgia.

Fiscal Year	Project Number	Project Name	Ammunition	Cluster Number	Cavity Tree	Tree Taken? (Yes (Y)/ No (N))	Impact within 50 feet? (Y/N)	Impact within 51 - 200 feet? (Y/N)	Harassment	Activity Status	Stage	Cavity Condition	Nest tree History
2011	65070	Multipurpose Machine Gun Range (MPMG2)	7.62mm & .50 Cal	A17-11R	2405	Y	-	-	-	INA	1	2	
					2545A	Y	-	-	-	ACT	4	1	
					2547A	Y	-	-	-	ACT	4	1	2007 - 2008
					2548A	Y	-	-	-	ACT	4	2	
					3308A	Y	-	-	-	INA	5	2	
					3680	Y	-	-	-	INA	1	2	
					4201	Y	-	-	-	INA	2	1	
					4560	Y	-	-	-	ACT	1	1	
					4845	Y	-	-	-	INA	2	2	
					5391	Y	-	-	-	ACT	1	1	
				A17-13	3628	Y	-	-	-	INA	1	1	
					3845A	Y	-	-	-	INA	4	2	
					3846A	Y	-	-	-	INA	4	2	
					3847A	Y	-	-	-	INA	4	2	
					4234	Y	-	-	-	ACT	1	1	
					4235	Y	-	-	-	INA	1	2	
					4781A	Y	-	-	-	INA	4	2	
					4860	Y	-	-	-	ACT	1	1	
					5388	Y	-	-	-	ACT	1	1	
					5880	Y	-	-	-	ACT	1	2	2008
			Total number of trees impacted in 2011			**61**	**0**	**5**					

Activity Status

ACT	Active
INA	Inactive

Stage

1	Natural RCW cavity	4	Insert cavity
2	Natural start	5	Drilled start
3	Drilled cavity		

Cavity Condition

1	Suitable
2	Unsuitable

* These clusters were analyzed and "taken" by Transformation projects, but project impacts within this partition are currently being re-analyzed by MCOE projects.

Table 3-10. Red-cockaded woodpecker cavity trees impacted within inactive clusters impacted by Fiscal Year 2009 - 2012 **Alternative B**, MCOE projects, Fort Benning, Georgia.

Fiscal Year	Project Number	Project Name	Ammunition	Cluster Number	Cavity Tree	Tree Taken? (Yes (Y)/ No (N))	Impact within 50 feet? (Y/N)	Impact within 51 - 200 feet? (Y/N)	Harassment	Activity Status	Stage	Cavity Condition	Nest tree History
2009	65554	Construct Training Area Roads Paved		O09-03R	3768A	N	N	Y	-	INA	4	1	-
					3769A	N	N	Y	-	INA	4	1	-
					3770A	N	N	Y	-	INA	4	1	-
					3771A	N	N	Y	-	INA	4	1	-
	69358	Range Access Road - Good Hope MTA		HCC-01R	4397A	N	N	N	-	INA	4	2	-
					4417A	N	N	N	-	INA	4	2	-
					4418A	N	N	Y	-	INA	4	2	-
	69743	Southern Training Area Infrastructure - Maneuver Area		D17-02	176	N	N	N	-	INA	1	1	-
					1599	N	N	N	-	INA	1	1	-
					1600	N	N	Y	-	INA	1	2	-
					1823	N	N	N	-	INA	1	2	-
					2387	N	N	N	-	INA	1	1	-
					3871	N	N	N	-	INA	1	2	-
					4536	N	N	N	-	INA	2	2	-
					4537	N	N	Y	-	INA	2	2	-
					5604	N	N	N	-	INA	1	1	-
				F01-02R	4632A	N	N	Y	-	INA	4	2	-
					4633A	N	N	Y	-	INA	4	1	-
					4634A	N	N	Y	-	INA	4	1	-
					4635A	N	N	Y	-	INA	4	1	-
	72017	Vehicle Recovery Training Area		R01-02R	2613A	Y	-	-	-	INA	4	2	-
					2614A	Y	-	-	-	INA	4	2	-
					2632A	Y	-	-	-	INA	4	2	-
					2633A	Y	-	-	-	INA	4	2	-
					5609A	N	N	Y	-	INA	4	2	-
					5610A	N	N	Y	-	INA	3	1	-
					5611A	N	N	Y	-	INA	4	1	-
					5612A	N	N	Y	-	INA	3	1	-
2012	65246	Recreation Centers, Harmony Church and SandHill		SHC-01R	3245	N	N	Y	-	INA	1	2	-
					Total number of trees impacted	**4**	**0**	**16**					

Activity Status

ACT	Active
INA	Inactive

Stage

1	Natural RCW cavity	4	Insert cavity
2	Natural start	5	Drilled start
3	Drilled cavity		

Cavity Condition

1	Suitable
2	Unsuitable

Table 3-11. Red-cockaded woodpecker (RCW) groups impacted directly or indirectly using the Standard for Managed Stability (USFWS 2003a) for Fort Benning MCOE projects, **Alternative B**, Fort Benning, Georgia.

Impacted Cluster	Habitat Deficient	Total Acreage Removed by Project (Suitable/ Potentially Suitable)	# of Cavity Trees Removed	Take by Cavity Tree Loss	Take by Habitat/ Forage Loss	Take by Harassment	Group Level Take[1]	Neighborhood Level Take[1, 2]
	Pre-Project							
A06-01	N	1.79	0	N	N	N	N	N
A07-01	Y	2.96	0	N	Y	-	-	-
A08-01	N	4.42	0	N	N	N	N	N
A08-02a	N	3.09	0	N	N	N	N	N
A08-03	N	0.00	0	N	N	N	N	N
A08-04	Y	0.00	0	N	N	N	N	N
A09-03R	N	13.28	0	N	N	N	N	N
A09-04R	Y	0.00	0	N	N	N	N	N
A09-05	N	3.98	0	N	N	N	N	N
A14-03R	Y	38.20	1 of 5	N	Y	-	-	-
A17-01	N	117.97	5 of 5	Y	Y	-	-	-
A17-02	Y	60.44	6 of 6	Y	Y	-	-	-
A17-03	N	108.27	10 of 10	Y	Y	-	-	-
A17-04	N	70.89	0	N	N	N	N	N
A17-05	N	91.74	9 of 9	Y	Y	-	-	-
A17-06	N	96.51	13 of 13	Y	Y	-	-	-
A17-07	N	92.43	8 of 8	Y	Y	-	-	-
A17-08	N	111.84	5 of 5	Y	Y	-	-	-
A17-11R	N	106.53	10 of 10	Y	Y	-	-	-
A17-12R	Y	4.75	0	N	Y	-	-	-
A17-13	N	104.78	10 of 10	Y	Y	-	-	-
A17-14a	N	86.65	8 of 8	Y	Y	-	-	-
A17-14b	N	56.36	2 of 2	Y	Y	-	-	-
A20-04	N	6.47	0	N	N	N	Y	-
A20-06	N	20.46	0	N	N	N	N	N
BB03-01R	Y	2.02	0	N	Y	-	-	-
BB04-01R	N	7.48	0	N	N	N	N	N
BB05-01R	N	13.21	0	N	N	N	N	N
C01-02	N	2.34	0	N	N	N	N	N
C01-03	N	4.96	0	N	N	N	N	N
C01-06	N	9.44	0	N	N	N	N	N
C02-02	N	16.56	0	N	N	N	N	N
D05-02R	N	34.50	0	N	N	N	N	N
D05-04R	N	121.72	0	N	N	N	N	N
D06-01R	Y	0.03	0	N	Y	-	-	-
D08-01R	N	46.40	0	N	Y	-	-	-
D10-01	Y	2.50	0	N	Y	-	-	-
D11-01	N	49.86	0	N	Y	-	-	-
D11-02	N	88.91	7 of 7	Y	Y	-	-	-
D12-01	N	13.87	0	N	N	N	N	N

Table 3-11 (cont.). Red-cockaded woodpecker (RCW) groups impacted directly or indirectly using the Standard for Managed Stability (USFWS 2003a) for Fort Benning MCOE projects, **Alternative B**, Fort Benning, Georgia.

Impacted Cluster	Habitat Deficient	Total Acreage Removed by Project (Suitable/ Potentially Suitable)	# of Cavity Trees Removed	Take by Cavity Tree Loss	Take by Habitat/ Forage Loss	Take by Harassment	Group Level Take[1]	Neighborhood Level Take[1, 2]
	Pre-Project							
D16-01	Y	18.50	0	N	Y	-	-	-
D16-02	Y	16.55	0	N	Y	-	-	-
D17-01	N	59.73	0	N	Y	-	-	-
D17-03	N	62.30	0	N	Y	-	-	-
D17-04R	N	43.23	0	N	Y	-	-	-
E02-01	N	1.96	0	N	N	N	N	N
E04-01	N	49.27	3 of 8	N	Y	-	-	-
F02-01R	Y	41.86	0	N	Y	-	-	-
HCC-08R	N	0.61	0	N	N	N	N	N
HCC-10R	N	18.84	2 of 10	N	N	Y	-	-
HCC-11R	Y	0.93	0	N	Y	-	-	-
J01-02R	Y	2.88	0	N	Y	-	-	-
J02-02R	Y	4.69	5 of 9	Y	Y	-	-	-
J06-03	N	36.99	0	N	N	N	N	N
K02-01	Y	0.48	6 of 6	Y	Y	-	-	-
K08-03	N	12.50	0	N	N	N	N	N
K08-04	N	13.78	0	N	N	N	N	N
K09-01	N	1.20	0	N	N	N	N	N
K09-02R	N	19.90	0	N	N	N	N	N
K09-03R	N	9.84	1 of 8	N	N	N	N	N
K11-02	N	59.34	0	N	N	N	Y	-
K11-04R	Y	9.29	0	N	Y	-	-	-
K12-01	N	45.82	6 of 7	Y	N	-	-	-
K13-02	N	58.38	0	N	Y	-	-	-
K13-04	N	61.90	10 of 10	Y	Y	-	-	-
K13-05R	Y	12.77	0	N	Y	-	-	-
K13-06	N	0.63	0	N	N	N	Y	-
K21-02R	N	32.19	0	N	N	N	N	N
K21-05R	N	68.78	0	N	N	N	N	N
KPR-01	N	18.43	0	N	N	N	N	N
L02-02R	N	17.31	0	N	N	N	Y	-
L03-01	Y	4.66	0	N	Y	-	-	-
M01-01	Y	1.69	0	N	Y	-	-	-
M08-01	N	12.05	2 of 9	N	N	Y	-	-
M08-02a	N	9.16	0	N	N	N	N	N
M08-02b	N	9.36	1 of 5	N	N	Y	-	-
M08-04R	N	2.63	0	N	N	N	N	N
M08-05R	N	2.10	0	N	N	N	N	N
N01-02	N	3.34	0	N	N	N	N	N
O01-01	N	2.31	0	N	N	N	N	N
O01-02	Y	4.45	0	N	Y	-	-	-

Table 3-11 (cont.). Red-cockaded woodpecker (RCW) groups impacted directly or indirectly using the Standard for Managed Stability (USFWS 2003a) for Fort Benning MCOE projects, **Alternative B**, Fort Benning, Georgia.

Impacted Cluster	Habitat Deficient	Total Acreage Removed by Project (Suitable/ Potentially Suitable)	# of Cavity Trees Removed	Take by Cavity Tree Loss	Take by Habitat/ Forage Loss	Take by Harassment	Group Level Take[1]	Neighborhood Level Take[1, 2]
	Pre-Project							
O01-03	N	9.43	0	N	N	N	N	N
O01-04R	N	12.82	0	N	N	N	N	N
O02-01R	N	9.64	0	N	N	N	N	N
O03-01	Y	5.74	6 of 9	Y	Y	-	-	-
O03-02	N	20.77	0	N	N	N	N	N
O03-03	Y	8.55	4 of 9	Y	Y	-	-	-
O03-04	Y	5.26	0	N	Y	-	-	-
O03-05	N	17.67	0	N	N	N	N	N
O03-06R	N	22.34	0	N	N	N	N	N
O03-07	N	10.42	0	N	N	N	N	N
O04-01	Y	0.00	2 of 7	N	Y	-	-	-
O04-03a	Y	0.00	0	N	Y	-	-	-
O04-03b	Y	4.37	3 of 5	Y	Y	-	-	-
O05-01	N	24.75	0	N	N	N	N	N
O05-02	N	38.74	1 of 7	N	Y	-	-	-
O05-03R	N	36.44	0	N	N	N	N	N
O07-01R	N	12.13	0	N	N	N	Y	-
O07-03R	N	9.34	0	N	N	N	Y	-
O08-01	Y	6.53	0	N	Y	-	-	-
O08-02	N	3.70	0	N	Y	-	-	-
O09-02	N	0.00	0	N	N	N	Y	-
O10-01	N	12.20	0	N	N	N	N	N
O10-02	Y	5.08	0	N	Y	-	-	-
O10-03	N	10.51	0	N	N	N	N	N
O10-04	N	12.48	0	N	N	N	N	N
O11-01	N	4.84	0	N	N	N	N	N
O11-02	Y	13.77	1	N	Y	-	-	-
O13-01	Y	1.81	1 of 12	N	Y	-	-	-
O13-06R	Y	7.35	0	N	Y	-	-	-
O14-03R	N	3.20	0	N	N	N	N	N
O15-01	Y	0.00	0	N	Y	-	-	-
O15-03	Y	2.83	0	N	Y	-	-	-
Q02-02	N	50.20	0	N	N	N	N	N
Q02-03	N	79.66	3 of 10	N	N	Y	-	-
Q02-04R	N	71.17	1 of 6	N	Y	-	-	-
R02-01R	N	28.34	0	N	Y	-	-	-
S01-01	N	0.80	0	N	N	N	N	N
S02-01R	N	6.80	0	N	N	N	N	N
S03-01R	Y	2.12	0	N	Y	-	-	-
SHC-02	N	0.52	0	N	N	N	Y	-

Table 3-11 (cont.). Red-cockaded woodpecker (RCW) groups impacted directly or indirectly using the Standard for Managed Stability (USFWS 2003a) for Fort Benning MCOE projects, **Alternative B**, Fort Benning, Georgia.

Impacted Cluster	Habitat Deficient	Total Acreage Removed by Project (Suitable/ Potentially Suitable)	# of Cavity Trees Removed	Take by Cavity Tree Loss	Take by Habitat/ Forage Loss	Take by Harassment	Group Level Take[1]	Neighborhood Level Take[1, 2]
	Pre-Project							
T02-01	Y	5.07	0	N	Y	-	-	-
T02-02R	Y	7.59	0	N	Y	-	-	-
CLUSTER NOT IMPACTED BY MCOE PROJECTS								
D11-03R	–	–	0	–	–	–	N	Y
J01-01	–	–	0	–	–	–	N	Y
J01-03R	–	–	0	–	–	–	N	Y
K10-10R	–	–	0	–	–	–	N	Y
K11-03	–	–	0	–	–	–	N	Y
K14-01R	–	–	0	–	–	–	N	Y
O04-02	–	–	0	–	–	–	N	Y
O06-03R	–	–	0	–	–	–	N	Y
O06-04R	–	–	0	–	–	–	N	Y
O12-02	–	–	0	–	–	–	N	Y
TOTAL		**3,055.22**	**151**	**19**	**58**	**4**	**8**	**10**

[1] If a RCW cluster is "taken" by habitat loss or cavity tree loss, it was not considered at the group or neighborhood level.

[2] Additional takes due to Neighborhood impacts are conceivable due to habitat fragmentation, reduction of productivity and dispersal impairment.

[3] This group was not considered a "take" because minimization efforts were made and no suitable or potentially suitable habitat was impacted.

Post-project results are presented in Tables 3-2, 3.3, 3-11 – 15 Figures 3-3 – 3-13 and Appendices G, H and I.

FB Cluster A06-01: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 12 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be taken or impacted by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 7,067.44 ft^2 of pine BA on 153.64 acres of suitable habitat and 734.22 ft^2 of pine BA on 33.72 acres of future potential habitat. There were 35.23 acres of forested habitat within the A20 Impact Area. There was no potentially suitable habitat (Table 3-2).

The pre- project RS foraging habitat totals were 7,801.66 ft^2 of pine BA on 187.36 acres of future potential habitat. There were 35.23 acres of forested habitat within the A20 Impact Area. There was no suitable or potentially suitable habitat (Table 3-3).

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 96.77 ft^2 of pine BA on 2.42 acres (Table 3-6 and Figure 3-3).

The post- project SMS foraging habitat totals were 6,985.10 ft^2 of pine BA on 151.85 acres of suitable habitat and 719.79 ft^2 of pine BA on 33.09 acres of future potential habitat. There were 35.23 acres of forested habitat within the A20 Impact Area. There was no potentially suitable habitat (Table 3-2). This cluster will <u>not</u> be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 7,704.89 ft^2 of pine BA on 184.94 acres of future potential habitat. There were 35.23 acres of forested habitat within the A20 Impact Area. There was no suitable or potentially suitable habitat (Table 3-3). This partition can meet the RS in the future (Table 3-15).

FB Cluster A07-01: This cluster had a PBG in 2004, 2006, 2007 and 2008; there was a solitary male in 2005 (Table 3-4). There were 7 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be taken or impacted by Alternative B MCOE projects.

Table 3-12. The number of red-cockaded woodpecker clusters requiring Incidental Takes ("Take") by the fiscal year of construction initiation, **Alternative B** Maneuver Center of Excellence projects, Fort Benning, Georgia. **The table does not include group or neighborhood takes.**

Fiscal Year "Taken"	Project Number (PN)	Project Resulting in "Take"	Clusters "Taken"
2009	64551	Mulit-purpose Training Range (MPTR)	K11-04R
	65383	Stationary Tank Range (ST2)*	K02-01***
	65554	Construct Training Area Roads Paved*	J01-02R J02-02R*** O08-01 O08-02 O10-02 O13-06R T02-01
	67457	Infrastructure Support	S03-01R
	69358	Range Access Road - Good Hope MTA*	HCC-10R****
	69741	Alternate 19D/K OSUT Training Area*	Q02-03 Q02-04R
	69742	Northern Training Area Infrastructure	O03-01*** O03-03*** O03-04 O11-02R O15-01 O15-03

Table 3-12 (cont.). The number of red-cockaded woodpecker clusters requiring Incidental Takes ("Take") by the fiscal year of construction initiation, **Alternative B** Maneuver Center of Excellence projects, Fort Benning, Georgia. **The table does not include group or neighborhood takes.**

Fiscal Year "Taken"	Project Number (PN)	Project Resulting in "Take"	Clusters "Taken"
2009 cont'd	69743	Southern Training Area Infrastructure*	D06-01R D08-01R D10-01 D11-01 D11-02*** D16-01 D16-02 D17-01 D17-03 D17-04R E04-01 F02-01R
	72017	Vehicle Recovery Area	R02-01R

Total FY 2009 = 32 Takes

2010	65557	Repair Existing Training Area Roads, Phase 1*	A07-01 BB03-01R HCC-11R L03-01 M01-01 M08-01**** M08-02b**** O01-02 O04-01 O04-03a O04-03b*** O05-02 O13-01

Table 3-12 (cont.). The number of red-cockaded woodpecker clusters requiring Incidental Takes ("Take") by the fiscal year of construction initiation, **Alternative B** Maneuver Center of Excellence projects, Fort Benning, Georgia. **The table does not include group or neighborhood takes.**

Fiscal Year "Taken"	Project Number (PN)	Project Resulting in "Take"	Clusters "Taken"
2010 cont'd	68733	Multi-purpose Machine Gun Range (MPMG1)*	A14-03R A17-01*** A17-03*** A17-05*** A17-06*** A17-07*** A17-08*** A17-13*** A17-14a A17-14b

Total FY 2010 = 23 Takes

2011	64551	Beaten Area MPTR	K12-01 ** K13-02 K13-04*** K13-05R
	65070	Multi-purpose Machine Gun Range (MPMG2)*	A17-02*** A17-11R*** A17-12R

Total FY 2011 = 7 Takes

2012	62953	Rail Loading Facility Expansion*	T02-02R

Total FY 2012 = 1 Takes

When a cluster was impacted by 2 projects in the same fiscal year, the project that removed the most habitat was considered to result in "take".

* Asterisk indicates reanalyzed Transformation projects.

** Cluster "taken" by cavity tree removal.

*** Cluster "taken" by foraging habitat and cavity tree removal.

**** Cluster "taken" by harrassment.

Table 3-13. Post- project suitable and potentially suitable foraging habitat using the Standard for Managed Stability (USFWS 2003a) with a high risk of loblolly pine decline for red-cockaded woodpecker partitions impacted by Alternative B MCOE projects, Fort Benning, Georgia.

Cluster	Total Suitable and Potentially Suitable Acreage	Total High-Risk Suitable and Potentially Suitable Acreage	Percent of Acres At High Risk of Loblolly Pine Decline
A06-01	151.85	0.00	0.00%
A07-01	32.63	11.91	36.50%
A08-01	154.85	23.46	15.15%
A08-02a	85.26	0.00	0.00%
A08-03	97.79	0.00	0.00%
A08-04	27.11	0.00	0.00%
A09-03R	106.68	8.30	7.78%
A09-04R	82.44	55.38	67.18%
A09-05	120.97	54.29	44.88%
A14-03R	29.24	2.87	9.82%
A17-01	0.00	0.00	0.00%
A17-02	2.26	0.00	0.00%
A17-03	0.00	0.00	0.00%
A17-04	141.05	16.70	11.84%
A17-05	18.99	4.66	24.54%
A17-06	0.15	0.00	0.00%
A17-07	0.48	0.00	0.00%
A17-08	0.00	0.00	0.00%
A17-11R	16.79	0.00	0.00%
A17-12R	53.73	0.00	0.00%
A17-13	0.00	0.00	0.00%
A17-14a	0.00	0.00	0.00%
A17-14b	26.55	16.52	62.22%
A20-04	88.66	13.33	15.03%
A20-06	101.09	18.21	18.01%
BB03-01R	38.32	3.50	9.13%
BB04-01R	91.71	25.28	27.57%
BB05-01R	175.45	44.28	25.24%
C01-02	165.36	47.56	28.76%
C01-03	85.82	17.89	20.85%
C01-06	93.13	34.64	37.20%
C02-02	195.73	13.86	7.08%
D05-02R	91.05	7.43	8.16%
D05-04R	122.15	60.84	49.81%
D06-01R	63.09	7.97	12.63%
D08-01R	39.61	21.69	54.76%
D10-01	45.68	22.30	48.82%
D11-01	44.15	12.83	29.06%
D11-02	0.15	0.00	0.00%
D12-01	93.01	2.91	3.13%
D16-01	38.64	0.00	0.00%
D16-02	0.00	0.00	0.00%
D17-01	84.82	71.23	83.98%
D17-03	51.79	14.35	27.71%
D17-04R	47.56	0.00	0.00%

Table 3-13 (cont'd). Post- project suitable and potentially suitable foraging habitat using the Standard for Managed Stability (USFWS 2003a) with a high risk of loblolly pine decline for red-cockaded woodpecker partitions impacted by Alternative B MCOE projects, Fort Benning, Georgia.

Cluster	Total Suitable and Potentially Suitable Acreage	Total High Risk Suitable and Potentially Suitable Acreage	Percent of Acres At High Risk of Loblolly Pine Decline
E02-01	106.50	6.96	6.54%
E04-01	65.73	15.86	24.13%
F02-01R	11.82	0.87	7.36%
HCC-08R	96.20	21.07	21.90%
HCC-10R	113.15	27.22	24.06%
HCC-11R	10.62	1.02	9.60%
J01-02R	48.04	0.34	0.71%
J02-02R	13.35	0.00	0.00%
J06-03	178.15	4.35	2.44%
K02-01	0.04	0.04	100.00%
K08-03	85.48	26.35	30.83%
K08-04	136.31	34.49	25.30%
K09-01	89.08	0.16	0.18%
K09-02R	107.09	0.01	0.01%
K09-03R	178.90	47.17	26.37%
K11-02	164.98	22.53	13.66%
K11-04R	37.21	2.65	7.12%
K12-01	91.29	8.64	9.46%
K13-02	41.60	8.64	20.77%
K13-04	32.91	15.46	46.98%
K13-05R	42.30	1.30	3.07%
K13-06	162.60	57.20	35.18%
K21-02R	142.83	0.39	0.27%
K21-05R	176.60	1.26	0.71%
KPR-01	131.35	83.35	63.46%
L02-02R	124.17	16.30	13.13%
L03-01	45.83	6.16	13.44%
M01-01	46.62	2.61	5.60%
M08-01	123.04	30.10	24.46%
M08-02a	131.73	10.10	7.67%
M08-02b	76.98	1.14	1.48%
M08-04R	92.58	34.14	36.88%
M08-05R	176.68	69.64	39.42%
N01-02	91.25	40.38	44.25%
O01-01	136.76	26.99	19.74%
O01-02	31.76	2.00	6.30%
O01-03	100.32	32.14	32.04%
O01-04R	108.75	17.11	15.73%
O02-01R	106.35	3.56	3.35%
O03-01	40.53	9.50	23.44%
O03-02	95.65	1.48	1.55%
O03-03	37.27	14.72	39.50%
O03-04	31.10	11.52	37.04%
O03-05	178.80	45.57	25.49%
O03-06R	99.98	34.60	34.61%
O03-07	111.96	49.92	44.59%
O04-01	0.00	0.00	0.00%
O04-03a	0.00	0.00	0.00%

Table 3-13 (cont'd). Post- project suitable and potentially suitable foraging habitat using the Standard for Managed Stability (USFWS 2003a) with a high risk of loblolly pine decline for red-cockaded woodpecker partitions impacted by Alternative B MCOE projects, Fort Benning, Georgia.

Cluster	Total Suitable and Potentially Suitable Acreage	Total High Risk Suitable and Potentially Suitable Acreage	Percent of Acres At High Risk of Loblolly Pine Decline
O04-03b	21.81	1.18	5.41%
O05-01	204.13	48.42	23.72%
O05-02	61.60	1.87	3.04%
O05-03R	157.13	32.07	20.41%
O07-01R	119.61	80.09	66.96%
O07-03R	139.16	117.96	84.77%
O08-01	29.89	14.94	49.98%
O08-02	73.99	32.54	43.98%
O09-02	77.14	14.39	18.65%
O10-01	100.26	66.20	66.03%
O10-02	69.70	43.83	62.88%
O10-03	101.42	53.57	52.82%
O10-04	126.78	82.06	64.73%
O11-01	75.00	19.24	25.65%
O11-02R	57.73	6.75	11.69%
O13-01	58.38	40.71	69.73%
O13-06R	67.06	41.16	61.38%
O14-03R	152.28	75.55	49.61%
O15-01	33.21	2.47	7.44%
O15-03	65.22	24.53	37.61%
Q02-02	103.73	58.16	56.07%
Q02-03	142.23	67.80	47.67%
Q02-04R	33.30	27.30	81.98%
R02-01R	72.40	14.64	20.22%
S01-01	126.43	42.24	33.41%
S02-01R	113.79	40.07	35.21%
S03-01R	44.02	14.69	33.37%
SHC-02	153.18	76.38	49.86%
T02-01	24.20	23.34	96.45%
T02-02R	50.15	40.53	80.82%

cluster is taken by Alternative B Transformation

Table 3-14. Post- project ability of red-cockaded woodpecker (RCW) clusters "**taken**" by **Alternative B** Maneuver Center of Excellence projects to meet the Recovery Standard (RS) (USFWS 2003a) in the future, Fort Benning, Georgia. The table contains only those clusters taken due to loss of foraging habitat.

Cannot Meet RS (< 120 Acres of Manageable Habitat)		**May Not Meet RS (121-149 Acres of Manageable Habitat)**	**Can meet RS (≥ 150 Acres of Manageable Habitat)**
A14-03R	L03-01	D08-01R	A07-01
A17-01	M01-01	D10-01	BB03-01R
A17-02	O03-01	J02-02R	D16-01
A17-03	O04-01	O01-02	D17-01
A17-05	O04-03a	R02-01R	HCC-11R
A17-06	O04-03b	S03-01R	J01-02R
A17-07	O05-02		O03-03
A17-08	O11-02		O03-04
A17-11R	O13-01		O08-01
A17-12R	O15-01		O08-02
A17-13	O15-03		O10-02
A17-14a	Q02-04R		O13-06R
A17-14b			T02-01
D06-01R			T02-02R
D11-01			
D11-02			
D16-02			
D17-03			
D17-04R			
E04-01			
F02-01R			
K02-01			
K11-04R			
K13-02			
K13-04			
K13-05			

Table 3-15. Post- project ability of red-cockaded woodpecker (RCW) clusters **not "taken"** due to loss of foraging habitat by **Alternative B** Maneuver Center of Excellence projects to meet the Recovery Standard (RS) (USFWS 2003a) in the future, Fort Benning, Georgia.

Cannot Meet RS (< 120 Acres of Manageable Habitat)	**May Not Meet RS (121-149 Acres of Manageable Habitat)**	**Can meet RS (≥ 150 Acres of Manageable Habitat)**	
A08-02a	A17-04	A06-01	O05-01
A08-03	A20-06	A08-01	O05-03R
A09-03R	BB04-01R	A08-04	O07-01R
C01-06	C01-03	A09-04R	O07-03R
D05-02R	D05-04R	A09-05	O10-01
K08-03R	HCC-10R[3]	A20-04	O14-03R
K09-02R	K08-04	BB05-01R	S02-01R
M08-02b[3]	K09-01	C01-02	SHC-02
Q02-02	M08-02a	C02-02	
	N01-02	D12-01	
	O01-01	E02-01R	
	O01-03	HCC-08R	
	O01-04R	J06-03	
	O03-02	K09-03R	
	O09-02	K11-02	
	O10-03	K12-01[1]	
	O10-04	K13-06	
	O11-01	K21-02R	
	Q02-03[3]	K21-05R	
	S01-01	KPR-01	
		L02-02R	
		M08-01[3]	
		M08-04R	
		M08-05R	
		O02-01R	
		O03-05	
		O03-06R	
		O03-07	

[1]Cluster is taken to due cavity tree loss.

[2]Cluster is taken indirectly at the group level.

[3]Cluster is taken due to harrassment.

The pre- project SMS foraging habitat totals were 1,313.44 ft^2 of pine BA on 35.59 acres of suitable habitat and 4,009.86 ft^2 of pine BA on 147.44 acres of future potential habitat. There was no potentially suitable habitat (Table 3-2).

The pre- project RS foraging habitat totals were 90.62 ft^2 of pine BA on 1.97 acres of potentially suitable habitat and 5,232.68 ft^2 of pine BA on 181.06 acres of future potential habitat. There was no suitable habitat (Table 3-3).

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 360.31 ft^2 of pine BA on 12.38 acres (Table 3-6 and Figure 3-3).

The post- project SMS foraging habitat totals were 1,212.80 ft^2 of pine BA on 32.63 acres of suitable habitat and 3,750.19 ft^2 of pine BA on 138.02 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 36.50% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 90.62 ft^2 of pine BA on 1.97 acres of potentially suitable habitat and 4,872.37 ft^2 of pine BA on 168.68 acres of future potential habitat (Table 3-3). There was no suitable habitat. This partition can meet the RS in the future (Table 3-14).

This cluster was analyzed and "taken" by Transformation projects, but project impacts within this partition have been reanalyzed by MCOE Projects.

FB Cluster A08-01: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 11 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be taken or impacted by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 4,648.57 ft^2 of pine BA on 113.80 acres of suitable habitat, 1,709.06 ft^2 of pine BA on 45.47 acres of potentially suitable habitat and 377.04 ft^2 of pine BA on 27.96 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 6,734.67 ft^2 of pine BA on 187.23 acres of future potential habitat. There was no suitable or potentially suitable habitat (Table 3-3).

The 2009 Infrastructure Support – Utilities (PN 67457) will remove 75.82 ft^2 of pine BA on 2.73 acres. The 2009 Good Hope MTA Range Access Road (PN 69358) will remove 132.60 ft^2 of pine BA on 3.52 acres (Table 3-5 and Figure 3-3).

The post- project SMS foraging habitat totals were 4,517.83 ft^2 of pine BA on 110.54 acres of suitable habitat, 1,664.98 ft^2 of pine BA on 44.31 acres of potentially suitable habitat and 343.44 ft^2 of pine BA on 26.13 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 15.15% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 6,526.25 ft^2 of pine BA on 180.98 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition can meet the RS in the future (Table 3-15).

FB Cluster A08-02a: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 9 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be taken or impacted by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 2,895.42 ft^2 of pine BA on 81.50 acres of suitable habitat and 294.55 ft^2 of pine BA on 6.85 acres of potentially suitable habitat. There was no future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 1,839.67 ft^2 of pine BA on 49.77 acres of potentially suitable habitat and 1,350.30 ft^2 of pine BA on 38.58 acres of future potential habitat. There was no suitable habitat (Table 3-3).

The 2009 Infrastructure Support – Utilities (PN 67457) will remove 33.97 ft^2 of pine BA on 0.79 acre. The 2009 Good Hope MTA Range Access Road (PN 69358) would remove 84.50 ft^2 of pine BA on 2.30 acres (Table 3-5 and Figure 3-3).

The post- project SMS foraging habitat totals were 2,832.42 ft^2 of pine BA on 79.70 acres of suitable habitat and 239.08 ft^2 of pine BA on 5.56 acres of potentially suitable habitat. There was no future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,784.20 ft^2 of pine BA on 48.48 acres of potentially suitable habitat and 1,287.30 ft^2 of pine BA on 36.78 acres of future potential habitat (Table 3-3). There was no suitable habitat. This partition cannot meet the RS in the future (Table 3-15).

FB Cluster A08-03: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 10 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be taken or impacted by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 4,009.39 ft^2 of pine BA on 97.79 acres of suitable habitat and 51.00 ft^2 of pine BA on 2.00 acres of future potential habitat. There was no potentially suitable habitat. There were 17.33 acres of forested habitat within the A20 Impact Area (Table 3-2).

The pre- project RS foraging habitat totals were 4,060.39 ft^2 of pine BA on 99.79 acres of future potential habitat. There was no suitable or potentially suitable habitat. There were 17.33 acres of forested habitat within the A20 Impact Area (Table 3-3).

The 2009 Anti-Armor Tracking and Live Fire Complex (PN 65078) will remove 5.74 acres of forested habitat within the A20 Impact Area (Table 3-5 and Figure 3-3).

The post- project SMS foraging habitat totals were 4,009.39 ft^2 of pine BA on 97.79 acres of suitable habitat and 51.00 ft^2 of pine BA on 2.00 acres of future potential habitat. There was no potentially suitable habitat. There were 11.59 acres of forested habitat within the A20 Impact Area (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 4,060.39 ft^2 of pine BA on 99.79 acres of future potential habitat. There was no suitable or potentially suitable habitat. There were 11.59 acres of forested habitat within the A20 Impact Area (Table 3-3). This partition cannot meet the RS in the future (Table 3-15).

FB Cluster A08-04: This cluster was inactive from 2004 to 2006 but had a PBG in 2007 and 2008 (Table 3-4) and contained 10 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be taken or impacted by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 1,111.51 ft^2 of pine BA on 27.11 acres of suitable habitat. There was no potentially suitable or future potential habitat. There were 154.79 acres of forested habitat within the A20 Impact Area (Table 3-2).

The pre- project RS foraging habitat totals were 1,111.51 ft^2 of pine BA on 27.11 acres of future potential habitat. There was no suitable or potentially suitable habitat. There were 154.79 acres of forested habitat within the A20 Impact Area (Table 3-3).

The 2009 Anti-Armor Tracking and Live Fire Complex (PN 65078) will remove 6.96 acres of forested habitat within the A20 Impact Area (Table 3-5 and Figure 3-3).

The post- project SMS foraging habitat totals were 1,111.51 ft^2 of pine BA on 27.11 acres of suitable habitat. There was no potentially suitable or future potential habitat. There were 147.83 acres of forested habitat within the A20 Impact Area (Table 3-2). Despite pre-project deficiencies, this cluster will not be taken at the cluster level because of forested acreage within the A20 Impact Area (Tables 3-2, 3-11, 3-12 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,111.51 ft^2 of pine BA on 27.11 acres of future potential habitat. There was no suitable or potentially suitable habitat. There were 147.83 acres of forested habitat within the A20 Impact Area (Table 3-3). This partition cannot meet the RS in the future (Table 3-15).

FB Cluster A09-03R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 10 cavity trees in various stages of completion and suitability (Appendix G). Construction of the Good Hope Range Access Road (PN 69358) will result in impacts within 50 feet of 1 cavity tree and within 51 to 200 feet of a second cavity tree (Table 3-9).

The pre- project SMS foraging habitat totals were 419.17 ft^2 of pine BA on 11.89 acres of suitable habitat, 3,526.72 ft^2 of pine BA on 108.07 acres of potentially suitable habitat and 0.00 ft^2 of pine BA on 8.40 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 3,945.89 ft^2 of pine BA on 128.36 acres of future potential habitat. There was no suitable or potentially suitable habitat.

The 2009 Alternate 19D/K OSUT Training Area – Construct Tank Trails (PN 69741) will remove 284.36 ft^2 of pine BA on 8.49 acres. The 2009 Good Hope MTA Range Access

Road (PN 69358) will remove 172.30 ft^2 of pine BA on 5.09 acres. The 2009 Good Hope Training Area Infrastructure (PN 69668) will remove 0.00 ft^2 of pine BA on 1.19 acres (Table 3-5 and Figure 3-3).

The post- project SMS foraging habitat totals were 161.67 ft^2 of pine BA on 4.64 acres of suitable habitat, 3,327.57 ft^2 of pine BA on 102.04 acres of potentially suitable habitat and 0.00 ft^2 of pine BA on 6.91 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to foraging habitat loss (Tables 3-2, 3-11 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 7.78% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 3,489.24 ft^2 of pine BA on 113.59 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-15).

FB Cluster A09-04R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 5 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be taken or impacted by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 2,563.11 ft^2 of pine BA on 78.15 acres of suitable habitat and 130.85 ft^2 of pine BA on 4.29 acres of potentially suitable habitat and 2,680.81 ft^2 of pine BA on 121.29 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 5,374.77 ft^2 of pine BA on 203.73 acres of future potential habitat. There was no suitable or potentially suitable habitat (Table 3-3).

The 2009 Construction Buffer for Anti-Armor Tracking and Live Fire Complex (PN 65078) will remove 427.70 ft^2 of pine BA on 17.11 acres (Table 3-5 and Figure 3-3).

The post- project SMS foraging habitat totals were 2,563.11 ft^2 of pine BA on 78.15 acres of suitable habitat, 130.85 ft^2 of pine BA on 4.29 acres of potentially suitable habitat and 2,253.11 ft^2 of pine BA on 104.18 acres of future potential habitat (Table 3-2). Because minimization efforts have been made, and no suitable or potentially suitable habitat will be impacted, this cluster will not be taken at the cluster level despite pre-project deficiencies (Tables 3-2, 3-11 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 67.18% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 4,947.07 ft^2 of pine BA on 186.62 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition can meet the RS in the future (Table 3-15).

FB Cluster A09-05: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 6 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be taken or impacted by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 4,190.16 ft^2 of pine BA on 111.60 acres of suitable habitat, 405.51 ft^2 of pine BA on 13.35 acres of potentially suitable habitat and 1,206.58 ft^2 of pine BA on 50.12 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 5,802.25 ft^2 of pine BA on 175.07 acres of future potential habitat. There was no suitable or potentially suitable habitat (Table 3-3).

The 2009 Good Hope MTA Range Access Road (PN 69358) will remove 150.10 ft^2 of pine BA on 4.18 acres (Table 3-5 and Figure 3-3).

The post- project SMS foraging habitat totals were 4,049.56 ft^2 of pine BA on 107.77 acres of suitable habitat, 401.01 ft^2 of pine BA on 13.20 acres of potentially suitable habitat and 1,201.58 ft^2 of pine BA on 49.92 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 44.88% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 5,652.15 ft^2 of pine BA on 170.89 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition can meet the RS in the future (Table 3-15).

FB Cluster A14-03R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 5 cavity trees in various stages of completion and suitability (Appendix G). Construction of the 2011 Multipurpose Machine Gun Range (MPMG2) and beaten area (PN 65070) will remove 1 active cavity tree and have impacts within 51 to 200 feet of 3 other cavity trees (Table 3-9).

The pre- project SMS foraging habitat totals were 3,087.58 ft^2 of pine BA on 64.56 acres of suitable habitat, 95.99 ft^2 of pine BA on 2.88 acres of potentially suitable habitat and 1,146.84 ft^2 of pine BA on 31.61 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 2,452.84 ft^2 of pine BA on 47.17 acres of potentially suitable habitat and 1,877.57 ft^2 of pine BA on 51.88 acres of future potential habitat. There was no suitable habitat (Table 3-3).

Construction buffers for the 2010 MPMG1 and 2011 MPMG2 will remove 1,960.05 ft^2 of pine BA on 38.20 acres (Table 3-6 and Figure 3-5).

The post- project SMS foraging habitat totals were 1,127.53 ft^2 of pine BA on 26.36 acres of suitable habitat, 95.99 ft^2 of pine BA on 2.88 acres of potentially suitable habitat and 1,146.84 ft^2 of pine BA on 31.61 acres of future potential habitat (Table 3-2). This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-13). Loblolly pine that is at high risk of decline accounts for 9.82% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 554.84 ft^2 of pine BA on 10.67 acres of potentially suitable habitat and 1,815.52 ft^2 of pine BA on 50.18 acres of future potential habitat (Table 3-3). There was no suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

FB Cluster A17-01: This cluster had a PBG in 2007 and 2008 and unknown status in 2006 (Table 3-4). It had been designated as a relic site removed from management prior to 2006. This cluster had 5 cavity trees in various stages of completion and suitability (Appendix G). Construction of the 2010 MPMG1 and beaten area (PN 68733) will remove all 5 cavity trees, which will result in "take" of the cluster from loss of cavity trees (Tables 3-9 and 3-11).

The pre- project SMS foraging habitat totals were 4,545.01 ft^2 of pine BA on 85.96 acres of suitable habitat and 1,509.58 ft^2 of pine BA on 32.01 acres of potentially suitable habitat. There was no future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 4,545.01 ft^2 of pine BA on 32.01 acres of potentially suitable habitat and 1,509.58 ft^2 of pine BA on 32.01 acres of future potential habitat. There was no suitable habitat (Table 3-3).

The 2010 MPMG1 (PN 68733) will remove 2,631.51 ft^2 of pine BA on 52.51 acres. The MPMG1 construction limits will remove 3,202.87 ft^2 of pine BA on 61.92 acres (Table 3-6 and Figure 3-5). The 2011 MPMG2 (PN 65070) will remove 220.21 ft^2 of pine BA on 3.54 acres (Table 3-7 and Figure 3-5).

There was no suitable, potentially suitable or future potential SMS foraging habitat post-project (Table 3-2). This cluster will also be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-13). Loblolly pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

There was no suitable, potentially suitable or future potential RS foraging habitat post-project (Table 3-3). This partition cannot meet the RS in the future (Table 3-14).

This cluster was analyzed and "taken" by Transformation projects, but project impacts within this partition have been reanalyzed by MCOE Projects.

FB Cluster A17-02: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 6 cavity trees in various stages of completion and suitability (Appendix G). Construction of the 2011 MPMG2 (PN 68733) and beaten area will remove all 6 cavity trees, which will result in "take" of the cluster from loss of cavity trees (Tables 3-9 and 3-11).

The pre- project SMS foraging habitat totals were 3,298.06 ft^2 of pine BA on 62.70 acres of suitable habitat and 428.19 ft^2 of pine BA on 58.72 acres of future potential habitat. There was no potentially suitable habitat (Table 3-2).

The pre- project RS foraging habitat totals were 3,298.06 ft^2 of pine BA on 62.70 acres of potentially suitable habitat and 428.19 ft^2 of pine BA on 58.72 acres of future potential habitat. There was no suitable habitat (Table 3-3).

The 2011 MPMG2 (PN 65070) will remove 1,412.21 ft^2 of pine BA on 44.86 acres. The MPMG2 construction limits will remove 2,083.33 ft^2 of pine BA on 70.22 acres (Table 3-7 and Figure 3-5). The 2012 MPMG2 beaten area will remove 99.47 ft^2 of pine BA on 2.03 acres (Table 3-8 and Figure 3-5).

The post- project SMS foraging habitat totals were 110.74 ft^2 of pine BA on 2.26 acres of suitable habitat and 20.50 ft^2 of pine BA on 2.05 acres of future potential habitat. There was no potentially suitable habitat (Table 3-2). This cluster will also be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-13). Loblolly pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 110.74 ft^2 of pine BA on 2.26 acres of potentially suitable habitat and 20.50 ft^2 of pine BA on 2.05 acres of future potential habitat. There was no suitable habitat (Table 3-3). This partition cannot meet RS in the future (Table 3-14).

This cluster was analyzed and "taken" by Transformation projects, but project impacts within this partition have been reanalyzed by MCOE Projects.

FB Cluster A17-03: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 10 cavity trees in various stages of completion and suitability (Appendix G). Construction of the 2010 MPMG1 (PN 68733) and beaten area will remove all 10 cavity trees, which will result in "take" of the cluster from loss of cavity trees (Tables 3-9 and 3-11).

The pre- project SMS foraging habitat totals were 4,660.04 ft^2 of pine BA on 88.10 acres of suitable habitat and 1,008.50 ft^2 of pine BA on 20.17 acres of potentially suitable habitat. There was no future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 2,805.40 ft^2 of pine BA on 53.95 acres of potentially suitable habitat and 2,863.14 ft^2 of pine BA on 54.32 acres of future potential habitat. There was no suitable habitat (Table 3-3).

The 2010 MPMG1 (PN 68733) will remove 4,925.31 ft^2 of pine BA on 93.99 acres. The MPMG1 construction limits will remove 686.55 ft^2 of pine BA on 13.19 acres (Table 3-6 and Figure 3-5). The 2011 MPMG2 (PN 65070) will remove 56.67 ft^2 of pine BA on 1.09 acre (Table 3-6 and Figure 3-5).

There was no suitable, potentially suitable or future potential SMS foraging habitat post-project (Table 3-2). This cluster will also be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-13). Loblolly pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

There was no suitable, potentially suitable or future potential RS foraging habitat post-project (Table 3-3). This partition cannot meet the RS in the future (Table 3-14).

This cluster was analyzed and "taken" by Transformation projects, but project impacts within this partition have been reanalyzed by MCOE Projects.

FB Cluster A17-04: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 9 cavity trees in various stages of completion and suitability (Appendix G). Construction of the 2010 MPMG1 (PN 68733) will impact 2 cavity trees within 51 to 200 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 7,150.66 ft^2 of pine BA on 140.02 acres of suitable habitat, 4,049.31 ft^2 of pine BA on 71.92 acres of potentially suitable habitat and 3.77 ft^2 of pine BA on 3.98 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 2,042.04 ft^2 of pine BA on 39.27 acres of potentially suitable habitat and 9,161.70 ft^2 of pine BA on 176.65 acres of future potential habitat. There was no suitable habitat (Table 3-3).

The 2010 MPMG1 (PN 68733) construction limits will remove 3,845.51 ft^2 of pine BA on 70.89 acres (Table 3-6 and Figure 3-5).

The post- project SMS foraging habitat totals were 3,858.46 ft^2 of pine BA on 80.25 acres of suitable habitat, 3,496.00 ft^2 of pine BA on 60.80 acres of potentially suitable habitat and 3.77 ft^2 of pine BA on 3.98 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-13). Loblolly pine that is at high risk of decline accounts for 11.84% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,349.92 ft^2 of pine BA on 25.96 acres of potentially suitable habitat and 6,004.80 ft^2 of pine BA on 119.07 acres of future potential habitat (Table 3-3). There was no suitable habitat. This partition may meet the RS in the future (Table 3-15).

FB Cluster A17-05: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 9 cavity trees in various stages of completion and suitability (Appendix G). Construction of the 2010 MPMG1 (PN 68733) will remove all 9 cavity trees, which will result in "take" of the cluster from loss of cavity trees (Tables 3-9 and 3-11).

The pre- project SMS foraging habitat totals were 4,311.47 ft^2 of pine BA on 100.35 acres of suitable habitat, 550.14 ft^2 of pine BA on 10.38 acres of potentially suitable habitat and 17.52 ft^2 of pine BA on 2.92 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 3,776.85 ft^2 of pine BA on 83.93 acres of potentially suitable habitat and 1,102.28 ft^2 of pine BA on 29.72 acres of future potential habitat. There was no suitable habitat (Table 3-3).

The 2010 MPMG1 (PN 68733) construction limits will remove 4,131.98 ft^2 of pine BA on 93.33 acres (Table 3-6 and Figure 3-5).

The post- project SMS foraging habitat totals were 739.17 ft^2 of pine BA on 18.99 acres of suitable habitat and 7.98 ft^2 of pine BA on 1.33 acre of future potential habitat. There was no potentially suitable habitat (Table 3-2). This cluster will also be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-13). Loblolly pine that is at high risk of decline accounts for 24.54% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 439.20 ft^2 of pine BA on 9.76 acres of potentially suitable habitat and 307.95 ft^2 of pine BA on 10.56 acres of future potential habitat. There was no suitable habitat (Table 3-3). This partition cannot meet RS in the future (Table 3-14).

FB Cluster A17-06: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 13 cavity trees in various stages of completion and suitability (Appendix G). Construction of the 2011 MPMG2 (PN 65070) will remove all 13 cavity trees, which will result in "take" of the cluster from loss of cavity trees (Tables 3-9 and 3-11).

The pre- project SMS foraging habitat totals were 4,321.54 ft^2 of pine BA on 96.66 acres of suitable habitat and 98.00 ft^2 of pine BA on 24.01 acres of future potential habitat. There was no potentially suitable habitat (Table 3-2).

The pre- project RS foraging habitat totals were 2,661.88 ft^2 of pine BA on 51.19 acres of potentially suitable habitat and 1,757.66 ft^2 of pine BA on 69.48 acres of future potential habitat. There was no suitable habitat (Table 3-3).

The 2010 Multi-purpose Machine Gun Range Complex construction limits will remove 3,307.26 ft^2 of pine BA on 74.70 acres (Table 3-6 and Figure 3-5). The 2011 MPMG2 (PN 65070) will remove 874.85 ft^2 of pine BA on 18.21 acres. The MPMG2 access road will remove 137.60 ft^2 of pine BA on 3.76 acres (Table 3-7 and Figure 3-5).

The post- project SMS foraging habitat totals were 5.47 ft^2 of pine BA on 0.15 acre of suitable habitat and 94.36 ft^2 of pine BA on 23.85 acres of future potential habitat. There was no potentially suitable habitat (Table 3-2). This cluster will also be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-13). Loblolly pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 99.83 ft^2 of pine BA on 24.00 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition cannot meet RS in the future (Table 3-14).

FB Cluster A17-07: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 8 cavity trees in various stages of completion and suitability (Appendix G). Construction of the 2010 MPMG1 (PN 68733) will remove 7 cavity trees and have impacts within 51 to 200 feet of another (Table 3-4). This will result in "take" of the cluster from loss of cavity trees (Tables 3-9 and 3-11).

The pre- project SMS foraging habitat totals were 3,339.45 ft^2 of pine BA on 74.21 acres of suitable habitat and 960.20 ft^2 of pine BA on 18.70 acres of potentially suitable habitat. There was no future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 3,339.45 ft^2 of pine BA on 74.21 acres of potentially suitable habitat and 960.20 ft^2 of pine BA on 18.70 acres of future potential habitat. There was no suitable habitat (Table 3-3).

The 2010 MPMG1 (PN 68733) will remove 210.89 ft^2 of pine BA on 3.66 acres. The MPMG1 construction limits will remove 3,319.85 ft^2 of pine BA on 72.01 acres (Table 3-6 and Figure 3-5). The 2011 MPMG2 (PN 65070) beaten area will remove 747.31 ft^2 of pine BA on 16.76 acres (Table 3-7 and Figure 3-5).

The post- project SMS foraging habitat totals were 21.60 ft^2 of pine BA on 0.48 acre of suitable habitat. There was no potentially suitable or future potential habitat (Table 3-2). This cluster will also be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-13). Loblolly pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The pre- project RS foraging habitat totals were 21.60 ft^2 of pine BA on 0.48 acre of potentially suitable habitat. There was no suitable or future potential habitat (Table 3-3). This partition cannot meet the RS in the future (Table 3-14).

FB Cluster A17-08: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 5 cavity trees in various stages of completion and suitability (Appendix G). Construction of the 2011 MPMG2 (PN 65070) will remove all 5 cavity trees, which will result in "take" of the cluster by loss of cavity trees (Tables 3-9 and 3-11).

The pre- project SMS foraging habitat totals were 7,119.92 ft^2 of pine BA on 111.84 acres of suitable habitat and 106.10 ft^2 of pine BA on 18.73 acres of future potential habitat. There was no potentially suitable habitat (Table 3-2).

The pre- project RS foraging habitat totals were 7,119.92 ft^2 of pine BA on 111.84 acres of potentially suitable habitat and 106.10 ft^2 of pine BA on 18.73 acres of future potential habitat (Table 3-3). There was no suitable habitat.

The 2010 MPMG1 (PN 68733) will remove 20.28 ft^2 of pine BA on 0.32 acre. The MPMG1 construction limits will remove 779.43 ft^2 of pine BA on 15.38 acres (Table 3-6 and Figure 3-5). The 2011 MPMG2 (PN 65070) will remove 6,426.31 ft^2 of pine BA on 114.87 acres (Table 3-7 and Figure 3-5).

There was no suitable, potentially suitable or future potential SMS foraging habitat post-project (Table 3-2). This cluster will also be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-13). Loblolly pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

There was no suitable, potentially suitable, or future potential RS foraging habitat post-project (Table 3-3). This partition cannot meet the RS in the future (Table 3-14).

FB Cluster A17-11R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 10 cavity trees in various stages of completion and suitability (Appendix G). Construction of the 2011 MPMG2 (PN 65070) will remove all 10 cavity trees, which will result in "take" of the cluster from loss of cavity trees (Tables 3-9 and 3-11).

The pre- project SMS foraging habitat totals were 8,139.12 ft^2 of pine BA on 123.32 acres of suitable habitat and 1.93 ft^2 of pine BA on 0.35 acres of future potential habitat. There was no potentially suitable habitat (Table 3-2).

The pre- project RS foraging habitat totals were 8,139.12 ft^2 of pine BA on 123.32 acres of potentially suitable habitat and 1.93 ft^2 of pine BA on 0.35 acre of future potential habitat (Table 3-3). There was no suitable habitat.

The 2011 MPMG2 (PN 65070) will remove 1,306.14 ft^2 of pine BA on 19.79 acres. The MPMG2 construction limits will remove 5,726.77 ft^2 of pine BA on 87.09 acres (Table 3-6 and Figure 3-5).

The post- project SMS foraging habitat totals were 1,108.14 ft^2 of pine BA on 16.79 acres of suitable habitat (Table 3-2). There was no potentially suitable or future potential habitat. This cluster will also be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-13). Loblolly pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,108.14 ft^2 of pine BA on 16.79 acres of potentially suitable habitat (Table 3-3). There was no suitable or future potential habitat. This partition cannot meet the RS in the future (Table 3-14).

FB Cluster A17-12R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 6 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be taken or impacted by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 977.46 ft^2 of pine BA on 14.81 acres of suitable habitat, 1,593.96 ft^2 of pine BA on 43.67 acres of potentially suitable habitat and 1,486.81 ft^2 of pine BA on 62.53 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 977.46 ft^2 of pine BA on 14.81 acres of potentially suitable habitat and 3,080.77 ft^2 of pine BA on 106.20 acres of future potential habitat. There was no suitable habitat (Table 3-3).

The 2011 MPMG2 (PN 65070) construction limits will remove 998.03 ft^2 of pine BA on 31.22 acres (Table 3-7 and Figure 3-5).

The post- project SMS foraging habitat totals were 663.96 ft^2 of pine BA on 10.06 acres of suitable habitat, 1,593.96 ft^2 of pine BA on 43.67 acres of potentially suitable habitat and

802.28 ft^2 of pine BA on 36.06 acres of future potential habitat (Table 3-2). This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-13). Loblolly pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 663.96 ft^2 of pine BA on 10.06 acres of potentially suitable habitat and 2,396.24 ft^2 of pine BA on 79.73 acres of future potential habitat (Table 3-3). There was no suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

FB Cluster A17-13: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 10 cavity trees in various stages of completion and suitability (Appendix G). Construction of the 2010 MPMG1 (PN 68733) and 2011 MPMG2 (PN 65070) will remove all 10 cavity trees, which will result in "take" of the cluster from loss of cavity trees (Tables 3-9 and 3-11).

The pre- project SMS foraging habitat totals were 4,178.72 ft^2 of pine BA on 80.36 acres of suitable habitat and 1,221.00 ft^2 of pine BA on 24.42 acres of potentially suitable habitat. There was no future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 4,178.72 ft^2 of pine BA on 80.36 acres of potentially suitable habitat and 1,221.00 ft^2 of pine BA on 24.42 acres of future potential habitat. There was no suitable habitat (Table 3-3).

The 2010 MPMG1 (PN 68733) will remove 47.50 ft^2 of pine BA on 0.95 acre. The MPMG1 construction limits will remove 5,082.86 ft^2 of pine BA on 98.65 acres (Table 3-6 and Figure 3-5). The 2011 MPMG2 (PN 65070) will remove 269.36 ft^2 of pine BA on 5.18 acres (Table 3-7 and Figure 3-5).

There was no suitable, potentially suitable or future potential SMS foraging habitat post-project (Table 3-2). This cluster will also be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-13). Loblolly pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

There was no suitable, potentially suitable or future potential RS foraging habitat post-project (Table 3-3). This partition cannot meet the RS in the future (Table 3-14).

FB Cluster A17-14a: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 8 cavity trees in various stages of completion and suitability (Appendix G). Construction of the 2010 MPMG1 (PN 68733) will remove all 8 cavity trees, which will result in "take" of the cluster from loss of cavity trees (Tables 3-9 and 3-11).

The pre- project SMS foraging habitat totals were 3,542.07 ft^2 of pine BA on 66.47 acres of suitable habitat, 1,130.39 ft^2 of pine BA on 20.18 acres of potentially suitable habitat and 95.52 ft^2 of pine BA on 15.92 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 229.32 ft^2 of pine BA on 4.41 acres of potentially suitable habitat and 4,538.66 ft^2 of pine BA on 98.16 acres of future potential habitat. There was no suitable habitat (Table 3-3).

The 2010 MPMG1 (PN 68733) will remove 2,206.06 ft^2 of pine BA on 38.93 acres. The MPMG1 construction limits will remove 2,537.39 ft^2 of pine BA on 59.55 acres (Table 3-6 and Figure 3-5).

The post- project SMS foraging habitat totals were 24.54 ft^2 of pine BA on 4.09 acres of future potential habitat. There was no suitable or potentially suitable habitat (Table 3-2). This cluster will also be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-13). Loblolly pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 24.54 ft^2 of pine BA on 4.09 acres of future potential habitat. There was no suitable or potentially suitable habitat (Table 3-3). This partition cannot meet the RS in the future (Table 3-14).

This cluster was analyzed and "taken" by Transformation projects, but project impacts within this partition have been reanalyzed by MCOE Projects.

FB Cluster A17-14b: This cluster is a newly split group and had a PBG in 2008 (Table 3-4). It contained 2 cavity trees in various stages of completion and suitability (Appendix G). Construction of the 2010 MPMG1 (PN 68733) will remove both cavity trees, which will result in "take" of the cluster from loss of cavity trees (Tables 3-9 and 3-11).

The pre- project SMS foraging habitat totals were 4,636.34 ft^2 of pine BA on 82.91 acres of suitable habitat and 153.02 ft^2 of pine BA on 6.01 acres of future potential habitat. There was no potentially suitable habitat (Table 3-2).

The pre- project RS foraging habitat totals were 4,789.36 ft^2 of pine BA on 89.22 acres of future potential habitat. There was no suitable or potentially suitable habitat (Table 3-3).

The 2010 MPMG1 (PN 68733) will remove 536.75 ft^2 of pine BA on 9.50 acres. The MPMG1 construction limits will remove 2,628.99 ft^2 of pine BA on 47.50 acres (Table 3-6 and Figure 3-5).

The post- project SMS foraging habitat totals were 1,474.43 ft^2 of pine BA on 26.55 acres of suitable habitat and 149.18 ft^2 of pine BA on 5.37 acres of future potential habitat. There was no potentially suitable habitat (Table 3-2). This cluster will also be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-13). Loblolly pine that is at high risk of decline accounts for 62.22% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,623.61 ft^2 of pine BA on 31.92 acres of future potential habitat. There was no suitable or potentially suitable habitat (Table 3-3). This partition cannot meet the RS in the future (Table 3-14).

FB Cluster A20-04: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 8 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be taken or impacted by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 1,059.61 ft^2 of pine BA on 20.97 acres of suitable habitat, 3,424.07 ft^2 of pine BA on 74.16 acres of potentially suitable habitat and 1,545.99 ft^2 of pine BA on 62.22 acres of future potential habitat. There were 155.36 acres of forested habitat within the A20 Impact Area (Table 3-2).

The pre- project RS foraging habitat totals were 272.64 ft^2 of pine BA on 4.26 acres of potentially suitable habitat and 5,757.03 ft^2 of pine BA on 153.09 acres of future potential habitat. There were 155.36 acres of forested habitat within the A20 Impact Area. There was no suitable habitat (Table 3-3).

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 370.52 ft^2 of pine BA on 8.38 acres (Table 3-6 and Figure 3-3)

The post- project SMS foraging habitat totals were 933.28 ft^2 of pine BA on 18.47 acres of suitable habitat, 3,229.54 ft^2 of pine BA on 70.19 acres of potentially suitable habitat and 1,496.33 ft^2 of pine BA on 60.31 acres of future potential habitat. There were 155.36 acres of

forested habitat within the A20 Impact Area (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 15.03% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 272.64 ft^2 of pine BA on 4.26 acres of potentially suitable habitat and 5,386.51 ft^2 of pine BA on 144.71 acres of future potential habitat. There were 155.36 acres of forested habitat within the A20 Impact Area. There was no suitable habitat (Table 3-3). This partition can meet the RS in the future (Table 3-15).

This partition will be taken at the group level due to the decrease in cluster density within 1.25 miles of its cluster center (Tables 3-11, 3-16 and Figure 3-12).

FB Cluster A20-06: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 8 cavity trees in various stages of completion and suitability (Appendix G). The access road for the Automated Combat Pistol Qualification Course (CPQC) (PN 65079) will impact 1 cavity tree within 50 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 4,441.49 ft^2 of pine BA on 121.55 acres of suitable habitat and 1,402.06 ft^2 of pine BA on 50.97 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 5,843.55 ft^2 of pine BA on 172.52 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2010 Automated CPQC (PN 65079) will remove 25.23 ft^2 of pine BA on 0.94 acre. The CPQC construction limits will remove 392.56 ft^2 of pine BA on 12.22 acres. The CPQC beaten area will remove 305.20 ft^2 of pine BA on 8.72 acres. The CPQC access road will remove 133.14 ft^2 of pine BA on 3.57 acres. The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 134.67 ft^2 of pine BA on 4.04 acres (Table 3-6 and Figure 3-3)

The post- project SMS foraging habitat totals were 3,680.71 ft^2 of pine BA on 101.09 acres of suitable habitat and 1,172.04 ft^2 of pine BA on 41.94 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 18.01% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 4,852.75 ft^2 of pine BA on 143.03 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition may meet the RS in the future (Table 3-15).

FB Cluster BB03-01R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 8 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be taken or impacted by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 1,017.39 ft^2 of pine BA on 27.38 acres of suitable habitat, 637.49 ft^2 of pine BA on 12.96 acres of potentially suitable habitat and 1,786.60 ft^2 of pine BA on 100.60 acres of future potential habitat (Table 3-2).

The pre- project RS habitat foraging totals were 424.04 ft^2 of pine BA on 8.78 acres of potentially suitable habitat and 4,414.27 ft^2 of pine BA on 176.08 acres of future potential habitat. There was no suitable habitat (Table 3-3).

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 232.35 ft^2 of pine BA on 9.46 acres (Table 3-6 and Figure 3-3).

The post- project SMS foraging habitat totals were 964.79 ft^2 of pine BA on 26.01 acres of suitable habitat, 606.84 ft^2 of pine BA on 12.31 acres of potentially suitable habitat and 1,599.97 ft^2 of pine BA on 92.17 acres of future potential habitat (Table 3-2). This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 9.13% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 386.60 ft^2 of pine BA on 7.99 acres of potentially suitable habitat and 4,181.83 ft^2 of pine BA on 166.42 acres of future potential habitat (Table 3-3). There was no suitable habitat. This partition may meet the RS in the future (Table 3-14).

This cluster was analyzed and "taken" by Transformation projects, but project impacts within this partition have been reanalyzed by MCOE Projects.

FB Cluster BB04-01R: This cluster had a PBG from 2004 to 2008 (Table 3-4). It had 8 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be taken or impacted by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 4,134.91 ft^2 of pine BA on 102.51 acres of suitable habitat, 291.37 ft^2 of pine BA on 4.02 acres of potentially suitable habitat and 809.54 ft^2 of pine BA on 37.28 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 461.13 ft^2 of pine BA on 10.85 acres of suitable habitat, 1,036.17 ft^2 of pine BA on 23.22 acres of potentially suitable habitat and 3,738.52 ft^2 of pine BA on 109.74 acres of future potential habitat (Table 3-3).

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 414.19 ft^2 of pine BA on 11.51 acres (Table 3-6 and Figure 3-3). As a result of project impacts, 337.64 ft^2 of pine BA on 7.34 acres will be non-contiguous and cannot be counted towards the available foraging habitat for the partition.

The post- project SMS foraging habitat totals were 3,454.94 ft^2 of pine BA on 87.69 acres of suitable habitat, 291.37 ft^2 of pine BA on 4.02 acres of potentially suitable habitat and 737.68 ft^2 of pine BA on 33.25 acres of future potential habitat (Table 3-2). This cluster will <u>not</u> be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 27.57% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 461.13 ft^2 of pine BA on 10.85 acres of suitable habitat, 1,025.50 ft^2 of pine BA on 22.95 acres of potentially suitable habitat and 2,997.36 ft^2 of pine BA on 91.16 acres of future potential habitat (Table 3-3). This partition may meet the RS in the future (Table 3-15).

<u>FB Cluster BB05-01R</u>: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 5 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be taken or impacted by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 3,424.61 ft^2 of pine BA on 87.25 acres of suitable habitat, 3,976.85 ft^2 of pine BA on 101.41 acres of potentially suitable habitat and 1,308.38 ft^2 of pine BA on 55.34 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 8,709.84 ft^2 of pine BA on 244.00 acres of future potential habitat. There was no suitable or potentially suitable habitat (Table 3-3).

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 616.01 ft^2 of pine BA on 13.74 acres (Table 3-6 and Figure 3-3).

The post- project SMS foraging habitat totals were 2,844.09 ft^2 of pine BA on 74.63 acres of suitable habitat, 3,952.36 ft^2 of pine BA on 100.82 acres of potentially suitable habitat and 1,297.38 ft^2 of pine BA on 54.81 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 25.24% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 8,093.83 ft^2 of pine BA on 230.26 of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition can meet the RS in the future (Table 3-15).

FB Cluster C01-02: This cluster had a PBG from 2004 to 2008 (Table 3-4) and had 13 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be taken or impacted by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 19.95 ft^2 of pine BA on 0.42 acre of suitable habitat, 6,711.82 ft^2 of pine BA on 167.28 acres of potentially suitable habitat and 0.00 ft^2 of pine BA on 18.35 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 15.45 ft^2 of pine BA on 0.30 acre of suitable habitat, 2,915.92 ft^2 of pine BA on 64.04 acres of potentially suitable habitat and 3,800.40 ft^2 of pine BA on 121.71 acres of future potential habitat (Table 3-3).

The 2009 Alternate 19D/K OSUT Training Area Roads (PN 69741) will remove 78.81 ft^2 of pine BA on 2.34 acres (Table 3-5 and Figure 3-3).

The post- project SMS foraging habitat totals were 19.95 ft^2 of pine BA on 0.42 acre of suitable habitat, 6,633.01 ft^2 of pine BA on 164.94 acres of potentially suitable habitat and 0.00 ft^2 of pine BA on 18.35 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 28.76% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 15.45 ft^2 of pine BA on 0.30 acre of suitable habitat, 2,915.92 ft^2 of pine BA on 64.04 acres of potentially suitable habitat and 3,721.59 ft^2 of pine BA on 119.37 acres of future potential habitat (Table 3-3). This partition can meet the RS in the future (Table 3-15).

FB Cluster C01-03: This cluster had a PBG from 2004 to 2008 (Table 3-4) and had 12 cavity trees in various stages of completion and suitability (Appendix G). The Repair of Existing Area Training Roads (Phase I) (PN 65557) will have impacts within 51 to 200 feet of 1 cavity tree (Table 3-9).

The pre- project SMS foraging habitat totals were 982.80 ft^2 of pine BA on 18.97 acres of suitable habitat, 2,841.78 ft^2 of pine BA on 71.81 acres of potentially suitable habitat and 676.98 ft^2 of pine BA on 41.32 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 704.55 ft^2 of pine BA on 11.55 acres of suitable habitat, 1,557.11 ft^2 of pine BA on 35.46 acres of potentially suitable habitat and 2,239.90 ft^2 of pine BA on 85.09 acres of future potential habitat (Table 3-3).

The 2009 Infrastructure Support Project (PN 67457) will remove 139.74 ft^2 of pine BA on 3.04 acres (Table 3-5 and Figure 3-3). The 2010 Repair Existing Training Area Roads Project (PN 65557) would remove 184.65 ft^2 of pine BA on 5.39 acres (Table 3-6 and Figure 3-3).

The post- project SMS foraging habitat totals were 912.65 ft^2 of pine BA on 17.82 acres of suitable habitat, 2,680.68 ft^2 of pine BA on 68.00 acres of potentially suitable habitat and 583.84 ft^2 of pine BA on 37.85 acres of future potential habitat (Table 3-2). This cluster will <u>not</u> be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 20.85% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 634.40 ft^2 of pine BA on 10.40 acres of suitable habitat, 1,424.13 ft^2 of pine BA on 32.43 acres of potentially suitable habitat and 2,118.64 ft^2 of pine BA on 80.84 acres of future potential habitat (Table 3-3). This partition may meet the RS in the future (Table 3-15).

FB Cluster C01-06: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 8 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be taken or impacted by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 1,212.32 ft^2 of pine BA on 27.04 acres of suitable habitat, 3,105.49 ft^2 of pine BA on 75.53 acres of potentially suitable habitat and 75.90 ft^2 of pine BA on 19.38 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 1,212.32 ft^2 of pine BA on 27.04 acres of suitable habitat, 2,024.01 ft^2 of pine BA on 47.07 acres of potentially suitable habitat and 1,157.38 ft^2 of pine BA on 47.84 acres of future potential habitat (Table 3-3).

The 2009 Infrastructure Support Project (PN 67457) will remove 147.84 ft^2 of pine BA on 3.53 acres (Table 3-5 and Figure 3-3). The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 265.93 ft^2 of pine BA on 6.98 acres (Table 3-6 and Figure 3-3).

The post- project SMS foraging habitat totals were 1,212.32 ft^2 of pine BA on 27.04 acres of suitable habitat, 2,722.22 ft^2 of pine BA on 66.09 acres of potentially suitable habitat and 45.40 ft^2 of pine BA on 18.31 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 37.20% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,212.32 ft^2 of pine BA on 27.04 acres of suitable habitat, 1,812.88 ft^2 of pine BA on 42.16 acres of potentially suitable habitat and 954.74 ft^2 of pine BA on 42.24 acres of future potential habitat (Table 3-3). This partition cannot meet the RS in the future (Table 3-15).

FB Cluster C02-02: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 9 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be taken or impacted by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 2,079.29 ft^2 of pine BA on 54.25 acres of suitable habitat, 6,171.56 ft^2 of pine BA on 158.04 acres of potentially suitable habitat and 1,000.93 ft^2 of pine BA on 80.72 acres of future potential habitat (Table 3-2).

The pre- project RS habitat totals were 366.80 ft^2 of pine BA on 9.17 acres of suitable habitat and 8,884.98 ft^2 of pine BA on 283.84 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Alternate 19 D/K OSUT Training Area (PN 69741) will remove 618.33 ft^2 of pine BA on 27.82 acres (Table 3-5 and Figure 3-3).

The post- project SMS foraging habitat totals were 1,488.01 ft^2 of pine BA on 37.69 acres of suitable habitat, 6,171.56 ft^2 of pine BA on 158.04 acres of potentially suitable habitat and 973.88 ft^2 of pine BA on 69.46 acres of future potential habitat (Table 3-2). This cluster will not

be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 7.08% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 366.80 ft^2 of pine BA on 9.17 acres of suitable habitat and 8,266.65 ft^2 of pine BA on 256.02 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition can meet the RS in the future (Table 3-15).

FB Cluster D05-02R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 5 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be taken or impacted by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 4,943.82 ft^2 of pine BA on 125.55 acres of suitable habitat and 853.42 ft^2 of pine BA on 38.87 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 5,797.24 ft^2 of pine BA on 164.42 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2009 Southern Training Area Infrastructure – Maneuver Area (PN 69743) will remove 2,118.25 ft^2 of pine BA on 61.38 acres (Table 3-5 and Figure 3-8).

The post- project SMS foraging habitat totals were 3,416.93 ft^2 of pine BA on 91.05 acres of suitable habitat and 262.06 ft^2 of pine BA on 11.99 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-11). Loblolly pine that is at high risk of decline accounts for 8.16% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 3,678.99 ft^2 of pine BA on 103.04 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-15).

FB Cluster D05-04R: This cluster had a PBG from 2005 to 2008 (Table 3-4) and contained 4 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be taken or impacted by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 9,780.13 ft^2 of pine BA on 243.87 acres of suitable habitat and 502.91 ft^2 of pine BA on 46.85 acres of future potential habitat. There was no potentially suitable habitat (Table 3-2).

The pre- project RS foraging habitat totals were 10,283.04 ft^2 of pine BA on 290.72 acres of future potential habitat. There was no suitable or potentially suitable habitat (Table 3-3).

The 2009 Southern Training Area Infrastructure – Maneuver Area (PN 69743) will remove 4,527.35 ft^2 of pine BA on 127.55 acres. The 2009 Southern Training Area Infrastructure – Upgrade Paved Roads and Tank Trails (PN 69743) will remove 385.48 ft^2 of pine BA on 9.59 acres (Table 3-5 and Figure 3-8).

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 496.79 ft^2 of pine BA on 13.49 acres (Table 3-6 and Figure 3-8).

The post- project SMS foraging habitat totals were 4,747.26 ft^2 of pine BA on 122.15 acres of suitable habitat and 126.15 ft^2 of pine BA on 17.94 acres of future potential habitat. There was no potentially suitable habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-11). Loblolly pine that is at high risk of decline accounts for 49.81% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS habitat totals were 4,873.41 ft^2 of pine BA on 140.09 acres of future potential habitat. There was no suitable or potentially suitable habitat (Table 3-3). This partition may meet the RS in the future (Table 3-15).

FB Cluster D06-01R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and had 7 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 1,955.13 ft^2 of pine BA on 63.12 acres of suitable habitat and 1,490.97 ft^2 of pine BA on 92.27 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 3,446.10 ft^2 of pine BA on 155.39 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2009 Southern Training Area Infrastructure – Maneuver Area (PN 69743) will remove 399.61 ft^2 of pine BA on 30.17 acres. The 2009 Southern Training Area Infrastructure –

Upgrade Paved Roads and Tank Trails (PN 69743) will remove 93.63 ft^2 of pine BA on 9.25 acres (Table 3-5 and Figure 3-8). As a result of project impacts, 135.64 ft^2 of pine BA on 13.94 acres will be non-contiguous and cannot be counted towards the available foraging habitat for the partition (Table 3-2).

The post- project SMS foraging habitat totals were 1,954.18 ft^2 of pine BA on 63.09 acres of suitable habitat and 863.04 ft^2 of pine BA on 38.94 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-11). Loblolly pine that is at high risk of decline accounts for 12.63% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 2,817.22 ft^2 of pine BA on 102.03 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition cannot meet RS in the future (Table 3-14).

FB Cluster D08-01R: This cluster had a PBG in 2004, 2007 and 2008; there was a solitary male in 2005 and 2006 (Table 3-4). There were 7 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 3,154.70 ft^2 of pine BA on 86.01 acres of suitable habitat and 1,317.27 ft^2 of pine BA on 131.25 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 5,355.42 ft^2 of pine BA on 242.89 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

Under the SMS, the 2009 Southern Training Area Infrastructure (PN 69743) will remove 2,671.65 ft^2 of pine BA on 85.94 acres (Table 3-5 and Figure 3-8).

Under the RSG, the 2009 Southern Training Area Infrastructure (PN 69743) will remove 3,554.77 ft^2 of pine BA on 111.56 acres (Table 3-5 and Figure 3-8).

The post- project SMS foraging habitat totals were 1,229.88 ft^2 of pine BA on 39.61 acres of suitable habitat and 570.44 ft^2 of pine BA on 91.71 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-11). Loblolly pine that is at high

risk of decline accounts for 54.76% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,800.65 ft^2 of pine BA on 131.33 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition may meet the RS in the future (Table 3-14).

This cluster was analyzed and "taken" by Transformation projects, but project impacts within this partition have been reanalyzed by MCOE Projects.

FB Cluster D10-01: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 11 cavity trees in various stages of completion and suitability (Appendix G). The construction of the Southern Training Area Infrastructure and Upgraded Tank Trails (PN 69743) will impact 2 cavity trees within 51 to 200 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 1,605.05 ft^2 of pine BA on 48.18 acres of suitable habitat and 929.93 ft^2 of pine BA on 105.75 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 1,333.53 ft^2 of pine BA on 40.41 acres of suitable habitat and 1,891.77 ft^2 of pine BA on 132.84 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

Under the SMS, the 2009 Southern Training Area Infrastructure – Maneuver Area (PN 69743) will remove 29.05 ft^2 of pine BA on 8.59 acres. The 2009 Southern Training Area Infrastructure – Upgrade Paved Roads and Tank Trails (PN 69743) will remove 132.04 ft^2 of pine BA on 9.30 acres (Table 3-5 and Figure 3-8). As a result of project impacts, 115.13 ft^2 of pine BA on 4.97 acres will be non-contiguous and cannot be counted towards the available foraging habitat for the partition (Table 3-2).

Under the RSG, the 2009 Southern Training Area Infrastructure – Maneuver Area (PN 69743) would remove 445.63 ft^2 of pine BA on 20.19 acres. The 2009 Southern Training Area Infrastructure – Upgrade Paved Roads and Tank Trails (PN 69743) would remove 312.24 ft^2 of pine BA on 14.11 acres (Table 3-3 and Figure 3-8). As a result of project impacts, 127.45 ft^2 of pine BA on 5.26 acres would be non-contiguous and cannot be counted towards the available foraging habitat for the partition (Table 3-3).

The post- project SMS foraging habitat totals were 1,517.30 ft^2 of pine BA on 45.68 acres of suitable habitat and 741.46 ft^2 of pine BA on 85.39 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-11). Loblolly pine that is at high risk of decline accounts for 48.82% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,274.13 ft^2 of pine BA on 38.61 acres of suitable habitat and 1,065.85 ft^2 of pine BA on 95.08 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition may meet RS in the future (Table 3-14).

This cluster was analyzed and "taken" by Transformation projects, but project impacts within this partition have been reanalyzed by MCOE Projects.

FB Cluster D11-01: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 8 cavity trees in various stages of completion and suitability (Appendix G). The construction of the Southern Training Area Infrastructure and Upgraded Tank Trails (PN 69743) will impact all 8 cavity trees within 51 to 200 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 3,502.41 ft^2 of pine BA on 94.01 acres of suitable habitat and 104.47 ft^2 of pine BA on 49.69 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 3,174.20 ft^2 of pine BA on 83.36 acres of suitable habitat and 432.68 ft^2 of pine BA on 60.34 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Southern Training Area Infrastructure – Maneuver Area (PN 69743) will remove 1,795.76 ft^2 of pine BA on 78.96 acres. The 2009 Southern Training Area Infrastructure – Upgrade Paved Roads and Tank Trails (PN 69743) will remove 152.47 ft^2 of pine BA on 5.53 acres (Table 3-5 and Figure 3-8).

The post- project SMS foraging habitat totals were 1,651.38 ft^2 of pine BA on 44.15 acres of suitable habitat and 7.27 ft^2 of pine BA on 15.06 acres of future potential habitat. There was no potentially suitable habitat (Table 3-2). This cluster will be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-11). Loblolly pine that is at high

risk of decline accounts for 29.06% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,441.21 ft^2 of pine BA on 37.37 acres of suitable habitat and 217.44 ft^2 of pine BA on 21.84 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

This cluster is currently monitored as a minimization effort for the DMPRC (FBCB, unpub. data). In addition, this cluster was analyzed and "taken" by Transformation projects, but project impacts within this partition have been reanalyzed by MCOE Projects.

FB Cluster D11-02: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 7 cavity trees in various stages of completion and suitability (Appendix G). The construction of the Southern Training Area Infrastructure (PN 69743) will remove all 7 cavity trees which will result in "take" of the cluster by loss of cavity trees (Tables 3-9 and 3-11).

The pre- project SMS foraging habitat totals were 3,871.19 ft^2 of pine BA on 104.88 acres of suitable habitat and 1,277.31 ft^2 of pine BA on 54.91 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 1,762.51 ft^2 of pine BA on 45.69 acres of suitable habitat and 3,385.99 ft^2 of pine BA on 114.10 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Southern Training Area Infrastructure – Maneuver Area (PN 69743) will remove 4,032.61 ft^2 of pine BA on 125.66 acres. The 2009 Southern Training Area Infrastructure – Upgrade Paved Roads and Tank Trails (PN 69743) will remove 429.55 ft^2 of pine BA on 13.79 acres (Table 3-5 and Figure 3-8). As a result of project impacts, 572.20 ft^2 of pine BA on 15.94 acres will be non-contiguous and cannot be counted towards the available foraging habitat for the partition (Table 3-2).

The post- project SMS foraging habitat totals were 5.77 ft^2 of pine BA on 0.15 acre of suitable habitat and 108.37 ft^2 of pine BA on 4.25 acres of future potential habitat (Table 3-2, 3-11and 3-8). There was no potentially suitable habitat. This cluster will also be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-11). Loblolly

pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 5.77 ft^2 of pine BA on 0.15 acre of suitable habitat and 108.37 ft^2 of pine BA on 4.25 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

This cluster is currently monitored as a minimization effort for the DMPRC (FBCB, unpub. data). In addition, this cluster was analyzed and "taken" by Transformation projects, but project impacts within this partition have been reanalyzed by MCOE Projects.

FB Cluster D12-01: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 9 cavity trees in various stages of completion and suitability (Appendix G). The construction of the Southern Training Area Infrastructure and Upgraded Tank Trails (PN 69743) will impact 1 cavity tree within 50 feet and 2 cavity trees within 51 to 200 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 4,975.59 ft^2 of pine BA on 106.88 acres of suitable habitat and 2,011.29 ft^2 of pine BA on 111.76 acres of future potential habitat. There was no potentially suitable habitat (Table 3-2).

The pre- project RS foraging habitat totals were 2,761.74 ft^2 of pine BA on 58.36 acres of suitable habitat and 4,225.14 ft^2 of pine BA on 160.28 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Southern Training Area Infrastructure – Maneuver Area (PN 69743) will remove 210.12 ft^2 of pine BA on 6.74 acres. The 2009 Southern Training Area Infrastructure – Upgrade Paved Roads and Tank Trails (PN 69743) will remove 602.09 ft^2 of pine BA on 20.19 acres (Table 3-5 and Figure 3-8).

The post- project SMS foraging habitat totals were 4,363.64 ft^2 of pine BA on 93.01 acres of suitable habitat and 1,811.00 ft^2 of pine BA on 98.70 acres of future potential habitat (Table 3-2, 3-11 and Figure 3-11). There was no potentially suitable habitat. This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-11). Loblolly pine that is at high risk of decline accounts for 3.13% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 2,535.49 ft^2 of pine BA on 53.88 acres of suitable habitat and 3,639.15 ft^2 of pine BA on 137.83 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition can meet the RS in the future (Table 3-15).

FB Cluster D16-01: This cluster had a PBG from 2004 to 2008 (Table 3-4) and had 7 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 1,494.10 ft^2 of pine BA on 38.63 acres of suitable habitat, 620.09 ft^2 of pine BA on 18.51 acres of potentially suitable habitat and 2,506.48 ft^2 of pine BA on 167.49 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 838.00 ft^2 of pine BA on 16.76 acres of suitable habitat and 3,782.67 ft^2 of pine BA on 207.87 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Southern Training Area Infrastructure - Maneuver Area (PN 69743) will remove 916.97 ft^2 of pine BA on 47.90 acres (Table 3-5 and Figure 3-8).

The post- project SMS foraging habitat totals were 1,494.10 ft^2 of pine BA on 38.63 acres of suitable habitat, 0.34 ft^2 of pine BA on 0.01 acre of potentially suitable habitat and 2,209.26 ft^2 of pine BA on 138.09 acres of future potential habitat (Table 3-2). This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-11). Loblolly pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 838.00 ft^2 of pine BA on 16.76 acres of suitable habitat and 2,865.70 ft^2 of pine BA on 159.97 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition can meet the RS in the future (Table 3-14).

This cluster is currently monitored as a minimization effort for the DMPRC (FBCB, unpub. data).

FB Cluster D16-02: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 7 cavity trees in various stages of completion and suitability (Appendix G). The construction of

the Southern Training Area Infrastructure (PN 69743) will impact 1 cavity tree within 51 to 200 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 575.61 ft^2 of pine BA on 16.55 acres of suitable habitat and 3,423.84 ft^2 of pine BA on 209.69 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 3,999.45 ft^2 of pine BA on 226.24 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2009 Southern Training Area Infrastructure – Maneuver Area (PN 69743) will remove 2,374.25 ft^2 of pine BA on 138.45 acres. The 2009 Southern Training Area Infrastructure – Upgrade Paved Roads and Tank Trails (PN 69743) will remove 773.78 ft^2 of pine BA on 36.92 acres. The 2009 Southern Training Area Infrastructure – Urban Training Site (PN 69743) will remove 4.92 ft^2 of pine BA on 0.24 acre (Table 3-5 and Figure 3-8). As a result of project impacts, 497.47 ft^2 of pine BA on 24.03 acres will be non-contiguous and cannot be counted towards the available foraging habitat for the partition (Table 3-2).

The post- project SMS foraging habitat totals were 349.03 ft^2 of pine BA on 26.60 acres of future potential habitat (Table 3-2). There was no suitable or potentially suitable habitat. This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-11). Loblolly pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 349.03 ft^2 of pine BA on 26.60 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

This cluster was analyzed and "taken" by Transformation projects, but project impacts within this partition have been reanalyzed by MCOE Projects.

FB Cluster D17-01: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 10 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be taken or impacted by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 4,844.96 ft^2 of pine BA on 134.03 acres of suitable habitat, 320.86 ft^2 of pine BA on 10.52 acres of potentially suitable habitat and 1,655.40 ft^2 of pine BA on 160.44 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 1,500.32 ft^2 of pine BA on 34.49 acres of suitable habitat and 5,320.90 ft^2 of pine BA on 270.50 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Southern Training Area Infrastructure Urban Training Site (PN 69743) will remove 161.16 ft^2 of pine BA on 6.74 acres. The 2009 Southern Training Area Infrastructure – Maneuver Area (PN 69743) will remove 2,196.00 ft^2 of pine BA on 71.34 acres. The 2009 Southern Training Area Infrastructure – Upgrade Paved Roads and Tank Trails (PN 69743) will remove 522.61 ft^2 of pine BA on 16.19 acres (Table 3-5 and Figure 3-8). As a result of project impacts, 578.42 ft^2 of pine BA on 24.28 acres will be non-contiguous and cannot be counted towards the available foraging habitat for the partition (Table 3-2).

The post- project SMS foraging habitat totals were 2,580.79 ft^2 of pine BA on 74.30 acres of suitable habitat, 320.86 ft^2 of pine BA on 10.52 acres of potentially suitable habitat and 461.37 ft^2 of pine BA on 101.62 acres of future potential habitat (Table 3-2). This cluster <u>will</u> be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-11). Loblolly pine that is at high risk of decline accounts for 83.98% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 609.00 ft^2 of pine BA on 14.00 acres of suitable habitat and 2,754.02 ft^2 of pine BA on 172.44 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition can meet the RS in the future (Table 3-14).

<u>FB Cluster D17-03</u>: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 6 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 4,242.34 ft^2 of pine BA on 114.09 acres of suitable habitat and 1,782.06 ft^2 of pine BA on 89.62 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 598.00 ft^2 of pine BA on 13.00 acres of suitable habitat and 5,426.40 ft^2 of pine BA on 190.71 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Southern Training Area Infrastructure – Maneuver Area (PN 69743) will remove 2,959.41 ft^2 of pine BA on 99.69 acres. The 2009 Southern Training Area Infrastructure – Upgrade Paved Roads and Tank Trails (PN 69743) will remove 409.51 ft^2 of pine BA on 15.02 acres (Table 3-5 and Figure 3-8).

The post- project SMS foraging habitat totals were 1,920.96 ft^2 of pine BA on 51.79 acres of suitable habitat and 734.52 ft^2 of pine BA on 37.21 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-11). Loblolly pine that is at high risk of decline accounts for 27.71% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 8.74 ft^2 of pine BA on 0.19 acre of suitable habitat and 2,646.74 ft^2 of pine BA on 88.81 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

FB Cluster D17-04R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 11 cavity trees in various stages of completion and suitability (Appendix G). The construction of the Southern Training Area Infrastructure (PN 69743) will impact 4 cavity trees within 51 to 200 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 3,545.37 ft^2 of pine BA on 90.79 acres of suitable habitat and 1,865.55 ft^2 of pine BA on 101.80 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 1,485.25 ft^2 of pine BA on 34.55 acres of suitable habitat and 3,925.67 ft^2 of pine BA on 158.04 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Southern Training Area Infrastructure – Maneuver Area (PN 69743) will remove 2,347.45 ft^2 of pine BA on 79.71 acres. The 2009 Southern Training Area Infrastructure

– Upgrade Paved Roads and Tank Trails (PN 69743) will remove 557.94 ft^2 of pine BA on 17.97 acres (Table 3-5 and Figure 3-8).

The post- project SMS foraging habitat totals were 1,927.51 ft^2 of pine BA on 47.56 acres of suitable habitat and 578.02 ft^2 of pine BA on 47.35 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-11). Loblolly pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,060.93 ft^2 of pine BA on 24.93 acres of suitable habitat and 1,444.60 ft^2 of pine BA on 69.98 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

FB Cluster E02-01: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 7 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 2,821.35 ft^2 of pine BA on 89.39 acres of suitable habitat, 576.34 ft^2 of pine BA on 19.08 acres of potentially suitable habitat and 395.65 ft^2 of pine BA on 73.24 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 44.62 ft^2 of pine BA on 0.92 acre of suitable habitat and 3,748.72 ft^2 of pine BA on 180.78 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 71.41 ft^2 of pine BA on 2.93 acres (Table 3-6 and Figure 3-8).

The post- project SMS foraging habitat totals were 2,781.98 ft^2 of pine BA on 88.12 acres of suitable habitat, 554.11 ft^2 of pine BA on 18.38 acres of potentially suitable habitat and 385.84 ft^2 of pine BA on 72.27 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-11). Loblolly pine that is at high risk of decline accounts for 6.54% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 44.62 ft^2 of pine BA on 0.92 acre of suitable habitat and 3,677.31 ft^2 of pine BA on 177.85 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition can meet the RS in the future (Table 3-15).

This cluster is currently monitored as a minimization effort for the DMPRC (FBCB, unpub. data).

FB Cluster E04-01: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 8 cavity trees in various stages of completion and suitability (Appendix G). Upgraded tank trails within the Southern Training Area Infrastructure (PN 69743) will impact 3 cavity trees within 51 to 200 feet, 2 within 50 feet and remove 3 inactive cavity trees. The Southern Training Area Infrastructure – Maneuver Area (PN 69743) will impact 1 cavity tree within 51 to 200 feet and 2 cavity trees within 50 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 4,509.48 ft^2 of pine BA on 115.00 acres of suitable habitat and 1,259.72 ft^2 of pine BA on 52.36 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 406.95 ft^2 of pine BA on 9.65 acres of suitable habitat, 575.70 ft^2 of pine BA on 6.06 acres of potentially suitable habitat and 4,786.55 ft^2 of pine BA on 151.65 acres of future potential habitat (Table 3-3).

The 2009 Southern Training Area Infrastructure – Maneuver Area (PN 69743) will remove 1,577.90 ft^2 of pine BA on 44.07 acres. The 2009 Southern Training Area Infrastructure – Upgrade Paved Roads and Tank Trails (PN 69743) will remove 725.67 ft^2 of pine BA on 15.73 acres (Table 3-5 and Figure 3-8).

The post- project SMS foraging habitat totals were 2,555.76 ft^2 of pine BA on 65.73 acres of suitable habitat and 909.87 ft^2 of pine BA on 41.83 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-11). Loblolly pine that is at high risk of decline accounts for 24.13% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 245.25 ft^2 of pine BA on 5.45 acres of suitable habitat, 282.15 ft^2 of pine BA on 2.97 acres of potentially suitable habitat and 2,867.01

ft^2 of pine BA on 99.14 acres of future potential habitat (Table 3-3). This partition cannot meet the RS in the future (Table 3-14).

This cluster is currently monitored as a minimization effort for the DMPRC (FBCB, unpub. data).

FB Cluster F02-01R: This cluster was inactive in 2004, had a solitary male in 2005 and a PBG from 2006 to 2008 (Table 3-4). It had 5 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 2,336.44 ft^2 of pine BA on 53.68 acres of suitable habitat and 2,646.83 ft^2 of pine BA on 136.76 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 2,130.20 ft^2 of pine BA on 48.58 acres of suitable habitat and 2,853.07 ft^2 of pine BA on 141.86 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Southern Training Area Infrastructure – Maneuver Area (PN 69743) will remove 2,784.30 ft^2 of pine BA on 103.00 acres. The 2009 Southern Training Area Infrastructure – Upgrade Paved Roads and Tank Trails (PN 69743) will remove 460.56 ft^2 of pine BA on 15.78 acres (Table 3-5 and Figure 3-8). The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 369.57 ft^2 of pine BA on 10.90 acres (Table 3-6 and Figure 3-8).

The post- project SMS foraging habitat totals were 528.06 ft^2 of pine BA on 11.82 acres of suitable habitat and 840.78 ft^2 of pine BA on 48.94 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster <u>will</u> be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-11). Loblolly pine that is at high risk of decline accounts for 7.36% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 528.06 ft^2 of pine BA on 11.82 acres of suitable habitat and 840.78 ft^2 of pine BA on 48.94 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

This cluster was analyzed and "taken" by Transformation projects, but project impacts within this partition have been reanalyzed by MCOE Projects.

FB Cluster HCC-08R: This cluster was inactive in 2004, had a solitary male from 2005 to 2007 and had a PBG in 2008 (Table 3-4). It contained 6 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 1,556.16 ft^2 of pine BA on 46.77 acres of suitable habitat, 1,573.41 ft^2 of pine BA on 50.04 acres of potentially suitable habitat and 2,398.11 ft^2 of pine BA on 92.09 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 117.82 ft^2 of pine BA on 2.74 acres of suitable habitat and 5,409.86 ft^2 of pine BA on 186.16 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Infrastructure Support Project (PN 67457) will remove 26.23 ft^2 of pine BA on 0.61 acre (Table 3-5 and Figure 3-3).

The post- project SMS foraging habitat totals were 1,529.93 ft^2 of pine BA on 46.16 acres of suitable habitat, 1,573.41 ft^2 of pine BA on 50.04 acres of potentially suitable habitat and 2,398.11 ft^2 of pine BA on 92.09 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 21.90% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 91.59 ft^2 of pine BA on 2.13 acres of suitable habitat and 5,409.86 ft^2 of pine BA on 186.16 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition can meet the RS in the future (Table 3-15).

FB Cluster HCC-10R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 10 cavity trees in various stages of completion and suitability (Appendix G). Construction of the Good Hope Range Access Road (PN 69358) will impact 2 cavity trees within 50 feet, 5 trees within 51 to 200 feet and will remove 1 active cavity tree and 1 active start (Table 3-9). These impacts and removals will likely result in "take" of the cluster by harassment (Table 3-11).

The pre- project SMS foraging habitat totals were 4,302.80 ft^2 of pine BA on 122.28 acres of suitable habitat, 457.11 ft^2 of pine BA on 11.74 acres of potentially suitable habitat and 204.00 ft^2 of pine BA on 11.07 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 347.01 ft^2 of pine BA on 8.07 acres of potentially suitable habitat and 4,616.90 ft^2 of pine BA on 137.02 acres of future potential habitat (Table 3-3). There was no suitable habitat.

The 2009 Good Hope MTA Range Access Road (PN 69358) will remove 493.44 ft^2 of pine BA on 13.64 acres (Table 3-5 and Figure 3-3). The 2009 Infrastructure Support Project (PN 67457) will remove 87.90 ft^2 of pine BA on 2.78 acres (Table 3-5 and Figure 3-3). The 2010 Existing Training Area Road Repairs Project (PN 65557) will remove 55.29 ft^2 of pine BA on 1.59 acre (Table 3-6 and Figure 3-3). The 2012 Harmony Church Recreation Center (PN 65246) will remove 33.60 ft^2 of pine BA on 1.12 acre (Table 3-8 and Figure 3-3). As a result of project impacts, 75.09 ft^2 of pine BA on 2.03 acres will be non-contiguous and cannot be counted towards the available foraging habitat for the partition.

The post- project SMS foraging habitat totals were 3,619.92 ft^2 of pine BA on 103.11 acres of suitable habitat, 398.57 ft^2 of pine BA on 10.04 acres of potentially suitable habitat and 200.10 ft^2 of pine BA on 10.78 acres of future potential habitat (Table 3-2). This cluster will <u>not</u> be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 24.06% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 322.07 ft^2 of pine BA on 7.49 acres of potentially suitable habitat and 3,896.52 ft^2 of pine BA on 116.44 acres of future potential habitat (Table 3-3). There was no suitable habitat. This partition may meet the RS in the future (Table 3-15).

<u>FB Cluster HCC-11R</u>: This cluster was captured by A07-01 in 2004 and had a PBG from 2005 to 2008 (Table 3-4). It had 8 cavity trees in various stages of completion and suitability (Appendix G). The Repair of Existing Training Roads (Phase I) (PN 65557) will have impacts within 51 to 200 feet of 1 cavity tree (Table 3-9).

The pre- project SMS foraging habitat totals were 385.31 ft^2 of pine BA on 11.73 acres of suitable habitat, 56.00 ft^2 of pine BA on 1.05 acre of potentially suitable habitat and 4,659.29 ft^2 of pine BA on 196.06 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 68.73 ft^2 of pine BA on 1.74 acres of potentially suitable habitat and 5,031.87 ft^2 of pine BA on 207.10 acres of future potential habitat (Table 3-3). There was no suitable habitat.

The 2010 Existing Training Area Road Repairs Project (PN 65557) will remove 370.62 ft^2 of pine BA on 14.09 acres (Table 3-6 and Figure 3-8). As a result of project impacts, 47.11 ft^2 of pine BA on 1.23 acre will be non-contiguous and cannot be counted towards the available foraging habitat for the partition.

The post- project SMS foraging habitat totals were 301.46 ft^2 of pine BA on 9.57 acres of suitable habitat, 56.00 ft^2 of pine BA on 1.05 acre of potentially suitable habitat, and 4,325.41 ft^2 of pine BA on 182.90 acres of future potential habitat (Table 3-2). This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 9.60% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 4,682.87 ft^2 of pine BA on 193.52 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition can meet the RS in the future (Table 3-14).

This cluster was analyzed and "taken" by Transformation projects, but project impacts within this partition have been reanalyzed by MCOE Projects.

FB Cluster J01-02R: This cluster had a solitary male in 2004 and a PBG from 2005 to 2008 (Table 3-4). There were 6 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 2,215.31 ft^2 of pine BA on 50.92 acres of suitable habitat and 1,213.96 ft^2 of pine BA on 147.86 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 470.25 ft^2 of pine BA on 10.45 acres of suitable habitat, 289.60 ft^2 of pine BA on 3.62 acres of potentially suitable habitat and 2,669.42 ft^2 of pine BA on 184.71 acres of future potential habitat (Table 3-3).

The 2009 Construction of Paved Training Area Roads Project (PN 65554) will remove 229.97 ft^2 of pine BA on 6.36 acres (Table 3-5 and Figure 3-3).

The post- project SMS foraging habitat totals were 1,985.34 ft^2 of pine BA on 48.04 acres of suitable habitat and 1,213.96 ft^2 of pine BA on 144.38 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 0.71% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 470.25 ft^2 of pine BA on 10.45 acres of suitable habitat, 289.23 ft^2 of pine BA on 3.61 acres of potentially suitable habitat and 2,439.82 ft^2 of pine BA on 178.36 acres of future potential habitat (Table 3-3). This partition can meet the RS in the future (Table 3-14).

FB Cluster J02-02R: This cluster had a PBG from 2004 to 2008 (Table 3-4). It had 9 cavity trees in various stages of completion and suitability (Appendix G). The Construction of Paved Training Area Roads (PN 65554) will impact 3 cavity trees within 50 feet and remove 5 cavity trees, which will result in "take" of the cluster from loss of cavity trees (Tables 3-9 and 3-11).

The pre- project SMS foraging habitat totals were 459.43 ft^2 of pine BA on 10.81 acres of suitable habitat, 271.13 ft^2 of pine BA on 7.23 acres of potentially suitable habitat and 2,792.57 ft^2 of pine BA on 122.52 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 459.43 ft^2 of pine BA on 10.81 acres of suitable habitat and 3,063.70 ft^2 of pine BA on 129.75 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Construct Paved Training Area Roads Project (PN 65554) will remove 500.35 ft^2 of pine BA on 16.37 acres (Table 3-5 and Figure 3-3).

The post- project SMS foraging habitat totals were 260.10 ft^2 of pine BA on 6.12 acres of suitable habitat, 271.13 ft^2 of pine BA on 7.23 acres of potentially suitable habitat and 2,491.55 ft^2 of pine BA on 110.84 acres of future potential habitat (Table 3-2). This cluster will also be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 260.10 ft^2 of pine BA on 6.12 acres of suitable habitat and 2,762.68 ft^2 of pine BA on 118.07 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

FB Cluster J06-03: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 10 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 7,751.93 ft^2 of pine BA on 215.01 acres of suitable habitat, 4.04 ft^2 of pine BA on 0.13 acre of potentially suitable habitat and 2,012.96 ft^2 of pine BA on 73.30 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 53.63 ft^2 of pine BA on 1.43 acre of suitable habitat and 9,715.30 ft^2 of pine BA on 287.01 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Construction of Paved Training Area Roads Project (PN 65554) will remove 400.97 ft^2 of pine BA on 10.18 acres. The 2009 Southern Training Area Infrastructure – Maneuver Area (PN 69743) will remove 786.58 ft^2 of pine BA on 21.68 acres. The 2009 Southern Training Area Infrastructure – Upgrade Paved Roads and Tank Trails (PN 69743) will remove 441.25 ft^2 of pine BA on 12.43 acres (Table 3-5 and Figure 3-8).

The post- project SMS foraging habitat totals were 6,338.48 ft^2 of pine BA on 178.02 acres of suitable habitat, 4.04 ft^2 of pine BA on 0.13 acre of potentially suitable habitat and 1,797.61 ft^2 of pine BA on 66.00 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-11). Loblolly pine that is at high risk of decline accounts for 2.44% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 36.38 ft^2 of pine BA on 0.97 acres of suitable habitat and 8,103.75 ft^2 of pine BA on 243.18 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition can meet the RS in the future (Table 3-15).

FB Cluster K02-01: This cluster had a PBG from 2004 to 2008 (Table 3-4) and had 6 cavity trees in various stages of completion and suitability (Appendix G). The Stationary Tank Range (ST2) (65383) will remove all 6 cavity trees, resulting in "take" of the cluster from loss of cavity trees (Tables 3-9 and 3-11).

The pre- project SMS foraging habitat totals were 330.41 ft^2 of pine BA on 10.65 acres of potentially suitable habitat and 5,602.37 ft^2 of pine BA on 245.71 acres of future potential habitat (Table 3-2). There was no suitable habitat.

The pre- project RS foraging habitat totals were 5,932.78 ft^2 of pine BA on 256.36 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2009 ST2 (PN 65383) will remove 2,894.42 ft^2 of pine BA on 123.79 acres. The ST2 construction limits will remove 899.31 ft^2 of pine BA on 39.60 acres (Table 3-5 and Figure 3-4). The 2011 ST2 beaten area will remove 139.91 ft^2 of pine BA on 7.74 acres (Table 3-7 and Figure 3-4). As a result of project impacts, 356.70 ft^2 of pine BA on 12.69 acres will be non-contiguous and cannot be counted towards the available foraging habitat for the partition (Table 3-2)

The post- project SMS foraging habitat totals were 1.26 ft^2 of pine BA on 0.04 acre of potentially suitable habitat and 1,641.18 ft^2 of pine BA on 72.50 acres of future potential habitat (Table 3-2). There was no suitable habitat. This cluster <u>will</u> also be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 100.00% of the SMS post-project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,642.44 ft^2 of pine BA on 72.54 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

This cluster was analyzed and "taken" by Transformation projects, but project impacts within this partition have been reanalyzed by MCOE Projects.

FB Cluster K08-03: This cluster had a PBG from 2004 to 2008 (Table 3-4). It had 5 cavity trees in various stages of completion and suitability (Appendix G). The Construction of Paved Training Area Roads (PN 65554) will impact 1 cavity tree within 51 to 200 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 3,561.55 ft^2 of pine BA on 97.98 acres of suitable habitat and 0.00 ft^2 of pine BA on 28.93 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 1,603.10 ft^2 of pine BA on 37.72 acres of suitable habitat and 1,958.45 ft^2 of pine BA on 89.19 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Construct Paved Training Area Roads Project (PN 65554) will remove 434.05 ft^2 of pine BA on 12.50 acres (Table 3-5 and Figure 3-7).

The post- project SMS foraging habitat totals were 3,127.50 ft^2 of pine BA on 85.48 acres of suitable habitat and 0.00 ft^2 of pine BA on 28.93 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 30.83% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,484.95 ft^2 of pine BA on 34.94 acres of suitable habitat and 1,642.55 ft^2 of pine BA on 79.47 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-15).

FB Cluster K08-04: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 6 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 6,661.97 ft^2 of pine BA on 180.60 acres of suitable habitat and 129.66 ft^2 of pine BA on 11.79 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 983.45 ft^2 of pine BA on 23.14 acres of suitable habitat, 207.48 ft^2 of pine BA on 5.46 acres of potentially suitable habitat and 5,600.70 ft^2 of pine BA on 163.79 acres of future potential habitat (Table 3-3).

The 2009 Construct Paved Training Area Roads Project (PN 65554) will remove 565.75 ft^2 of pine BA on 15.14 acres (Table 3-5 and Figure 3-7). As a result of project impacts,

1,086.30 ft^2 of pine BA on 37.59 acres will be non-contiguous and cannot be counted towards the available foraging habitat for the partition (Table 3-2).

The post- project SMS foraging habitat totals were 5,139.58 ft^2 of pine BA on 136.31 acres of suitable habitat and 0.00 ft^2 of pine BA on 3.35 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 25.30% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 878.05 ft^2 of pine BA on 20.66 acres of suitable habitat, 112.10 ft^2 of pine BA on 2.95 acres of potentially suitable habitat and 4,149.43 ft^2 of pine BA on 116.05 acres of future potential habitat (Table 3-3). This partition may meet the RS in the future (Table 3-15).

FB Cluster K09-01: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 6 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 3,810.40 ft^2 of pine BA on 89.84 acres of suitable habitat, 22.00 ft^2 of pine BA on 0.44 acre of potentially suitable habitat and 1,672.01 ft^2 of pine BA on 59.02 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 2,240.38 ft^2 of pine BA on 49.40 acres of suitable habitat, 1,034.70 ft^2 of pine BA on 27.09 acres of potentially suitable habitat and 2,229.33 ft^2 of pine BA on 72.81 acres of future potential habitat (Table 3-3).

The 2009 Construct Paved Training Area Roads Project (PN 65554) will remove 110.59 ft^2 of pine BA on 3.43 acres (Table 3-5 and Figure 3-7).

The post- project SMS foraging habitat totals were 3,765.60 ft^2 of pine BA on 88.64 acres of suitable habitat, 22.00 ft^2 of pine BA on 0.44 acre of potentially suitable habitat and 1,606.22 ft^2 of pine BA on 56.79 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 0.18% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 2,240.38 ft^2 of pine BA on 49.40 acres of suitable habitat, 994.80 ft^2 of pine BA on 26.04 acres of potentially suitable habitat and 2,158.64 ft^2 of pine BA on 70.43 acres of future potential habitat (Table 3-3). This partition may meet the RS in the future (Table 3-15).

FB Cluster K09-02R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and had 6 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 4,621.83 ft^2 of pine BA on 124.95 acres of suitable habitat, 102.00 ft^2 of pine BA on 2.04 acres of potentially suitable habitat and 478.76 ft^2 of pine BA on 26.19 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 97.71 ft^2 of pine BA on 2.44 acres of suitable habitat, 102.00 ft^2 of pine BA on 2.04 acres of potentially suitable habitat and 5,002.88 ft^2 of pine BA on 148.70 acres of future potential habitat (Table 3-3).

The 2009 Multi-purpose Training Range (MPTR) (PN 64551) will remove 834.77 ft^2 of pine BA on 30.87 acres. The MPTR construction limits will remove 300.86 ft^2 of pine BA on 10.99 acres (Table 3-5 and Figure 3-7). The 2011 MPTR beaten area will remove 41.37 ft^2 of pine BA on 2.51 acres (Table 3-7 and Figure 3-7)

The post- project SMS foraging habitat totals were 3,878.45 ft^2 of pine BA on 105.05 acres of suitable habitat, 102.00 ft^2 of pine BA on 2.04 acres of potentially suitable habitat and 45.14 ft^2 of pine BA on 1.72 acre of future potential habitat (Table 3-2). This cluster will <u>not</u> be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 0.01% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 0.91 ft^2 of pine BA on 0.02 acre of suitable habitat, 102.00 ft^2 of pine BA on 2.04 acres of potentially suitable habitat and 3,922.68 ft^2 of pine BA on 106.75 acres of future potential habitat (Table 3-3). This partition cannot meet RS in the future (Table 3-15).

FB Cluster K09-03R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 7 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 5,160.01 ft^2 of pine BA on 144.42 acres of suitable habitat, 2,216.00 ft^2 of pine BA on 44.32 acres of potentially suitable habitat and 644.11 ft^2 of pine BA on 58.23 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 2,216.00 ft^2 of pine BA on 44.32 acres of potentially suitable habitat and 5,804.12 ft^2 of pine BA on 202.65 acres of future potential habitat (Table 3-3). There was no suitable habitat.

The 2009 MPTR (PN 64551) will remove 50.63 ft^2 of pine BA on 1.47 acre. The 2009 Construct Paved Training Area Roads Project (PN 65554) will remove 403.26 ft^2 of pine BA on 15.75 acres (Table 3-5 and Figure 3-7).

The post- project SMS foraging habitat totals were 4,844.88 ft^2 of pine BA on 135.19 acres of suitable habitat, 2,185.50 ft^2 of pine BA on 43.71 acres of potentially suitable habitat and 535.83 ft^2 of pine BA on 50.85 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 26.37% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 2,185.50 ft^2 of pine BA on 43.71 acres of potentially suitable habitat and 5,380.71 ft^2 of pine BA on 186.04 acres of future potential habitat (Table 3-3). There was no suitable habitat. This partition can meet the RS in the future (Table 3-15).

FB Cluster K11-02: This cluster had a PBG from 2004 to 2008 (Table 3-4) and had 13 cavity trees in various stages of completion and suitability (Appendix G). The Construction of Paved Training Area Roads (PN 65554) will impact 5 cavity trees within 51 to 200 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 8,250.23 ft^2 of pine BA on 219.20 acres of suitable habitat, 174.08 ft^2 of pine BA on 5.12 acres of potentially suitable habitat and 386.90 ft^2 of pine BA on 58.35 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 2,854.25 ft^2 of pine BA on 68.15 acres of suitable habitat and 5,956.96 ft^2 of pine BA on 214.52 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 MPTR (PN 64551) construction limits will remove 2,042.28 ft^2 of pine BA on 53.90 acres. The access road for the MPTR will remove 62.37 ft^2 of pine BA on 1.54 acre. The 2009 Construct Paved Training Area Roads Project (PN 65554) will remove 500.73 ft^2 of pine BA on 18.22 acres (Table 3-5 and Figure 3-7).

The post- project SMS foraging habitat totals were 5,902.93 ft^2 of pine BA on 159.86 acres of suitable habitat, 174.08 ft^2 of pine BA on 5.12 acres of potentially suitable habitat and 128.82 ft^2 of pine BA on 44.03 acres of future potential habitat (Table 3-2). This cluster will <u>not</u> be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 13.66% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,200.82 ft^2 of pine BA on 27.65 acres of suitable habitat and 5,005.01 ft^2 of pine BA on 181.36 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition can meet the RS in the future (Table 3-15).

This partition <u>will</u> be taken at the group level due to the decrease in cluster density within 1.25 miles of its cluster center (Tables 3-11, 3-16 and Figure 3-12).

This cluster was analyzed and "taken" by Transformation projects, but project impacts within this partition have been reanalyzed by MCOE Projects.

<u>FB Cluster K11-04R</u>: This cluster was inactive from 2004 to 2006 but had a PBG in 2007 and 2008 (Table 3-4). It contained 4 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 1,730.88 ft^2 of pine BA on 46.50 acres of suitable habitat and 1,966.25 ft^2 of pine BA on 129.93 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat

The pre- project RS foraging habitat totals were 716.26 ft^2 of pine BA on 16.98 acres of suitable habitat and 2,980.87 ft^2 of pine BA on 159.45 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 MPTR (PN 64551) construction limits will remove 1,048.55 ft^2 of pine BA on 56.28 acres. The access road for the MPTR will remove 135.33 ft^2 of pine BA on 4.26 acres. The 2009 Construct Paved Training Area Roads Project (PN 65554) will remove 349.11 ft^2 of pine BA on 19.23 acres (Table 3-5 and Figure 3-7).

The post- project SMS foraging habitat totals were 1,349.14 ft^2 of pine BA on 37.21 acres of suitable habitat and 815.00 ft^2 of pine BA on 59.45 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 7.12% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 334.52 ft^2 of pine BA on 7.69 acres of suitable habitat and 1,829.62 ft^2 of pine BA on 88.97 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

FB Cluster K12-01: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 7 cavity trees in various stages of completion and suitability (Appendix G). Construction of the MPTR (PN 64551) beaten area will impact 1 cavity tree within 51 to 200 feet and remove 6 cavity trees (Table 3-9). These removals would result in "take" of the cluster by loss of cavity trees (Tables 3-9 and 3-11).

The pre- project SMS foraging habitat totals were 5,735.15 ft^2 of pine BA on 137.11 acres of suitable habitat and 397.22 ft^2 of pine BA on 65.27 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 3,577.17 ft^2 of pine BA on 83.19 acres of suitable habitat and 2,555.20 ft^2 of pine BA on 119.19 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2011 MPTR (PN 64551) beaten area will remove 1,962.37 ft^2 of pine BA on 45.82 acres (Table 3-5 and Figure 3-7).

The post- project SMS foraging habitat totals were 3,772.78 ft^2 of pine BA on 91.29 acres of suitable habitat and 397.22 ft^2 of pine BA on 65.27 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will not be taken at the cluster level

due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 9.46% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,689.47 ft^2 of pine BA on 39.29 acres of suitable habitat and 2,480.53 ft^2 of pine BA on 117.27 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition can meet the RS in the future (Table 3-15).

This cluster was analyzed and "taken" by Transformation projects, but project impacts within this partition have been reanalyzed by MCOE Projects.

FB Cluster K13-02: This cluster had a PBG from 2004 to 2008 (Table 3-4) and had 8 cavity trees in various stages of completion and suitability (Appendix G). Construction of the MPTR (PN 64551) beaten area will impact 1 cavity tree within 51 to 200 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 4,397.26 ft^2 of pine BA on 92.47 acres of suitable habitat, 300.40 ft^2 of pine BA on 7.51 acres of potentially suitable habitat and 1,421.84 ft^2 of pine BA on 52.66 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 2,536.62 ft^2 of pine BA on 45.08 acres of suitable habitat and 3,582.88 ft^2 of pine BA on 107.56 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2011 MPTR (PN 64551) beaten area will remove 2,916.70 ft^2 of pine BA on 77.31 acres (Table 3-5 and Figure 3-7).

The post- project SMS foraging habitat totals were 1,970.84 ft^2 of pine BA on 34.09 acres of suitable habitat, 300.40 ft^2 of pine BA on 7.51 acres of potentially suitable habitat and 931.56 ft^2 of pine BA on 33.73 acres of future potential habitat (Table 3-2). This cluster will be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 20.77% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,970.84 ft^2 of pine BA on 34.09 acres of suitable habitat and 1,231.97 ft^2 of pine BA on 41.24 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

FB Cluster K13-04: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 10 cavity trees in various stages of completion and suitability (Appendix G). Construction of the MPTR (PN 64551) beaten area will remove all 10 cavity trees, resulting in "take" of the cluster by loss of cavity trees (Tables 3-9 and 3-11).

The pre- project SMS foraging habitat totals were 1,779.47 ft^2 of pine BA on 54.07 acres of suitable habitat, 1,885.00 ft^2 of pine BA on 40.74 acres of potentially suitable habitat and 720.16 ft^2 of pine BA on 84.04 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 32.90 ft^2 of pine BA on 0.70 acre of potentially suitable habitat and 4,351.73 ft^2 of pine BA on 178.15 acres of future potential habitat (Table 3-3). There was no suitable habitat.

The MPTR 2011 (PN 64551) beaten area will remove 2,340.61 ft^2 of pine BA on 93.77 acres (Table 3-5 and Figure 3-7).

The post- project SMS foraging habitat totals were 571.81 ft^2 of pine BA on 17.07 acres of suitable habitat, 752.05 ft^2 of pine BA on 15.84 acres of potentially suitable habitat and 720.16 ft^2 of pine BA on 52.17 acres of future potential habitat (Table 3-2). This cluster will also be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 46.98% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 32.90 ft^2 of pine BA on 0.70 acre of potentially suitable habitat and 2,011.12 ft^2 of pine BA on 84.38 acres of future potential habitat (Table 3-3). There was no suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

This cluster is currently monitored as a minimization effort for the DMPRC (FBCB, unpub. data).

FB Cluster K13-05R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and had 8 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 2,538.46 ft^2 of pine BA on 55.07 acres of suitable habitat and 1,062.07 ft^2 of pine BA on 54.29 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 1,033.22 ft^2 of pine BA on 19.60 acres of suitable habitat, 996.15 ft^2 of pine BA on 22.90 acres of potentially suitable habitat and 1,571.16 ft^2 of pine BA on 66.86 acres of future potential habitat (Table 3-3).

The 2011 MPTR (PN 64551) beaten area will remove 545.81 ft^2 of pine BA on 17.28 acres (Table 3-5 and Figure 3-7).

The post- project SMS foraging habitat totals were 2,018.65 ft^2 of pine BA on 42.30 acres of suitable habitat and 1,036.07 ft^2 of pine BA on 49.78 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 3.07% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,020.47 ft^2 of pine BA on 19.35 acres of suitable habitat, 996.15 ft^2 of pine BA on 22.90 acres of potentially suitable habitat and 1,038.11 ft^2 of pine BA on 49.83 acres of future potential habitat (Table 3-3). This partition cannot meet the RS in the future (Table 3-14).

FB Cluster K13-06: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 5 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 1,171.79 ft^2 of pine BA on 33.75 acres of suitable habitat, 5,483.35 ft^2 of pine BA on 129.48 acres of potentially suitable habitat and 0.00 ft^2 of pine BA on 46.70 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 3,564.95 ft^2 of pine BA on 75.85 acres of potentially suitable habitat and 3,090.19 ft^2 of pine BA on 134.08 acres of future potential habitat (Table 3-3). There was no suitable habitat.

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 22.40 ft^2 of pine BA on 5.28 acres (Table 3-6 and Figure 3-7).

The post- project SMS foraging habitat totals were 1,171.79 ft^2 of pine BA on 33.75 acres of suitable habitat, 5,460.95 ft^2 of pine BA on 128.85 acres of potentially suitable habitat and 0.00 ft^2 of pine BA on 42.05 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 35.18% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 3,564.95 ft^2 of pine BA on 75.85 acres of potentially suitable habitat and 3,067.79 ft^2 of pine BA on 128.80 acres of future potential habitat (Table 3-3). There was no suitable habitat. This partition can meet the RS in the future (Table 3-15).

This partition will be taken at the group level due to the decrease in cluster density within 1.25 miles of its cluster center (Tables 3-11, 3-16 and Figure 3-12).

FB Cluster K21-02R: This cluster was inactive in 2005, but had a PBG in 2004, 2006, 2007 and 2008 (Table 3-4). It contained 6 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 7,509.92 ft^2 of pine BA on 175.02 acres of suitable habitat and 780.02 ft^2 of pine BA on 33.15 of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 2,639.38 ft^2 of pine BA on 51.25 acres of suitable habitat and 5,650.56 ft^2 of pine BA on 156.92 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Southern Training Area Infrastructure – Maneuver Area (PN 69743) will remove 1,394.69 ft^2 of pine BA on 36.85 acres (Table 3-5 and Figure 3-8).

The post- project SMS foraging habitat totals were 6,224.88 ft^2 of pine BA on 142.83 acres of suitable habitat and 670.37 ft^2 of pine BA on 28.49 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-11). Loblolly pine that is at high risk of decline accounts for 0.27% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 2,639.38 ft^2 of pine BA on 51.25 acres of suitable habitat and 4,255.87 ft^2 of pine BA on 120.07 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition can meet the RS in the future (Table 3-15).

FB Cluster K21-05R: This cluster had a PBG in 2007 and 2008 (Table 3-4) and had 4 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 10,454.52 ft^2 of pine BA on 245.38 acres of suitable habitat and 321.50 ft^2 of pine BA on 27.39 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 5,102.19 ft^2 of pine BA on 111.35 acres of suitable habitat, 112.53 ft^2 of pine BA on 2.42 acres of potentially suitable habitat and 5,561.30 ft^2 of pine BA on 159.00 acres of future potential habitat (Table 3-3).

The 2009 Southern Training Infrastructure – Maneuver Area (PN 69743) will remove 2,375.07 ft^2 of pine BA on 59.24 acres (Table 3-5 and Figure 3-8). The 2010 Repair Existing Training Area Roads Project (PN 65557) project will remove 396.03 ft^2 of pine BA on 9.57 acres (Table 3-6 and Figure 3-8)

The post- project SMS foraging habitat totals were 7,683.99 ft^2 of pine BA on 176.60 acres of suitable habitat and 320.93 ft^2 of pine BA on 27.36 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-11). Loblolly pine that is at high risk of decline accounts for 0.71% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 4,853.46 ft^2 of pine BA on 105.51 acres of suitable habitat, 112.53 ft^2 of pine BA on 2.42 acres of potentially suitable habitat and 3,038.93 ft^2 of pine BA on 96.03 acres of future potential habitat (Table 3-3). This partition can meet the RS in the future (Table 3-15).

This cluster is a SRC and is therefore included in the Incidental Take Statement in the RCW ESMP BO due to training impacts; however, this “take” does not cover project impacts (USFWS 2002).

FB Cluster KPR-01: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 12 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 4,519.79 ft^2 of pine BA on 82.03 acres of suitable habitat, 2,869.86 ft^2 of pine BA on 67.75 acres of potentially suitable habitat and 501.11 ft^2 of pine BA on 27.50 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 2,987.70 ft^2 of pine BA on 60.42 acres of potentially suitable habitat and 4,903.06 ft^2 of pine BA on 116.86 acres of future potential habitat (Table 3-3). There was no suitable habitat.

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 1,014.56 ft^2 of pine BA on 21.65 acres (Table 3-6 and Figure 3-3).

The post- project SMS foraging habitat totals were 3,909.16 ft^2 of pine BA on 71.40 acres of suitable habitat, 2,549.12 ft^2 of pine BA on 59.95 acres of potentially suitable habitat and 417.92 ft^2 of pine BA on 24.28 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 63.46% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 2,654.30 ft^2 of pine BA on 53.63 acres of potentially suitable habitat and 4,221.90 ft^2 of pine BA on 102.00 acres of future potential habitat (Table 3-3). There was no suitable habitat. This partition can meet the RS in the future (Table 3-15).

FB Cluster L02-02R: This cluster was inactive from 2004 to 2005 and had a PBG from 2006 to 2008 (Table 3-4). It had 5 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 4,613.67 ft^2 of pine BA on 117.31 acres of suitable habitat, 1,052.86 ft^2 of pine BA on 24.17 acres of potentially suitable habitat and 2,206.05 ft^2 of pine BA on 112.06 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 3,418.24 ft^2 of pine BA on 90.79 acres of suitable habitat, 1,080.91 ft^2 of pine BA on 19.84 acres of potentially suitable habitat and 3,373.43 ft^2 of pine BA on 142.91 acres of future potential habitat (Table 3-3).

The 2009 Construct Paved Training Area Roads Project (PN 65554) will remove 609.76 ft^2 of pine BA on 17.33 acres (Table 3-5 and Figure 3-4). The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 354.61 ft^2 of pine BA on 13.97 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 4,065.85 ft^2 of pine BA on 103.12 acres of suitable habitat, 959.26 ft^2 of pine BA on 21.05 acres of potentially suitable habitat and 1,883.10 ft^2 of pine BA on 98.07 acres of future potential habitat (Table 3-2). This cluster will <u>not</u> be taken at the cluster level due to foraging habitat loss (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 13.13% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 3,060.94 ft^2 of pine BA on 81.30 acres of suitable habitat, 1,080.91ft^2 of pine BA on 19.84 acres of potentially suitable habitat and 2,766.36 ft^2 of pine BA on 121.10 acres of future potential habitat (Table 3-3). This partition can meet the RS in the future (Table 3-15).

This partition <u>will</u> be taken at the group level due to the decrease in cluster density within 1.25 miles of its cluster center (Tables 3-11, 3-16 and Figure 3-10).

This cluster was analyzed and "taken" by Transformation projects, but project impacts within this partition have been reanalyzed by MCOE Projects. In addition, this cluster is a SRC and is therefore included in the Incidental Take Statement in the RCW ESMP BO due to training impacts; however, this "take" does not cover project impacts (USFWS 2002).

<u>FB Cluster L03-01</u>: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 9 cavity trees in various stages of completion and suitability (Appendix G). The Repair of Existing Training Area Roads (PN 65557) will have impacts within 51 to 200 feet of 1 cavity tree (Table 3-9).

The pre- project SMS foraging habitat totals were 1,966.83 ft^2 of pine BA on 41.59 acres of suitable habitat, 399.76 ft^2 of pine BA on 8.90 acres of potentially suitable habitat and 1,140.23 ft^2 of pine BA on 57.40 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 1,472.04 ft^2 of pine BA on 27.26 acres of suitable habitat, 238.13 ft^2 of pine BA on 4.59 acres of potentially suitable habitat and 1,796.65 ft^2 of pine BA on 76.04 acres of future potential habitat (Table 3-3).

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 365.66 ft^2 of pine BA on 13.40 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 1,882.31 ft^2 of pine BA on 38.95 acres of suitable habitat, 324.01 ft^2 of pine BA on 6.88 acres of potentially suitable habitat and 934.84 ft^2 of pine BA on 48.66 acres of future potential habitat (Table 3-2). This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 13.44% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,472.04 ft^2 of pine BA on 27.26 acres of suitable habitat, 238.13 ft^2 of pine BA on 4.59 acres of potentially suitable habitat and 1,430.99 ft^2 of pine BA on 62.64 acres of future potential habitat (Table 3-3). This partition cannot meet the RS in the future (Table 3-14).

This cluster is currently monitored as a minimization effort for the DMPRC (FBCB, unpub. data).

FB Cluster M01-01: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 10 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 2,133.46 ft^2 of pine BA on 48.31 acres of suitable habitat and 1,323.19 ft^2 of pine BA on 65.14 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 1,925.10 ft^2 of pine BA on 42.78 acres of potentially suitable habitat and 1,531.55 ft^2 of pine BA on 70.67 acres of future potential habitat (Table 3-3). There was no suitable habitat.

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 127.25 ft^2 of pine BA on 3.79 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 2,057.62 ft^2 of pine BA on 46.62 acres of suitable habitat and 1,271.78 ft^2 of pine BA on 63.04 acres of future potential habitat (Table 3-

2). There was no potentially suitable habitat. This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 5.60% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,867.50 ft^2 of pine BA on 41.50 acres of potentially suitable habitat and 1,461.90 ft^2 of pine BA on 68.16 acres of future potential habitat (Table 3-3). There was no suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

FB Cluster M08-01: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 9 cavity trees in various stages of completion and suitability (Appendix G). The Repair of Existing Training Roads (Phase I) (PN 65557) will impact 1 cavity tree within 50 feet, 4 cavity trees within 51 to 200 feet and will remove 1 inactive cavity tree and 1 active start tree (Table 3-9). These impacts and removals will likely result in "take" of the cluster by harassment (Table 3-11).

The pre- project SMS foraging habitat totals were 5,256.85 ft^2 of pine BA on 115.13 acres of suitable habitat, 758.48 ft^2 of pine BA on 19.96 acres of potentially suitable habitat and 3,323.74 ft^2 of pine BA on 133.14 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 9,339.07 ft^2 of pine BA on 268.23 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 654.17 ft^2 of pine BA on 18.35 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 4,742.82 ft^2 of pine BA on 103.08 acres of suitable habitat, 758.48 ft^2 of pine BA on 19.96 acres of potentially suitable habitat and 3,183.60 ft^2 of pine BA on 126.84 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 24.46% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 8,684.90 ft^2 of pine BA on 249.88 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition can meet the RS in the future (Table 3-15).

FB Cluster M08-02a: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 11 cavity trees in various stages of completion and suitability (Appendix G). The Repair of Existing Training Roads (Phase I) (PN 65557) will have impacts within 51 to 200 feet of 1 cavity tree (Table 3-9).

The pre- project SMS foraging habitat totals were 5,686.47 ft^2 of pine BA on 123.64 acres of suitable habitat, 830.68 ft^2 of pine BA on 17.25 acres of potentially suitable habitat and 286.45 ft^2 of pine BA on 17.55 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 2,479.35 ft^2 of pine BA on 46.60 acres of suitable habitat, 1,246.00 ft^2 of pine BA on 31.53 acres of potentially suitable habitat and 3,078.25 ft^2 of pine BA on 80.31 acres of future potential habitat (Table 3-3).

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 435.87 ft^2 of pine BA on 9.16 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 5,277.35 ft^2 of pine BA on 114.98 acres of suitable habitat, 803.93 ft^2 of pine BA on 16.75 acres of potentially suitable habitat and 286.45 ft^2 of pine BA on 17.55 acres of future potential habitat (Table 3-2). This cluster will <u>not</u> be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 7.67% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 2,128.54 ft^2 of pine BA on 39.53 acres of suitable habitat, 1,246.00 ft^2 of pine BA on 31.53 acres of potentially suitable habitat and 2,993.19 ft^2 of pine BA on 78.22 acres of future potential habitat (Table 3-3). This partition may meet the RS in the future (Table 3-15).

FB Cluster M08-02b: This cluster had a PBG from 2005 to 2008 (Table 3-4) and had 5 cavity trees in various stages of completion and suitability (Appendix G). The Repair of Existing Training Roads (Phase I) (PN 65557) will impact 2 cavity trees within 50 feet, 1 cavity tree within 51 to 200 feet and will remove 1 active cavity tree (Table 3-9). These impacts and removals will likely result in "take" of the cluster by harassment (Table 3-11).

The pre- project SMS foraging habitat totals were 3,351.79 ft^2 of pine BA on 75.99 acres of suitable habitat, 374.84 ft^2 of pine BA on 10.35 acres of potentially suitable habitat and 663.06 ft^2 of pine BA on 30.41 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 1,418.76 ft^2 of pine BA on 31.08 acres of suitable habitat, 812.45 ft^2 of pine BA on 17.97 acres of potentially suitable habitat and 2,158.48 ft^2 of pine BA on 67.70 acres of future potential habitat (Table 3-3).

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 549.03 ft^2 of pine BA on 14.92 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 2,938.65 ft^2 of pine BA on 66.63 acres of suitable habitat, 374.84 ft^2 of pine BA on 10.35 acres of potentially suitable habitat and 527.17 ft^2 of pine BA on 24.85 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 1.48% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,255.32 ft^2 of pine BA on 27.38 acres of suitable habitat, 634.13 ft^2 of pine BA on 14.03 acres of potentially suitable habitat and 1,998.62 ft^2 of pine BA on 62.36 acres of future potential habitat (Table 3-3). This partition cannot meet the RS in the future (Table 3-15).

FB Cluster M08-04R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 5 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 1,894.52 ft^2 of pine BA on 52.64 acres of suitable habitat, 1,383.53 ft^2 of pine BA on 42.57 acres of potentially suitable habitat and 2,140.82 ft^2 of pine BA on 100.17 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 5,418.87 ft^2 of pine BA on 195.38 acres of future potential habitat. There was no suitable or potentially suitable habitat (Table 3-3).

The 2010 Repair of Existing Training Area Roads (PN 65557) will remove 191.91 ft^2 of pine BA on 8.87 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 1,805.46 ft^2 of pine BA on 50.01 acres of suitable habitat, 1,383.53 ft^2 of pine BA on 42.57 acres of potentially suitable habitat and 2,037.97 ft^2 of pine BA on 93.93 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-

10). Loblolly pine that is at high risk of decline accounts for 36.88% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 5,226.96 ft^2 of pine BA on 186.51 acres of future potential habitat (Table 3-3). This partition can meet the RS in the future (Table 3-15).

FB Cluster M08-05R: This cluster had a PBG in 2004, 2005, 2006 and 2008 and a solitary male in 2007 (Table 3-4). It had 7 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 4,240.06 ft^2 of pine BA on 94.72 acres of suitable habitat, 3,652.10 ft^2 of pine BA on 84.06 acres of potentially suitable habitat and 1,182.08 ft^2 of pine BA on 73.04 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 1,014.73 ft^2 of pine BA on 15.98 acres of potentially suitable habitat and 8,059.51 ft^2 of pine BA on 235.84 acres of future potential habitat (Table 3-3). There was no suitable habitat.

The 2009 Northern Training Area Infrastructure Tank Trail Upgrade Project (PN 69742) will remove 20.84 ft^2 of pine BA on 1.04 acre (Table 3-5 and Figure 3-4). The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 149.40 ft^2 of pine BA on 7.04 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 4,230.44 ft^2 of pine BA on 94.46 acres of suitable habitat, 3,594.77 ft^2 of pine BA on 82.22 acres of potentially suitable habitat and 1,078.79 ft^2 of pine BA on 67.06 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 39.42% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,014.73 ft^2 of pine BA on 15.98 acres of potentially suitable habitat and 7,889.27 ft^2 of pine BA on 227.76 acres of future potential habitat (Table 3-3). There was no suitable habitat. This partition can meet the RS in the future (Table 3-15).

FB Cluster N01-02: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 7 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 2,522.32 ft^2 of pine BA on 65.26 acres of suitable habitat, 1,339.39 ft^2 of pine BA on 29.33 acres of potentially suitable habitat and 351.12 ft^2 of pine BA on 33.59 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 938.86 ft^2 of pine BA on 20.41 acres of suitable habitat, 502.08 ft^2 of pine BA on 10.46 acres of potentially suitable habitat and 2,890.39 ft^2 of pine BA on 100.31 acres of future potential habitat (Table 3-3).

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 156.85 ft^2 of pine BA on 4.36 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 2,484.10 ft^2 of pine BA on 64.28 acres of suitable habitat, 1,241.16 ft^2 of pine BA on 26.97 acres of potentially suitable habitat and 330.72 ft^2 of pine BA on 32.57 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 44.25% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 938.86 ft^2 of pine BA on 20.41 acres of suitable habitat, 502.08 ft^2 of pine BA on 10.46 acres of potentially suitable habitat and 2,733.54 ft^2 of pine BA on 95.95 acres of future potential habitat (Table 3-3). This partition may meet the RS in the future (Table 3-15).

FB Cluster O01-01: This cluster had a PBG from 2004 to 2008 (Table 3-4) and had 14 cavity trees in various stages of completion and suitability (Appendix G). The Northern Training Area Infrastructure - Upgrade Tank Trails (PN 69742) will impact 3 cavity trees within 51 to 200 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 4,120.49 ft^2 of pine BA on 110.72 acres of suitable habitat, 935.95 ft^2 of pine BA on 28.35 acres of potentially suitable habitat and 47.78 ft^2 of pine BA on 9.25 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 1,482.92 ft^2 of pine BA on 34.25 acres of suitable habitat, 2.05 ft^2 of pine BA on 0.05 acre of potentially suitable habitat and 3,619.25 ft^2 of pine BA on 114.02 acres of future potential habitat (Table 3-3).

The 2009 Northern Training Area Infrastructure - Upgrade Tank Trails (PN 69742) will remove 95.33 ft^2 of pine BA on 2.31 acres (Table 3-5 and Figure 3-4).

The post- project SMS foraging habitat totals were 4,025.16 ft^2 of pine BA on 108.41 acres of suitable habitat, 935.95 ft^2 of pine BA on 28.35 acres of potentially suitable habitat and 47.78 ft^2 of pine BA on 9.25 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 19.74% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,482.92 ft^2 of pine BA on 34.25 acres of suitable habitat, 2.05 ft^2 of pine BA on 0.05 acre of potentially suitable habitat and 3,523.92 ft^2 of pine BA on 111.71 acres of future potential habitat (Table 3-3). This cluster can meet the RS in the future (Table 3-15).

FB Cluster O01-02: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 7 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 877.11 ft^2 of pine BA on 24.05 acres of suitable habitat, 498.56 ft^2 of pine BA on 12.16 acres of potentially suitable habitat and 2,236.35 ft^2 of pine BA on 112.46 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 76.32 ft^2 of pine BA on 2.12 acres of suitable habitat, 498.56 ft^2 of pine BA on 12.16 acres of potentially suitable habitat and 3,037.14 ft^2 of pine BA on 134.39 acres of future potential habitat (Table 3-3).

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 339.82 ft^2 of pine BA on 13.05 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 712.46 ft^2 of pine BA on 19.60 acres of suitable habitat, 498.56 ft^2 of pine BA on 12.16 acres of potentially suitable habitat and 2,061.18 ft^2 of pine BA on 103.86 acres of future potential habitat (Table 3-2). This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies

(Tables 3-2, 3-11, 3-12 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 6.30% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 76.32 ft^2 of pine BA on 2.12 acres of suitable habitat, 498.56 ft^2 of pine BA on 12.16 acres of potentially suitable habitat and 2,697.32 ft^2 of pine BA on 121.34 acres of future potential habitat (Table 3-3). This partition may meet the RS in the future (Table 3-14).

FB Cluster O01-03: This cluster was captured by O03-02 in 2007 and had a PBG in 2004, 2005, 2006 and 2008 (Table 3-4). It had 8 cavity trees in various stages of completion and suitability (Appendix G). The Northern Training Area Infrastructure Tank Trail Upgrade (PN 69742) will impact 4 cavity trees within 51 to 200 feet. In addition, the Repair of Existing Training Roads (Phase I) (PN 65557) will impact 3 different cavity trees within 51 to 200 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 3,768.47 ft^2 of pine BA on 86.23 acres of suitable habitat, 1,079.14 ft^2 of pine BA on 23.52 acres of potentially suitable habitat and 745.27 ft^2 of pine BA on 40.74 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 156.91 ft^2 of pine BA on 3.35 acres of suitable habitat and 5,435.97 ft^2 of pine BA on 147.14 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Northern Training Area Infrastructure Tank Trail Upgrade (PN 69742) will remove 350.74 ft^2 of pine BA on 10.47 acres (Table 3-5 and Figure 3-4). The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 319.28 ft^2 of pine BA on 12.71 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 3,524.44 ft^2 of pine BA on 81.14 acres of suitable habitat, 881.94 ft^2 of pine BA on 19.18 acres of potentially suitable habitat and 516.48 ft^2 of pine BA on 26.99 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 32.04% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 102.58 ft^2 of pine BA on 2.19 acres of suitable habitat and 4,820.28 ft^2 of pine BA on 125.12 acres of future potential habitat (Table 3-

3). There was no potentially suitable habitat. This partition may meet the RS in the future (Table 3-15).

FB Cluster O01-04R: This cluster had a PBG in 2004, 2005, 2006 and 2008 but had a solitary male in 2007 (Table 3-4). It contained 6 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 2,058.33 ft^2 of pine BA on 48.70 acres of suitable habitat, 2,922.05 ft^2 of pine BA on 72.87 acres of potentially suitable habitat and 819.75 ft^2 of pine BA on 47.54 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 0.76 ft^2 of pine BA on 0.01 acre of suitable habitat and 5,799.37 ft^2 of pine BA on 169.10 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Northern Training Area Infrastructure Tank Trail Upgrade (PN 69742) will remove 300.81 ft^2 of pine BA on 10.34 acres (Table 3-5 and Figure 3-4). The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 378.36 ft^2 of pine BA on 11.98 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 1,803.90 ft^2 of pine BA on 42.18 acres of suitable habitat, 2,677.87 ft^2 of pine BA on 66.57 acres of potentially suitable habitat and 639.19 ft^2 of pine BA on 38.04 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 15.73% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 0.76 ft^2 of pine BA on 0.01 acre of suitable habitat and 5,120.20 ft^2 of pine BA on 146.78 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition may meet the RS in the future (Table 3-15).

FB Cluster O02-01R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and had 7 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 2,430.15 ft^2 of pine BA on 54.69 acres of suitable habitat, 2,560.76 ft^2 of pine BA on 61.30 acres of potentially suitable habitat and 1,889.73 ft^2 of pine BA on 103.56 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 1,738.00 ft^2 of pine BA on 37.31 acres of suitable habitat, 2,416.13 ft^2 of pine BA on 56.85 acres of potentially suitable habitat and 2,726.51 ft^2 of pine BA on 125.39 acres of future potential habitat (Table 3-3).

The 2010 Repair Existing Training Area Roads project (PN 65557) will remove 459.92 ft^2 of pine BA on 18.07 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 2,114.45 ft^2 of pine BA on 46.87 acres of suitable habitat, 2,490.70 ft^2 of pine BA on 59.48 acres of potentially suitable habitat and 1,815.57 ft^2 of pine BA on 95.13 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 3.35% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,654.90 ft^2 of pine BA on 35.46 acres of suitable habitat, 2,369.80 ft^2 of pine BA on 55.76 acres of potentially suitable habitat and 2,396.02 ft^2 of pine BA on 110.26 acres of future potential habitat (Table 3-3). This partition can meet the RS in the future (Table 3-15).

FB Cluster O03-01: This cluster was inactive in 2004 and had a PBG from 2005 to 2008 (Table 3-4). It contained 9 cavity trees in various stages of completion and suitability (Appendix G). The Northern Training Area Infrastructure (PN 69742) will impact 1 cavity tree within 50 feet, 2 cavity trees within 51 to 200 feet and will remove 6 cavity trees (Table 3-9). This will result in "take" of the cluster from loss of cavity trees (Table 3-11).

The pre- project SMS foraging habitat totals were 669.02 ft^2 of pine BA on 16.68 acres of suitable habitat, 1,063.85 ft^2 of pine BA on 29.59 acres of potentially suitable habitat and 1,109.74 ft^2 of pine BA on 47.03 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 936.95 ft^2 of pine BA on 26.77 acres of potentially suitable habitat and 1,905.66 ft^2 of pine BA on 66.53 acres of future potential habitat (Table 3-3). There was no suitable habitat.

The 2009 Northern Training Area Infrastructure Tank Trail Upgrade (PN 69742) will remove 331.90 ft^2 of pine BA on 11.28 acres (Table 3-5 and Figure 3-4).

The post- project SMS foraging habitat totals were 629.02 ft^2 of pine BA on 15.68 acres of suitable habitat, 896.25 ft^2 of pine BA on 24.85 acres of potentially suitable habitat and 985.44 ft^2 of pine BA on 41.49 acres of future potential habitat (Table 3-2). This cluster will also be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 23.44% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 777.00 ft^2 of pine BA on 22.20 acres of potentially suitable habitat and 1,733.71 ft^2 of pine BA on 59.82 acres of future potential habitat (Table 3-3). There was no suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

FB Cluster O03-02: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 7 cavity trees in various stages of completion and suitability (Appendix G). The Repair of Existing Training Roads (Phase I) (PN 65557) will impact 1 cavity tree within 51 to 200 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 4,712.84 ft^2 of pine BA on 116.42 acres of suitable habitat and 648.55 ft^2 of pine BA on 47.04 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 2,669.80 ft^2 of pine BA on 63.17 acres of suitable habitat, 293.55 ft^2 of pine BA on 5.70 acres of potentially suitable habitat and 2,398.04 ft^2 of pine BA on 94.59 acres of future potential habitat (Table 3-3).

The 2009 Access Road for Basic 10M-25M Firing Range (Z2) Project (PN65036) will remove 17.28 ft^2 of pine BA on 0.42 acre. The 2009 Northern Training Area Infrastructure Tank Trail Upgrade (PN 69742) will remove 379.23 ft^2 pine BA on 10.75 acres. The 2009 Construct Training Area Roads Project (PN 65554) will remove 154.45 ft^2 of pine BA on 6.97 acres (Table 3-5 and Figure 3-4). The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 524.64 ft^2 of pine BA on 14.01 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 3,835.16 ft^2 of pine BA on 95.65 acres of suitable habitat and 450.63 ft^2 of pine BA on 35.66 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will not be taken at the cluster level

due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 1.55% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 2,079.83 ft^2 of pine BA on 49.28 acres of suitable habitat, 190.03 ft^2 of pine BA on 3.69 acres of potentially suitable habitat and 2,015.93 ft^2 of pine BA on 78.34 acres of future potential habitat (Table 3-3). This partition may meet the RS in the future (Table 3-15).

FB Cluster O03-03: This cluster had a PBG from 2004 to 2008 (Table 3-4) and had 9 cavity trees in various stages of completion and suitability (Appendix G). The Northern Training Area Infrastructure (PN 69742) will impact 2 cavity trees within 50 feet, 1 cavity tree within 51 to 200 feet and remove 2 active cavity trees and 2 inactive cavity trees. In addition, the Repair of Existing Training Roads (Phase I) (PN 65557) will impact 1 cavity tree within 50 feet and 2 cavity trees within 51 to 200 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 2,007.64 ft^2 of pine BA on 45.82 acres of suitable habitat and 1,272.13 ft^2 of pine BA on 116.60 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 1,165.32 ft^2 of pine BA on 22.41 acres of suitable habitat and 2,671.25 ft^2 of pine BA on 155.51 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Northern Training Area Infrastructure Tank Trail Upgrade (PN 69742) will remove 275.13 ft^2 pine BA on 10.25 acres (Table 3-5 and Figure 3-4). The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 288.02 ft^2 of pine BA on 13.45 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 1,609.69 ft^2 of pine BA on 37.27 acres of suitable habitat and 1,106.93 ft^2 of pine BA on 101.45 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 39.50% of the SMS post-project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 877.24 ft^2 of pine BA on 16.87 acres of suitable habitat and 2,396.18 ft^2 of pine BA on 137.35 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition can meet the RS in the future (Table 3-14).

FB Cluster O03-04: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 10 cavity trees in various stages of completion and suitability (Appendix G). The Northern Training Area Infrastructure (PN 69742) will impact 5 cavity trees within 51 to 200 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 1,037.71 ft^2 of pine BA on 30.00 acres of suitable habitat, 254.34 ft^2 of pine BA on 6.36 acres of potentially suitable habitat and 2,012.23 ft^2 of pine BA on 156.50 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 3,304.28 ft^2 of pine BA on 192.86 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2009 Northern Training Area Infrastructure Tank Trail Upgrade (PN 69742) will remove 356.64 ft^2 pine BA on 22.92 acres (Table 3-5 and Figure 3-4). The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 105.20 ft^2 of pine BA on 4.78 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 861.16 ft^2 of pine BA on 24.74 acres of suitable habitat, 254.34 ft^2 of pine BA on 6.36 acres of potentially suitable habitat and 1,726.94 ft^2 of pine BA on 134.06 acres of future potential habitat. This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 37.04% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 2,842.44 ft^2 of pine BA on 165.16 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition can meet the RS in the future (Table 3-14).

FB Cluster O03-05: This cluster had a PBG from 2004 to 2008 (Table 3-4) and had 10 cavity trees in various stages of completion and suitability (Appendix G). The Repair of Existing Training Roads (Phase I) (PN 65557) will impact 2 cavity trees within 50 feet and 7 cavity trees within 51 to 200 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 6,474.35 ft^2 of pine BA on 152.93 acres of suitable habitat, 1,676.66 ft^2 of pine BA on 43.54 acres of potentially suitable habitat and 570.39 ft^2 of pine BA on 71.71 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 3,179.14 ft^2 of pine BA on 69.35 acres of suitable habitat and 5,542.26 ft^2 of pine BA on 198.83 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 756.92 ft^2 of pine BA on 25.70 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 5,979.87 ft^2 of pine BA on 140.19 acres of suitable habitat, 1,481.92 ft^2 of pine BA on 38.61 acres of potentially suitable habitat and 502.69 ft^2 of pine BA on 63.68 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 25.49% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 2,938.48 ft^2 of pine BA on 63.25 acres of suitable habitat and 5,026.00 ft^2 of pine BA on 179.23 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition can meet the RS in the future (Table 3-15).

FB Cluster O03-06R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 5 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 4,283.33 ft^2 of pine BA on 122.32 acres of suitable habitat and 3,469.15 ft^2 of pine BA on 143.78 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 7,752.48 ft^2 of pine BA on 266.10 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2009 Northern Training Area Infrastructure Tank Trail Construction and Upgrade (PN 69742) will remove 1,006.11 ft^2 pine BA on 31.32 acres. The 2009 Support Staging Area (PN 69742) will remove 113.48 ft^2 pine BA on 3.71 acres (Table 3-5 and Figure 3-4).

The post- project SMS foraging habitat totals were 3,519.34 ft^2 of pine on 99.98 acres of suitable habitat and 3,113.55 ft^2 of pine BA on 131.09 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 34.61% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 6,632.89 ft^2 of pine BA on 231.07 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition can meet the RS in the future (Table 3-15).

FB Cluster O03-07: This cluster had a PBG from 2006 to 2008 (Table 3-4); it contained 5 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 5,086.28 ft^2 of pine BA on 122.38 acres of suitable habitat and 507.19 ft^2 of pine BA on 56.01 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 5,593.47 ft^2 of pine BA on 178.39 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 415.76 ft^2 of pine BA on 10.79 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 4,670.52 ft^2 of pine BA on 111.96 acres of suitable habitat and 507.19 ft^2 of pine BA on 55.64 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will not be taken at the cluster level (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 44.59% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 5,177.71 ft^2 of pine BA on 167.60 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition can meet the RS in the future (Table 3-15).

This cluster is a SRC and is therefore included in the Incidental Take Statement in the RCW ESMP BO due to training impacts; however, this "take" does not cover project impacts (USFWS 2002).

FB Cluster O04-01: This cluster had a PBG in 2004, 2006, 2007 and 2008 and was captured by O04-03b in 2005 (Table 3-4). It had 7 cavity trees in various stages of completion and suitability (Appendix G). The Repair of Existing Training Roads (Phase I) (PN 65557) will impact 1 cavity tree within 50 feet, 3 cavity trees within 51 to 200 feet and will remove 1 inactive insert cavity tree and 1 active cavity (Table 3-9). This will result in "take" of the cluster from loss of cavity trees (Tables 3-11).

The pre- project SMS foraging habitat total was 1,778.52 ft^2 of pine BA on 73.17 acres of future potential habitat (Table 3-2). There was no suitable or potentially suitable habitat.

The pre- project RS foraging habitat totals were 1,778.52 ft^2 of pine BA on 73.17 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 355.84 ft^2 of pine BA on 14.67 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat total was 1,422.68 ft^2 of pine BA on 58.50 acres of future potential habitat (Table 3-2). There was no suitable or potentially suitable habitat. This cluster will also be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,422.68 ft^2 of pine BA on 58.50 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

FB Cluster O04-03a: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 10 cavity trees in various stages of completion and suitability (Appendix G). The Repair of Existing Training Roads (Phase I) (PN 65557) will impact 3 cavity trees within 50 feet (Table 3-9).

The pre- project SMS foraging habitat total was 1,627.87 ft^2 of pine BA on 75.69 acres of future potential habitat (Table 3-2). There was no suitable or potentially suitable habitat.

The pre- project RS foraging habitat totals were 1,627.87 ft^2 of pine BA on 75.69 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 47.52 ft^2 of pine BA on 2.21 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat total was 1,580.35 ft^2 of pine BA on 73.48 acres of future potential habitat (Table 3-2). There was no suitable or potentially suitable habitat. This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 0.00% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,580.35 ft^2 of pine BA on 73.48 acres of future potential habitat. (Table 3-3) There was no suitable or potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

FB Cluster O04-03b: This cluster had a PBG from 2005 to 2008 (Table 3-4) and had 5 cavity trees in various stages of completion and suitability (Appendix G). The Repair of Existing Training Roads (Phase I) (PN 65557) will impact 2 cavity trees within 50 feet and remove 2 active cavity trees and 1 inactive start tree, resulting in "take" of the cluster from loss of cavity trees (Tables 3-9 and 3-11).

The pre- project SMS foraging habitat totals were 1,262.54 ft^2 of pine BA on 26.18 acres of suitable habitat and 800.44 ft^2 of pine BA on 56.21 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 627.45 ft^2 of pine BA on 13.35 acres of suitable habitat and 2,132.56 ft^2 of pine BA on 105.38 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

Under the SMS, the 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 327.24 ft^2 of pine BA on 11.52 acres (Table 3-6 and Figure 3-4).

Under the RSG, the 2009 Northern Training Area Infrastructure Project (PN 69742) will remove 117.80 ft^2 of pine BA on 3.88 acres. The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 401.95 ft^2 of pine BA on 15.23 acres (Table 3-3 and Figure 3-10).

The post- project SMS foraging habitat totals were 1,057.15 ft^2 of pine BA on 21.81 acres of suitable habitat and 678.59 ft^2 of pine BA on 49.06 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 5.41% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 422.06 ft^2 of pine BA on 8.98 acres of suitable habitat and 1,818.20 ft^2 of pine BA on 90.64 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

FB Cluster O05-01: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 14 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 11,209.36 ft^2 of pine BA on 220.28 acres of suitable habitat, 671.22 ft^2 of pine BA on 8.60 acres of potentially suitable habitat and 620.57 ft^2 of pine BA on 46.87 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 660.92 ft^2 of pine BA on 13.36 acres of suitable habitat, 6,677.13 ft^2 of pine BA on 130.79 acres of potentially suitable habitat and 5,163.10 ft^2 of pine BA on 131.60 acres of future potential habitat (Table 3-3).

The 2009 Construction Limits for Modified Record Fire Range (MRF1) (PN 65043) will remove 36.34 ft^2 pine BA on 0.71 acre. The 2009 Modified Fire Range (MRF7) (PN 65049) will remove 36.19 ft^2 of pine BA on 0.76 acre. The MRF7 construction limits will remove 488.31 ft^2 of pine BA on 8.92 acres. The MRF7 access road will remove 109.05 ft^2 of pine BA on 2.29 acres. The 2009 Construct Training Area Roads Project (PN 65554) will remove 351.64 ft^2 pine BA on 7.10 acres (Table 3-5 and Figure 3-6). The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 388.99 ft^2 pine BA on 9.16 acres (Table 3-6 and Figure 3-6).

The post- project SMS foraging habitat totals were 10,093.70 ft^2 of pine BA on 197.28 acres of suitable habitat, 515.36 ft^2 of pine BA on 6.85 acres of potentially suitable habitat and 481.57 ft^2 of pine BA on 42.68 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10).

Loblolly pine that is at high risk of decline accounts for 23.72% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 539.22 ft^2 of pine BA on 10.90 acres of suitable habitat, 6,390.80 ft^2 of pine BA on 125.11 acres of potentially suitable habitat and 4,160.61 ft^2 of pine BA on 110.80 acres of future potential habitat (Table 3-3). This partition meets the RS (Table 3-15).

FB Cluster O05-02: This cluster had a PBG from 2004 to 2008 (Table 3-4) and had 7 cavity trees in various stages of completion and suitability (Appendix G). The Repair of Existing Training Roads (Phase I) (PN 65557) will impact 5 cavity trees within 51 to 200 feet and remove 1 inactive cavity tree (Table 3-9).

The pre- project SMS foraging habitat totals were 3,884.27 ft^2 of pine BA on 92.95 acres of suitable habitat, 468.35 ft^2 of pine BA on 10.36 acres of potentially suitable habitat and 813.56 ft^2 of pine BA on 31.46 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 543.72 ft^2 of pine BA on 10.99 acres of suitable habitat and 4,622.46 ft^2 of pine BA on 123.78 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Basic 10M-25M Firing Range (Z2) (PN 65036) construction limits will remove 149.46 ft^2 pine BA on 4.29 acres. The Z2 access road will remove 234.63 ft^2 pine BA on 5.24 acres. The 2009 MRF7 (PN 65049) will remove 614.72 ft^2 of pine BA on 16.78 acres. The MRF7 construction limits will remove 587.11 ft^2 of pine BA on 12.83 acres (Table 3-5 and Figure 3-6). The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 258.37 ft^2 of pine BA on 6.72 acres (Table 3-6 and Figure 3-6). The 2011 Z2 beaten area will remove 291.19 ft^2 of pine BA on 10.04 acres. The 2011 MRF7 beaten area will remove 401.43 ft^2 of pine BA on 10.12 acres (Table 3-7 and Figure 3-6). As a result of project impacts, 104.37 ft^2 of pine BA on 3.29 acres will become non-contiguous and cannot be counted towards the available foraging habitat for the partition (Table 3-2).

The post- project SMS foraging habitat totals were 2,524.91 ft^2 of pine BA on 61.60 acres of suitable habitat and 0.00 ft^2 of pine BA on 3.86 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-10). Loblolly pine that is at high

risk of decline accounts for 3.04% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 488.30 ft^2 of pine BA on 9.87 acres of suitable habitat and 2,036.60 ft^2 of pine BA on 55.59 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition cannot meet RS in the future (Table 3-14).

FB Cluster O05-03R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 6 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 7,748.62 ft^2 of pine BA on 181.66 acres of suitable habitat, 471.90 ft^2 of pine BA on 11.91 acres of potentially suitable habitat and 804.24 ft^2 of pine BA on 44.45 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 3,495.36 ft^2 of pine BA on 72.82 acres of suitable habitat and 5,529.40 ft^2 of pine BA on 165.20 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Basic 10M-25M Firing Range (Z1) (PN 65035) will remove 17.22 ft^2 of pine BA on 0.50 acre. The Z1 construction limits will remove 128.01 ft^2 of pine BA on 3.60 acres. The 2009 MRF1 (PN 65043) will remove 0.00 ft^2 of pine BA on 1.62 acres. The MRF1 construction limits will remove 224.10 ft^2 of pine BA on 11.19 acres (Table 3-5 and Figure 3-6). The 2011 Z1 beaten area will remove 48.97 ft^2 of pine BA on 1.18 acre. The 2011 Z2 beaten area will remove 54.96 ft^2 of pine BA on 4.44 acres. The 2011 MRF1 beaten area will remove 723.25 ft^2 of pine BA on 17.88 acres. The 2011 MRF7 beaten area will remove 538.88 ft^2 of pine BA on 15.50 acres (Table 3-7 and Figure 3-6).

The post- project SMS foraging habitat totals were 6,654.37 ft^2 of pine BA on 154.70 acres of suitable habitat, 84.42 ft^2 of pine BA on 2.43 acres of potentially suitable habitat and 550.58 ft^2 of pine BA on 24.98 acres of future potential habitat (Table 3-2). This cluster will <u>not</u> be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 20.41% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 3,492.96 ft^2 of pine BA on 72.77 acres of suitable habitat and 3,796.41 ft^2 of pine BA on 109.34 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition can meet the RS in the future (Table 3-15).

FB Cluster O07-01R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 8 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 5,676.85 ft^2 of pine BA on 131.74 acres of potentially suitable habitat and 1,157.39 ft^2 of pine BA on 96.33 acres of future potential habitat (Table 3-2). There was no suitable habitat.

The pre- project RS foraging habitat totals were 6,834.24 ft^2 of pine BA on 228.07 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2009 Fire and Movement Range (FM2) (PN 65033) will remove 210.90 ft^2 of pine BA on 8.19 acres. The FM2 construction limits will remove 564.70 ft^2 of pine BA on 26.58 acres. The FM2 access road will remove 516.06 ft^2 of pine BA on 12.58 acres (Table 3-5 and Figure 3-6). The 2011 FM2 beaten area will remove 79.52 ft^2 of pine BA on 2.79 acres (Table 3-7 and Figure 3-6).

The post- project SMS foraging habitat totals were 5,159.54 ft^2 of pine BA on 119.61 acres of potentially suitable habitat and 303.52 ft^2 of pine BA on 58.32 acres of future potential habitat (Table 3-2). There was no suitable habitat. This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 66.96% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 5,463.06 ft^2 of pine BA on 177.93 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This cluster can meet the RS in the future (Table 3-15).

This partition will be taken at the group level due to the decrease in cluster density within 1.25 miles of its cluster center (Tables 3-11, 3-16 and Figure 3-10).

FB Cluster O07-03R: This cluster was inactive in 2006 and had a PBG in 2004, 2005, 2007 and 2008 (Table 3-4). It had 4 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 2,900.77 ft^2 of pine BA on 73.17 acres of suitable habitat, 2,464.09 ft^2 of pine BA on 75.33 acres of potentially suitable habitat and 4,581.38 ft^2 of pine BA on 197.63 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 0.40 ft^2 of pine BA on 0.01 acre and 9,945.84 ft^2 of pine BA on 346.12 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Construct Training Area Roads Project (PN 65554) will remove 582.20 ft^2 of pine BA on 20.17 acres (Table 3-5 and Figure 3-4).

The post- project SMS foraging habitat totals were 2,551.14 ft^2 of pine BA on 63.83 acres of suitable habitat, 2,464.09 ft^2 of pine BA on 75.33 acres of potentially suitable habitat and 4,348.81 ft^2 of pine BA on 186.80 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 84.77% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 0.40 ft^2 of pine BA on 0.01 acre and 9,363.64 ft^2 of pine BA on 325.95 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition can meet the RS in the future (Table 3-15).

This partition will be taken at the group level due to the decrease in cluster density within 1.25 miles of its cluster center (Tables 3-11, 3-16 and Figure 3-10).

FB Cluster O08-01: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 13 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 412.93 ft^2 of pine BA on 13.06 acres of suitable habitat, 876.00 ft^2 of pine BA on 23.36 acres of potentially suitable habitat and 3,799.26 ft^2 of pine BA on 192.50 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 5,088.19 ft^2 of pine BA on 228.92 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2009 Construct Training Area Roads Project (PN 65554) will remove 321.96 ft^2 of pine BA on 12.67 acres (Table 3-5 and Figure 3-4). The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 136.14 ft^2 of pine BA on 6.79 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 316.36 ft^2 of pine BA on 10.01 acres of suitable habitat, 745.50 ft^2 of pine BA on 19.88 acres of potentially suitable habitat and 3,568.23 ft^2 of pine BA on 179.57 acres of future potential habitat (Table 3-2). This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 49.98% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 4,630.09 ft^2 of pine BA on 209.46 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition can meet the RS in the future (Table 3-14).

FB Cluster O08-02: This cluster had a PBG from 2004 to 2008 (Table 3-4) and had 8 cavity trees in various stages of completion and suitability (Appendix G). The 2009 Construct Training Area Roads Project (PN 65554) will impact 2 cavity trees within 51 to 200 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 1,800.51 ft^2 of pine BA on 43.69 acres of suitable habitat, 1,268.46 ft^2 of pine BA on 34.00 acres of potentially suitable habitat and 4,127.10 ft^2 of pine BA on 199.56 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 925.38 ft^2 of pine BA on 19.08 acres of potentially suitable habitat and 6,270.69 ft^2 of pine BA on 258.17 acres of future potential habitat (Table 3-3). There was no suitable habitat.

The 2009 Construct Training Area Roads Project (PN 65554) will remove 516.85 ft^2 of pine BA on 17.80 acres (Table 3-5 and Figure 3-4).

The post- project SMS foraging habitat totals were 1,668.94 ft^2 of pine BA on 39.99 acres of suitable habitat, 1,268.46 ft^2 of pine BA on 34.00 acres of potentially suitable habitat and 3,741.82 ft^2 of pine BA on 185.46 acres of future potential habitat (Table 3-2). This cluster will be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 43.98% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 925.38 ft^2 of pine BA on 19.08 acres of potentially suitable habitat and 5,753.84 ft^2 of pine BA on 240.37 acres of future potential habitat (Table 3-3). There was no suitable habitat. This partition can meet the RS in the future (Table 3-14).

FB Cluster O09-02: This cluster had a PBG from 2004 to 2008 (Table 3-4) and had 9 cavity trees in various stages of completion and suitability (Appendix G). The construction of the Stationary Tank Range (ST2) (PN 65383) and beaten area will impact 2 cavity trees within 51 to 200 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 3,003.15 ft^2 of pine BA on 68.56 acres of suitable habitat, 400.89 ft^2 of pine BA on 8.58 acres of potentially suitable habitat and 2,906.97 ft^2 of pine BA on 116.17 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 2,111.69 ft^2 of pine BA on 43.54 acres of potentially suitable habitat and 4,199.32 ft^2 of pine BA on 149.77 acres of future potential habitat (Table 3-3). There was no suitable habitat.

The 2009 ST2 (PN 65383) will remove 783.52 ft^2 of pine BA on 30.40 acres. The ST2 construction limits will remove 316.63 ft^2 of pine BA on 12.65 acres (Table 3-5 and Figure 3-4). The 2011 ST2 beaten area will remove 25.65 ft^2 of pine BA on 1.35 acre (Table 3-7 and Figure 3-4).

The post- project SMS foraging habitat totals were 3,003.15 ft^2 of pine BA on 68.56 acres of suitable habitat, 400.89 ft^2 of pine BA on 8.58 acres of potentially suitable habitat and 1,781.17 ft^2 of pine BA on 71.77 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 18.65% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 2,111.69 ft^2 of pine BA on 43.54 acres of potentially suitable habitat and 3,073.52 ft^2 of pine BA on 105.37 acres of future potential habitat (Table 3-3). There was no suitable habitat. This partition may meet the RS in the future (Table 3-15).

This partition will be taken at the group level due to the decrease in cluster density within 1.25 miles of its cluster center (Tables 3-11, 3-16 and Figure 3-10).

FB Cluster O10-01: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 9 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 1,406.60 ft^2 of pine BA on 43.28 acres of suitable habitat, 2,590.59 ft^2 of pine BA on 69.18 acres of potentially suitable habitat and 1,242.64 ft^2 of pine BA on 117.33 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 5,239.83 ft^2 of pine BA on 229.79 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2009 Construct Training Area Roads Project (PN 65554) will remove 314.35 ft^2 of pine BA on 13.36 acres (Table 3-5 and Figure 3-4). The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 288.37 ft^2 of pine BA on 8.70 acres (Table 3-6 and Figure 3-4). As a result of project impacts, 4.93 ft^2 of pine BA on 0.17 acre will be non-contiguous and cannot be counted towards the available foraging habitat for the partition (Table 3-2).

The post- project SMS foraging habitat totals were 1,406.60 ft^2 of pine BA on 43.28 acres of suitable habitat, 2,106.83 ft^2 of pine BA on 56.98 acres of potentially suitable habitat and 1,118.75 ft^2 of pine BA on 107.30 acres of future potential habitat (Table 3-2). This cluster will <u>not</u> be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 66.03% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 4,632.18 ft^2 of pine BA on 207.56 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition can meet the RS in the future (Table 3-15).

FB Cluster O10-02: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 14 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 2,369.23 ft^2 of pine BA on 72.26 acres of suitable habitat, 79.58 ft^2 of pine BA on 2.52 acres of potentially suitable habitat and 994.28 ft^2 of pine BA on 142.66 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 3,974.72 ft^2 of pine BA on 233.54 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2009 ST2 (PN 65383) will remove 39.85 ft^2 of pine BA on 1.32 acre. The ST2 construction limits will remove 55.08 ft^2 of pine BA on 1.82 acre. The 2009 Construct Training Area Roads Project (PN 65554) will remove 231.53 ft^2 of pine BA on 8.11 acres (Table 3-5 and Figure 3-4).

The post- project SMS foraging habitat totals were 2,250.03 ft^2 of pine BA on 69.28 acres of suitable habitat, 13.26 ft^2 of pine BA on 0.42 acre of potentially suitable habitat and 853.34 ft^2 of pine BA on 136.49 acres of future potential habitat (Table 3-2). This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 62.88% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 3,648.26 ft^2 of pine BA on 222.29 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition can meet the RS in the future (Table 3-14).

FB Cluster O10-03: This cluster had a PBG from 2005 to 2007; in 2004 and 2008, it was captured by O13-01 (Table 3-4). It contained 6 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 192.50 ft^2 of pine BA on 5.00 acres of suitable habitat, 3,666.92 ft^2 of pine BA on 106.93 acres of potentially suitable habitat and 539.68 ft^2 of pine BA on 28.66 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 120.15 ft^2 of pine BA on 2.67 acres of potentially suitable habitat and 4,278.95 ft^2 of pine BA on 137.92 acres of future potential habitat (Table 3-3). There was no suitable habitat.

The 2009 Construct Training Area Roads Project (PN 65554) will remove 328.75 ft^2 of pine BA on 11.65 acres (Table 3-5 and Figure 3-4). The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 111.40 ft^2 of pine BA on 3.10 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 118.96 ft^2 of pine BA on 3.09 acres of suitable habitat, 3,375.69 ft^2 of pine BA on 98.33 acres of potentially suitable habitat and 464.30 ft^2 of pine BA on 24.42 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 52.82% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 120.15 ft^2 of pine BA on 2.67 acres of potentially suitable habitat and 3,838.80 ft^2 of pine BA on 123.17 acres of future potential habitat (Table 3-3). There was no suitable habitat. This partition may meet the RS in the future (Table 3-15).

This cluster is currently monitored as a minimization effort for the DMPRC (FBCB, unpub. data).

FB Cluster O10-04: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 9 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat total was 4,657.54 ft^2 of pine BA on 139.26 acres of potentially suitable habitat and 79.67 ft^2 of pine BA on 25.05 acres of future potential habitat (Table 3-2). There was no suitable habitat.

The pre- project RS foraging habitat totals were 4,737.21 ft^2 of pine BA on 164.31 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 429.16 ft^2 of pine BA on 15.54 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat total was 4,228.38 ft^2 of pine BA on 126.78 acres of potentially suitable habitat and 79.67 ft^2 of pine BA on 21.99 acres of future potential habitat (Table 3-2). There was no suitable habitat. This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 64.73% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 4,308.05 ft^2 of pine BA on 148.77 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition may meet the RS in the future (Table 3-15).

FB Cluster O11-01: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 15 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 3,376.17 ft^2 of pine BA on 57.56 acres of suitable habitat, 871.91 ft^2 of pine BA on 22.28 acres of potentially suitable habitat and 1,269.31 ft^2 of pine BA on 70.47 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 1,648.92 ft^2 of pine BA on 19.63 acres of suitable habitat, 607.36 ft^2 of pine BA on 9.11 acres of potentially suitable habitat and 3,740.38 ft^2 of pine BA on 134.78 acres of future potential habitat (Table 3-3).

Under the SMS, the 2009 Northern Training Area Infrastructure (PN 69742) will remove 222.46 ft^2 of pine BA on 13.63 acres (Table 3-5 and Figure 3-4). The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 3.08 ft^2 pine BA on 0.11 acre (Table 3-6 and Figure 3-4).

Under the RSG, the 2009 Northern Training Area Infrastructure (PN 69742) would remove 296.78 ft^2 of pine BA on 15.30 acres (Table 3-3 and Figure 3-4). The 2010 Repair Existing Training Area Roads Project (PN 65557) would remove 3.08 ft^2 pine BA on 0.11 acre (Table 3-3 and Figure 3-4).

The post- project SMS foraging habitat totals were 3,231.63 ft^2 of pine BA on 54.18 acres of suitable habitat, 800.99 ft^2 of pine BA on 20.82 acres of potentially suitable habitat and 1,259.23 ft^2 of pine BA on 61.57 acres of future potential habitat (Table 3-2). This cluster will <u>not</u> be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 25.65% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,648.92 ft^2 of pine BA on 19.63 acres of suitable habitat, 542.02 ft^2 of pine BA on 8.13 acres of potentially suitable habitat and 3,505.86 ft^2 of pine BA on 120.35 acres of future potential habitat (Table 3-3). This partition may meet the RS in the future (Table 3-15).

FB Cluster O11-02R: This cluster was inactive from 2004 to 2007 but had a PBG in 2008 (Table 3-4). It contained 4 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 3,000.45 ft^2 of pine BA on 71.50 acres of suitable habitat and 269.54 ft^2 of pine BA on 19.83 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 1,231.20 ft^2 of pine BA on 25.65 acres of suitable habitat and 2,038.79 ft^2 of pine BA on 65.68 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Northern Training Area Infrastructure (PN 69742) will remove 593.01 ft^2 of pine BA on 14.93 acres (Table 3-5 and Figure 3-4).

The post- project SMS foraging habitat totals were 2,437.02 ft^2 of pine BA on 57.73 acres of suitable habitat and 239.96 ft^2 of pine BA on 18.67 acres of future potential habitat (Table 3-2). This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 11.69% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,113.12 ft^2 of pine BA on 23.19 acres of suitable habitat and 1,563.86 ft^2 of pine BA on 53.21 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition would not meet the RS in the future (Table 3-14).

FB Cluster O13-01: This cluster had a PBG in 2004, 2006, 2007 and 2008; it was inactive in 2005 (Table 3-4). It had 12 cavity trees in various stages of completion and suitability (Appendix G). The Repair of Existing Training Area Roads (Phase 1) (PN 65557) will impact 1 cavity tree within 50 feet, 4 cavity trees within 51 to 200 feet and will remove 1 inactive start tree (Table 3-9).

The pre- project SMS foraging habitat totals were 919.27 ft^2 of pine BA on 23.88 acres of suitable habitat, 1,342.12 ft^2 of pine BA on 36.31 acres of potentially suitable habitat and 1,171.03 ft^2 of pine BA on 56.29 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 3,432.42 ft^2 of pine BA on 116.48 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 154.10 ft^2 of pine BA on 8.44 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 860.36 ft^2 of pine BA on 22.35 acres of suitable habitat, 1,332.73 ft^2 of pine BA on 36.03 acres of potentially suitable habitat and 1,085.23 ft^2 of pine BA on 49.66 acres of future potential habitat (Table 3-2). This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 69.73% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 3,278.32 ft^2 of pine BA on 108.04 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

This cluster is currently monitored as a minimization effort for the DMPRC (FBCB, unpub. data).

FB Cluster O13-06R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 10 cavity trees in various stages of completion and suitability (Appendix G). The Construction of Paved Training Area Roads (PN 65554) will impact 1 cavity tree within 50 feet and 1 cavity tree within 51 to 200 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 2,636.57 ft^2 of pine BA on 70.05 acres of suitable habitat, 161.32 ft^2 of pine BA on 4.36 acres of potentially suitable habitat and 3,048.29 ft^2 of pine BA on 140.65 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 5,846.18 ft^2 of pine BA on 215.06 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2009 Construct Training Area Roads Project (PN 65554) will remove 514.98 ft^2 of pine BA on 18.43 acres (Table 3-5 and Figure 3-4).

The post- project SMS foraging habitat totals were 2,363.07 ft^2 of pine BA on 62.70 acres of suitable habitat, 161.32 ft^2 of pine BA on 4.36 acres of potentially suitable habitat and 2,806.81 ft^2 of pine BA on 129.57 acres of future potential habitat (Table 3-2). This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies

(Tables 3-2, 3-11, 3-12 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 61.38% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 5,331.20 ft^2 of pine BA on 196.63 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition can meet the RS in the future (Table 3-14).

FB Cluster O14-03R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 11 cavity trees in various stages of completion and suitability (Appendix G). The Repair of Existing Training Roads (Phase 1) (PN 65557) will impact 1 cavity tree within 50 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 6,662.22 ft^2 of pine BA on 155.48 acres of suitable habitat and 960.12 ft^2 of pine BA on 88.73 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 2,172.93 ft^2 of pine BA on 49.20 acres of suitable habitat, 597.43 ft^2 of pine BA on 10.39 acres of potentially suitable habitat and 4,851.98 ft^2 of pine BA on 184.62 acres of future potential habitat (Table 3-3).

The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 161.93 ft^2 of pine BA on 4.08 acres (Table 3-6 and Figure 3-4).

The post- project SMS foraging habitat totals were 6,517.52 ft^2 of pine BA on 152.28 acres of suitable habitat and 942.89 ft^2 of pine BA on 87.85 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 49.61% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 2,099.03 ft^2 of pine BA on 47.61 acres of suitable habitat, 597.43 ft^2 of pine BA on 10.39 acres of potentially suitable habitat and 4,763.95 ft^2 of pine BA on 182.13 acres of future potential habitat (Table 3-3). This partition can meet the RS in the future (Table 3-15).

This cluster was created on Fort Benning as compensation for the Incidental Take of Cluster N02-01 during the land exchange (see Sections 2.7.8 and 2.7.11) (JCA 2000).

FB Cluster O15-01: This cluster had a PBG from 2004 to 2008 (Table 3-4). It had 11 cavity trees in various stages of completion and suitability (Appendix G). Construction of the Northern Training Area Infrastructure (PN 69742) will impact 1 cavity tree within 51 to 200 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 1,209.95 ft^2 of pine BA on 33.21 acres of suitable habitat and 1,417.31 ft^2 of pine BA on 79.97 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 2,627.26 ft^2 of pine BA on 113.18 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2009 Northern Training Area Infrastructure (PN 69742) will remove 21.13 ft^2 of pine BA on 1.07 acres (Table 3-5 and Figure 3-4).

The post- project SMS foraging habitat totals were 1,209.95 ft^2 of pine BA on 33.21 acres of suitable habitat and 1,396.18 ft^2 of pine BA on 78.90 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 7.44% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 2,606.13 ft^2 of pine BA on 112.11 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

FB Cluster O15-03: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 11 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 2,506.61 ft^2 of pine BA on 67.91 acres of suitable habitat, 4.62 ft^2 of pine BA on 0.14 acre of potentially suitable habitat and 171.87 ft^2 of pine BA on 17.31 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 51.23 ft^2 of pine BA on 1.09 acres of suitable habitat and 2,631.87 ft^2 of pine BA on 84.27 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Northern Training Area Infrastructure (PN 69742) will remove 148.44 ft^2 of pine BA on 4.60 acres (Table 3-5 and Figure 3-4).

The post- project SMS foraging habitat totals were 2,403.31 ft^2 of pine BA on 65.08 acres of suitable habitat, 4.62 ft^2 of pine BA on 0.14 acre of potentially suitable habitat and 126.73 ft^2 of pine BA on 15.54 acres of future potential habitat (Table 3-2). This cluster will be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-10). Loblolly pine that is at high risk of decline accounts for 37.61% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 13.16 ft^2 of pine BA on 0.28 acre of suitable habitat and 2,521.50 ft^2 of pine BA on 80.48 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

FB Cluster Q02-02: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 11 cavity trees in various stages of completion and suitability (Appendix G). The Alternate 19D/K OSUT Training Area (PN 69741) will impact 3 cavity trees within 51 to 200 feet (Table 3-9).

The pre- project SMS foraging habitat totals were 2,369.62 ft^2 of pine BA on 62.88 acres of suitable habitat, 3,452.28 ft^2 of pine BA on 91.05 acres of potentially suitable habitat and 106.08 ft^2 of pine BA on 6.53 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 5,927.98 ft^2 of pine BA on 160.46 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2009 Good Hope Range Access Road (PN 69358) will remove 121.78 ft^2 of pine BA on 3.66 acres. The 2009 Alternate 19D/K OSUT Tank Trail Upgrade and Construction (PN 69741) will remove 1,769.56 ft^2 of pine BA on 48.35 acres (Table 3-5 and Figure 3-3).

The post- project SMS foraging habitat totals were 1,716.33 ft^2 of pine BA on 45.60 acres of suitable habitat, 2,214.23 ft^2 of pine BA on 58.13 acres of potentially suitable habitat and 106.08 ft^2 of pine BA on 4.72 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 56.07% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 4,036.64 ft^2 of pine BA on 108.45 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-15).

FB Cluster Q02-03: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 10 cavity trees in various stages of completion and suitability (Appendix G). The Alternate 19D/K OSUT Training Area (PN 69741) will impact 2 cavity trees within 50 feet, 4 cavity trees within 51 to 200 feet and will remove 2 active cavity trees and 1 inactive start tree (Table 3-9). These impacts and removals will likely result in "take" of the cluster by harassment (Table 3-11).

The pre- project SMS foraging habitat totals were 3,406.34 ft^2 of pine BA on 81.90 acres of suitable habitat, 6,391.18 ft^2 of pine BA on 139.99 acres of potentially suitable habitat and 136.59 ft^2 of pine BA on 20.04 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 9,934.11 ft^2 of pine BA on 241.93 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2009 Alternate 19D/K OSUT Training Area (PN 69741) will remove 3,765.43 ft^2 of pine BA on 93.28 acres (Table 3-5 and Figure 3-3).

The post- project SMS foraging habitat totals were 2,268.82 ft^2 of pine BA on 55.11 acres of suitable habitat, 3,839.62 ft^2 of pine BA on 87.12 acres of potentially suitable habitat and 60.24 ft^2 of pine BA on 6.42 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 47.67% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 6,168.68 ft^2 of pine BA on 148.65 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition may meet the RS in the future (Table 3-15).

FB Cluster Q02-04R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 6 cavity trees in various stages of completion and suitability (Appendix G). The Alternate 19D/K OSUT Training Area (PN 69741) will impact 1 cavity tree within 50 feet, 3 cavity trees within 51 to 200 feet and will remove 1 active start tree (Table 3-9).

The pre- project SMS foraging habitat totals were 3,215.34 ft^2 of pine BA on 90.86 acres of suitable habitat, 2,023.83 ft^2 of pine BA on 45.58 acres of potentially suitable habitat and 108.60 ft^2 of pine BA on 79.50 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 5,347.77 ft^2 of pine BA on 215.94 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2009 Alternate 19D/K OSUT Training Area (PN 69741) will remove 2,373.22 ft^2 of pine BA on 99.85 acres. The 2009 Good Hope Maneuver Heavy Use Area (PN 69668) will remove 265.46 ft^2 of pine BA on 6.14 acres. The Good Hope Training Area Infrastructure will remove 215.74 ft^2 of pine BA on 5.35 acres (Table 3-5 and Figure 3-3). As a result of project impacts, 1,198.08 ft^2 of pine BA on 35.06 acres will be non-contiguous and cannot be counted towards the available foraging habitat for the partition (Table 3-2).

The post- project SMS foraging habitat totals were 734.54 ft^2 of pine BA on 20.56 acres of suitable habitat, 534.53 ft^2 of pine BA on 12.74 acres of potentially suitable habitat and 26.20 ft^2 of pine BA on 36.24 acres of future potential habitat (Table 3-2). This cluster will be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 81.98% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,295.27 ft^2 of pine BA on 69.54 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This partition cannot meet the RS in the future (Table 3-14).

FB Cluster R02-01R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 6 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 3,588.13 ft^2 of pine BA on 89.70 acres of suitable habitat, 817.57 ft^2 of pine BA on 11.04 acres of potentially suitable habitat and 1,845.25 ft^2 of pine BA on 83.41 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 1,066.36 ft^2 of pine BA on 19.81 acres of suitable habitat, 926.72 ft^2 of pine BA on 15.25 acres of potentially suitable habitat and 4,257.87 ft^2 of pine BA on 149.09 acres of future potential habitat (Table 3-3).

The 2009 Infrastructure Support Project (PN 67457) will remove 189.16 ft^2 of pine BA on 3.91 acres. The 2009 Tracked Vehicle Drivers Course Access Road (PN 64797) will remove 172.38 ft^2 of pine BA on 6.11 acres. The 2009 Construct Training Area Roads Project (PN 65554) will remove 179.73 ft^2 of pine BA on 4.87 acres. The 2009 Vehicle Recovery Course (PN 72017) will remove 774.94 ft^2 of pine BA on 21.21 acres (Table 3-5 and Figure 3-3). As a result of project impacts, 364.11 ft^2 of pine BA on 13.74 acres will be non-contiguous and cannot be counted towards the available foraging habitat for the partition (Table 3-2).

The post- project SMS foraging habitat totals were 2,720.17 ft^2 of pine BA on 64.91 acres of suitable habitat, 560.90 ft^2 of pine BA on 7.49 acres of potentially suitable habitat and 1,289.56 ft^2 of pine BA on 61.91 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11, 3-12 and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 20.22% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 995.63 ft^2 of pine BA on 18.58 acres of suitable habitat, 560.90 ft^2 of pine BA on 7.49 acres of potentially suitable habitat and 3,014.10 ft^2 of pine BA on 108.24 acres of future potential habitat (Table 3-3). This partition may meet the RS in the future (Table 3-14).

This cluster was analyzed and "taken" by Transformation projects, but project impacts within this partition have been reanalyzed by MCOE Projects.

FB Cluster S01-01: This cluster had a PBG from 2004 to 2008 (Table 3-4). It contained 8 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 2,535.58 ft^2 of pine BA on 66.61 acres of suitable habitat and 2,318.25 ft^2 of pine BA on 60.62 acres of potentially suitable habitat (Table 3-2). There was no future potential habitat.

The pre- project RS foraging habitat totals were 186.18 ft^2 of pine BA on 3.48 acres of suitable habitat and 4,667.65 ft^2 of pine BA on 123.75 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Good Hope MTA Range Access Road (PN 69358) will remove 33.24 ft^2 of pine BA on 0.80 acre (Table 3-5 and Figure 3-3).

The post- project SMS foraging habitat totals were 2,502.34 ft^2 of pine BA on 65.81 acres of suitable habitat and 2,318.25 ft^2 of pine BA on 60.62 acres of potentially suitable habitat (Table 3-2). There was no future potential habitat. This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 33.41% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 177.62 ft^2 of pine BA on 3.32 acres of suitable habitat and 4,642.97 ft^2 of pine BA on 123.11 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat. This partition may meet the RS in the future (Table 3-15).

FB Cluster S02-01R: This cluster had a PBG from 2004 to 2008 (Table 3-4) and contained 13 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 5,794.52 ft^2 of pine BA on 117.81 acres of suitable habitat, 107.03 ft^2 of pine BA on 2.78 acres of potentially suitable habitat and 765.95 ft^2 of pine BA on 45.52 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 3,507.58 ft^2 of pine BA on 60.62 acres of suitable habitat and 3,159.92 ft^2 of pine BA on 105.49 acres of future potential habitat (Table 3-3). There was no potentially suitable habitat.

The 2009 Good Hope MTA Range Access Road (PN 69358) will remove 286.32 ft^2 of pine BA on 6.80 acres. The 2009 Infrastructure Support Project (PN 67457) will remove 13.86 ft^2 of pine BA on 0.99 acre (Table 3-5 and Figure 3-3).

The post- project SMS foraging habitat totals were 5,508.20 ft^2 of pine BA on 111.01 acres of suitable habitat, 107.03 ft^2 of pine BA on 2.78 acres of potentially suitable habitat and 752.09 ft^2 of pine BA on 44.53 acres of future potential habitat (Table 3-2). This cluster will not be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 35.21% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 3,507.58 ft^2 of pine BA on 60.62 acres of suitable habitat and 2,859.74 ft^2 of pine BA on 97.70 acres of future potential habitat (Table 3-

3). There was no potentially suitable habitat. This partition can meet the RS in the future (Table 3-15).

FB Cluster S03-01R: This cluster was inactive from 2005 to 2006 and had a PBG from 2007 to 2008 (Table 3-4). It had 4 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 78.47 ft^2 of pine BA on 1.18 acre of suitable habitat, 1,698.15 ft^2 of pine BA on 44.96 acres of potentially suitable habitat and 2,649.28 ft^2 of pine BA on 100.03 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 78.47 ft^2 of pine BA on 1.18 acre of suitable habitat, 179.74 ft^2 of pine BA on 4.18 acres of potentially suitable habitat and 4,167.69 ft^2 of pine BA on 140.81 acres of future potential habitat (Table 3-3).

The 2009 Infrastructure Support Project (PN 67457) will remove 51.60 ft^2 of pine BA on 1.20 acres (Table 3-5 and Figure 3-3). The 2010 Repair Existing Training Area Roads Project (PN 65557) will remove 124.28 ft^2 of pine BA on 4.02 acres (Table 3-6 and Figure 3-3).

The post- project SMS foraging habitat totals were 78.47 ft^2 of pine BA on 1.18 acre of suitable habitat, 1,606.99 ft^2 of pine BA on 42.84 acres of potentially suitable habitat and 2,564.56 ft^2 of pine BA on 96.93 acres of future potential habitat (Table 3-2). This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 33.37% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 78.47 ft^2 of pine BA on 1.18 acres of suitable habitat, 88.58 ft^2 of pine BA on 2.06 acres of potentially suitable habitat and 4,082.97 ft^2 of pine BA on 137.71 acres of future potential habitat (Table 3-3). This partition may meet the RS in the future (Table 3-14).

FB Cluster SHC-02: This cluster had a PBG from 2004 to 2006 and had a solitary male from 2007 to 2008. It had 7 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 1,106.07 ft^2 of pine BA on 26.49 acres of suitable habitat, 5,189.46 ft^2 of pine BA on 127.21 acres of potentially suitable habitat and 1,457.37 ft^2 of pine BA on 59.13 acres of future potential habitat (Table 3-2).

The pre- project RS foraging habitat totals were 1,564.34 ft^2 of pine BA on 36.38 acres of potentially suitable habitat and 6,188.56 ft^2 of pine BA on 176.45 acres of future potential habitat (Table 3-3). There was no suitable habitat.

The 2010 Classrooms with Dual BN Dining Facilities (GTA) (PN 69150) will remove 17.85 ft^2 of pine BA on 0.60 acre. The 2010 Classrooms with BN Dining Facilities (GTA) (PN 70027/72457) will remove 28.34 ft^2 of pine BA on 1.09 acre (Table 3-6 and Figure 3-3). The 2012 Sand Hill Recreation Centers (PN 65246) will remove 44.77 ft^2 of pine BA on 1.89 acre. The 2012 Training Barracks Complex (GTA) (PN 69745) will remove 2.21 ft^2 of pine BA on 0.07 acre (Table 3-8 and Figure 3-3).

The post- project SMS foraging habitat totals were 1,106.07 ft^2 of pine BA on 26.49 acres of suitable habitat, 5,173.06 ft^2 of pine BA on 126.69 acres of potentially suitable habitat and 1,380.60 ft^2 of pine BA on 56.00 acres of future potential habitat (Table 3-2). This cluster will <u>not</u> be taken at the cluster level due to loss of foraging habitat (Tables 3-2, 3-11and Figure 3-12). Loblolly pine that is at high risk of decline accounts for 49.86% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 1,564.34 ft^2 of pine BA on 36.38 acres of potentially suitable habitat and 6,095.39 ft^2 of pine BA on 172.80 acres of future potential habitat (Table 3-3). There was no suitable habitat. This partition can meet the RS in the future (Table 3-15).

This partition <u>will</u> be taken at the group level due to the decrease in cluster density within 1.25 miles of its cluster center (Tables 3-11, 3-16 and Figure 3-9).

This cluster was analyzed and "taken" by Transformation projects, but project impacts within this partition have been reanalyzed by MCOE Projects.

<u>FB Cluster T02-01</u>: This cluster was inactive from 2004 to 2005, had a solitary male in 2006 and had a PBG from 2007 to 2008 (Table 3-4). It had 4 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 1,068.36 ft^2 of pine BA on 29.27 acres of suitable habitat and 3,004.79 ft^2 of pine BA on 145.33 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat.

The pre- project RS foraging habitat totals were 4,073.15 ft^2 of pine BA on 174.60 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat.

The 2009 Construct Training Area Roads Project (PN 65554) will remove 200.17 ft^2 of pine BA on 6.65 acres (Table 3-5 and Figure 3-3).

The post- project SMS foraging habitat totals were 883.30 ft^2 of pine BA on 24.20 acres of suitable habitat and 2,989.68 ft^2 of pine BA on 143.75 acres of future potential habitat (Table 3-2). There was no potentially suitable habitat. This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 96.45% of the SMS post- project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 3,872.98 ft^2 of pine BA on 167.95 acres of future potential habitat (Table 3-3). There was no suitable or potentially suitable habitat. This cluster can meet the RS in the future (Table 3-14).

This cluster was analyzed and "taken" by Transformation projects, but project impacts within this partition have been reanalyzed by MCOE Projects.

FB Cluster T02-02R: This cluster had a PBG from 2005 to 2008; it was captured by J02-02 in 2004 (Table 3-4). It had 9 cavity trees in various stages of completion and suitability (Appendix G). No cavity trees will be impacted or taken by Alternative B MCOE projects.

The pre- project SMS foraging habitat totals were 2,746.15 ft^2 of pine BA on 57.73 acres of potentially suitable habitat and 1,690.53 ft^2 of pine BA on 103.06 acres of future potential habitat (Table 3-2). There was no suitable habitat.

The pre- project RS foraging habitat totals were 2,494.80 ft^2 of pine BA on 50.40 acres of potentially suitable habitat and 1,941.88 ft^2 of pine BA on 110.39 acres of future potential habitat (Table 3-3). There was no suitable habitat.

The 2012 Rail Loading Facility Expansion (PN 62953) will remove 376.70 ft^2 of pine BA on 7.61 acres (Table 3-8 and Figure 3-3).

The post- project SMS foraging habitat totals were 2,369.45 ft^2 of pine BA on 50.12 acres of potentially suitable habitat and 1,690.53 ft^2 of pine BA on 103.06 acres of future potential habitat (Table 3-2). There was no suitable habitat. This cluster will be taken at the cluster level due to loss of foraging habitat and pre-project habitat deficiencies (Tables 3-2, 3-11, 3-12 and Figure 3-9). Loblolly pine that is at high risk of decline accounts for 80.82% of the SMS post-project suitable and potentially suitable acreage (Table 3-13).

The post- project RS foraging habitat totals were 2,118.10 ft^2 of pine BA on 42.79 acres of potentially suitable habitat and 1,941.88 ft^2 of pine BA on 110.39 acres of future potential habitat (Table 3-3). There was no suitable habitat. This cluster can meet the RS in the future (Table 3-14).

3.8.2 GROUP LEVEL ANALYSES

The Group Level Analysis evaluates density effects to clusters directly impacted by the proposed Alternative B MCOE projects, but not "taken" at the cluster level. Eight clusters (A20-04, K11-02, K13-06, L02-02R, O07-01R, O07-03R, O09-02 and SHC-02) were considered "taken" due to project related group density reduction around the subject clusters (Tables 3-11, 3-16 and Figure 3-14).

A20-04. This cluster's group density remained the same: 1 active cluster both pre- and post-project.

K11-02. This cluster's group density will be reduced from 2 active clusters to 1 cluster within 1.25 mile.

K13-06. This cluster's group density will be reduced from 3 active clusters to 1 cluster within 1.25 mile.

L02-02R. This cluster's group density will be reduced from 2 active clusters to 1 cluster within 1.25 miles.

O07-01R. This cluster's group density remained the same: 1 active cluster both pre- and post-project.

O07-03R. This cluster's group density will be reduced from 2 active clusters to 1 cluster within 1.25 miles.

O09-02. This cluster's group density will be reduced from 4 active clusters within 1.25 miles to 1 cluster within 1.25 miles.

Table 3-16. Pre- and post- project densities of red-cockaded woodpecker (RCW) clusters within 1.25 miles of clusters impacted by **Alternative B** MCOE projects, Fort Benning, Georgia.

	Pre- Project		Post- Project		Cluster Level Take (Y/N)	Group Level Take (Y/N)
Southern Ranges	# Active Clusters within 1.25 Miles	Density Rating	# Active Clusters within 1.25 Miles	Density Rating		
A14-03R	11	dense	4	moderate	Y	N/A
A17-01	14	dense	4	moderate	Y	N/A
A17-02	11	dense	0	N/A	Y	N/A
A17-03	17	dense	6	dense	Y	N/A
A17-04	15	dense	6	dense	N	N
A17-05	13	dense	8	dense	Y	N/A
A17-06	11	dense	1	sparse	Y	N/A
A17-07	13	dense	4	moderate	Y	N/A
A17-08	12	dense	1	sparse	Y	N/A
A17-11R	8	dense	0	N/A	Y	N/A
A17-12R	6	dense	1	sparse	Y	N/A
A17-13	16	dense	4	moderate	Y	N/A
A17-14a	20	dense	10	dense	Y	N/A
A17-14b	21	dense	11	dense	Y	N/A
Average density =	**13.43**		**4.29**			
Cantonment						
A06-01	6	dense	4	moderate	N	N
A07-01	5	dense	4	moderate	Y	N/A
A08-01	11	dense	10	dense	N	N
A08-02a	8	dense	7	dense	N	N
A08-03	8	dense	8	dense	N	N
A08-04	7	dense	7	dense	N	N
A09-03R	6	dense	4	moderate	N	N
A09-04R	7	dense	7	dense	N	N
A09-05	10	dense	9	dense	N	N
A20-04	1	sparse	1	sparse	N	Y
A20-06	8	dense	5	dense	N	N
BB03-01R	3	moderate	2	sparse	Y	N/A
BB04-01R	6	dense	3	moderate	N	N
BB05-01R	5	dense	3	moderate	N	N

Density rating: ≥ 4.7 active clusters within 1.25 miles = dense
2.6 - 4.6 active clusters within 1.25 miles = moderate
≤ 2.5 active clusters within 1.25 miles = sparse

N/A = If subject cluster was "taken" at cluster level, it was not considered for "take" at group level.

Table 3-16 (cont.). Pre- and post- project densities of red-cockaded woodpecker (RCW) clusters within 1.25 miles of clusters impacted by MCOE projects, **Alternative B**, Fort Benning, Georgia.

	Pre- Project		Post- Project		Cluster Level Take (Y/N)	Group Level Take (Y/N)
Cantonment (cont.)	# Active Clusters within 1.25 Miles	Density Rating	# Active Clusters within 1.25 Miles	Density Rating		
C01-02	10	dense	7	dense	N	N
C01-03	10	dense	8	dense	N	N
C01-06	9	dense	8	dense	N	N
C02-02	6	dense	5	dense	N	N
HCC-08R	8	dense	6	dense	N	N
HCC-10R	6	dense	5	dense	Y	N/A
HCC-11R	7	dense	5	dense	Y	N/A
J01-02R	7	dense	5	dense	Y	N/A
J02-02R	9	dense	5	dense	Y	N/A
KPR-01	11	dense	11	dense	N	N
Q02-02	8	dense	6	dense	N	N
Q02-03	8	dense	7	dense	Y	N/A
Q02-04R	4	moderate	3	moderate	Y	N/A
R02-01R	5	dense	2	sparse	Y	N/A
S01-01	8	dense	6	dense	N	N
S02-01R	9	dense	6	dense	N	N
S03-01R	9	dense	8	dense	Y	N/A
SHC-02	0	N/A	0	N/A	N	Y
T02-01	12	dense	9	dense	Y	N/A
T02-02R	9	dense	6	dense	Y	N/A
Average density =	**7.24**		**5.65**			
Southern Maneuver Corridor						
D05-02R	7	dense	4	moderate	N	N
D05-04R	11	dense	9	dense	N	N
D06-01R	7	dense	4	moderate	Y	N/A
D08-01R	0	N/A	0	N/A	Y	N/A
D10-01	8	dense	2	sparse	Y	N/A
D11-01	10	dense	5	dense	Y	N/A
D11-02	10	dense	7	dense	Y	N/A
D12-01	11	dense	5	dense	N	N

Density rating: ≥ 4.7 active clusters within 1.25 miles = dense
2.6 - 4.6 active clusters within 1.25 miles = moderate
≤ 2.5 active clusters within 1.25 miles = sparse

N/A = If subject cluster was "taken" at cluster level, it was not considered for "take" at group level.

Table 3-16 (cont.). Pre- and post- project densities of red-cockaded woodpecker (RCW) clusters within 1.25 miles of clusters impacted by MCOE projects, **Alternative B**, Fort Benning, Georgia.

	Pre- Project		**Post- Project**		Cluster Level Take (Y/N)	Group Level Take (Y/N)
Southern Maneuver Corridor (cont.)	# Active Clusters within 1.25 Miles	Density Rating	# Active Clusters within 1.25 Miles	Density Rating		
D16-01	8	dense	3	moderate	Y	N/A
D16-02	6	dense	0	N/A	Y	N/A
D17-01	4	moderate	0	N/A	Y	N/A
D17-03	8	dense	2	sparse	Y	N/A
D17-04R	9	dense	3	moderate	Y	N/A
E02-01	14	dense	14	dense	N	N
E04-01	12	dense	10	dense	Y	N/A
F02-01R	6	dense	5	dense	Y	N/A
J06-03	13	dense	10	dense	N	N
K21-02R	4	moderate	4	moderate	N	N
K21-05R	6	dense	5	dense	N	N
Average density =	**8.11**		**4.84**			
Northern Maneuver Corridor and Northern Ranges						
K02-01	5	dense	3	moderate	Y	N/A
L02-02R	2	sparse	1	sparse	N	Y
L03-01	2	sparse	2	sparse	Y	N/A
M01-01	9	dense	8	dense	Y	N/A
M08-01	4	moderate	3	moderate	Y	N/A
M08-02a	8	dense	5	dense	N	N
M08-02b	7	dense	6	dense	Y	N/A
M08-04R	9	dense	7	dense	N	N
M08-05R	11	dense	6	dense	N	N
N01-02	4	moderate	4	moderate	N	N
O01-01	12	dense	7	dense	N	N
O01-02	10	dense	7	dense	Y	N/A
O01-03	10	dense	6	dense	N	N
O01-04R	11	dense	6	dense	N	N
O02-01R	10	dense	8	dense	N	N
O03-01	10	dense	7	dense	Y	N/A

Density rating: ≥ 4.7 active clusters within 1.25 miles = dense
2.6 - 4.6 active clusters within 1.25 miles = moderate
≤ 2.5 active clusters within 1.25 miles = sparse

N/A = If subject cluster was "taken" at cluster level, it was not considered for "take" at group level.

Table 3-16 (cont.). Pre- and post- project densities of red-cockaded woodpecker (RCW) clusters within 1.25 miles of clusters impacted by MCOE projects, **Alternative B**, Fort Benning, Georgia.

Northern Maneuver Corridor and Northern Ranges (cont.)	**Pre- Project**		**Post- Project**		Cluster Level Take (Y/N)	Group Level Take (Y/N)
	# Active Clusters within 1.25 Miles	Density Rating	# Active Clusters within 1.25 Miles	Density Rating		
O03-02	8	dense	6	dense	N	N
O03-03	10	dense	4	moderate	Y	N/A
O03-04	14	dense	8	dense	Y	N/A
O03-05	9	dense	8	dense	N	N
O03-06R	10	dense	5	dense	N	N
O03-07	10	dense	5	dense	N	N
O04-01	9	dense	5	dense	Y	N/A
O04-03a	10	dense	5	dense	Y	N/A
O04-03b	10	dense	5	dense	Y	N/A
O05-01	5	dense	4	moderate	N	N
O05-02	8	dense	6	dense	Y	N/A
O05-03R	7	dense	4	moderate	N	N
O07-01R	1	sparse	1	sparse	N	Y
O07-03R	2	sparse	1	sparse	N	Y
O08-01	3	moderate	2	moderate	Y	N/A
O08-02	4	moderate	1	sparse	Y	N/A
O09-02	4	moderate	1	sparse	N	Y
O10-01	8	dense	5	dense	N	N
O10-02	8	dense	6	dense	Y	N/A
O10-03	6	dense	4	moderate	N	N
O10-04	9	dense	6	dense	N	N
O11-01	10	dense	5	dense	N	N
O11-02	13	dense	8	dense	Y	N/A
O13-01	6	dense	5	dense	Y	N/A
O13-06R	6	dense	5	dense	Y	N/A
O14-03R	8	dense	6	dense	N	N
O15-01	11	dense	9	dense	Y	N/A
O15-03	11	dense	7	dense	Y	N/A
Average density =	**7.82**		**5.07**			

Density rating: ≥ 4.7 active clusters within 1.25 miles = dense
2.6 - 4.6 active clusters within 1.25 miles = moderate
≤ 2.5 active clusters within 1.25 miles = sparse

N/A = If subject cluster was "taken" at cluster level, it was not considered for "take" at group level.

Table 3-16 (cont.). Pre- and post- project densities of red-cockaded woodpecker (RCW) clusters within 1.25 miles of clusters impacted by MCOE projects, **Alternative B**, Fort Benning, Georgia.

Multipurpose Training Range and Associated Roads	**Pre- Project**		**Post- Project**		Cluster Level Take (Y/N)	Group Level Take (Y/N)
	# Active Clusters within 1.25 Miles	Density Rating	# Active Clusters within 1.25 Miles	Density Rating		
K08-03	7	dense	6	dense	N	N
K08-04	8	dense	7	dense	N	N
K09-01	9	dense	7	dense	N	N
K09-02R	7	dense	5	dense	N	N
K09-03R	4	moderate	3	moderate	N	N
K11-02	2	sparse	1	sparse	N	Y
K11-04R	3	moderate	3	moderate	Y	N/A
K12-01	1	sparse	1	sparse	Y	N/A
K13-02	8	dense	6	dense	Y	N/A
K13-04	5	dense	3	moderate	Y	N/A
K13-05R	9	dense	7	dense	Y	N/A
K13-06	3	moderate	1	sparse	N	Y
Average density =	**5.50**		**4.17**			

Density rating: ≥ 4.7 active clusters within 1.25 miles = dense
2.6 - 4.6 active clusters within 1.25 miles = moderate
≤ 2.5 active clusters within 1.25 miles = sparse

N/A = If subject cluster was "taken" at cluster level, it was not considered for "take" at group level.

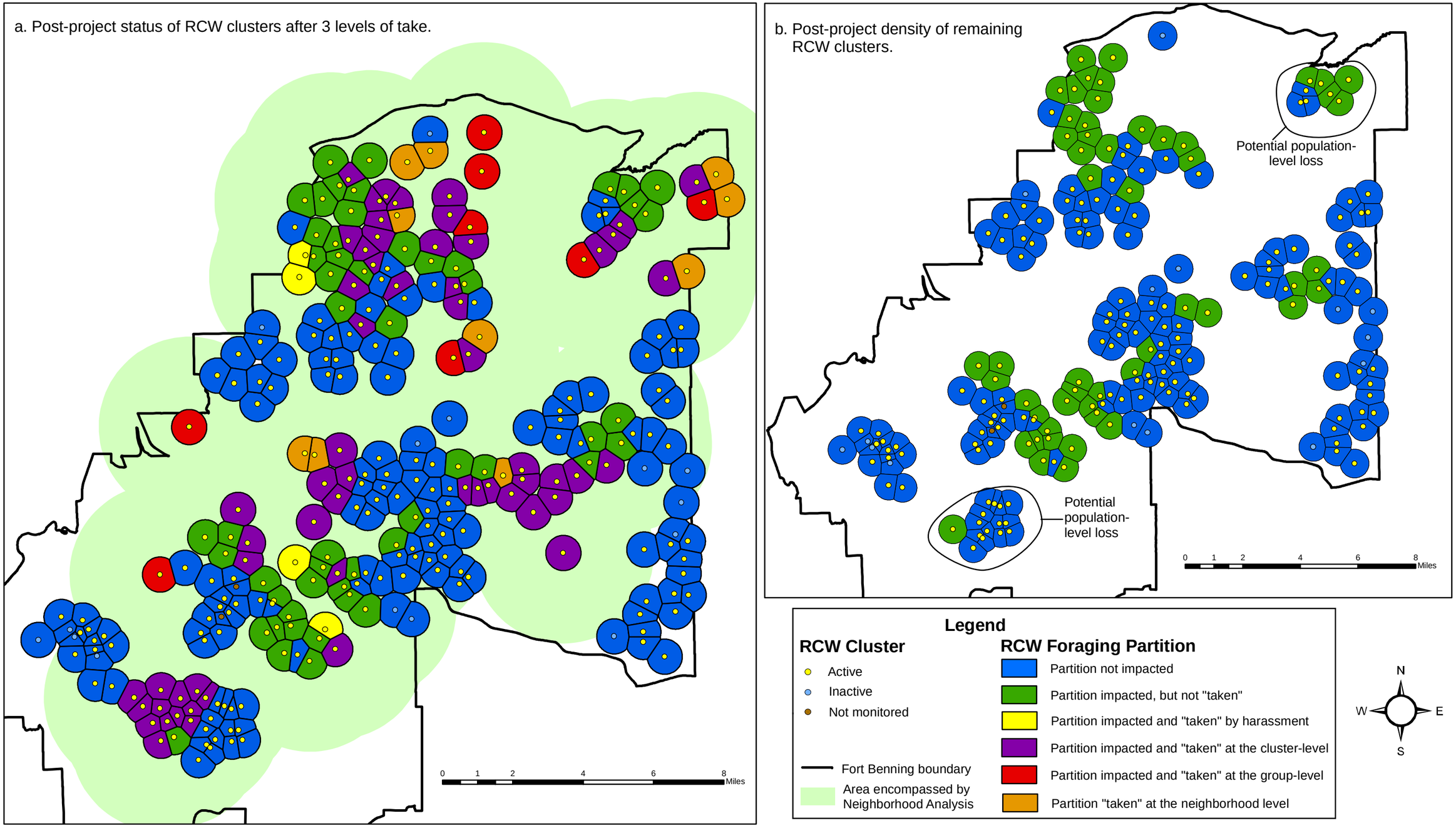


Figure 3-14. (a.) Post-project status of red-cockaded woodpecker (RCW) clusters after cluster, group (1.25 mile radius) and neighborhood (2.57 radius) analyses and (b.) post-project density of RCW clusters, Alternative B, Fort Benning, Georgia.

SHC -02. This cluster had 0 active clusters within 1.25 miles pre-project. Habitat between it and the nearest active cluster (U05-02) will become more fragmented as a result of cantonment area projects; therefore, it will be more at risk of cluster abandonment due to the proposed action.

3.8.3 NEIGHBORHOOD LEVEL ANALYSES

The Neighborhood Level Analysis evaluates indirect group density impacts to clusters not directly impacted by Alternative B MCOE projects within a 2.57 mile radius "Neighborhood" (see Section 5.5 of the MCOE Biological Assessment). Ten clusters (D11-03R, J01-01, J01-03R, K10-01R, K11-03, K14-01R, O04-02, O06-03R, O06-04R and O12-02) were considered "taken" due to project-related neighborhood level impacts for Alternative B projects (Table 3-11 and Figure 3-14). Cluster O12-02 was "taken" under Alternative B only.

3.8.4 POPULATION LEVEL ANALYSIS

The Population Level Analysis considers the ability of Fort Benning to meet its RCW population goal (351 PBGs in 421 total managed clusters) post-project.

3.8.4.1 RCW Impacts

Post-project, 81 of the 123 analyzed active RCW clusters would be directly or indirectly "taken" by the MCOE projects under Alternative B as a result of foraging habitat loss (58), cavity tree removal (1), harassment (4), Group Level impacts (8) and/ or Neighborhood Level impacts (10) (Table 3-11). Seventy-eight of the 81 "taken" clusters were inhabited by PBGs, therefore the proposed action would reduce the number of PBGs from 271 to 193.

In addition, 9 impacted (but not directly "taken") clusters would have less than 120 acres of manageable habitat and would be unable to meet the RS in the future. Twenty other impacted clusters would have between 120 and 150 acres of habitat and may or may not be able to meet the RS depending on local site conditions and management regime (Table 3-15).

Due to project redesigns, impacts to 22 of those clusters "taken" by Transformation projects were reanalyzed in this Biological Assessment. Transformation projects resulting in 10 "takes" were not reanalyzed and must be added to the total impacts from this MCOE action in order to assess the cumulative effects of both actions on the Fort Benning RCW population.

Therefore, the total number of RCW "takes" resulting from the Transformation and the proposed MCOE actions is 91.

Dudded Impact Area Clusters. RCW clusters in the forested, Dudded Impact Areas which are not accessible for management cannot be counted toward the Installation recovery goal (DA 1996, 2007) at this time. However, it is generally recognized that such areas, particularly the A20 Impact Area, are populated by RCW groups and provide important foraging and dispersal habitat, as well as being a source of juvenile RCWs. Therefore, introduced or increased impacts to habitat in these areas could directly and indirectly impact the overall health and stability of the Fort Benning RCW population. The beaten areas for the proposed MPMG1 and MPMG2 ranges would result in the loss of cavity trees and foraging habitat in the following unmanaged clusters, based on current available data: A20-09 (10 of 10 cavity trees), A20-17 (4 of 4 cavity trees), A20-19 (6 of 10 cavity trees), A20-20 (8 of 8 cavity trees), A20-21 (6 of 6 cavity trees), A20-22 (1 of 1 cavity tree), A20-42 (9 of 10 cavity trees) and A20-43 (15 of 15 cavity trees). Up to 415.92 acres of foraging habitat (based on stand data provided by FBLMB) would be lost as a result of the beaten areas associated with these 2 ranges.

3.8.4.2 Habitat Loss and Fragmentation

Research has shown that the more aggregated RCW clusters are, the higher the probability of persistence, even with considerable foraging habitat loss (Hooper and Lennartz 1995). Therefore, the area with the greatest aggregation of clusters would be considered to be the most stable. Pre-project, these areas on Fort Benning are within and around the A20 Impact Area in the southwest, northeast of Ochillee Creek around Hourglass Road in the center of the Installation and in the Oscar compartments in the northwestern corner of the Installation. Under Alternative B there would be substantial reductions in cluster density around the Oscar complex, around the A20 Impact Area, in the Northern Maneuver Area and in the Southern Maneuver Area (Figure 3-14). There would still be densely aggregated clusters post-project along Ochillee Creek, although density would be reduced. Maintaining areas with high cluster density is crucial to ensure that the RCW population remains stable enough to survive and reach recovery.

The proposed action would create several large openings, the largest being the MPMG1 and MPMG2 ranges (±1,215.05 acres (including forested habitat within the A20 Impact Area), averaging 1.59 by 2.38 mi.), ST2 (±562.63 acres, averaging 1.97 by 1.38 mi.), MPTR (±875.88

acres, averaging 0.97 by 3.30 mi.) and the Southern Maneuver Area (±3,035.86 acres, 4.39 by 1.47 mi.). While these openings would be substantial and RCWs are unlikely to cross them directly on a regular basis, sufficient dispersal corridors would remain so that adjoining habitats would not be permanently isolated as a result of the proposed action.

Cluster SHC-02 (active), as well as the remaining habitat in the Sand Hill area, is currently somewhat isolated and would become more so with the proposed action (Figure 3-3). As young pine plantations mature, this area could become contiguous habitat and count towards the needed recovery acreage. This habitat, however, is already a challenge to manage due to its proximity to barracks and other buildings on Post, as well as a large, dense residential development just off-Post in Columbus. Currently, there are only a few weeks a year when the area is vacant and FBLMB is allowed to burn. With the amount of development proposed in Sand Hill, this area may never contribute to recovery.

Stands in the proposed Good Hope Maneuver Area are currently too young to provide a dispersal corridor between clusters south of the A20 Impact Area with clusters east of the Impact Area and US Hwy. 27-280. The Impact Area currently provides the most valuable link between RCWs to the south and west with the remainder of the Fort Benning population, however much of it would be impacted by the proposed MPMGs. Several cooperating agencies have a mutual interest in preserving potential RCW habitat between Fort Benning and Enon and Sehoy Plantations. Clearing for the MPMGs would significantly reduce the likelihood of RCWs successfully dispersing to the west. Retention of the remaining active clusters south and west of the A20 Impact Area would be crucial in order to eventually establish a viable subpopulation in the AL portion of the Installation.

Clusters in the southeastern corner of the Installation (e.g., Compartments H1, G5 and/ or F4) are also somewhat isolated from clusters to the west by large, young pine plantations. Maneuver training in the proposed Southern Maneuver Area is not expected to worsen this situation. In time, the young plantations can serve as a dispersal corridor to link these clusters with clusters to the west.

There are 2 groups of clusters that would become vulnerable to demographic stochasticity resulting from habitat loss, reduction of cluster density and isolation from the proposed action: a group of 8 clusters in the northeastern corner of the Installation and a group of 10 clusters in the southwest, south of the A20 Impact Area (Figure 3-14). Research on small populations suggests

that a minimum of 10 clusters, maximally aggregated, is necessary to keep small numbers of clusters demographically viable (Crowder et al. 1998, Walters et al. 2002). Based on this research, the aggregate of clusters in the southwest may persist over time. In addition, it is possible that habitat management and pine planting around the existing IPBC range can connect these clusters with the active RCW clusters in Harmony Church in the future. However, the clusters in the northeast may become unstable or inactive over time due to isolation and their location beyond the average RCW dispersal distance (2.57 miles) from other active RCW clusters not adversely affected by the proposed action. Post-MCOE, the nearest active cluster to any of the 8 remaining clusters in the northeastern corner would be 3.4 miles away (Cluster K09-02R to K17-05R). It would be difficult to reestablish a link between these clusters and the remainder of the population because of their location between Upatoi and Kings Mill Creeks, the K15 Impact Area, the DMPRC and the Installation boundary, and considering habitat removal by the MPTR. This could result in permanent isolation of 3,089 acres of habitat.

3.8.4.3 Population Recovery and Habitat Restoration

Approximately 73,530 acres of managed pine stands would remain post-project, of which 65,934 acres are potentially contiguous pine habitat (Table 3-17 and Figure 3-15). This total includes all available pine habitat, regardless of its current condition. Approximately 19,732 acres of the contiguous habitat are in loblolly or shortleaf pine stands undergoing, or highly susceptible to, pine decline. As discussed above, 3,089 acres of habitat and 8 clusters in the northeastern corner of the Installation may be permanently isolated.

Based on average percentages of clusters inhabited by PBGs, solitary males, captured sites and inactive sites, Fort Benning currently needs to manage 421 clusters in order to have 351 PBGs and reach its Recovery Goal. However, the total number of clusters needed may increase if part of the RCW population becomes permanently isolated due to habitat fragmentation and/ or there is a decrease in the proportion of clusters inhabited by PBGs.

At recovery, clusters are managed to contain a minimum of 150 acres of good quality foraging habitat meeting all of the Recovery Standard criteria listed in Section 3.1.8 of the MCOE Biological Assessment (USFWS 2003a). While it may be possible for 100% of the habitat within some clusters to meet the Recovery Standard (thereby requiring only 120 total acres of pine habitat at recovery), it is more likely that, even using single-tree selection and

Table 3-17. Removals and remaining acreage of all contiguous pine and pine- hardwood habitat (potential RCW habitat, current and future), Alternative B Maneuver Center of Excellence, Fort Benning, Georgia.

Pine and pine- hardwood habitat removals and post-project totals:	
	Alternative B (Acres)
Pre- project Forested Pine Habitat[1]	86,945
Total Foraging Habitat Removal	13,415
Post-project Forested Pine Habitat	73,530
TOTAL POST- PROJECT CONTIGUOUS HABITAT[2]	**65,934**
Average acres/ 421 clusters	**156 acres/ cluster**

[1] Includes Transformation projects not being reanalyzed.

[2] Total could increase as Fort Benning identifies hardwood-dominated stands to convert to longleaf pine.

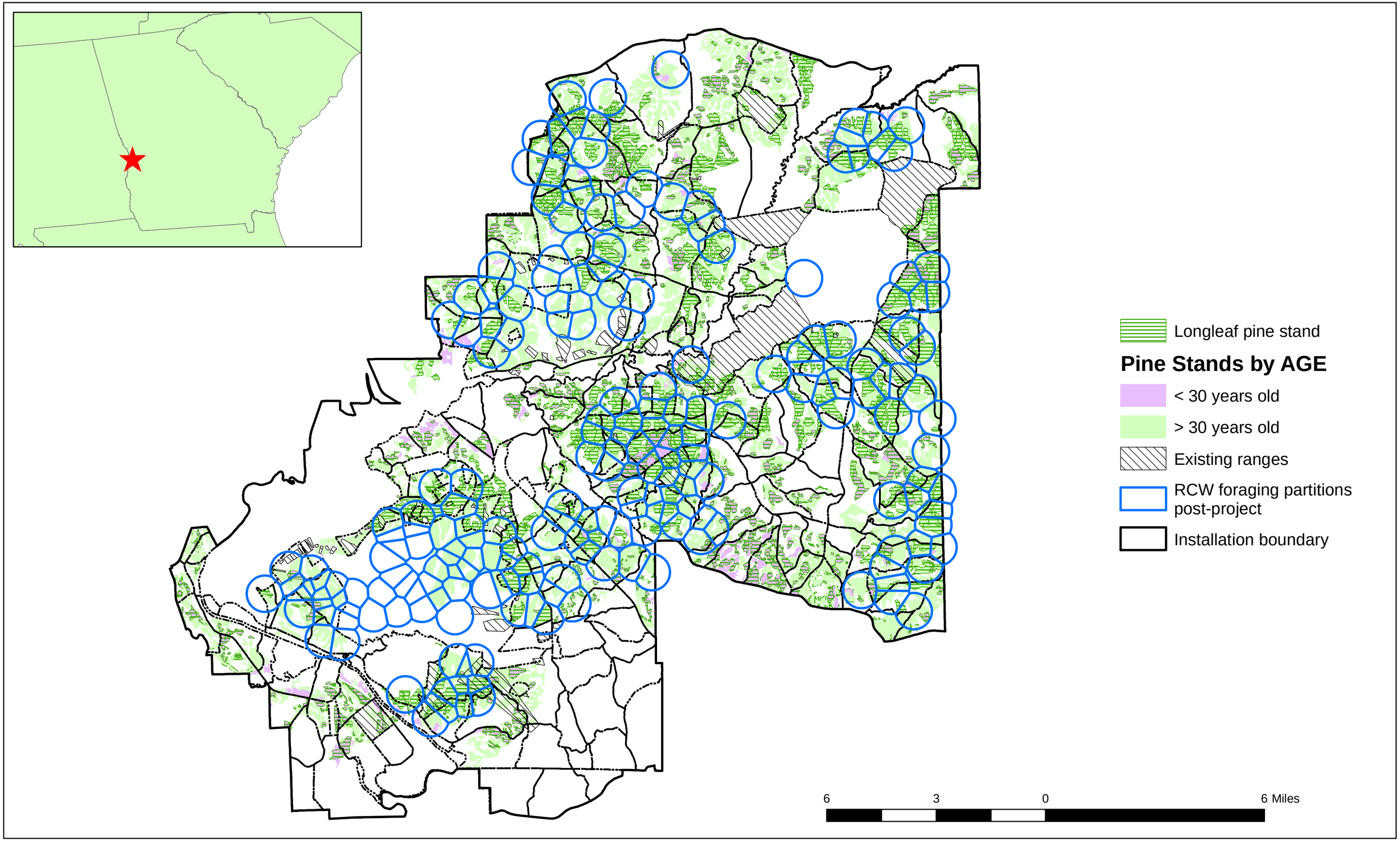


Figure 3-15. Red-cockaded woodpecker (RCW) partitions remaining post-project for Alternative B and contiguous pine and pine-hardwood stands (potential RCW foraging habitat) by age and species, Fort Benning.

uneven-aged management, some percentage of the pine stands in each partition would be in various stages of succession; in poor health; damaged from fire, weather, or training; or would need to be cleared for projects or military training.

In order to ensure sufficient habitat for 421 clusters, 150 acres per cluster was allowed. This decision was supported by the definitive foraging habitat and fitness study for Sandhills RCWs (conducted in NC), which found that the average home range size in the best quality habitat was nearly 200 acres (Walters et al. 2002). The 120 acre foraging habitat minimum acreage in the Recovery Standard (USFWS 2003a) is based on contiguous suitable habitat growing on high quality sites. These conditions do not currently exist on Fort Benning and may never be achieved there at a landscape level.

Using the allocation of 150 acres/cluster, Fort Benning would need 63,150 acres of contiguous longleaf habitat for recovery. The pine habitat acreage remaining post- project (65,934) could support 421 clusters at 156 acres/ cluster or 439 clusters at 150 acres/ cluster, which would be sufficient to meet recovery in the future depending on the spatial configuration of the remaining habitat and the distribution of RCWs on the landscape (but not considering habitat and population losses attributed to pine decline, future project removals/impacts or losses due to training impacts). However, if the loss of habitat due to the MPTR range is never recovered (3,089), the contiguous acreage remaining post-project (62,845 acres) would only support 419 clusters with 150 acres/ cluster each, slightly below the number of clusters Fort Benning must manage to meet its Recovery Goal.

Fort Benning is in the process of identifying upland hardwood-pine stands for conversion to longleaf pine. This conversion could potentially add to the total acres of pine on the Installation. Research currently being conducted on underplanting longleaf in loblolly pine stands, forest decline and pre-colonial stand composition at Fort Benning (Section 8 of the MCOE Biological Assessment) would provide valuable information in determining the best treatment methods to use in order to maintain the maximum amount of RCW habitat while successfully regenerating stands to longleaf pine.

3.8.5 RECOVERY UNIT ANALYSIS (JEOPARDY ANALYSIS)

In jeopardy analyses, a species' likelihood of both survival and recovery must be considered (USFWS and NMFS 1998). With RCWs, this determination is made at the Recovery

Unit Level (USFWS 2003a). Recovery is defined as "improvement in the status of a listed species to the point at which listing is no longer appropriate under the criteria set out in Section 4(a)(1) of the Act." Survival can be defined as "the condition in which a species continues to exist into the future while retaining the potential for recovery" (USFWS and NMFS 1998).

As discussed above, analyses at the Cluster, Group, Neighborhood and Population Levels suggest that Fort Benning may not be able to ultimately support a Primary Core Recovery Population (350 PBGs), thereby failing to perform the role prescribed for it in the species' Recovery Plan (USFWS 2003a). The proposed action (either alternative) is certain to delay recovery of the Fort Benning RCW population.

While Fort Benning is geographically within the Sandhills Recovery Unit, the closest RCW recovery populations to Fort Benning are the Piedmont/ Oconee Secondary Core Population (Piedmont Recovery Unit), Talladega/ Shoal Creek Essential Support Population (Cumberlands/ Ridge and Valley Recovery Unit) and the J.W. Jones Ecological Research Center Significant Support Population. A demographic link between Fort Benning and the next closest population in the Sandhills Recovery Unit (Fort Gordon) would require first forming a link with the Piedmont/ Oconee population. For this reason, while Fort Benning's role in the Sandhills Recovery Unit should be the primary focus of the Recovery Unit analysis, attention must also be paid to Fort Benning's role in relation to other populations in other Recovery Units as well.

USFWS would determine if the impacts described in this Biological Assessment would affect the Sandhills Recovery Unit's ability to recover in the BO for this action.

3.8.6 BIOLOGICAL DETERMINATION

May Affect, Likely to Adversely Affect

4 CUMULATIVE EFFECTS

In order to minimize repetition in this Appendix, refer to the Section 7 of the MCOE Biological Assessment for discussions on the Cumulative Effects.

5 STANDARD ENVIRONMENTAL PROTOCOLS AND ONGOING CONSERVATION EFFORTS

In order to minimize repetition in this Appendix, refer to the Section 8 for MCOE Biological Assessment for discussions on the Standard Environmental protocols and Ongoing Conservation Efforts.

6 MINIMIZATION EFFORTS

In order to minimize repetition in this Appendix, refer to the Section 9 of the MCOE Biological Assessment for discussions of measures that will be taken in order to minimize impacts to RCWs and relict trillium affected by Alternative B projects.

7 CONCLUSIONS

The proposed 2009-2012 Alternative B MCOE projects would have no effect on Michaux's sumac, purple bankclimber, shiny-rayed pocketbook, gulf moccasinshell, oval pigtoe or the wood stork. In addition, there would be no destruction or adverse modification of Critical Habitat for the shiny-rayed pocketbook mussel.

Potential direct impacts to relict trillium include damage to, and destruction of, plants in the Randall Creek North trillium population by clearing and construction of a proposed new security fence, road and bridge. Affected plants may be relocated to a recipient site on Fort Benning or to a site on GA DNR property in order to establish or enhance off-post relict trillium populations.

The ecosystem at Fort Benning is currently stressed, as land managers transition the forests from a fire-suppressed, loblolly pine-dominated system to a frequently burned, longleaf pine-dominated system. The proposed action would exacerbate the forest decline situation at Fort Benning and there would be a major loss of active RCW clusters. Sufficient contiguous pine acreage may remain post-project for the Installation to meet its population recovery goal in the future.

Post-project approximately 65,934 acres of pine habitat would remain, of which approximately 19,735 acres would be in loblolly or shortleaf pine stands with a high risk of decline. Pine acreage remaining post-project could potentially support for 421 clusters at 156 acres/ cluster or 439 clusters at 150 acres/ cluster. If the habitat associated with the isolated clusters in the northeast corner (3,089 acres) is removed, 421 clusters with 149 acres/ cluster and 419 clusters with 150 acres/ cluster could be supported.

RCW cavity trees and/ or foraging habitat would be impacted in 124 active and 12 inactive RCW clusters as a result of 2009-2012 MCOE projects. In 2008, 122 of these active clusters contained PBGs, 1 contained a solitary male and 1 was a captured site.

FHAs were completed for 123 active clusters (project impacts to 1 active cluster were in non-contiguous habitat and an FHA was not conducted). Pre- project, 35 of the 123 analyzed active clusters did not meet the SMS and 121 clusters did not meet RS.

Fifty-eight of the 123 active RCW clusters did not meet the SMS post- project and would be directly "taken" by the Alternative B Transformation projects. One additional cluster would be "taken" only because of cavity tree removals and 4 would be "taken" due to harassment

impacts. Eight clusters would be “taken” at the group level and 10 would be “taken” at the neighborhood level. Transformation projects resulting in 10 “takes” were not reanalyzed and must be added to the total impacts from this MCOE action in order to assess the cumulative effects of both actions on the Fort Benning RCW population. Therefore, the total number of RCW “takes” resulting from the Transformation and the proposed MCOE actions is 91.

One hundred and twenty-two clusters did not meet the RS post- project. Of these, 9 impacted (but not “taken”) clusters would have less than 120 acres of manageable habitat and would be unable to meet the RS in the future and 20 others would have between 120 and 150 acres of habitat and may or may not be able to meet the RS in the future depending on the local site conditions and management regime.

APPENDIX B

TRANSLOCATION MONITORING AND IMPLEMENTATION PLAN

Translocation Monitoring and Implementation Plan:
A management strategy for clusters impacted by Transformation actions on Ft. Benning.

This plan discusses management efforts designed to minimize the impacts of Transformation actions, especially related to Base Realignment and Closure(BRAC) to Red-Cockaded Woodpeckers (RCW) on Ft. Benning, GA. Specifically, this document satisfies the US Fish and Wildlife Service (USFWS) requirement for a 'Translocation Monitoring and Implementation Plan' for 9 RCW groups potentially effected by Transformation actions. Consistent with paragraph 7 of the 'Reasonable and Prudent Measures' outlined by the USFWS in their Biological Opinion (BO), this plan and its implementation meet the non-discretionary requirements presented in 'Terms and Conditions' paragraph 8.

Proposed Action
As mandated by Congress, the US Army is currently undergoing a reorganization and redistribution effort which involves the BRAC process. Many of the activities associated with this transformation will occur within the boundaries of the Ft. Benning Army Installation. One of the largest of these actions involves moving the Armor School from Ft. Knox to Ft. Benning. Under the proposed action, the Army would provide the facilities, infrastructure and equipment needed to support this transformation and the associated influx of soldiers and training as a result. In addition to upgrading cantonment areas, the Army will also conduct upgrades to existing training ranges and roads as well as construct numerous new ranges and tank trails throughout the Installation.

Pursuant to section 7of the Endangered Species Act, the Ft. Benning Conservation Branch (FBCB) conducted a thorough Biological Assessment (BA) to determine the possible impact these BRAC actions may have on the environment and various plant and animal species. The assessment determined that the actions were likely to adversely affect, among other species, the resident RCW population, but not jeopardize its continued existence on the Installation. The assessment also described current, on-going and future management criteria that will ensure survival and persistence of this species (Ft. Benning, 2007).

The Red Cockaded Woodpecker
In 1970, the USFWS listed the RCW as endangered (Federal Register 35:16047), and in 1973, the passage of the Endangered Species Act provided federal protection for this endangered species**.** The major component in the determination to list the RCW was the documented decline in local populations and massive reduction in foraging and nesting habitat. Today's population represents less than 3% of what was present in pre-colonial America (USFWS, 2003).

The RCW is a territorial, non-migratory, cooperatively breeding species (Lennartz, 1987). Breeding pairs are monogamous and produce broods of 1-4 fledglings per year.

Many groups also support one or more 'helpers', which are usually the male offspring from the pervious season. The remaining offspring typically disperse an average of 2 miles from their natal cluster within their first year. The most common periods for dispersal are just before or just after the breeding season (i.e. early fall or early spring).

Historically, the RCW occupied a wide range throughout old-growth, fire-maintained pine ecosystems of the southeastern United States. Although still widely distributed, the range of the RCW is now limited and fragmented as a result of timber clearing for agriculture, fire suppression, natural disasters, and disease. The RCW is the only North American woodpecker that excavates its roost and nest cavities exclusively in living pines, thus the habitat and cavity trees are both limiting factors for the RCW (USFWS, 2003).

RCWs on Ft. Benning

In September 1994, the USFWS issued a Jeopardy Biological Opinion (JBO) to Ft. Benning which concluded that ongoing military training, timber harvest and construction activities on Ft. Benning would "jeopardize" the continued existence of the Installation's RCW population. Since that time, intensive management activities have increased and improved the habitat and conditions for the RCW in an effort to recover the species and comply with USFWS requirements. In 2002, Ft. Benning received a BO for the Endangered Species Management Plan that was non-jeopardy for the RCW.

Currently, Ft. Benning supports 306 manageable RCW clusters with 262 Potential Breeding Groups (PBG). PBGs consist of one male and one female with or without helpers that may or may not successfully fledge young. Due to the social dynamics of the RCW, referencing the number of PBGs is a more accurate measure of population size than number of individual birds or clusters. The USFWS has mandated a goal of 361 PBGs to meet recovery criteria.

The major threat to the RCW as result of BRAC action stems from the direct loss of foraging habitat and cavity trees. In the BA for the BRAC actions, Ft. Benning requested permission for the Incidental Take (i.e. elimination) of 32 RCW clusters as a direct or indirect result of these activities. Although 'taken', those clusters not removed from the landscape will continue to be managed according to the Army RCW Guidelines (Ft. Benning, 2007)

RCW Monitoring and Management

Army Regulation 200-3 provides specific guidelines and protocols for the management of endangered species. In accordance with this regulation, Ft. Benning has prepared an Endangered Species Management Plan for the RCW. The Army complies with these regulations through employment of an extensive plan which includes resource and habitat management and rehabilitation as well as species surveys, monitoring and data collection for the RCW.

The current monitoring plan implemented on Ft. Benning involves determining the group composition and reproductive success of the population through the use of

color band identifications and regular nest and fledge checks throughout the breeding season.

For the purposes of data collection and foraging habitat analysis, one half-mile radius divisions were created around each managed RCW cluster on Ft. Benning. This area is known as the cluster's 'foraging partition'. In addition to monitoring and improving the foraging habitat within these partitions, managers also supplement the population with 'recruitment clusters' on an annual basis.

Artificial Cavities and Recruitment Clusters as a Management Tool
Because natural cavity excavation is time-consuming (typically taking many years) and dispersal distances are low, colonization of RCWs in new areas is a slow process. Increases in understanding of these animals and improvements in technology have led to the development of artificial roosting cavities, installed by humans to supplement or create new clusters on the landscape.

Using artificial cavities, managers are able to create additional artificial clusters throughout the installation. These 'recruitment clusters' facilitate more rapid dispersal of RCWs and improve the spatial arrangement of groups thereby increasing population numbers (USFWS, 2003).

Translocation
Recruitment clusters not only provide clusters for nearby birds to move into naturally, they also provide the opportunity for managers to physically move birds to an area via 'translocation'. Translocation is defined as relocation of one or more RCWs from an active cluster to an inactive or recruitment cluster or to supplement a single bird cluster with a bird of the opposite sex. The relocation of RCWs is facilitated by the installation of artificial cavities and has been used as a tool to augment populations throughout their range for many years. Such augmentation assists in the recovery of the species as a whole by preventing extirpations in smaller, more isolated populations (USFWS, 2003).

Translocation and BRAC/Transformation
In August of 2007, the USFWS issued a BO in response to the BA prepared by Ft. Benning. Upon review of the BA, the USFWS agreed that the impacts due to construction and operation of several proposed ranges and buildings could remove up to 9 RCW clusters from the landscape between the initiation of action and 2011 (see maps and details below).

For construction projects, impact analysis assumed 100% clearing within the projected footprint for each project. As a result of habitat removal within their associated foraging partition, a number of clusters will be 'taken' by BRAC actions. Some of these clusters will also experience direct loss of their cavity trees. In order to provide the birds with a reasonable chance of survival, the birds residing in clusters eliminated by project construction will need to be relocated.

Proposed Project Impacts to RCW Clusters

The following clusters (A17-01, A17-03, A17-14, HCC-03R, K02-01, O09-04R, O09-05R, D11-01 and D11-02) will be considered for translocation as a result of the anticipated loss of all or most of their cavity trees:

A17-01

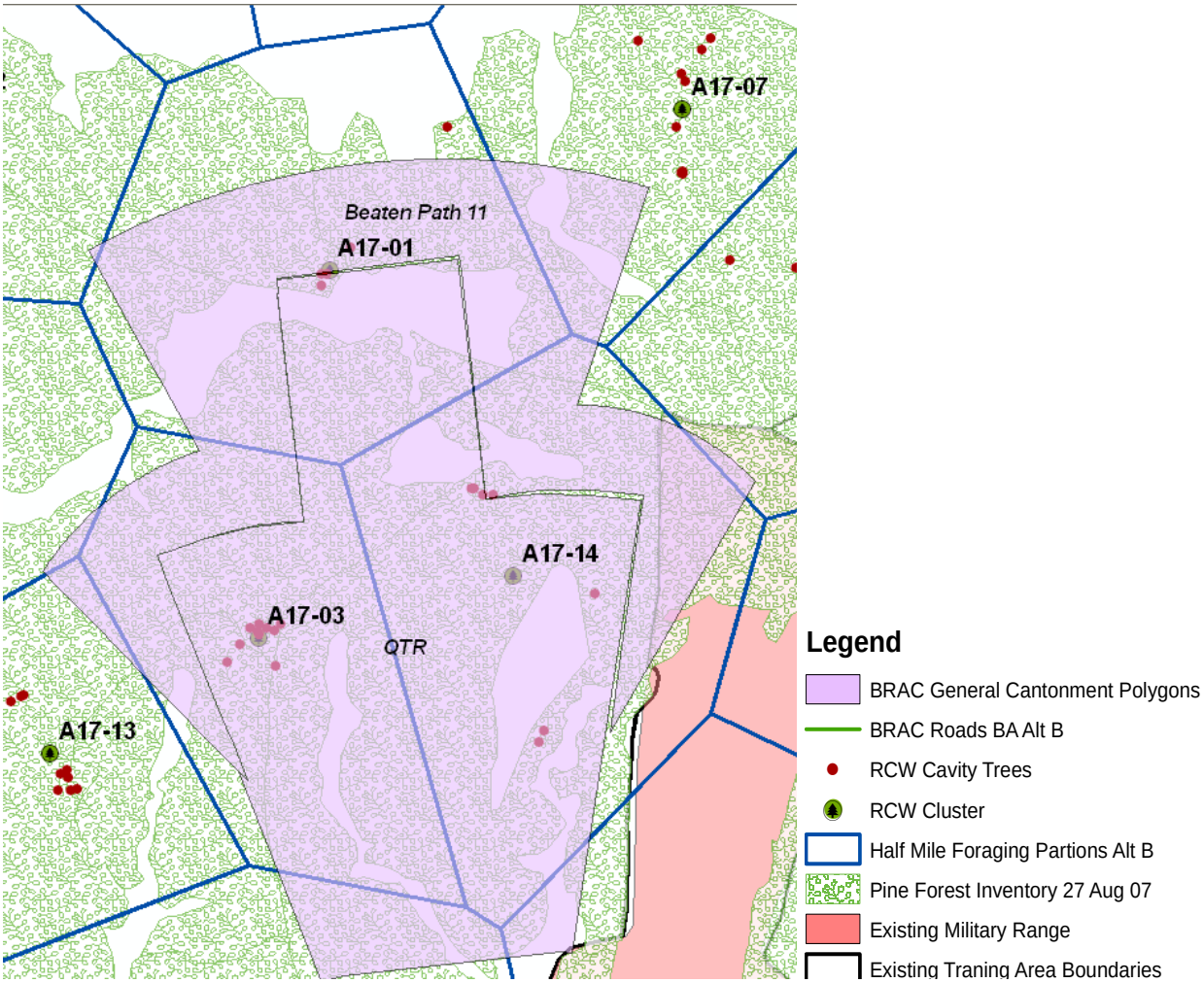
The 2011 Qualification Training Range and Beaten Area will remove 4 of 4 cavity trees which will result in elimination of the cluster by loss of cavity trees. This cluster will also experience a loss of 87.59 acres of habitat (see map below).

A17-03

The 2011 Qualification Training Range and Beaten Area will remove 11 of 11 cavity trees, which will result in loss of the cluster by loss of cavity trees. This cluster will also experience a loss of 109.12 acres of habitat (see map below).

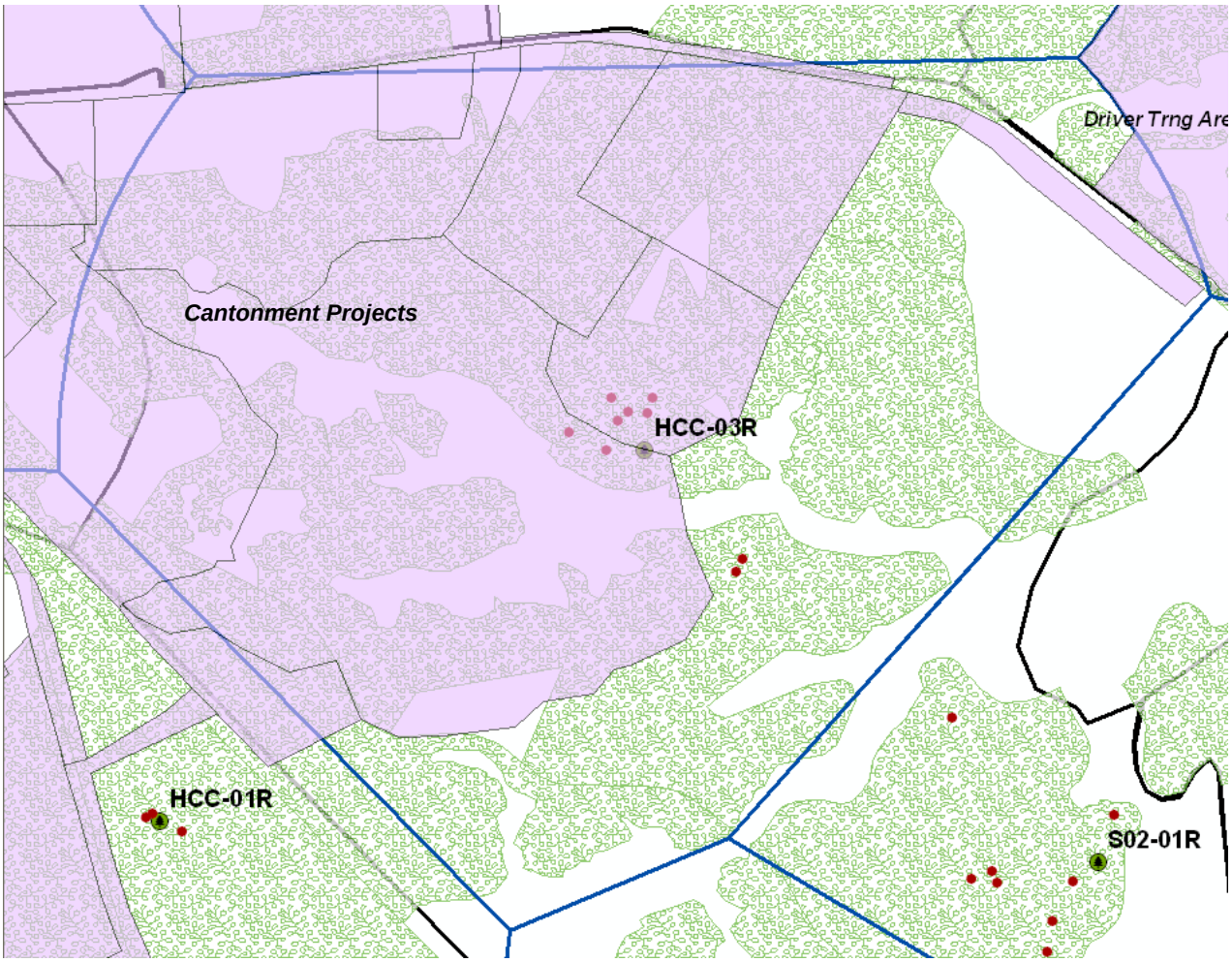
A17-14

The 2011 Qualification Training Range and Beaten Area will remove 7 of 7 cavity trees which will result in loss of the cluster by loss of cavity trees. This cluster will also experience a loss of 122.32 acres of habitat (see map below).



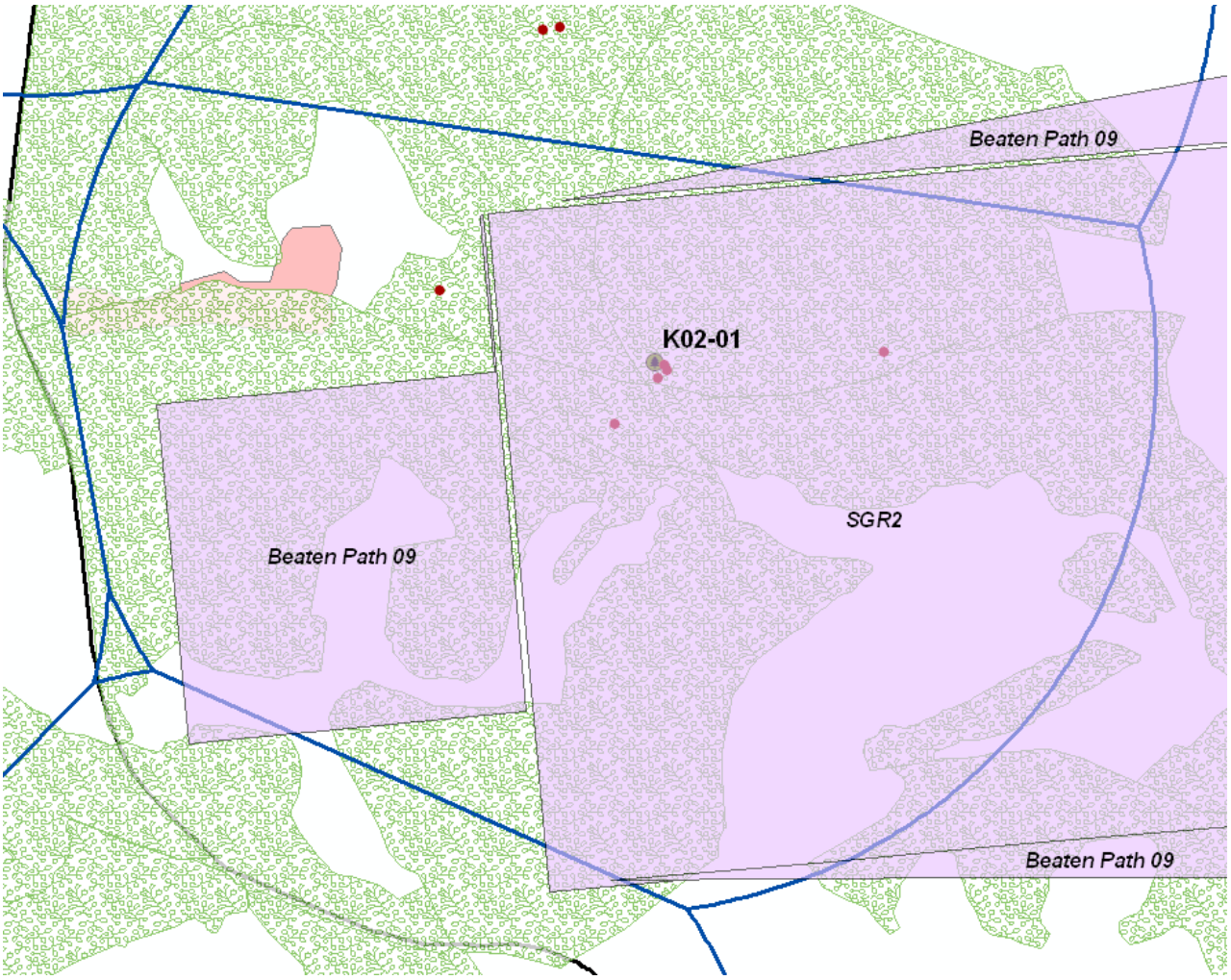
HCC-03R

Construction of the 2009 Centralized Wash Facility will remove 2 of 9 cavity trees and have impacts within 51 to 200 feet of 2 others. In addition, the 2011 3rd ID Brigade Combat Team project will remove five of nine cavity trees which will result in elimination of the cluster by loss of cavity trees. This cluster will also experience a loss of 125.86 acres of habitat (see map below).



K02-01

The 2009 Tank/ Fighting Vehicle Stationary Gunnery Range (SGR2) and beaten area will remove 5 of 5 cavity trees which will result in eliminated of the cluster by loss of cavity trees. This cluster will also experience a loss of 191 acres of habitat (see map below).

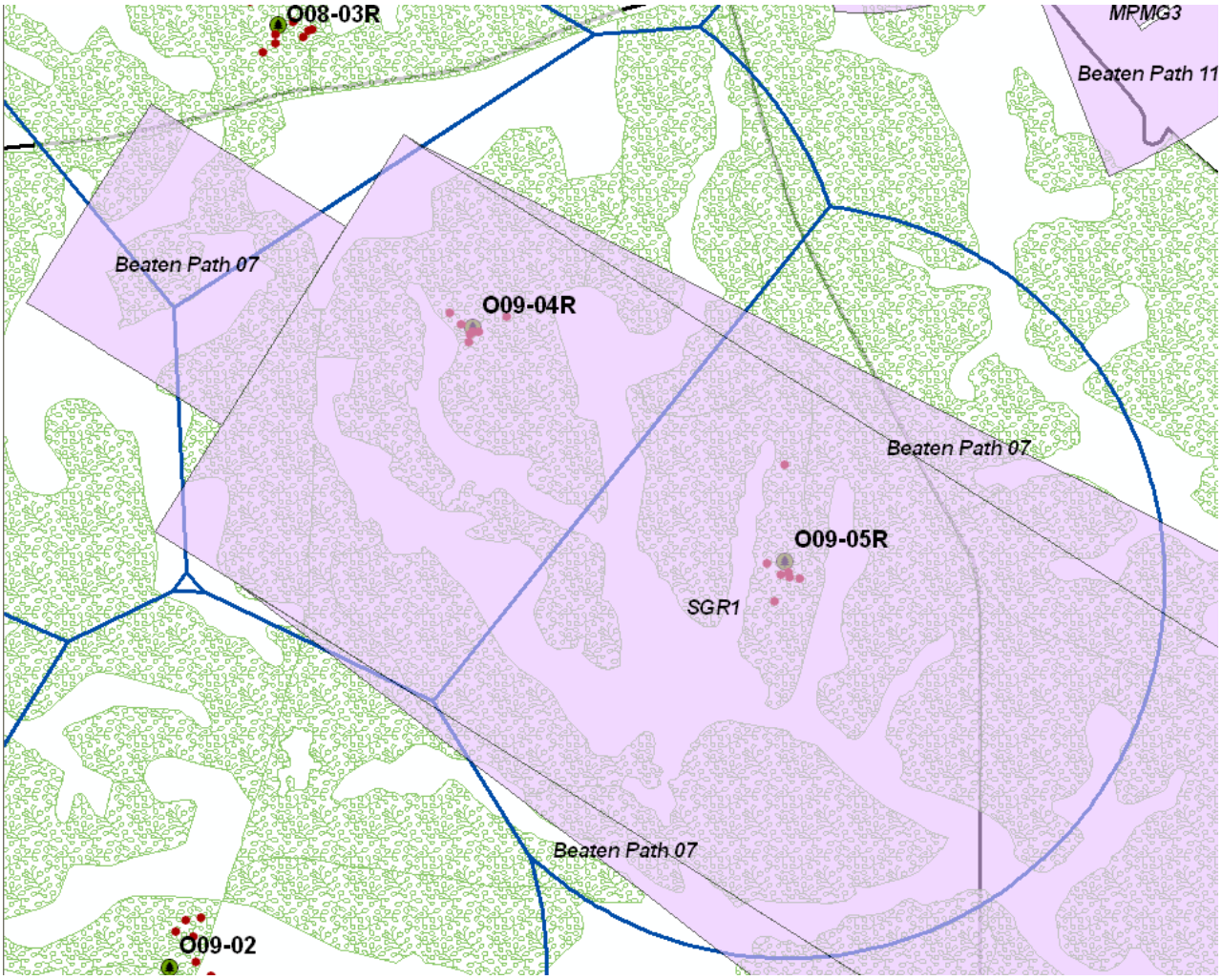


O09-04

The 2007 Tank/ Fighting Vehicle Stationary Gunnery Range (SGR1) and beaten area will remove 7 of 7 cavity trees which will result in elimination of the cluster by loss of cavity trees. This cluster will also experience a loss of 146 acres of habitat (see map below).

O09-05

The 2007 Tank/ Fighting Vehicle Stationary Gunnery Range (SGR1) and beaten area will remove 6 of 6 cavity trees which will result in take of the cluster by loss of cavity trees. This cluster will also experience a loss of 241.05 acres of habitat (see map below).



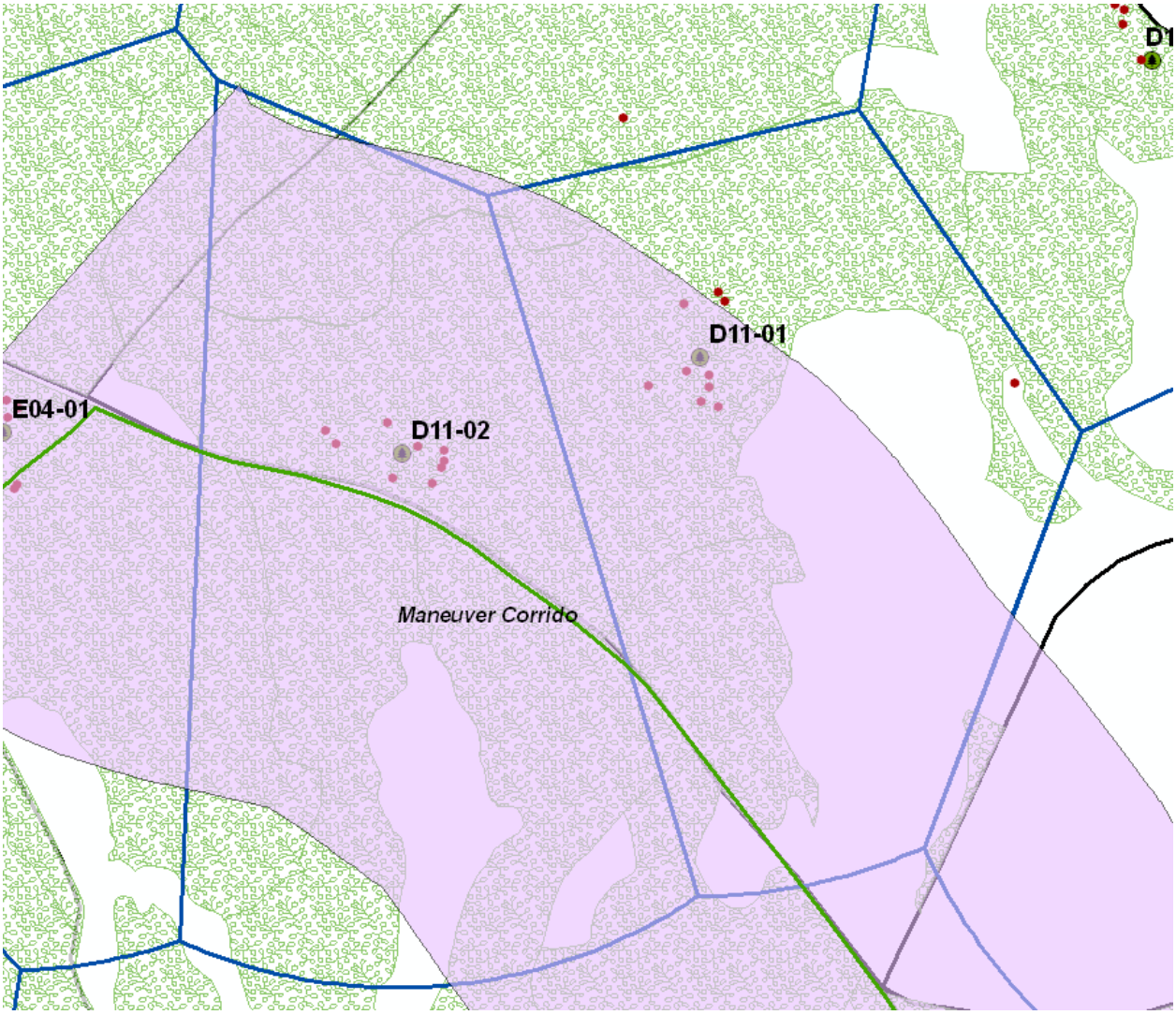
The following two clusters are expected to experience impacts to all of their cavity trees as well as habitat loss. These impacts may result in elimination of the cluster and therefore the birds in this cluster will need to be translocated to another location. The determining factor will be whether or not the Maneuver Corridor-South is cleared or selectively-thinned. For these groups, Fort Benning will consult with the USFWS to determine where those birds should be relocated if necessary.

D11-01

The 2009 Heavy Maneuver Corridor–South will impact 7 of 7 cavity trees which could result in elimination of the cluster by loss of cavity trees or harassment. This cluster will also experience a loss of 81.6 acres of habitat (see map below).

D11-02

The 2009 Heavy Maneuver Corridor-South will have impacts within 51 to 200 feet of 7 of 7 cavity trees which could result in elimination of the cluster by loss of cavity trees or harassment. This cluster will also experience a loss of 84.56 acres of habitat (see map below).



Further groups may also require relocation from clusters within maneuver heavy use areas and range beaten areas. Ft. Benning will consult with the USFWS if monitoring in these areas indicates that translocation or cluster shifting is necessary.

Minimization Efforts

Although incidental take has been approved for the aforementioned clusters, Ft. Benning will continue to act in the best interest of its RCW population. Every reasonable effort to increase population size and density including minimizing harassment and maximizing survival and retention of individual birds will be employed.

Ft. Benning will continue to serve as a donor population and, at the request of the USFWS, will contribute the offspring from clusters relocated as a result of BRAC to the Southern Range Translocation Cooperative (SRTC). However, an observed decline in the population as a result of BRAC or other actions may impede Ft. Benning's participation in this program and require further consultation with the USFWS.

Ft. Benning wishes to maintain its status as a recovery population and will attempt to retain the breeding pairs and helpers displaced by BRAC actions. This may involve the intra-population translocation of several established groups and, in some cases, repartitioning foraging habitat and shifting cluster centers.

1) Reallocating Foraging Partitions

Due to the low success rate of relocating established groups, reallocating foraging partitions is Ft. Benning's preferred method to reduce incidental take of clusters and minimize harassment. If reallocating the manageable acreage within foraging partitions will leave enough remaining suitable habitat for a particular group, shifting the cluster center is preferred to translocating the birds. Leaving the group in place would likely provide a higher probability of success (future reproduction from these birds) than translocating them (pers. comm. Ralph Costa, 2007).

Shifting the cluster center is accomplished by systematically forcing the birds to move into newly installed artificial cavities in an area near their original cluster and allowing the birds to acclimate to their new surroundings. Shifting is carried out prior to destruction of the old cavity trees and all limiting habitat factors are addressed prior to shifting.

The *Standard for Managed Stability (SMS)* is the minimum threshold used to assess RCW foraging habitat. Where possible, Ft. Benning will follow these standards when shifting cluster centers and locating recruitment clusters for displace groups. SMS guidelines are outlined in the RCW Recovery Plan and discuss a requirement of 3,000 ft^2 of pine BA for stems 10 inches or greater, with average pine basal area of those stems, between 40 and 70 ft^2/acre. There must be at least 75 acres of good quality foraging habitat, and this habitat can not be separated by more than 200 feet. USFWS has determined that it may be acceptable to fall below this standard for the relocation of 'taken' groups (Costa, 2007). FBCB will consult with USFWS on a case-by-case basis as translocation approaches.

Guidelines and Protocols

In accordance with USFWS recommendations, Ft. Benning will observe the following protocol for shifting cluster centers:

- When positioning the new cluster center, a one half-mile perimeter is created around the proposed area and the habitat within this polygon is first analyzed to determine if it meets the USFWS criteria.
- Areas chosen for cluster shifts will be as near as possible to the original cluster, but no closer than 0.25 miles from any existing cluster.
- New cavities will be installed 3 months prior to clearing an area in order to give the birds ample opportunity to discover and inhabit the new cavity trees.
- Cavities in trees designated for deletion will be 'plugged' using a wooden peg and putty 3 weeks prior to initiation of tree harvest.
- FBCB will install a second recruitment cluster in a predetermined area of the Installation to serve as a 'backup cluster'. These cavities will remain screened until translocation, if it becomes necessary. If shifting the cluster is successful, the 'backup cluster' will serve as general recruitment clusters within the Ft. Benning population.
- In the event that the newly shifted cluster becomes inhabited by a non-target group or species, the target group will be translocated to the secondary cluster following intra-population translocation measures as described below.
- Management and monitoring activities will continue for these groups as outlined below.

2) Intra-Population and Off-Post (Inter-Population) Translocations

Translocation will only be used as a tool to relocate those groups experiencing significant habitat loss and/or loss of cavity trees where repartitioning the cluster is not an option.

Whenever possible, displaced groups will be translocated to pre-determined recruitment clusters elsewhere on the installation. Recruitment clusters will provide 'replacement' cavities and habitat for relocated groups. If limiting factors such as minimum distance requirements and habitat quality prevent intra-population translocations, groups will be moved off-post to pre-arranged recipient populations within the SRTC.

In an effort to bolster a semi-isolated portion of the population and promote better spatial arrangement, Ft. Benning will attempt to relocate several clusters to the southeast section of the installation. Where necessary, Fort Benning will implement the necessary management actions to ensure stands meet the SMS guidelines for habitat conditions.

This action may offset the loss of taken clusters from the population by maintaining established breeding pairs. This will provide an opportunity for Ft. Benning to expand and increase population density while pursuing its recovery goal.

Guidelines and Protocols

Ft. Benning will implement the requirements for intra-population translocations outlined in section 8H of the RCW Recovery Plan as follows:

- In the case of intra-population moves, FBCB will ensure that the recipient clusters are in the best possible condition via thinning, hardwood midstory control and/ or cavity installation and maintenance.
- SMS guidelines will be implemented for all recruitment clusters selected and management actions will be completed prior to relocation of the birds.
- Each new cluster will be within 1 mile of multiple existing groups but no closer than .25 miles from any other cluster.
- A minimum of four cavities or the number necessary to accommodate all individuals will be installed or restored per cluster and will remain screened until the translocation event to prevent establishment of non-target groups or species.
- All groups will be moved a minimum of 10 miles from their original cluster as required by the USFWS to reduce 'homing' of the relocated birds.
- Status and composition of the target group will be confirmed one to three days prior to capture and relocation.
- All adults and sub-adults will be translocated simultaneously and the cavities screened immediately after RCWs are captured and removed.
- If possible, Ft. Benning will provide one additional recruitment cluster for each group translocated within 1 mile of the recipient cluster. This guideline is outlined in the Recovery Plan but is not necessary to follow in the case of 'taken' groups (Costa, 2007).
- A management and monitoring plan will be extended to these recruitment clusters as outlined below.

Methodology

Ft. Benning will follow the protocol outlined in Appendix 3 of the RCW Recovery Plan and employ the translocation method described therein unless otherwise dictated by the USFWS.

- Target RCWs are trapped at dusk using capture nets attached to telescoping poles.
- The birds are placed in wooden boxes with plastic mesh faces for transport to the target recruitment cluster then hand placed in their new cavity.
- A wire mesh screen fitted with a pull string is nailed over the cavity entrance effectively trapping the bird in the cavity.
- The birds are released at dawn the following morning. Once all birds are observed pecking at the screens, the screens are simultaneously pulled free of the cavity.
- Staff members will complete a data collection sheet similar to that provided below.

Timelines

Because Incidental Take has been approved for the clusters discussed in this plan, USFWS had determined that Ft. Benning is not required to follow the exact guidelines outlined in the RCW Recovery Plan (USFWS, 2007). However, FBCB will implement these recommendations to the best of its ability where applicable.

Although success rates have been shown to increase with the simultaneous release of multiple pairs (USFWS, 2003), Ft. Benning will translocate groups according to construction and timber clearing schedules in an effort to minimize unnecessary harassment. When applicable, multiple groups will be released simultaneously in their target recruitment clusters.

Groups will remain in their native clusters until the year in which they are expected to be impacted by BRAC actions. This will ensure that the clusters originally analyzed as impacted will in fact be effected by the final design plan for the project. This will eliminate any unnecessary translocations and prolong the group's reproductive success and contribution to the total population for as long as possible.

Ft. Benning will make every reasonable attempt to capture the sub-adults considered for off-post moves during the established timeline outlined in the RCW Recovery Plan (Sept 15th – Jan 1st). Whenever feasible, the established or potential breeding pairs and their helpers will remain in the cluster until just prior to the breeding season in the year of anticipated impact. The window outlined by the USFWS for this type of translocation is March 25th – April 7th.

BRAC project actions are discussed in terms of the fiscal year (FY) during which they will be initiated. Ft. Benning's FY is defined as October 1st – September 31st. In some cases, construction may begin as early as October of the projected FY. For those impacted clusters, adults will need to be moved prior to the initiation of projects and potentially as early as the spring preceding the FY of impact. For example, if construction is for an FY09 project is slated to begin in October of 2008, the impacted RCW group will be translocated prior to the 2008 nesting season.

Because construction initiation dates are not readily available for future projects, specific translocation timeframes for each cluster cannot be determined at this time. As action dates approach, scheduling will consider construction deadlines, FBCB staff availability and schedules of donor and recipient populations, as well as USFWS guidelines.

Cluster-Specific Translocation Strategy

As currently active clusters may become inactive, translocations will only take place for clusters active just prior to project initiation. Cavities in inactive clusters will be screened 3 weeks prior to timber harvest to prevent reactivation. In addition, currently inactive clusters may be activated before construction begins. In this case, Ft. Benning will consult with the USFWS as to the course of action recommended.

Due to the fluid nature of the BRAC projects and their associated impacts on RCW groups, plans specific to each cluster will be developed as the action approaches but will follow the general plan discussed in this document. Due to the close timing of the Record of Decision (ROD) to the FY07 BRAC projects, plans for translocations of clusters impacted by these actions have been prepared. These groups will be translocated to a recruitment cluster in the southeastern portion of the Installation. It is

anticipated that this translocation will take place between October 1st and November 30th, 2007 and will follow the protocols outlined above. If timber harvest for the project is delayed until after the 2008 nesting season, Ft. Benning will delay the translocation in response in order to give the birds the best opportunity for survival and reproduction.

Ft. Benning received permission from USFWS to translocate the following individuals to the recruitment clusters described.

O09-04
This cluster is designated for cavity tree removal and construction is scheduled to begin 1 Jan 08 (Morris, 2007). The pair currently occupying this cluster did not produce offspring in 2007.
The target birds designated for translocation are:
USFWS Number 1991-04474: 3Y Female B-USFWS/PI-LTBLU-PI
USFWS Number 1801-45793: 5Y Male USFWS-DKPI/B-O-B

O09-05
Ft. Benning has determined that it is not possible to follow the plan outlined in the BA with regards to shifting cluster O09-05 (see diagram below) in FY07 (Ft. Benning 2007; Pg 384; Figure 6-20). Upon closer inspection, FBCB personnel determined there are no suitable cavity trees available in the target area described in the BA.

This cluster is designated for cavity tree removal and construction is scheduled to begin 1 Jan 08 (Morris, 2007). The pair currently occupying this cluster did not produce offspring in 2007. This group includes one related male helper. FBCB will translocate the adult pair of this group together. Because the helper male is related to both adults, FBCB will attempt to create a third pair by translocating the helper male to a separate cluster along with a sub-adult female. This will only occur if the male is still present at the time of the translocation event and if a sub-adult female can be located. This action may likely increase the probability of the young pair remaining in their target cluster and nesting successfully (Costa, 2007).
The target adults designated for translocation are:
USFWS Number 1891-64759: A4Y Female USFWS-DKBLU/B-B-Y
USFWS Number 1751-00780: 7Y Male DKPI-USFWS/LTG-LTG-Y

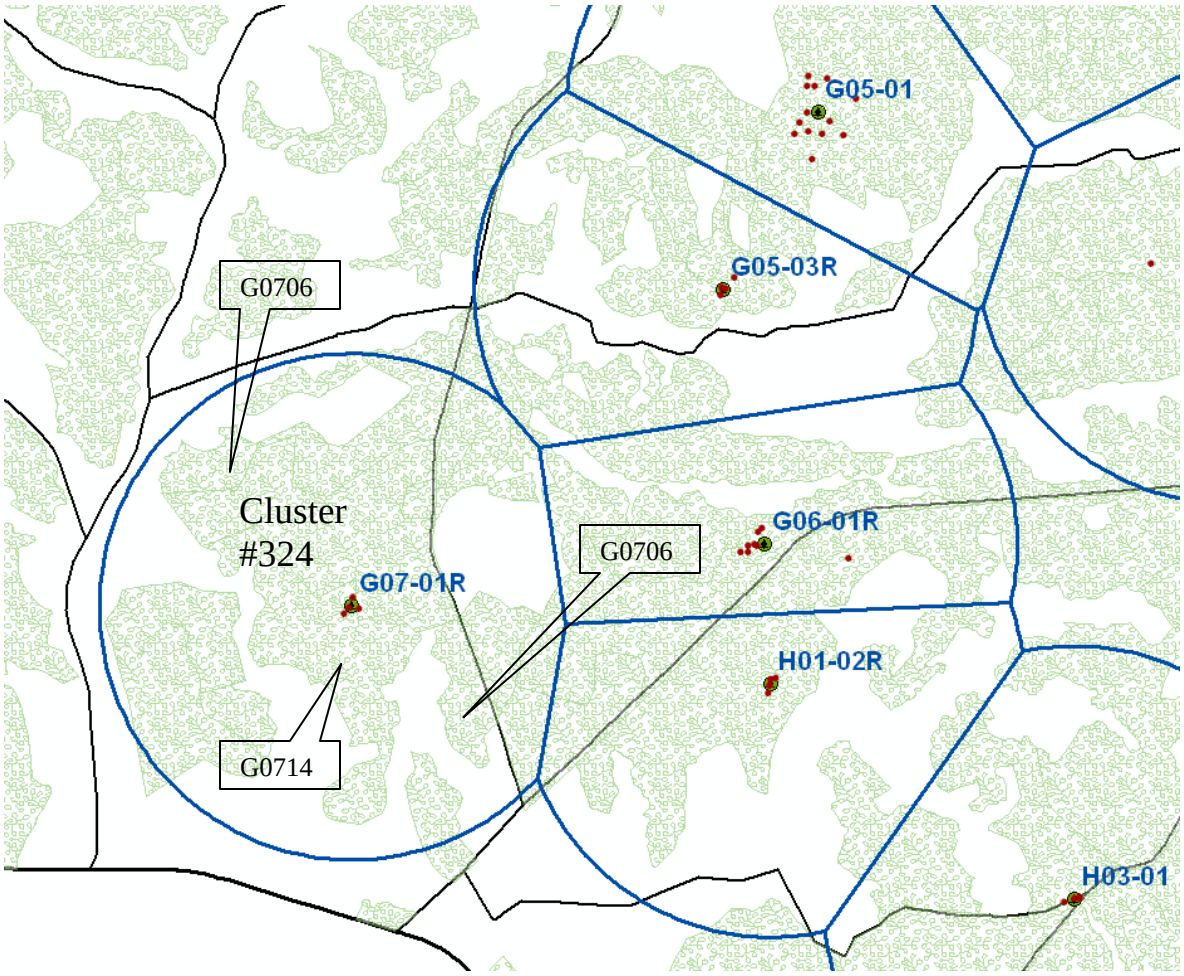
The target helper male designated for translocation is:
USFWS Number 1801-45994: 2Y Male USFWS-LTBLU/B-B-Y
He will be paired with a sub-adult female determined to be available for translocation at a later date.

The three recruitment clusters chosen for the relocation of the aforementioned groups are described below (see diagrams). The clusters will be located in the southeastern portion of the Installation and all are greater than 10 miles from the cluster they currently inhabit. The specific cluster in which individuals will be released will be determined at the time of the translocation event.

RCW Cluster G07-01, #324

This cluster is a currently inactive cluster that will be reactivated for the purpose of this translocation. The artificial cavities associated with this cluster have recently been replaced by the FBCB. The habitat associated with this recruitment cluster currently consists of 30.474 acres of good quality habitat with a pine basal area (BA) of 40 or greater. With permission of the USFWS via the RCW Recovery Coordinator, Ft. Benning will alter the current standard from 40 BA to 30 BA for the purpose of accommodating this translocation event (Costa, 2007). Utilizing this reduced standard will immediately yield 98.737 acres of RCW foraging habitat. Management activities will improve additional acreage of habitat. Implementing the management listed for the following stands will result in 175.79 acres of good quality RCW foraging habitat with a total BA of 6489.539. See attachment for additional information regarding this cluster.

Stand ID	Management required
G0706	removal of over-story hardwood component
G0714	removal of over-story hardwood component
G0716	removal of mid-story and over-story hardwood component

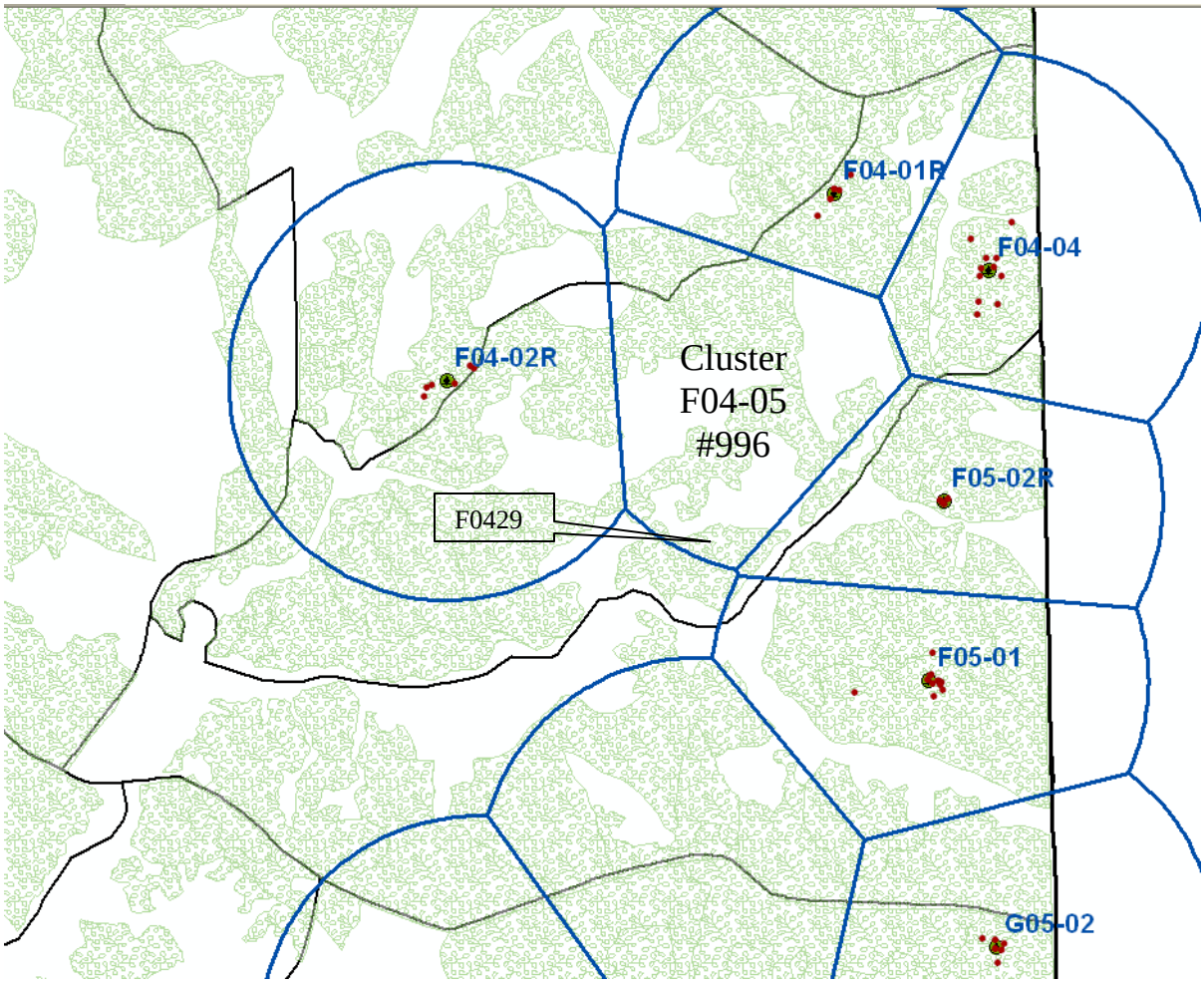


Cluster F04-05, #996

The habitat associated with this recruitment cluster currently falls below SMS standards and contains no stands with a pine basal area (BA) of 40 or greater. With permission of the USFWS via the RCW Recovery Coordinator, Ft. Benning will alter the current standard from 40 BA to 30 BA and reduce the minimum acreage from for 75 to 65 for the purpose of accommodating this translocation event (Costa, 2007). Utilizing this reduced standard will immediately yield 65.281 acres of good quality RCW foraging habitat with a total BA of 2249.588. In addition, Ft. Benning will implement the following management activity to improve the potential acreage of this cluster.

See attachment for additional information regarding this cluster.

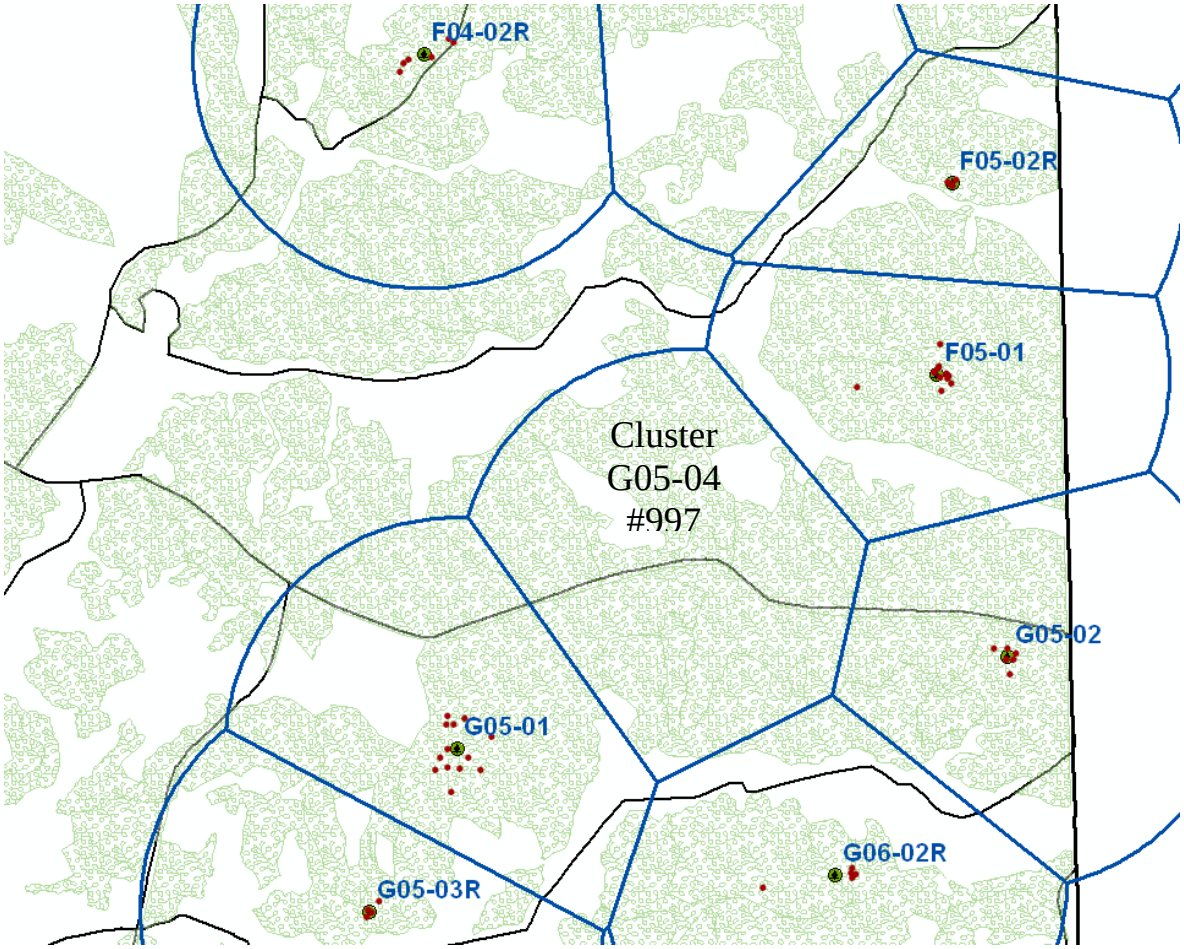
F0429	removal of mid-story hardwood component

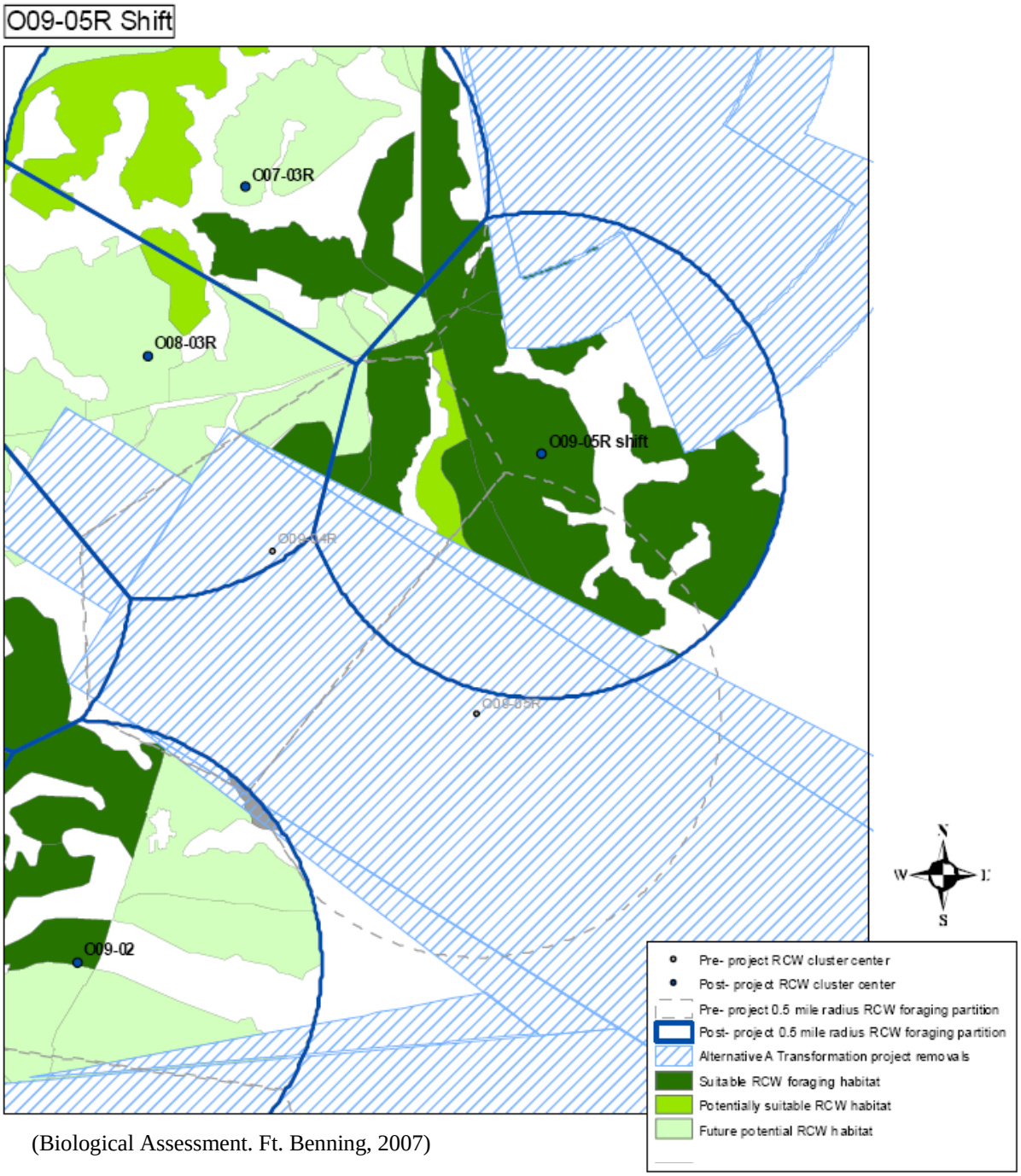


Cluster G05-04, #997

The habitat associated with this recruitment cluster currently falls below SMS standards and contains no stands with a pine basal area (BA) of 40 or greater. With permission of the USFWS via the RCW Recovery Coordinator, Ft. Benning will alter the current standard from 40 BA to 30 BA for the purpose of accommodating this translocation event (Costa, 2007). Utilizing this reduced standard will immediately yield 196.685 acres of good quality RCW foraging habitat with a total BA of 6649.416.

No additional management activities are required to improve this recruitment cluster. See attachment for additional information regarding this cluster.





(Biological Assessment. Ft. Benning, 2007)

Clusters requiring relocation as a result of BRAC actions

Cluster	Year of anticipated impact	Project Number	Action Impacting Cluster	Cavity Tree Loss	Cavity Tree Impacts	Total Foraging Habitat Lost (acres)
A17-01	2011	67012	QTR	4 of 4	0	87.59
A17-03	2011	67012	QTR	11 of 11	0	109.12
A17-14	2011	67012	QTR	7 of 7	0	122.32
HCC-03R	2009	65252/48644	Centralized Wash Facility	2 of 9	2 of 9	125.86
	2011	63799	3rd ID Brigade Combat Team Complex	5 of 9	0	
K02-01	2009	65383	SGR 2	5 of 5	0	191.7
O09-04R	2007	65382	SGR 1	7 of 7	0	133
O09-05R	2007	65382	SGR 2	6 of 6	0	241.05
D11-01	2009	n/a	Heavy Maneuver Corridor – South	0	7 of 9	81.6
D11-02	2009	n/a	Heavy Maneuver Corridor – South	0	7 of 7	84.56

BRAC Translocation Data Collection Table

Individual IDs (band combinations)											
Adults	Sex	Helpers	Sex	Capture Cluster	Tree Number	Time of capture	Relevant Weather Conditions	Release Cluster	Release Tree Number	Time of release	Weather Conditions at release site

Post-Translocation Monitoring

Following examples from population managers experienced in intra-population translocations, Ft. Benning will employ the following protocol for post-translocation monitoring.

- FBCB staff will return to the cluster at dusk or dawn the day following the translocation event and identify band combinations of any RCWs observed to determine if the target birds remained in their target cluster.
- Regardless of presence or absence, technicians will return one week and one month post-translocation to repeat their observations.

Because the target clusters are also recruitment clusters, Ft. Benning will monitor them employing the protocols followed for monitoring other recruitment clusters.

- FBCB staff will conduct bi-annual inspections (spring and fall) to monitor activity status.
- Prior to the breeding season, Ft. Benning will conduct a thorough inspection to determine condition and contents of all cavity trees in the cluster.
- During the nesting season (April – July), any cluster found to be inactive will be checked every 3 weeks for signs of activity.
- Active clusters will follow normal monitoring protocol.
  - Group composition will be determined for each cluster.
  - Personnel will band all nestlings and any unbanded adults associated with the group.
  - Staff will perform sex checks and fledge checks for each cluster.
  - All data collected will be reported annually to the USFWS.

It is likely that the translocated groups will split and birds may disperse from the target cluster, reintegrating themselves into the population in some way, for example, by displacing other pair members, becoming ‘floaters’ or filling breeder vacancies. It is also possible that the translocated RCWs will attempt to return to their original cluster (pers. comm. Richard Stich, 2007). If the target birds are found in another cluster during regular annual inspections, FBCB will report these findings to the USFWS.

At the annual SRTC meeting, Ft. Benning will collect information about the fate of RCWs translocated off-post from recipient population personnel. The results of all translocation efforts will be reported to the USFWS in an Annual Report. In addition, Ft. Benning will request that each recipient population forward their annual report to USFWS GA office.

Finally, Ft. Benning will continue to consult with USFWS as to the specific clusters selected for future translocations. FBCB will provide USFWS with information specific to translocation of each cluster, such as individual IDs, group dynamic, location of recruitment cluster and condition of habitat, in the required quarterly report submitted just prior to the specified translocation event.

References:

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APPENDIX C

RED-COCKADED WOODPECKER DEMOGRAPHIC MONITORING PLAN

Red-cockaded Woodpecker Demographic Monitoring Plan

A monitoring strategy for clusters impacted by BRAC/Transformation actions on Ft. Benning.

This plan discusses monitoring procedures designed to assess the impacts of Transformation actions, especially the Base Realignment and Closure (BRAC), to Red-cockaded woodpeckers (RCW) on Ft. Benning. Specifically, this document satisfies the U.S. Fish and Wildlife Service (USFWS) requirement for a 'RCW Demographic Monitoring Plan' for groups potentially affected by Transformation actions. Consistent with paragraph 6 of the 'Reasonable and Prudent Measures' outlined by the USFWS in their 20 August Biological Opinion (BO), this plan and its implementation meet the non-discretionary requirements presented in 'Terms and Conditions' paragraph 7.

Proposed Action

As mandated by Congress, the U.S. Army is currently undergoing a reorganization and redistribution effort which involves the BRAC process. Many of the activities associated with this transformation will occur within the boundaries of the Ft. Benning Army Installation. One of the largest of these actions involves moving the Armor School from Ft. Knox to Ft. Benning. Under the proposed action, the Army would provide the facilities, infrastructure and equipment needed to support this transformation and the associated influx of soldiers and training as a result. In addition to upgrading cantonment areas, the Army will also conduct upgrades to existing training ranges and roads as well as construct numerous new ranges and tank trails throughout the Installation.

Pursuant to section 7 of the Endangered Species Act, Ft. Benning's Conservation Branch (FBCB) conducted a thorough Biological Assessment (BA) to determine the possible impact these BRAC actions may have on the environment and various plant and animal species. The assessment determined that the actions were likely to adversely affect, among other species, the resident RCW population, but not jeopardize its continued existence on the Installation. The assessment also described current, on-going and future monitoring and management criteria that will ensure survival and persistence of this species (Ft. Benning, 2007).

The Red-cockaded Woodpecker

In 1970, the USFWS listed the RCW as endangered (Federal Register 35:16047), and in 1973, the passage of the Endangered Species Act provided federal protection for this endangered species. The major component in the determination to list the RCW was the documented decline in local populations and massive reduction in foraging and nesting habitat. Today's population represents less than 3% of what was present in pre-colonial America (USFWS, 2003).

The RCW is a territorial, non-migratory, cooperatively breeding species (Lennartz, 1987). Breeding pairs are monogamous and produce broods of 1-4 fledglings per year. Many groups also support one or more 'helpers', which are usually the male offspring from the pervious season. The remaining offspring typically disperse an average of two miles from their natal cluster within their first year.

Historically, the RCW occupied a wide range throughout old-growth, fire-maintained pine ecosystems of the southeastern United States. Although still widely distributed, the range of the RCW is now limited and fragmented as a result of timber clearing for agriculture, fire

suppression, natural disasters, and disease. The RCW is the only North American woodpecker that excavates its roost and nest cavities exclusively in living pines, thus the habitat and cavity trees are both limiting factors for the RCW (USFWS, 2003).

RCWs on Ft. Benning

In September 1994, the USFWS issued a Jeopardy Biological Opinion (JBO) to Ft. Benning which concluded that ongoing military training, timber harvest and construction activities on would "jeopardize" the continued existence of the Installation's RCW population. Since that time, intensive management activities have increased the habitat and improved conditions for the RCW in an effort to recover the species and comply with USFWS requirements. In 2002, Ft. Benning received a BO for the Endangered Species Management Plan that was non-jeopardy for the RCW.

Currently, Ft. Benning supports 306 manageable RCW clusters with 262 Potential Breeding Groups (PBG). PBGs consist of one male and one female with or without helpers that may or may not successfully fledge young. Due to the social dynamics of the RCW, referencing the number of PBGs is a more accurate measure of population size than the number of individual birds or clusters. The USFWS has mandated a goal of 361 PBGs to meet recovery criteria.

The Army complies with federal policy through employment of the Endangered Species Management Plan, an extensive plan which includes guidelines for species surveys, monitoring and data collection for the RCW as well as resource and habitat management and rehabilitation. U.S. Army Infantry Center Regulation 210-4 provides protocols specific to training activities near RCW clusters on Ft. Benning.

Monitoring BRAC/Transformation Impacted Clusters

The major threat to the RCW as result of BRAC/Transformation action stems from the direct loss of foraging habitat and cavity trees. Other threats include habitat fragmentation, interruption of natural dispersal and interference with reproductive success due to increased harassment in the form of soldier activities such as maneuver training and the noise resulting from gunnery firing.

Monitoring Criteria
As mandated by the USFWS 20 August 2007 BO, Ft. Benning will monitor 100% of the RCW clusters impacted by BRAC actions. Impacted clusters are those clusters whose cavity trees are within 200' of road projects and/or within 0.5 miles of a proposed Transformation project as well as all clusters experiencing habitat loss from within their foraging partitions as a result of any project. Monitoring will include banding all adults and nestlings in the cluster and will be conducted for five years after project completion and/or training initiation.

FBCB will employ the monitoring and management practices outlined through Army guidelines and the RCW Recovery Plan for BRAC/Transformation impacted RCW clusters on the Installation. The attached memorandum for record (Enclosure 1) describes Ft. Benning's protocol for these activities in detail. The current monitoring plan implemented on Ft. Benning meets the monitoring requirements outlined in the 20 August 2007 BO. Monitoring protocols involve determining the group composition and reproductive success of the population through the use of color band identifications and regular nest and fledge checks throughout the breeding season.

In the BA for the BRAC actions, Ft. Benning requested permission for the Incidental Take (i.e. elimination) of 32 RCW clusters as a direct or indirect result of Transformation activities. Although 'taken', those clusters not removed from the landscape will continue to be managed according to the Army RCW Guidelines (Ft. Benning, 2007).

Continued Management of Eliminated Clusters

Analysis presented in the 2007 Biological Assessment (BA) determined that, of the 32 clusters granted take, 14 may still have the ability to reach the RCW Recovery Standard for habitat totals in the future. The USFWS mandated in their 20 August 2007 BO that none of these clusters should be deleted from management. "Continued management of these clusters may result in the perpetuation or reformation of groups and allow these sites to be counted towards the Installation population goal. Many of these clusters can play a role in maintaining demographic connectivity and continue to contribute fledglings for overall population stability and growth" (USFWS, 2007).

FBCB acknowledges that clusters will become inactive or activate over time. The specific clusters to be monitored on an annual basis will be provided to the USFWS in the required quarterly reports as outlined in the terms and conditions of the 20 August 2007 BO.

Future Monitoring

The analysis performed for the BA took into account project information current as of January 2007. The BA discussed impacts to 91 active and inactive RCW clusters on Ft. Benning. In order to satisfy the terms and conditions as outlined by the USFWS in their 20 August BO, FBCB re-assessed impacts to clusters due to their proximity to proposed roads and projects and identified additional clusters which will require demographic monitoring.

Since final submittal of the BA analysis and BO response, numerous proposed projects have changed in scope, location and design. For this reason, FBCB will re-analyze impacts for each project as the design phase progresses. Re-analysis of project footprints and scope of training events may determine that clusters are experiencing new or additional impacts or that clusters originally anticipated to experience impacts will no longer be affected. Due to the fluid nature of Transformation/BRAC actions, Ft. Benning anticipates that there may be changes to purposed projects which will necessitate revision to this plan over time.

Summary

In summary, Ft. Benning will monitor and band 100% of active impacted clusters annually. FBCB will monitor impacted groups following established protocols as outlined by the USFWS and Army guidelines. RCW demographic monitoring will provide valuable data with respect to the impact of large scale construction and range operation on the population. Thorough monitoring will also allow Ft. Benning to detect and react to unexpected impacts from proposed actions to the RCW population. Ft. Benning anticipates alteration of this monitoring plan over time to reflect changes in both population activity and in proposed BRAC/Transformation actions. If monitoring identifies unexpected impacts, Ft. Benning will consult with the USFWS to determine the appropriate course of action.

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U.S Fish and Wildlife Service, Atlanta, GA. 2007. Biological Opinion, 97 pp.

IMSE-BEN-PWE-C 09 April 2007

SUBJECT: Red-cockaded Woodpecker Population Monitoring and Banding

A. Introduction

The Monitoring Program is setup to determine population trends, reproductive success and response to management and military activities, as well as banding birds for translocation purposes. This includes annual inspections of all clusters and banding of adults and nestlings in the 25% sample clusters and all active recruitment clusters (for five years after activation). All sample clusters and recruitment clusters are also visited during the breeding season to determine if breeding is occurring in these sites (recruitments clusters for five years after activation). This will provide an accurate picture of breeding success at Fort Benning. Non-monitoring clusters will be visited until the composition of the site is determined. The easiest and preferred way to determine the presence of a potential breeding pair is to document a nest. In clusters where no nest can be found, the effort must be made to determine if there is a potential breeding pair that has not nested, if it is a single bird cluster, or if the cluster is captured. Once this determination is made, the cluster does not need to be checked any further for breeding.

The 25% sample clusters were randomly selected from the total active clusters. Clusters in the A20 and K15 impact areas are not included in the population monitoring due to access limitations, except for three clusters in A20 that have been cleared for management by EOD.

Data from the breeding season will be used to determine breeding success and also to determine the best sites for recruitment clusters for that year. This will also provide for a pool of birds for possible translocation efforts for that year.

All recruitment sites will be visited during the breeding season and again in the fall of each year. As clusters are activated, all adult and nestlings will be banded. Occupied recruitment clusters will be monitored for five years. Data on military activities in these sites will also be documented.

Annual reports of all activities will be submitted as required.

All written data that is collected should be recorded in black ink and be clear and legible. If not, data will be returned and you will be asked to redo data sheets.

B. Nest Checks

Each cluster should be checked for a nest about every 7-10 days, with no more than 11 days between checks. There should be only one nest per cluster, but until a nest is located, each active cavity must be considered a potential nest site. Nests are typically in the most active cavity, and often in the most recently completed cavity. However, at the beginning of the breeding season some nest cavities show only moderate activity. Pay special attention to the previous years nest cavity. Birds will on occasion reactivate a tree to use as a nest tree. This most often occurs with renesting attempts. Always pay attention to previously listed inactive cavities/trees in clusters that have not nested or have failed.

Most nests can be found by scraping loudly with an axe handle/rake on the tree to flush the incubating adult. However, some birds will lean out to see what is going on and may be difficult to see. Use the peeper to check cavity contents whenever a RCW is flushed. The only way to conclusively document a nest attempt is to observe RCWs brooding eggs/tending nestlings. Therefore, in order to document a nest in a non-monitoring cluster, the technician must observe/flush an adult RCW from a nest or document nestlings. During every other nest check cycle, all active cavities should be peeped in sites where no nest has been found. If no nest is found by the middle of the breeding season, conduct a morning follow of group members to determine group status. The target group should be observed for a half an hour to an hour, immediately after the birds exit their cavities in the morning. Also check all cavities previously listed as inactive as it could have been reactivated and become a nest tree. Group status is classified as (1) potential breeding group, indicated by two or more birds that remain together and peacefully interact, (2) solitary bird, indicated by a bird that remains solitary for the duration of the follow, or (3) captured cluster, indicated by no birds or a bird that roosted in the target cluster but joined a neighbor group. If doubt as to the group status exists, the follow time is extended or the follow is repeated on another day. Also, survey the surrounding area (up to 1/4 mile) for new cavity trees. Any active tree more than 150 m from a nest tree should be checked for nests even when it is grouped with a cluster containing a nest (two nest trees within sight of one another are not unusual). Once eggs are found, return to the nest in 8 days. If you find the same number of eggs, check again in 8 days. If there are more eggs when you return, check again in 9 days. If chicks are found, the next check is scheduled by the optimal banding age (7-9 days old). Nestlings should be aged beginning with Day 0 (see handout). If it is necessary to band nestlings that are younger than 7 days old, it may be necessary to file down the bands in order for them to fit on the leg. If this is done, the band that is closest to the foot should never be filed as this may still result in a toe hung situation. Return when the nestlings are 18-20 days old to determine sex of nestlings. No nest should be peeped if the nestlings are 21 days or older as this may cause premature fledging. During these visits, adults should be identified. If a nest fails before fledging, that site must be put back into the nest check cycle. Check for nests through July. Continue to monitor sites after fledging for possible second nest. Each active tree should be peeped every other visit as sometimes adults will not flush when tree is scraped. This will ensure that a nest attempt is not missed. Make sure to scrape or lightly bang on each tree before inserting the peeper. This will give any roosting bird a chance to flush from the cavity. Mortality has been documented due to birds getting pinned by a peeper, so be cautious when inserting a peeper. Peepers should only be used one hour after sunrise and one hour before sunset.

Flag each nest tree found in banding clusters. This is not necessary in non-banding clusters.

Notify the Monitor/Survey Biologist once banding as soon as completed in a cluster. This may be done via email or a note given to the Biologist. Indicate the cluster(s) banded and the date banding occurred.

Data taken during the nest checks are recorded on nest check section on the pentabs. There should be one sheet for each cluster. It is extremely important to record the number of adults observed during nest checks. Pursue adults to identify if time permits. Never assume you will be able to identify the bird at a later date. If

adults are observed, record number of adults and band information on nest check sheet/band ID sheet. Note number of unbanded birds. These birds will have to be caught and banded after the breeding season concludes for that cluster. Adults can be captured two weeks after nestlings fledge as long as a second nest is not discovered.

Inactive clusters should be revisited once every three weeks, as clusters have been known to become activated during the breeding season and produce nests. Inactive clusters that do no have any suitable cavities do not need to be put into this rotation.

Weekly reports of nesting activity should be turned in. Reports are prepared as an EXCEL file. The form is located on the P-drive under shared folders, Nest reports and should be filled out by COB each Monday. You should use the filter button to find your sites and fill in as needed. Turn off the filter when finished. Fill in as per the handout.

C. Climbing Trees

Swedish ladders are a safe and efficient way to climb trees, but it takes time to develop confidence and speed. Base sections must be fastened securely parallel to the trunk. Additional sections can be handed up to you or carried over your shoulder. Sections can be lowered in the same ways. Sometimes sections must be dropped if ladders will not come apart. Do this only if necessary and try to break the ladder's fall by dropping it in some brush. Never stand under a tree when someone is putting on or taking off sections. Use a safety belt at all times. Chain extensions or bungees can be used if the tree is too big for the chain on the ladders. Always keep the chain tight. Trees that are very large, lean, or have limbs below the cavity present special problems-consult a biologist if you have questions.

D. Nest Check Data Sheet

Section to be revised per use of tablet computers.

E. Banding Nestlings and Adults

Once nestlings are discovered and aged, plan the next nest check so that the young are the ideal age for banding. Begin with Day 0 for aging purposes. The object of the capture procedure is to place a monofilament loop over some part of the bird, ideally the neck, draw it tight, and gently pull the bird from the cavity. Capturing nestlings with a puller requires patience and experience. Keep pullers clean at all times. Use of cornstarch keeps the filaments lubricated. Make sure all loose cornstarch is tapped away as it could harm nestlings by clogging their respiratory tract. Nestlings are captured and banded between day 7 and day 9. Banding nestlings older than 10 days old is prohibited. Nestlings of this age are not easily hurt regardless of where they are snagged since their bones are not fully ossified and feathers have not erupted. Only trained personnel capture nestlings. Each nestling is to be banded with three color bands (representing the cluster) on the right leg, and a color band and a USFWS silver band (representing the individual) on the left leg. It

may be necessary to band nestlings that are younger than 7 days old. Because the legs are shorter at these ages, it may require that the bands be filed in order for them to fit on the leg. If this is the case, the band that is next to the foot should never be filed as this may result in a toe hung situation.

While their eyes are closed (up to 8-9 days), nestlings respond to shadows across the cavity entrance by begging for food. This makes them fairly easy to catch by placing a hand over the entrance as you insert the puller. Nestlings become harder to catch as they get older and once their eyes open. They may "spook" and flatten against the bottom of the cavity. You must work a puller loop under them or hope to snag a wing or head.

Nestlings must be kept warm and dry by placing them in a pouch once pulled. Leave the puller in the entrance cavity to deter adults from entering the cavity once nestlings are pulled. Do not drop or leave them in direct sunlight. Record any injuries on nest check sheet. Band and weigh the nestlings on the ground in a clear, shaded area. Weigh each nestling using bag and pesola scale. Make sure to subtract the weight of the bag to get nestling weight and record on banding sheet. Be careful when applying bands, especially aluminum bands (always put on last). If a band is not opened properly, it may close lopsided, crushing or cutting the leg. Such bands are difficult to remove. Record any injuries on nest check sheet. Before banding, make sure you have the correct band colors, and that the individual colors you are choosing have not been used before. This can be determined by checking the colors used for the site in the banding section. After banding and weighing, check the bands for correctness and make sure you recorded all information correctly. It is very easy to band a bird wrong. Nestlings should be returned to cavity rear end first.

Adults are banded in the same manor, with three color bands on the right leg and one color band and one USFWS band on the left leg. These combinations are found on the banding section on the tablet computers for each cluster. Once captured, take the bird back to the vehicle for banding or to where ever banding equipment is located. It may be necessary to carry banding equipment to a particular tree. When banding adults, the bird should be held with forefinger and thumb forming a circle around the neck and the other fingers supporting the body. Color bands are applied first and the USFWS band last. Always double-check to make sure bands were applied correctly. Adults are weighed and released. Care should be taken when releasing the bird to let the bird go so that it will fly into a forested area. Never let the bird go in an opening. Also, pay attention to the possibility of predators in the area. Hawks have been known to snatch a bird right after it was released. A bird can also be released by placing it directly on to the bole of a pine tree. If a banded bird is recaptured, note combination and USFWS number and immediately release the bird. Replace faded color bands or bands that have fallen off as necessary. Sappy USFWS bands can be scraped clean using a band applicator. Extreme care should be taken when removing bands. Legs can easily be injured or broken.

A single person may raise up to 2 poles on their own as long as the trees are reasonably close together. One pole should be manned and the other attached to the tree using bungee or some other means to secure the pole to the tree and the net must be a closure-type net. All poles with extensions must be manned. If ladders need to be used to catch a bird, there must be 2 people present.

Unbanded adults may be caught and banded 2 weeks after a nest fledges or July 1 for clusters that do not nest or have failed and not renested by this date.

F. Banding Sheet

Section to be revised for tablet computer use.

G. Rechecks

One recheck should be scheduled to determine sex of the nestlings. This check is done at day 18-20. Peep the nest tree and look for a red patch on the head of nestlings. Males will have the patch and females will not. Record the number of each sex observed. If the nest has failed, then the cluster is put back in to the nest check rotation. Do not peep a nest if the nestlings are 21 days or older as this could cause premature fledging. A second check may be done around day 15 to determine if nestlings are still present or to identify adults, but this check is not mandatory.

H. Fledgling Checks

RCW's usually fledge about day 26-29. Fledging checks should be scheduled as close to these days as possible. Ideally, we would like to see the birds when they first leave the cavity. The longer the fledge check is delayed, the greater the chances some or all fledglings might die before this check. If all potential fledglings in a cluster are not found in the first check, the cluster must be checked again. There are several reasons fledglings may be missed. They often remain frozen in the treetops during their first days after leaving the nest, and can be difficult to impossible to find at this time. Listen for begging sounds when adults enter the area and watch where the adults go. The fledglings are much easier to observe when they begin moving with the group. Still, fledglings may be left some distance from the cluster at roost time. Adults will fly directly back to them when leaving the cluster in the morning and can often be found by following adults at this time. Try to identify all birds in the cluster by band identification. Record all data on the recapture/visual id data section. Spotting scopes are used to identify fledglings.

I. Adult Observations

Adults should be counted and identified whenever encountered. This information should be recorded on recapture/visual id data section. One of our major goals is to determine the number and identity of all group members in each cluster, especially during the breeding season. All adults in a group are rarely at the nest at the same time unless there are only two birds. The group usually moves as a unit after fledging, though a weak bird may lag behind. Large groups may split into subgroups. Do not assume that a bird will be seen again or that adults seen at a nest tree are the same ones with fledglings (sometimes they are not). Record only the number of adults you are sure of. You can indicate the possibility of additional adults in the comments. Do not look up band colors on birds expected to be in an area, it is very easy to see bands you expect to see. Spotting scopes are used to identify adults.

Make sure to do adult ids in active monitoring and recruitment clusters that do not nest. It is important for translocation needs to determine if a cluster contains a potential breeding pair or a single bird.

Also, in non-monitoring clusters where no nest is found, a determination must be made as to whether there is a single bird or a potential breeding pair. This is necessary to determine translocation needs for the fall.

J. Capturing Adults

Adults are captured either at sunrise or sunset. If capturing at sunrise, areas that must be scheduled should be scheduled for two consecutive days. Banding is done only if temperatures are above 40 degrees F. The extension poles must be set up in advance because it is hard to make sure the net is over the cavity when it is dark. You must arrive at the cluster before sunrise as most birds leave their cavities when the sun rises. A few have been known to flush when it is still dark. It is very important that you are quiet when entering the cluster and when you are raising the pole. Loud noises can cause the bird to flush. Be sure to park the vehicle far enough away from the cluster so as not to flush the birds. Turn lights off once you enter the cluster. If capturing at sunset, watch the active trees and see which cavities the birds enter. Poles are set up at as many active trees as can be observed. You must get your net over the cavity within minutes after the bird enters the cavity. Play tape or scrape tree to get the bird to flush. In many cases, if you wait too long, the bird will not flush. If you do not have enough time to capture and band the bird before it gets dark, do not continue to try and capture the bird. It must be light enough for the bird to find its cavity after being banded. If a bird has to roost outside, it is more vulnerable to predators and severe weather.

When setting up nets the day before capturing, make sure the net is centered over the hole. It is best to mark the ground at the point where the end of the pole is set and where the base of the pole is set. Poles should be laid out so that the pole when lifted straight up will be over the hole. If this cannot be done, make sure to record where the pole is in relation to the hole so that the pole can be properly raised. If necessary, use a brush cutter to clear the area around the pole so that the pull-string will not get tangled and inadvertently cause the net to close. Be sure to retighten the blue locks on the extension poles the next morning prior to raising the pole. Sometimes the sections will fall when you raise the net and you will have to try and remeasure the distance to the cavity in the dark. This loud noise can also cause the bird to flush. If necessary, use duct tape to make sure the lock is secure. Make sure the drawstrings are attached before raising the pole and pull it gently closed once you are sure the bird is in the net. The pole should be raised by first placing your foot at the base of the pole to make sure it is secure. Use the same method when lowering the pole so that the base does not slip. It is best to twist the net around the pole as you lower it to ensure that the bird cannot escape. Be sure to lower the net gently to the ground. If the bird hangs in the top of the net and the net does not have a drawstring, try lowering the net by releasing each section and keeping the net against the tree. Tall trees present a difficult challenge. This may require an extra extension or the use of ladders. If this is the case, extreme care must be taken not to harm the bird. A spotter may be necessary in these situations. If ladders are used, get out to the site a little earlier to allow for time to set up. This

must be done in the dark to limit the possibility of flushing the bird. First climb up to the appropriate height on the ladder. This height should be predetermined the day before when setting up to capture. If possible, the person who set up on the tree should do the capture. Once at the proper height, a second person should raise the pole and hand it to the person on the ladder. Once the bird is captured, carefully lower the pole, using a spotter if necessary. Record all data on the banding section of the tablet computer. Never capture an adult if it is raining or if temperature is below 40 degrees F.

If a banded adult is re-captured, note band combinations and USFWS number and immediately release the bird. If bands are too sappy to read, take the bird back to the truck and scrape off sap or replace color bands as necessary. Questionable combinations can be looked up on the tablet computers. Searches can also be done on the band number.

One person can set up and capture off of multiple trees if a) poles do not have extensions, b) poles are within visual site of the bander, c) unmanned poles are strapped/bungeed to tree, d) bird(s) is (are) caught/banded/released and then bander sets up to catch another bird that has not flushed yet.

Unbanded birds may be captured beginning 2 weeks after the nest fledges or July 1 if the cluster has not nested. Clusters where the nest failed can be captured beginning July 1 if they have not renested. Adults can be captured through 31 March. No adults should be captured during the breeding season.

L. Translocation

As a general rule, only juvenile birds are translocated. The bird to translocate and any birds in the target cluster must be banded. The target cluster should be visited to confirm the need for the juvenile male (in the case of a single female) or a juvenile female (in the case of a single male). Pairs of juveniles may also be translocated to recruitment clusters. The target cluster must have a suitable roosting cavity for each translocated bird. This can be either a natural or artificial cavity. Each cavity should be checked the day prior to translocation to make sure it is empty and/or not being used by another RCW. The cavity is then screened so that no other animal can use it.

The bird to be translocated will be captured in the evening. See Section J for proper capture techniques. After capturing the bird, it is placed in a transport box and taken to the target cluster. The bird is placed into a cavity to roost overnight. The screen should be replaced to assure the bird remains in the cavity overnight. Return to the cluster the next morning and remove the screen when the other bird(s) flush. The cluster should be revisited again that evening to check for roosting. A morning or evening check should be made a week later and for several weeks thereafter to document roosting. If the bird is not seen, nearby clusters should be checked to see if the bird is roosting elsewhere.

When translocating pairs of birds to a new recruitment site, there should be one other site available for each pair translocated. These sites should meet all minimum requirements for a recruitment site and should have at least 4 clean cavities. These cavities can be screened until the birds are released, but screens

must be removed once the birds are released. This gives the birds other nearby opportunities for roosting.

If a non-target RCW is captured, it should be returned to the cavity from which it was caught. Place the bird in a transport box and climb the tree. The birds should be held in the cavity by placing a screen, hand or some other object over the entrance until the bird settles down. This should be a minimum of 15 minutes. Descend the tree as quietly as possible so as not to flush the bird.

Each translocation should be documented via a Memorandum For Record for end of the year reporting purposes.

Safety Guidelines

Trucks

Each truck should have:

1. A well stocked first aid kit
2. A fully charged fire extinguisher
3. A radio with at least 1 back up battery
4. Binoculars/Spotting Scope
5. An intact spare tire
6. Water
7. Fire fighting equipment-rakes, flaps, and water bag

Climbing Swedish ladders and banding birds

No one should:

1. Climb in the rain.
2. Climb when the belt will not fit around the tree while standing on the ground, unless an extension is added.
3. Climb alone.
4. Band nestlings unless trained by a certified instructor.
5. Band adults until having been supervised in banding 10 adults by a biologist or trained technician.
6. Capture adults if the capture nets are wet.
7. Capture adults if it is raining or the temperature is below 40 degrees F.
8. Capture adults if it is getting dark (causing the birds to roost outside).

Michael G. Barron
Wildlife Biologist
Conservation Branch

APPENDIX D

TRANSORMATION / BASE REALIGNMENT AND CLOSURE ACCESS PLAN

Transformation/BRAC Access Plan

A strategy for maintaining mandated levels of land management and endangered species monitoring while meeting training mission requirements

1. PURPOSE. This plan outlines protocols for obtaining and scheduling access to ranges, training facilities and training areas on Ft. Benning for training, forestry management, endangered species monitoring and all other activities. This plan is designed to facilitate and deconflict access among users especially resulting from increased training needs due to Transformation/ BRAC actions. Specifically, this document satisfies the US Fish and Wildlife Service (USFWS) requirement for a 'Transformation/BRAC Access Plan' as discussed in the 20 August Biological Opinion (BO). This plan and its implementation meet the non-discretionary requirements presented in 'Terms and Conditions' paragraph 4 associated with 'Reasonable and Prudent Measures' paragraph 4 of said document.

2. GENERAL. The use of ranges, training facilities and training areas and associated airspace on the reservation for any purpose requires the approval of range control, Director of Plans, Training, Mobilization and Security (DPTM). All requests to schedule ranges, training facilities, training areas, target systems support and appropriate airspace will be submitted to range control using the automated Range Facility Management Support System (RFMSS). Emergency access requirements, such as for Threatened and Endangered Species (TES) evaluation resulting from a down-range fire in a cluster area will continue to occur as defined in USAIC Regulation 210-4, Paragraph 5-21 (Control of Forest Fires).

3. SCHEDULING PRIORITIES. Power Projection Platform Missions, such as the CONUS Replacement Center (CRC) and deploying units have preemptive scheduling priority over all other activities. Where sharing is possible, units or activities executing these missions should attempt to share only that portion of the range or training facility scheduled for use by another unit or activity absolutely necessary to accomplish the required training. To facilitate allocation of all training support resources, priorities for scheduling ranges, training facilities and training areas are shown below.

a. U.S. Army Infantry School / U.S. Army Armor School Program of Instruction training (Includes BCTB and OSUT)

b. Western Hemisphere Institute for Security Cooperation (WHINSEC)

c. 75th Ranger Regiment

d. All other units, FORSCOM, USAIC Tenant and non-tenant units.

e. Externally evaluated battalion Army Training and Evaluation Programs (ARTEPs) and annual Tank and Bradley gunnery (two periods per year) have preemptive scheduling priorities if these events are clearly stated in the unit's annual training plan and previously coordinated with operations and Training Division, DOT and activities listed above. These priorities are valid until 13 weeks prior to the event in the scheduling process. After that time, no priorities exist and remaining unscheduled ranges, training facilities and training area are scheduled on a first come first served basis. After the 13 weeks, units desiring to schedule training areas scheduled by Ft. Benning Conservation Branch (FBCB) and Ft. Benning Land Management Branch

(FBLMB) will be required to get a collocation with FBCB/FBLMB before the unit can be scheduled in the training area(s). **Under no circumstances will a unit be scheduled over FBCB/FBLMB without a collocation or agreement with FBCB/FBLMB.**

4. SCHEDULING REQUIREMENTS. **Units should schedule ranges based on the actual caliber of weapon that will be employed for that day's training event and the actual projected timeframe of use.** This will minimize access limitations due to Surface Danger Zones (SDZ) and alleviate some conflict with other users on a daily basis.

5. PARTIAL ACCESS. In the case that an SDZ covers only a small portion of a training compartment, **Range Control may grant 'partial access' to a specified area for purposes of endangered species monitoring and forestry management** where activities do not pose a safety hazard.

6. FBCB/FBLMB REQUIREMENTS

a. The 20 August Biological Opinion (BO) requires that FBCB monitor 100% of Red-cockaded Woodpecker (RCW) clusters directly impacted by projects (i.e. experiencing habitat removal and/or cavity tree loss) as well as all clusters indirectly impacted (i.e. clusters within 0.5 miles of range projects or 200 feet of road projects). This mandate results in the addition of approximately 40 clusters to FBCB's demographic monitoring requirement. Ft. Benning is also required to monitor numerous clusters as a routine element of demographic monitoring that will experience access limitations resulting from new and current SDZs.

    (1). Monitoring involves frequent visits to each cluster to confirm activity status, perform nest and fledge checks, band nestlings and to identify band combinations of individuals. Management practices involve herbicide application, cavity installation and maintenance, as examples. In addition, habitat monitoring must be conducted at regular intervals to assess impacts from training operations.

b. According to the RCW Recovery Plan, nest checks must be performed on a 7 to 10 day basis until a nest is found and the age of the nestlings determined. Nestlings must be banded 7-8 days after hatching. These activities average 30 minutes to 1 hour per event. Fledgling checks should be conducted at approximately 26 days after hatching and no later than 40 days after hatching. This event can take from 1 to 3 hours. If the timing of a survey, nest check, banding event, or fledge check becomes critical, FBCB should be allowed access into areas for the purpose of completing the activity. A check fire or firing time extension will be granted by Range Control for said event, as described in paragraph 8 below.

c. The BO requires that 90,000 acres of current and potential RCW habitat be prescribed burned on a return interval of three years (a minimum of 90,000 acres in any three consecutive years).

d. Wildfire Suppression: FBLMB personnel must have access to assess and manage wildfires that may occur to protect RCW trees, other sensitive habitats, personnel, assets, or for smoke management.

e. According to the BO, pine stands will be thinned (harvested) in such a way as to achieve sufficient habitat for RCWs. This is achieved by a commercial timber harvest and can require considerable amount of time to complete.

(1). Before timber harvesting FBLMB personnel must have access to complete a forest inventory for the RCW habitat matrix and to mark the timber for harvest.

(2). Areas harvested for regeneration will require chemical herbicide application and will need to burned for site preparation. Following site preparation, longleaf pine trees will be planted.

7. FBCB/FBLMB LIMITATIONS RESULTING FROM INCREASED TRAINING

a. Area availability is anticipated to become a functional limitation for RCW monitoring. SDZs resulting from other ranges (i.e. Transformation/BRAC associated ranges such as the Stationary Tank Ranges, Multi-purpose Machine Gun Ranges, Multi-purpose Training Range and Qualification Training Range) will increase current access constraints by prohibiting entry into the area of FBCB/FBLMB personnel. In addition to numerous clusters already monitored, the majority of the BRAC/Transformation impacted clusters will experience access limitations as a result of new SDZs and other restrictions. Examples are the 8-11 clusters under new Oscar Range SDZs, 15-20 clusters under new Alpha area SDZs, and ~20 clusters covered by SDZs in the northeastern Kilo areas. Lack of access to critical areas will impede the ability of FBCB to carry out all required RCW monitoring and management activities within the available hours afforded by training operations.

b. As a result of timber harvest needed to facilitate the construction of BRAC/Transformation projects, the workload of FBLMB will increase considerably. In addition, FBLMB will need to implement more intensive habitat management in more areas of the installation in order to meet RCW recovery requirements. These areas will conflict with SDZs resulting from increased number of training ranges.

8. FIRING TIMES.

a. **The Malone/Oscar Range complexes will not be allowed to open prior to 0900 from 1 October to 30 April and prior to 0800 from 1 May to 30 September. During this time, FBCB/FBLMB personnel will have clearance to enter the Malone/Oscar range complexes to conduct RCW monitoring after receiving clearance from range control radio room.** Personnel must clear the area prior to times listed above. Personnel must notify range control radio room when they have cleared the area.

b. **During the breeding season (1 April-July 31) for the RCW, if it becomes critical (day and time) FBCB/FBLMB may request an extension of the opening time for the ranges in order for FBCB/FBLMB to complete the survey.** FBCB/FBLMB must report to the radio room how much more time is needed in order for them to complete the survey. In those cases where the requirement is known in advance FBCB/FBLMB will notify Range Control 48 hours prior so units may be notified of the time extension.

c. The period 1200-1300 daily is normally used to change out targets and perform other down range activities. However, these activities must be confirmed daily with range control radio room prior to 1100 to allow affected ranges to be placed on check fire. **During the breeding season (1 April-July 31) for the RCW if it becomes critical (day and time) FBCB/FBLMB may request through range control radio room ranges be placed on check fire from 1200-1300 to allow access to the area to complete required activities.** Personnel must notify range control radio room when they have cleared the area so the

check fire can be lifted and units may resume training. Same procedures apply here as in paragraph 8a above.

c. For all other ranges including those for which SDZs cover the Alpha and Kilo compartments, a check fire or request for a later opening time for these ranges may be coordinated with the using units at the weekly range and terrain coordination meeting. This meeting is conducted every Thursday at 1330 at building 5510, Range operations Center. **If day and time becomes critical, FBCB/FBLMB personnel may request a check fire or later opening time through range control radio room to allow time for completion of the required activities.** In cases where more time is required to complete activities, same procedures apply here as in paragraph 8a above.

d. Access to clusters covered by the SDZ resulting from the Digital Multi-purpose Range Complex (DMPRC) was discussed in the 22 July 2004 Biological Opinion and associated Access Plan.

e. In other training facilities or training areas not affected by SDZs, FBCB/FBLMB personnel may coordinate collocations with the scheduled training unit at the weekly range and terrain coordination meeting discussed in paragraph 8c above or through the RFMSS system.

e. **In the case that RCW and/or forest management actions are not being completed as required by the U.S. Fish and Wildlife Service (USFWS) BO, priority may be given to FBCB/FBLMB for scheduling operations.** If approved by the Installation G-3, FBCB/FBLMB mandated activities will be given priority over unit training, except deploying unit training, to the point that minimal requirements of the BO can be met within designated time frames. The FBCB/FBLMB Chiefs will track progress for meeting compliance with the BO. When a potential shortfall is anticipated because of scheduling problems, a meeting between Chiefs of Range Division, Land Management Branch and Conservation Branch and the USFWS West Georgia Sub-Office Supervisor will occur to schedule needed RCW management activities or to develop and present the issues and recommendations to the Installation G-3 and DPTM for approval of necessary priority over training missions. The Service should be notified within 24 hours if a BRAC BO requirement cannot be accomplished due to a training conflict. If the issue is not resolved under the conflict structure as described, the Service will submit a letter to the Army to reinitiate Formal Consultation.

9. FOREST OPERATIONS.

a. Timber harvest and other forest operations will continue to be scheduled using RFMSS. At 13 weeks, those training compartments not scheduled for training or other operations may be scheduled for timber harvest or other forest operations (i.e. replanting, control burns, etc). **In cases where the training compartment(s) are scheduled for training or other operations, FBCB/FBLMB may coordinate a co-location with the scheduled unit at the Weekly Range and Terrain Coordination Meeting or through the RFMSS system.** If the scheduled unit grants a co-location, forest operations must not interfere with training or pose a safety hazard to the training unit. Forest operations may not be scheduled in those training compartments covered by SDZs when the ranges are firing.

10. IMPACT AREA. Limited access to those areas like the A-20 Dud Impact Area will continue under the rules Ft. Benning has in-place currently. **The limited annual assessment of specific clusters will be permitted with the appropriate escort provided by the Chief of**

Range Division. The Safety Patrol personnel will be sufficiently trained and the escort may be augmented with Explosive Ordinance Detachment (EOD) support. The level of EOD support will be determined based on risk assessment made by the Chief of Range Division during the annual coordination for access to those specified cluster areas.

11. FBCB/FBLMB STEPS TO ALLEVIATE ACCESS CONFLICTS. In order to address access issues, FBCB/FBLMB will re-evaluate management practices, increase staff as needed and implement reasonable alternatives that ensure compliance with ESA requirements while responding to increased training needs.

a. In an effort to increase capabilities, FBLMB has streamlined the timber harvest contract process, which will allow more flexibility in moving loggers in and out of areas as to not interfere with training.

b. While implementation cannot be guaranteed, FBCB will consider the following alterations to the current monitoring plan: reduction in total number of recruitment clusters monitored and alteration of spring inspection procedures to coincide with minimum recommendations outlined in the RCW Recovery Plan. For Ft. Benning's current population size of 250-349 Potential Breeding Groups (PBG), 100% of clusters will be monitored for activity status bi-annually (or 50% annually). 33% of clusters will be monitored for PBG (nest checks) annually and recruitment clusters may be monitored for 5 years post activation.

c. Although not anticipated, FBLMB will increase staff if needed to complete required management actions. FBCB will expand its staff to facilitate increased monitoring requirements and, in 2007, added one Wildlife Biologist to assess impacts from BRAC/Transformation projects. One full time and, potentially, one seasonal technician will be brought on as early as 2008.

d. It is predicted that staff will operate under flexible and variable schedules to correspond with available daylight access. Weekend and holiday scheduling is anticipated to eliminate conflicts with training activities.

12. Proposed sub-division of range compartments (a non-discretionary term and condition of the 20 August BO) to reflect current 'burn units' as described by FBLMB will likely alleviate many access conflicts and increase scheduling flexibility by allowing users to schedule smaller, more specific areas. This will safely and more efficiently segregate training from land management actions and endangered species monitoring.

13. This plan, when implemented, is a living document and will be updated/ changed as required to ensure training can be conducted while simultaneously meeting all requirements of the USFWS BO.

REFERENCES

1996 Management Guidelines for the Red-cockaded Woodpecker on Army Installations.

Endangered Species Management Plan dated 27 September 2002.

Integrated FBCB/FBLMB Management Plan (INRMP) dated 10 September 2001.

USAIC Regulation 210-4, Range and Terrain Regulation dated 11 May 2005.

US Fish & Wildlife Service. 2003. Recovery Plan for the Red-cockaded Woodpecker: Second Revision. USFWS, Atlanta, GA. 296 pp.

US Fish & Wildlife Service BRAC/Transformation Biological Opinion dated 20 August 2007.

US Fish & Wildlife Service Digital Multi-purpose Range Complex Biological Opinion dated 22 July 2004.

APPENDIX E

METHODOLGY USED TO OBTAIN BEATEN ZONE DATA FOR THE TRANSFORMATION EIS AND THE MCOE EIS

PURPOSE: To establish documentation on the methods used to obtain "beaten zone" data for the Base Realignment and Closure (BRAC)- Transformation Environmental Impact Statement (EIS) and the Maneuver Center of Excellence (MCOE) EIS.

GENERAL: There is no exact science to obtain beaten zone data before that zone is created by firing on a range. In order to gauge the true effects of munitions on the environment, the munitions are fired under varying conditions until the true effects are seen. Any beaten zone data that is required prior to this is calculated using the best technical methods available at the time. The beaten zone is estimated based on several factors. The proposed location of the range project, the type and quantity of munitions planned to be fired, and the type vegetation and surrounding terrain are some of the factors. This data is subject to change as the process of designing the range is refined. Based on inability to depict the "true" surface danger zone or "beaten zone" without knowing exact locations of firing points and targets at the time of the BRAC - Transformation EIS, the best technology available was used to create "worst case" scenarios for the proposed range projects. This data was provided to the Environmental Management Division (EMD) to be used in development of a Biological Assessment (BA) for the new range projects, and factored into the final EIS.

SCOPE: The best technical method available to create the beaten zone data for the BRAC-Transformation EIS was as follows:

1. The standard surface danger zone (SDZ) for the specific type of range was used based on data from DA PAM 385-63 (Range Safety) in relation to a range 'footprint'.
2. Because an SDZ does not represent the beaten area, the scale has been reduced, and areas outside the anticipated beaten area such as the ricochet area and/or area "A" are omitted. The method used to determine this reduced "beaten zone" is generally described in Army Regulation (AR) AR 385-63, Range Safety,19 May 2003. That method is used to assist in planning of range function, layout, design and most importantly serves as the basis for development of Surface Danger Zones which provide minimally safe containment of all rounds, possible ricochets and fragmentation.
3. Once these areas were removed from the SDZ, the distance that a given projectile would travel was factored in to determine how far the beaten zone would extend down range. The method used to calculate this data comes from a study done at Fort A.P. Hill, Virginia. The study is titled "Down Range Land Condition Study" by Jason Applegate and was conducted in May 2005.

These three factors have been used as the best available technology when ranges have not been designed and no munitions have been fired.

During the MCOE EIS, the method described above was used to calculate beaten zones for range projects that are new or were not looked at during the BRAC-Transformation EIS. This process, with additional capabilities resulting from delivery of 1-foot contour resolution; improved Range Manger Tool-Kit (Automated SDZ Plotting) tools; 3-dimensional line of sight capability are now the best available technology for projects not yet designed. Some projects that were looked at during the BRAC-Transformation EIS

require a second look due to slight relocation or minor scope changes. These projects are at or near 100% design. With better technologies and GIS capabilities, we can create a more accurate estimates of the beaten zone. For range projects that fit this category the following method is used to create the beaten zone:

1. The Computer Aided Design (CAD) file (that depicts the relationship of the firing positions to the targets on the range, and all support structures) is inserted onto the Geographical Information System (GIS) data of the range footprint.
2. Using the completed range picture in GIS, a line of site (LOS) analysis is conducted from each firing point to each target on that range.
3. The down range land condition range factors (described in #3 above) is applied, unless there is a berm or natural backstop that will keep the projectile from going down range, and a more technically correct depiction of a beaten area is developed.

Based on the utility tools available, the procedure described above will result in a more accurate beaten zone estimate.

CLOSING: Variations in beaten zone data between projects in the BRAC - Transformation EIS and the MCOE EIS are the result of the availability of the best information at the time the data is requested. The calculations used to obtain beaten zone data for both EIS's remains the same unless the range project is at or near design completion. Once design data becomes available, more accurate beaten zone data can be created and forwarded to EMD.

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Range Officer
Fort Benning, Georgia

SDZ Downrange Distance Calculations: % based on munitions:

9mm; AT4 Trainer / X=1600m
Beaten Area: 20%
Adjusted X=320m

.38cal / X=1806m
Beaten Area: 20%
Adjusted X=372m

5.56; Ball / X=3437m
Beaten Area:
Adjusted X=700m

7.62; Ball M80 / X=4100m
Beaten Area: 38%
Adjusted X=1558m

25mm; TP-T M793 / X=4792m
Beaten Area: 38%
Adjusted X=1821m

40mm; TP / X=2095m
Beaten Area: 50%
Adjusted X=1047m

.50cal; AP_M2 / X=6100m
Beaten Area: 50%
Adjusted X=3050m

.50cal; Ball / X=6500m
Beaten Area: 50%
Adjusted X=3250m

.50cal; SLAP-T M962 / X=9778m
Beaten Area: 50%
Adjusted X=4889m

120mm; M831 / X=6589m
Beaten Area: 50%
Adjusted X=3295m

120mm; M865 / X=7234m
Beaten Area: 50%
Adjusted X=3617m

APPENDIX F

FORT BENNINGS'S OFF-PROPERTY HABITAT PROTECTION AND MANAGEMENT

FORT BENNING'S OFF PROPERTY HABITAT PROTECTION AND MANAGEMENT

Army Compatible Use Buffer (ACUB) Program

Perhaps the most promising program for lessening the environmental constraints on the Installation is the ACUB program. ACUB supports the Army's responsibility as a Federal agency to comply with all environmental regulations, including endangered species habitat protection. By working in partnership with conservation organizations, ACUB can coordinate habitat conservation planning at the ecosystem level to ensure that greater benefits are realized towards species and habitat recovery.

- Reduce training restrictions
- Meet Endangered Species Act recovery responsibilities
- Prevent development along installation boundaries
- Preclude the need to list future Threatened and Endangered species

In the face of increasing urban sprawl, Department of Defense (DoD) developed the Readiness and Environmental Protection Initiative (REPI), a multi-level effort designed to ensure the future use training land by addressing issues of potential encroachment on military training. Congress provides DoD with funding for compatible land use efforts under the Conservation Buffer Program. The REPI program was established as a way for DoD to implement the authority provided by Congress in Section 2684a of Title 10 United States Code which allows the Services to enter into agreements with private conservation organizations or with state and local governments. These agreements allow installations to cost-share the acquisition from willing sellers of land or interest in land by the partner in order to preserve high-quality habitat and limit incompatible development around installations. The Office of the Secretary of Defense oversees the program and allocates funding to the Services to help implement these projects.

The Army has implemented the REPI Program through its ACUB Program. The ACUB program represents a powerful tool and unique opportunity to work in partnership with state and local governments, and/or conservation groups to achieve a common goal of establishing buffer areas outside the installation boundary. This program allows the Army to work with partners to protect habitat and training land without using the lengthy and complicated acquisition process.

The overall management responsibility for the ACUB programs resides within the Office of the Assistant Chief of Staff for Installation Management who also provides funding for

projects in addition to that received by the Office of the Secretary of Defense. Proposals for Active Army Installations are validated by the Army Range Sustainment Integration Council and prioritized for funding by the Office of Deputy Chief of Staff G/3/5/7.

Fort Benning currently has an approved ACUB program, and with its ACUB partner The Nature Conservancy (TNC), is pursuing options for protecting land around its boundaries to be used as a buffer between military activities onsite and surrounding agricultural, residential or industrial land uses in the community and to assist Fort Benning in achieving its conservation goals. Projects completed or underway thus far include fee purchase of lands (to be sold to "conservation buyers" encumbered with a permanent conservation easement), purchase of conservation easements from existing landowners, and donations of conservation easements from existing landowners. In each case, the land transaction is undertaken by TNC using ACUB funding and some partner funding or in-kind assistance where possible (W. Harrison, TNC, pers. comm.).

There are no active RCW clusters near Fort Benning that are within the average RCW dispersal distance that can be counted as part of the Fort Benning RCW Primary Core recovery population. There is habitat adjacent to or near the Installation that could become RCW habitat capable of supporting RCWs which in the future could potentially be counted toward the Fort Benning RCW population goal.

TNC, through a cooperative agreement with Research, Development and Engineering Command, is responsible for the implementation of the program and received its first ACUB funding in 2006. TNC has already protected five parcels (comprising approximately 2,800 acres) through a variety of ACUB-compliant real estate transactions, and is negotiating to protect some 2,300 additional acres with several thousand more acres on the immediate horizon (W. Harrison, TNC, unpublished report). The ACUB program has the ability to secure significant quantities of habitat for RCWs and other protected species off-post.

In addition to ACUB, many other organizations and programs are actively conserving habitat in the Fort Benning area, including Georgia Department of Natural Resources, Alabama Department of Conservation and Natural Resources, Georgia Department of Highways, The Conservation Fund, several land trusts and Forest Legacy.

The Southeast Regional Partnership for Planning and Sustainability (SERPPAS) is a more regional initiative comprised of multiple agencies and organizations. One of the goals of

this initiative is restoring longleaf pine and increasing RCW populations across the Southeast, partially to lessen the recovery obligations of military installations. This long-term initiative could be valuable in protecting potential RCW habitat in the Fort Benning area.

The Army, SERPPAS, the United States Fish and Wildlife Service, TNC and other organizations have a common interest in preserving undeveloped land in the Fort Benning area to increase the long-term stability of the Fort Benning Primary Core RCW Population. The logistics and details of this initiative, such as feasibility of landowner incentives for endangered species management on private lands, are currently being discussed amongst the above-listed organizations.

Appendix G. Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
A06-01	1022	INA	1	…	A and B
	1023	INA	1	…	
	2951	INA	1	…	
	2954	INA	1	…	
	2955	INA	1	…	
	3626A	INA	4	…	
	3627A	INA	4	…	
	3756A	ACT	4	…	
	3757A	INA	4	…	
	4831	INA	1	…	
	5510	ACT	1	2007 - 2008	
	5851	ACT	1	…	
A07-01	2521	INA	1	…	A and B
	3479A	ACT	4	…	
	3480A	INA	4	…	
	3481A	INA	4	…	
	3482A	INA	4	…	
	4880	ACT	1	2006 - 2008	
	5000	INA	1	…	
A08-01	0290	INA	1	…	A and B
	0566	ACT	1	…	
	0567	INA	1	…	
	1644	INA	2	…	
	1645	ACT	1	2004 - 2008	
	1841	INA	1	…	
	1842	INA	2	…	
	2164	INA	1	…	
	2498	INA	2	…	
	3950	ACT	1	…	
	4710	ACT	1	…	
A08-02a	1046	INA	1	…	A and B
	3494	ACT	1	…	
	3988	INA	2	…	
	4531	ACT	2	…	
	4532	INA	1	…	
	4783	ACT	1	…	
	4784	ACT	1	…	
	4785	ACT	1	…	
	5070	ACT	1	2007 - 2008	
A08-03	2941	INA	1	…	A and B
	2942	INA	1	…	
	3248	INA	1	…	
	3639	INA	1	…	
	4194	ACT	1	…	
	4597	INA	1	…	
	4822	ACT	1	2006 - 2008	
	5537	INA	1	…	
	5882	ACT	1	…	
	5883	ACT	1	…	

Activity Status

ACT	Active
INA	Inactive

Stage

1	Natural Cavity	3	Drilled Cavity	5	Drilled Start
2	Natural Start	4	Insert Cavity	N/A	Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
A08-04	1079	INA	1	…	A and B
	3700	ACT	2	…	
	3980	INA	1	…	
	4934A	ACT	4	…	
	4935A	ACT	4	…	
	5069	INA	1	…	
	5550	ACT	1	…	
	5742	ACT	1	2008	
	5884	ACT	1	…	
	5885	ACT	1	…	
A09-03R	1541	INA	1	…	A and B
	2554A	ACT	4	…	
	2563A	ACT	4	…	
	2564A	ACT	4	…	
	4197	INA	1	…	
	4456	INA	2	…	
	4821	INA	2	…	
	4854	ACT	1	2007 - 2008	
	4858	INA	2	…	
	4859	INA	2	…	
A09-04R	4657A	ACT	1	2007 - 2008	A and B
	4658A	ACT	4	…	
	4659A	INA	4	…	
	4660A	ACT	4	…	
	5690	ACT	2	…	
A09-05	4855	INA	2	…	A and B
	4856	ACT	1	…	
	4857	ACT	1	2005 - 2008	
	5267A	ACT	4	…	
	5268A	ACT	4	…	
	5269	ACT	1	…	
A14-03R	0866	ACT	1	…	B
	3412A	INA	3	…	
	4204	ACT	1	…	
	4267A	INA	4	…	
	5551	ACT	1	2007 - 2008	
A17-01	5616A	ACT	4	…	A and B
	5617A	ACT	4	…	
	5618	ACT	1	…	
	5619	INA	1	…	
	5787	ACT	1	2008	
A17-02	3563	ACT	1	…	A and B
	4329	INA	1	…	
	4751A	ACT	4	…	
	4752A	INA	4	…	
	4846	INA	1	…	
	5753	ACT	1	2008	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
A17-03	1694	INA	1	…	A and B
	2192	INA	1	…	
	4243	ACT	1	…	
	4511	ACT	1	…	
	4716	INA	1	…	
	4853	ACT	1	…	
	5071	INA	2	…	
	5072	INA	2	…	
	5389	ACT	1	2008	
	5390	INA	2	…	
A17-04	2468	ACT	1	…	B
	2801	INA	1	…	
	4134	INA	1	…	
	4196	ACT	1	…	
	4310	ACT	1	…	
	4311	INA	2	…	
	4327	INA	2	…	
	4328	ACT	2	…	
	5599	ACT	1	2007 - 2008	
A17-05	0921	INA	1	…	B
	0922	ACT	1	2008	
	2768	INA	1	…	
	2948	ACT	1	…	
	2963	INA	1	…	
	2964	INA	1	…	
	3709	ACT	1	…	
	4365	ACT	1	…	
	5620	INA	2	…	
A17-06	0320	INA	1	…	A and B
	2802	INA	2	…	
	3329	INA	1	…	
	3432	ACT	1	…	
	3630	INA	2	…	
	3681	INA	2	…	
	4512	ACT	2	…	
	4513	ACT	1	…	
	4514	INA	2	…	
	4515	INA	2	…	
	4516	ACT	1	…	
	4782	ACT	1	…	
	5621	ACT	1	2008	
A17-07	4330	INA	1	…	B
	4364	ACT	1	…	
	4727	ACT	1	…	
	4728	ACT	1	…	
	4729	ACT	1	…	
	5169	INA	1	…	
	5560	ACT	1	2006 - 2008	
	5786	ACT	1	…	
A17-08	3692A	INA	4	…	A and B
	3949	INA	1	…	
	4245	ACT	1	…	
	4933	INA	1	…	
	5073	ACT	1	2007 - 2008	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
A17-11R	2405	INA	1	…	A and B
	2545A	ACT	4	…	
	2547A	ACT	4	2007 - 2008	
	2548A	ACT	4	…	
	3308A	INA	5	…	
	3680	INA	1	…	
	4201	INA	2	…	
	4560	ACT	1	…	
	4845	INA	2	…	
	5391	ACT	1	…	
A17-12R	3664A	ACT	4	2007 - 2008	A and B
	3667A	ACT	4	…	
	4200	ACT	2	…	
	4249A	ACT	4	…	
	4879A	ACT	4	…	
	5392	ACT	2	…	
A17-13	3628	INA	1	…	A and B
	3845A	INA	4	…	
	3846A	INA	4	…	
	3847A	ACT	4	…	
	4234	ACT	1	…	
	4235	ACT	1	…	
	4781A	ACT	4	…	
	4860	INA	1	…	
	5388	ACT	1	…	
	5880	ACT	1	2008	
A17-14a	4246	INA	1	…	A and B
	4251A	ACT	4	…	
	4252A	ACT	4	…	
	4253A	INA	4	…	
	5721	ACT	1	2008	
	5854	ACT	1	…	
	5855	ACT	2	…	
	5856	ACT	2	…	
A17-14b	4247	ACT	1	…	B
	4248	ACT	1	2008	
A20-04	1915	INA	1	…	A and B
	1916	INA	1	…	
	3689	INA	1	…	
	4219	INA	1	…	
	4220	INA	1	…	
	4226	INA	1	…	
	4977A	ACT	4	…	
	4978A	ACT	4	2008	
A20-06	3734	INA	2	…	A and B
	3735	INA	1	…	
	4217	INA	2	…	
	4453A	ACT	4	…	
	4454A	ACT	4	…	
	4455A	INA	4	…	
	5394	ACT	1	…	
	5878	ACT	1	2006 - 2008	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
BB03-01R	4653A	INA	4	…	A and B
	4654A	ACT	4	…	
	4656A	INA	4	…	
	4830	INA	2	…	
	4911	INA	2	…	
	5264A	ACT	4	…	
	5265	ACT	1	2007 - 2008	
	5492	INA	2	…	
BB04-01R	3753A	ACT	3	2008	A and B
	3754A	INA	3	…	
	3755A	INA	3	…	
	4242A	INA	4	…	
	4255	ACT	1	…	
	4256	INA	1	…	
	4832	INA	2	…	
	5153	INA	2	…	
BB05-O1R	4629A	INA	4	…	A and B
	4630A	INA	4	…	
	4631A	ACT	4	…	
	5266A	INA	4	…	
	5452	ACT	1	2006 - 2008	
C01-02	0591	INA	1	…	B
	1660	INA	2	…	
	2287	INA	1	…	
	2298	INA	1	…	
	2299	INA	2	…	
	2977	INA	1	…	
	3940	ACT	1	…	
	4183	INA	1	…	
	4307	ACT	1	…	
	4308	ACT	1	2008	
	4510	INA	2	…	
	4786	ACT	1	…	
	5535	ACT	1	…	
C01-03	0124	INA	1	…	A and B
	0587	ACT	1	…	
	0588	INA	1	…	
	1975	ACT	1	2008	
	2151	INA	2	…	
	2856	INA	2	…	
	4764A	ACT	4	…	
	4765A	ACT	4	…	
	5382	ACT	1	…	
	5685	ACT	2	…	
	5686	ACT	2	…	
	5744	ACT	2	…	
CO1-06	2972	INA	1	…	A and B
	4264A	ACT	4	…	
	4265A	INA	4	…	
	4266A	INA	4	…	
	5066	ACT	1	…	
	5101	INA	1	…	
	5516	INA	1	…	
	5879	ACT	1	2008	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
C02-02	2499	INA	1	…	B
	2965	INA	1	…	
	3381	INA	1	…	
	3886	INA	1	…	
	4615	INA	1	…	
	4696	INA	1	…	
	4793	ACT	1	2007 - 2008	
	5455	ACT	2	…	
	5687	ACT	2	…	
D05-02R	4645A	INA	4	…	A and B
	4646A	INA	4	…	
	4648A	ACT	4	…	
	5270A	INA	4	…	
	5657	ACT	1	2008	
D05-04R	5408A	ACT	3	…	A and B
	5409A	ACT	3	…	
	5410A	ACT	4	…	
	5411A	ACT	4	2006 - 2008	
D06-01R	4068A	INA	4	…	A and B
	4069A	INA	4	…	
	4070A	ACT	4	…	
	4071A	ACT	4	…	
	4811	INA	1	…	
	4864	INA	2	…	
	5853	ACT	1	2008	
D08-01R	3150A	INA	4	…	A and B
	3151A	ACT	4	2008	
	4388A	INA	4	…	
	4389A	INA	4	…	
	5214	INA	2	…	
	5215	INA	2	…	
	5488A	ACT	4	…	
D10-01	2327	INA	1	…	A and B
	2823	INA	1	…	
	2868	INA	1	…	
	4004	INA	1	…	
	4826	INA	1	…	
	5163	INA	1	…	
	5224	INA	2	…	
	5441	ACT	1	…	
	5461A	ACT	4	2006 - 2008	
	5761A	ACT	4	…	
	5762A	ACT	4	…	
D11-01	1855	INA	1	…	A and B
	2477	INA	1	…	
	3380	INA	1	…	
	3967A	INA	4	…	
	4237A	ACT	4	…	
	4238A	INA	4	…	
	5464	ACT	1	…	
	5591	ACT	1	2007 - 2008	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
D11-02	3852A	ACT	4	…	A and B
	3853A	ACT	4	…	
	4240A	INA	4	…	
	4517	INA	1	…	
	5476	INA	1	…	
	5655	INA	1	…	
	5697	ACT	1	2007 - 2008	
D12-01	2305	INA	1	…	A and B
	2325	INA	1	…	
	2926	INA	1	…	
	3655	INA	1	…	
	4863	INA	1	…	
	5068	INA	2	…	
	5595	ACT	1	…	
	5763A	ACT	4	2008	
	5764A	INA	4	…	
D16-01	2761A	ACT	5	…	A and B
	3776A	ACT	4	2007 - 2008	
	3777A	ACT	4	…	
	3778A	INA	2	…	
	3779A	INA	4	…	
	5813A	INA	5	…	
	5814A	INA	3	…	
	5903	ACT	1	…	
D16-02	2418	INA	1	…	A and B
	2973	ACT	1	2004 - 2008	
	3450A	INA	4	…	
	3451A	INA	4	…	
	4574	INA	2	…	
	4575A	ACT	4	…	
	4576A	INA	4	…	
D17-01	2018	INA	1	…	A and B
	2019	INA	1	…	
	2417	INA	2	…	
	3650	INA	1	…	
	3651A	ACT	4	…	
	4161	INA	1	…	
	5162	ACT	1	2007 - 2008	
	5614	INA	1	…	
	5615	ACT	1	…	
	5652	ACT	1	…	
D17-03	3237	INA	1	…	A and B
	3239	INA	2	…	
	3823A	ACT	4	…	
	3824A	INA	4	…	
	3951	ACT	1	2008	
	4941A	ACT	4	…	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
D17-04R	2637A	INA	4	…	A and B
	2638A	INA	4	…	
	2639A	INA	5	…	
	2673A	ACT	1	…	
	2676A	INA	4	…	
	4523	INA	1	…	
	4942A	ACT	4	…	
	5012	INA	1	…	
	5273	INA	1	…	
	5605	ACT	1	…	
	5865	ACT	1	…	
E02-01	1084	ACT	1	…	A and B
	4390	ACT	1	…	
	4530	ACT	1	…	
	4598	INA	1	…	
	5473A	ACT	4	2007 - 2008	
	5841A	INA	3	…	
	5842A	INA	3	…	
E04-01	0180	INA	1	…	A and B
	2804	INA	1	…	
	3957	INA	1	…	
	3958	INA	2	…	
	4459	INA	1	…	
	5108	ACT	1	2008	
	5109	INA	1	…	
	5185	ACT	1	…	
F01-02R	4632A	INA	4	…	A and B
	4633A	INA	4	…	
	4634A	INA	4	…	
	4635A	INA	4	…	
F02-01R	3465A	ACT	4	…	A and B
	3466A	ACT	4	…	
	3467A	ACT	4	…	
	4083A	ACT	4	2008	
	5681	ACT	2	…	
HCC-01R	4397A	INA	4	…	A and B
	4417A	INA	4	…	
	4418A	INA	4	…	
HCC-08R	0430	INA	1	…	A and B
	1308	INA	1	…	
	4958A	INA	4	…	
	4959A	ACT	4	…	
	4960A	ACT	4	2008	
	4961A	INA	4	…	
HCC-10R	4429A	ACT	4	…	A and B
	4430A	INA	4	…	
	4431A	ACT	4	…	
	4432A	ACT	4	2001 - 2008	
	5688	ACT	1	…	
	5689	ACT	2	…	
	5743	INA	1	…	
	5803	ACT	4	…	
	5804A	INA	4	…	
	5805	ACT	2	…	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
HCC-11R	4058A	INA	4	…	A and B
	4059A	INA	4	…	
	4060A	ACT	4	…	
	4061A	ACT	4	…	
	5384	ACT	1	…	
	5385	ACT	1	2005 - 2008	
	5538	INA	1	…	
	5672	ACT	2		
J01-02R	3622A	ACT	4	…	A and B
	3623A	INA	4	…	
	3748A	INA	4	…	
	3803A	INA	4	…	
	5659	ACT	1	2007 - 2008	
	5834A	INA	5		
J02-02R	2683A	INA	5	…	A and B
	2685A	ACT	4	…	
	2686A	ACT	4	…	
	2687A	INA	4	…	
	2688A	ACT	4	…	
	5204	ACT	2	…	
	5489	INA	1	…	
	5511	ACT	1	2008	
	5691	ACT	1	…	
J03-02R	2697A	INA	4	…	A and B
	2698A	INA	4	…	
	2699A	INA	4	…	
	2700A	INA	4	…	
J06-03	0684	INA	1	…	A and B
	0685	INA	1	…	
	2489	INA	1	…	
	2815	INA	1	…	
	3995	ACT	1	…	
	4797A	INA	4	…	
	4798A	INA	4	…	
	5733	INA	1	…	
	5863	ACT	1	2008	
	5864	ACT	2	…	
K01-01R	4604A	INA	4	…	A and B
	4605A	INA	4	…	
	4606A	INA	4	…	
	4607A	INA	4	…	
K02-01	1617	ACT	1	2008	A and B
	3900A	ACT	4	…	
	3901A	INA	4	…	
	4772A	ACT	4	…	
	5720	ACT	1	…	
	5871	INA	1	…	
K03-01R	4616A	INA	4	…	A and B
	4617A	INA	4	…	
	4618A	INA	4	…	
	4619A	INA	4	…	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
K05-01R	4331A	INA	4	…	A and B
	4332A	INA	4	…	
	4333A	INA	4	…	
	4334A	INA	4	…	
K08-03	4967A	INA	4	…	A and B
	4968A	ACT	4	…	
	5407	INA	1	…	
	5439	ACT	1	…	
	5440	ACT	2	2008	
K08-04	2937	INA	1	…	A and B
	2938	ACT	1	2005 - 2008	
	4258	INA	1	…	
	4561A	INA	4	…	
	4562A	INA	4	…	
	4571	ACT	1	…	
	5901	ACT	1		
K09-01	1970	INA	1	…	A and B
	2463	INA	2	…	
	4936A	ACT	4	…	
	4937A	INA	4	…	
	4987A	ACT	3	2005 - 2008	
	5083A	ACT	3	…	
K09-02R	3405A	ACT	4	2008	A and B
	3414A	INA	4	…	
	3415A	ACT	4	…	
	3751A	ACT	4	…	
	5287A	INA	4	…	
	5825A	INA	3	…	
K09-03R	4409A	INA	4	…	A and B
	4410A	INA	4	…	
	4411A	ACT	4	2008	
	4412A	INA	4	…	
	5170	ACT	1	…	
	5730	ACT	2	…	
	5826A	INA	3	…	
K11-02	1064	INA	1	…	A and B
	2595A	ACT	4	…	
	2596A	INA	4	…	
	2620A	ACT	4	…	
	2621A	INA	4	…	
	2737A	ACT	4	…	
	3656	INA	1	…	
	3688	INA	2	…	
	3788A	ACT	4	2008	
	4852	INA	2	…	
	5211	ACT	2	…	
	5284	ACT	2	…	
	5434	ACT	1	…	
K11-04R	3416A	ACT	4	…	A and B
	3417A	ACT	4	…	
	3418A	INA	4	…	
	3787A	ACT	4	2007 - 2008	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
K12-01	2462	INA	2	…	A and B
	4690	INA	1	…	
	4909A	ACT	4	…	
	4910A	ACT	4	…	
	4985A	INA	3	…	
	4986A	ACT	3	2008	
	5675	INA	1	…	
K13-02	3514	INA	1	…	A and B
	3544A	INA	4	…	
	4943A	ACT	4	…	
	4944A	ACT	4	…	
	4945A	INA	4	…	
	4946A	ACT	4	…	
	5433	INA	1	…	
	5844	ACT	1	2008	
K13-04	3059	INA	1	…	A and B
	3086A	ACT	4	…	
	3087A	INA	4	…	
	4686	INA	1	…	
	4687	INA	1	…	
	4809	ACT	1	2007 - 2008	
	5674A	INA	3	…	
	5678A	ACT	4	…	
	5731	ACT	1	…	
	5852	ACT	1	…	
K13-05R	3766A	ACT	4	…	A and B
	3767A	ACT	4	…	
	3935A	ACT	4	2008	
	4555A	ACT	4	…	
	4556A	INA	4	…	
	4825	INA	2	…	
	5038	INA	1	…	
	5459	INA	1	…	
K13-06	5092A	INA	4	…	A and B
	5093A	ACT	4	2007 - 2008	
	5094A	INA	4	…	
	5399	ACT	1	…	
	5438	ACT	2	…	
K21-02R	4399A	INA	4	…	A and B
	4400A	ACT	4	…	
	4401A	ACT	4	…	
	4402A	ACT	4	…	
	5213	INA	2	…	
	5456	ACT	1	2006 - 2008	
K21-05R	5666A	INA	4	…	A and B
	5667A	ACT	4	…	
	5668A	ACT	3	…	
	5669A	ACT	3	2008	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
KPR-01	2896	INA	1	…	A and B
	3527	INA	1	…	
	3792	INA	1	…	
	3960	INA	1	…	
	4207	ACT	1	…	
	4667	INA	1	…	
	4706	INA	1	…	
	5219	INA	1	…	
	5220	INA	1	…	
	5699	ACT	1	…	
	5716	INA	1	…	
	5741	ACT	1	2008	
	5896	ACT	1	…	
	5899	ACT	1	…	
L02-02R	5133A	ACT	3	2008	A and B
	5134A	ACT	3	…	
	5135A	INA	4	…	
	5136A	INA	4	…	
	5771	ACT	2	…	
L03-01	0478	ACT	1	…	A and B
	1947	INA	1	…	
	1948	ACT	1	2006 - 2008	
	1949	INA	1	…	
	2319	INA	2	…	
	3947	INA	2	…	
	5179	INA	2	…	
	5225	ACT	1	…	
	5249	INA	1	…	
M01-01	1813	INA	1	…	A and B
	2808	INA	1	…	
	2809	INA	1	…	
	2862	INA	2	…	
	4211	ACT	1	…	
	4316	ACT	1	2008	
	4345A	ACT	4	…	
	4346A	INA	4	…	
	5116A	ACT	3	…	
	5596	INA	1	…	
M08-01	1039	INA	1	…	A and B
	1040	INA	1	…	
	1884	INA	2	…	
	3349	INA	1	…	
	4895	INA	2	…	
	5003A	ACT	4	…	
	5004A	INA	4	…	
	5533	INA	1	…	
	5722	ACT	1	2008	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
M08-02a	1272	ACT	2	…	A and B
	2121	ACT	2	…	
	2123	ACT	1	2008	
	2124	ACT	1	…	
	2270	INA	2	…	
	3540	ACT	1	…	
	4371A	ACT	1	…	
	4374A	ACT	4	…	
	4375A	INA	4	…	
	4816	ACT	2	…	
	5635	INA	2	…	
M08-02b	3997	INA	1	…	A and B
	5395	ACT	1	…	
	5469	ACT	1	2008	
	5478	ACT	2	…	
	5634	INA	2	…	
M08-04R	4637A	INA	4	…	A and B
	4638A	INA	4	…	
	4639A	ACT	4	2006 - 2008	
	4640A	ACT	4	…	
	5175	INA	1	…	
M08-05R	3407A	INA	4	…	A and B
	3408A	INA	4	…	
	3519A	INA	4	…	
	3520A	ACT	4	…	
	4505	INA	2	…	
	4861	INA	1	…	
	5196	ACT	1	…	
N01-02	3660A	INA	4	…	A and B
	3661A	INA	4	…	
	3662A	INA	4	…	
	3663A	INA	4	…	
	4504	ACT	1	…	
	4673	ACT	1	2007 - 2008	
	4924	ACT	1	…	
O01-01	2000	INA	1	…	A and B
	2310	ACT	1	…	
	2810	INA	1	…	
	2811	ACT	1	…	
	3240	INA	1	…	
	3262	INA	1	…	
	3642	INA	2		
	3801A	INA	4	…	
	3802A	INA	4	…	
	3928	ACT	1	2006 - 2008	
	4842	INA	1	…	
	5448	ACT	1	…	
	5449	INA	1	…	
	5527	INA	1	…	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
O01-02	2923	ACT	2	…	A and B
	3392	INA	1	…	
	4086A	INA	4	…	
	4087A	INA	4	…	
	4779A	ACT	4	…	
	5427	ACT	1	2007 - 2008	
	5636	ACT	1	…	
O01-03	0105	INA	1	…	A and B
	3456A	INA	4	…	
	4966A	INA	4	…	
	4993	INA	1	…	
	5028	INA	1	…	
	5098	ACT	1	…	
	5381	INA	1	…	
	5649	ACT	1	2008	
O01-04R	3914A	INA	4	…	A and B
	3915A	ACT	4	2008	
	3916A	INA	4	…	
	3917A	ACT	4	…	
	4678	INA	2	…	
	4840	ACT	2	…	
O02-01R	2539A	ACT	4	…	A and B
	2555A	INA	4	…	
	2556A	INA	4	…	
	2724A	INA	5	…	
	2726A	ACT	4	2008	
	2727A	ACT	4	…	
	4838	ACT	1	…	
O03-01	0802	INA	1	…	A and B
	1741	ACT	2	…	
	3716	INA	1	…	
	4030	INA	1	…	
	4997	INA	2	…	
	5106A	ACT	3	2005 - 2008	
	5107A	ACT	3	…	
	5520A	ACT	3	…	
	5790	ACT	1	…	
O03-02	1592	INA	1	…	A and B
	1744	INA	2	…	
	2249	INA	1	…	
	3436A	INA	4	…	
	3437A	INA	4	…	
	5005A	ACT	3	…	
	5420A	ACT	3	2006 - 2008	
O03-03	0115	ACT	1	…	A and B
	0116	INA	1	…	
	2337	ACT	1	…	
	2903	INA	2	…	
	3488	ACT	1	2007 - 2008	
	3943	INA	1	…	
	4172	ACT	1	…	
	4570	ACT	1	2008	
	5078	INA	2	…	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
O03-04	0768	INA	1	…	A and B
	1193	INA	1	…	
	2338	INA	2	…	
	2793A	INA	4	…	
	2794A	ACT	4	…	
	2797A	ACT	3	2006 - 2008	
	2798A	INA	5	…	
	2799A	INA	5	…	
	2800A	ACT	5	…	
	3644	INA	2	…	
O03-05	2242	ACT	1	…	A and B
	2243	INA	1	…	
	2244	ACT	1	…	
	2508	ACT	1	…	
	2590A	INA	4	…	
	2591A	INA	4	…	
	2608A	ACT	4	…	
	2720A	INA	5	…	
	2723A	ACT	4	2006 - 2008	
	4573	INA	2	…	
O03-06R	4755A	INA	4	…	A and B
	4756A	INA	4	…	
	4757A	INA	4	…	
	4758A	ACT	4	…	
	5759A	ACT	4	2008	
O03-07	5451	ACT	1	…	A and B
	5498A	ACT	4	…	
	5499A	ACT	4	…	
	5500A	ACT	4	2007 - 2008	
	5671	ACT	2	…	
004-01	1289	INA	1	…	A and B
	2003	ACT	1	…	
	2974	ACT	1	…	
	3645	INA	1	…	
	4595	ACT	1	2007 - 2008	
	4717A	INA	4	…	
	5632	ACT	1	…	
O04-03a	2111	ACT	1	…	A and B
	2558A	INA	4	…	
	2559A	ACT	4	…	
	2560A	INA	4	…	
	3315A	INA	5	…	
	3316A	ACT	2	2008	
	4032	ACT	1	…	
	4596	INA	1	…	
	4702	ACT	1	…	
	5633	ACT	2	…	
O04-03b	4927	ACT	1	2008	A and B
	4957	INA	2	…	
	5061	ACT	1	…	
	5501	ACT	1	…	
	5760	ACT	2	…	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
O05-01	2867	INA	1	…	A and B
	3328	INA	1	…	
	3377	INA	1	…	
	3676	INA	1	…	
	4034	INA	2	…	
	4461	INA	1	…	
	4884	INA	1	…	
	4885	ACT	1	2007 - 2008	
	4892	ACT	1	…	
	5143	INA	1	…	
	5257	INA	1	…	
	5397	ACT	1	…	
	5453	ACT	1	…	
	5507	ACT	2	…	
O05-02	0770	ACT	1	…	A and B
	1726	INA	1	…	
	2250	ACT	1	…	
	2262	ACT	1	2006 - 2008	
	2263	INA	1	…	
	4395A	INA	4	…	
	4913	INA	2	…	
O05-03R	4421A	ACT	4	2008	A and B
	4422A	ACT	4	…	
	4423A	ACT	4	…	
	4424A	INA	4	…	
	5467	INA	1	…	
	5770	ACT	1	2008	
007-01R	0672	ACT	2	…	
	3139A	ACT	4	…	
	3140A	ACT	4	…	A and B
	3141A	INA	4	…	
	4973A	ACT	4	…	
	4974A	INA	4	…	
	5060	ACT	1	…	
	5099	ACT	2	2008	
O07-02R	4588A	INA	4	…	A and B
	4589A	INA	4	…	
	4590A	INA	4	…	
	4591A	INA	4	…	
O07-03R	4391A	ACT	4	2008	A and B
	4392A	ACT	4	…	
	4393A	INA	4	…	
	4394A	INA	4	…	
008-01	2976	INA	2	…	A and B
	3442A	ACT	4	…	
	3443A	ACT	4	…	
	4139	INA	1	…	
	4188	INA	2	…	
	4233	INA	1	…	
	4886	INA	1	…	
	4887	INA	2	…	
	4888	ACT	1	2008	
	4889	INA	2	…	
	4919	ACT	1	…	
	5020	INA	1	…	
	5630	ACT	1	…	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
O08-02	3445A	ACT	4	…	A and B
	3789	INA	2	…	
	4768A	ACT	4	…	
	4769A	ACT	4	…	
	5046	INA	2	…	
	5518	ACT	1	…	
	5750	ACT	2	…	
	5810	ACT	1	2008	
O09-02	1614	INA	4	…	A and B
	3095A	INA	4	…	
	3096A	INA	4	…	
	3098A	ACT	4	…	
	3099A	INA	4	…	
	3232	INA	2	…	
	3938	INA	1	…	
	4836	ACT	1	2007 - 2008	
	5627	ACT	2	2008	
O09-03R	3768A	INA	4	…	A and B
	3769A	INA	4	…	
	3770A	INA	4	…	
	3771A	INA	4	…	
O10-01	2588A	ACT	4	2008	A and B
	2679A	ACT	4	…	
	3617A	INA	4	…	
	3620A	ACT	4	…	
	4524	INA	1	…	
	4525A	ACT	4	…	
	5446	INA	1	…	
	5556	ACT	1	…	
	5752	ACT	1	2008	
O10-02	1566	INA	2	…	A and B
	2459	INA	1	…	
	2905	INA	2	…	
	2907	INA	1	…	
	2947	INA	1	…	
	3817	INA	2	…	
	3922	INA	1	…	
	4261	INA	1	…	
	4529	ACT	1	2008	
	4675	ACT	1	…	
	4703	INA	1	…	
	5447	ACT	1	…	
	5572	INA	2	…	
	5573	ACT	1	…	
O10-03	3825A	ACT	4	…	A and B
	3826A	INA	4	…	
	3827A	INA	4	…	
	4227	INA	1	…	
	5570	INA	2	…	
	5571	ACT	1	…	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
O10-04	2860	INA	2	…	A and B
	3163A	ACT	4	…	
	3165A	INA	4	…	
	4189	INA	1	…	
	4742	ACT	1	2007 - 2008	
	4743	INA	1	…	
	5574	ACT	1	…	
	5751	ACT	1	…	
	5768	ACT	2	…	
O11-01	0223	ACT	1	…	A and B
	0225	INA	1	…	
	0806	INA	1	…	
	0809	INA	1	…	
	0810	INA	1	…	
	1850	INA	1	…	
	1851	INA	1	…	
	3327	INA	2	…	
	3532	ACT	1	…	
	4228	ACT	1	…	
	4506	ACT	1	…	
	5142	INA	1	…	
	5425	ACT	1	2008	
	5426	INA	2	…	
	5769	ACT	1	…	
O11-02R	3918A	INA	4	…	A and B
	3919A	ACT	4	…	
	3920A	ACT	4	…	
	3921A	INA	4	…	
O12-02	0482	ACT	1	…	A
	0485	INA	1	…	
	2551A	INA	4	…	
	2552A	ACT	4	…	
	2569A	INA	4	…	
	2570A	INA	4	…	
	4170	ACT	1	2007 - 2008	
	4741	ACT	1	…	
O12-04	3780A	INA	4	…	A and B
	3781A	INA	4	…	
	3782A	INA	4	…	
	3783A	INA	4	…	
	5197	INA	2	…	
O13-01	2145	INA	2	…	A and B
	3120A	INA	4	…	
	3121A	INA	4	…	
	3122A	ACT	4	…	
	3123A	INA	4	…	
	5026	ACT	2	…	
	5027	INA	1	…	
	5176	INA	2	…	
	5177	INA	1	…	
	5198	ACT	1	2007 - 2008	
	5530	INA	1	…	
	5683	ACT	1	…	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
O13-02	3103A	ACT	4	…	A
	3104A	INA	4	…	
	3106A	INA	4	…	
	3107A	ACT	4	…	
	3213A	INA	1	…	
	3214A	ACT	6	2007 - 2008	
	3939	ACT	2	…	
	4003	ACT	1	…	
	5251	ACT	1	…	
O13-05	1681	INA	1	…	A and B
	1956	INA	1	…	
	2497	INA	1	…	
	4666	INA	1	…	
	4760A	INA	4	…	
	4761A	INA	4	…	
O13-06R	1987	INA	1	…	A and B
	2314	ACT	2	…	
	3205A	INA	4	…	
	3206A	ACT	4	…	
	3207A	ACT	4	…	
	3208A	ACT	4	2007 - 2008	
	3209A	INA	5	…	
	5002A	ACT	4	…	
	5250	INA	1	…	
	5684	INA	2	…	
O14-01	0312	INA	1	…	A
	2342	INA	2	…	
	2343	INA	1	…	
	2344	ACT	1	2007 - 2008	
	2345	INA	2	…	
	2510	INA	1	…	
	2888	INA	2	…	
	3812	INA	2		
	4105	INA	2	…	
	4762A	ACT	4	…	
	4763A	ACT	4	…	
	5529	INA	1	…	
O14-02	2320	INA	2	…	A
	3236	ACT	1	…	
	3430	INA	2	…	
	3446A	INA	4	…	
	3703	INA	1	…	
	3715	ACT	1	…	
	3970	ACT	1	2008	
	4507	INA	2	…	
	4508	ACT	2	…	
	4680	INA	2	…	
	4844	INA	2	…	
	5424	INA	1	…	
	5788	ACT	1	…	
	5789	ACT	1	…	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
O14-03R	4116A	ACT	4	…	A and B
	4117A	INA	4	…	
	4118A	ACT	4	…	
	4119A	ACT	4	…	
	4274A	ACT	4	2007 - 2008	
	4275A	INA	5	…	
	4759A	INA	4	…	
	4827	INA	1	…	
	4862	INA	2	…	
	5234	ACT	2	…	
	5237	INA	2	…	
O15-01	1996	INA	2	…	A and B
	3615A	INA	4	…	
	3616A	INA	4	…	
	4026	INA	2	…	
	4372A	INA	4	…	
	4373A	INA	4	…	
	5554	ACT	1	…	
	5555	ACT	1	2007 - 2008	
	5637	INA	2	…	
	5638	ACT	2	…	
	5639	ACT	2	…	
O15-02	0785	ACT	1	2001 - 2008	A
	0814	INA	1	…	
	1568	ACT	1	…	
	3530	ACT	1	…	
	3614A	INA	4	…	
	4021	ACT	1	…	
	4677	INA	2	…	
O15-03	0506	INA	1	…	A and B
	0509	INA	1	…	
	2004	ACT	1	…	
	3706	INA	1	…	
	3731	INA	1	…	
	4022	INA	1	…	
	4262	INA	2	…	
	4396A	INA	4	…	
	4996	ACT	1	2007 - 2008	
	5157	ACT	1	…	
	5528	ACT	1	…	
Q02-02	0378	INA	1	…	A and B
	0379	ACT	1	…	
	2515	INA	1	…	
	2885	INA	1	…	
	4222	ACT	1	2004 - 2008	
	4224	INA	1	…	
	4257	INA	2	…	
	4843	INA	2	…	
	5244	ACT	1	…	
	5670	ACT	1	…	
	5766	ACT	2	…	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
Q02-03	2790A	ACT	4	…	B
	2792A	ACT	4	…	
	2884	ACT	1	…	
	3175A	ACT	4	…	
	3178A	INA	5	…	
	3346	ACT	1	2007 - 2008	
	3347	INA	1	…	
	3888	INA	2	…	
	5057	INA	1	…	
	5575	INA	2	…	
Q02-04R	4050A	ACT	4	…	A and B
	4051A	ACT	4	…	
	4052A	ACT	4	…	
	5052	ACT	1	…	
	5450	ACT	1	2007 - 2008	
	5622	INA	2	…	
R01-01	2135	INA	1	…	A and B
	3227	INA	1	…	
	3360	INA	2	…	
	4103	INA	2	…	
	4661A	INA	4	…	
	4662A	ACT	4	…	
	4681	ACT	1	2008	
	4682	INA	2	…	
	4975A	ACT	4	…	
	4976A	ACT	4	…	
	5491	ACT	2	…	
	5740	INA	1	…	
	5846	ACT	1	…	
R01-02R	2613A	INA	4	…	A and B
	2614A	INA	4	…	
	2632A	INA	4	…	
	2633A	INA	4	…	
	5609A	INA	4	…	
	5610A	INA	3	…	
	5611A	INA	4	…	
	5612A	INA	3	…	
R01-03R	2650A	INA	4	…	A and B
	2652A	INA	5	…	
	2654A	INA	4	…	
	2655A	INA	5	…	
	2657A	ACT	4	…	
	3902A	ACT	4	2008	
	4027	INA	1	…	
	4691	INA	1	…	
	4711	INA	1	…	
	4833	INA	1	…	
	4912	INA	1	…	
	5054	INA	1	…	
	5867	ACT	1	2008	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

Appendix G (cont'd). Red-cockaded woodpecker (RCW) cavity trees associated with clusters impacted by 2008-2012 Alternatives A and B MCOE projects, Fort Benning Military Installation, Georgia.

Compartment - Cluster	Tag Number	Activity	Stage	Nest Tree History	Cluster Impacted by Alternative A and/ or B
R02-01R	4413A	INA	4	…	A and B
	4414A	INA	4	…	
	4415A	INA	4	…	
	4416A	INA	4	…	
	5055	ACT	1	2007 - 2008	
	5466	ACT	1	…	
S01-01	2806	INA	1	…	A and B
	2807	INA	2	…	
	3337	INA	1	…	
	3338	INA	1	…	
	3366	INA	1	…	
	5053	ACT	1	…	
	5606	ACT	2	2008	
	5660	ACT	1	…	
S02-01R	2534A	INA	4	…	A and B
	2634A	INA	4	…	
	2635A	INA	4	…	
	4305	INA	2	…	
	4306	INA	1	…	
	4699	INA	1	…	
	4796	INA	1	…	
	4914	INA	1	…	
	4921	ACT	1	…	
	5067	INA	1	…	
	5663	ACT	1	2008	
	5665	ACT	1	…	
	5735	ACT	1	…	
S03-01R	5416A	INA	4	…	A and B
	5417A	INA	4	…	
	5418A	ACT	3	2008	
	5419A	ACT	3	…	
SHC-01R	3245	INA	1	…	A and B
SHC-02	0884	INA	1	…	A and B
	0885	INA	1	…	
	1893	INA	1	…	
	4894	INA	1	…	
	4898	INA	2	…	
	4929A	INA	4	…	
	4932A	ACT	3	…	
T02-01	5494A	ACT	3	…	A and B
	5495A	ACT	3	…	
	5496A	INA	4	…	
	5497A	ACT	3	2008	
T02-02R	4443A	INA	4	…	A and B
	4444A	INA	4	…	
	4445A	INA	4	…	
	4446A	INA	4	…	
	4787	ACT	1	…	
	5040	INA	1	…	
	5075	INA	2	…	
	5712	ACT	1	…	
	5848	ACT	1	2008	

Activity Status

ACT Active
INA Inactive

Stage

1 Natural Cavity
2 Natural Start
3 Drilled Cavity
4 Insert Cavity
5 Drilled Start
N/A Not Available

APPENDIX H

RED-COCKADED WOODPECKER (RCW) FORAGING ANALYSIS TABLES FOR THE STANDARD FOR MANAGED STABILITY (SMS) AND RECOVERY STANDARDS (RS), ALTERNATIVES A AND B, MANEUVER CENTER OF EXCELLENCE PROJECTS

Appendix Table H-1. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A06-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems >14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Forested Acreage (within A20 Impact Area)	Future Potential Acreage	Future Potential BA
A0613	153.64	57	21	31.05	8.00	30.23	22.00	17.93	24.00	5.42	1.31	0.22	1.50	46.00	55.50	1	14	3	3	2	1	153.64	7,067.44			
A0701	1.36	14	21	28.38	10.00	40.55	30.00	12.91	15.00	0.00	0.00	0.00	0.00	45.00	55.00	5	30	0	3	2	0				1.36	61.20
A0706	31.17	56	25	42.34	12.00	17.22	12.50	5.72	8.50	9.97	2.18	1.51	4.50	21.00	37.50	1	43	14	3	2	0				31.17	654.57
A0713	1.19	54	31	5.93	2.00	9.51	7.50	5.41	8.00	2.98	2.23	4.32	7.50	15.50	25.00	1	47	31	3	2	0				1.19	18.45
A2001	35.23	80	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0			35.23		
	222.59																					**153.64**	**7,067.44**	**35.23**	**33.72**	**734.22**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Forested Acreage (within A20 Impact Area) Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0613	2010	65557	Repair Existing Training Area Roads, Phase 1	1.79	82.34			
A0701	2010	65557	Repair Existing Training Area Roads, Phase 1				0.05	2.25
A0706	2010	65557	Repair Existing Training Area Roads, Phase 1				0.58	12.18
			TOTAL REMOVALS	**1.79**	**82.34**	**0.00**	**0.63**	**14.43**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**151.85**	**6,985.10**
Forested Habitat	**35.23**	**0.00**
Future Potential Habitat	**33.09**	**719.79**
TOTAL	**220.17**	**7,704.89**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
25 = Mixed Pine
31 = Loblolly Pine

Appendix Table H-2. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A06-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgi

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Forested Acreage (within A20 Impact Area)	Future Potential Acreage	Future Potential BA
A0613	153.64	57	21	31.05	8.00	30.23	22.00	17.93	24.00	5.42	1.31	0.22	1.50	46.00	55.50	1	14	3	3	2	3.92	PS				153.64	7,067.44
A0701	1.36	14	21	28.38	10.00	40.55	30.00	12.91	15.00	0.00	0.00	0.00	0.00	45.00	55.00	5	30	0	3	2	3.32	NH				1.36	61.20
A0706	31.17	56	25	42.34	12.00	17.22	12.50	5.72	8.50	9.97	2.18	1.51	4.50	21.00	37.50	1	43	14	3	2	3.70	PS				31.17	654.57
A0713	1.19	54	31	5.93	2.00	9.51	7.50	5.41	8.00	2.98	2.23	4.32	7.50	15.50	25.00	1	47	31	3	2	3.53	PS				1.19	18.45
A2001	35.23	80	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	2.47	PS			35.23		
	222.59																						**0.00**	**0.00**	**35.23**	**187.36**	**7,801.66**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Forested Acreage (within A20 Impact Area) Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0613	2010	65557	Repair Existing Training Area Roads, Phase 1				1.79	82.34
A0701	2010	65557	Repair Existing Training Area Roads, Phase 1				0.05	2.25
A0706	2010	65557	Repair Existing Training Area Roads, Phase 1				0.58	12.18
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**2.42**	**96.77**

POST-PROJECT

	2010 Acres	2010 BA
Suitable Habitat	**0.00**	**0.00**
Forested Habitat	**35.23**	**0.00**
Future Potential Habitat	**184.94**	**7,704.89**
TOTAL	**220.17**	**7,704.89**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Type Burn:
0=no data available
1=non-growing season
2=growing season

Forest Type:
21 = Longleaf Pine
25 = Mixed Pine
31 = Loblolly Pine

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Appendix Table H-3. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A07-01, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10"	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0706	17.11	56	25	42.34	12.00	17.22	12.50	5.72	8.50	9.97	2.18	1.51	4.50	21.00	37.50	1	43	14	3	2	0					17.11	359.31
A0708	70.49	73	21	23.62	6.00	12.48	8.50	12.47	20.50	3.84	2.34	0.70	2.50	29.00	37.50	1	41	11	3	2	0					70.49	2,044.21
A0709	52.84	54	31	31.84	9.47	20.81	15.26	9.63	13.16	8.74	0.00	2.04	4.21	28.42	42.11	1	22	6	3	2	0					52.84	1,501.71
A0711	16.54	49	26	34.26	10.00	29.29	20.00	10.07	14.00	7.44	0.00	0.23	0.50	34.00	44.50	1	43	1	3	1	1	16.54	562.36				
A0713	6.75	54	31	5.93	2.00	9.51	7.50	5.41	8.00	2.98	2.23	4.32	7.50	15.50	25.00	1	47	31	3	2	0					6.75	104.63
A0715	1.97	91	21	30.53	11.00	29.41	21.00	18.01	25.00	8.35	2.15	3.62	6.50	46.00	63.50	1	27	11	3	2	1	1.97	90.62				
A0716	13.14	24	57**	16.77	4.00	4.19	3.00	0.00	0.00	31.20	9.94	4.57	12.00	3.00	19.00	1	24	78	3	2	0					0.00	0.00
A0717	2.03	75	21	17.40	5.00	18.37	13.50	13.11	19.00	9.41	0.00	1.38	3.00	32.50	40.50	1	19	4	3	2	1	2.03	65.98				
A0720	15.05	39	31	23.87	8.00	31.91	22.50	12.73	17.00	0.00	0.00	0.00	0.00	39.50	47.50	1	42	0	3	1	1	15.05	594.48				
pp546*	0.25	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.25	0.00
	196.17																					**35.59**	**1,313.44**	**0.00**	**0.00**	**147.44**	**4,009.86**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0706	2010	65557	Repair Existing Training Area Roads, Phase 1					0.31	6.51
A0708	2010	65557	Repair Existing Training Area Roads, Phase 1					2.34	67.86
A0709	2010	65557	Repair Existing Training Area Roads, Phase 1					6.52	185.30
A0711	2010	65557	Repair Existing Training Area Roads, Phase 1	2.96	100.64				
pp546*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.25	0.00
			TOTAL REMOVALS	**2.96**	**100.64**	**0.00**	**0.00**	**9.42**	**259.67**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**32.63**	**1,212.80**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**138.02**	**3,750.19**
TOTAL	**170.65**	**4,962.99**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
57* *= Scrub Oak (not managed)

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Appendix Table H-4. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A07-01, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgi

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0706	17.11	56	25	42.34	12.00	17.22	12.50	5.72	8.50	9.97	2.18	1.51	4.50	21.00	37.50	1	43	14	3	2	3.70	PS					17.11	359.31
A0708	70.49	73	21	23.62	6.00	12.48	8.50	12.47	20.50	3.84	2.34	0.70	2.50	29.00	37.50	1	41	11	3	2	4.52	PS					70.49	2,044.21
A0709	52.84	54	31	31.84	9.47	20.81	15.26	9.63	13.16	8.74	0.00	2.04	4.21	28.42	42.11	1	22	6	3	2	3.95	PS					52.84	1,501.71
A0711	16.54	49	26	34.26	10.00	29.29	20.00	10.07	14.00	7.44	0.00	0.23	0.50	34.00	44.50	1	43	1	3	1	3.87	PS					16.54	562.36
A0713	6.75	54	31	5.93	2.00	9.51	7.50	5.41	8.00	2.98	2.23	4.32	7.50	15.50	25.00	1	47	31	3	2	3.53	PS					6.75	104.63
A0715	1.97	91	21	30.53	11.00	29.41	21.00	18.01	25.00	8.35	2.15	3.62	6.50	46.00	63.50	1	27	11	3	2	4.68	PS			1.97	90.62		
A0716	13.14	24	57**	16.77	4.00	4.19	3.00	0.00	0.00	31.20	9.94	4.57	12.00	3.00	19.00	1	24	78	3	2	2.62	NH					0.00	0.00
A0717	2.03	75	21	17.40	5.00	18.37	13.50	13.11	19.00	9.41	0.00	1.38	3.00	32.50	40.50	1	19	4	3	2	4.30	PS					2.03	65.98
A0720	15.05	39	31	23.87	8.00	31.91	22.50	12.73	17.00	0.00	0.00	0.00	0.00	39.50	47.50	1	42	0	3	1	3.92	PS					15.05	594.48
pp546*	0.25	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.25	0.00
	196.17																						**0.00**	**0.00**	**1.97**	**90.62**	**181.06**	**5,232.68**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0706	2010	65557	Repair Existing Training Area Roads, Phase 1					0.31	6.51
A0708	2010	65557	Repair Existing Training Area Roads, Phase 1					2.34	67.86
A0709	2010	65557	Repair Existing Training Area Roads, Phase 1					6.52	185.30
A0711	2010	65557	Repair Existing Training Area Roads, Phase 1					2.96	100.64
pp546*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.25	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**12.38**	**360.31**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**1.97**	**90.62**
Future Potential Habitat	**168.68**	**4,872.37**
TOTAL	**170.65**	**4,962.99**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
57* *= Scrub Oak (not managed)

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Appendix Table H-5. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A08-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgi

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0811	103.36	80	26	28.66	9.00	21.05	14.00	16.29	27.00	0.00	0.97	0.57	1.50	41.00	51.50	1	37	4	3	1	1	103.36	4,237.76				
A0902	0.96	53	31	36.77	9.50	25.21	19.00	12.56	16.50	0.00	1.16	0.00	1.00	35.50	46.00	2	33	3	3	1	1	0.96	34.08				
EE0215	15.43	81	31	18.88	6.00	11.86	8.50	10.15	15.50	2.86	5.42	5.08	13.00	24.00	43.00	8	23	32	3	1	0					15.43	370.32
EE0218	7.97	84	21	20.51	6.50	7.43	5.00	17.77	34.50	2.29	0.00	0.00	0.00	39.50	46.00	1	40	0	3	1	1	7.97	314.82				
EE0227	38.89	84	31	20.94	4.00	2.24	2.00	16.91	36.00	8.29	1.30	0.89	2.50	38.00	44.50	6	28	10	3	1	0			38.89	1,477.82		
pp304*	6.76	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					6.76	0.00
pp305*	1.01	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.01	0.00
pp306*	0.96	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.96	0.00
pp346*	3.49	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.49	0.00
Q0102	6.14	92	31	54.17	16.67	14.59	10.00	13.35	25.00	4.66	0.00	0.00	0.00	35.00	51.67	8	27	0	3	1	0			6.14	214.90		
Q0104	0.44	39	31	61.62	15.71	28.57	20.00	11.05	17.14	7.61	4.15	2.77	8.57	37.14	61.43	8	33	15	3	1	0			0.44	16.34		
Q0110	0.31	48	13	115.02	26.67	19.71	13.33	6.55	8.33	15.82	10.34	0.00	6.67	21.67	55.00	1	24	28	3	1	0					0.31	6.72
Q0114	1.51	58	31	26.88	8.00	31.74	23.50	12.83	17.50	6.98	0.59	0.00	0.50	41.00	49.50	2	30	1	3	1	1	1.51	61.91				
	187.23																					**113.80**	**4,648.57**	**45.47**	**1,709.06**	**27.96**	**377.04**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0811	2009	69358	Range Access Road - Good Hope MTA	1.76	72.16				
A0902	2009	69358	Range Access Road - Good Hope MTA	0.17	6.04				
EE0215	2009	69358	Range Access Road - Good Hope MTA					0.43	10.32
EE0215	2009	67457	Infrastructure Support - Utilities					0.97	23.28
EE0218	2009	67457	Infrastructure Support - Utilities	1.33	52.54				
EE0227	2009	69358	Range Access Road - Good Hope MTA			1.16	44.08		
pp304*	2009	67457	Infrastructure Support - Utilities					0.40	0.00
pp305*	2009	67457	Infrastructure Support - Utilities					0.03	0.00
			TOTAL REMOVALS	**3.26**	**130.74**	**1.16**	**44.08**	**1.83**	**33.60**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**110.54**	**4,517.83**
Potentially Suitable Habitat	**44.31**	**1,664.98**
Future Potential Habitat	**26.13**	**343.44**
TOTAL	**180.98**	**6,526.25**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Appendix Table H-6. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A08-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgi

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0811	103.36	80	26	28.66	9.00	21.05	14.00	16.29	27.00	0.00	0.97	0.57	1.50	41.00	51.50	1	37	4	3	1	4.57	PS					103.36	4,237.76
A0902	0.96	53	31	36.77	9.50	25.21	19.00	12.56	16.50	0.00	1.16	0.00	1.00	35.50	46.00	2	33	3	3	1	4.08	PS					0.96	34.08
EE0215	15.43	81	31	18.88	6.00	11.86	8.50	10.15	15.50	2.86	5.42	5.08	13.00	24.00	43.00	8	23	32	3	1	3.46	PS					15.43	370.32
EE0218	7.97	84	21	20.51	6.50	7.43	5.00	17.77	34.50	2.29	0.00	0.00	0.00	39.50	46.00	1	40	0	3	1	4.53	PS					7.97	314.82
EE0227	38.89	84	31	20.94	4.00	2.24	2.00	16.91	36.00	8.29	1.30	0.89	2.50	38.00	44.50	6	28	10	3	1	4.14	PS					38.89	1,477.82
pp304*	6.76	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					6.76	0.00
pp305*	1.01	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.01	0.00
pp306*	0.96	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.96	0.00
pp346*	3.49	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.49	0.00
Q0102	6.14	92	31	54.17	16.67	14.59	10.00	13.35	25.00	4.66	0.00	0.00	0.00	35.00	51.67	8	27	0	3	1	4.00	PS					6.14	214.90
Q0104	0.44	39	31	61.62	15.71	28.57	20.00	11.05	17.14	7.61	4.15	2.77	8.57	37.14	61.43	8	33	15	3	1	3.35	PS					0.44	16.34
Q0110	0.31	48	13	115.02	26.67	19.71	13.33	6.55	8.33	15.82	10.34	0.00	6.67	21.67	55.00	1	24	28	3	1	2.75	PS					0.31	6.72
Q0114	1.51	58	31	26.88	8.00	31.74	23.50	12.83	17.50	6.98	0.59	0.00	0.50	41.00	49.50	2	30	1	3	1	4.14	PS					1.51	61.91
	187.23																						**0.00**	**0.00**	**0.00**	**0.00**	**187.23**	**6,734.67**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0811	2009	69358	Range Access Road - Good Hope MTA					1.76	72.16
A0902	2009	69358	Range Access Road - Good Hope MTA					0.17	6.04
EE0215	2009	69358	Range Access Road - Good Hope MTA					0.43	10.32
EE0215	2009	67457	Infrastructure Support - Utilities					0.97	23.28
EE0218	2009	67457	Infrastructure Support - Utilities					1.33	52.54
EE0227	2009	69358	Range Access Road - Good Hope MTA					1.16	44.08
pp304*	2009	67457	Infrastructure Support - Utilities					0.40	0.00
pp305*	2009	67457	Infrastructure Support - Utilities					0.03	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**6.25**	**208.42**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**180.98**	**6,526.25**
TOTAL	**180.98**	**6,526.25**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Appendix Table H-7. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A08-02a**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia. Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine B A 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0804	38.58	57	21	31.74	9.00	15.09	10.50	17.29	24.50	5.29	1.09	1.41	3.50	35.00	47.50	1	30	7	3	1	1	38.58	1,350.30				
A0807	42.92	80	21	21.12	6.50	9.44	6.50	18.95	29.50	8.78	0.00	0.00	0.00	36.00	42.50	2	31	0	3	1	1	42.92	1,545.12				
A0811	0.88	80	26	28.66	9.00	21.05	14.00	16.29	27.00	0.00	0.97	0.57	1.50	41.00	51.50	1	37	4	3	1	1	0.00	0.00				
EE0117	6.85	83	21	17.08	5.00	13.92	10.50	23.21	32.50	1.18	0.94	0.79	2.00	43.00	50.00	8	12	4	3	1	0			6.85	294.55		
EE0208	2.99	57	31	2.83	1.05	7.49	5.79	13.97	21.58	3.65	5.99	2.30	8.95	27.37	37.37	9	20	28	3	1	0					0.00	0.00
EE0215	4.35	81	31	18.88	6.00	11.86	8.50	10.15	15.50	2.86	5.42	5.08	13.00	24.00	43.00	8	23	32	3	1	0					0.00	0.00
pp346*	8.73	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
	105.30																					**81.50**	**2,895.42**	**6.85**	**294.55**	**0.00**	**0.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0804	2009	69358	Range Access Road - Good Hope MTA	1.80	63.00				
EE0117	2009	69358	Range Access Road - Good Hope MTA			0.50	21.50		
EE0117	2009	67457	Infrastructure Support - Utilities			0.79	33.97		
			TOTAL REMOVALS	**1.80**	**63.00**	**1.29**	**55.47**	**0.00**	**0.00**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**79.70**	**2,832.42**
Potentially Suitable Habitat	**5.56**	**239.08**
Future Potential Habitat	**0.00**	**0.00**
TOTAL	**85.26**	**3,071.50**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-8 Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A08-02a**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0804	38.58	57	21	31.74	9.00	15.09	10.50	17.29	24.50	5.29	1.09	1.41	3.50	35.00	47.50	1	30	7	3	1	4.38	PS					38.58	1,350.30
A0807	42.92	80	21	21.12	6.50	9.44	6.50	18.95	29.50	8.78	0.00	0.00	0.00	36.00	42.50	2	31	0	3	1	4.68	PS			42.92	1,545.12		
A0811	0.88	80	26	28.66	9.00	21.05	14.00	16.29	27.00	0.00	0.97	0.57	1.50	41.00	51.50	1	37	4	3	1	4.57	PS					0.00	0.00
EE0117	6.85	83	21	17.08	5.00	13.92	10.50	23.21	32.50	1.18	0.94	0.79	2.00	43.00	50.00	8	12	4	3	1	4.20	PS			6.85	294.55		
EE0208	2.99	57	31	2.83	1.05	7.49	5.79	13.97	21.58	3.65	5.99	2.30	8.95	27.37	37.37	9	20	28	3	1	3.61	PS					0.00	0.00
EE0215	4.35	81	31	18.88	6.00	11.86	8.50	10.15	15.50	2.86	5.42	5.08	13.00	24.00	43.00	8	23	32	3	1	3.46	PS					0.00	0.00
pp346*	8.73	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
	105.30																						**0.00**	**0.00**	**49.77**	**1,839.67**	**38.58**	**1,350.30**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0804	2009	69358	Range Access Road - Good Hope MTA					1.80	63.00
EE0117	2009	69358	Range Access Road - Good Hope MTA			0.50	21.50		
EE0117	2009	67457	Infrastructure Support - Utilities			0.79	33.97		
			TOTAL REMOVALS	**0.00**	**0.00**	**1.29**	**55.47**	**1.80**	**63.00**

POST-PROJECT

	2009	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**48.48**	**1,784.20**
Future Potential Habitat	**36.78**	**1,287.30**
TOTAL	**85.26**	**3,071.50**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-9. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benni **A08-03**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Forested Acreage (within A20 Impact Area)	Future Potential Acreage	Future Potential BA
A0811	97.79	80	26	28.66	9.00	21.05	14.00	16.29	27.00	0.00	0.97	0.57	1.50	41.00	51.50	1	37	4	3	1	1	97.79	4,009.39			
A0901	2.00	95	26	30.96	7.00	2.91	2.00	12.26	23.50	2.55	0.64	1.63	3.00	25.50	35.50	6	36	13	3	1	0				2.00	51.00
A2003	17.33	80	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0			17.33		
	117.12																					**97.79**	**4,009.39**	**17.33**	**2.00**	**51.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Forested Acreage (within A20 Impact Area) Removed	Future Potential Acreage Removed	Future Potential BA Removed
A2003	2009	65078	Anti-Armor Tracking and Live Fire Complex (LA-AR1)			5.74		
			TOTAL REMOVALS	**0.00**	**0.00**	**5.74**	**0.00**	**0.00**

POST-PROJECT

	2009 Acres	2009 BA
Suitable Habitat	**97.79**	**4,009.39**
Forested Acreage	**11.59**	**0.00**
Future Potential Habitat	**2.00**	**51.00**
TOTAL	**111.39**	**4,060.39**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
25 = Mixed Pine
26 = Mixed Pine-Longleaf

Appendix Table H-10. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A08-03**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgi

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Forested Acreage (within A20 Impact	Future Potential Acreage	Future Potential BA
A0811	97.79	80	26	28.66	9.00	21.05	14.00	16.29	27.00	0.00	0.97	0.57	1.50	41.00	51.50	1	37	4	3	1	4.57	PS				97.79	4,009.39
A0901	2.00	95	26	30.96	7.00	2.91	2.00	12.26	23.50	2.55	0.64	1.63	3.00	25.50	35.50	6	36	13	3	1	3.86	PS				2.00	51.00
A2003	17.33	80	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	2.47	PS			17.33		
	117.12																						**0.00**	**0.00**	**17.33**	**99.79**	**4,060.39**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Forested Acreage (within A20 Impact Area) Removed	Future Potential Acreage Removed	Future Potential BA Removed
A2003	2009	65078	Anti-Armor Tracking and Live Fire Complex (LA-AR1)			5.74		
			TOTAL REMOVALS	**0.00**	**0.00**	**5.74**	**0.00**	**0.00**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Forested Acreage	**11.59**	**0.00**
Future Potential Habitat	**99.79**	**4,060.39**
TOTAL	**111.39**	**4,060.39**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
25 = Mixed Pine
26 = Mixed Pine-Longleaf

Appendix Table H-11. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benr **A08-04**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Forested Acreage (within A20 Impact Area)	Future Potential Acreage	Future Potential BA
A0811	27.11	80	26	28.66	9.00	21.05	14.00	16.29	27.00	0.00	0.97	0.57	1.50	41.00	51.50	1	37	4	3	1	1	27.11	1,111.51			
A2001	11.16	80	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0			11.16		
A2003	143.63	80	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0			143.63		
	181.90																					**27.11**	**1,111.51**	**154.79**	**0.00**	**0.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Forested Acreage (within A20 Impact Area) Removed	Future Potential Acreage Removed	Future Potential BA Removed
A2003	2009	65078	Anti-Armor Tracking and Live Fire Complex (LA-AR1)			6.96		
			TOTAL REMOVALS	**0.00**	**0.00**	**6.96**	**0.00**	**0.00**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**27.11**	**1,111.51**
Forested Acreage	**147.83**	**0.00**
Future Potential Habitat	**0.00**	**0.00**
TOTAL	**174.94**	**1,111.51**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
25 = Mixed Pine
26 = Mixed Pine-Longleaf

Appendix Table H-12. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A08-04**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Forested Acreage (within A20 Impact Area)	Future Potential Acreage	Future Potential BA
A0811	27.11	80	26	28.66	9.00	21.05	14.00	16.29	27.00	0.00	0.97	0.57	1.50	41.00	51.50	1	37	4	3	1	4.57	PS				27.11	1,111.51
A2001	11.16	80	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	2.47	PS			11.16		
A2003	143.63	80	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	2.47	PS			143.63		
	181.90																						**0.00**	**0.00**	**154.79**	**27.11**	**1,111.51**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Forested Acreage (within A20 Impact Area) Removed	Future Potential Acreage Removed	Future Potential BA Removed
A2003	2009	65078	Anti-Armor Tracking and Live Fire Complex (LA-AR1)			6.96		
			TOTAL REMOVALS	**0.00**	**0.00**	**6.96**	**0.00**	**0.00**

POST-PROJECT

	2009	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Forested Acreage	**147.83**	**0.00**
Future Potential Habitat	**27.11**	**1,111.51**
TOTAL	**174.94**	**1,111.51**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
25 = Mixed Pine
26 = Mixed Pine-Longleaf

Appendix Table H-13. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A09-03R, Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0911	3.24	92	31	13.28	2.50	3.39	3.00	15.95	27.00	4.96	3.01	1.99	5.50	30.00	38.00	6	33	21	3	1	0			3.24	97.20		
A0916	8.20	103	42**	12.51	3.50	4.38	3.50	7.00	13.50	16.69	13.72	7.45	21.50	17.00	42.00	7	21	65	3	1	0					0.00	0.00
A0924	96.43	100	21	17.76	4.21	6.45	4.21	15.60	27.89	2.15	0.00	0.00	0.00	32.11	36.32	6	37	0	3	1	0			96.43	3,096.37		
A1105	8.90	94	13	0.00	0.00	0.00	0.00	16.85	44.44	16.33	9.31	5.47	16.67	44.44	61.11	7	11	47	0	0	0			0.00	0.00		
pp186*	0.63	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.63	0.00
pp20*	7.15	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					7.15	0.00
pp21*	0.62	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.62	0.00
Q0243	2.72	60	31	25.66	5.50	2.48	1.50	15.02	30.50	7.72	4.44	0.88	4.50	32.00	42.00	8	32	23	3	1	0			2.72	87.04		
Q0249	5.77	52	10	28.43	8.33	13.39	10.00	13.91	26.67	22.70	11.49	0.96	8.33	36.67	53.33	2	38	31	3	1	1	5.77	211.59				
Q0251	0.69	56	31	41.14	11.50	31.18	21.50	5.80	9.50	16.63	0.72	0.75	1.50	31.00	44.00	2	31	4	3	1	1	0.69	21.39				
Q0259	5.43	56	31	22.63	7.14	26.89	18.57	10.13	15.71	6.01	2.02	1.63	4.29	34.29	45.71	1	29	9	3	1	1	5.43	186.19				
Q0263	5.68	52	31	0.00	0.00	4.27	3.33	20.87	40.00	14.00	4.58	6.09	13.33	43.33	56.67	8	13	30	3	1	0			5.68	246.11		
	145.46																					**11.89**	**419.17**	**108.07**	**3,526.72**	**8.40**	**0.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0911	2009	69358	Range Access Road - Good Hope MTA			0.25	7.50		
A0924	2009	69358	Range Access Road - Good Hope MTA			3.22	103.39		
Q0243	2009	69358	Range Access Road - Good Hope MTA			0.37	11.84		
Q0249	2009	69358	Range Access Road - Good Hope MTA	0.69	25.30				
Q0263	2009	69358	Range Access Road - Good Hope MTA			0.56	24.26		
pp20*	2009	69668	Good Hope Training Area Infrastructure					1.19	0.00
			TOTAL REMOVALS	**0.69**	**25.30**	**4.40**	**146.99**	**1.19**	**0.00**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**11.20**	**393.87**
Potentially Suitable Habitat	**103.67**	**3,379.73**
Future Potential Habitat	**7.21**	**0.00**
TOTAL	**122.08**	**3,773.60**

Key:

BA = basal area

dbh = diameter at breast height

hwd = hardwood

hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine (not managed)

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-14. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A09-03R, Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0911	3.24	92	31	13.28	2.50	3.39	3.00	15.95	27.00	4.96	3.01	1.99	5.50	30.00	38.00	6	33	21	3	1	4.14	PS					3.24	97.20
A0916	8.20	103	42**	12.51	3.50	4.38	3.50	7.00	13.50	16.69	13.72	7.45	21.50	17.00	42.00	7	21	65	3	1	3.11	PS					0.00	0.00
A0924	96.43	100	21	17.76	4.21	6.45	4.21	15.60	27.89	2.15	0.00	0.00	0.00	32.11	36.32	6	37	0	3	1	4.27	PS					96.43	3,096.37
A1105	8.90	94	13	0.00	0.00	0.00	0.00	16.85	44.44	16.33	9.31	5.47	16.67	44.44	61.11	7	11	47	0	0	3.65	PS					0.00	0.00
pp186*	0.63	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.63	0.00
pp20*	7.15	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					7.15	0.00
pp21*	0.62	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.62	0.00
Q0243	2.72	60	31	25.66	5.50	2.48	1.50	15.02	30.50	7.72	4.44	0.88	4.50	32.00	42.00	8	32	23	3	1	3.95	PS					2.72	87.04
Q0249	5.77	52	10	28.43	8.33	13.39	10.00	13.91	26.67	22.70	11.49	0.96	8.33	36.67	53.33	2	38	31	3	1	4.13	PS					5.77	211.59
Q0251	0.69	56	31	41.14	11.50	31.18	21.50	5.80	9.50	16.63	0.72	0.75	1.50	31.00	44.00	2	31	4	3	1	3.56	PS					0.69	21.39
Q0259	5.43	56	31	22.63	7.14	26.89	18.57	10.13	15.71	6.01	2.02	1.63	4.29	34.29	45.71	1	29	9	3	1	4.00	PS					5.43	186.19
Q0263	5.68	52	31	0.00	0.00	4.27	3.33	20.87	40.00	14.00	4.58	6.09	13.33	43.33	56.67	8	13	30	3	1	3.88	PS					5.68	246.11
	145.46																						**0.00**	**0.00**	**0.00**	**0.00**	**128.36**	**3,945.89**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0911	2009	69358	Range Access Road - Good Hope MTA					0.25	7.50
A0924	2009	69358	Range Access Road - Good Hope MTA					3.22	103.39
Q0243	2009	69358	Range Access Road - Good Hope MTA					0.37	11.84
Q0249	2009	69358	Range Access Road - Good Hope MTA					0.69	25.30
Q0263	2009	69358	Range Access Road - Good Hope MTA					0.56	24.26
pp20*	2009	69668	Good Hope Training Area Infrastructure					1.19	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**6.28**	**172.29**

POST-PROJECT

	2009 Acres	2009 BA
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**122.08**	**3,773.60**
TOTAL	**122.08**	**3,773.60**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine (not managed)

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-15. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A09-03R**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0911	3.24	92	31	13.28	2.50	3.39	3.00	15.95	27.00	4.96	3.01	1.99	5.50	30.00	38.00	6	33	21	3	1	0			3.24	97.20		
A0916	8.20	103	42**	12.51	3.50	4.38	3.50	7.00	13.50	16.69	13.72	7.45	21.50	17.00	42.00	7	21	65	3	1	0					0.00	0.00
A0924	96.43	100	21	17.76	4.21	6.45	4.21	15.60	27.89	2.15	0.00	0.00	0.00	32.11	36.32	6	37	0	3	1	0			96.43	3,096.37		
A1105	8.90	94	13	0.00	0.00	0.00	0.00	16.85	44.44	16.33	9.31	5.47	16.67	44.44	61.11	7	11	47	0	0	0			0.00	0.00		
pp186*	0.63	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.63	0.00
pp20*	7.15	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					7.15	0.00
pp21*	0.62	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.62	0.00
Q0243	2.72	60	31	25.66	5.50	2.48	1.50	15.02	30.50	7.72	4.44	0.88	4.50	32.00	42.00	8	32	23	3	1	0			2.72	87.04		
Q0249	5.77	52	10	28.43	8.33	13.39	10.00	13.91	26.67	22.70	11.49	0.96	8.33	36.67	53.33	2	38	31	3	1	1	5.77	211.59				
Q0251	0.69	56	31	41.14	11.50	31.18	21.50	5.80	9.50	16.63	0.72	0.75	1.50	31.00	44.00	2	31	4	3	1	1	0.69	21.39				
Q0259	5.43	56	31	22.63	7.14	26.89	18.57	10.13	15.71	6.01	2.02	1.63	4.29	34.29	45.71	1	29	9	3	1	1	5.43	186.19				
Q0263	5.68	52	31	0.00	0.00	4.27	3.33	20.87	40.00	14.00	4.58	6.09	13.33	43.33	56.67	8	13	30	3	1	0			5.68	246.11		
	145.46																					**11.89**	**419.17**	**108.07**	**3,526.72**	**8.40**	**0.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0911	2009	69358	Range Access Road - Good Hope MTA			0.25	7.50		
A0924	2009	69358	Range Access Road - Good Hope MTA			3.22	103.39		
pp20*	2009	69668	Good Hope Training Area Infrastructure					1.19	0.00
pp21*	2009	69741	Alternate 19D/K OSUT Training Area-Construct Tank Trails					0.30	0.00
Q0243	2009	69741	Alternate 19D/K OSUT Training Area-Construct Tank Trails			1.63	52.16		
Q0243	2009	69358	Range Access Road - Good Hope MTA			0.37	11.84		
Q0249	2009	69741	Alternate 19D/K OSUT Training Area-Construct Tank Trails	3.05	111.84				
Q0249	2009	69358	Range Access Road - Good Hope MTA	0.69	25.30				
Q0259	2009	69741	Alternate 19D/K OSUT Training Area-Construct Tank Trails	3.51	120.36				
Q0263	2009	69358	Range Access Road - Good Hope MTA			0.56	24.26		
			TOTAL REMOVALS	**7.25**	**257.50**	**6.03**	**199.15**	**1.49**	**0.00**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**4.64**	**161.67**
Potentially Suitable Habitat	**102.04**	**3,327.57**
Future Potential Habitat	**6.91**	**0.00**
TOTAL	**113.59**	**3,489.24**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine (not managed)

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-16. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A09-03R**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0911	3.24	92	31	13.28	2.50	3.39	3.00	15.95	27.00	4.96	3.01	1.99	5.50	30.00	38.00	6	33	21	3	1	4.14	PS					3.24	97.20
A0916	8.20	103	42**	12.51	3.50	4.38	3.50	7.00	13.50	16.69	13.72	7.45	21.50	17.00	42.00	7	21	65	3	1	3.11	PS					0.00	0.00
A0924	96.43	100	21	17.76	4.21	6.45	4.21	15.60	27.89	2.15	0.00	0.00	0.00	32.11	36.32	6	37	0	3	1	4.27	PS					96.43	3,096.37
A1105	8.90	94	13	0.00	0.00	0.00	0.00	16.85	44.44	16.33	9.31	5.47	16.67	44.44	61.11	7	11	47	0	0	3.65	PS					0.00	0.00
pp186*	0.63	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.63	0.00
pp20*	7.15	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					7.15	0.00
pp21*	0.62	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.62	0.00
Q0243	2.72	60	31	25.66	5.50	2.48	1.50	15.02	30.50	7.72	4.44	0.88	4.50	32.00	42.00	8	32	23	3	1	3.95	PS					2.72	87.04
Q0249	5.77	52	10	28.43	8.33	13.39	10.00	13.91	26.67	22.70	11.49	0.96	8.33	36.67	53.33	2	38	31	3	1	4.13	PS					5.77	211.59
Q0251	0.69	56	31	41.14	11.50	31.18	21.50	5.80	9.50	16.63	0.72	0.75	1.50	31.00	44.00	2	31	4	3	1	3.56	PS					0.69	21.39
Q0259	5.43	56	31	22.63	7.14	26.89	18.57	10.13	15.71	6.01	2.02	1.63	4.29	34.29	45.71	1	29	9	3	1	4.00	PS					5.43	186.19
Q0263	5.68	52	31	0.00	0.00	4.27	3.33	20.87	40.00	14.00	4.58	6.09	13.33	43.33	56.67	8	13	30	3	1	3.88	PS					5.68	246.11
	145.46																						**0.00**	**0.00**	**0.00**	**0.00**	**128.36**	**3,945.89**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0911	2009	69358	Range Access Road - Good Hope MTA					0.25	7.50
A0924	2009	69358	Range Access Road - Good Hope MTA					3.22	103.39
pp20*	2009	69668	Good Hope Training Area Infrastructure					1.19	0.00
pp21*	2009	69741	Alternate 19D/K OSUT Training Area-Construct Tank Trails					0.30	0.00
Q0243	2009	69741	Alternate 19D/K OSUT Training Area-Construct Tank Trails					1.63	52.16
Q0243	2009	69358	Range Access Road - Good Hope MTA					0.37	11.84
Q0249	2009	69741	Alternate 19D/K OSUT Training Area-Construct Tank Trails					3.05	111.84
Q0249	2009	69358	Range Access Road - Good Hope MTA					0.69	25.30
Q0259	2009	69741	Alternate 19D/K OSUT Training Area-Construct Tank Trails					3.51	120.36
Q0263	2009	69358	Range Access Road - Good Hope MTA					0.56	24.26
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**14.77**	**456.65**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**113.59**	**3,489.24**
TOTAL	**113.59**	**3,489.24**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine (not managed)

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-17. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A09-04R Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0901	5.86	95	26	30.96	7.00	2.91	2.00	12.26	23.50	2.55	0.64	1.63	3.00	25.50	35.50	6	36	13	3	1	0					5.86	149.43
A0904	17.33	53	31	41.41	10.50	14.39	10.00	11.05	15.00	9.50	4.33	1.35	5.50	25.00	41.00	2	28	18	3	1	0					17.33	433.25
A0905	4.29	50	31	12.55	3.50	9.52	7.50	13.47	23.00	18.37	10.45	2.60	11.50	30.50	45.50	5	28	36	3	1	0			4.29	130.85		
A0907	57.33	91	31	12.99	3.50	8.72	6.00	13.34	24.00	6.46	2.16	0.59	2.50	30.00	36.00	2	31	11	3	1	1	57.33	1,719.90				
A0909	5.10	91	62**	6.14	2.00	9.92	7.50	7.40	13.00	31.70	21.38	9.96	30.50	20.50	53.00	7	14	64	3	1	0					0.00	0.00
A0912	56.97	59	26	11.06	3.00	7.44	6.00	13.17	19.00	19.92	3.38	3.10	6.50	25.00	34.50	1	39	24	3	1	0					56.97	1,424.25
A0918	21.63	0	62**	10.40	3.00	1.81	1.50	7.13	14.00	44.10	29.43	17.65	47.00	15.50	65.50	7	18	84	3	1	0					0.00	0.00
A0920	6.58	5	21PU	21.32	4.50	4.64	3.00	1.20	2.00	10.97	10.58	9.83	22.50	5.00	32.00	2	36	78	3	1	0					0.00	0.00
A0921	1.69	54	31	16.90	5.00	17.29	12.50	9.31	13.00	5.15	0.00	0.95	1.50	25.50	32.00	2	45	3	3	1	0					0.00	0.00
A1003	29.95	69	10	12.51	4.00	9.37	7.50	9.40	15.00	31.23	11.50	4.01	13.50	22.50	40.00	7	26	45	0	0	0					29.95	673.88
A1008	20.82	50	25	37.66	10.00	28.28	19.50	13.38	21.00	14.39	5.34	1.85	7.50	40.50	58.00	1	32	15	0	0	1	20.82	843.21				
pp184*	5.45	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.45	0.00
pp185*	3.21	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.21	0.00
pp187*	2.52	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.52	0.00
	238.73																					**78.15**	**2,563.11**	**4.29**	**130.85**	**121.29**	**2,680.81**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0904	2009	65078	Construction Buffer for Anti-Armor Tracking and Live Fire Complex					17.09	427.25
A1003	2009	65078	Construction Buffer for Anti-Armor Tracking and Live Fire Complex					0.02	0.45
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**17.11**	**427.70**

POST-PROJECT

	2009	
	Acres	**BA**
Suitable Habitat	**78.15**	**2,563.11**
Potentially Suitable Habitat	**4.29**	**130.85**
Future Potential Habitat	**104.18**	**2,253.11**
TOTAL	**186.62**	**4,947.07**

Key:

BA = basal area

dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21P = Longleaf Pine Plantation
21PU = Longleaf Pine Plantation Underplanted
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
62** = Sweetgum-Water Oak-Willow Oak (Managed for Hardwoods)

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-18 Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A09-04R Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0901	5.86	95	26	30.96	7.00	2.91	2.00	12.26	23.50	2.55	0.64	1.63	3.00	25.50	35.50	6	36	13	3	1	3.97	PS					5.86	149.43
A0904	17.33	53	31	41.41	10.50	14.39	10.00	11.05	15.00	9.50	4.33	1.35	5.50	25.00	41.00	2	28	18	3	1	3.71	PS					17.33	433.25
A0905	4.29	50	31	12.55	3.50	9.52	7.50	13.47	23.00	18.37	10.45	2.60	11.50	30.50	45.50	5	28	36	3	1	3.77	PS					4.29	130.85
A0907	57.33	91	31	12.99	3.50	8.72	6.00	13.34	24.00	6.46	2.16	0.59	2.50	30.00	36.00	2	31	11	3	1	4.43	PS					57.33	1,719.90
A0909	5.10	91	62**	6.14	2.00	9.92	7.50	7.40	13.00	31.70	21.38	9.96	30.50	20.50	53.00	7	14	64	3	1	3.06	PS					0.00	0.00
A0912	56.97	59	26	11.06	3.00	7.44	6.00	13.17	19.00	19.92	3.38	3.10	6.50	25.00	34.50	1	39	24	3	1	3.98	PS					56.97	1,424.25
A0918	21.63	0	62**	10.40	3.00	1.81	1.50	7.13	14.00	44.10	29.43	17.65	47.00	15.50	65.50	7	18	84	3	1	2.46	NH					0.00	0.00
A0920	6.58	5	21PU	21.32	4.50	4.64	3.00	1.20	2.00	10.97	10.58	9.83	22.50	5.00	32.00	2	36	78	3	1	2.56	NH					0.00	0.00
A0921	1.69	54	31	16.90	5.00	17.29	12.50	9.31	13.00	5.15	0.00	0.95	1.50	25.50	32.00	2	45	3	3	1	3.97	PS					0.00	0.00
A1003	29.95	69	10	12.51	4.00	9.37	7.50	9.40	15.00	31.23	11.50	4.01	13.50	22.50	40.00	7	26	45	0	0	3.30	PS					29.95	673.88
A1008	20.82	50	25	37.66	10.00	28.28	19.50	13.38	21.00	14.39	5.34	1.85	7.50	40.50	58.00	1	32	15	0	0	4.18	PS					20.82	843.21
pp184*	5.45	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					5.45	0.00
pp185*	3.21	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.21	0.00
pp187*	2.52	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.52	0.00
	238.73																						**0.00**	**0.00**	**0.00**	**0.00**	**203.73**	**5,374.77**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0904	2009	65078	Construction Buffer for Anti-Armor Tracking and Live Fire Complex					17.09	427.25
A1003	2009	65078	Construction Buffer for Anti-Armor Tracking and Live Fire Complex					0.02	0.45
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**17.11**	**427.70**

POST-PROJECT

	2009	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**186.62**	**4,947.07**
TOTAL	**186.62**	**4,947.07**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21P = Longleaf Pine Plantation
21PU = Longleaf Pine Plantation Underplanted
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
62** = Sweetgum-Water Oak-Willow Oak (Managed for Hardwoods)

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-19. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A09-05**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0811	40.06	80	26	28.66	9.00	21.05	14.00	16.29	27.00	0.00	0.97	0.57	1.50	41.00	51.50	1	37	4	3	1	1	40.06	1,642.46				
A0901	41.35	95	26	30.96	7.00	2.91	2.00	12.26	23.50	2.55	0.64	1.63	3.00	25.50	35.50	6	36	13	3	1	0					41.35	1,054.43
A0902	27.47	53	31	36.77	9.50	25.21	19.00	12.56	16.50	0.00	1.16	0.00	1.00	35.50	46.00	2	33	3	3	1	1	27.47	975.19				
A0905	10.01	50	31	12.55	3.50	9.52	7.50	13.47	23.00	18.37	10.45	2.60	11.50	30.50	45.50	5	28	36	3	1	0			10.01	305.31		
A0906	20.96	87	31	6.51	2.11	11.64	8.42	12.49	21.58	19.66	19.41	4.54	20.00	30.00	52.11	1	29	50	3	1	1	20.96	628.80				
A0911	3.34	92	31	13.28	2.50	3.39	3.00	15.95	27.00	4.96	3.01	1.99	5.50	30.00	38.00	6	33	21	3	1	0			3.34	100.20		
pp681*	2.13	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.13	0.00
Q0110	4.16	48	13	115.02	26.67	19.71	13.33	6.55	8.33	15.82	10.34	0.00	6.67	21.67	55.00	1	24	28	3	1	0					4.16	90.15
Q0114	20.63	58	31	26.88	8.00	31.74	23.50	12.83	17.50	6.98	0.59	0.00	0.50	41.00	49.50	2	30	1	3	1	1	20.63	845.83				
Q0116	0.10	48	31	15.53	6.25	43.00	31.25	21.43	31.25	7.05	1.34	0.00	1.25	62.50	70.00	2	21	2	3	1	1	0.10	6.25				
Q0119	2.48	58	13	0.00	0.00	14.25	10.00	11.40	15.00	10.60	21.83	3.45	20.00	25.00	45.00	8	50	50	3	1	0					2.48	62.00
Q0120	3.07	55	42**	26.46	8.57	7.99	5.71	9.55	14.29	39.24	23.76	17.88	44.29	20.00	72.86	1	17	70	3	1	0					0.00	0.00
Q0125	2.38	55	10	10.14	4.00	20.44	15.50	15.70	23.00	21.00	5.43	4.48	10.50	38.50	53.00	3	20	22	3	1	1	2.38	91.63				
	178.14																					**111.60**	**4,190.16**	**13.35**	**405.51**	**50.12**	**1,206.58**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0902	2009	69358	Range Access Road - Good Hope MTA	2.69	95.50				
A0906	2009	69358	Range Access Road - Good Hope MTA	0.07	2.10				
A0911	2009	69358	Range Access Road - Good Hope MTA			0.15	4.50		
Q0114	2009	69358	Range Access Road - Good Hope MTA	0.72	29.52				
Q0119	2009	69358	Range Access Road - Good Hope MTA					0.20	5.00
Q0125	2009	69358	Range Access Road - Good Hope MTA	0.35	13.48				
			TOTAL REMOVALS	**3.83**	**140.60**	**0.15**	**4.50**	**0.20**	**5.00**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**107.77**	**4,049.56**
Potentially Suitable Habitat	**13.20**	**401.01**
Future Potential Habitat	**49.92**	**1,201.58**
TOTAL	**170.89**	**5,652.15**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
42** = Upland Hardwood - Yellow Pine (not managed)

* **Note:** No pine data was taken for pine plantation stands less than 30 years old.

Appendix Table H-20. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A09-05**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0811	40.06	80	26	28.66	9.00	21.05	14.00	16.29	27.00	0.00	0.97	0.57	1.50	41.00	51.50	1	37	4	3	1	4.57	PS					40.06	1,642.46
A0901	41.35	95	26	30.96	7.00	2.91	2.00	12.26	23.50	2.55	0.64	1.63	3.00	25.50	35.50	6	36	13	3	1	3.97	PS					41.35	1,054.43
A0902	27.47	53	31	36.77	9.50	25.21	19.00	12.56	16.50	0.00	1.16	0.00	1.00	35.50	46.00	2	33	3	3	1	4.08	PS					27.47	975.19
A0905	10.01	50	31	12.55	3.50	9.52	7.50	13.47	23.00	18.37	10.45	2.60	11.50	30.50	45.50	5	28	36	3	1	3.77	PS					10.01	305.31
A0906	20.96	87	31	6.51	2.11	11.64	8.42	12.49	21.58	19.66	19.41	4.54	20.00	30.00	52.11	1	29	50	3	1	3.99	PS					20.96	628.80
A0911	3.34	92	31	13.28	2.50	3.39	3.00	15.95	27.00	4.96	3.01	1.99	5.50	30.00	38.00	6	33	21	3	1	4.14	PS					3.34	100.20
pp681*	2.13	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.13	0.00
Q0110	4.16	48	13	115.02	26.67	19.71	13.33	6.55	8.33	15.82	10.34	0.00	6.67	21.67	55.00	1	24	28	3	1	2.75	NH					4.16	90.15
Q0114	20.63	58	31	26.88	8.00	31.74	23.50	12.83	17.50	6.98	0.59	0.00	0.50	41.00	49.50	2	30	1	3	1	4.14	PS					20.63	845.83
Q0116	0.10	48	31	15.53	6.25	43.00	31.25	21.43	31.25	7.05	1.34	0.00	1.25	62.50	70.00	2	21	2	3	1	4.37	PS					0.10	6.25
Q0119	2.48	58	13	0.00	0.00	14.25	10.00	11.40	15.00	10.60	21.83	3.45	20.00	25.00	45.00	8	50	50	3	1	3.52	PS					2.48	62.00
Q0120	3.07	55	42**	26.46	8.57	7.99	5.71	9.55	14.29	39.24	23.76	17.88	44.29	20.00	72.86	1	17	70	3	1	3.34	PS					0.00	0.00
Q0125	2.38	55	10	10.14	4.00	20.44	15.50	15.70	23.00	21.00	5.43	4.48	10.50	38.50	53.00	3	20	22	3	1	4.08	PS					2.38	91.63
	178.14																						**0.00**	**0.00**	**0.00**	**0.00**	**175.07**	**5,802.25**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0902	2009	69358	Range Access Road - Good Hope MTA					2.69	95.50
A0906	2009	69358	Range Access Road - Good Hope MTA					0.07	2.10
A0911	2009	69358	Range Access Road - Good Hope MTA					0.15	4.50
Q0114	2009	69358	Range Access Road - Good Hope MTA					0.72	29.52
Q0119	2009	69358	Range Access Road - Good Hope MTA					0.20	5.00
Q0125	2009	69358	Range Access Road - Good Hope MTA					0.35	13.48
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**4.18**	**150.10**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**170.89**	**5,652.15**
TOTAL	**170.89**	**5,652.15**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
42** = Upland Hardwood - Yellow Pine (not managed)

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Appendix Table H-21. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A14-03R Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1406	15.25	82	21	77.17	19.50	19.21	14.00	9.33	14.00	13.38	0.00	0.49	1.00	28.00	48.50	1	28	2	3	2	0					15.25	427.00
A1407	15.55	81	21	27.73	7.00	17.92	14.00	17.00	22.50	5.52	1.63	0.50	1.50	36.50	45.00	1	39	6	3	2	1	15.55	567.58				
A1409	16.36	24	31P	6.23	3.00	44.57	32.00	9.65	12.00	0.00	0.00	0.00	0.00	44.00	47.00	1	15	0	3	2	0					16.36	719.84
A1410	2.88	39	25	129.64	32.22	35.80	24.44	7.14	8.89	0.00	0.00	0.00	0.00	33.33	65.56	1	38	0	3	2	0			2.88	95.99		
A1716	47.17	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	1	47.17	2,452.84				
A1724	1.84	45	26	63.91	17.50	27.77	20.00	11.96	16.50	21.89	7.46	1.41	8.50	36.50	62.50	2	40	18	3	2	1	1.84	67.16				
Molnar15	0.05	0	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
Molnar16	0.08	37	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
Molnar5	22.06	12	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
Molnar5	2.71	12	U	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
pp11*	0.13	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp650*	0.74	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp651*	1.07	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
Z0103	0.73	65	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
Z0102	5.80	65	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
Z0101	0.93	65	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
	133.35																					**64.56**	**3,087.58**	**2.88**	**95.99**	**31.61**	**1,146.84**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1716	2010	n/a	Construction Buffer for Multi-purpose Machine Gun Ranges (MPMG1 & MPMG2)	36.50	1,898.00				
A1724	2010	n/a	Construction Buffer for Multi-purpose Machine Gun Ranges (MPMG1 & MPMG2)	1.70	62.05				
			TOTAL REMOVALS	**38.20**	**1,960.05**	**0.00**	**0.00**	**0.00**	**0.00**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**26.36**	**1,127.53**
Potentially Suitable Habitat	**2.88**	**95.99**
Future Potential Habitat	**31.61**	**1,146.84**
TOTAL	**60.85**	**2,370.36**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31P = Loblolly Pine Plantation
U = Underplanted
ND = No data provided

* **Note:** No pine data was taken for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-22. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A14-03R Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1406	15.25	82	21	77.17	19.50	19.21	14.00	9.33	14.00	13.38	0.00	0.49	1.00	28.00	48.50	1	28	2	3	2	4.01	PS					15.25	427.00
A1407	15.55	81	21	27.73	7.00	17.92	14.00	17.00	22.50	5.52	1.63	0.50	1.50	36.50	45.00	1	39	6	3	2	4.67	PS					15.55	567.58
A1409	16.36	24	31P	6.23	3.00	44.57	32.00	9.65	12.00	0.00	0.00	0.00	0.00	44.00	47.00	1	15	0	3	2	3.56	NH					16.36	719.84
A1410	2.88	39	25	129.64	32.22	35.80	24.44	7.14	8.89	0.00	0.00	0.00	0.00	33.33	65.56	1	38	0	3	2	3.41	PS					2.88	95.99
A1716	47.17	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	4.75	PS			47.17	2,452.84		
A1724	1.84	45	26	63.91	17.50	27.77	20.00	11.96	16.50	21.89	7.46	1.41	8.50	36.50	62.50	2	40	18	3	2	3.90	PS					1.84	67.16
Molnar15	0.05	0	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
Molnar16	0.08	37	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.20	PS					0.00	0.00
Molnar5	22.06	12	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
Molnar5	2.71	12	U	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
pp11*	0.13	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	PS					0.00	0.00
pp650*	0.74	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	PS					0.00	0.00
pp651*	1.07	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	PS					0.00	0.00
Z0103	0.73	65	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.62	NH					0.00	0.00
Z0102	5.80	65	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.62	NH					0.00	0.00
Z0101	0.93	65	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.62	NH					0.00	0.00
	133.35																						**0.00**	**0.00**	**47.17**	**2,452.84**	**51.88**	**1,877.57**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1716	2010	n/a	Construction Buffer for Multi-purpose Machine Gun Ranges (MPMG1 & MPMG2)			36.50	1,898.00		
A1724	2010	n/a	Construction Buffer for Multi-purpose Machine Gun Ranges (MPMG1 & MPMG2)					1.70	62.05
			TOTAL REMOVALS	**0.00**	**0.00**	**36.50**	**1,898.00**	**1.70**	**62.05**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**10.67**	**554.84**
Future Potential Habitat	**50.18**	**1,815.52**
TOTAL	**60.85**	**2,370.36**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31P = Loblolly Pine Plantation
U = Underplanted
ND = No data provided

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-23. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-01 Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1705	43.29	76	21	38.03	10.00	22.22	16.50	21.89	32.50	4.06	4.24	0.95	5.50	49.00	64.50	2	29	11	3	2	1	43.29	2,121.21				
A1706	20.48	42	31	68.89	19.50	31.04	21.50	11.87	17.00	9.25	4.51	1.93	6.00	38.50	64.00	5	29	13	3	2	0			20.48	788.48		
A1707	7.21	42	31	94.25	25.79	63.39	44.21	15.10	20.53	26.90	6.17	1.72	7.89	64.74	98.42	1	19	9	3	2	0			7.21	466.78		
A1709	1.57	42	31	82.75	24.00	38.10	26.50	18.23	26.50	5.35	9.22	2.98	11.50	53.00	88.50	2	31	18	3	2	0			1.57	83.21		
A1714	14.64	92	21	52.71	15.50	28.01	20.50	32.31	45.50	12.62	1.99	2.49	5.00	66.00	86.50	1	16	7	3	2	1	14.64	966.24				
A1716	28.03	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	1	28.03	1,457.56				
A1717	2.75	77	10	97.34	28.89	59.53	41.11	17.28	21.11	19.22	0.00	1.89	4.44	62.22	95.56	1	33	2	3	2	0			2.75	171.11		
	117.97																					**85.96**	**4,545.01**	**32.01**	**1,509.58**	**0.00**	**0.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1705	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	0.79	38.71				
A1705	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)	42.50	2,082.50				
A1706	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)			12.04	463.54		
A1714	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	2.45	161.70				
A1714	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)	12.19	804.54				
A1716	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)	27.24	1,416.48				
			2010 SUB-TOTAL	**85.17**	**4,503.93**	**12.04**	**463.54**	**0.00**	**0.00**

POST-PROJECT	**2011**	
	Acres	**BA**
Suitable Habitat	**0.79**	**41.08**
Potentially Suitable Habitat	**19.97**	**1,046.04**
Future Potential Habitat	**0.00**	**0.00**
TOTAL	**20.76**	**1,087.12**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine - Upland Hardwood
21 = Longleaf Pine
31 = Loblolly Pine

Appendix Table H-24. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-01 Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1705	43.29	76	21	38.03	10.00	22.22	16.50	21.89	32.50	4.06	4.24	0.95	5.50	49.00	64.50	2	29	11	3	2	4.67	PS			43.29	2,121.21		
A1706	20.48	42	31	68.89	19.50	31.04	21.50	11.87	17.00	9.25	4.51	1.93	6.00	38.50	64.00	5	29	13	3	2	3.63	PS					20.48	788.48
A1707	7.21	42	31	94.25	25.79	63.39	44.21	15.10	20.53	26.90	6.17	1.72	7.89	64.74	98.42	1	19	9	3	2	4.10	PS					7.21	466.78
A1709	1.57	42	31	82.75	24.00	38.10	26.50	18.23	26.50	5.35	9.22	2.98	11.50	53.00	88.50	2	31	18	3	2	4.37	PS					1.57	83.21
A1714	14.64	92	21	52.71	15.50	28.01	20.50	32.31	45.50	12.62	1.99	2.49	5.00	66.00	86.50	1	16	7	3	2	4.62	PS			14.64	966.24		
A1716	28.03	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	4.75	PS			28.03	1,457.56		
A1717	2.75	77	10	97.34	28.89	59.53	41.11	17.28	21.11	19.22	0.00	1.89	4.44	62.22	95.56	1	33	2	3	2	4.58	PS					2.75	171.11
	117.97																						**0.00**	**0.00**	**85.96**	**4,545.01**	**32.01**	**1,509.58**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1705	2011	65070	Multi-purpose Machine Gun Range (MPMG2)			0.79	38.71		
A1705	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)			42.50	2,082.50		
A1706	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					12.04	463.54
A1714	2011	65070	Multi-purpose Machine Gun Range (MPMG2)			2.45	161.70		
A1714	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)			12.19	804.54		
A1716	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)			27.24	1,416.48		
			2010 SUB-TOTAL	**0.00**	**0.00**	**85.17**	**4,503.93**	**12.04**	**463.54**

POST-PROJECT

	2011 Acres	2011 BA
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.79**	**41.08**
Future Potential Habitat	**19.97**	**1,046.04**
TOTAL	**20.76**	**1,087.12**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine - Upland Hardwood
21 = Longleaf Pine
31 = Loblolly Pine

Appendix Table H-25. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-01 Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1705	43.29	76	21	38.03	10.00	22.22	16.50	21.89	32.50	4.06	4.24	0.95	5.50	49.00	64.50	2	29	11	3	2	1	43.29	2,121.21				
A1706	20.48	42	31	68.89	19.50	31.04	21.50	11.87	17.00	9.25	4.51	1.93	6.00	38.50	64.00	5	29	13	3	2	0			20.48	788.48		
A1707	7.21	42	31	94.25	25.79	63.39	44.21	15.10	20.53	26.90	6.17	1.72	7.89	64.74	98.42	1	19	9	3	2	0			7.21	466.78		
A1709	1.57	42	31	82.75	24.00	38.10	26.50	18.23	26.50	5.35	9.22	2.98	11.50	53.00	88.50	2	31	18	3	2	0			1.57	83.21		
A1714	14.64	92	21	52.71	15.50	28.01	20.50	32.31	45.50	12.62	1.99	2.49	5.00	66.00	86.50	1	16	7	3	2	1	14.64	966.24				
A1716	28.03	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	1	28.03	1,457.56				
A1717	2.75	77	10	97.34	28.89	59.53	41.11	17.28	21.11	19.22	0.00	1.89	4.44	62.22	95.56	1	33	2	3	2	0			2.75	171.11		
	117.97																					**85.96**	**4,545.01**	**32.01**	**1,509.58**	**0.00**	**0.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1705	2010	68733	Multi-purpose Machine Gun Range (MPMG1)	6.65	325.85				
A1705	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	35.85	1,756.65				
A1706	2010	68733	Multi-purpose Machine Gun Range (MPMG1)			12.50	481.25		
A1706	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			7.98	307.23		
A1707	2010	68733	Multi-purpose Machine Gun Range (MPMG1)			4.71	304.93		
A1707	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			2.50	161.85		
A1709	2010	68733	Multi-purpose Machine Gun Range (MPMG1)			1.57	83.21		
A1714	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	11.89	784.74				
A1716	2010	68733	Multi-purpose Machine Gun Range (MPMG1)	24.33	1,265.16				
A1716	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	3.70	192.40				
A1717	2010	68733	Multi-purpose Machine Gun Range (MPMG1)			2.75	171.11		
			2010 SUB-TOTAL	**82.42**	**4,324.80**	**32.01**	**1,509.58**	**0.00**	**0.00**
A1705	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	0.79	38.71				
A1714	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	2.75	181.50				
			2011 SUB-TOTAL	**3.54**	**220.21**	**0.00**	**0.00**	**0.00**	**0.00**
			TOTAL REMOVALS	**85.96**	**4,545.01**	**32.01**	**1,509.58**	**0.00**	**0.00**

POST-PROJECT	**2010**		**2011**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**3.54**	**220.21**	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL	**3.54**	**220.21**	**0.00**	**0.00**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine - Upland Hardwood
21 = Longleaf Pine
31 = Loblolly Pine

Appendix Table H-26. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-01 Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1705	43.29	76	21	38.03	10.00	22.22	16.50	21.89	32.50	4.06	4.24	0.95	5.50	49.00	64.50	2	29	11	3	2	4.67	PS			43.29	2,121.21		
A1706	20.48	42	31	68.89	19.50	31.04	21.50	11.87	17.00	9.25	4.51	1.93	6.00	38.50	64.00	5	29	13	3	2	3.63	PS					20.48	788.48
A1707	7.21	42	31	94.25	25.79	63.39	44.21	15.10	20.53	26.90	6.17	1.72	7.89	64.74	98.42	1	19	9	3	2	4.10	PS					7.21	466.78
A1709	1.57	42	31	82.75	24.00	38.10	26.50	18.23	26.50	5.35	9.22	2.98	11.50	53.00	88.50	2	31	18	3	2	4.37	PS					1.57	83.21
A1714	14.64	92	21	52.71	15.50	28.01	20.50	32.31	45.50	12.62	1.99	2.49	5.00	66.00	86.50	1	16	7	3	2	4.62	PS			14.64	966.24		
A1716	28.03	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	4.75	PS			28.03	1,457.56		
A1717	2.75	77	10	97.34	28.89	59.53	41.11	17.28	21.11	19.22	0.00	1.89	4.44	62.22	95.56	1	33	2	3	2	4.58	PS					2.75	171.11
	117.97																						**0.00**	**0.00**	**85.96**	**4,545.01**	**32.01**	**1,509.58**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1705	2010	68733	Multi-purpose Machine Gun Range (MPMG1)			6.65	325.85		
A1705	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			35.85	1,756.65		
A1706	2010	68733	Multi-purpose Machine Gun Range (MPMG1)					12.50	481.25
A1706	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					7.98	307.23
A1707	2010	68733	Multi-purpose Machine Gun Range (MPMG1)					4.71	304.93
A1707	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					2.50	161.85
A1709	2010	68733	Multi-purpose Machine Gun Range (MPMG1)					1.57	83.21
A1714	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			11.89	784.74		
A1716	2010	68733	Multi-purpose Machine Gun Range (MPMG1)			24.33	1,265.16		
A1716	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			3.70	192.40		
A1717	2010	68733	Multi-purpose Machine Gun Range (MPMG1)					2.75	171.11
			2010 SUB-TOTAL	**0.00**	**0.00**	**82.42**	**4,324.80**	**32.01**	**1,509.58**
A1705	2011	65070	Multi-purpose Machine Gun Range (MPMG2)			0.79	38.71		
A1714	2011	65070	Multi-purpose Machine Gun Range (MPMG2)			2.75	181.50		
			2011 SUB-TOTAL	**0.00**	**0.00**	**3.54**	**220.21**	**0.00**	**0.00**
			TOTAL REMOVALS	**0.00**	**0.00**	**85.96**	**4,545.01**	**32.01**	**1,509.58**

POST-PROJECT	**2010**		**2011**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**3.54**	**220.21**	**0.00**	**0.00**
Future Potential Habitat	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL	**3.54**	**220.21**	**0.00**	**0.00**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine - Upland Hardwood
21 = Longleaf Pine
31 = Loblolly Pine

Appendix Table H-27. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning C **A17-02**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10"	Hwd Stems 10-14" dbh	Hwd Stems > 14"	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1705	49.42	76	21	38.03	10.00	22.22	16.50	21.89	32.50	4.06	4.24	0.95	5.50	49.00	64.50	2	29	11	3	2	1	49.42	2,421.58				
A1710	36.16	76	31	16.04	5.00	8.44	5.50	0.43	0.50	7.81	8.01	3.91	11.50	6.00	22.50	2	50	57	3	2	0					36.16	216.96
A1712	1.78	76	21	70.22	14.29	0.00	0.00	0.00	0.00	7.79	2.29	0.00	1.43	0.00	15.71	2	29	100	3	2	0					1.78	0.00
A1713	1.53	75	26	73.92	19.00	8.97	5.50	0.00	0.00	2.82	2.09	0.00	1.50	5.50	26.00	1	35	19	3	2	0					1.53	8.42
A1714	13.28	92	21	52.71	15.50	28.01	20.50	32.31	45.50	12.62	1.99	2.49	5.00	66.00	86.50	1	16	7	3	2	1	13.28	876.48				
A1821	0.64	109	21	50.03	12.22	20.57	15.56	8.31	10.56	2.27	4.30	1.16	4.44	26.11	42.78	1	16	16	3	2	0					0.64	16.71
A1823	18.61	76	10	50.53	14.50	13.26	9.00	0.89	1.00	18.99	5.76	2.91	9.50	10.00	34.00	1	30	38	3	2	0					18.61	186.10
A2001	10.73	80	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
A2003	46.64	80	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
	178.79																					**62.70**	**3,298.06**	**0.00**	**0.00**	**58.72**	**428.19**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1705	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	8.07	395.43				
A1705	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)	37.06	1,815.94				
A1710	2011	65070	Multi-purpose Machine Gun Range (MPMG2)					21.98	131.88
A1710	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					14.18	85.08
A1712	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					1.78	0.00
A1713	2011	65070	Multi-purpose Machine Gun Range (MPMG2)					1.53	8.42
A1714	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	13.28	876.48				
A1821	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					0.64	16.71
A1823	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					16.56	165.60
			2011 SUB-TOTAL	**58.41**	**3,087.85**	**0.00**	**0.00**	**56.67**	**407.69**
A1705	2012	65070	Beaten Area for Multi-purpose Machine Gun Range (MPMG2)	2.03	99.47				
			2012 SUB-TOTAL	**2.03**	**99.47**	**0.00**	**0.00**	**0.00**	**0.00**
				60.44	**3,187.32**	**0.00**	**0.00**	**56.67**	**407.69**

POST-PROJECT	**2011**		**2012**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**4.29**	**210.21**	**2.26**	**110.74**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**2.05**	**20.50**	**2.05**	**20.50**
TOTAL	**6.34**	**230.71**	**4.31**	**131.24**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine - Upland Hardwood
21 = Longleaf Pine
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the

Appendix Table H-28. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-02**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1705	49.42	76	21	38.03	10.00	22.22	16.50	21.89	32.50	4.06	4.24	0.95	5.50	49.00	64.50	2	29	11	3	2	4.67	PS			49.42	2,421.58		
A1710	36.16	76	31	16.04	5.00	8.44	5.50	0.43	0.50	7.81	8.01	3.91	11.50	6.00	22.50	2	50	57	3	2	2.82	NH					36.16	216.96
A1712	1.78	76	21	70.22	14.29	0.00	0.00	0.00	0.00	7.79	2.29	0.00	1.43	0.00	15.71	2	29	100	3	2	2.55	NH					1.78	0.00
A1713	1.53	75	26	73.92	19.00	8.97	5.50	0.00	0.00	2.82	2.09	0.00	1.50	5.50	26.00	1	35	19	3	2	3.30	PS					1.53	8.42
A1714	13.28	92	21	52.71	15.50	28.01	20.50	32.31	45.50	12.62	1.99	2.49	5.00	66.00	86.50	1	16	7	3	2	4.62	PS			13.28	876.48		
A1821	0.64	109	21	50.03	12.22	20.57	15.56	8.31	10.56	2.27	4.30	1.16	4.44	26.11	42.78	1	16	16	3	2	3.67	PS					0.64	16.71
A1823	18.61	76	10	50.53	14.50	13.26	9.00	0.89	1.00	18.99	5.76	2.91	9.50	10.00	34.00	1	30	38	3	2	2.65	NH					18.61	186.10
A2001	10.73	80	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	2.47	NH					0.00	0.00
A2003	46.64	80	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	2.47	NH					0.00	0.00
	178.79																						**0.00**	**0.00**	**62.70**	**3,298.06**	**58.72**	**428.19**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1705	2011	65070	Multi-purpose Machine Gun Range (MPMG2)			8.07	395.43		
A1705	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)			37.06	1,815.94		
A1710	2011	65070	Multi-purpose Machine Gun Range (MPMG2)					21.98	131.88
A1710	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					14.18	85.08
A1712	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					1.78	0.00
A1713	2011	65070	Multi-purpose Machine Gun Range (MPMG2)					1.53	8.42
A1714	2011	65070	Multi-purpose Machine Gun Range (MPMG2)			13.28	876.48		
A1821	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					0.64	16.71
A1823	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					16.56	165.60
			2011 SUB-TOTAL	**0.00**	**0.00**	**58.41**	**3,087.85**	**56.67**	**407.69**
A1705	2012	65070	Beaten Area for Multi-purpose Machine Gun Range (MPMG2)			2.03	99.47		
			2012 SUB-TOTAL	**0.00**	**0.00**	**2.03**	**99.47**	**0.00**	**0.00**
				0.00	**0.00**	**60.44**	**3,187.32**	**56.67**	**407.69**

POST-PROJECT	**2011**		**2012**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**4.29**	**210.21**	**2.26**	**110.74**
Future Potential Habitat	**2.05**	**20.50**	**2.05**	**20.50**
TOTAL	**6.34**	**230.71**	**4.31**	**131.24**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine - Upland Hardwood
21 = Longleaf Pine
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the

Appendix Table H-29. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-03**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh.	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1716	53.95	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	1	53.95	2,805.40				
A1719	15.44	88	31	51.22	14.50	42.47	30.50	17.92	26.00	4.54	3.19	1.40	4.50	56.50	75.50	1	33	7	3	2	1	15.44	872.36				
A1725	20.17	41	31	74.55	22.00	49.92	35.50	10.97	14.50	1.24	1.66	2.03	3.50	50.00	75.50	1	30	6	3	2	0			20.17	1,008.50		
A1726	18.71	82	26	51.05	17.00	43.07	31.00	15.77	21.50	3.21	2.15	1.72	4.50	52.50	74.00	1	37	6	3	2	1	18.71	982.28				
	108.27																					**88.10**	**4,660.04**	**20.17**	**1,008.50**	**0.00**	**0.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1716	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	1.09	56.68				
A1716	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)	52.84	2,747.68				
A1719	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)	1.76	99.44				
A1725	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)			11.98	599.00		
A1726	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)	4.05	212.63				
			TOTAL REMOVALS	**59.74**	**3,116.43**	**11.98**	**599.00**	**0.00**	**0.00**

POST-PROJECT	**2011**	
	Acres	**BA**
Suitable Habitat	**28.36**	**1,543.61**
Potentially Suitable Habitat	**8.19**	**409.50**
Future Potential Habitat	**0.00**	**0.00**
TOTAL	**36.55**	**1,953.11**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Type Burn:
0=no data available
1=non-growing season
2=growing season

Forest Type:
21 = Longleaf Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

Stand Score
0=Unsuitable
1=Suitable

Appendix Table H-30. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-03**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1716	53.95	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	4.43	PS			53.95	2,805.40		
A1719	15.44	88	31	51.22	14.50	42.47	30.50	17.92	26.00	4.54	3.19	1.40	4.50	56.50	75.50	1	33	7	3	2	3.90	PS					15.44	872.36
A1725	20.17	41	31	74.55	22.00	49.92	35.50	10.97	14.50	1.24	1.66	2.03	3.50	50.00	75.50	1	30	6	3	2	3.52	PS					20.17	1,008.50
A1726	18.71	82	26	51.05	17.00	43.07	31.00	15.77	21.50	3.21	2.15	1.72	4.50	52.50	74.00	1	37	6	3	2	4.33	PS					18.71	982.28
	108.27																						**0.00**	**0.00**	**53.95**	**2,805.40**	**54.32**	**2,863.14**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1716	2011	65070	Multi-purpose Machine Gun Range (MPMG2)			1.09	56.68		
A1716	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)			52.84	2,747.68		
A1719	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					1.76	99.44
A1725	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					11.98	599.00
A1726	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					4.05	212.63
			TOTAL REMOVALS	**0.00**	**0.00**	**53.93**	**2,804.36**	**17.79**	**911.07**

POST-PROJECT	**2011**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.02**	**1.04**
Future Potential Habitat	**36.53**	**1,952.07**
TOTAL	**36.55**	**1,953.11**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

Appendix Table H-31. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-03**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh.	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1716	53.95	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	1	53.95	2,805.40				
A1719	15.44	88	31	51.22	14.50	42.47	30.50	17.92	26.00	4.54	3.19	1.40	4.50	56.50	75.50	1	33	7	3	2	1	15.44	872.36				
A1725	20.17	41	31	74.55	22.00	49.92	35.50	10.97	14.50	1.24	1.66	2.03	3.50	50.00	75.50	1	30	6	3	2	0			20.17	1,008.50		
A1726	18.71	82	26	51.05	17.00	43.07	31.00	15.77	21.50	3.21	2.15	1.72	4.50	52.50	74.00	1	37	6	3	2	1	18.71	982.28				
	108.27																					**88.10**	**4,660.04**	**20.17**	**1,008.50**	**0.00**	**0.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1716	2010	68733	Multi-purpose Machine Gun Range (MPMG1)	44.76	2,327.52				
A1716	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	8.10	421.20				
A1719	2010	68733	Multi-purpose Machine Gun Range (MPMG1)	14.99	846.94				
A1719	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	0.45	25.43				
A1725	2010	68733	Multi-purpose Machine Gun Range (MPMG1)			18.70	935.00		
A1725	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			1.47	73.50		
A1726	2010	68733	Multi-purpose Machine Gun Range (MPMG1)	15.54	815.85				
A1726	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	3.17	166.43				
			2010 SUB-TOTAL	**87.01**	**4,603.37**	**20.17**	**1,008.50**	**0.00**	**0.00**
A1716	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	1.09	56.67				
			2011 SUB-TOTAL	**1.09**	**56.67**	**0.00**	**0.00**	**0.00**	**0.00**
			TOTAL REMOVALS	**88.10**	**4,660.04**	**20.17**	**1,008.50**	**0.00**	**0.00**

POST-PROJECT

	2010		2011	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**1.09**	**56.67**	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL	**1.09**	**56.67**	**0.00**	**0.00**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

Appendix Table H-32 Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-03**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1716	53.95	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	4.43	PS			53.95	2,805.40		
A1719	15.44	88	31	51.22	14.50	42.47	30.50	17.92	26.00	4.54	3.19	1.40	4.50	56.50	75.50	1	33	7	3	2	3.90	PS					15.44	872.36
A1725	20.17	41	31	74.55	22.00	49.92	35.50	10.97	14.50	1.24	1.66	2.03	3.50	50.00	75.50	1	30	6	3	2	3.52	PS					20.17	1,008.50
A1726	18.71	82	26	51.05	17.00	43.07	31.00	15.77	21.50	3.21	2.15	1.72	4.50	52.50	74.00	1	37	6	3	2	4.33	PS					18.71	982.28
	108.27																						**0.00**	**0.00**	**53.95**	**2,805.40**	**54.32**	**2,863.14**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1716	2010	68733	Multi-purpose Machine Gun Range (MPMG1)			44.76	2,327.52		
A1716	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			8.10	421.20		
A1719	2010	68733	Multi-purpose Machine Gun Range (MPMG1)					14.99	846.94
A1719	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					0.45	25.43
A1725	2010	68733	Multi-purpose Machine Gun Range (MPMG1)					18.70	935.00
A1725	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					1.47	73.50
A1726	2010	68733	Multi-purpose Machine Gun Range (MPMG1)					15.54	815.85
A1726	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					3.17	166.43
			2010 SUB-TOTAL	**0.00**	**0.00**	**52.86**	**2,748.72**	**54.32**	**2,863.14**
A1716	2011	65070	Multi-purpose Machine Gun Range (MPMG2)			1.09	56.68		
			2011 SUB-TOTAL	**0.00**	**0.00**	**1.09**	**56.68**	**0.00**	**0.00**
			TOTAL REMOVALS	**0.00**	**0.00**	**53.95**	**2,805.40**	**54.32**	**2,863.14**

POST-PROJECT

	2010		2011	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**1.09**	**56.68**	**0.00**	**0.00**
Future Potential Habitat	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL	**1.09**	**56.68**	**0.00**	**0.00**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

Appendix Table H-33. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-04**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1407	6.36	81	21	27.73	7.00	17.92	14.00	17.00	22.50	5.52	1.63	0.50	1.50	36.50	45.00	1	39	6	3	2	1	6.36	232.14				
A1409	0.08	24	31P	6.23	3.00	44.57	32.00	9.65	12.00	0.00	0.00	0.00	0.00	44.00	47.00	1	15	0	3	2	0					0.08	3.52
A1410	5.30	39	25	129.64	32.22	35.80	24.44	7.14	8.89	0.00	0.00	0.00	0.00	33.33	65.56	1	38	0	3	2	0			5.30	176.65		
A1412	13.51	40	31	77.66	21.50	46.76	33.00	9.59	11.50	5.01	1.64	0.82	2.00	44.50	68.00	1	36	4	3	2	0			13.51	601.20		
A1413	0.01	24	31P	35.45	15.00	36.96	25.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00	40.00	1	30	0	3	2	0					0.01	0.25
A1614	2.32	45	25	29.46	10.00	48.86	33.33	13.05	18.33	0.00	2.27	2.78	6.67	51.67	68.33	1	50	8	3	2	1	2.32	119.87				
A1716	39.27	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	1	39.27	2,042.04				
A1725	10.63	41	31	74.55	22.00	49.92	35.50	10.97	14.50	1.24	1.66	2.03	3.50	50.00	75.50	1	30	6	3	2	0			10.63	531.50		
A1726	87.96	82	26	51.05	17.00	43.07	31.00	15.77	21.50	3.21	2.15	1.72	4.50	52.50	74.00	1	37	6	3	2	1	87.96	4,617.90				
A1728	42.48	52	21	69.42	21.00	27.77	21.50	29.91	43.00	0.00	1.77	1.34	3.00	64.50	88.50	2	38	5	3	2	0			42.48	2,739.96		
A1729	4.11	83	31	19.94	6.25	11.54	7.50	13.92	26.25	0.00	0.00	0.00	0.00	33.75	40.00	2	61	0	3	2	1	4.11	138.71				
pp657*	3.89	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.89	0.00
	215.92																					**140.02**	**7,150.66**	**71.92**	**4,049.31**	**3.98**	**3.77**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1412	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			0.49	21.81		
A1716	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	13.31	692.12				
A1725	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			10.63	531.50		
A1726	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	33.05	1,735.13				
A1728	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	13.41	864.95				
			TOTAL REMOVALS	**59.77**	**3,292.20**	**11.12**	**553.31**	**0.00**	**0.00**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**80.25**	**3,858.46**
Potentially Suitable Habitat	**60.80**	**3,496.00**
Future Potential Habitat	**3.98**	**3.77**
TOTAL	**145.03**	**7,358.23**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31P = Loblolly Pine Plantation

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-34 Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-04**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1407	6.36	81	21	27.73	7.00	17.92	14.00	17.00	22.50	5.52	1.63	0.50	1.50	36.50	45.00	1	39	6	3	2	4.36	PS					6.36	232.14
A1409	0.08	24	31P	6.23	3.00	44.57	32.00	9.65	12.00	0.00	0.00	0.00	0.00	44.00	47.00	1	15	0	3	2	3.24	NH					0.08	3.52
A1410	5.30	39	25	129.64	32.22	35.80	24.44	7.14	8.89	0.00	0.00	0.00	0.00	33.33	65.56	1	38	0	3	2	3.09	PS					5.30	176.65
A1412	13.51	40	31	77.66	21.50	46.76	33.00	9.59	11.50	5.01	1.64	0.82	2.00	44.50	68.00	1	36	4	3	2	3.48	PS					13.51	601.20
A1413	0.01	24	31P	35.45	15.00	36.96	25.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00	40.00	1	30	0	3	2	2.96	NH					0.01	0.25
A1614	2.32	45	25	29.46	10.00	48.86	33.33	13.05	18.33	0.00	2.27	2.78	6.67	51.67	68.33	1	50	8	3	2	4.07	PS					2.32	119.87
A1716	39.27	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	4.43	PS			39.27	2,042.04		
A1725	10.63	41	31	74.55	22.00	49.92	35.50	10.97	14.50	1.24	1.66	2.03	3.50	50.00	75.50	1	30	6	3	2	3.52	PS					10.63	531.50
A1726	87.96	82	26	51.05	17.00	43.07	31.00	15.77	21.50	3.21	2.15	1.72	4.50	52.50	74.00	1	37	6	3	2	4.33	PS					87.96	4,617.90
A1728	42.48	52	21	69.42	21.00	27.77	21.50	29.91	43.00	0.00	1.77	1.34	3.00	64.50	88.50	2	38	5	3	2	4.34	PS					42.48	2,739.96
A1729	4.11	83	31	19.94	6.25	11.54	7.50	13.92	26.25	0.00	0.00	0.00	0.00	33.75	40.00	2	61	0	3	2	4.43	PS					4.11	138.71
pp657*	3.89	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.60	NH					3.89	0.00
	215.92																						**0.00**	**0.00**	**39.27**	**2,042.04**	**176.65**	**9,161.70**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1614	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					0.49	25.32
A1716	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			13.31	692.12		
A1725	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					10.63	531.50
A1726	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					33.05	1,735.13
A1728	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					13.41	864.95
			2010 SUB-TOTAL	**0.00**	**0.00**	**13.31**	**692.12**	**57.58**	**3,156.90**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**25.96**	**1,349.92**
Future Potential Habitat	**119.07**	**6,004.80**
TOTAL	**145.03**	**7,354.72**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31P = Loblolly Pine Plantation

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-35. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-05**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable/ Potentially Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1502	14.48	75	31	22.05	5.50	12.34	9.00	13.04	23.50	5.92	1.71	1.53	3.50	32.50	41.50	1	44	11	3	1	1	14.48	470.60				
A1601	1.94	58	31	6.78	2.50	14.87	11.50	14.54	21.50	4.03	3.38	3.85	9.50	33.00	45.00	1	26	20	3	2	1	1.94	64.02				
A1602	2.92	30	32	56.60	17.00	9.06	6.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	23.00	1	54	0	3	2	0					2.92	17.52
A1704	83.93	83	26	39.00	11.50	21.65	14.50	18.67	30.50	10.36	3.68	0.67	3.50	45.00	60.00	1	47	10	3	2	1	83.93	3,776.85				
A1709	10.38	42	31	82.75	24.00	38.10	26.50	18.23	26.50	5.35	9.22	2.98	11.50	53.00	88.50	2	31	18	3	2	0			10.38	550.14		
	113.65																					**100.35**	**4,311.47**	**10.38**	**550.14**	**2.92**	**17.52**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1502	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	5.25	170.63				
A1601	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	1.94	64.02				
A1602	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					1.59	9.54
A1704	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	74.17	3,337.65				
A1709	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			10.38	550.14		
			TOTAL REMOVALS	**81.36**	**3,572.30**	**10.38**	**550.14**	**1.59**	**9.54**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**18.99**	**739.17**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**1.33**	**7.98**
TOTAL	**20.32**	**747.15**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
32 = Shortleaf Pine

Appendix Table H-36. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-05**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable/ Potentially Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1502	14.48	75	31	22.05	5.50	12.34	9.00	13.04	23.50	5.92	1.71	1.53	3.50	32.50	41.50	1	44	11	3	1	4.52	PS					14.48	470.60
A1601	1.94	58	31	6.78	2.50	14.87	11.50	14.54	21.50	4.03	3.38	3.85	9.50	33.00	45.00	1	26	20	3	2	4.33	PS					1.94	64.02
A1602	2.92	30	32	56.60	17.00	9.06	6.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	23.00	1	54	0	3	2	3.11	PS					2.92	17.52
A1704	83.93	83	26	39.00	11.50	21.65	14.50	18.67	30.50	10.36	3.68	0.67	3.50	45.00	60.00	1	47	10	3	2	4.94	PS			83.93	3,776.85		
A1709	10.38	42	31	82.75	24.00	38.10	26.50	18.23	26.50	5.35	9.22	2.98	11.50	53.00	88.50	2	31	18	3	2	4.37	PS					10.38	550.14
	113.65																						**0.00**	**0.00**	**83.93**	**3,776.85**	**29.72**	**1,102.28**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1502	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					5.25	170.63
A1601	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					1.94	64.02
A1602	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					1.59	9.54
A1704	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			74.17	3,337.65		
A1709	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					10.38	550.14
			TOTAL REMOVALS	**0.00**	**0.00**	**74.17**	**3,337.65**	**19.16**	**794.33**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**9.76**	**439.20**
Future Potential Habitat	**10.56**	**307.95**
TOTAL	**20.32**	**747.15**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Type Burn:
0=no data available
1=non-growing season
2=growing season

Forest Type:
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
32 = Shortleaf Pine

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Appendix Table H-37. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-06 Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1406	3.50	82	21	77.17	19.50	19.21	14.00	9.33	14.00	13.38	0.00	0.49	1.00	28.00	48.50	1	28	2	3	2	0					3.50	98.00
A1716	51.19	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	1	51.19	2,661.88				
A1723	4.40	81	21	36.38	12.50	34.06	25.00	29.27	41.00	2.69	0.71	0.19	1.00	66.00	79.50	2	33	1	3	2	1	0.00	0.00				
A1724	45.47	45	26	63.91	17.50	27.77	20.00	11.96	16.50	21.89	7.46	1.41	8.50	36.50	62.50	2	40	18	3	2	1	45.47	1,659.66				
pp179*	20.51	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					20.51	0.00
Z0216	0.50	18	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
	125.57																					**96.66**	**4,321.54**	**0.00**	**0.00**	**24.01**	**98.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1406	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					0.11	3.08
A1716	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	13.56	705.12				
A1716	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)	33.30	1,731.60				
A1716	2011	65070	Access Road for Multi-purpose Machine Gun Range (MPMG2)	0.07	3.64				
A1724	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	4.65	169.73				
A1724	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)	36.00	1,314.00				
A1724	2011	65070	Access Road for Multi-purpose Machine Gun Range (MPMG2)	3.67	133.96				
pp179*	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					0.01	0.00
pp179*	2011	65070	Access Road for Multi-purpose Machine Gun Range (MPMG2)					0.02	0.00
			TOTAL REMOVALS	**91.25**	**4,058.05**	**0.00**	**0.00**	**0.14**	**3.08**

POST-PROJECT	**2011**	
	Acres	**BA**
Suitable Habitat	**5.41**	**263.49**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**23.87**	**94.92**
TOTAL	**29.28**	**358.41**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
ND = no data provided

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-38. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-06**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1406	3.50	82	21	77.17	19.50	19.21	14.00	9.33	14.00	13.38	0.00	0.49	1.00	28.00	48.50	1	28	2	3	2	4.01	PS					3.50	98.00
A1716	51.19	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	4.75	PS			51.19	2,661.88		
A1723	4.40	81	21	36.38	12.50	34.06	25.00	29.27	41.00	2.69	0.71	0.19	1.00	66.00	79.50	2	33	1	3	2	4.84	PS			0.00	0.00		
A1724	45.47	45	26	63.91	17.50	27.77	20.00	11.96	16.50	21.89	7.46	1.41	8.50	36.50	62.50	2	40	18	3	2	3.90	PS					45.47	1,659.66
pp179*	20.51	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					20.51	0.00
Z0216	0.50	18	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
	125.57																						**0.00**	**0.00**	**51.19**	**2,661.88**	**69.48**	**1,757.66**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1406	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					0.11	3.08
A1716	2011	65070	Multi-purpose Machine Gun Range (MPMG2)			13.56	705.12		
A1716	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)			33.30	1731.60		
A1716	2011	65070	Access Road for Multi-purpose Machine Gun Range (MPMG2)			0.07	3.64		
A1724	2011	65070	Multi-purpose Machine Gun Range (MPMG2)					4.65	169.73
A1724	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					36.00	1,314.00
A1724	2011	65070	Access Road for Multi-purpose Machine Gun Range (MPMG2)					3.67	133.96
pp179*	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					0.01	0.00
pp179*	2011	65070	Access Road for Multi-purpose Machine Gun Range (MPMG2)					0.02	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**46.93**	**2,440.36**	**44.46**	**1,620.77**

POST-PROJECT	**2011**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**4.26**	**221.52**
Future Potential Habitat	**25.02**	**136.89**
TOTAL	**29.28**	**358.41**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
ND = no data provided

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-39. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-06, Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1406	3.50	82	21	77.17	19.50	19.21	14.00	9.33	14.00	13.38	0.00	0.49	1.00	28.00	48.50	1	28	2	3	2	0					3.50	98.00
A1716	51.19	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	1	51.19	2,661.88				
A1723	4.40	81	21	36.38	12.50	34.06	25.00	29.27	41.00	2.69	0.71	0.19	1.00	66.00	79.50	2	33	1	3	2	1	0.00	0.00				
A1724	45.47	45	26	63.91	17.50	27.77	20.00	11.96	16.50	21.89	7.46	1.41	8.50	36.50	62.50	2	40	18	3	2	1	45.47	1,659.66				
pp179*	20.51	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					20.51	0.00
Z0216	0.50	18	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
	125.57																					**96.66**	**4,321.54**	**0.00**	**0.00**	**24.01**	**98.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1406	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					0.13	3.64
A1716	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	37.56	1,953.12				
A1724	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	37.00	1,350.50				
pp179*	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					0.01	0.00
			2010 SUB-TOTAL	**74.56**	**3,303.62**	**0.00**	**0.00**	**0.14**	**3.64**
A1716	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	13.56	705.12				
A1716	2011	65070	Access Roads for Multi-purpose Machine Gun Range (MPMG2)	0.07	3.64				
A1724	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	4.65	169.73				
A1724	2011	65070	Access Roads for Multi-purpose Machine Gun Range (MPMG2)	3.67	133.96				
pp179*	2011	65070	Access Roads for Multi-purpose Machine Gun Range (MPMG2)					0.02	0.00
			2011 SUB-TOTAL	**21.95**	**1,012.45**	**0.00**	**0.00**	**0.02**	**0.00**
			TOTAL REMOVALS	**96.51**	**4,316.07**	**0.00**	**0.00**	**0.16**	**3.64**

POST-PROJECT

	2010 Acres	2010 BA	2011 Acres	2011 BA
Suitable Habitat	**22.10**	**1,017.92**	**0.15**	**5.47**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**23.87**	**94.36**	**23.85**	**94.36**
TOTAL	**45.97**	**1,112.28**	**24.00**	**99.83**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
ND = no data provided

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-40. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-06**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1406	3.50	82	21	77.17	19.50	19.21	14.00	9.33	14.00	13.38	0.00	0.49	1.00	28.00	48.50	1	28	2	3	2	4.01	PS					3.50	98.00
A1716	51.19	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	4.75	PS			51.19	2,661.88		
A1723	4.40	81	21	36.38	12.50	34.06	25.00	29.27	41.00	2.69	0.71	0.19	1.00	66.00	79.50	2	33	1	3	2	4.84	PS			0.00	0.00		
A1724	45.47	45	26	63.91	17.50	27.77	20.00	11.96	16.50	21.89	7.46	1.41	8.50	36.50	62.50	2	40	18	3	2	3.90	PS					45.47	1,659.66
pp179*	20.51	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					20.51	0.00
Z0216	0.50	18	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
	125.57																						**0.00**	**0.00**	**51.19**	**2,661.88**	**69.48**	**1,757.66**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1406	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					0.13	3.64
A1716	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			37.56	1,953.12		
A1724	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					37.00	1,350.50
pp179*	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					0.01	0.00
			2010 SUB-TOTAL	**0.00**	**0.00**	**37.56**	**1,953.12**	**37.14**	**1,354.14**
A1716	2011	65070	Multi-purpose Machine Gun Range (MPMG2)			13.56	705.12		
A1716	2011	65070	Access Roads for Multi-purpose Machine Gun Range (MPMG2)			0.07	3.64		
A1724	2011	65070	Multi-purpose Machine Gun Range (MPMG2)					4.65	169.73
A1724	2011	65070	Access Roads for Multi-purpose Machine Gun Range (MPMG2)					3.67	133.96
pp179*	2011	65070	Access Roads for Multi-purpose Machine Gun Range (MPMG2)					0.02	0.00
			2011 SUB-TOTAL	**0.00**	**0.00**	**13.63**	**708.76**	**8.34**	**303.69**
			TOTAL REMOVALS	**0.00**	**0.00**	**51.19**	**2661.88**	**45.48**	**1,657.83**

POST-PROJECT

	2010 Acres	2010 BA	2011 Acres	2011 BA
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**13.63**	**708.76**	**0.00**	**0.00**
Future Potential Habitat	**32.34**	**403.52**	**24.00**	**99.83**
TOTAL	**45.97**	**1,112.28**	**24.00**	**99.83**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
ND = no data provided

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-41. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-07**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1704	74.21	83	26	39.00	11.50	21.65	14.50	18.67	30.50	10.36	3.68	0.67	3.50	45.00	60.00	1	47	10	3	2	1	74.21	3,339.45				
A1706	6.90	42	31	68.89	19.50	31.04	21.50	11.87	17.00	9.25	4.51	1.93	6.00	38.50	64.00	5	29	13	3	2	0			6.90	265.65		
A1707	5.89	42	31	94.25	25.79	63.39	44.21	15.10	20.53	26.90	6.17	1.72	7.89	64.74	98.42	1	19	9	3	2	0			5.89	381.32		
A1709	5.91	42	31	82.75	24.00	38.10	26.50	18.23	26.50	5.35	9.22	2.98	11.50	53.00	88.50	2	31	18	3	2	0			5.91	313.23		
A2001	2.89	80	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
	95.80																					**74.21**	**3,339.45**	**18.70**	**960.20**	**0.00**	**0.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1704	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	58.03	2,611.35				
A1706	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			5.84	224.84		
A1707	2010	68733	Multi-purpose Machine Gun Range (MPMG1)			1.44	93.23		
A1707	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			4.45	288.09		
A1709	2010	68733	Multi-purpose Machine Gun Range (MPMG1)			2.22	117.66		
A1709	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			3.69	195.57		
			2010 SUB-TOTAL	**58.03**	**2,611.35**	**17.64**	**919.39**	**0.00**	**0.00**
A1704	2011	68733	Beaten Area for Multi-purpose Machine Gun Range (MPMG1)	15.70	706.50				
A1706	2011	68733	Beaten Area for Multi-purpose Machine Gun Range (MPMG1)			1.06	40.81		
			2011 SUB-TOTAL	**15.70**	**706.50**	**1.06**	**40.81**	**0.00**	**0.00**
			TOTAL REMOVALS	**73.73**	**3,317.85**	**18.70**	**960.20**	**0.00**	**0.00**

POST-PROJECT	**2010**		**2011**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**16.18**	**728.10**	**0.48**	**21.60**
Potentially Suitable Habitat	**1.06**	**40.81**	**0.00**	**0.00**
Future Potential Habitat	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL	**17.24**	**768.91**	**0.48**	**21.60**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
25 = Mixed Pine-Longleaf
26 = Mixed Pine
31 = Loblolly Pine

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat

Appendix Table H-42. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-07**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1704	74.21	83	26	39.00	11.50	21.65	14.50	18.67	30.50	10.36	3.68	0.67	3.50	45.00	60.00	1	47	10	3	2	4.94	PS			74.21	3,339.45		
A1706	6.90	42	31	68.89	19.50	31.04	21.50	11.87	17.00	9.25	4.51	1.93	6.00	38.50	64.00	5	29	13	3	2	3.63	PS					6.90	265.65
A1707	5.89	42	31	94.25	25.79	63.39	44.21	15.10	20.53	26.90	6.17	1.72	7.89	64.74	98.42	1	19	9	3	2	4.10	PS					5.89	381.32
A1709	5.91	42	31	82.75	24.00	38.10	26.50	18.23	26.50	5.35	9.22	2.98	11.50	53.00	88.50	2	31	18	3	2	4.37	PS					5.91	313.23
A2001	2.89	80	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	2	NH					0.00	0.00
	95.80																						**0.00**	**0.00**	**74.21**	**3,339.45**	**18.70**	**960.20**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1704	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			58.03	2,611.35		
A1706	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					5.84	224.84
A1707	2010	68733	Multi-purpose Machine Gun Range (MPMG1)					1.44	93.23
A1707	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					4.45	288.09
A1709	2010	68733	Multi-purpose Machine Gun Range (MPMG1)					2.22	117.66
A1709	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					3.69	195.57
			2010 SUB-TOTAL	**0.00**	**0.00**	**58.03**	**2,611.35**	**17.64**	**919.39**
A1704	2011	68733	Beaten Area for Multi-purpose Machine Gun Range (MPMG1)			15.70	706.50		
A1706	2011	68733	Beaten Area for Multi-purpose Machine Gun Range (MPMG1)					1.06	40.81
			2011 SUB-TOTAL	**0.00**	**0.00**	**15.70**	**706.50**	**1.06**	**40.81**
			TOTAL REMOVALS	**0.00**	**0.00**	**73.73**	**3,317.85**	**18.70**	**960.20**

POST-PROJECT	**2010**		**2011**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**16.18**	**728.10**	**0.48**	**21.60**
Future Potential Habitat	**1.06**	**40.81**	**0.00**	**0.00**
TOTAL	**17.24**	**768.91**	**0.48**	**21.60**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
25 = Mixed Pine-Longleaf
26 = Mixed Pine
31 = Loblolly Pine

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the

Appendix Table H-43. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-08**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1710	6.16	76	31	16.04	5.00	8.44	5.50	0.43	0.50	7.81	8.01	3.91	11.50	6.00	22.50	2	50	57	3	2	0					6.16	36.96
A1713	12.57	75	26	73.92	19.00	8.97	5.50	0.00	0.00	2.82	2.09	0.00	1.50	5.50	26.00	1	35	19	3	2	0					12.57	69.14
A1714	79.39	92	21	52.71	15.50	28.01	20.50	32.31	45.50	12.62	1.99	2.49	5.00	66.00	86.50	1	16	7	3	2	1	79.39	5,239.74				
A1716	18.68	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	1	18.68	971.36				
A1723	13.77	81	21	36.38	12.50	34.06	25.00	29.27	41.00	2.69	0.71	0.19	1.00	66.00	79.50	2	33	1	3	2	1	13.77	908.82				
	130.57																					**111.84**	**7,119.92**	**0.00**	**0.00**	**18.73**	**106.10**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1710	2011	65070	Multi-purpose Machine Gun Range (MPMG2)					5.05	30.30
A1710	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					1.11	6.66
A1713	2011	65070	Multi-purpose Machine Gun Range (MPMG2)					9.91	54.51
A1713	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					2.66	14.63
A1714	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	68.13	4,496.58				
A1714	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)	11.26	743.16				
A1716	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	18.04	938.08				
A1716	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)	0.64	33.28				
A1723	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	13.74	906.84				
A1723	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)	0.03	1.98				
			TOTAL REMOVALS	**111.84**	**7,119.92**	**0.00**	**0.00**	**18.73**	**106.10**

POST-PROJECT	**2011**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**0.00**	**0.00**
TOTAL	**0.00**	**0.00**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

Appendix Table H-44. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-08**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA ≥ 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1710	6.16	76	31	16.04	5.00	8.44	5.50	0.43	0.50	7.81	8.01	3.91	11.50	6.00	22.50	2	50	57	3	2	2.82	NH					6.16	36.96
A1713	12.57	75	26	73.92	19.00	8.97	5.50	0.00	0.00	2.82	2.09	0.00	1.50	5.50	26.00	1	35	19	3	2	3.30	PS					12.57	69.14
A1714	79.39	92	21	52.71	15.50	28.01	20.50	32.31	45.50	12.62	1.99	2.49	5.00	66.00	86.50	1	16	7	3	2	4.62	PS			79.39	5,239.74		
A1716	18.68	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	4.75	PS			18.68	971.36		
A1723	13.77	81	21	36.38	12.50	34.06	25.00	29.27	41.00	2.69	0.71	0.19	1.00	66.00	79.50	2	33	1	3	2	4.84	PS			13.77	908.82		
	130.57																						**0.00**	**0.00**	**111.84**	**7,119.92**	**18.73**	**106.10**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1710	2011	65070	Multi-purpose Machine Gun Range (MPMG2)					5.05	30.30
A1710	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					1.11	6.66
A1713	2011	65070	Multi-purpose Machine Gun Range (MPMG2)					9.91	54.51
A1713	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					2.66	14.63
A1714	2011	65070	Multi-purpose Machine Gun Range (MPMG2)			68.13	4,496.58		
A1714	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)			11.26	743.16		
A1716	2011	65070	Multi-purpose Machine Gun Range (MPMG2)			18.04	938.08		
A1716	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)			0.64	33.28		
A1723	2011	65070	Multi-purpose Machine Gun Range (MPMG2)			13.74	906.84		
A1723	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)			0.03	1.98		
			TOTAL REMOVALS	**0.00**	**0.00**	**111.84**	**7,119.92**	**18.73**	**106.10**

POST-PROJECT	**2011**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**0.00**	**0.00**
TOTAL	**0.00**	**0.00**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

Appendix Table H-45. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-08**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1710	6.16	76	31	16.04	5.00	8.44	5.50	0.43	0.50	7.81	8.01	3.91	11.50	6.00	22.50	2	50	57	3	2	0					6.16	36.96
A1713	12.57	75	26	73.92	19.00	8.97	5.50	0.00	0.00	2.82	2.09	0.00	1.50	5.50	26.00	1	35	19	3	2	0					12.57	69.14
A1714	79.39	92	21	52.71	15.50	28.01	20.50	32.31	45.50	12.62	1.99	2.49	5.00	66.00	86.50	1	16	7	3	2	1	79.39	5,239.74				
A1716	18.68	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	1	18.68	971.36				
A1723	13.77	81	21	36.38	12.50	34.06	25.00	29.27	41.00	2.69	0.71	0.19	1.00	66.00	79.50	2	33	1	3	2	1	13.77	908.82				
	130.57																					**111.84**	**7,119.92**	**0.00**	**0.00**	**18.73**	**106.10**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1710	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					1.11	6.66
A1713	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					2.66	14.63
A1714	2010	68733	Multi-purpose Machine Gun Range (MPMG1)	0.26	17.16				
A1714	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	11.00	726.00				
A1716	2010	68733	Multi-purpose Machine Gun Range (MPMG1)	0.06	3.12				
A1716	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	0.58	30.16				
A1723	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	0.03	1.98				
			2010 SUB-TOTAL	**11.93**	**778.42**	**0.00**	**0.00**	**3.77**	**21.29**
A1710	2011	65070	Multi-purpose Machine Gun Range (MPMG2)					5.05	30.30
A1713	2011	65070	Multi-purpose Machine Gun Range (MPMG2)					9.91	54.51
A1714	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	68.13	4,496.58				
A1716	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	18.04	938.08				
A1723	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	13.74	906.84				
			2011 SUB-TOTAL	**99.91**	**6,341.50**	**0.00**	**0.00**	**14.96**	**84.81**
			TOTAL REMOVALS	**111.84**	**7,119.92**	**0.00**	**0.00**	**18.73**	**106.10**

POST-PROJECT

	2010		2011	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**99.91**	**6,341.50**	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**14.96**	**84.81**	**0.00**	**0.00**
TOTAL	**114.87**	**6,426.31**	**0.00**	**0.00**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

Appendix Table H-46. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-08**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd. Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1710	6.16	76	31	16.04	5.00	8.44	5.50	0.43	0.50	7.81	8.01	3.91	11.50	6.00	22.50	2	50	57	3	2	2.82	NH					6.16	36.96
A1713	12.57	75	26	73.92	19.00	8.97	5.50	0.00	0.00	2.82	2.09	0.00	1.50	5.50	26.00	1	35	19	3	2	3.30	PS					12.57	69.14
A1714	79.39	92	21	52.71	15.50	28.01	20.50	32.31	45.50	12.62	1.99	2.49	5.00	66.00	86.50	1	16	7	3	2	4.62	PS			79.39	5,239.74		
A1716	18.68	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	4.75	PS			18.68	971.36		
A1723	13.77	81	21	36.38	12.50	34.06	25.00	29.27	41.00	2.69	0.71	0.19	1.00	66.00	79.50	2	33	1	3	2	4.84	PS			13.77	908.82		
	130.57																						**0.00**	**0.00**	**111.84**	**7,119.92**	**18.73**	**106.10**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1710	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					1.11	6.66
A1713	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					2.66	14.63
A1714	2010	68733	Multi-purpose Machine Gun Range (MPMG1)			0.26	17.16		
A1714	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			11.00	726.00		
A1716	2010	68733	Multi-purpose Machine Gun Range (MPMG1)			0.06	3.12		
A1716	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			0.58	30.16		
A1723	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			0.03	1.98		
			2010 SUB-TOTAL	**0.00**	**0.00**	**11.93**	**778.42**	**3.77**	**21.29**
A1710	2011	65070	Multi-purpose Machine Gun Range (MPMG2)					5.05	30.30
A1713	2011	65070	Multi-purpose Machine Gun Range (MPMG2)					9.91	54.51
A1714	2011	65070	Multi-purpose Machine Gun Range (MPMG2)			68.13	4,496.58		
A1716	2011	65070	Multi-purpose Machine Gun Range (MPMG2)			18.04	938.08		
A1723	2011	65070	Multi-purpose Machine Gun Range (MPMG2)			13.74	906.84		
			2011 SUB-TOTAL	**0.00**	**0.00**	**99.91**	**6,341.50**	**14.96**	**84.81**
			TOTAL REMOVALS	**0.00**	**0.00**	**111.84**	**7119.92**	**18.73**	**106.10**

POST-PROJECT	**2010**		**2011**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**99.91**	**6,341.50**	**0.00**	**0.00**
Future Potential Habitat	**14.96**	**84.81**	**0.00**	**0.00**
TOTAL	**114.87**	**6,426.31**	**0.00**	**0.00**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

Appendix Table H-47. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-11R Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1403	3.15	112	26	34.02	8.42	11.18	7.37	8.36	14.74	25.09	5.50	0.39	4.21	22.11	34.74	7	27	23	3	2	0					0.00	0.00
A1710	4.47	NM	31	16.04	5.00	8.44	5.50	0.43	0.50	7.81	8.01	3.91	11.50	6.00	22.50	2	50	57	3	2	0					0.00	0.00
A1712	5.12	NM	21	70.22	14.29	0.00	0.00	0.00	0.00	7.79	2.29	0.00	1.43	0.00	15.71	2	29	100	3	2	0					0.00	0.00
A1713	0.35	75	26	73.92	19.00	8.97	5.50	0.00	0.00	2.82	2.09	0.00	1.50	5.50	26.00	1	35	19	3	2	0					0.35	1.93
A1714	0.44	92	21	52.71	15.50	28.01	20.50	32.31	45.50	12.62	1.99	2.49	5.00	66.00	86.50	1	16	7	3	2	1	0.44	29.04				
A1723	122.88	81	21	36.38	12.50	34.06	25.00	29.27	41.00	2.69	0.71	0.19	1.00	66.00	79.50	2	33	1	3	2	1	122.88	8,110.08				
A1821	0.31	109	21	50.03	12.22	20.57	15.56	8.31	10.56	2.27	4.30	1.16	4.44	26.11	42.78	1	16	16	3	2	0					0.00	0.00
	136.72																					**123.32**	**8,139.12**	**0.00**	**0.00**	**0.35**	**1.93**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1713	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					0.35	1.93
A1714	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	0.44	29.04				
A1723	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	19.35	1,277.10				
A1723	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)	86.74	5,724.84				
			TOTAL REMOVALS	**106.53**	**7,030.98**	**0.00**	**0.00**	**0.35**	**1.93**

POST-PROJECT

	2011	
	Acres	**BA**
Suitable Habitat	**16.79**	**1,108.14**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**0.00**	**0.00**
TOTAL	**16.79**	**1,108.14**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
NM = not managed

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-48. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-11R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1403	3.15	112	26	34.02	8.42	11.18	7.37	8.36	14.74	25.09	5.50	0.39	4.21	22.11	34.74	7	27	23	3	2	3.34	PS					0.00	0.00
A1710	4.47	NM	31	16.04	5.00	8.44	5.50	0.43	0.50	7.81	8.01	3.91	11.50	6.00	22.50	2	50	57	3	2	2.82	NH					0.00	0.00
A1712	5.12	NM	21	70.22	14.29	0.00	0.00	0.00	0.00	7.79	2.29	0.00	1.43	0.00	15.71	2	29	100	3	2	2.55	NH					0.00	0.00
A1713	0.35	75	26	73.92	19.00	8.97	5.50	0.00	0.00	2.82	2.09	0.00	1.50	5.50	26.00	1	35	19	3	2	3.30	PS					0.35	1.93
A1714	0.44	92	21	52.71	15.50	28.01	20.50	32.31	45.50	12.62	1.99	2.49	5.00	66.00	86.50	1	16	7	3	2	4.62	PS			0.44	29.04		
A1723	122.88	81	21	36.38	12.50	34.06	25.00	29.27	41.00	2.69	0.71	0.19	1.00	66.00	79.50	2	33	1	3	2	4.84	PS			122.88	8,110.08		
A1821	0.31	109	21	50.03	12.22	20.57	15.56	8.31	10.56	2.27	4.30	1.16	4.44	26.11	42.78	1	16	16	3	2	3.67	PS					0.00	0.00
	136.72																						**0.00**	**0.00**	**123.32**	**8,139.12**	**0.35**	**1.93**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1713	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					0.35	1.93
A1714	2011	65070	Multi-purpose Machine Gun Range (MPMG2)			0.44	29.04		
A1723	2011	65070	Multi-purpose Machine Gun Range (MPMG2)			19.35	1,277.10		
A1723	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)			86.74	5,724.84		
			TOTAL REMOVALS	**0.00**	**0.00**	**106.53**	**7,030.98**	**0.35**	**1.93**

POST-PROJECT	**2011**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**16.79**	**1,108.14**
Future Potential Habitat	**0.00**	**0.00**
TOTAL	**16.79**	**1,108.14**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
NM = not managed

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-49. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-12R Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1403	34.81	112	26	34.02	8.42	11.18	7.37	8.36	14.74	25.09	5.50	0.39	4.21	22.11	34.74	7	27	23	3	2	0					34.81	769.65
A1723	14.81	81	21	36.38	12.50	34.06	25.00	29.27	41.00	2.69	0.71	0.19	1.00	66.00	79.50	2	33	1	3	2	1	14.81	977.46				
A1819	43.67	78	21	20.06	5.50	15.75	12.00	17.27	24.50	19.57	7.88	2.73	9.50	36.50	51.50	5	21	24	3	2	0			43.67	1,593.96		
A1821	27.31	109	21	50.03	12.22	20.57	15.56	8.31	10.56	2.27	4.30	1.16	4.44	26.11	42.78	1	16	16	3	2	0					27.31	713.06
A1823	0.41	ND	10	50.53	14.50	13.26	9.00	0.89	1.00	18.99	5.76	2.91	9.50	10.00	34.00	1	30	38	3	2	0					0.41	4.10
A2001	4.10	80	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
	125.11																					**14.81**	**977.46**	**43.67**	**1,593.96**	**62.53**	**1,486.81**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1723	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)	4.75	313.50				
A1821	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					26.06	680.43
A1823	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					0.41	4.10
			TOTAL REMOVALS	**4.75**	**313.50**	**0.00**	**0.00**	**26.47**	**684.53**

POST-PROJECT

	2011 Acres	2011 BA
Suitable Habitat	**10.06**	**663.96**
Potentially Suitable Habitat	**43.67**	**1,593.96**
Future Potential Habitat	**36.06**	**802.28**
TOTAL	**89.79**	**3,060.20**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
25 = Mixed Pine
26 = Mixed Pine-Longleaf
ND = no data provided

Appendix Table H-50. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-12R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1403	34.81	112	26	34.02	8.42	11.18	7.37	8.36	14.74	25.09	5.50	0.39	4.21	22.11	34.74	7	27	23	3	2	3.34	PS					34.81	769.65
A1723	14.81	81	21	36.38	12.50	34.06	25.00	29.27	41.00	2.69	0.71	0.19	1.00	66.00	79.50	2	33	1	3	2	4.84	PS			14.81	977.46		
A1819	43.67	78	21	20.06	5.50	15.75	12.00	17.27	24.50	19.57	7.88	2.73	9.50	36.50	51.50	5	21	24	3	2	4.17	PS					43.67	1,593.96
A1821	27.31	109	21	50.03	12.22	20.57	15.56	8.31	10.56	2.27	4.30	1.16	4.44	26.11	42.78	1	16	16	3	2	3.67	PS					27.31	713.06
A1823	0.41	ND	10	50.53	14.50	13.26	9.00	0.89	1.00	18.99	5.76	2.91	9.50	10.00	34.00	1	30	38	3	2	2.65	NH					0.41	4.10
A2001	4.10	80	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	PS					0.00	0.00
	125.11																						**0.00**	**0.00**	**14.81**	**977.46**	**106.20**	**3,080.77**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1723	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)			4.75	313.50		
A1821	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					26.06	680.43
A1823	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					0.41	4.10
			TOTAL REMOVALS	**0.00**	**0.00**	**4.75**	**313.50**	**26.47**	**684.53**

POST-PROJECT	**2011**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**10.06**	**663.96**
Future Potential Habitat	**79.73**	**2,396.24**
TOTAL	**89.79**	**3,060.20**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
25 = Mixed Pine
26 = Mixed Pine-Longleaf
ND = no data provided

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-51. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-13**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1716	80.36	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	1	80.36	4,178.72				
A1725	24.42	41	31	74.55	22.00	49.92	35.50	10.97	14.50	1.24	1.66	2.03	3.50	50.00	75.50	1	30	6	3	2	0			24.42	1,221.00		
	104.78																					**80.36**	**4,178.72**	**24.42**	**1,221.00**	**0.00**	**0.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1716	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	5.18	269.36				
A1716	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)	53.77	2,796.04				
A1725	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)			8.80	440.00		
			TOTAL REMOVALS	**58.95**	**3,065.40**	**8.80**	**440.00**	**0.00**	**0.00**

POST-PROJECT	**2011**	
	Acres	**BA**
Suitable Habitat	**21.41**	**1,113.32**
Potentially Suitable Habitat	**15.62**	**781.00**
Future Potential Habitat	**0.00**	**0.00**
TOTAL	**37.03**	**1,894.32**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Type Burn:
0=no data available
1=non-growing season
2=growing season

Forest Type:
21 = Longleaf Pine
31 = Loblolly Pine

Stand Score
0=Unsuitable
1=Suitable

Appendix Table H-52. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-13**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1716	80.36	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	4.75	PS			80.36	4,178.72		
A1725	24.42	41	31	74.55	22.00	49.92	35.50	10.97	14.50	1.24	1.66	2.03	3.50	50.00	75.50	1	30	6	3	2	3.84	PS					24.42	1,221.00
	104.78																						**0.00**	**0.00**	**80.36**	**4,178.72**	**24.42**	**1,221.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1716	2011	65070	Multi-purpose Machine Gun Range (MPMG2)			5.18	269.36		
A1716	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)			53.77	2,796.04		
A1725	2011	65070	Construction Limits for Multi-purpose Machine Gun Range (MPMG2)					8.80	440.00
			2011 SUB-TOTAL	**0.00**	**0.00**	**58.95**	**3,065.40**	**8.80**	**440.00**

POST-PROJECT	**2011**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**21.41**	**1,113.32**
Future Potential Habitat	**15.62**	**781.00**
TOTAL	**37.03**	**1,894.32**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
31 = Loblolly Pine

Appendix Table H-53. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-13**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1716	80.36	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	1	80.36	4,178.72				
A1725	24.42	41	31	74.55	22.00	49.92	35.50	10.97	14.50	1.24	1.66	2.03	3.50	50.00	75.50	1	30	6	3	2	0			24.42	1,221.00		
	104.78																					**80.36**	**4,178.72**	**24.42**	**1,221.00**	**0.00**	**0.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1716	2010	68733	Construction Limits for Multi-purpose Machine Gun Range (MPMG1)	75.18	3,909.36				
A1725	2010	68733	Multi-purpose Machine Gun Range (MPMG1)			0.95	47.50		
A1725	2010	68733	Construction Limits for Multi-purpose Machine Gun Range (MPMG1)			23.47	1,173.50		
			2010 SUB-TOTAL	**75.18**	**3,909.36**	**24.42**	**1,221.00**	**0.00**	**0.00**
A1716	2011	65070	Multi-purpose Machine Gun Range (MPMG2)	5.18	269.36				
			2011 SUB-TOTAL	**5.18**	**269.36**	**0.00**	**0.00**	**0.00**	**0.00**
			TOTAL REMOVALS	**80.36**	**4,178.72**	**24.42**	**1,221.00**	**0.00**	**0.00**

POST-PROJECT	**2010**		**2011**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**5.18**	**269.36**	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL	**5.18**	**269.36**	**0.00**	**0.00**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Type Burn:
0=no data available
1=non-growing season
2=growing season

Forest Type:
21 = Longleaf Pine
31 = Loblolly Pine

Stand Score
0=Unsuitable
1=Suitable

Appendix Table H-54. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-13**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1716	80.36	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	4.75	PS			80.36	4,178.72		
A1725	24.42	41	31	74.55	22.00	49.92	35.50	10.97	14.50	1.24	1.66	2.03	3.50	50.00	75.50	1	30	6	3	2	3.84	PS					24.42	1,221.00
	104.78																						**0.00**	**0.00**	**80.36**	**4,178.72**	**24.42**	**1,221.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1716	2010	68733	Construction Limits for Multi-purpose Machine Gun Range (MPMG1)			75.18	3,909.36		
A1725	2010	68733	Multi-purpose Machine Gun Range (MPMG1)					0.95	47.50
A1725	2010	68733	Construction Limits for Multi-purpose Machine Gun Range (MPMG1)					23.47	1,173.50
			2010 SUB-TOTAL	**0.00**	**0.00**	**75.18**	**3,909.36**	**24.42**	**1,221.00**
A1716	2011	65070	Multi-purpose Machine Gun Range (MPMG2)			5.18	269.36		
			2011 SUB-TOTAL	**0.00**	**0.00**	**5.18**	**269.36**	**0.00**	**0.00**
			TOTAL REMOVALS	**0.00**	**0.00**	**80.36**	**4,178.72**	**24.42**	**1,221.00**

POST-PROJECT

	2010 Acres	2010 BA	2011 Acres	2011 BA
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**5.18**	**269.36**	**0.00**	**0.00**
Future Potential Habitat	**0.00**	**0.00**	**0.00**	**0.00**
TOTAL	**5.18**	**269.36**	**0.00**	**0.00**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
31 = Loblolly Pine

Appendix Table H-55. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-14a**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1601	8.24	58	31	6.78	2.50	14.87	11.50	14.54	21.50	4.03	3.38	3.85	9.50	33.00	45.00	1	26	20	3	2	1	8.24	271.92				
A1602	15.92	30	32	56.60	17.00	9.06	6.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	23.00	1	54	0	3	2	0					15.92	95.52
A1709	13.58	42	31	82.75	24.00	38.10	26.50	18.23	26.50	5.35	9.22	2.98	11.50	53.00	88.50	2	31	18	3	2	0			13.58	719.74		
A1716	4.41	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	1	4.41	229.32				
A1717	6.60	77	10	97.34	28.89	59.53	41.11	17.28	21.11	19.22	0.00	1.89	4.44	62.22	95.56	1	33	0	3	2	0			6.60	410.65		
A1719	53.82	88	31	51.22	14.50	42.47	30.50	17.92	26.00	4.54	3.19	1.40	4.50	56.50	75.50	1	33	0	3	2	1	53.82	3,040.83				
	102.57																					**66.47**	**3,542.07**	**20.18**	**1,130.39**	**15.92**	**95.52**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1716	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	2.64	137.28				
			TOTAL REMOVALS	**2.64**	**137.28**	**0.00**	**0.00**	**0.00**	**0.00**

POST-PROJECT

	2010 Acres	2010 BA
Suitable Habitat	**63.83**	**3,404.79**
Potentially Suitable Habitat	**20.18**	**1,130.39**
Future Potential Habitat	**15.92**	**95.52**
TOTAL	**99.93**	**4,630.70**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
31 = Loblolly Pine
32 = Shortleaf Pine

Appendix Table H-56. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-14a**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1601	8.24	58	31	6.78	2.50	14.87	11.50	14.54	21.50	4.03	3.38	3.85	9.50	33.00	45.00	1	26	20	3	2	4.14	PS					8.24	271.92
A1602	15.92	30	32	56.60	17.00	9.06	6.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	23.00	1	54	0	3	2	2.66	NH					15.92	95.52
A1709	13.58	42	31	82.75	24.00	38.10	26.50	18.23	26.50	5.35	9.22	2.98	11.50	53.00	88.50	2	31	18	3	2	4.18	PS					13.58	719.74
A1716	4.41	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	4.43	PS			4.41	229.32		
A1717	6.60	77	10	97.34	28.89	59.53	41.11	17.28	21.11	19.22	0.00	1.89	4.44	62.22	95.56	1	33	0	3	2	4.27	PS					6.60	410.65
A1719	53.82	88	31	51.22	14.50	42.47	30.50	17.92	26.00	4.54	3.19	1.40	4.50	56.50	75.50	1	33	0	3	2	3.90	PS					53.82	3,040.83
	102.57																						**0.00**	**0.00**	**4.41**	**229.32**	**98.16**	**4,538.66**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1716	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			2.64	137.28		
			TOTAL REMOVALS	**0.00**	**0.00**	**2.64**	**137.28**	**0.00**	**0.00**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**1.77**	**92.04**
Future Potential Habitat	**98.16**	**4,538.66**
TOTAL	**99.93**	**4,630.70**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
31 = Loblolly Pine
32 = Shortleaf Pine

Appendix Table H-57. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-14a**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1601	8.24	58	31	6.78	2.50	14.87	11.50	14.54	21.50	4.03	3.38	3.85	9.50	33.00	45.00	1	26	20	3	2	1	8.24	271.92				
A1602	15.92	30	32	56.60	17.00	9.06	6.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	23.00	1	54	0	3	2	0					15.92	95.52
A1709	13.58	42	31	82.75	24.00	38.10	26.50	18.23	26.50	5.35	9.22	2.98	11.50	53.00	88.50	2	31	18	3	2	0			13.58	719.74		
A1716	4.41	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	1	4.41	229.32				
A1717	6.60	77	10	97.34	28.89	59.53	41.11	17.28	21.11	19.22	0.00	1.89	4.44	62.22	95.56	1	33	0	3	2	0			6.60	410.65		
A1719	53.82	88	31	51.22	14.50	42.47	30.50	17.92	26.00	4.54	3.19	1.40	4.50	56.50	75.50	1	33	0	3	2	1	53.82	3,040.83				
	102.57																					**66.47**	**3,542.07**	**20.18**	**1,130.39**	**15.92**	**95.52**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1601	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	8.24	271.92				
A1602	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					11.83	70.98
A1709	2010	68733	Multi-purpose Machine Gun Range (MPMG1)			2.39	126.67		
A1709	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			11.19	593.07		
A1716	2010	68733	Multi-purpose Machine Gun Range (MPMG1)	4.41	229.32				
A1717	2010	68733	Multi-purpose Machine Gun Range (MPMG1)			6.07	377.68		
A1717	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex			0.53	32.98		
A1719	2010	68733	Multi-purpose Machine Gun Range (MPMG1)	26.06	1,472.39				
A1719	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex	27.76	1,568.44				
			TOTAL REMOVALS	**66.47**	**3,542.07**	**20.18**	**1,130.39**	**11.83**	**70.98**

POST-PROJECT

	2010 Acres	2010 BA
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**4.09**	**24.54**
TOTAL	**4.09**	**24.54**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Type Burn:
0=no data available
1=non-growing season
2=growing season

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
31 = Loblolly Pine
32 = Shortleaf Pine

Stand Score
0=Unsuitable
1=Suitable

Appendix Table H-58. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-14a**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1601	8.24	58	31	6.78	2.50	14.87	11.50	14.54	21.50	4.03	3.38	3.85	9.50	33.00	45.00	1	26	20	3	2	4.14	PS					8.24	271.92
A1602	15.92	30	32	56.60	17.00	9.06	6.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	23.00	1	54	0	3	2	2.66	NH					15.92	95.52
A1709	13.58	42	31	82.75	24.00	38.10	26.50	18.23	26.50	5.35	9.22	2.98	11.50	53.00	88.50	2	31	18	3	2	4.18	PS					13.58	719.74
A1716	4.41	88	21	32.86	10.50	30.08	22.00	21.29	30.00	1.59	2.25	0.75	2.50	52.00	65.00	2	30	6	3	2	4.43	PS			4.41	229.32		
A1717	6.60	77	10	97.34	28.89	59.53	41.11	17.28	21.11	19.22	0.00	1.89	4.44	62.22	95.56	1	33	0	3	2	4.27	PS					6.60	410.65
A1719	53.82	88	31	51.22	14.50	42.47	30.50	17.92	26.00	4.54	3.19	1.40	4.50	56.50	75.50	1	33	0	3	2	3.90	PS					53.82	3,040.83
	102.57																						**0.00**	**0.00**	**4.41**	**229.32**	**98.16**	**4,538.66**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1601	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					8.24	271.92
A1602	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					11.83	70.98
A1709	2010	68733	Multi-purpose Machine Gun Range (MPMG1)					2.39	126.67
A1709	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					11.19	593.07
A1716	2010	68733	Multi-purpose Machine Gun Range (MPMG1)			4.41	229.32		
A1717	2010	68733	Multi-purpose Machine Gun Range (MPMG1)					6.07	377.68
A1717	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					0.53	32.98
A1719	2010	68733	Multi-purpose Machine Gun Range (MPMG1)					26.06	1,472.39
A1719	2010	n/a	Construction Limits for Multi-purpose Machine Gun Range Complex					27.76	1,568.44
			TOTAL REMOVALS	**0.00**	**0.00**	**4.41**	**229.32**	**94.07**	**4,514.12**

POST-PROJECT

	2010 Acres	2010 BA
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**4.09**	**24.54**
TOTAL	**4.09**	**24.54**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
31 = Loblolly Pine
32 = Shortleaf Pine

Appendix Table H-59. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-14b**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1602	0.64	30	32	56.60	17.00	9.06	6.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	23.00	1	54	0	3	2	0					0.64	3.84
A1608	5.37	45	26	23.59	5.56	11.33	8.89	13.77	18.89	0.00	0.00	1.05	1.11	27.78	34.44	1	42	4	3	2	0					5.37	149.18
A1719	70.89	88	31	51.22	14.50	42.47	30.50	17.92	26.00	4.54	3.19	1.40	4.50	56.50	75.50	1	33	0	3	2	1	70.89	4,005.29				
A1726	12.02	82	26	51.05	17.00	43.07	31.00	15.77	21.50	3.21	2.15	1.72	4.50	52.50	74.00	1	37	6	3	2	1	12.02	631.05				
	88.92																					**82.91**	**4,636.34**	**0.00**	**0.00**	**6.01**	**153.02**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1602	2010	n/a	Construction Limits for the Multi-purpose Machine Gun Range Complex					0.64	3.84
A1719	2010	68733	Multi-purpose Machine Gun Range (MPMG1)	9.50	536.75				
A1719	2010	n/a	Construction Limits for the Multi-purpose Machine Gun Range Complex	41.25	2,330.63				
A1726	2010	n/a	Construction Limits for the Multi-purpose Machine Gun Range Complex	5.61	294.53				
			TOTAL REMOVALS	**56.36**	**3,161.91**	**0.00**	**0.00**	**0.64**	**3.84**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**26.55**	**1,474.43**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**5.37**	**149.18**
TOTAL	**31.92**	**1,623.61**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
32 = Shortleaf Pine

Appendix Table H-60. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A17-14b**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A1602	0.64	30	32	56.60	17.00	9.06	6.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	23.00	1	54	0	3	2	2.66	NH					0.64	3.84
A1608	5.37	45	26	23.59	5.56	11.33	8.89	13.77	18.89	0.00	0.00	1.05	1.11	27.78	34.44	1	42	4	3	2	4.32	PS					5.37	149.18
A1719	70.89	88	31	51.22	14.50	42.47	30.50	17.92	26.00	4.54	3.19	1.40	4.50	56.50	75.50	1	33	0	3	2	3.90	PS					70.89	4,005.29
A1726	12.02	82	26	51.05	17.00	43.07	31.00	15.77	21.50	3.21	2.15	1.72	4.50	52.50	74.00	1	37	6	3	2	4.65	PS					12.02	631.05
	88.92																						**0.00**	**0.00**	**0.00**	**0.00**	**88.92**	**4,789.36**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A1602	2010	n/a	Construction Limits for the Multi-purpose Machine Gun Range Complex					0.64	3.84
A1719	2010	68733	Multi-purpose Machine Gun Range (MPMG1)					9.50	536.75
A1719	2010	n/a	Construction Limits for the Multi-purpose Machine Gun Range Complex					41.25	2,330.63
A1726	2010	n/a	Construction Limits for the Multi-purpose Machine Gun Range Complex					5.61	294.53
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**57.00**	**3,165.75**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**31.92**	**1,623.61**
TOTAL	**31.92**	**1,623.61**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Type Burn:
0=no data available
1=non-growing season
2=growing season

Forest Type:
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
32 = Shortleaf Pine

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Appendix Table H-61. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A20-04**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Forested Acreage (within A20 Impact Area)	Future Potential Acreage	Future Potential BA
A0522	23.91	57	21	31.66	10.50	21.32	14.50	6.72	8.50	25.74	1.57	0.32	1.50	23.00	35.00	4	10	6	3	1	0						23.91	549.93
A0523	20.97	58	21	11.51	3.16	37.93	27.37	17.89	23.16	9.18	0.95	1.36	2.63	50.53	56.32	1	13	4	3	1	1	20.97	1,059.61					
A0525	26.79	61	31	151.03	39.00	33.88	22.50	2.57	3.50	0.00	0.61	0.00	0.50	26.00	65.50	4	25	0	3	1	0						26.79	696.54
A0527	49.25	56	26	32.89	10.00	29.64	21.50	19.03	27.50	9.91	2.09	0.81	2.50	49.00	61.50	5	22	0	3	1	0			49.25	2,413.25			
A0530	10.33	63	31	20.57	5.00	17.03	11.67	12.15	18.33	11.81	1.53	1.15	2.50	30.00	37.50	6	27	0	3	1	0			10.33	309.90			
A0531	4.26	63	31	4.74	2.00	38.81	28.00	25.14	36.00	33.15	10.31	2.80	12.00	64.00	78.00	7	12	0	3	1	0			4.26	272.64			
A0601	11.52	57	31	20.77	5.50	14.19	10.50	10.57	15.50	3.70	1.73	0.61	2.00	26.00	33.50	1	21	0	3	1	0						11.52	299.52
A0606	10.32	54	26	24.46	6.00	29.49	21.50	12.53	20.00	8.68	0.00	1.80	4.00	41.50	51.50	5	24	0	3	1	0			10.32	428.28			
A2001	155.36	80	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					155.36		
A2001	16.76	80	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00		
	329.47																					**20.97**	**1,059.61**	**74.16**	**3,424.07**	**155.36**	**62.22**	**1,545.99**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Forested Acreage (within A20 Impact Area) Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0523	2010	65557	Repair Existing Training Area Roads, Phase 1	2.50	126.33					
A0527	2010	65557	Repair Existing Training Area Roads, Phase 1			3.97	194.53			
A0601	2010	65557	Repair Existing Training Area Roads, Phase 1						1.91	49.66
			TOTAL REMOVALS	**2.50**	**126.33**	**3.97**	**194.53**	**0.00**	**1.91**	**49.66**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**18.47**	**933.28**
Potentially Suitable Habitat	**70.19**	**3,229.54**
Forested Acreage	**155.36**	**0.00**
Future Potential Habitat	**60.31**	**1,496.33**
TOTAL	**304.33**	**5,659.15**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the

Appendix Table H-61. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A20-04**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Forested Acreage (within A20 Impact Area)	Future Potential Acreage	Future Potential BA
A0522	23.91	57	21	31.66	10.50	21.32	14.50	6.72	8.50	25.74	1.57	0.32	1.50	23.00	35.00	4	10	6	3	1	0						23.91	549.93
A0523	20.97	58	21	11.51	3.16	37.93	27.37	17.89	23.16	9.18	0.95	1.36	2.63	50.53	56.32	1	13	4	3	1	1	20.97	1,059.61					
A0525	26.79	61	31	151.03	39.00	33.88	22.50	2.57	3.50	0.00	0.61	0.00	0.50	26.00	65.50	4	25	0	3	1	0						26.79	696.54
A0527	49.25	56	26	32.89	10.00	29.64	21.50	19.03	27.50	9.91	2.09	0.81	2.50	49.00	61.50	5	22	0	3	1	0			49.25	2,413.25			
A0530	10.33	63	31	20.57	5.00	17.03	11.67	12.15	18.33	11.81	1.53	1.15	2.50	30.00	37.50	6	27	0	3	1	0			10.33	309.90			
A0531	4.26	63	31	4.74	2.00	38.81	28.00	25.14	36.00	33.15	10.31	2.80	12.00	64.00	78.00	7	12	0	3	1	0			4.26	272.64			
A0601	11.52	57	31	20.77	5.50	14.19	10.50	10.57	15.50	3.70	1.73	0.61	2.00	26.00	33.50	1	21	0	3	1	0						11.52	299.52
A0606	10.32	54	26	24.46	6.00	29.49	21.50	12.53	20.00	8.68	0.00	1.80	4.00	41.50	51.50	5	24	0	3	1	0			10.32	428.28			
A2001	155.36	80	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					155.36		
A2001	16.76	80	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00		
	329.47																					**20.97**	**1,059.61**	**74.16**	**3,424.07**	**155.36**	**62.22**	**1,545.99**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Forested Acreage (within A20 Impact Area) Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0523	2010	65557	Repair Existing Training Area Roads, Phase 1	2.50	126.33					
A0527	2010	65557	Repair Existing Training Area Roads, Phase 1			3.97	194.53			
A0601	2010	65557	Repair Existing Training Area Roads, Phase 1						1.91	49.66
			TOTAL REMOVALS	**2.50**	**126.33**	**3.97**	**194.53**	**0.00**	**1.91**	**49.66**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**18.47**	**933.28**
Potentially Suitable Habitat	**70.19**	**3,229.54**
Forested Acreage	**155.36**	**0.00**
Future Potential Habitat	**60.31**	**1,496.33**
TOTAL	**304.33**	**5,659.15**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the

Appendix Table H-63. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A20-06**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh.	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0708	0.20	73	21	23.62	6.00	12.48	8.50	12.47	20.50	3.84	2.34	0.70	2.50	29.00	37.50	1	41	11	3	2	0					0.20	5.80
A0709	29.08	54	31	31.84	9.47	20.81	15.26	9.63	13.16	8.74	0.00	2.04	4.21	28.42	42.11	1	22	6	3	2	0					29.08	826.45
A0711	12.32	49	26	34.26	10.00	29.29	20.00	10.07	14.00	7.44	0.00	0.23	0.50	34.00	44.50	1	43	1	3	1	1	12.32	418.88				
A0720	0.56	39	31	23.87	8.00	31.91	22.50	12.73	17.00	0.00	0.00	0.00	0.00	39.50	47.50	1	42	0	3	1	1	0.56	22.12				
A0723	21.23	84	31	25.05	8.42	25.04	17.37	5.75	9.47	1.91	0.00	0.81	1.05	26.84	36.32	1	33	3	3	1	0					21.23	569.81
A0725	32.84	50	31	8.28	2.50	16.40	12.50	16.80	28.50	3.67	2.58	1.65	4.50	41.00	48.00	2	34	11	3	1	1	32.84	1,346.44				
A0804	75.83	57	21	31.74	9.00	15.09	10.50	17.29	24.50	5.29	1.09	1.41	3.50	35.00	47.50	1	30	7	3	1	1	75.83	2,654.05				
pp547*	0.46	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.46	0.00
	172.52																					**121.55**	**4,441.49**	**0.00**	**0.00**	**50.97**	**1,402.06**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0711	2010	65557	Repair Existing Training Area Roads, Phase 1	1.73	58.82				
A0725	2010	65557	Repair Existing Training Area Roads, Phase 1	1.85	75.85				
pp547*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.46	0.00
			TOTAL REMOVALS	**3.58**	**134.67**	**0.00**	**0.00**	**0.46**	**0.00**

POST-PROJECT **2010**

	Acres	BA
Suitable Habitat	**117.97**	**4,306.82**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**50.51**	**1,402.06**
TOTAL	**168.48**	**5,708.88**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P= Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-64. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A20-06**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0708	0.20	73	21	23.62	6.00	12.48	8.50	12.47	20.50	3.84	2.34	0.70	2.50	29.00	37.50	1	41	11	3	2	4.52	PS					0.20	5.80
A0709	29.08	54	31	31.84	9.47	20.81	15.26	9.63	13.16	8.74	0.00	2.04	4.21	28.42	42.11	1	22	6	3	2	3.95	PS					29.08	826.45
A0711	12.32	49	26	34.26	10.00	29.29	20.00	10.07	14.00	7.44	0.00	0.23	0.50	34.00	44.50	1	43	1	3	1	3.87	PS					12.32	418.88
A0720	0.56	39	31	23.87	8.00	31.91	22.50	12.73	17.00	0.00	0.00	0.00	0.00	39.50	47.50	1	42	0	3	1	3.92	PS					0.56	22.12
A0723	21.23	84	31	25.05	8.42	25.04	17.37	5.75	9.47	1.91	0.00	0.81	1.05	26.84	36.32	1	33	3	3	1	3.71	PS					21.23	569.81
A0725	32.84	50	31	8.28	2.50	16.40	12.50	16.80	28.50	3.67	2.58	1.65	4.50	41.00	48.00	2	34	11	3	1	4.39	PS					32.84	1,346.44
A0804	75.83	57	21	31.74	9.00	15.09	10.50	17.29	24.50	5.29	1.09	1.41	3.50	35.00	47.50	1	30	7	3	1	4.38	PS					75.83	2,654.05
pp547*	0.46	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.46	0.00
	172.52																						**0.00**	**0.00**	**0.00**	**0.00**	**172.52**	**5,843.55**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0711	2010	65557	Repair Existing Training Area Roads, Phase 1					1.73	58.82
A0725	2010	65557	Repair Existing Training Area Roads, Phase 1					1.85	75.85
pp547*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.46	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**4.04**	**134.67**

POST-PROJECT

	2009	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**168.48**	**5,708.88**
TOTAL	**168.48**	**5,708.88**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P= Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-65. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A20-06**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh.	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0708	0.20	73	21	23.62	6.00	12.48	8.50	12.47	20.50	3.84	2.34	0.70	2.50	29.00	37.50	1	41	11	3	2	0					0.20	5.80
A0709	29.08	54	31	31.84	9.47	20.81	15.26	9.63	13.16	8.74	0.00	2.04	4.21	28.42	42.11	1	22	6	3	2	0					29.08	826.45
A0711	12.32	49	26	34.26	10.00	29.29	20.00	10.07	14.00	7.44	0.00	0.23	0.50	34.00	44.50	1	43	1	3	1	1	12.32	418.88				
A0720	0.56	39	31	23.87	8.00	31.91	22.50	12.73	17.00	0.00	0.00	0.00	0.00	39.50	47.50	1	42	0	3	1	1	0.56	22.12				
A0723	21.23	84	31	25.05	8.42	25.04	17.37	5.75	9.47	1.91	0.00	0.81	1.05	26.84	36.32	1	33	3	3	1	0					21.23	569.81
A0725	32.84	50	31	8.28	2.50	16.40	12.50	16.80	28.50	3.67	2.58	1.65	4.50	41.00	48.00	2	34	11	3	1	1	32.84	1,346.44				
A0804	75.83	57	21	31.74	9.00	15.09	10.50	17.29	24.50	5.29	1.09	1.41	3.50	35.00	47.50	1	30	7	3	1	1	75.83	2,654.05				
pp547*	0.46	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.46	0.00
	172.52																					**121.55**	**4,441.49**	**0.00**	**0.00**	**50.97**	**1,402.06**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0711	2010	65557	Repair Existing Training Area Roads, Phase 1	1.73	58.82				
A0711	2010	65079	Access Road for Automated Combat Pistol Qual Course	1.89	64.26				
A0723	2010	65079	Automated Combat Pistol Qual Course					0.94	25.23
A0723	2010	65079	Construction Limits for Automated Combat Pistol Qual Course					7.63	204.79
A0725	2010	65557	Repair Existing Training Area Roads, Phase 1	1.85	75.85				
A0725	2010	65079	Access Road for Automated Combat Pistol Qual Course	1.68	68.88				
A0725	2010	65079	Construction Limits for Automated Combat Pistol Qual Course	4.52	185.32				
A0804	2010	65079	Construction Limits for Automated Combat Pistol Qual Course	0.07	2.45				
A0804	2010	65079	Beaten Area for Automated Combat Pistol Qual Course	8.72	305.20				
pp547*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.46	0.00
			TOTAL REMOVALS	**20.46**	**760.78**	**0.00**	**0.00**	**9.03**	**230.02**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**101.09**	**3,680.71**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**41.94**	**1,172.04**
TOTAL	**143.03**	**4,852.75**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P= Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-66. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **A20-06**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0708	0.20	73	21	23.62	6.00	12.48	8.50	12.47	20.50	3.84	2.34	0.70	2.50	29.00	37.50	1	41	11	3	2	4.52	PS					0.20	5.80
A0709	29.08	54	31	31.84	9.47	20.81	15.26	9.63	13.16	8.74	0.00	2.04	4.21	28.42	42.11	1	22	6	3	2	3.95	PS					29.08	826.45
A0711	12.32	49	26	34.26	10.00	29.29	20.00	10.07	14.00	7.44	0.00	0.23	0.50	34.00	44.50	1	43	1	3	1	3.87	PS					12.32	418.88
A0720	0.56	39	31	23.87	8.00	31.91	22.50	12.73	17.00	0.00	0.00	0.00	0.00	39.50	47.50	1	42	0	3	1	3.92	PS					0.56	22.12
A0723	21.23	84	31	25.05	8.42	25.04	17.37	5.75	9.47	1.91	0.00	0.81	1.05	26.84	36.32	1	33	3	3	1	3.71	PS					21.23	569.81
A0725	32.84	50	31	8.28	2.50	16.40	12.50	16.80	28.50	3.67	2.58	1.65	4.50	41.00	48.00	2	34	11	3	1	4.39	PS					32.84	1,346.44
A0804	75.83	57	21	31.74	9.00	15.09	10.50	17.29	24.50	5.29	1.09	1.41	3.50	35.00	47.50	1	30	7	3	1	4.38	PS					75.83	2,654.05
pp547*	0.46	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.46	0.00
	172.52																						**0.00**	**0.00**	**0.00**	**0.00**	**172.52**	**5,843.55**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0711	2010	65557	Repair Existing Training Area Roads, Phase 1					1.73	58.82
A0711	2010	65079	Access Road for Automated Combat Pistol Qual Course					1.89	64.26
A0723	2010	65079	Automated Combat Pistol Qual Course					0.94	25.23
A0723	2010	65079	Construction Limits for Automated Combat Pistol Qual Course					7.63	204.79
A0725	2010	65557	Repair Existing Training Area Roads, Phase 1					1.85	75.85
A0725	2010	65079	Access Road for Automated Combat Pistol Qual Course					1.68	68.88
A0725	2010	65079	Construction Limits for Automated Combat Pistol Qual Course					4.52	185.32
A0804	2010	65079	Construction Limits for Automated Combat Pistol Qual Course					0.07	2.45
A0804	2010	65079	Beaten Area for Automated Combat Pistol Qual Course					8.72	305.20
pp547*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.46	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**29.49**	**990.80**

POST-PROJECT

	2009	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**143.03**	**4,852.75**
TOTAL	**143.03**	**4,852.75**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P= Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-67. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluste **BB03-01R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14"	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
BB0301	0.29	56	10	16.97	5.56	7.61	5.56	9.17	13.89	31.56	18.43	8.28	26.11	19.44	51.11	6	21	61	3	1	0					0.00	0.00
BB0311	21.27	20	31P	87.02	26.50	6.96	4.00	0.47	0.50	6.88	0.71	0.00	0.50	4.50	31.50	4	30	9	3	1	0					21.27	95.72
BB0315	2.49	85	13	10.31	3.33	3.91	3.33	27.01	43.33	58.47	21.68	6.73	26.67	46.67	76.67	7	3	48	3	1	0			2.49	116.21		
BB0317	13.94	89	31	4.23	1.33	0.88	0.67	14.95	28.00	11.22	12.58	3.76	16.00	28.67	46.00	6	9	51	3	2	0					13.94	399.66
BB0318	24.91	79	13	4.59	1.00	3.19	2.00	13.38	27.00	34.84	10.96	7.03	20.00	29.00	50.00	2	8	52	3	1	0					24.91	722.39
BB0320	11.89	85	31	5.72	2.00	0.54	0.50	12.82	23.50	8.35	1.70	1.16	3.00	24.00	29.00	3	30	18	3	2	0					11.89	285.36
BB0321	19.03	89	21	6.13	2.50	16.85	12.50	15.77	22.00	3.61	0.00	0.40	1.00	34.50	38.00	1	20	1	3	2	1	19.03	656.54				
BB0323	5.83	64	66**	26.79	8.00	5.04	3.50	5.17	7.00	39.89	15.98	4.94	18.50	10.50	37.00	5	14	67	3	1	0					0.00	0.00
BB0330	1.84	62	13	0.00	0.00	5.18	5.00	23.98	45.00	122.03	0.00	0.00	0.00	50.00	50.00	7	0	0	3	2	0			1.84	92.00		
BB0331	6.56	89	21	12.26	4.00	20.19	15.00	10.86	14.50	17.52	4.93	3.19	8.50	29.50	42.00	1	14	21	3	2	0					6.56	193.52
BB0336	3.23	37	22U	14.41	5.00	16.17	10.50	0.94	1.00	0.00	0.00	0.00	0.00	11.50	16.50	1	40	0	3	2	0					3.23	37.15
BB0337	2.22	62	31	0.00	0.00	61.71	43.33	8.27	10.00	0.00	0.00	0.00	0.00	53.33	53.33	6	13	0	3	2	0			2.22	118.39		
BB0401	2.37	61	25	55.22	15.71	26.68	18.57	11.35	17.14	6.72	15.08	2.47	15.71	35.71	67.14	2	23	32	3	1	1	0.00	0.00				
BB0411	5.85	61	31	107.60	27.14	26.22	17.14	0.00	0.00	14.99	2.29	1.30	2.86	17.14	47.14	1	20	12	3	1	0					0.00	0.00
BB0419	4.56	58	31	36.62	9.47	31.35	22.63	12.14	16.84	10.96	11.13	4.53	15.26	39.47	64.21	1	13	26	3	1	1	0.00	0.00				
BB0424	4.45	68	26	42.00	13.00	22.44	16.00	21.17	32.50	6.39	2.96	1.83	4.50	48.50	66.00	2	15	10	3	1	1	4.45	215.83				
BB0425	2.40	49	22P	88.51	26.00	26.97	18.00	2.93	4.00	13.37	2.04	0.00	1.50	22.00	49.50	2	12	6	3	1	0					2.40	52.80
P0314	33.02	53	10	22.03	5.63	21.47	15.00	17.33	25.63	51.26	11.00	5.94	15.63	40.63	61.88	7	8	30	3	2	0			0.00	0.00		
P0317	3.42	20	31P	185.79	60.00	28.39	17.14	0.00	0.00	16.60	0.00	0.00	0.00	17.14	77.14	5	19	0	3	2	0					0.00	0.00
P0320	8.47	20	31P	201.40	53.00	8.36	5.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	58.00	1	16	0	3	2	0					0.00	0.00
pp530*	0.29	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp754*	0.36	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp755*	15.62	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					15.62	0.00
pp876*	8.85	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp877*	2.51	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp878*	0.78	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.78	0.00
	206.45																					**23.48**	**872.37**	**6.55**	**326.60**	**100.60**	**1,786.60**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
BB0315	2010	65557	Repair Existing Training Area Roads, Phase 1			0.48	22.40		
BB0320	2010	65557	Repair Existing Training Area Roads, Phase 1					4.35	104.40
BB0321	2010	65557	Repair Existing Training Area Roads, Phase 1	0.24	8.28				
BB0331	2010	65557	Repair Existing Training Area Roads, Phase 1					1.20	35.40
BB0336	2010	65557	Repair Existing Training Area Roads, Phase 1					1.47	16.91
BB0424	**2010**	**65557**	**Repair Existing Training Area Roads, Phase**	**0.31**	**15.04**				
BB0425	2010	65557	Repair Existing Training Area Roads, Phase 1					1.36	29.92
pp878*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.05	0.00
			TOTAL REMOVALS	**0.55**	**23.32**	**0.48**	**22.40**	**8.43**	**186.63**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**22.93**	**849.05**
Potentially Suitable Habitat	**6.07**	**304.20**
Future Potential Habitat	**92.17**	**1,599.97**
TOTAL	**121.17**	**2,753.22**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P - Slash Pine Plantation
22U = Slash Pine Underplanted
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31P = Loblolly Pine Plantation
66** = Oak-Hickory (managed for hardwoods)

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-68. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **BB03-01R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
BB0301	0.29	56	10	16.97	5.56	7.61	5.56	9.17	13.89	31.56	18.43	8.28	26.11	19.44	51.11	6	21	61	3	1	3.03	PS					0.00	0.00
BB0311	21.27	20	31P	87.02	26.50	6.96	4.00	0.47	0.50	6.88	0.71	0.00	0.50	4.50	31.50	4	30	9	3	1	2.27	NH					21.27	95.72
BB0315	2.49	85	13	10.31	3.33	3.91	3.33	27.01	43.33	58.47	21.68	6.73	26.67	46.67	76.67	7	3	48	3	1	3.79	PS			2.49	116.21		
BB0317	13.94	89	31	4.23	1.33	0.88	0.67	14.95	28.00	11.22	12.58	3.76	16.00	28.67	46.00	6	9	51	3	2	3.80	PS					13.94	399.66
BB0318	24.91	79	13	4.59	1.00	3.19	2.00	13.38	27.00	34.84	10.96	7.03	20.00	29.00	50.00	2	8	52	3	1	3.88	PS					24.91	722.39
BB0320	11.89	85	31	5.72	2.00	0.54	0.50	12.82	23.50	8.35	1.70	1.16	3.00	24.00	29.00	3	30	18	3	2	4.03	PS					11.89	285.36
BB0321	19.03	89	21	6.13	2.50	16.85	12.50	15.77	22.00	3.61	0.00	0.40	1.00	34.50	38.00	1	20	1	3	2	4.18	PS					19.03	656.54
BB0323	5.83	64	66**	26.79	8.00	5.04	3.50	5.17	7.00	39.89	15.98	4.94	18.50	10.50	37.00	5	14	67	3	1	2.90	PS					0.00	0.00
BB0330	1.84	62	13	0.00	0.00	5.18	5.00	23.98	45.00	122.03	0.00	0.00	0.00	50.00	50.00	7	0	0	3	2	3.94	PS			1.84	92.00		
BB0331	6.56	89	21	12.26	4.00	20.19	15.00	10.86	14.50	17.52	4.93	3.19	8.50	29.50	42.00	1	14	21	3	2	3.70	PS					6.56	193.52
BB0336	3.23	37	22U	14.41	5.00	16.17	10.50	0.94	1.00	0.00	0.00	0.00	0.00	11.50	16.50	1	40	0	3	2	2.80	PS					3.23	37.15
BB0337	2.22	62	31	0.00	0.00	61.71	43.33	8.27	10.00	0.00	0.00	0.00	0.00	53.33	53.33	6	13	0	3	2	3.10	PS					2.22	118.39
BB0401	2.37	61	25	55.22	15.71	26.68	18.57	11.35	17.14	6.72	15.08	2.47	15.71	35.71	67.14	2	23	32	3	1	3.76	PS					0.00	0.00
BB0411	5.85	61	31	107.60	27.14	26.22	17.14	0.00	0.00	14.99	2.29	1.30	2.86	17.14	47.14	1	20	12	3	1	2.84	PS					0.00	0.00
BB0419	4.56	58	31	36.62	9.47	31.35	22.63	12.14	16.84	10.96	11.13	4.53	15.26	39.47	64.21	1	13	26	3	1	3.56	PS					0.00	0.00
BB0424	4.45	68	26	42.00	13.00	22.44	16.00	21.17	32.50	6.39	2.96	1.83	4.50	48.50	66.00	2	15	10	3	1	4.15	PS			4.45	215.83		
BB0425	2.40	49	22P	88.51	26.00	26.97	18.00	2.93	4.00	13.37	2.04	0.00	1.50	22.00	49.50	2	12	6	3	1	2.51	PS					2.40	52.80
P0314	33.02	53	10	22.03	5.63	21.47	15.00	17.33	25.63	51.26	11.00	5.94	15.63	40.63	61.88	7	8	30	3	2	3.64	PS					33.02	1,341.60
P0317	3.42	20	31P	185.79	60.00	28.39	17.14	0.00	0.00	16.60	0.00	0.00	0.00	17.14	77.14	5	19	0	3	2	2.08	NH					3.42	58.62
P0320	8.47	20	31P	201.40	53.00	8.36	5.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	58.00	1	16	0	3	2	2.31	NH					8.47	42.35
pp530*	0.29	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.60	NH					0.00	0.00
pp754*	0.36	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.60	NH					0.00	0.00
pp755*	15.62	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.60	NH					15.62	0.00
pp876*	8.85	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.60	NH					0.00	0.00
pp877*	2.51	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.60	NH					0.00	0.00
pp878*	0.78	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	NH					0.78	0.00
	206.45																						**0.00**	**0.00**	**8.78**	**424.04**	**166.76**	**4,004.10**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
BB0315	2010	65557	Repair Existing Training Area Roads, Phase 1			0.48	22.40		
BB0320	2010	65557	Repair Existing Training Area Roads, Phase 1					4.35	104.40
BB0321	2010	65557	Repair Existing Training Area Roads, Phase 1					0.24	8.28
BB0331	2010	65557	Repair Existing Training Area Roads, Phase 1					1.20	35.40
BB0336	2010	65557	Repair Existing Training Area Roads, Phase 1					1.47	16.91
BB0424	2010	65557	Repair Existing Training Area Roads, Phase 1			0.31	15.04		
BB0425	2010	65557	Repair Existing Training Area Roads, Phase 1					1.36	29.92
pp878*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.05	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.79**	**37.44**	**8.67**	**194.91**

POST-PROJECT

	2010 Acres	2010 BA
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**7.99**	**386.60**
Future Potential Habitat	**158.09**	**3,809.19**
TOTAL	**166.08**	**4,195.79**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P - Slash Pine Plantation
22U = Slash Pine Underplanted
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31P = Loblolly Pine Plantation
66** = Oak-Hickory (managed for hardwoods)

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-69. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Clus **BB04-01R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0613	14.55	57	21	31.05	8.00	30.23	22.00	17.93	24.00	5.42	1.31	0.22	1.50	46.00	55.50	1	14	3	3	2	1	14.55	669.30				
BB0336	3.75	37	22U	14.41	5.00	16.17	10.50	0.94	1.00	0.00	0.00	0.00	0.00	11.50	16.50	1	40	0	3	2	0					3.75	43.13
BB0337	0.11	62	31	0.00	0.00	61.71	43.33	8.27	10.00	0.00	0.00	0.00	0.00	53.33	53.33	6	13	0	3	2	0			0.11	5.87		
BB0407	1.37	53	31	3.06	1.00	11.62	7.50	20.50	41.00	66.27	23.12	4.18	21.00	48.50	70.50	7	11	46	3	1	0			1.37	66.45		
BB0411	9.91	61	31	107.60	27.14	26.22	17.14	0.00	0.00	14.99	2.29	1.30	2.86	17.14	47.14	1	20	12	3	1	0					9.91	169.86
BB0419	19.40	58	31	36.62	9.47	31.35	22.63	12.14	16.84	10.96	11.13	4.53	15.26	39.47	64.21	1	13	26	3	1	1	19.40	765.72				
BB0422	7.81	61	21	44.10	11.50	18.46	12.50	13.12	18.50	22.91	4.61	1.73	5.00	31.00	47.50	1	25	17	3	1	1	7.81	242.11				
BB0424	13.22	68	26	42.00	13.00	22.44	16.00	21.17	32.50	6.39	2.96	1.83	4.50	48.50	66.00	2	15	10	3	1	1	13.22	641.17				
BB0425	11.77	49	22P	88.51	26.00	26.97	18.00	2.93	4.00	13.37	2.04	0.00	1.50	22.00	49.50	2	12	6	3	1	0					11.77	258.94
BB0434	0.18	44	26P	71.25	15.00	71.90	52.50	34.21	50.00	17.85	0.00	0.00	0.00	102.50	117.50	1	15	0	3	1	0			0.18	18.45		
BB0435	0.58	44	10	116.62	35.00	23.49	16.67	6.82	10.00	21.54	2.31	1.98	5.00	26.67	66.67	5	10	12	3	1	0					0.58	15.47
BB0436	10.92	83	31	41.95	11.00	14.02	10.50	11.27	19.00	8.80	6.18	7.56	17.00	29.50	57.50	1	11	35	3	1	0					10.92	322.14
BB0437	10.85	83	21	10.48	2.50	7.20	5.50	23.02	37.00	4.49	2.44	0.83	2.50	42.50	47.50	1	26	10	3	1	1	10.85	461.13				
BB0439	10.00	68	26	24.41	7.00	18.76	12.50	18.21	27.00	17.27	4.23	3.31	8.00	39.50	54.50	1	20	17	3	1	1	10.00	395.00				
BB0442	26.68	59	26	40.10	11.50	22.87	16.50	13.42	19.50	6.01	0.58	3.50	7.00	36.00	54.50	1	13	10	3	1	1	26.68	960.48				
BB0443	2.36	59	22P	114.97	40.00	132.51	85.00	0.00	0.00	0.00	0.00	0.00	0.00	85.00	125.00	1	25	0	3	1	0			2.36	200.60		
HCC10	0.09	77	21	8.69	2.00	11.19	8.00	12.45	19.50	8.63	0.00	1.05	2.00	27.50	31.50	6	31	4	3	1	0					0.00	0.00
pp531*	0.35	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.35	0.00
	143.90																					**102.51**	**4,134.91**	**4.02**	**291.37**	**37.28**	**809.54**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0613	2010	65557	Repair Existing Training Area Roads, Phase 1	7.21	331.66				
BB0336	2010	65557	Repair Existing Training Area Roads, Phase 1					1.60	18.40
BB0425	2010	65557	Repair Existing Training Area Roads, Phase 1					2.43	53.46
BB0439	2010	65557	Repair Existing Training Area Roads, Phase 1	0.27	10.67				
			TOTAL REMOVALS	**7.48**	**342.33**	**0.00**	**0.00**	**4.03**	**71.86**

POST-PROJECT	**2010 SUB-TOTAL**		**non-contiguous habitat**		**2010 TOTAL**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**95.03**	**3,792.58**	**7.34**	**337.64**	**87.69**	**3,454.94**
Potentially Suitable Habitat	**4.02**	**291.37**	**0.00**	**0.00**	**4.02**	**291.37**
Future Potential Habitat	**33.25**	**737.68**	**0.00**	**0.00**	**33.25**	**737.68**
TOTAL	**132.30**	**4,821.63**	**7.34**	**337.64**	**124.96**	**4,483.99**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
22U = Slash Pine Underplanted
26 = Mixed Pine-Longleaf
26P = Mixed Pine-Longleaf Plantation
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Stand A0613 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-70. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **BB04-01R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0613	14.55	57	21	31.05	8.00	30.23	22.00	17.93	24.00	5.42	1.31	0.22	1.50	46.00	55.50	1	14	3	3	2	3.92	PS					14.55	669.30
BB0336	3.75	37	22U	14.41	5.00	16.17	10.50	0.94	1.00	0.00	0.00	0.00	0.00	11.50	16.50	1	40	0	3	2	3.11	PS					3.75	43.13
BB0337	0.11	62	31	0.00	0.00	61.71	43.33	8.27	10.00	0.00	0.00	0.00	0.00	53.33	53.33	6	13	0	3	2	3.42	PS					0.11	5.87
BB0407	1.37	53	31	3.06	1.00	11.62	7.50	20.50	41.00	66.27	23.12	4.18	21.00	48.50	70.50	7	11	46	3	1	3.81	PS					1.37	66.45
BB0411	9.91	61	31	107.60	27.14	26.22	17.14	0.00	0.00	14.99	2.29	1.30	2.86	17.14	47.14	1	20	12	3	1	3.09	PS					9.91	169.86
BB0419	19.40	58	31	36.62	9.47	31.35	22.63	12.14	16.84	10.96	11.13	4.53	15.26	39.47	64.21	1	13	26	3	1	3.68	PS					19.40	765.72
BB0422	7.81	61	21	44.10	11.50	18.46	12.50	13.12	18.50	22.91	4.61	1.73	5.00	31.00	47.50	1	25	17	3	1	4.05	PS					7.81	242.11
BB0424	13.22	68	26	42.00	13.00	22.44	16.00	21.17	32.50	6.39	2.96	1.83	4.50	48.50	66.00	2	15	10	3	1	4.22	PS			13.22	641.17		
BB0425	11.77	49	22P	88.51	26.00	26.97	18.00	2.93	4.00	13.37	2.04	0.00	1.50	22.00	49.50	2	12	6	3	1	2.82	PS					11.77	258.94
BB0434	0.18	44	26P	71.25	15.00	71.90	52.50	34.21	50.00	17.85	0.00	0.00	0.00	102.50	117.50	1	15	0	3	1	4.08	PS					0.18	18.45
BB0435	0.58	44	10	116.62	35.00	23.49	16.67	6.82	10.00	21.54	2.31	1.98	5.00	26.67	66.67	5	10	12	3	1	2.94	PS					0.58	15.47
BB0436	10.92	83	31	41.95	11.00	14.02	10.50	11.27	19.00	8.80	6.18	7.56	17.00	29.50	57.50	1	11	35	3	1	3.67	PS					10.92	322.14
BB0437	10.85	83	21	10.48	2.50	7.20	5.50	23.02	37.00	4.49	2.44	0.83	2.50	42.50	47.50	1	26	10	3	1	4.65	CS	10.85	461.13				
BB0439	10.00	68	26	24.41	7.00	18.76	12.50	18.21	27.00	17.27	4.23	3.31	8.00	39.50	54.50	1	20	17	3	1	4.36	PS			10.00	395.00		
BB0442	26.68	59	26	40.10	11.50	22.87	16.50	13.42	19.50	6.01	0.58	3.50	7.00	36.00	54.50	1	13	10	3	1	3.92	PS					26.68	960.48
BB0443	2.36	59	22P	114.97	40.00	132.51	85.00	0.00	0.00	0.00	0.00	0.00	0.00	85.00	125.00	1	25	0	3	1	3.04	PS					2.36	200.60
HCC10	0.09	77	21	8.69	2.00	11.19	8.00	12.45	19.50	8.63	0.00	1.05	2.00	27.50	31.50	6	31	4	3	1	3.97	PS					0.00	0.00
pp531*	0.35	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.35	0.00
	143.90																						**10.85**	**461.13**	**23.22**	**1,036.17**	**109.74**	**3,738.52**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0613	2010	65557	Repair Existing Training Area Roads, Phase 1					7.21	331.66
BB0336	2010	65557	Repair Existing Training Area Roads, Phase 1					1.60	18.40
BB0425	2010	65557	Repair Existing Training Area Roads, Phase 1					2.43	53.46
BB0439	2010	65557	Repair Existing Training Area Roads, Phase 1			0.27	10.67		
			TOTAL REMOVALS	**0.00**	**0.00**	**0.27**	**10.67**	**11.24**	**403.52**

POST-PROJECT	**2010 SUB-TOTAL**		**non-contiguous habitat**		**2010 TOTAL**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**10.85**	**461.13**	**0.00**	**0.00**	**10.85**	**461.13**
Potentially Suitable Habitat	**22.95**	**1,025.50**	**0.00**	**0.00**	**22.95**	**1,025.50**
Future Potential Habitat	**98.50**	**3,335.00**	**7.34**	**337.64**	**91.16**	**2,997.36**
TOTAL	**132.30**	**4,821.63**	**7.34**	**337.64**	**124.96**	**4,483.99**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
22U = Slash Pine Underplanted
26 = Mixed Pine-Longleaf
26P = Mixed Pine-Longleaf Plantation
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Stand A0613 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-71. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **BB05-01R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0606	1.69	54	26	24.46	6.00	29.49	21.50	12.53	20.00	8.68	0.00	1.80	4.00	41.50	51.50	5	24	4	3	1	0			1.69	70.14		
A0613	33.65	57	21	31.05	8.00	30.23	22.00	17.93	24.00	5.42	1.31	0.22	1.50	46.00	55.50	1	14	3	3	2	1	33.65	1,547.90				
BB0406	13.62	67	31	123.57	34.50	46.90	30.00	10.27	14.00	5.78	0.67	0.00	0.50	44.00	79.00	1	21	1	3	1	0			13.62	599.28		
BB0407	1.48	53	31	3.06	1.00	11.62	7.50	20.50	41.00	66.27	23.12	4.18	21.00	48.50	70.50	7	11	46	3	1	0			1.48	71.78		
BB0416	3.22	67	25	174.50	50.00	64.75	45.00	1.66	2.50	25.22	10.21	4.38	15.00	47.50	112.50	1	7	18	3	1	0			3.22	152.95		
BB0417	5.10	67	26	116.53	32.50	56.87	37.50	5.51	7.50	0.00	2.25	0.00	1.25	45.00	78.75	1	9	3	3	1	0			5.10	229.50		
BB0419	2.17	58	31	36.62	9.47	31.35	22.63	12.14	16.84	10.96	11.13	4.53	15.26	39.47	64.21	1	13	26	3	1	1	2.17	85.65				
BB0502	0.70	45	31	86.27	24.00	44.02	35.00	14.91	21.00	9.92	3.57	0.00	3.00	56.00	83.00	6	9	6	3	2	0			0.70	39.20		
BB0504	3.47	50	31	104.49	32.50	61.30	40.00	18.79	22.50	0.00	0.00	0.00	0.00	62.50	95.00	7	10	0	3	2	0			3.47	216.88		
BB0509	7.73	45	31	17.18	4.00	10.53	7.50	11.50	17.50	20.44	8.17	5.51	13.00	25.00	42.00	5	19	38	3	2	0					7.73	193.25
BB0510	18.91	33	31	30.67	8.50	28.39	20.50	9.11	11.50	0.00	0.69	0.15	1.00	32.00	41.50	8	22	2	3	2	0			18.91	605.12		
BB0516	17.14	50	31	6.62	1.50	7.31	5.50	20.49	42.00	31.34	19.79	3.94	19.50	47.50	68.50	7	14	46	3	2	0			17.14	814.15		
BB0517	15.67	50	31	21.17	6.00	8.67	6.00	14.81	21.00	6.29	1.48	2.76	6.00	27.00	39.00	6	18	15	3	2	0					15.67	423.09
BB0518	5.78	33	26	75.74	21.11	23.52	16.67	8.13	11.11	0.00	1.15	1.71	3.33	27.78	52.22	6	12	8	3	2	0					5.78	160.57
BB0519	2.22	33	21	167.41	55.00	23.49	15.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	70.00	1	25	0	3	2	0					2.22	33.30
BB0522	15.46	44	42**	2.93	1.00	6.34	5.00	18.31	37.50	45.60	17.92	6.06	22.50	42.50	66.00	7	16	49	3	2	0					0.00	0.00
BB0523	17.24	50	21	25.33	7.50	22.48	16.50	10.51	14.00	9.87	2.61	1.87	5.00	30.50	43.00	1	29	12	3	2	1	17.24	525.82				
BB0524	23.48	50	26	5.07	2.00	11.79	9.00	17.97	25.50	1.33	1.93	1.23	3.50	34.50	40.00	1	13	10	3	2	1	23.48	810.06				
BB0525	10.71	50	26	39.55	10.50	28.77	20.00	15.13	22.50	1.06	0.00	0.00	0.00	42.50	53.00	1	35	0	3	2	1	10.71	455.18				
BB0527	24.89	44	31	36.37	9.50	21.79	16.50	11.76	16.50	2.38	0.80	2.22	4.00	33.00	46.50	8	17	8	3	2	0			24.89	821.37		
BB0528	3.33	48	21	22.88	6.67	19.48	13.33	6.53	10.00	0.00	4.17	0.00	3.33	23.33	33.33	1	20	14	3	2	0					3.33	77.69
BB0530	9.36	48	31	21.31	6.67	21.43	15.56	11.58	16.67	0.00	0.00	0.00	0.00	32.22	38.89	8	17	0	3	2	0			9.36	301.58		
BB0532	1.83	48	25	46.19	10.00	12.23	10.00	14.69	20.00	0.00	0.00	0.00	0.00	30.00	40.00	8	45	0	3	2	0			1.83	54.90		
BB0535	15.29	50	31	9.14	3.00	15.77	13.00	11.76	14.50	0.00	1.05	0.73	2.50	27.50	33.00	8	17	6	3	2	0					15.29	420.48
pp545*	0.13	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.13	0.00
pp593*	2.03	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.03	0.00
pp594*	3.16	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.16	0.00
	259.46																					**87.25**	**3,424.61**	**101.41**	**3,976.85**	**55.34**	**1,308.38**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0606	2010	65557	Repair Existing Training Area Roads, Phase			0.59	24.49		
A0613	2010	65557	Repair Existing Training Area Roads, Phase 1	12.62	580.52				
BB0535	2010	65557	Repair Existing Training Area Roads, Phase 1					0.40	11.00
pp545*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.13	0.00
			TOTAL REMOVALS	**12.62**	**580.52**	**0.59**	**24.49**	**0.53**	**11.00**

POST-PROJECT

	2010 Acres	2010 BA
Suitable Habitat	**74.63**	**2,844.09**
Potentially Suitable Habitat	**100.82**	**3,952.36**
Future Potential Habitat	**54.81**	**1,297.38**
TOTAL	**230.26**	**8,093.83**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)

* No pine data collected for pine plantation stands less than 30 years old.

Appendix Table H-72. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **BB05-01R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable/ Potentially Suitable Acreage	Suitable/ Potentially Suitable BA	Suitable/ Potentially Suitable Acreage	Suitable/ Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0606	1.69	54	26	24.46	6.00	29.49	21.50	12.53	20.00	8.68	0.00	1.80	4.00	41.50	51.50	5	24	4	3	1	3.96	PS					1.69	70.14
A0613	33.65	57	21	31.05	8.00	30.23	22.00	17.93	24.00	5.42	1.31	0.22	1.50	46.00	55.50	1	14	3	3	2	3.92	PS					33.65	1,547.90
BB0406	13.62	67	31	123.57	34.50	46.90	30.00	10.27	14.00	5.78	0.67	0.00	0.50	44.00	79.00	1	21	1	3	1	3.91	PS					13.62	599.28
BB0407	1.48	53	31	3.06	1.00	11.62	7.50	20.50	41.00	66.27	23.12	4.18	21.00	48.50	70.50	7	11	46	3	1	3.81	PS					1.48	71.78
BB0416	3.22	67	25	174.50	50.00	64.75	45.00	1.66	2.50	25.22	10.21	4.38	15.00	47.50	112.50	1	7	18	3	1	2.96	PS					3.22	152.95
BB0417	5.10	67	26	116.53	32.50	56.87	37.50	5.51	7.50	0.00	2.25	0.00	1.25	45.00	78.75	1	9	3	3	1	3.42	PS					5.10	229.50
BB0419	2.17	58	31	36.62	9.47	31.35	22.63	12.14	16.84	10.96	11.13	4.53	15.26	39.47	64.21	1	13	26	3	1	3.68	PS					2.17	85.65
BB0502	0.70	45	31	86.27	24.00	44.02	35.00	14.91	21.00	9.92	3.57	0.00	3.00	56.00	83.00	6	9	6	3	2	3.81	PS					0.70	39.20
BB0504	3.47	50	31	104.49	32.50	61.30	40.00	18.79	22.50	0.00	0.00	0.00	0.00	62.50	95.00	7	10	0	3	2	4.06	PS					3.47	216.88
BB0509	7.73	45	31	17.18	4.00	10.53	7.50	11.50	17.50	20.44	8.17	5.51	13.00	25.00	42.00	5	19	38	3	2	3.34	PS					7.73	193.25
BB0510	18.91	33	31	30.67	8.50	28.39	20.50	9.11	11.50	0.00	0.69	0.15	1.00	32.00	41.50	8	22	2	3	2	3.33	PS					18.91	605.12
BB0516	17.14	50	31	6.62	1.50	7.31	5.50	20.49	42.00	31.34	19.79	3.94	19.50	47.50	68.50	7	14	46	3	2	3.96	PS					17.14	814.15
BB0517	15.67	50	31	21.17	6.00	8.67	6.00	14.81	21.00	6.29	1.48	2.76	6.00	27.00	39.00	6	18	15	3	2	4.00	PS					15.67	423.09
BB0518	5.78	33	26	75.74	21.11	23.52	16.67	8.13	11.11	0.00	1.15	1.71	3.33	27.78	52.22	6	12	8	3	2	3.11	PS					5.78	160.57
BB0519	2.22	33	21	167.41	55.00	23.49	15.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	70.00	1	25	0	3	2	2.86	PS					2.22	33.30
BB0522	15.46	44	42**	2.93	1.00	6.34	5.00	18.31	37.50	45.60	17.92	6.06	22.50	42.50	66.00	7	16	49	3	2	3.83	PS					0.00	0.00
BB0523	17.24	50	21	25.33	7.50	22.48	16.50	10.51	14.00	9.87	2.61	1.87	5.00	30.50	43.00	1	29	12	3	2	3.90	PS					17.24	525.82
BB0524	23.48	50	26	5.07	2.00	11.79	9.00	17.97	25.50	1.33	1.93	1.23	3.50	34.50	40.00	1	13	10	3	2	3.90	PS					23.48	810.06
BB0525	10.71	50	26	39.55	10.50	28.77	20.00	15.13	22.50	1.06	0.00	0.00	0.00	42.50	53.00	1	35	0	3	2	4.54	PS					10.71	455.18
BB0527	24.89	44	31	36.37	9.50	21.79	16.50	11.76	16.50	2.38	0.80	2.22	4.00	33.00	46.50	8	17	8	3	2	3.54	PS					24.89	821.37
BB0528	3.33	48	21	22.88	6.67	19.48	13.33	6.53	10.00	0.00	4.17	0.00	3.33	23.33	33.33	1	20	14	3	2	3.28	PS					3.33	77.69
BB0530	9.36	48	31	21.31	6.67	21.43	15.56	11.58	16.67	0.00	0.00	0.00	0.00	32.22	38.89	8	17	0	3	2	3.52	PS					9.36	301.58
BB0532	1.83	48	25	46.19	10.00	12.23	10.00	14.69	20.00	0.00	0.00	0.00	0.00	30.00	40.00	8	45	0	3	2	4.05	PS					1.83	54.90
BB0535	15.29	50	31	9.14	3.00	15.77	13.00	11.76	14.50	0.00	1.05	0.73	2.50	27.50	33.00	8	17	6	3	2	3.53	PS					15.29	420.48
pp545*	0.13	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.13	0.00
pp593*	2.03	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.03	0.00
pp594*	3.16	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.16	0.00
	259.46																						**0.00**	**0.00**	**0.00**	**0.00**	**244.00**	**8,709.84**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0606	2010	65557	Repair Existing Training Area Roads, Phase 1					0.59	24.49
A0613	2010	65557	Repair Existing Training Area Roads, Phase 1					12.62	580.52
BB0535	2010	65557	Repair Existing Training Area Roads, Phase 1					0.40	11.00
pp545*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.13	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**13.74**	**616.01**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**230.26**	**8,093.83**
TOTAL	**230.26**	**8,093.83**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)

* No pine data collected for pine plantation stands less than 30 years old.

Appendix Table H-73. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **C01-02 Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
C0111	0.30	83	31	7.87	2.50	9.84	7.00	23.64	44.50	7.35	0.00	0.87	1.00	51.50	55.00	1	34	3	3	1	1	0.30	15.45				
C0113	0.10	24	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.10	0.00
C0116	47.68	80	26	12.94	3.50	6.38	4.50	21.11	39.50	3.40	0.53	0.75	2.00	44.00	49.50	8	30	4	3	1	0			47.68	2,097.92		
C0117	4.76	24	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					4.76	0.00
C0118	9.43	95	25	202.85	45.56	28.57	18.89	8.40	11.11	0.00	0.00	0.78	1.11	30.00	76.67	6	29	2	3	1	0			9.43	282.90		
C0120	16.36	95	25	29.38	9.50	14.79	10.00	23.19	40.00	29.60	11.46	5.52	15.50	50.00	75.00	7	11	31	3	1	0			16.36	818.00		
EE0223	0.12	52	31	9.83	3.75	18.82	15.00	14.17	22.50	20.08	5.70	3.09	7.50	37.50	48.75	1	14	21	3	1	1	0.12	4.50				
EE0225	61.83	94	31	75.01	20.50	21.53	14.50	14.25	22.00	5.24	4.31	1.67	6.00	36.50	63.00	6	25	14	3	1	0			61.83	2,256.80		
EE0233	9.41	52	31	43.93	14.00	26.87	20.00	18.45	24.00	13.93	1.93	0.41	1.50	44.00	59.50	6	28	5	3	1	0			9.41	414.04		
pp740*	1.97	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.97	0.00
pp981*	9.73	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					9.73	0.00
pp982*	1.79	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.79	0.00
Q0203	4.36	57	31	46.04	15.00	38.80	27.50	19.32	25.00	19.76	2.18	0.00	1.50	52.50	69.00	6	50	4	3	1	0			4.36	228.90		
Q0204	18.16	57	31	59.33	17.37	26.80	18.42	9.92	15.26	30.67	2.70	0.00	1.58	33.68	52.63	6	32	7	3	1	0			18.16	611.63		
Q0205	0.05	102	31	22.10	5.00	6.93	5.00	12.92	27.50	11.22	10.11	6.91	18.75	32.50	56.25	8	18	46	3	1	0			0.05	1.63		
	186.05																					**0.42**	**19.95**	**167.28**	**6,711.82**	**18.35**	**0.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
Q0204	2009	69741	Alternate 19D/K OSUT Training Area Roads			2.34	78.81		
			TOTAL REMOVALS	**0.00**	**0.00**	**2.34**	**78.81**	**0.00**	**0.00**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.42**	**19.95**
Potentially Suitable Habitat	**164.94**	**6,633.01**
Future Potential Habitat	**18.35**	**0.00**
TOTAL	**183.71**	**6,652.96**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
NM = not managed

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-74. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **C01-02**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
C0111	0.30	83	31	7.87	2.50	9.84	7.00	23.64	44.50	7.35	0.00	0.87	1.00	51.50	55.00	1	34	3	3	1	4.75	CS	0.30	15.45				
C0113	0.10	24	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.10	0.00
C0116	47.68	80	26	12.94	3.50	6.38	4.50	21.11	39.50	3.40	0.53	0.75	2.00	44.00	49.50	8	30	4	3	1	4.30	PS			47.68	2,097.92		
C0117	4.76	24	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					4.76	0.00
C0118	9.43	95	25	202.85	45.56	28.57	18.89	8.40	11.11	0.00	0.00	0.78	1.11	30.00	76.67	6	29	2	3	1	3.43	PS					9.43	282.90
C0120	16.36	95	25	29.38	9.50	14.79	10.00	23.19	40.00	29.60	11.46	5.52	15.50	50.00	75.00	7	11	31	3	1	3.93	PS			16.36	818.00		
EE0223	0.12	52	31	9.83	3.75	18.82	15.00	14.17	22.50	20.08	5.70	3.09	7.50	37.50	48.75	1	14	21	3	1	4.08	PS					0.12	4.50
EE0225	61.83	94	31	75.01	20.50	21.53	14.50	14.25	22.00	5.24	4.31	1.67	6.00	36.50	63.00	6	25	14	3	1	4.05	PS					61.83	2,256.80
EE0233	9.41	52	31	43.93	14.00	26.87	20.00	18.45	24.00	13.93	1.93	0.41	1.50	44.00	59.50	6	28	5	3	1	4.20	PS					9.41	414.04
pp740*	1.97	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.97	0.00
pp981*	9.73	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					9.73	0.00
pp982*	1.79	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.79	0.00
Q0203	4.36	57	31	46.04	15.00	38.80	27.50	19.32	25.00	19.76	2.18	0.00	1.50	52.50	69.00	6	50	4	3	1	4.40	PS					4.36	228.90
Q0204	18.16	57	31	59.33	17.37	26.80	18.42	9.92	15.26	30.67	2.70	0.00	1.58	33.68	52.63	6	32	7	3	1	3.78	PS					18.16	611.63
Q0205	0.05	102	31	22.10	5.00	6.93	5.00	12.92	27.50	11.22	10.11	6.91	18.75	32.50	56.25	8	18	46	3	1	3.23	PS					0.05	1.63
	186.05																						**0.30**	**15.45**	**64.04**	**2,915.92**	**121.71**	**3,800.40**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
Q0204	2009	69741	Alternate 19D/K OSUT Training Area Roads					2.34	78.81
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**2.34**	**78.81**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.30**	**15.45**
Potentially Suitable Habitat	**64.04**	**2,915.92**
Future Potential Habitat	**119.37**	**3,721.59**
TOTAL	**183.71**	**6,652.96**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
NM = not managed

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-75. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **C01-03**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Potentially Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
C0105	3.13	72	31	9.85	3.00	9.37	6.50	19.28	36.50	13.87	4.72	1.42	6.00	43.00	52.00	6	31	18	3	1	0			3.13	134.59		
C0108	0.10	24	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
C0110	16.29	24	31	201.01	47.00	7.15	4.50	5.41	11.50	9.40	1.31	0.42	2.50	16.00	65.50	6	22	12	3	1	0					16.29	260.64
C0113	0.21	24	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
C0116	32.33	80	26	12.94	3.50	6.38	4.50	21.11	39.50	3.40	0.53	0.75	2.00	44.00	49.50	8	30	4	3	1	0			32.33	1,422.52		
C0117	1.57	24	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
C0123	11.55	80	26	0.00	0.00	2.17	2.00	32.17	59.00	4.79	0.00	0.00	0.00	61.00	61.00	1	34	0	3	1	1	11.55	704.55				
EE0213	12.03	73	31	9.37	3.50	9.06	6.50	13.39	26.50	7.86	7.79	2.80	10.00	33.00	46.50	8	25	32	3	1	0			12.03	396.99		
EE0223	7.42	52	31	9.83	3.75	18.82	15.00	14.17	22.50	20.08	5.70	3.09	7.50	37.50	48.75	1	14	21	3	1	1	7.42	278.25				
EE0225	24.32	94	31	75.01	20.50	21.53	14.50	14.25	22.00	5.24	4.31	1.67	6.00	36.50	63.00	6	25	14	3	1	0			24.32	887.68		
pp981*	5.52	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.52	0.00
pp982*	3.59	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.59	0.00
pp983*	0.50	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.50	0.00
S0303	15.42	62	31	17.93	4.50	8.57	6.50	12.82	20.50	0.00	1.25	0.73	2.00	27.00	33.50	2	31	8	3	1	0					15.42	416.34
	133.98																					**18.97**	**982.80**	**71.81**	**2,841.78**	**41.32**	**676.98**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
C0105	2009	67457	Infrastructure Support - Utilities			0.18	7.74		
C0110	2009	67457	Infrastructure Support - Utilities					0.02	0.32
C0116	2009	67457	Infrastructure Support - Utilities			1.58	69.52		
C0123	2009	67457	Infrastructure Support - Utilities	0.66	40.26				
EE0225	2009	67457	Infrastructure Support - Utilities			0.60	21.90		
			2009 SUB-TOTAL	**0.66**	**40.26**	**2.36**	**99.16**	**0.02**	**0.32**
C0105	2010	65557	Repair Existing Training Area Roads, Phase 1			0.16	6.88		
C0110	2010	65557	Repair Existing Training Area Roads, Phase 1					0.03	0.48
C0116	2010	65557	Repair Existing Training Area Roads, Phase 1			1.11	48.84		
C0123	2010	65557	Repair Existing Training Area Roads, Phase 1	0.49	29.89				
EE0213	2010	65557	Repair Existing Training Area Roads, Phase 1			0.10	3.30		
EE0225	2010	65557	Repair Existing Training Area Roads, Phase 1			0.08	2.92		
S0303	2010	65557	Repair Existing Training Area Roads, Phase					3.42	92.34
			2010 SUB-TOTAL	**0.49**	**29.89**	**1.45**	**61.94**	**3.45**	**92.82**
			TOTAL REMOVALS	**1.15**	**70.15**	**3.81**	**161.10**	**3.47**	**93.14**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**18.31**	**942.54**	**17.82**	**912.65**
Potentially Suitable Habitat	**69.45**	**2,742.62**	**68.00**	**2,680.68**
Future Potential Habitat	**41.30**	**676.66**	**37.85**	**583.84**
TOTAL	**129.06**	**4,361.82**	**123.67**	**4,177.17**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
NM = not managed

* Note: No pine data was collected for pine plantation stand less than 30 years old.

Appendix Table H-76. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **C01-03**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
C0105	3.13	72	31	9.85	3.00	9.37	6.50	19.28	36.50	13.87	4.72	1.42	6.00	43.00	52.00	6	31	18	3	1	4.39	PS			3.13	134.59		
C0108	0.10	24	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
C0110	16.29	24	31	201.01	47.00	7.15	4.50	5.41	11.50	9.40	1.31	0.42	2.50	16.00	65.50	6	22	12	3	1	2.71	NH					16.29	260.64
C0113	0.21	24	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
C0116	32.33	80	26	12.94	3.50	6.38	4.50	21.11	39.50	3.40	0.53	0.75	2.00	44.00	49.50	8	30	4	3	1	4.30	PS			32.33	1,422.52		
C0117	1.57	24	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
C0123	11.55	80	26	0.00	0.00	2.17	2.00	32.17	59.00	4.79	0.00	0.00	0.00	61.00	61.00	1	34	0	3	1	5	CS	11.55	704.55				
EE0213	12.03	73	31	9.37	3.50	9.06	6.50	13.39	26.50	7.86	7.79	2.80	10.00	33.00	46.50	8	25	32	3	1	3.85	PS					12.03	396.99
EE0223	7.42	52	31	9.83	3.75	18.82	15.00	14.17	22.50	20.08	5.70	3.09	7.50	37.50	48.75	1	14	21	3	1	4.08	PS					7.42	278.25
EE0225	24.32	94	31	75.01	20.50	21.53	14.50	14.25	22.00	5.24	4.31	1.67	6.00	36.50	63.00	6	25	14	3	1	4.05	PS					24.32	887.68
pp981*	5.52	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					5.52	0.00
pp982*	3.59	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.59	0.00
pp983*	0.50	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.50	0.00
S0303	15.42	62	31	17.93	4.50	8.57	6.50	12.82	20.50	0.00	1.25	0.73	2.00	27.00	33.50	2	31	8	3	1	4.34	PS					15.42	416.34
	133.98																						**11.55**	**704.55**	**35.46**	**1,557.11**	**85.09**	**2,239.90**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
C0105	2009	67457	Infrastructure Support - Utilities			0.18	7.74		
C0110	2009	67457	Infrastructure Support - Utilities					0.02	0.32
C0116	2009	67457	Infrastructure Support - Utilities			1.58	69.52		
C0123	2009	67457	Infrastructure Support - Utilities	0.66	40.26				
EE0225	2009	67457	Infrastructure Support - Utilities					0.60	21.90
			2009 SUB-TOTAL	**0.66**	**40.26**	**1.76**	**77.26**	**0.62**	**22.22**
C0105	2010	65557	Repair Existing Training Area Roads, Phase 1			0.16	6.88		
C0110	2010	65557	Repair Existing Training Area Roads, Phase 1					0.03	0.48
C0116	2010	65557	Repair Existing Training Area Roads, Phase 1			1.11	48.84		
C0123	2010	65557	Repair Existing Training Area Roads, Phase 1	0.49	29.89				
EE0213	2010	65557	Repair Existing Training Area Roads, Phase 1					0.10	3.30
EE0225	2010	65557	Repair Existing Training Area Roads, Phase 1					0.08	2.92
S0303	2010	65557	Repair Existing Training Area Roads, Phase 1					3.42	92.34
			2010 SUB-TOTAL	**0.49**	**29.89**	**1.27**	**55.72**	**3.63**	**99.04**
			TOTAL REMOVALS	**1.15**	**70.15**	**3.03**	**132.98**	**4.25**	**121.26**

POST-PROJECT	**2010**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**10.89**	**664.29**	**10.40**	**634.40**
Potentially Suitable Habitat	**33.70**	**1,479.85**	**32.43**	**1,424.13**
Future Potential Habitat	**84.47**	**2,217.68**	**80.84**	**2,118.64**
TOTAL	**129.06**	**4,361.82**	**123.67**	**4,177.17**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
NM = not managed

* Note: No pine data was collected for pine plantation stand less than 30 years old.

Appendix Table H-77. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **C01-06 Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
C0105	47.07	72	31	9.85	3.00	9.37	6.50	19.28	36.50	13.87	4.72	1.42	6.00	43.00	52.00	6	31	18	3	1	0			47.07	2,024.01		
C0108	1.72	24	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
C0109	0.20	24	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
C0110	1.11	24	31	201.01	47.00	7.15	4.50	5.41	11.50	9.40	1.31	0.42	2.50	16.00	65.50	6	22	12	3	1	0					1.11	17.76
C0111	1.29	83	31	7.87	2.50	9.84	7.00	23.64	44.50	7.35	0.00	0.87	1.00	51.50	55.00	1	34	3	3	1	1	1.29	66.44				
C0121	25.75	78	31	6.55	2.50	9.10	6.50	21.72	38.00	0.00	0.50	0.71	2.00	44.50	49.00	2	29	4	3	1	1	25.75	1,145.88				
pp983*	9.59	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					9.59	0.00
pp984*	6.64	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					6.64	0.00
S0209	2.04	58	26	8.42	2.50	9.66	7.00	12.33	21.50	10.30	1.50	3.03	6.00	28.50	37.00	6	23	17	3	1	0					2.04	58.14
S0210	28.46	69	31	31.33	8.50	14.70	11.00	16.59	27.00	0.00	2.18	1.67	3.50	38.00	50.00	6	29	11	3	1	0			28.46	1,081.48		
	123.87																					**27.04**	**1,212.32**	**75.53**	**3,105.49**	**19.38**	**75.90**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
C0105	2009	67457	Infrastructure Support - Utilities			2.74	117.82		
S0210	2009	67457	Infrastructure Support - Utilities			0.79	30.02		
			2009 SUB-TOTAL	**0.00**	**0.00**	**3.53**	**147.84**	**0.00**	**0.00**
C0105	2010	65557	Repair Existing Training Area Roads, Phase 1			2.17	93.31		
S0209	2010	65557	Repair Existing Training Area Roads, Phase 1					1.07	30.50
S0210	2010	65557	Repair Existing Training Area Roads, Phase 1			3.74	142.12		
			2010 SUB-TOTAL	**0.00**	**0.00**	**5.91**	**235.43**	**1.07**	**30.50**
			TOTAL REMOVALS	**0.00**	**0.00**	**9.44**	**383.27**	**1.07**	**30.50**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**27.04**	**1,212.32**	**27.04**	**1,212.32**
Potentially Suitable Habitat	**72.00**	**2,957.65**	**66.09**	**2,722.22**
Future Potential Habitat	**19.38**	**75.90**	**18.31**	**45.40**
TOTAL	**118.42**	**4,245.87**	**111.44**	**3,979.94**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
NM = not managed

* Note: No pine data was collected for pine plantation stand less than 30 years old.

Appendix Table H-78. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **C01-06**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
C0105	47.07	72	31	9.85	3.00	9.37	6.50	19.28	36.50	13.87	4.72	1.42	6.00	43.00	52.00	6	31	18	3	1	4.39	PS			47.07	2,024.01		
C0108	1.72	24	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
C0109	0.20	24	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
C0110	1.11	24	31	201.01	47.00	7.15	4.50	5.41	11.50	9.40	1.31	0.42	2.50	16.00	65.50	6	22	12	3	1	2.71	NH					1.11	17.76
C0111	1.29	83	31	7.87	2.50	9.84	7.00	23.64	44.50	7.35	0.00	0.87	1.00	51.50	55.00	1	34	3	3	1	4.75	CS	1.29	66.44				
C0121	25.75	78	31	6.55	2.50	9.10	6.50	21.72	38.00	0.00	0.50	0.71	2.00	44.50	49.00	2	29	4	3	1	4.65	CS	25.75	1,145.88				
pp983*	9.59	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					9.59	0.00
pp984*	6.64	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					6.64	0.00
S0209	2.04	58	26	8.42	2.50	9.66	7.00	12.33	21.50	10.30	1.50	3.03	6.00	28.50	37.00	6	23	17	3	1	3.75	PS					2.04	58.14
S0210	28.46	69	31	31.33	8.50	14.70	11.00	16.59	27.00	0.00	2.18	1.67	3.50	38.00	50.00	6	29	11	3	1	4.13	PS					28.46	1,081.48
	123.87																						**27.04**	**1,212.32**	**47.07**	**2,024.01**	**47.84**	**1,157.38**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
C0105	2009	67457	Infrastructure Support - Utilities			2.74	117.82		
S0210	2009	67457	Infrastructure Support - Utilities					0.79	30.02
			2009 SUB-TOTAL	**0.00**	**0.00**	**2.74**	**117.82**	**0.79**	**30.02**
C0105	2010	65557	Repair Existing Training Area Roads, Phase 1			2.17	93.31		
S0209	2010	65557	Repair Existing Training Area Roads, Phase 1					1.07	30.50
S0210	2010	65557	Repair Existing Training Area Roads, Phase 1					3.74	142.12
			2010 SUB-TOTAL	**0.00**	**0.00**	**2.17**	**93.31**	**4.81**	**172.62**
			TOTAL REMOVALS	**0.00**	**0.00**	**4.91**	**211.13**	**5.60**	**202.64**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**27.04**	**1,212.32**	**27.04**	**1,212.32**
Potentially Suitable Habitat	**44.33**	**1,906.19**	**42.16**	**1,812.88**
Future Potential Habitat	**47.05**	**1,127.36**	**42.24**	**954.74**
TOTAL	**118.42**	**4,245.87**	**111.44**	**3,979.94**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
NM = not managed

* Note: No pine data was collected for pine plantation stand less than 30 years old.

Appendix Table H-79. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **C02-02 Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
C0120	0.39	95	25	29.38	9.50	14.79	10.00	23.19	40.00	29.60	11.46	5.52	15.50	50.00	75.00	7	11	31	3	1	1			0.00	0.00		
C0217	2.95	54	31	55.80	18.00	27.80	18.50	5.97	8.50	37.99	9.01	1.13	7.50	27.00	52.50	1	21	23	3	2	0					2.95	79.65
C0218	7.99	22	31P	143.72	45.00	36.06	21.00	1.88	2.00	0.00	0.00	0.00	0.00	23.00	68.00	2	38	0	3	2	0					7.99	183.77
C0225	108.48	89	31	25.70	7.37	26.64	19.47	16.56	22.11	22.92	0.96	0.20	1.05	41.58	50.00	6	36	3	3	2	0			108.48	4,510.60		
C0230	0.11	69	25	42.44	11.05	29.29	21.05	11.71	16.84	18.74	2.22	1.02	3.16	37.89	52.11	5	35	7	3	2	0			0.11	4.17		
C0237	37.16	87	31	71.84	19.00	21.70	15.00	11.68	18.50	15.35	3.54	1.63	4.50	33.50	57.00	6	33	13	3	2	0			37.16	1,244.86		
C0237	0.56	87	31U	71.84	19.00	21.70	15.00	11.68	18.50	15.35	3.54	1.63	4.50	33.50	57.00	6	33	13	3	2	0			0.56	18.76		
C0238	9.17	87	31U	15.56	3.75	3.35	2.50	22.48	37.50	0.00	0.00	0.00	0.00	40.00	43.75	2	50	0	3	2	1	9.17	366.80				
C0239	5.19	87	32U	12.22	4.00	2.20	2.00	5.64	8.00	0.00	6.79	0.00	4.00	10.00	18.00	2	40	46	3	2	0					5.19	51.90
C0240	18.37	87	31	91.27	25.00	26.71	18.50	8.42	10.50	7.46	0.00	0.00	0.00	29.00	54.00	6	32	0	3	2	0					18.37	532.73
C0240	0.15	87	31U	91.27	25.00	26.71	18.50	8.42	10.50	7.46	0.00	0.00	0.00	29.00	54.00	6	32	0	3	2	0					0.15	4.35
C0245	12.06	87	31	70.10	18.50	42.49	29.50	9.87	14.50	12.32	2.69	0.48	2.50	44.00	65.00	1	26	6	3	2	1	12.06	530.64				
EE0225	2.88	94	31	75.01	20.50	21.53	14.50	14.25	22.00	5.24	4.31	1.67	6.00	36.50	63.00	6	25	14	3	1	0			2.88	105.12		
pp194*	2.55	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.55	0.00
pp195*	2.26	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.26	0.00
pp196*	0.18	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.18	0.00
pp199*	11.05	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					11.05	0.00
pp33*	10.19	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					10.19	0.00
pp739*	1.81	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.81	0.00
Q0204	0.36	57	31	59.33	17.37	26.80	18.42	9.92	15.26	30.67	2.70	0.00	1.58	33.68	52.63	6	32	7	3	1	0			0.36	12.12		
Q0205	8.49	102	31	22.10	5.00	6.93	5.00	12.92	27.50	11.22	10.11	6.91	18.75	32.50	56.25	8	18	46	3	1	0			8.49	275.93		
Q0208	10.46	56	31	17.58	5.00	22.22	16.50	15.90	21.00	7.81	2.19	1.31	3.00	37.50	45.50	2	35	8	3	1	1	10.46	392.25				
Q0215	6.58	20	10	132.54	29.00	1.34	1.00	0.65	1.00	21.70	3.48	0.91	3.00	2.00	34.00	5	14	69	3	1	0					6.58	13.16
Q0217	22.56	54	31	17.06	4.50	20.83	15.50	14.73	19.50	9.90	2.08	0.00	1.50	35.00	41.00	2	33	6	3	1	1	22.56	789.60				
Q0218	7.25	20	25	58.68	17.14	14.71	10.00	0.90	1.43	30.20	6.38	1.16	5.71	11.43	34.29	4	17	33	3	1	0					7.25	82.87
Q0219	4.20	62	31	103.84	30.00	13.27	10.00	2.44	2.50	6.82	3.08	0.00	2.50	12.50	45.00	6	15	16	3	1	0					4.20	52.50
	293.40																					**54.25**	**2,079.29**	**158.04**	**6,171.56**	**80.72**	**1,000.93**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
pp33*	2009	69741	Alternate 19D/K OSUT Training Area					6.93	0.00
Q0208	2009	69741	Alternate 19D/K OSUT Training Area	4.67	175.13				
Q0215	2009	69741	Alternate 19D/K OSUT Training Area					2.38	4.76
Q0217	2009	69741	Alternate 19D/K OSUT Training Area	11.89	416.15				
Q0218	2009	69741	Alternate 19D/K OSUT Training Area					1.95	22.29
			TOTAL REMOVALS	**16.56**	**591.28**	**0.00**	**0.00**	**11.26**	**27.05**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**37.69**	**1,488.01**
Potentially Suitable Habitat	**158.04**	**6,171.56**
Future Potential Habitat	**69.46**	**973.88**
TOTAL	**265.19**	**8,633.45**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21P = Longleaf Pine Plantation
25 = Mixed Pine
31 - Loblolly Pine
31P = Loblolly Pine Plantation
31U = Loblolly Pine Underplanted
32U = Shortleaf Pine Underplanted

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-80. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **C02-02**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
C0120	0.39	95	25	29.38	9.50	14.79	10.00	23.19	40.00	29.60	11.46	5.52	15.50	50.00	75.00	7	11	31	3	1	3.93	PS			0.00	0.00		
C0217	2.95	54	31	55.80	18.00	27.80	18.50	5.97	8.50	37.99	9.01	1.13	7.50	27.00	52.50	1	21	23	3	2	3.39	PS					2.95	79.65
C0218	7.99	22	31P	143.72	45.00	36.06	21.00	1.88	2.00	0.00	0.00	0.00	0.00	23.00	68.00	2	38	0	3	2	2.87	NH					7.99	183.77
C0225	108.48	89	31	25.70	7.37	26.64	19.47	16.56	22.11	22.92	0.96	0.20	1.05	41.58	50.00	6	36	3	3	2	4.51	PS					108.48	4,510.60
C0230	0.11	69	25	42.44	11.05	29.29	21.05	11.71	16.84	18.74	2.22	1.02	3.16	37.89	52.11	5	35	7	3	2	4.10	PS					0.11	4.17
C0237	37.16	87	31	71.84	19.00	21.70	15.00	11.68	18.50	15.35	3.54	1.63	4.50	33.50	57.00	6	33	13	3	2	4.01	PS					37.16	1,244.86
C0237	0.56	87	31U	71.84	19.00	21.70	15.00	11.68	18.50	15.35	3.54	1.63	4.50	33.50	57.00	6	33	13	3	2	4.01	PS					0.56	18.76
C0238	9.17	87	31U	15.56	3.75	3.35	2.50	22.48	37.50	0.00	0.00	0.00	0.00	40.00	43.75	2	50	0	3	2	5.00	CS	9.17	366.80				
C0239	5.19	87	32U	12.22	4.00	2.20	2.00	5.64	8.00	0.00	6.79	0.00	4.00	10.00	18.00	2	40	46	3	2	3.67	PS					5.19	51.90
C0240	18.37	87	31	91.27	25.00	26.71	18.50	8.42	10.50	7.46	0.00	0.00	0.00	29.00	54.00	6	32	0	3	2	3.71	PS					18.37	532.73
C0240	0.15	87	31U	91.27	25.00	26.71	18.50	8.42	10.50	7.46	0.00	0.00	0.00	29.00	54.00	6	32	0	3	2	3.71	PS					0.15	4.35
C0245	12.06	87	31	70.10	18.50	42.49	29.50	9.87	14.50	12.32	2.69	0.48	2.50	44.00	65.00	1	26	6	3	2	4.11	PS					12.06	530.64
EE0225	2.88	94	31	75.01	20.50	21.53	14.50	14.25	22.00	5.24	4.31	1.67	6.00	36.50	63.00	6	25	14	3	1	4.05	PS					2.88	105.12
pp194*	2.55	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.55	0.00
pp195*	2.26	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.26	0.00
pp196*	0.18	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.18	0.00
pp199*	11.05	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					11.05	0.00
pp33*	10.19	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					10.19	0.00
pp739*	1.81	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.81	0.00
Q0204	0.36	57	31	59.33	17.37	26.80	18.42	9.92	15.26	30.67	2.70	0.00	1.58	33.68	52.63	6	32	7	3	1	3.78	PS					0.36	12.12
Q0205	8.49	102	31	22.10	5.00	6.93	5.00	12.92	27.50	11.22	10.11	6.91	18.75	32.50	56.25	8	18	46	3	1	3.23	PS					8.49	275.93
Q0208	10.46	56	31	17.58	5.00	22.22	16.50	15.90	21.00	7.81	2.19	1.31	3.00	37.50	45.50	2	35	8	3	1	4.41	PS					10.46	392.25
Q0215	6.58	20	10	132.54	29.00	1.34	1.00	0.65	1.00	21.70	3.48	0.91	3.00	2.00	34.00	5	14	69	3	1	2.01	NH					6.58	13.16
Q0217	22.56	54	31	17.06	4.50	20.83	15.50	14.73	19.50	9.90	2.08	0.00	1.50	35.00	41.00	2	33	6	3	1	4.27	PS					22.56	789.60
Q0218	7.25	20	25	58.68	17.14	14.71	10.00	0.90	1.43	30.20	6.38	1.16	5.71	11.43	34.29	4	17	33	3	1	2.15	NH					7.25	82.87
Q0219	4.20	62	31	103.84	30.00	13.27	10.00	2.44	2.50	6.82	3.08	0.00	2.50	12.50	45.00	6	15	16	3	1	2.67	PS					4.20	52.50
	293.40																						**9.17**	**366.80**	**0.00**	**0.00**	**283.84**	**8,884.98**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
pp33*	2009	69741	Alternate 19D/K OSUT Training Area					6.93	0.00
Q0208	2009	69741	Alternate 19D/K OSUT Training Area					4.67	175.13
Q0215	2009	69741	Alternate 19D/K OSUT Training Area					2.38	4.76
Q0217	2009	69741	Alternate 19D/K OSUT Training Area					11.89	416.15
Q0218	2009	69741	Alternate 19D/K OSUT Training Area					1.95	22.29
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**27.82**	**618.33**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**9.17**	**366.80**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**256.02**	**8,266.65**
TOTAL	**265.19**	**8,633.45**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21P = Longleaf Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine
31P = Loblolly Pine Plantation
31U = Loblolly Pine Underplanted
32U = Shortleaf Pine Underplanted

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-81. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D05-02R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D0508	3.45	53	11	8.32	2.00	4.24	3.00	9.81	18.50	78.03	19.09	6.75	23.50	21.50	47.00	7	7	65	3	1	0					3.45	74.18
D0509	1.56	65	21	4.28	1.00	8.44	6.00	16.67	27.50	28.86	6.64	3.62	10.00	33.50	44.50	1	31	29	3	1	1	1.56	52.26				
D0510	19.04	45	31	16.97	4.00	16.52	12.50	17.68	28.00	6.41	1.11	3.20	7.50	40.50	52.00	1	34	11	3	1	1	19.04	771.12				
D0512	82.87	60	21	2.50	1.00	10.73	8.00	17.09	28.00	1.24	0.55	1.16	2.50	36.00	39.50	1	36	6	3	1	1	82.87	2,983.32				
D0513	22.08	59	25	18.35	4.50	33.22	24.00	19.71	27.50	2.28	3.53	0.91	4.00	51.50	60.00	1	35	8	3	1	1	22.08	1,137.12				
D0514	35.42	52	21	11.97	2.50	1.31	1.00	12.15	21.00	2.46	1.50	0.84	3.00	22.00	27.50	2	33	15	3	1	0					35.42	779.24
D0604	4.73	84	13	16.37	4.00	4.40	3.50	18.90	42.00	44.26	9.61	3.65	12.00	45.50	61.50	6	4	36	3	1	0			0.00	0.00		
pp226*	0.05	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
	169.20																					**125.55**	**4,943.82**	**0.00**	**0.00**	**38.87**	**853.42**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D0510	2009	69743	Southern Training Area Infrastructure-Maneuver Area	14.26	577.53				
D0512	2009	69743	Southern Training Area Infrastructure-Maneuver Area	6.00	216.00				
D0513	2009	69743	Southern Training Area Infrastructure-Maneuver Area	14.24	733.36				
D0514	2009	69743	Southern Training Area Infrastructure-Maneuver Area					26.88	591.36
			TOTAL REMOVALS	**34.50**	**1,526.89**	**0.00**	**0.00**	**26.88**	**591.36**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**91.05**	**3,416.93**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**11.99**	**262.06**
TOTAL	**103.04**	**3,678.99**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
11 = Longleaf Pine-Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-82. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D05-02R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D0508	3.45	53	11	8.32	2.00	4.24	3.00	9.81	18.50	78.03	19.09	6.75	23.50	21.50	47.00	7	7	65	3	1	3.12	PS					3.45	74.18
D0509	1.56	65	21	4.28	1.00	8.44	6.00	16.67	27.50	28.86	6.64	3.62	10.00	33.50	44.50	1	31	29	3	1	4.36	PS					1.56	52.26
D0510	19.04	45	31	16.97	4.00	16.52	12.50	17.68	28.00	6.41	1.11	3.20	7.50	40.50	52.00	1	34	11	3	1	4.25	PS					19.04	771.12
D0512	82.87	60	21	2.50	1.00	10.73	8.00	17.09	28.00	1.24	0.55	1.16	2.50	36.00	39.50	1	36	6	3	1	4.54	PS					82.87	2,983.32
D0513	22.08	59	25	18.35	4.50	33.22	24.00	19.71	27.50	2.28	3.53	0.91	4.00	51.50	60.00	1	35	8	3	1	4.61	PS					22.08	1,137.12
D0514	35.42	52	21	11.97	2.50	1.31	1.00	12.15	21.00	2.46	1.50	0.84	3.00	22.00	27.50	2	33	15	3	1	4.09	PS					35.42	779.24
D0604	4.73	84	13	16.37	4.00	4.40	3.50	18.90	42.00	44.26	9.61	3.65	12.00	45.50	61.50	6	4	36	3	1	3.96	CS			0.00	0.00		
pp226*	0.05	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
	169.20																						**0.00**	**0.00**	**0.00**	**0.00**	**164.42**	**5,797.24**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D0510	2009	69743	Southern Training Area Infrastructure-Maneuver Area					14.26	577.53
D0512	2009	69743	Southern Training Area Infrastructure-Maneuver Area					6.00	216.00
D0513	2009	69743	Southern Training Area Infrastructure-Maneuver Area					14.24	733.36
D0514	2009	69743	Southern Training Area Infrastructure-Maneuver Area					26.88	591.36
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**61.38**	**2,118.25**

POST-PROJECT

	2009 Acres	2009 BA
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**103.04**	**3,678.99**
TOTAL	**103.04**	**3,678.99**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
11 = Longleaf Pine-Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-83. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D05-04R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D0410	10.46	49	31	18.68	7.50	40.08	29.50	14.40	20.50	0.00	0.92	0.00	0.50	50.00	58.00	1	30	2	3	2	1	10.46	523.00				
D0411	5.31	41	21	43.28	12.94	12.42	9.41	7.50	10.59	3.00	0.00	0.00	0.00	20.00	32.94	1	24	0	3	2	0					5.31	106.20
D0412	20.42	47	13	7.79	2.50	12.13	9.50	14.44	21.50	0.00	1.33	4.11	9.50	31.00	43.00	2	39	17	3	2	1	20.42	633.02				
D0413	47.97	76	31	11.37	3.50	20.39	15.50	15.70	24.00	1.11	0.00	0.69	2.00	39.50	45.00	1	21	2	3	2	1	47.97	1,894.82				
D0414	7.30	NM	53**	6.16	1.50	0.52	0.50	2.71	5.00	13.18	6.92	6.90	17.00	5.50	24.00	2	17	81	3	2	0					0.00	0.00
D0415	49.02	50	31	15.43	4.50	19.88	14.50	19.02	27.50	0.00	0.58	0.67	1.50	42.00	48.00	1	41	3	3	2	1	49.02	2,058.84				
D0509	13.99	65	21	4.28	1.00	8.44	6.00	16.67	27.50	28.86	6.64	3.62	10.00	33.50	44.50	1	31	29	3	1	1	13.99	468.67				
D0510	65.71	45	31	16.97	4.00	16.52	12.50	17.68	28.00	6.41	1.11	3.20	7.50	40.50	52.00	1	34	11	3	1	1	65.71	2,661.26				
F0201	6.52	45	25	3.18	1.11	23.01	17.78	23.30	32.22	0.00	0.00	0.00	0.00	50.00	51.11	1	12	0	3	1	1	6.52	326.00				
F0202	3.17	53	22P	9.59	2.00	22.76	18.00	13.51	18.00	0.00	0.53	0.00	0.50	36.00	38.50	1	25	1	3	1	1	3.17	114.12				
F0203	0.78	53	10	5.81	2.00	6.52	4.50	9.23	14.50	8.64	3.28	3.75	9.00	19.00	30.00	1	24	31	3	1	0					0.78	14.82
K2102	0.14	63	21	24.21	5.79	18.01	13.16	17.01	25.79	13.37	6.43	2.47	7.89	38.95	52.63	1	12	20	3	1	1	0.14	5.45				
K2104	6.88	52	31	21.32	6.00	18.25	14.00	19.08	27.00	0.00	0.00	0.00	0.00	41.00	47.00	2	45	0	3	1	1	6.88	282.08				
K2106	0.08	58	21	7.08	1.67	18.46	14.44	16.16	25.56	5.48	0.00	0.73	1.11	40.00	42.78	2	36	2	3	1	1	0.08	3.20				
K2219	16.23	65	21	22.33	5.88	11.11	8.24	9.77	15.29	4.95	0.94	0.55	1.76	23.53	31.18	1	15	7	3	1	0					16.23	381.89
K2220	19.51	51	31	19.33	6.00	14.89	11.00	20.80	30.50	3.09	0.00	0.24	0.50	41.50	48.00	1	34	1	3	1	1	19.51	809.67				
pp966*	11.78	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					11.78	0.00
pp967*	3.97	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.97	0.00
pp968*	5.33	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.33	0.00
pp969*	3.45	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.45	0.00
	298.02																					**243.87**	**9,780.13**	**0.00**	**0.00**	**46.85**	**502.91**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D0413	2009	69743	Southern Training Area Infrastructure-Maneuver Area	9.41	371.70				
D0415	2009	69743	Southern Training Area Infrastructure-Upgrade Paved Road and Tank Trails	2.47	103.74				
D0415	2009	69743	Southern Training Area Infrastructure-Maneuver Area	40.06	1,682.52				
D0510	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	1.23	49.82				
D0510	2009	69743	Southern Training Area Infrastructure-Maneuver Area	36.93	1,495.67				
F0201	2009	69743	Southern Training Area Infrastructure-Upgrade Paved Road and Tank Trails	3.66	183.00				
F0201	2009	69743	Southern Training Area Infrastructure-Maneuver Area	2.87	143.50				
F0202	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	1.00	36.00				
F0202	2009	69743	Southern Training Area Infrastructure-Maneuver Area	2.18	78.48				
F0203	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.68	12.92
F0203	2009	69743	Southern Training Area Infrastructure-Maneuver Are					0.09	1.71
K2102	2009	69743	Southern Training Area Infrastructure-Maneuver Area	0.14	5.45				
K2104	2009	69743	Southern Training Area Infrastructure-Maneuver Area	5.78	236.98				
K2219	2009	69743	Southern Training Area Infrastructure-Maneuver Area					12.86	302.60
K2220	2009	69743	Southern Training Area Infrastructure-Maneuver Area	5.03	208.75				
pp967*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					3.97	0.00
pp968*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					5.33	0.00
pp969*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.55	0.00
pp969*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.90	0.00
			2009 SUB-TOTAL	**110.76**	**4,595.61**	**0.00**	**0.00**	**26.38**	**317.23**
D0412	2010	65557	Repair Existing Training Area Roads	1.37	42.47				
D0413	2010	65557	Repair Existing Training Area Roads	2.15	84.93				
D0415	2010	65557	Repair Existing Training Area Roads	3.53	148.26				
K2104	2010	65557	Repair Existing Training Area Roads	1.10	45.10				
K2106	2010	65557	Repair Existing Training Area Roads	0.08	3.20				
K2219	2010	65557	Repair Existing Training Area Roads					2.53	59.53
K2220	2010	65557	Repair Existing Training Area Roads	2.73	113.30				
			2010 SUB-TOTAL	**10.96**	**437.26**	**0.00**	**0.00**	**2.53**	**59.53**
			TOTAL REMOVALS	**121.72**	**5,032.87**	**0.00**	**0.00**	**28.91**	**376.76**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
22P = Slash Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine
53** = White Oak-Red Oak-Hickory (managed for hardwoods)
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**133.11**	**5,184.52**	**122.15**	**4,747.26**

Appendix Table H-84. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D05-04R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D0410	10.46	49	31	18.68	7.50	40.08	29.50	14.40	20.50	0.00	0.92	0.00	0.50	50.00	58.00	1	30	2	3	2	4.15	PS					10.46	523.00
D0411	5.31	41	21	43.28	12.94	12.42	9.41	7.50	10.59	3.00	0.00	0.00	0.00	20.00	32.94	1	24	0	3	2	3.24	PS					5.31	106.20
D0412	20.42	47	13	7.79	2.50	12.13	9.50	14.44	21.50	0.00	1.33	4.11	9.50	31.00	43.00	2	39	17	3	2	4.05	PS					20.42	633.02
D0413	47.97	76	31	11.37	3.50	20.39	15.50	15.70	24.00	1.11	0.00	0.69	2.00	39.50	45.00	1	21	2	3	2	4.28	PS					47.97	1,894.82
D0414	7.30	NM	53**	6.16	1.50	0.52	0.50	2.71	5.00	13.18	6.92	6.90	17.00	5.50	24.00	2	17	81	3	2	2.60	NH					0.00	0.00
D0415	49.02	50	31	15.43	4.50	19.88	14.50	19.02	27.50	0.00	0.58	0.67	1.50	42.00	48.00	1	41	3	3	2	4.41	PS					49.02	2,058.84
D0509	13.99	65	21	4.28	1.00	8.44	6.00	16.67	27.50	28.86	6.64	3.62	10.00	33.50	44.50	1	31	29	3	1	4.23	PS					13.99	468.67
D0510	65.71	45	31	16.97	4.00	16.52	12.50	17.68	28.00	6.41	1.11	3.20	7.50	40.50	52.00	1	34	11	3	1	4.00	PS					65.71	2,661.26
F0201	6.52	45	25	3.18	1.11	23.01	17.78	23.30	32.22	0.00	0.00	0.00	0.00	50.00	51.11	1	12	0	3	1	3.95	PS					6.52	326.00
F0202	3.17	53	22P	9.59	2.00	22.76	18.00	13.51	18.00	0.00	0.53	0.00	0.50	36.00	38.50	1	25	1	3	1	3.85	PS					3.17	114.12
F0203	0.78	53	10	5.81	2.00	6.52	4.50	9.23	14.50	8.64	3.28	3.75	9.00	19.00	30.00	1	24	31	3	1	3.41	PS					0.78	14.82
K2102	0.14	63	21	24.21	5.79	18.01	13.16	17.01	25.79	13.37	6.43	2.47	7.89	38.95	52.63	1	12	20	3	1	4.01	PS					0.14	5.45
K2104	6.88	52	31	21.32	6.00	18.25	14.00	19.08	27.00	0.00	0.00	0.00	0.00	41.00	47.00	2	45	0	3	1	4.38	PS					6.88	282.08
K2106	0.08	58	21	7.08	1.67	18.46	14.44	16.16	25.56	5.48	0.00	0.73	1.11	40.00	42.78	2	36	2	3	1	4.14	PS					0.08	3.20
K2219	16.23	65	21	22.33	5.88	11.11	8.24	9.77	15.29	4.95	0.94	0.55	1.76	23.53	31.18	1	15	7	3	1	3.62	PS					16.23	381.89
K2220	19.51	51	31	19.33	6.00	14.89	11.00	20.80	30.50	3.09	0.00	0.24	0.50	41.50	48.00	1	34	1	3	1	4.29	PS					19.51	809.67
pp966*	11.78	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	NH					11.78	0.00
pp967*	3.97	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	NH					3.97	0.00
pp968*	5.33	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	NH					5.33	0.00
pp969*	3.45	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	NH					3.45	0.00
	298.02																						**0.00**	**0.00**	**0.00**	**0.00**	**290.72**	**10,283.04**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D0413	2009	69743	Southern Training Area Infrastructure-Maneuver Area					9.41	371.70
D0415	2009	69743	Southern Training Area Infrastructure-Upgrade Paved Road and Tank Trails					2.47	103.74
D0415	2009	69743	Southern Training Area Infrastructure-Maneuver Area					40.06	1,682.52
D0510	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.23	49.82
D0510	2009	69743	Southern Training Area Infrastructure-Maneuver Area					36.93	1,495.67
F0201	2009	69743	Southern Training Area Infrastructure-Upgrade Paved Road and Tank Trails					3.66	183.00
F0201	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.87	143.50
F0202	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.00	36.00
F0202	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.18	78.48
F0203	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.68	12.92
F0203	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.09	1.71
K2102	2009	69743	Southern Training Area Infrastructure-Maneuver Are					0.14	5.45
K2104	2009	69743	Southern Training Area Infrastructure-Maneuver Area					5.78	236.98
K2219	2009	69743	Southern Training Area Infrastructure-Maneuver Area					12.86	302.60
K2220	2009	69743	Southern Training Area Infrastructure-Maneuver Area					5.03	208.75
pp967*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					3.97	0.00
pp968*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					5.33	0.00
pp969*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.55	0.00
pp969*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.90	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**137.14**	**4,912.84**
D0412	2010	65557	Repair Existing Training Area Roads					1.37	42.47
D0413	2010	65557	Repair Existing Training Area Roads					2.15	84.93
D0415	2010	65557	Repair Existing Training Area Roads					3.53	148.26
K2104	2010	65557	Repair Existing Training Area Roads					1.10	45.10
K2106	2010	65557	Repair Existing Training Area Roads					0.08	3.20
K2219	2010	65557	Repair Existing Training Area Roads					2.53	59.53
K2220	2010	65557	Repair Existing Training Area Roads					2.73	113.30
			2010 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**13.49**	**496.79**
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**150.63**	**5,409.63**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
22P = Slash Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine
53* = White Oak-Red Oak-Hickory (managed for hardwoods)
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**153.58**	**5,370.20**	**140.09**	**4,873.41**
TOTAL	**153.58**	**5,370.20**	**140.09**	**4,873.41**

Appendix Table H-85. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D06-01R** , **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D0602	2.21	84	31	201.28	55.00	21.90	15.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	70.00	6	0	0	3	1	0					0.00	0.00
D0604	12.08	84	13	16.37	4.00	4.40	3.50	18.90	42.00	44.26	9.61	3.65	12.00	45.50	61.50	6	4	36	3	1	0			0.00	0.00		
D0606	33.61	64	25U	7.12	1.50	3.15	2.50	15.63	29.00	10.82	3.85	3.52	8.50	31.50	41.50	1	2	28	3	1	1	33.61	1,058.72				
D0608	4.47	66	31P	442.56	110.00	4.97	2.50	0.00	0.00	17.24	0.00	0.00	0.00	2.50	112.50	1	0	0	3	1	0					4.47	11.18
D0611	8.88	12	31P	296.20	72.50	4.24	2.50	0.00	0.00	0.00	0.00	1.43	2.50	2.50	77.50	1	1	25	3	1	0					8.88	22.20
D0614	7.57	94	25	25.39	6.00	5.33	4.00	14.99	25.00	6.55	5.59	1.49	6.50	29.00	41.50	2	40	26	3	1	0					7.57	219.53
D0616	13.21	76	31	13.25	4.00	9.77	7.00	10.54	15.50	14.33	1.71	1.61	4.00	22.50	30.50	2	38	14	3	1	0					13.21	297.23
D1621	22.22	51	31	11.62	4.00	19.00	13.50	12.50	17.00	15.39	5.32	1.06	5.50	30.50	40.00	1	32	17	3	1	1	22.22	677.71				
D1628	7.29	43	21	41.37	12.50	18.19	13.50	11.76	16.50	7.55	5.41	1.48	5.50	30.00	48.00	1	29	19	3	1	1	7.29	218.70				
D1629	10.71	64	31	25.57	7.00	7.44	5.00	13.76	22.00	6.92	2.23	2.37	6.00	27.00	40.00	2	32	18	3	1	0					10.71	289.17
D1630	27.73	74	26U	14.62	3.50	0.64	0.50	12.96	23.00	6.41	0.88	4.58	8.00	23.50	35.00	1	5	29	3	1	0					27.73	651.66
pp225*	5.62	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.62	0.00
pp226*	1.06	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.06	0.00
pp234*	1.73	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.73	0.00
pp408*	0.35	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.35	0.00
pp410*	9.99	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					9.99	0.00
pp804*	0.38	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.38	0.00
pp921*	0.57	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.57	0.00
	169.68																					**63.12**	**1,955.13**	**0.00**	**0.00**	**92.27**	**1,490.97**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D0606	2009	69743	Southern Training Area Infrastructure-Maneuver Area	0.03	0.95				
D0608	2009	69743	Southern Training Area Infrastructure-Maneuver Area					4.47	11.18
D0611	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.09	0.23
D0614	2009	69743	Southern Training Area Infrastructure-Maneuver Area					5.01	145.29
D0614	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.55	44.95
D0616	2009	69743	Southern Training Area Infrastructure-Maneuver Area					8.08	181.80
D0616	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.38	31.05
D1630	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.56	60.16
D1630	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.75	17.63
pp225*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.54	0.00
pp225*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.78	0.00
pp226*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.85	0.00
pp408*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.25	0.00
pp410*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					3.79	0.00
pp410*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					5.91	0.00
pp804*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.38	0.00
			TOTAL REMOVALS	**0.03**	**0.95**	**0.00**	**0.00**	**39.39**	**492.29**

POST-PROJECT	**2009**		**non-contiguous habitat**		**2009 TOTAL**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**63.09**	**1,954.18**	**0.00**	**0.00**	**63.09**	**1,954.18**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**52.88**	**998.68**	**13.94**	**135.64**	**38.94**	**863.04**
TOTAL	**115.97**	**2,952.86**	**13.94**	**135.64**	**102.03**	**2,817.22**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
25U = Mixed Pine Underplanted
26U = Mixed Pine-Longleaf Underplanted
31 = Loblolly Pine
31P = Loblolly Pine Plantation

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Stands D0611, D0614, D0616, pp408 and pp410 are non-contiguous as a result of project impacts and can no longer be counted towards the available foraging habitat for the partition.

Appendix Table H-86. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D06-01R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D0602	2.21	84	31	201.28	55.00	21.90	15.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	70.00	6	0	0	3	1	2.70	PS					0.00	0.00
D0604	12.08	84	13	16.37	4.00	4.40	3.50	18.90	42.00	44.26	9.61	3.65	12.00	45.50	61.50	6	4	36	3	1	3.96	PS			0.00	0.00		
D0606	33.61	64	25U	7.12	1.50	3.15	2.50	15.63	29.00	10.82	3.85	3.52	8.50	31.50	41.50	1	2	28	3	1	4.00	PS					33.61	1,058.72
D0608	4.47	66	31P	442.56	110.00	4.97	2.50	0.00	0.00	17.24	0.00	0.00	0.00	2.50	112.50	1	0	0	3	1	2.92	PS					4.47	11.18
D0611	8.88	12	31P	296.20	72.50	4.24	2.50	0.00	0.00	0.00	0.00	1.43	2.50	2.50	77.50	1	1	25	3	1	2.18	NH					8.88	22.20
D0614	7.57	94	25	25.39	6.00	5.33	4.00	14.99	25.00	6.55	5.59	1.49	6.50	29.00	41.50	2	40	26	3	1	4.29	PS					7.57	219.53
D0616	13.21	76	31	13.25	4.00	9.77	7.00	10.54	15.50	14.33	1.71	1.61	4.00	22.50	30.50	2	38	14	3	1	4.09	PS					13.21	297.23
D1621	22.22	51	31	11.62	4.00	19.00	13.50	12.50	17.00	15.39	5.32	1.06	5.50	30.50	40.00	1	32	17	3	1	3.94	PS					22.22	677.71
D1628	7.29	43	21	41.37	12.50	18.19	13.50	11.76	16.50	7.55	5.41	1.48	5.50	30.00	48.00	1	29	19	3	1	3.62	PS					7.29	218.70
D1629	10.71	64	31	25.57	7.00	7.44	5.00	13.76	22.00	6.92	2.23	2.37	6.00	27.00	40.00	2	32	18	3	1	4.35	PS					10.71	289.17
D1630	27.73	74	26U	14.62	3.50	0.64	0.50	12.96	23.00	6.41	0.88	4.58	8.00	23.50	35.00	1	5	29	3	1	3.49	PS					27.73	651.66
pp225*	5.62	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					5.62	0.00
pp226*	1.06	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.06	0.00
pp234*	1.73	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.73	0.00
pp408*	0.35	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.35	0.00
pp410*	9.99	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					9.99	0.00
pp804*	0.38	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.38	0.00
pp921*	0.57	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.57	0.00
	169.68																						**0.00**	**0.00**	**0.00**	**0.00**	**155.39**	**3,446.10**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D0606	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.03	0.95
D0608	2009	69743	Southern Training Area Infrastructure-Maneuver Area					4.47	11.18
D0611	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.09	0.23
D0614	2009	69743	Southern Training Area Infrastructure-Maneuver Area					5.01	145.29
D0614	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.55	44.95
D0616	2009	69743	Southern Training Area Infrastructure-Maneuver Area					8.08	181.80
D0616	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.38	31.05
D1630	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.56	60.16
D1630	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.75	17.63
pp225*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.54	0.00
pp225*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.78	0.00
pp226*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.85	0.00
pp408*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.25	0.00
pp410*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					3.79	0.00
pp410*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					5.91	0.00
pp804*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.38	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**39.42**	**493.24**

POST-PROJECT	**2009**		**non-contiguous habitat**		**2009 TOTAL**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**115.97**	**2,952.86**	**13.94**	**135.64**	**102.03**	**2,817.22**
TOTAL	**115.97**	**2,952.86**	**13.94**	**135.64**	**102.03**	**2,817.22**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
25U = Mixed Pine Underplanted
26U = Mixed Pine-Longleaf Underplanted
31 = Loblolly Pine
31P = Loblolly Pine Plantation

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Stands D0611, D0614, D0616, pp408 and pp410 are non-contiguous as a result of project impacts and can no longer be counted towards the available foraging habitat for the partition.

Appendix Table H-87. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D08-01R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Heighty Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D0717	0.97	20	31P	311.72	98.00	37.62	22.00	0.00	0.00	9.32	0.00	0.00	0.00	22.00	120.00	1	11	0	3	1	0					0.00	0.00
D0719	6.47	51	10	45.10	13.33	10.86	7.78	5.94	9.44	10.65	9.20	5.95	15.00	17.22	45.56	6	27	47	3	1	0					0.00	0.00
D0721	0.37	36	ND	31.13	5.71	15.69	11.43	23.80	35.71	0.00	9.33	6.71	15.71	47.14	68.57	2	17	29	3	1	0					0.00	0.00
D0805	30.49	93	66****	6.35	1.50	1.06	1.00	3.06	5.00	36.40	29.84	13.02	40.00	6.00	47.50	7	11	91	3	1	0					0.00	0.00
D0808	12.65	79	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					12.65	0.00
D0809	43.77	56	32	28.96	8.95	29.61	20.53	15.32	21.58	4.24	4.59	2.76	6.84	42.11	57.89	1	37	14	3	1	1	43.77	1,843.15				
D0811	17.85	100	31	11.97	3.00	2.23	2.00	7.34	12.00	2.03	4.53	1.79	7.00	14.00	24.00	2	26	40	3	1	0					17.85	249.90
D0813	8.75	91	42**	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
D0815	14.21	91	32	17.46	4.50	13.81	9.00	3.16	5.00	27.37	9.27	1.20	8.00	14.00	26.50	1	32	38	3	1	0					14.21	198.94
D0818	42.24	84	32	23.72	6.32	16.83	12.63	11.94	18.42	8.98	3.43	0.87	4.21	31.05	41.58	1	29	13	3	1	1	42.24	1,311.55				
D0819	51.27	63	42**	3.00	1.05	3.35	2.11	7.35	12.11	36.18	25.41	10.51	34.21	14.21	49.47	2	22	77	3	1	0					0.00	0.00
D0820	0.38	106	57***	6.05	1.67	2.44	1.67	3.66	5.56	2.31	5.63	3.76	10.00	7.22	18.89	1	47	61	3	1	0					0.00	0.00
D0914	0.82	59	31U	2.85	1.05	6.12	4.74	18.10	30.00	9.51	0.91	0.67	1.58	34.74	37.37	2	23	6	3	1	1	0.00	0.00				
D0915	36.32	59	32	31.55	7.50	8.92	6.88	11.07	16.88	6.89	5.55	2.28	6.88	23.75	38.13	2	32	28	3	1	0					36.32	862.60
D0915	0.07	59	32U	31.55	7.50	8.92	6.88	11.07	16.88	6.89	5.55	2.28	6.88	23.75	38.13	2	32	28	3	1	0					0.07	1.66
D0916	2.00	0	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					2.00	0.00
D0917	4.17	0	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					4.17	0.00
I0304	1.69	69	25U	7.74	3.33	11.06	8.33	19.86	35.00	20.16	2.44	2.30	6.67	43.33	53.33	1	18	13	3	1	1	0.00	0.00				
I0305	11.91	69	25	23.06	7.50	23.81	17.50	14.01	18.00	2.68	1.40	0.26	1.50	35.50	44.50	1	31	4	3	1	1	0.00	0.00				
I0312	0.17	61	25	74.91	21.50	24.15	16.00	6.08	8.50	14.02	0.90	0.00	0.50	24.50	46.50	1	20	3	3	1	0					0.17	4.17
I0402	12.90	41	25	21.76	5.00	12.22	9.50	15.30	24.00	2.31	0.79	0.65	2.00	33.50	40.50	1	46	5	3	1	1	0.00	0.00				
pp115*	5.94	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.94	0.00
pp116*	5.13	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.13	0.00
pp117*	16.74	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					16.74	0.00
pp233*	1.33	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp437*	3.53	13	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.53	0.00
pp438*	5.64	13	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.64	0.00
pp439*	6.83	13	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					6.83	0.00
	344.61																					**86.01**	**3,154.70**	**0.00**	**0.00**	**131.25**	**1,317.27**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D0808	2009	69743	Southern Training Area Infrastructure-Maneuver Area					3.82	0.00
D0809	2009	69743	Southern Training Area Infrastructure-Maneuver Area	43.77	1,843.15				
D0818	**2009**	**69743**	**Southern Training Area Infrastructure-Maneuver Are**	**2.63**	**81.66**				
D0915	2009	69743	Southern Training Area Infrastructure-Maneuver Area					29.05	689.94
D0915	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					2.22	52.73
D0916	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.66	0.00
D0917	2009	69743	Southern Training Area Infrastructure-Maneuver Area					3.01	0.00
I0312	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.17	4.17
pp115*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.61	0.00
			TOTAL REMOVALS	**46.40**	**1,924.82**	**0.00**	**0.00**	**39.54**	**746.83**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**39.61**	**1,229.88**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**91.71**	**570.44**
TOTAL	**131.32**	**1,800.32**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21P = Longleaf Pine Plantation
25 = Mixed Pine
25U = Mixed Pine Underplanted
31 = Loblolly Pine
31P = Loblolly Pine Plantation
31U = Loblolly Pine Underplanted
32 = Shortleaf Pine
32U = Shortleaf Pine Underplanted
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)
57*** = Scrub Oak (managed for hardwoods)
66**** = Oak-Hickory (managed for hardwoods)
ND = No data provided
NM = Not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-88. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D08-01R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D0717	0.97	20	31P	311.72	98.00	37.62	22.00	0.00	0.00	9.32	0.00	0.00	0.00	22.00	120.00	1	11	0	3	1	2.52	NH					0.00	0.00
D0719	6.47	51	10	45.10	13.33	10.86	7.78	5.94	9.44	10.65	9.20	5.95	15.00	17.22	45.56	6	27	47	3	1	2.87	PS					0.00	0.00
D0721	0.37	36	ND	31.13	5.71	15.69	11.43	23.80	35.71	0.00	9.33	6.71	15.71	47.14	68.57	2	17	29	3	1	3.91	PS					0.00	0.00
D0805	30.49	93	66****	6.35	1.50	1.06	1.00	3.06	5.00	36.40	29.84	13.02	40.00	6.00	47.50	7	11	91	3	1	2.72	PS					0.00	0.00
D0808	12.65	79	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.62	PS					12.65	0.00
D0809	43.77	56	32	28.96	8.95	29.61	20.53	15.32	21.58	4.24	4.59	2.76	6.84	42.11	57.89	1	37	14	3	1	4.37	PS					43.77	1,843.15
D0811	17.85	100	31	11.97	3.00	2.23	2.00	7.34	12.00	2.03	4.53	1.79	7.00	14.00	24.00	2	26	40	3	1	3.46	PS					17.85	249.90
D0813	8.75	91	42**	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.62	PS					0.00	0.00
D0815	14.21	91	32	17.46	4.50	13.81	9.00	3.16	5.00	27.37	9.27	1.20	8.00	14.00	26.50	1	32	38	3	1	3.27	PS					14.21	198.94
D0818	42.24	84	32	23.72	6.32	16.83	12.63	11.94	18.42	8.98	3.43	0.87	4.21	31.05	41.58	1	29	13	3	1	4.03	PS					42.24	1,311.55
D0819	51.27	63	42**	3.00	1.05	3.35	2.11	7.35	12.11	36.18	25.41	10.51	34.21	14.21	49.47	2	22	77	3	1	3.46	PS					0.00	0.00
D0820	0.38	106	57***	6.05	1.67	2.44	1.67	3.66	5.56	2.31	5.63	3.76	10.00	7.22	18.89	1	47	61	3	1	3.37	PS					0.00	0.00
D0914	0.82	59	31U	2.85	1.05	6.12	4.74	18.10	30.00	9.51	0.91	0.67	1.58	34.74	37.37	2	23	6	3	1	4.46	PS					0.82	28.49
D0915	36.32	59	32	31.55	7.50	8.92	6.88	11.07	16.88	6.89	5.55	2.28	6.88	23.75	38.13	2	32	28	3	1	3.80	PS					36.32	862.60
D0915	0.07	59	32U	31.55	7.50	8.92	6.88	11.07	16.88	6.89	5.55	2.28	6.88	23.75	38.13	2	32	28	3	1	3.80	PS					0.07	1.66
D0916	2.00	0	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					2.00	0.00
D0917	4.17	0	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					4.17	0.00
I0304	1.69	69	25U	7.74	3.33	11.06	8.33	19.86	35.00	20.16	2.44	2.30	6.67	43.33	53.33	1	18	13	3	1	4.48	CS	0.00	0.00				
I0305	11.91	69	25	23.06	7.50	23.81	17.50	14.01	18.00	2.68	1.40	0.26	1.50	35.50	44.50	1	31	4	3	1	4.39	PS					11.91	422.81
I0312	0.17	61	25	74.91	21.50	24.15	16.00	6.08	8.50	14.02	0.90	0.00	0.50	24.50	46.50	1	20	3	3	1	3.42	PS					0.17	4.17
I0402	12.90	41	25	21.76	5.00	12.22	9.50	15.30	24.00	2.31	0.79	0.65	2.00	33.50	40.50	1	46	5	3	1	4.35	PS					12.90	432.15
pp115*	5.94	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					5.94	0.00
pp116*	5.13	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					5.13	0.00
pp117*	16.74	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					16.74	0.00
pp233*	1.33	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp437*	3.53	13	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.53	0.00
pp438*	5.64	13	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					5.64	0.00
pp439*	6.83	13	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					6.83	0.00
	344.61																						**0.00**	**0.00**	**0.00**	**0.00**	**242.89**	**5,355.42**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D0808	2009	69743	Southern Training Area Infrastructure-Maneuver Area					3.82	0.00
D0809	2009	69743	Southern Training Area Infrastructure-Maneuver Area					43.77	1,843.15
D0818	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.63	81.66
D0914	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.82	28.49
D0915	2009	69743	Southern Training Area Infrastructure-Maneuver Area					29.05	689.94
D0915	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					2.22	52.73
D0916	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.66	0.00
D0917	2009	69743	Southern Training Area Infrastructure-Maneuver Area					3.01	0.00
I0305	2009	69743	Southern Training Area Infrastructure-Maneuver Area					10.51	373.11
I0305	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.40	49.70
I0312	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.17	4.17
I0402	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					3.72	124.62
I0402	2009	69743	Southern Training Area Infrastructure-Maneuver Area					9.17	307.20
pp115*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.61	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**111.56**	**3,554.77**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**131.33**	**1,800.65**
TOTAL	**131.33**	**1,800.65**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21P = Longleaf Pine Plantation
25 = Mixed Pine
25U = Mixed Pine Underplanted
31 = Loblolly Pine
31P = Loblolly Pine Plantation
31U = Loblolly Pine Underplanted
32 = Shortleaf Pine
32U = Shortleaf Pine Underplanted
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)
57*** = Scrub Oak (managed for hardwoods)
66**** = Oak-Hickory (managed for hardwoods)
ND = No data provided
NM = Not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-89. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D10-01 Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D1001	0.14	47	62**	39.31	10.00	6.84	4.74	5.03	9.47	34.67	9.64	8.72	20.00	14.21	44.21	2	26	61	3	1	0					0.00	0.00
D1004	12.57	55	31U	9.59	2.50	22.94	17.50	13.17	17.50	5.16	1.77	2.10	4.50	35.00	42.00	4	59	10	3	1	0			0.00	0.00		
D1005	3.94	55	31	15.27	5.00	10.52	7.50	23.45	35.00	31.92	3.79	0.00	2.50	42.50	50.00	2	18	10	3	1	1	0.00	0.00				
D1005	0.04	55	31U	15.27	5.00	10.52	7.50	23.45	35.00	31.92	3.79	0.00	2.50	42.50	50.00	2	18	10	3	1	1	0.00	0.00				
D1006	3.20	13	31	237.54	47.50	0.00	0.00	0.00	0.00	18.75	4.41	2.18	5.00	0.00	52.50	1	3	100	3	1	0					3.20	0.00
D1016	1.39	85	13	9.97	2.50	2.21	1.50	8.97	17.50	14.38	12.87	8.22	26.00	19.00	47.50	5	22	65	3	1	0					1.39	26.41
D1112	2.62	91	26	27.98	6.50	9.87	7.50	15.59	23.50	26.72	7.36	6.09	13.50	31.00	51.00	1	33	35	3	1	1	0.00	0.00				
D1114	4.18	57	26	13.70	4.00	5.66	4.00	14.40	24.00	8.13	6.30	2.53	8.00	28.00	40.00	1	41	31	3	1	0					4.18	117.04
D1122	1.11	7	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
D1712	1.69	80	21	28.01	7.50	20.18	15.50	17.01	25.00	15.71	4.28	0.24	4.00	40.50	52.00	1	39	11	3	1	1	1.69	68.45				
D1716	3.35	86	25	45.18	11.00	7.34	5.50	15.81	27.00	8.10	0.54	0.00	0.50	32.50	44.00	1	41	2	3	1	1	3.35	108.88				
D1718	2.73	68	31	1.21	0.50	9.38	7.00	16.71	27.50	7.62	1.48	0.63	2.00	34.50	37.00	2	51	7	3	1	1	2.73	94.19				
D1720	6.54	93	66***	22.91	7.00	10.36	7.50	4.10	5.00	47.55	23.77	4.79	25.00	12.50	44.50	1	37	66	3	1	0					0.00	0.00
D1722	12.66	50	25	123.03	33.00	18.77	12.50	3.28	4.50	14.06	1.43	2.32	5.50	17.00	55.50	1	40	15	3	1	0					12.66	215.22
D1724	3.40	46	10	57.98	16.00	17.19	11.50	5.58	7.00	11.40	6.42	2.24	7.50	18.50	42.00	1	42	28	3	1	0					3.40	62.90
D1729	40.41	82	31	8.34	2.50	7.94	6.00	18.15	27.00	1.87	1.22	0.45	1.50	33.00	37.00	1	46	6	3	1	1	40.41	1,333.53				
D1730	14.04	79	32	47.81	13.50	14.11	9.50	10.14	17.00	1.02	4.08	3.42	8.50	26.50	48.50	1	37	24	3	1	0					14.04	372.06
D1733	4.70	73	31	16.19	4.50	14.50	10.00	12.57	19.00	7.27	4.84	2.20	7.50	29.00	41.00	2	23	21	3	1	0					4.70	136.30
pp259*	12.88	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					12.88	0.00
pp394*	0.13	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp512*	21.86	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					21.86	0.00
pp726*	0.02	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp727*	6.15	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp728*	11.76	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp729*	2.31	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp803*	27.44	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					27.44	0.00
	201.26																					**48.18**	**1,605.05**	**0.00**	**0.00**	**105.75**	**929.93**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D1006	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.72	0.00
D1006	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.48	0.00
D1016	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.43	8.17
D1016	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.96	18.24
D1114	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.92	25.76
D1712	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	0.70	28.35				
D1729	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	1.80	59.40				
D1733	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.01	0.29
D1733	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.72	20.88
pp259*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					5.72	0.00
pp259*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.69	0.00
pp512*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					2.74	0.00
			TOTAL REMOVALS	**2.50**	**87.75**	**0.00**	**0.00**	**15.39**	**73.34**

POST-PROJECT	**2009 SUB-TOTAL**		**non-contiguous habitat**		**2009 TOTAL**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**45.68**	**1,517.30**	**0.00**	**0.00**	**45.68**	**1,517.30**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**90.36**	**856.59**	**4.97**	**115.13**	**85.39**	**741.46**
TOTAL	**136.04**	**2,373.89**	**4.97**	**115.13**	**131.07**	**2,258.76**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine=Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31U = Loblolly Pine Underplanted
32 = Shortleaf Pine
62** = Sweetgum-Water Oak-Willow Oak (managed for hardwoods)
66*** = Oak-Hickory (managed for hardwoods)
NM = not managed

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Stands D1006 and D1733 are non-contiguous as a result of project impacts and can no longer be counted towards the total foraging habitat available within the partition.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-90. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D10-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D1001	0.14	47	62**	39.31	10.00	6.84	4.74	5.03	9.47	34.67	9.64	8.72	20.00	14.21	44.21	2	26	61	3	1	2.98	PS					0.00	0.00
D1004	12.57	55	31U	9.59	2.50	22.94	17.50	13.17	17.50	5.16	1.77	2.10	4.50	35.00	42.00	4	59	10	3	1	4.25	PS					12.57	439.95
D1005	3.94	55	31	15.27	5.00	10.52	7.50	23.45	35.00	31.92	3.79	0.00	2.50	42.50	50.00	2	18	10	3	1	4.34	PS					3.94	167.45
D1005	0.04	55	31U	15.27	5.00	10.52	7.50	23.45	35.00	31.92	3.79	0.00	2.50	42.50	50.00	2	18	10	3	1	4.34	PS					0.04	1.70
D1006	3.20	13	31	237.54	47.50	0.00	0.00	0.00	0.00	18.75	4.41	2.18	5.00	0.00	52.50	1	3	100	3	1	2.12	NH					3.20	0.00
D1016	1.39	85	13	9.97	2.50	2.21	1.50	8.97	17.50	14.38	12.87	8.22	26.00	19.00	47.50	5	22	65	3	1	3.22	PS					1.39	26.41
D1112	2.62	91	26	27.98	6.50	9.87	7.50	15.59	23.50	26.72	7.36	6.09	13.50	31.00	51.00	1	33	35	3	1	4.22	PS					2.62	81.22
D1114	4.18	57	26	13.70	4.00	5.66	4.00	14.40	24.00	8.13	6.30	2.53	8.00	28.00	40.00	1	41	31	3	1	4.20	PS					4.18	117.04
D1122	1.11	7	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
D1712	1.69	80	21	28.01	7.50	20.18	15.50	17.01	25.00	15.71	4.28	0.24	4.00	40.50	52.00	1	39	11	3	1	4.51	PS					1.69	68.45
D1716	3.35	86	25	45.18	11.00	7.34	5.50	15.81	27.00	8.10	0.54	0.00	0.50	32.50	44.00	1	41	2	3	1	4.52	PS					3.35	108.88
D1718	2.73	68	31	1.21	0.50	9.38	7.00	16.71	27.50	7.62	1.48	0.63	2.00	34.50	37.00	2	51	7	3	1	4.65	PS					2.73	94.19
D1720	6.54	93	66***	22.91	7.00	10.36	7.50	4.10	5.00	47.55	23.77	4.79	25.00	12.50	44.50	1	37	66	3	1	3.25	PS					0.00	0.00
D1722	12.66	50	25	123.03	33.00	18.77	12.50	3.28	4.50	14.06	1.43	2.32	5.50	17.00	55.50	1	40	15	3	1	3.03	PS					12.66	215.22
D1724	3.40	46	10	57.98	16.00	17.19	11.50	5.58	7.00	11.40	6.42	2.24	7.50	18.50	42.00	1	42	28	3	1	3.20	PS					3.40	62.90
D1729	40.41	82	31	8.34	2.50	7.94	6.00	18.15	27.00	1.87	1.22	0.45	1.50	33.00	37.00	1	46	6	3	1	4.80	CS	40.41	1,333.53				
D1730	14.04	79	32	47.81	13.50	14.11	9.50	10.14	17.00	1.02	4.08	3.42	8.50	26.50	48.50	1	37	24	3	1	3.89	PS					14.04	372.06
D1733	4.70	73	31	16.19	4.50	14.50	10.00	12.57	19.00	7.27	4.84	2.20	7.50	29.00	41.00	2	23	21	3	1	3.98	PS					4.70	136.30
pp259*	12.88	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					12.88	0.00
pp394*	0.13	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.13	0.00
pp512*	21.86	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					21.86	0.00
pp726*	0.02	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.02	0.00
pp727*	6.15	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp728*	11.76	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp729*	2.31	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp803*	27.44	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					27.44	0.00
	201.26																						**40.41**	**1,333.53**	**0.00**	**0.00**	**132.84**	**1,891.77**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D1004	2009	69743	Southern Training Area Infrastructure-Maneuver Area					9.34	326.90
D1004	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					3.23	113.05
D1005	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.11	89.68
D1005	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.58	67.15
D1006	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.72	0.00
D1006	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.48	0.00
D1016	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.43	8.17
D1016	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.96	18.24
D1114	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.92	25.76
D1712	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.70	28.35
D1729	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	1.80	59.40				
D1733	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.01	0.29
D1733	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.72	20.88
pp259*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					5.72	0.00
pp259*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.69	0.00
pp394*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.13	0.00
pp512*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					2.74	0.00
pp726*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.02	0.00
			TOTAL REMOVALS	**1.80**	**59.40**	**0.00**	**0.00**	**32.50**	**698.47**

POST-PROJECT	**2009**		**non-contiguous habitat**		**2009 TOTAL**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**38.61**	**1,274.13**	**0.00**	**0.00**	**38.61**	**1,274.13**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**100.34**	**1,193.30**	**5.26**	**127.45**	**95.08**	**1,065.85**
TOTAL	**138.95**	**2,467.43**	**5.26**	**127.45**	**133.69**	**2,339.98**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine=Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31U = Loblolly Pine Underplanted
32 = Shortleaf Pine
62** = Sweetgum-Water Oak-Willow Oak (managed for hardwoods)
66*** = Oak-Hickory (managed for hardwoods)
NM = not managed

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Stands D1005, D1006 and D1733 are non-contiguous as a result of project impacts and can no longer be counted towards the total foraging habitat available within the partition.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-91. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D11-01 Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D1102	2.06	88	21	17.18	5.00	20.15	14.50	8.66	11.50	35.55	5.20	2.00	6.50	26.00	37.50	1	28	20	3	1	0					2.06	53.56
D1103	0.25	88	21	10.52	2.50	12.22	9.50	27.54	41.00	3.61	0.68	0.78	1.50	50.50	54.50	1	21	4	3	1	1	0.25	12.63				
D1109	63.99	78	31	19.55	5.50	12.80	9.00	19.33	29.50	25.87	6.42	3.70	10.50	38.50	54.50	1	26	24	3	1	1	63.99	2,463.62				
D1109	0.03	78	31U	19.55	5.50	12.80	9.00	19.33	29.50	25.87	6.42	3.70	10.50	38.50	54.50	1	26	24	3	1	1	0.03	1.16				
D1110	0.92	7	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
D1112	6.77	91	26	27.98	6.50	9.87	7.50	15.59	23.50	26.72	7.36	6.09	13.50	31.00	51.00	1	33	35	3	1	1	6.77	209.87				
D1115	19.09	69	31U	16.31	4.00	9.15	7.00	19.10	29.50	5.16	2.20	2.18	5.50	36.50	46.00	1	40	13	3	1	1	19.09	696.79				
D1122	0.26	7	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
E0406	2.15	76	10	18.48	5.26	10.78	7.37	11.06	16.32	2.76	3.39	4.75	12.11	23.68	41.05	2	48	27	3	1	0					2.15	50.91
E0413	3.88	79	31	13.21	4.00	7.49	5.50	15.39	25.00	10.36	6.20	5.17	12.00	30.50	46.50	1	44	33	3	1	1	3.88	118.34				
pp513*	13.47	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					13.47	0.00
pp514*	26.39	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					26.39	0.00
pp537*	0.86	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.86	0.00
pp538*	2.52	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.52	0.00
pp729*	2.24	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.24	0.00
	144.88																					**94.01**	**3,502.41**	**0.00**	**0.00**	**49.69**	**104.47**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D1102	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.78	46.28
D1109	2009	69743	Southern Training Area Infrastructure-Maneuver Area	27.16	1,045.66				
D1109	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	0.01	0.39				
D1115	2009	69743	Southern Training Area Infrastructure-Maneuver Area	16.29	594.59				
D1115	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	2.53	92.35				
E0406	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.89	21.08
E0406	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.26	29.84
E0413	2009	69743	Southern Training Area Infrastructure-Maneuver Area	2.89	88.15				
E0413	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	0.98	29.89				
pp513*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					13.47	0.00
pp514*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					11.68	0.00
pp537*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.62	0.00
pp537*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.24	0.00
pp538*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.01	0.00
pp538*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.51	0.00
pp729*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.17	0.00
			TOTAL REMOVALS	**49.86**	**1,851.03**	**0.00**	**0.00**	**34.63**	**97.20**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**44.15**	**1,651.38**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**15.06**	**7.27**
TOTAL	**59.21**	**1,658.65**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31U = Loblolly Pine Underplanted
NM = Not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-92. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D11-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D1102	2.06	88	21	17.18	5.00	20.15	14.50	8.66	11.50	35.55	5.20	2.00	6.50	26.00	37.50	1	28	20	3	1	3.63	PS					2.06	53.56
D1103	0.25	88	21	10.52	2.50	12.22	9.50	27.54	41.00	3.61	0.68	0.78	1.50	50.50	54.50	1	21	4	3	1	4.65	CS	0.25	12.63				
D1109	63.99	78	31	19.55	5.50	12.80	9.00	19.33	29.50	25.87	6.42	3.70	10.50	38.50	54.50	1	26	24	3	1	4.41	CS	63.99	2,463.62				
D1109	0.03	78	31U	19.55	5.50	12.80	9.00	19.33	29.50	25.87	6.42	3.70	10.50	38.50	54.50	1	26	24	3	1	4.41	CS	0.03	1.16				
D1110	0.92	7	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
D1112	6.77	91	26	27.98	6.50	9.87	7.50	15.59	23.50	26.72	7.36	6.09	13.50	31.00	51.00	1	33	35	3	1	4.22	PS					6.77	209.87
D1115	19.09	69	31U	16.31	4.00	9.15	7.00	19.10	29.50	5.16	2.20	2.18	5.50	36.50	46.00	1	40	13	3	1	4.63	CS	19.09	696.79				
D1122	0.26	7	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
E0406	2.15	76	10	18.48	5.26	10.78	7.37	11.06	16.32	2.76	3.39	4.75	12.11	23.68	41.05	2	48	27	3	1	4.06	PS					2.15	50.91
E0413	3.88	79	31	13.21	4.00	7.49	5.50	15.39	25.00	10.36	6.20	5.17	12.00	30.50	46.50	1	44	33	3	1	4.34	PS					3.88	118.34
pp513*	13.47	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					13.47	0.00
pp514*	26.39	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					26.39	0.00
pp537*	0.86	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.86	0.00
pp538*	2.52	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.52	0.00
pp729*	2.24	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.24	0.00
	144.88																						**83.36**	**3,174.20**	**0.00**	**0.00**	**60.34**	**432.68**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D1102	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.78	46.28
D1109	2009	69743	Southern Training Area Infrastructure-Maneuver Area	27.16	1,045.66				
D1109	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	0.01	0.39				
D1115	2009	69743	Southern Training Area Infrastructure-Maneuver Area	16.29	594.59				
D1115	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	2.53	92.35				
E0406	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.89	21.08
E0406	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.26	29.84
E0413	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.89	88.15
E0413	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.98	29.89
pp513*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					13.47	0.00
pp514*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					11.68	0.00
pp537*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.62	0.00
pp537*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.24	0.00
pp538*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.01	0.00
pp538*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.51	0.00
pp729*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.17	0.00
			TOTAL REMOVALS	**45.99**	**1,732.99**	**0.00**	**0.00**	**38.50**	**215.24**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**37.37**	**1,441.21**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**21.84**	**217.44**
TOTAL	**59.21**	**1,658.65**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31U = Loblolly Pine Underplanted
NM = Not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-93. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D11-02**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D1102	15.96	88	21	17.18	5.00	20.15	14.50	8.66	11.50	35.55	5.20	2.00	6.50	26.00	37.50	1	28	20	3	1	0					15.96	414.96
D1102	0.03	88	21U	17.18	5.00	20.15	14.50	8.66	11.50	35.55	5.20	2.00	6.50	26.00	37.50	1	28	20	3	1	0					0.03	0.78
D1103	0.29	88	21	10.52	2.50	12.22	9.50	27.54	41.00	3.61	0.68	0.78	1.50	50.50	54.50	1	21	4	3	1	1	0.29	14.65				
D1109	45.38	78	31	19.55	5.50	12.80	9.00	19.33	29.50	25.87	6.42	3.70	10.50	38.50	54.50	1	26	24	3	1	1	45.38	1,747.13				
D1115	0.02	69	31U	16.31	4.00	9.15	7.00	19.10	29.50	5.16	2.20	2.18	5.50	36.50	46.00	1	40	13	3	1	1	0.02	0.73				
D1243	1.24	44	25	6.66	2.50	14.75	11.00	10.30	14.50	23.82	2.23	0.39	2.00	25.50	30.00	1	24	9	3	1	0					1.24	31.62
D1243	4.27	44	25U	6.66	2.50	14.75	11.00	10.30	14.50	23.82	2.23	0.39	2.00	25.50	30.00	1	24	9	3	1	0					4.27	108.89
E0402	19.88	76	25	17.25	3.50	11.65	8.50	17.22	27.50	10.48	2.82	2.73	7.00	36.00	46.50	1	31	16	3	1	1	19.88	715.68				
E0403	35.28	55	25	13.20	4.00	28.73	19.50	12.01	16.50	1.16	1.31	1.92	4.00	36.00	44.00	1	44	7	3	1	1	35.28	1,270.08				
E0406	30.45	76	10	18.48	5.26	10.78	7.37	11.06	16.32	2.76	3.39	4.75	12.11	23.68	41.05	2	48	27	3	1	0					30.45	721.06
E0407	0.03	53	26	36.30	12.22	23.76	17.22	10.17	13.33	3.61	1.89	1.11	3.33	30.56	46.11	1	33	8	3	1	1	0.03	0.92				
E0413	4.00	79	31	13.21	4.00	7.49	5.50	15.39	25.00	10.36	6.20	5.17	12.00	30.50	46.50	1	44	33	3	1	1	4.00	122.00				
pp323*	2.96	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.96	0.00
	159.79																					**104.88**	**3,871.19**	**0.00**	**0.00**	**54.91**	**1,277.31**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D1102	2009	69743	Southern Training Area Infrastructure-Maneuver Area					13.10	340.60
D1102	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					2.89	75.14
D1103	2009	69743	Southern Training Area Infrastructure-Maneuver Area	0.28	14.14				
D1103	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	0.01	0.51				
D1109	2009	69743	Southern Training Area Infrastructure-Maneuver Area	41.00	1,578.50				
D1109	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	4.23	162.86				
D1115	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	0.02	0.73				
D1243	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.15	3.83
D1243	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.11	28.31
E0402	2009	69743	Southern Training Area Infrastructure-Maneuver Area	13.03	469.08				
E0402	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	0.44	15.84				
E0403	2009	69743	Southern Training Area Infrastructure-Maneuver Area	23.82	857.52				
E0403	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	2.08	74.88				
E0406	2009	69743	Southern Training Area Infrastructure-Maneuver Area					27.32	646.94
E0406	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					3.01	71.28
E0413	2009	69743	Southern Training Area Infrastructure-Maneuver Area	4.00	122.00				
pp323*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.96	0.00
			TOTAL REMOVALS	**88.91**	**3,296.06**	**0.00**	**0.00**	**50.54**	**1,166.10**

POST-PROJECT	**2009**		**non-contiguous habitat**		**2009 TOTAL**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**15.97**	**575.13**	**15.82**	**569.36**	**0.15**	**5.77**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**4.37**	**111.21**	**0.12**	**2.84**	**4.25**	**108.37**
TOTAL	**20.34**	**686.34**	**15.94**	**572.20**	**4.40**	**114.14**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21U = Longleaf Pine Plantation Underplanted
25 = Mixed Pine
25U = Mixed Pine Underplanted
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31U = Loblolly Pine Underplanted

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Stands E0402, E0403, E0406 and E0407 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition. Future removals from these stands were not considered.

Appendix Table H-94. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D11-02**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D1102	15.96	88	21	17.18	5.00	20.15	14.50	8.66	11.50	35.55	5.20	2.00	6.50	26.00	37.50	1	28	20	3	1	3.63	PS					15.96	414.96
D1102	0.03	88	21U	17.18	5.00	20.15	14.50	8.66	11.50	35.55	5.20	2.00	6.50	26.00	37.50	1	28	20	3	1	3.63	PS					0.03	0.78
D1103	0.29	88	21	10.52	2.50	12.22	9.50	27.54	41.00	3.61	0.68	0.78	1.50	50.50	54.50	1	21	4	3	1	4.65	CS	0.29	14.65				
D1109	45.38	78	31	19.55	5.50	12.80	9.00	19.33	29.50	25.87	6.42	3.70	10.50	38.50	54.50	1	26	24	3	1	4.41	CS	45.38	1,747.13				
D1115	0.02	69	31U	16.31	4.00	9.15	7.00	19.10	29.50	5.16	2.20	2.18	5.50	36.50	46.00	1	40	13	3	1	4.63	CS	0.02	0.73				
D1243	1.24	44	25	6.66	2.50	14.75	11.00	10.30	14.50	23.82	2.23	0.39	2.00	25.50	30.00	1	24	9	3	1	3.63	PS					1.24	31.62
D1243	4.27	44	25U	6.66	2.50	14.75	11.00	10.30	14.50	23.82	2.23	0.39	2.00	25.50	30.00	1	24	9	3	1	3.63	PS					4.27	108.89
E0402	19.88	76	25	17.25	3.50	11.65	8.50	17.22	27.50	10.48	2.82	2.73	7.00	36.00	46.50	1	31	16	3	1	4.42	PS					19.88	715.68
E0403	35.28	55	25	13.20	4.00	28.73	19.50	12.01	16.50	1.16	1.31	1.92	4.00	36.00	44.00	1	44	7	3	1	4.22	PS					35.28	1,270.08
E0406	30.45	76	10	18.48	5.26	10.78	7.37	11.06	16.32	2.76	3.39	4.75	12.11	23.68	41.05	2	48	27	3	1	4.06	PS					30.45	721.06
E0407	0.03	53	26	36.30	12.22	23.76	17.22	10.17	13.33	3.61	1.89	1.11	3.33	30.56	46.11	1	33	8	3	1	3.86	PS					0.03	0.92
E0413	4.00	79	31	13.21	4.00	7.49	5.50	15.39	25.00	10.36	6.20	5.17	12.00	30.50	46.50	1	44	33	3	1	4.34	PS					4.00	122.00
pp323*	2.96	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.96	0.00
	159.79																						**45.69**	**1,762.51**	**0.00**	**0.00**	**114.10**	**3,385.99**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D1102	2009	69743	Southern Training Area Infrastructure-Maneuver Area					13.10	340.60
D1102	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					2.89	75.14
D1103	2009	69743	Southern Training Area Infrastructure-Maneuver Area	0.28	14.14				
D1103	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	0.01	0.51				
D1109	2009	69743	Southern Training Area Infrastructure-Maneuver Area	41.00	1,578.50				
D1109	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	4.23	162.86				
D1115	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	0.02	0.73				
D1243	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.15	3.83
D1243	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.11	28.31
E0402	2009	69743	Southern Training Area Infrastructure-Maneuver Area					13.03	469.08
E0402	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.44	15.84
E0403	2009	69743	Southern Training Area Infrastructure-Maneuver Area					23.82	857.52
E0403	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					2.08	74.88
E0406	2009	69743	Southern Training Area Infrastructure-Maneuver Area					27.32	646.94
E0406	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					3.01	71.28
E0413	2009	69743	Southern Training Area Infrastructure-Maneuver Area					4.00	122.00
pp323*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.96	0.00
			TOTAL REMOVALS	**45.54**	**1,756.74**	**0.00**	**0.00**	**93.91**	**2,705.42**

POST-PROJECT	**2009**		**non-contiguous habitat**		**2009 TOTAL**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**0.15**	**5.77**	**0.00**	**0.00**	**0.15**	**5.77**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**20.19**	**680.57**	**15.94**	**572.20**	**4.25**	**108.37**
TOTAL	**20.34**	**686.34**	**15.94**	**572.20**	**4.40**	**114.14**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21U = Longleaf Pine Plantation Underplanted
25 = Mixed Pine
25U = Mixed Pine Underplanted
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31U = Loblolly Pine Underplanted

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Stands E0402, E0403, E0406 and E0407 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition. Future removals from these stands were not considered.

Appendix Table H-95. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D12-01 Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14"	Pine BA >14" dbh	Hwd Stems 4 10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D1102	4.02	88	21	17.18	5.00	20.15	14.50	8.66	11.50	35.55	5.20	2.00	6.50	26.00	37.50	1	28	20	3	1	0					4.02	104.52
D1103	40.68	88	21	10.52	2.50	12.22	9.50	27.54	41.00	3.61	0.68	0.78	1.50	50.50	54.50	1	21	4	3	1	1	40.68	2,054.34				
D1103	0.11	88	21U	10.52	2.50	12.22	9.50	27.54	41.00	3.61	0.68	0.78	1.50	50.50	54.50	1	21	4	3	1	1	0.11	5.56				
D1104	15.74	88	31	42.17	13.50	24.43	17.00	13.32	18.00	23.49	6.97	1.29	7.50	35.00	56.00	1	25	18	3	1	1	15.74	550.90				
D1104	0.02	88	31U	42.17	13.50	24.43	17.00	13.32	18.00	23.49	6.97	1.29	7.50	35.00	56.00	1	25	18	3	1	1	0.02	0.70				
D1105	7.68	NM	31	23.10	4.29	5.95	4.29	3.93	7.14	11.91	8.75	0.22	7.14	11.43	22.86	1	37	48	3	1	0					0.00	0.00
D1106	16.93	88	26	2.51	1.00	8.88	6.50	21.84	33.50	4.70	3.07	1.22	4.50	40.00	45.50	1	29	12	3	1	1	16.93	677.20				
D1109	0.64	78	31	19.55	5.50	12.80	9.00	19.33	29.50	25.87	6.42	3.70	10.50	38.50	54.50	1	26	24	3	1	1	0.64	24.64				
D1202	0.50	61	31	33.98	9.00	29.77	20.50	15.84	25.00	3.17	2.49	0.91	3.50	45.50	58.00	2	31	7	3	1	1	0.50	22.75				
D1209	0.37	49	26	32.67	9.00	20.13	14.00	7.36	10.50	29.04	8.50	2.75	9.50	24.50	43.00	2	19	29	3	1	0					0.37	9.07
D1216	4.90	68	31	23.09	7.50	11.15	8.00	7.82	12.00	9.81	6.10	2.72	8.50	20.00	36.00	1	25	32	3	1	0					4.90	98.00
D1216	24.66	68	31U	23.09	7.50	11.15	8.00	7.82	12.00	9.81	6.10	2.72	8.50	20.00	36.00	1	25	32	3	1	0					24.66	493.20
D1217	1.31	47	31	20.19	5.00	24.23	17.50	10.89	16.50	14.09	1.44	0.74	2.00	34.00	41.00	2	36	6	3	1	1	1.31	44.54				
D1218	9.57	47	31	27.56	9.00	37.12	25.50	8.42	12.00	21.03	1.22	1.28	3.00	37.50	49.50	1	26	5	3	1	1	9.57	358.88				
D1219	28.85	51	21	11.49	3.50	12.27	9.50	8.38	12.00	8.49	7.86	2.10	8.00	21.50	33.00	2	29	33	3	1	0					28.85	620.28
D1219	0.13	51	21U	11.49	3.50	12.27	9.50	8.38	12.00	8.49	7.86	2.10	8.00	21.50	33.00	2	29	33	3	1	0					0.13	2.80
D1227	7.43	51	21	19.17	4.29	11.97	10.00	27.07	37.14	3.23	6.48	2.09	7.14	47.14	58.57	2	20	18	3	1	1	7.43	350.25				
D1229	13.91	58	26	19.97	7.00	29.60	21.50	28.46	42.00	3.93	2.74	0.97	3.50	63.50	74.00	1	27	6	3	1	1	13.91	883.29				
D1229	0.04	58	26U	19.97	7.00	29.60	21.50	28.46	42.00	3.93	2.74	0.97	3.50	63.50	74.00	1	27	6	3	1	1	0.04	2.54				
D1230	6.40	40	10	35.81	9.50	27.20	18.50	5.58	7.50	20.95	8.66	5.10	14.50	26.00	50.00	1	24	30	3	1	0					6.40	166.40
D1230	0.23	40	10U	35.81	9.50	27.20	18.50	5.58	7.50	20.95	8.66	5.10	14.50	26.00	50.00	1	24	30	3	1	0					0.23	5.98
D1243	3.46	44	25	6.66	2.50	14.75	11.00	10.30	14.50	23.82	2.23	0.39	2.00	25.50	30.00	1	24	9	3	1	0					3.46	88.23
D1243	3.61	44	25U	6.66	2.50	14.75	11.00	10.30	14.50	23.82	2.23	0.39	2.00	25.50	30.00	1	24	9	3	1	0					3.61	92.06
D1244	3.04	61	31	17.53	6.00	17.51	13.50	5.40	7.50	2.66	5.10	1.47	6.50	21.00	33.50	1	23	22	3	1	0					3.04	63.84
D1244	12.71	61	31U	17.53	6.00	17.51	13.50	5.40	7.50	2.66	5.10	1.47	6.50	21.00	33.50	1	23	22	3	1	0					12.71	266.91
pp1027*	0.04	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.04	0.00
pp1079*	19.34	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					19.34	0.00
	226.32																					**106.88**	**4,975.59**	**0.00**	**0.00**	**111.76**	**2,011.29**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D1102	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.27	33.02
D1102	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.01	0.26
D1103	2009	69743	Southern Training Area Infrastructure-Maneuver Area	0.31	15.66				
D1103	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	4.17	210.59				
D1104	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	3.25	113.75				
D1202	2009	69743	Southern Training Area Infrastructure-Maneuver Area	0.17	7.74				
D1202	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	0.33	15.02				
D1209	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.37	9.07
D1216	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					2.51	50.20
D1217	2009	69743	Southern Training Area Infrastructure-Maneuver Area	0.27	9.18				
D1217	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	0.48	16.32				
D1218	2009	69743	Southern Training Area Infrastructure-Maneuver Area	2.69	100.88				
D1218	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	0.65	24.38				
D1219	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.03	43.65
D1219	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.80	17.20
D1229	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	1.55	98.43				
D1243	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.34	8.67
D1244	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.82	38.22
pp1027*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.01	0.00
pp1079*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					3.90	0.00
			TOTAL REMOVALS	**13.87**	**611.95**	**0.00**	**0.00**	**13.06**	**200.29**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**93.01**	**4,363.64**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**98.70**	**1,811.00**
TOTAL	**191.71**	**6,174.64**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
10U = Yellow Pine-Upland Hardwood Underplanted
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21U = Longleaf Pine Underplanted
25 = Mixed Pine
25U = Mixed Pine Underplanted
26 = Mixed Pine-Longleaf
26U = Mixed Pine-Longleaf Underplanted
31 = Loblolly Pine
31U = Loblolly Pine Underplanted
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-96. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D12-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D1102	4.02	88	21	17.18	5.00	20.15	14.50	8.66	11.50	35.55	5.20	2.00	6.50	26.00	37.50	1	28	20	3	1	3.63	PS					4.02	104.52
D1103	40.68	88	21	10.52	2.50	12.22	9.50	27.54	41.00	3.61	0.68	0.78	1.50	50.50	54.50	1	21	4	3	1	4.65	CS	40.68	2,054.34				
D1103	0.11	88	21U	10.52	2.50	12.22	9.50	27.54	41.00	3.61	0.68	0.78	1.50	50.50	54.50	1	21	4	3	1	4.65	CS	0.11	5.56				
D1104	15.74	88	31	42.17	13.50	24.43	17.00	13.32	18.00	23.49	6.97	1.29	7.50	35.00	56.00	1	25	18	3	1	4.10	PS					15.74	550.90
D1104	0.02	88	31U	42.17	13.50	24.43	17.00	13.32	18.00	23.49	6.97	1.29	7.50	35.00	56.00	1	25	18	3	1	4.10	PS					0.02	0.70
D1105	7.68	NM	31	23.10	4.29	5.95	4.29	3.93	7.14	11.91	8.75	0.22	7.14	11.43	22.86	1	37	48	3	1	2.70	NH					0.00	0.00
D1106	16.93	88	26	2.51	1.00	8.88	6.50	21.84	33.50	4.70	3.07	1.22	4.50	40.00	45.50	1	29	12	3	1	4.58	CS	16.93	677.20				
D1109	0.64	78	31	19.55	5.50	12.80	9.00	19.33	29.50	25.87	6.42	3.70	10.50	38.50	54.50	1	26	24	3	1	4.41	CS	0.64	24.64				
D1202	0.50	61	31	33.98	9.00	29.77	20.50	15.84	25.00	3.17	2.49	0.91	3.50	45.50	58.00	2	31	7	3	1	4.56	PS					0.50	22.75
D1209	0.37	49	26	32.67	9.00	20.13	14.00	7.36	10.50	29.04	8.50	2.75	9.50	24.50	43.00	2	19	29	3	1	3.17	PS					0.37	9.07
D1216	4.90	68	31	23.09	7.50	11.15	8.00	7.82	12.00	9.81	6.10	2.72	8.50	20.00	36.00	1	25	32	3	1	3.49	PS					4.90	98.00
D1216	24.66	68	31U	23.09	7.50	11.15	8.00	7.82	12.00	9.81	6.10	2.72	8.50	20.00	36.00	1	25	32	3	1	3.49	PS					24.66	493.20
D1217	1.31	47	31	20.19	5.00	24.23	17.50	10.89	16.50	14.09	1.44	0.74	2.00	34.00	41.00	2	36	6	3	1	3.96	PS					1.31	44.54
D1218	9.57	47	31	27.56	9.00	37.12	25.50	8.42	12.00	21.03	1.22	1.28	3.00	37.50	49.50	1	26	5	3	1	3.56	PS					9.57	358.88
D1219	28.85	51	21	11.49	3.50	12.27	9.50	8.38	12.00	8.49	7.86	2.10	8.00	21.50	33.00	2	29	33	3	1	3.37	PS					28.85	620.28
D1219	0.13	51	21U	11.49	3.50	12.27	9.50	8.38	12.00	8.49	7.86	2.10	8.00	21.50	33.00	2	29	33	3	1	3.37	PS					0.13	2.80
D1227	7.43	51	21	19.17	4.29	11.97	10.00	27.07	37.14	3.23	6.48	2.09	7.14	47.14	58.57	2	20	18	3	1	4.38	PS					7.43	350.25
D1229	13.91	58	26	19.97	7.00	29.60	21.50	28.46	42.00	3.93	2.74	0.97	3.50	63.50	74.00	1	27	6	3	1	4.46	PS					13.91	883.29
D1229	0.04	58	26U	19.97	7.00	29.60	21.50	28.46	42.00	3.93	2.74	0.97	3.50	63.50	74.00	1	27	6	3	1	4.46	PS					0.04	2.54
D1230	6.40	40	10	35.81	9.50	27.20	18.50	5.58	7.50	20.95	8.66	5.10	14.50	26.00	50.00	1	24	30	3	1	3.11	PS					6.40	166.40
D1230	0.23	40	10U	35.81	9.50	27.20	18.50	5.58	7.50	20.95	8.66	5.10	14.50	26.00	50.00	1	24	30	3	1	3.11	PS					0.23	5.98
D1243	3.46	44	25	6.66	2.50	14.75	11.00	10.30	14.50	23.82	2.23	0.39	2.00	25.50	30.00	1	24	9	3	1	3.63	PS					3.46	88.23
D1243	3.61	44	25U	6.66	2.50	14.75	11.00	10.30	14.50	23.82	2.23	0.39	2.00	25.50	30.00	1	24	9	3	1	3.63	PS					3.61	92.06
D1244	3.04	61	31	17.53	6.00	17.51	13.50	5.40	7.50	2.66	5.10	1.47	6.50	21.00	33.50	1	23	22	3	1	3.49	PS					3.04	63.84
D1244	12.71	61	31U	17.53	6.00	17.51	13.50	5.40	7.50	2.66	5.10	1.47	6.50	21.00	33.50	1	23	22	3	1	3.49	PS					12.71	266.91
pp1027*	0.04	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.04	0.00
pp1079*	19.34	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					19.34	0.00
	226.32																						**58.36**	**2,761.74**	**0.00**	**0.00**	**160.28**	**4,225.14**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D1102	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.27	33.02
D1102	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.01	0.26
D1103	2009	69743	Southern Training Area Infrastructure-Maneuver Area	0.31	15.66				
D1103	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	4.17	210.59				
D1104	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					3.25	113.75
D1202	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.17	7.74
D1202	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.33	15.02
D1209	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.37	9.07
D1216	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					2.51	50.20
D1217	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.27	9.18
D1217	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.48	16.32
D1218	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.69	100.88
D1218	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.65	24.38
D1219	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.03	43.65
D1219	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.80	17.20
D1229	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.55	98.43
D1243	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.34	8.67
D1244	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.82	38.22
pp1027*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.01	0.00
pp1079*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					3.90	0.00
			TOTAL REMOVALS	**4.48**	**226.25**	**0.00**	**0.00**	**22.45**	**585.99**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
10U = Yellow Pine-Upland Hardwood Underplanted
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21U = Longleaf Pine Underplanted
25 = Mixed Pine
25U = Mixed Pine Underplanted
26 = Mixed Pine-Longleaf
26U = Mixed Pine-Longleaf Underplanted
31 = Loblolly Pine
31U = Loblolly Pine Underplanted
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

POST-PROJECT

	2009 Acres	2009 BA
Suitable Habitat	**53.88**	**2,535.49**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**137.83**	**3,639.15**
TOTAL	**191.71**	**6,174.64**

Appendix Table H-97. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D16-01 Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D0614	0.21	94	25	25.39	6.00	5.33	4.00	14.99	25.00	6.55	5.59	1.49	6.50	29.00	41.50	2	40	26	3	1	0					0.00	0.00
D1613	20.03	57	31	33.99	8.00	9.17	6.50	3.89	6.00	2.17	0.86	3.40	6.00	12.50	26.50	7	27	25	3	1	0					20.03	250.38
D1614	13.37	71	11	4.41	1.50	5.40	4.50	6.17	10.00	15.80	8.66	3.06	11.50	14.50	27.50	1	17	50	3	1	0					13.37	193.87
D1616	8.65	47	26	63.43	15.00	6.18	4.00	10.50	18.00	4.53	1.84	2.24	4.50	22.00	41.50	1	23	20	3	1	0					8.65	190.30
D1621	1.67	51	31	11.62	4.00	19.00	13.50	12.50	17.00	15.39	5.32	1.06	5.50	30.50	40.00	1	32	17	3	1	1	0.00	0.00				
D1624	18.51	36	31	38.33	11.50	38.97	26.00	5.91	7.50	8.21	3.41	0.62	3.50	33.50	48.50	6	30	8	3	1	0			18.51	620.09		
D1627	16.73	77	21	19.70	5.00	16.67	12.50	25.24	37.50	0.00	4.31	2.36	6.50	50.00	61.50	3	38	14	3	1	1	16.73	836.50				
D1627	0.03	77	21U	19.70	5.00	16.67	12.50	25.24	37.50	0.00	4.31	2.36	6.50	50.00	61.50	3	38	14	3	1	1	0.03	1.50				
D1628	21.87	43	21	41.37	12.50	18.19	13.50	11.76	16.50	7.55	5.41	1.48	5.50	30.00	48.00	1	29	19	3	1	1	21.87	656.10				
D1629	60.87	64	31	25.57	7.00	7.44	5.00	13.76	22.00	6.92	2.23	2.37	6.00	27.00	40.00	2	32	18	3	1	0					60.87	1,643.49
D1629	0.06	64	31U	25.57	7.00	7.44	5.00	13.76	22.00	6.92	2.23	2.37	6.00	27.00	40.00	2	32	18	3	1	0					0.06	1.62
D1630	1.45	74	26U	14.62	3.50	0.64	0.50	12.96	23.00	6.41	0.88	4.58	8.00	23.50	35.00	1	5	29	3	1	0					0.00	0.00
D1634	9.90	64	26	30.30	8.00	5.51	4.00	8.62	13.50	15.53	5.35	2.52	7.50	17.50	33.00	6	31	36	3	1	0					9.90	173.25
D1634	0.32	64	26U	30.30	8.00	5.51	4.00	8.62	13.50	15.53	5.35	2.52	7.50	17.50	33.00	6	31	36	3	1	0					0.32	5.60
D1639	0.17	116	32	24.58	6.00	10.93	8.50	3.06	4.50	0.00	1.44	0.00	1.00	13.00	20.00	6	48	9	3	1	0					0.17	2.21
D1639	3.52	116	32U	24.58	6.00	10.93	8.50	3.06	4.50	0.00	1.44	0.00	1.00	13.00	20.00	6	48	9	3	1	0					3.52	45.76
pp135*	3.01	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.01	0.00
pp138*	18.18	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					18.18	0.00
pp234*	9.51	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					9.51	0.00
pp289*	19.90	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					19.90	0.00
pp921*	0.45	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
	228.41																					**38.63**	**1,494.10**	**18.51**	**620.09**	**167.49**	**2,506.48**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D1613	2009	69743	Southern Training Area Infrastructure-Maneuver Area					13.37	167.13
D1614	2009	69743	Southern Training Area Infrastructure-Maneuver Area					6.09	88.31
D1616	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.39	30.58
D1624	2009	69743	Southern Training Area Infrastructure-Maneuver Area			18.50	619.75		
D1634	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.64	11.20
pp135*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					3.01	0.00
pp138*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.85	0.00
pp289*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					3.05	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**18.50**	**619.75**	**29.40**	**297.22**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**38.63**	**1,494.10**
Potentially Suitable Habitat	**0.01**	**0.34**
Future Potential Habitat	**138.09**	**2,209.26**
TOTAL	**176.73**	**3,703.70**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
11 = Longleaf Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21U = Longleaf Pine Underplanted
25 = Mixed Pine
26 = Mixed Pine-Longleaf
26U = Mixed Pine-Longleaf Underplanted
31 = Shortleaf Pine
31U = Shortleaf Pine Underplanted
32 = Loblolly Pine
32U = Loblolly Pine Underplanted

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-98. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D16-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D0614	0.21	94	25	25.39	6.00	5.33	4.00	14.99	25.00	6.55	5.59	1.49	6.50	29.00	41.50	2	40	26	3	1	4.29	PS					0.00	0.00
D1613	20.03	57	31	33.99	8.00	9.17	6.50	3.89	6.00	2.17	0.86	3.40	6.00	12.50	26.50	7	27	25	3	1	2.71	PS					20.03	250.38
D1614	13.37	71	11	4.41	1.50	5.40	4.50	6.17	10.00	15.80	8.66	3.06	11.50	14.50	27.50	1	17	50	3	1	3.36	PS					13.37	193.87
D1616	8.65	47	26	63.43	15.00	6.18	4.00	10.50	18.00	4.53	1.84	2.24	4.50	22.00	41.50	1	23	20	3	1	3.57	PS					8.65	190.30
D1621	1.67	51	31	11.62	4.00	19.00	13.50	12.50	17.00	15.39	5.32	1.06	5.50	30.50	40.00	1	32	17	3	1	3.94	PS					0.00	0.00
D1624	18.51	36	31	38.33	11.50	38.97	26.00	5.91	7.50	8.21	3.41	0.62	3.50	33.50	48.50	6	30	8	3	1	3.01	PS					18.51	620.09
D1627	16.73	77	21	19.70	5.00	16.67	12.50	25.24	37.50	0.00	4.31	2.36	6.50	50.00	61.50	3	38	14	3	1	4.68	CS	16.73	836.50				
D1627	0.03	77	21U	19.70	5.00	16.67	12.50	25.24	37.50	0.00	4.31	2.36	6.50	50.00	61.50	3	38	14	3	1	4.68	CS	0.03	1.50				
D1628	21.87	43	21	41.37	12.50	18.19	13.50	11.76	16.50	7.55	5.41	1.48	5.50	30.00	48.00	1	29	19	3	1	3.62	PS					21.87	656.10
D1629	60.87	64	31	25.57	7.00	7.44	5.00	13.76	22.00	6.92	2.23	2.37	6.00	27.00	40.00	2	32	18	3	1	4.35	PS					60.87	1,643.49
D1629	0.06	64	31U	25.57	7.00	7.44	5.00	13.76	22.00	6.92	2.23	2.37	6.00	27.00	40.00	2	32	18	3	1	4.35	PS					0.06	1.62
D1630	1.45	74	26U	14.62	3.50	0.64	0.50	12.96	23.00	6.41	0.88	4.58	8.00	23.50	35.00	1	5	29	3	1	3.49	PS					0.00	0.00
D1634	9.90	64	26	30.30	8.00	5.51	4.00	8.62	13.50	15.53	5.35	2.52	7.50	17.50	33.00	6	31	36	3	1	3.30	PS					9.90	173.25
D1634	0.32	64	26U	30.30	8.00	5.51	4.00	8.62	13.50	15.53	5.35	2.52	7.50	17.50	33.00	6	31	36	3	1	3.30	PS					0.32	5.60
D1639	0.17	116	32	24.58	6.00	10.93	8.50	3.06	4.50	0.00	1.44	0.00	1.00	13.00	20.00	6	48	9	3	1	3.24	PS					0.17	2.21
D1639	3.52	116	32U	24.58	6.00	10.93	8.50	3.06	4.50	0.00	1.44	0.00	1.00	13.00	20.00	6	48	9	3	1	3.24	PS					3.52	45.76
pp135*	3.01	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.01	0.00
pp138*	18.18	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					18.18	0.00
pp234*	9.51	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					9.51	0.00
pp289*	19.90	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					19.90	0.00
pp921*	0.45	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
	228.41																						**16.76**	**838.00**	**0.00**	**0.00**	**207.87**	**3,782.67**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D1613	2009	69743	Southern Training Area Infrastructure-Maneuver Area					13.37	167.13
D1614	2009	69743	Southern Training Area Infrastructure-Maneuver Area					6.09	88.31
D1616	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.39	30.58
D1624	2009	69743	Southern Training Area Infrastructure-Maneuver Area					18.50	619.75
D1634	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.64	11.20
pp135*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					3.01	0.00
pp138*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.85	0.00
pp289*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					3.05	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**47.90**	**916.97**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**16.76**	**838.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**159.97**	**2,865.70**
TOTAL	**176.73**	**3,703.70**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
11 = Longleaf Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21U = Longleaf Pine Underplanted
25 = Mixed Pine
26 = Mixed Pine-Longleaf
26U = Mixed Pine-Longleaf Underplanted
31 = Shortleaf Pine
31U = Shortleaf Pine Underplanted
32 = Loblolly Pine
32U = Loblolly Pine Underplanted

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-99. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D16-02**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D0614	13.51	94	25	25.39	6.00	5.33	4.00	14.99	25.00	6.55	5.59	1.49	6.50	29.00	41.50	2	40	26	3	1	0					13.51	391.79
D0618	18.44	67	25	29.44	6.00	7.67	5.50	8.34	13.00	13.36	3.29	0.86	3.50	18.50	28.00	6	26	21	3	1	0					18.44	341.14
D0623	28.14	46	25	59.39	17.00	20.72	14.50	9.67	13.50	23.65	5.81	0.74	5.50	28.00	50.50	2	29	18	3	1	0					28.14	787.92
D0628	0.67	71	41**	10.27	2.50	2.75	2.00	10.45	18.00	21.11	18.56	23.89	59.50	20.00	82.00	7	15	76	3	1	0					0.00	0.00
D0634	11.26	37	31	56.38	13.00	7.63	5.00	4.47	5.50	31.33	2.74	4.22	9.00	10.50	32.50	6	24	37	3	1	0					11.26	118.23
D0704	16.58	42	25	68.39	18.50	16.04	11.50	4.49	5.50	2.48	0.00	0.37	1.00	17.00	36.50	1	35	2	3	1	0					16.58	281.86
D1012	1.40	20	31	61.60	16.67	5.77	5.00	1.41	1.67	18.82	0.00	0.00	0.00	6.67	23.33	1	35	0	3	1	0					1.40	9.34
D1020	5.19	63	25	7.14	1.58	10.21	8.42	16.55	23.68	7.65	3.82	1.86	5.26	32.11	38.95	1	36	17	3	1	1	5.19	166.65				
D1613	5.91	57	31	33.99	8.00	9.17	6.50	3.89	6.00	2.17	0.86	3.40	6.00	12.50	26.50	7	27	25	3	1	0					5.91	73.88
D1632	8.18	56	21	65.54	13.75	6.21	5.00	6.66	8.75	5.77	1.38	0.73	2.50	13.75	30.00	6	26	14	3	1	0					8.18	112.48
D1634	14.49	64	26	30.30	8.00	5.51	4.00	8.62	13.50	15.53	5.35	2.52	7.50	17.50	33.00	6	31	36	3	1	0					14.49	253.58
D1634	0.15	64	26U	30.30	8.00	5.51	4.00	8.62	13.50	15.53	5.35	2.52	7.50	17.50	33.00	6	31	36	3	1	0					0.15	2.63
D1639	0.34	116	32	24.58	6.00	10.93	8.50	3.06	4.50	0.00	1.44	0.00	1.00	13.00	20.00	6	48	9	3	1	0					0.34	4.42
D1639	14.82	116	32U	24.58	6.00	10.93	8.50	3.06	4.50	0.00	1.44	0.00	1.00	13.00	20.00	6	48	9	3	1	0					14.82	192.66
D1641	21.12	53	31	73.90	15.50	4.06	3.00	10.25	17.50	2.65	4.96	1.04	5.00	20.50	41.00	1	28	30	3	1	0					21.12	432.96
D1644	10.96	64	32	27.79	8.00	15.50	10.50	8.11	11.50	8.00	3.39	1.50	5.00	22.00	35.00	6	38	17	3	1	0					10.96	241.12
D1725	8.06	22	31	66.56	18.00	17.74	12.00	5.68	8.00	2.17	0.68	1.09	2.50	20.00	40.50	6	37	7	3	1	0					8.06	161.20
D1735	0.81	54	31	20.51	5.00	10.41	7.50	9.73	15.50	3.92	5.04	5.32	14.50	23.00	42.50	5	25	34	3	1	0					0.81	18.63
D1738	11.36	57	25	12.56	4.00	17.71	14.00	16.33	22.00	2.54	3.39	1.20	5.50	36.00	45.50	1	29	12	3	1	1	11.36	408.96				
pp137*	1.39	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.39	0.00
pp235*	2.01	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.01	0.00
pp290*	12.59	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					12.59	0.00
pp291*	4.69	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					4.69	0.00
pp292*	9.20	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					9.20	0.00
pp732*	2.13	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.13	0.00
pp733*	3.36	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.36	0.00
pp734*	0.15	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.15	0.00
	226.91																					**16.55**	**575.61**	**0.00**	**0.00**	**209.69**	**3,423.84**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D0614	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					4.99	144.71
D0614	2009	69743	Southern Training Area Infrastructure-Maneuver Area					7.50	217.50
D0618	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.58	10.73
D0623	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trail					6.91	193.48
D0623	2009	69743	Southern Training Area Infrastructure-Maneuver Area					16.32	456.96
D0634	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.79	18.80
D0634	2009	69743	Southern Training Area Infrastructure-Maneuver Area					9.47	99.44
D0704	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					4.49	76.33
D0704	2009	69743	Southern Training Area Infrastructure-Maneuver Area					12.10	205.70
D1012	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.98	6.54
D1012	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.42	2.80
D1020	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	1.20	38.53				
D1020	2009	69743	Southern Training Area Infrastructure-Maneuver Area	3.99	128.12				
D1613	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.84	23.00
D1613	2009	69743	Southern Training Area Infrastructure-Maneuver Area					4.06	50.75
D1632	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.16	2.20
D1632	2009	69743	Southern Training Area Infrastructure-Maneuver Area					8.01	110.14
D1634	2009	69743	Southern Training Area Infrastructure-Maneuver Area					5.94	103.95
D1639	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.03	0.39
D1641	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					5.25	107.63
D1641	2009	69743	Southern Training Area Infrastructure-Maneuver Area					15.63	320.42
D1641	2009	69743	Southern Training Area Infrastructure-Urban Training Site					0.24	4.92
D1644	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.60	35.20
D1644	2009	69743	Southern Training Area Infrastructure-Maneuver Area					9.36	205.92
D1725	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.85	37.00
D1725	2009	69743	Southern Training Area Infrastructure-Maneuver Area					6.21	124.20
D1735	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.81	18.63
D1738	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	2.51	90.36				
D1738	2009	69743	Southern Training Area Infrastructure-Maneuver Are	8.85	318.60				
pp137*	2009	69743	Southern Training Area Infrastructure-Maneuver Are					1.30	0.00
pp235*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.30	0.00
pp290*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					12.20	0.00
pp291*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					4.15	0.00
pp292*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					2.68	0.00
pp292*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					6.53	0.00
pp732*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.66	0.00
pp732*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.32	0.00
pp733*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.01	0.00
pp733*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					3.35	0.00
pp734*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.02	0.00
			TOTAL REMOVALS	**16.55**	**575.61**	**0.00**	**0.00**	**159.06**	**2,577.34**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
26U = Mixed Pine-Longleaf Underplanted
31 = Loblolly Pine
32 = Shortleaf Pine
32U = Shortleaf Pine Underplanted
41** = Cove Hardwood-Yellow Pine (managed for hardwoods)

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Stands D0614, D0618, D0623, pp137 and pp732 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition.

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**50.63**	**846.50**
SUB-TOTAL	**50.63**	**846.50**
non-contiguous habitat	**-24.03**	**-497.47**
TOTAL	**26.60**	**349.03**

Appendix Table H-100. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D16-02**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D0614	13.51	94	25	25.39	6.00	5.33	4.00	14.99	25.00	6.55	5.59	1.49	6.50	29.00	41.50	2	40	26	3	1	4.29	PS					13.51	391.79
D0618	18.44	67	25	29.44	6.00	7.67	5.50	8.34	13.00	13.36	3.29	0.86	3.50	18.50	28.00	6	26	21	3	1	3.33	PS					18.44	341.14
D0623	28.14	46	25	59.39	17.00	20.72	14.50	9.67	13.50	23.65	5.81	0.74	5.50	28.00	50.50	2	29	18	3	1	3.46	PS					28.14	787.92
D0628	0.67	71	41**	10.27	2.50	2.75	2.00	10.45	18.00	21.11	18.56	23.89	59.50	20.00	82.00	7	15	76	3	1	3.36	PS					0.00	0.00
D0634	11.26	37	31	56.38	13.00	7.63	5.00	4.47	5.50	31.33	2.74	4.22	9.00	10.50	32.50	6	24	37	3	1	2.44	PS					11.26	118.23
D0704	16.58	42	25	68.39	18.50	16.04	11.50	4.49	5.50	2.48	0.00	0.37	1.00	17.00	36.50	1	35	2	3	1	3.14	PS					16.58	281.86
D1012	1.40	20	31	61.60	16.67	5.77	5.00	1.41	1.67	18.82	0.00	0.00	0.00	6.67	23.33	1	35	0	3	1	2.72	NH					1.40	9.34
D1020	5.19	63	25	7.14	1.58	10.21	8.42	16.55	23.68	7.65	3.82	1.86	5.26	32.11	38.95	1	36	17	3	1	4.37	PS					5.19	166.65
D1613	5.91	57	31	33.99	8.00	9.17	6.50	3.89	6.00	2.17	0.86	3.40	6.00	12.50	26.50	7	27	25	3	1	2.71	PS					5.91	73.88
D1632	8.18	56	21	65.54	13.75	6.21	5.00	6.66	8.75	5.77	1.38	0.73	2.50	13.75	30.00	6	26	14	3	1	3.06	PS					8.18	112.48
D1634	14.49	64	26	30.30	8.00	5.51	4.00	8.62	13.50	15.53	5.35	2.52	7.50	17.50	33.00	6	31	36	3	1	3.30	PS					14.49	253.58
D1634	0.15	64	26U	30.30	8.00	5.51	4.00	8.62	13.50	15.53	5.35	2.52	7.50	17.50	33.00	6	31	36	3	1	3.30	PS					0.15	2.63
D1639	0.34	116	32	24.58	6.00	10.93	8.50	3.06	4.50	0.00	1.44	0.00	1.00	13.00	20.00	6	48	9	3	1	3.24	PS					0.34	4.42
D1639	14.82	116	32U	24.58	6.00	10.93	8.50	3.06	4.50	0.00	1.44	0.00	1.00	13.00	20.00	6	48	9	3	1	3.24	PS					14.82	192.66
D1641	21.12	53	31	73.90	15.50	4.06	3.00	10.25	17.50	2.65	4.96	1.04	5.00	20.50	41.00	1	28	30	3	1	3.65	PS					21.12	432.96
D1644	10.96	64	32	27.79	8.00	15.50	10.50	8.11	11.50	8.00	3.39	1.50	5.00	22.00	35.00	6	38	17	3	1	3.48	PS					10.96	241.12
D1725	8.06	22	31	66.56	18.00	17.74	12.00	5.68	8.00	2.17	0.68	1.09	2.50	20.00	40.50	6	37	7	3	1	2.84	NH					8.06	161.20
D1735	0.81	54	31	20.51	5.00	10.41	7.50	9.73	15.50	3.92	5.04	5.32	14.50	23.00	42.50	5	25	34	3	1	3.42	PS					0.81	18.63
D1738	11.36	57	25	12.56	4.00	17.71	14.00	16.33	22.00	2.54	3.39	1.20	5.50	36.00	45.50	1	29	12	3	1	4.24	PS					11.36	408.96
pp137*	1.39	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.39	0.00
pp235*	2.01	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.01	0.00
pp290*	12.59	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					12.59	0.00
pp291*	4.69	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					4.69	0.00
pp292*	9.20	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					9.20	0.00
pp732*	2.13	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.13	0.00
pp733*	3.36	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.36	0.00
pp734*	0.15	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.15	0.00
	226.91																						**0.00**	**0.00**	**0.00**	**0.00**	**226.24**	**3,999.45**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D0614	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					4.99	144.71
D0614	2009	69743	Southern Training Area Infrastructure-Maneuver Area					7.50	217.50
D0618	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.58	10.73
D0623	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					6.91	193.48
D0623	2009	69743	Southern Training Area Infrastructure-Maneuver Area					16.32	456.96
D0634	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.79	18.80
D0634	2009	69743	Southern Training Area Infrastructure-Maneuver Area					9.47	99.44
D0704	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					4.49	76.33
D0704	2009	69743	Southern Training Area Infrastructure-Maneuver Area					12.10	205.70
D1012	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.98	6.54
D1012	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.42	2.80
D1020	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.20	38.53
D1020	2009	69743	Southern Training Area Infrastructure-Maneuver Area					3.99	128.12
D1613	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.84	23.00
D1613	2009	69743	Southern Training Area Infrastructure-Maneuver Area					4.06	50.75
D1632	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.16	2.20
D1632	2009	69743	Southern Training Area Infrastructure-Maneuver Area					8.01	110.14
D1634	2009	69743	Southern Training Area Infrastructure-Maneuver Area					5.94	103.95
D1639	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.03	0.39
D1641	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					5.25	107.63
D1641	2009	69743	Southern Training Area Infrastructure-Maneuver Area					15.63	320.42
D1641	2009	69743	Southern Training Area Infrastructure-Urban Training Site					0.24	4.92
D1644	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.60	35.20
D1644	2009	69743	Southern Training Area Infrastructure-Maneuver Area					9.36	205.92
D1725	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.85	37.00
D1725	2009	69743	Southern Training Area Infrastructure-Maneuver Area					6.21	124.20
D1735	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.81	18.63
D1738	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					2.51	90.36
D1738	2009	69743	Southern Training Area Infrastructure-Maneuver Area					8.85	318.60
pp137*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.30	0.00
pp235*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.30	0.00
pp290*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					12.20	0.00
pp291*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					4.15	0.00
pp292*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					2.68	0.00
pp292*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					6.53	0.00
pp732*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.66	0.00
pp732*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.32	0.00
pp733*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.01	0.00
pp733*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					3.35	0.00
pp734*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.02	0.00
			TOTAL REM	**0.00**	**0.00**	**0.00**	**0.00**	**175.61**	**3,152.95**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
26U = Mixed Pine-Longleaf Underplanted
31 = Loblolly Pine
32 = Shortleaf Pine
32U = Shortleaf Pine Underplanted
41** = Cove Hardwood-Yellow Pine (managed for hardwoods)

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Stands D0614, D0618, D0623, pp137 and pp732 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition.

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**50.63**	**846.50**
SUB-TOTAL	**50.63**	**846.50**
non-contiguous habitat	**-24.03**	**-497.47**
TOTAL	**26.60**	**349.03**

APPENDIX H

RED-COCKADED WOODPECKER (RCW) FORAGING ANALYSIS TABLES FOR THE STANDARD FOR MANAGED STABILITY (SMS) AND RECOVERY STANDARDS (RS), ALTERNATIVES A AND B, MANEUVER CENTER OF EXCELLENCE PROJECTS

Appendix Table H-101. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D17-01 Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D0704	1.75	42	25	68.39	18.50	16.04	11.50	4.49	5.50	2.48	0.00	0.37	1.00	17.00	36.50	1	35	2	3	1	0					1.75	29.75
D0705	1.97	80	25	13.01	4.00	7.19	6.00	8.05	12.00	0.00	0.00	3.22	4.00	18.00	26.00	2	24	17	3	1	0					1.97	35.46
D1008	17.87	71	31	23.46	6.00	16.29	12.50	16.22	25.00	3.03	2.13	1.53	4.00	37.50	47.50	1	41	10	3	1	1	17.87	670.13				
D1009	10.52	71	31	29.76	8.50	11.08	8.00	15.99	22.50	7.26	3.43	0.66	3.50	30.50	42.50	6	34	13	3	1	0			10.52	320.86		
D1010	34.49	64	25	0.00	0.00	15.99	12.50	22.57	31.00	10.96	3.90	1.49	5.50	43.50	49.00	1	44	12	3	1	1	34.49	1,500.32				
D1012	4.43	20	31	61.60	16.67	5.77	5.00	1.41	1.67	18.82	0.00	0.00	0.00	6.67	23.33	1	35	0	3	1	0					4.43	29.55
D1016	24.70	85	13	9.97	2.50	2.21	1.50	8.97	17.50	14.38	12.87	8.22	26.00	19.00	47.50	5	22	65	3	1	0					24.70	469.30
D1020	68.28	63	25	7.14	1.58	10.21	8.42	16.55	23.68	7.65	3.82	1.86	5.26	32.11	38.95	1	36	17	3	1	1	68.28	2,192.47				
D1641	3.34	53	31	73.90	15.50	4.06	3.00	10.25	17.50	2.65	4.96	1.04	5.00	20.50	41.00	1	28	30	3	1	0					3.34	68.47
D1724	2.55	46	10	57.98	16.00	17.19	11.50	5.58	7.00	11.40	6.42	2.24	7.50	18.50	42.00	1	42	28	3	1	0					0.00	0.00
D1725	2.70	22	31	66.56	18.00	17.74	12.00	5.68	8.00	2.17	0.68	1.09	2.50	20.00	40.50	6	37	7	3	1	0					2.70	54.00
D1733	10.56	73	31	16.19	4.50	14.50	10.00	12.57	19.00	7.27	4.84	2.20	7.50	29.00	41.00	2	23	21	3	1	0					10.56	306.24
D1735	28.81	54	31	20.51	5.00	10.41	7.50	9.73	15.50	3.92	5.04	5.32	14.50	23.00	42.50	5	25	34	3	1	0					28.81	662.63
D1738	13.39	57	25	12.56	4.00	17.71	14.00	16.33	22.00	2.54	3.39	1.20	5.50	36.00	45.50	1	29	12	3	1	1	13.39	482.04				
pp136*	2.36	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.36	0.00
pp231*	5.16	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp232*	1.99	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.99	0.00
pp283*	2.75	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.75	0.00
pp284*	31.38	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					31.38	0.00
pp371*	10.65	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					10.65	0.00
pp402*	21.12	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					21.12	0.00
pp435*	11.84	13	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					11.84	0.00
pp436*	0.09	13	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.09	0.00
pp803*	0.07	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
	312.77																					**134.03**	**4,844.96**	**10.52**	**320.86**	**160.44**	**1,655.40**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D0704	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.58	9.86
D1008	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	5.19	194.63				
D1008	2009	69743	Southern Training Area Infrastructure-Maneuver Area	7.41	277.88				
D1010	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	4.26	185.31				
D1010	2009	69743	Southern Training Area Infrastructure-Maneuver Area	15.06	655.11				
D1010	2009	69743	Southern Training Area Infrastructure-Urban Training Site	1.17	50.90				
D1012	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.94	6.27
D1012	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.57	10.47
D1012	2009	69743	Southern Training Area Infrastructure-Urban Training Site					1.92	12.81
D1016	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.90	17.10
D1016	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.43	46.17
D1020	2009	69743	Southern Training Area Infrastructure-Maneuver Area	15.09	484.54				
D1641	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.59	12.10
D1641	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.56	11.48
D1641	2009	69743	Southern Training Area Infrastructure-Urban Training Site					2.19	44.90
D1733	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.03	29.87
D1733	2009	69743	Southern Training Area Infrastructure-Maneuver Area					4.85	140.65
D1735	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.39	31.97
D1735	2009	69743	Southern Training Area Infrastructure-Maneuver Area					10.52	241.96
D1738	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	1.26	45.36				
D1738	2009	69743	Southern Training Area Infrastructure-Maneuver Area	8.83	317.88				
D1738	2009	69743	Southern Training Area Infrastructure-Urban Training Site	1.46	52.56				
pp136*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.27	0.00
pp283*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.63	0.00
pp283*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.12	0.00
pp284*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.05	0.00
			TOTAL REMOVALS	**59.73**	**2,264.17**	**0.00**	**0.00**	**34.54**	**615.61**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21P = Longleaf Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Stands D1725, D1773, and D1735 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition.

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**74.30**	**2,580.79**
Potentially Suitable Habitat	**10.52**	**320.86**
Future Potential Habitat	**125.90**	**1,039.79**
SUB-TOTAL	**210.72**	**3,941.44**
non-contiguous habitat	**-24.28**	**-578.42**
TOTAL	**186.44**	**3,363.02**

Appendix Table H-102. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D17-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D0704	1.75	42	25	68.39	18.50	16.04	11.50	4.49	5.50	2.48	0.00	0.37	1.00	17.00	36.50	1	35	2	3	1	3.14	PS					1.75	29.75
D0705	1.97	80	25	13.01	4.00	7.19	6.00	8.05	12.00	0.00	0.00	3.22	4.00	18.00	26.00	2	24	17	3	1	3.58	PS					1.97	35.46
D1008	17.87	71	31	23.46	6.00	16.29	12.50	16.22	25.00	3.03	2.13	1.53	4.00	37.50	47.50	1	41	10	3	1	4.57	PS					17.87	670.13
D1009	10.52	71	31	29.76	8.50	11.08	8.00	15.99	22.50	7.26	3.43	0.66	3.50	30.50	42.50	6	34	13	3	1	4.18	PS					10.52	320.86
D1010	34.49	64	25	0.00	0.00	15.99	12.50	22.57	31.00	10.96	3.90	1.49	5.50	43.50	49.00	1	44	12	3	1	4.79	CS	34.49	1,500.32				
D1012	4.43	20	31	61.60	16.67	5.77	5.00	1.41	1.67	18.82	0.00	0.00	0.00	6.67	23.33	1	35	0	3	1	2.72	NH					4.43	29.55
D1016	24.70	85	13	9.97	2.50	2.21	1.50	8.97	17.50	14.38	12.87	8.22	26.00	19.00	47.50	5	22	65	3	1	3.22	PS					24.70	469.30
D1020	68.28	63	25	7.14	1.58	10.21	8.42	16.55	23.68	7.65	3.82	1.86	5.26	32.11	38.95	1	36	17	3	1	4.37	PS					68.28	2,192.47
D1641	3.34	53	31	73.90	15.50	4.06	3.00	10.25	17.50	2.65	4.96	1.04	5.00	20.50	41.00	1	28	30	3	1	3.65	PS					3.34	68.47
D1724	2.55	46	10	57.98	16.00	17.19	11.50	5.58	7.00	11.40	6.42	2.24	7.50	18.50	42.00	1	42	28	3	1	3.20	PS					0.00	0.00
D1725	2.70	22	31	66.56	18.00	17.74	12.00	5.68	8.00	2.17	0.68	1.09	2.50	20.00	40.50	6	37	7	3	1	2.84	NH					2.70	54.00
D1733	10.56	73	31	16.19	4.50	14.50	10.00	12.57	19.00	7.27	4.84	2.20	7.50	29.00	41.00	2	23	21	3	1	3.98	PS					10.56	306.24
D1735	28.81	54	31	20.51	5.00	10.41	7.50	9.73	15.50	3.92	5.04	5.32	14.50	23.00	42.50	5	25	34	3	1	3.42	PS					28.81	662.63
D1738	13.39	57	25	12.56	4.00	17.71	14.00	16.33	22.00	2.54	3.39	1.20	5.50	36.00	45.50	1	29	12	3	1	4.24	PS					13.39	482.04
pp136*	2.36	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.36	0.00
pp231*	5.16	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp232*	1.99	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.99	0.00
pp283*	2.75	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.75	0.00
pp284*	31.38	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					31.38	0.00
pp371*	10.65	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					10.65	0.00
pp402*	21.12	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					21.12	0.00
pp435*	11.84	13	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					11.84	0.00
pp436*	0.09	13	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.09	0.00
pp803*	0.07	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
	312.77																						**34.49**	**1,500.32**	**0.00**	**0.00**	**270.50**	**5,320.90**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D0704	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.58	9.86
D1008	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					5.19	194.63
D1008	2009	69743	Southern Training Area Infrastructure-Maneuver Area					7.41	277.88
D1010	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	4.26	185.31				
D1010	2009	69743	Southern Training Area Infrastructure-Maneuver Area	15.06	655.11				
D1010	2009	69743	Southern Training Area Infrastructure-Urban Training Site	1.17	50.90				
D1012	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.94	6.27
D1012	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.57	10.47
D1012	2009	69743	Southern Training Area Infrastructure-Urban Training Site					1.92	12.81
D1016	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.90	17.10
D1016	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.43	46.17
D1020	2009	69743	Southern Training Area Infrastructure-Maneuver Area					15.09	484.54
D1641	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.59	12.10
D1641	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.56	11.48
D1641	2009	69743	Southern Training Area Infrastructure-Urban Training Site					2.19	44.90
D1733	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.03	29.87
D1733	2009	69743	Southern Training Area Infrastructure-Maneuver Area					4.85	140.65
D1735	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.39	31.97
D1735	2009	69743	Southern Training Area Infrastructure-Maneuver Area					10.52	241.96
D1738	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.26	45.36
D1738	2009	69743	Southern Training Area Infrastructure-Maneuver Area					8.83	317.88
D1738	2009	69743	Southern Training Area Infrastructure-Urban Training Site					1.46	52.56
pp136*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.27	0.00
pp283*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.63	0.00
pp283*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.12	0.00
pp284*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.05	0.00
			TOTAL REMOVALS	**20.49**	**891.32**	**0.00**	**0.00**	**73.78**	**1,988.46**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21P = Longleaf Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Stands D1725, D1773, and D1735 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition.

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**14.00**	**609.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**196.72**	**3,332.44**
SUB-TOTAL	**210.72**	**3,941.44**
non-contiguous habitat	**-24.28**	**-578.42**
TOTAL	**186.44**	**3,363.02**

Appendix Table H-103. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D17-03, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D1114	3.50	57	26	13.70	4.00	5.66	4.00	14.40	24.00	8.13	6.30	2.53	8.00	28.00	40.00	1	41	31	3	1	0					3.50	98.00
D1240	5.82	54	26	17.40	4.50	6.42	5.00	13.82	21.50	4.80	2.21	1.99	5.00	26.50	36.00	1	40	17	3	1	0					5.82	154.23
D1241	0.12	57	26	7.30	2.00	13.36	9.50	12.06	19.00	18.20	4.44	3.53	8.00	28.50	38.50	1	38	24	3	1	0					0.12	3.42
D1613	16.01	57	31	33.99	8.00	9.17	6.50	3.89	6.00	2.17	0.86	3.40	6.00	12.50	26.50	7	27	25	3	1	0					16.01	200.13
D1709	9.96	70	31	30.88	7.00	9.47	7.50	12.89	20.50	0.00	4.12	0.58	3.50	28.00	38.50	2	40	17	3	1	0					9.96	278.88
D1712	28.52	80	21	28.01	7.50	20.18	15.50	17.01	25.00	15.71	4.28	0.24	4.00	40.50	52.00	1	39	11	3	1	1	28.52	1,155.06				
D1713	22.91	80	26	9.21	3.00	12.16	9.50	10.25	15.00	1.47	0.90	1.02	3.00	24.50	30.50	1	49	8	3	1	0					22.91	561.30
D1714	13.00	80	21	15.27	5.00	26.21	18.50	18.46	27.50	1.04	1.15	1.47	3.50	46.00	54.50	1	28	6	3	1	1	13.00	598.00				
D1715	10.05	64	31	23.65	6.50	10.14	8.00	17.58	27.00	0.00	0.00	2.13	3.00	35.00	44.50	1	50	7	3	1	1	10.05	351.75				
D1716	9.71	86	25	45.18	11.00	7.34	5.50	15.81	27.00	8.10	0.54	0.00	0.50	32.50	44.00	1	41	2	3	1	1	9.71	315.58				
D1718	52.81	68	31	1.21	0.50	9.38	7.00	16.71	27.50	7.62	1.48	0.63	2.00	34.50	37.00	2	51	7	3	1	1	52.81	1,821.95				
D1722	1.92	50	25	123.03	33.00	18.77	12.50	3.28	4.50	14.06	1.43	2.32	5.50	17.00	55.50	1	40	15	3	1	0					1.92	32.64
D1724	11.16	46	10	57.98	16.00	17.19	11.50	5.58	7.00	11.40	6.42	2.24	7.50	18.50	42.00	1	42	28	3	1	0					11.16	206.46
D1725	12.35	22	31	66.56	18.00	17.74	12.00	5.68	8.00	2.17	0.68	1.09	2.50	20.00	40.50	6	37	7	3	1	0					12.35	247.00
pp803*	5.87	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.87	0.00
	203.71																					**114.09**	**4,242.34**	**0.00**	**0.00**	**89.62**	**1,782.06**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D1114	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.04	29.12
D1240	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.86	49.29
D1613	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					4.08	51.00
D1613	2009	69743	Southern Training Area Infrastructure-Maneuver Area					11.94	149.25
D1709	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					2.61	73.08
D1709	2009	69743	Southern Training Area Infrastructure-Maneuver Area					7.35	205.80
D1712	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	3.28	132.84				
D1713	2009	69743	Southern Training Area Infrastructure-Maneuver Area					7.91	193.80
D1714	2009	69743	Southern Training Area Infrastructure-Maneuver Area	12.81	589.26				
D1715	2009	69743	Southern Training Area Infrastructure-Maneuver Area	10.05	351.75				
D1718	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	2.15	74.18				
D1718	2009	69743	Southern Training Area Infrastructure-Maneuver Area	34.01	1,173.35				
D1724	2009	69743	Southern Training Area Infrastructure-Maneuver Area					7.07	130.80
D1725	2009	69743	Southern Training Area Infrastructure-Maneuver Area					8.27	165.40
pp803*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.28	0.00
			TOTAL REMOVALS	**62.30**	**2,321.38**	**0.00**	**0.00**	**52.41**	**1,047.54**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**51.79**	**1,920.96**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**37.21**	**734.52**
TOTAL	**89.00**	**2,655.48**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-104. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D17-03**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D1114	3.50	57	26	13.70	4.00	5.66	4.00	14.40	24.00	8.13	6.30	2.53	8.00	28.00	40.00	1	41	31	3	1	4.20	PS					3.50	98.00
D1240	5.82	54	26	17.40	4.50	6.42	5.00	13.82	21.50	4.80	2.21	1.99	5.00	26.50	36.00	1	40	17	3	1	4.28	PS					5.82	154.23
D1241	0.12	57	26	7.30	2.00	13.36	9.50	12.06	19.00	18.20	4.44	3.53	8.00	28.50	38.50	1	38	24	3	1	3.87	PS					0.12	3.42
D1613	16.01	57	31	33.99	8.00	9.17	6.50	3.89	6.00	2.17	0.86	3.40	6.00	12.50	26.50	7	27	25	3	1	2.71	PS					16.01	200.13
D1709	9.96	70	31	30.88	7.00	9.47	7.50	12.89	20.50	0.00	4.12	0.58	3.50	28.00	38.50	2	40	17	3	1	4.19	PS					9.96	278.88
D1712	28.52	80	21	28.01	7.50	20.18	15.50	17.01	25.00	15.71	4.28	0.24	4.00	40.50	52.00	1	39	11	3	1	4.51	PS					28.52	1,155.06
D1713	22.91	80	26	9.21	3.00	12.16	9.50	10.25	15.00	1.47	0.90	1.02	3.00	24.50	30.50	1	49	8	3	1	4.25	PS					22.91	561.30
D1714	13.00	80	21	15.27	5.00	26.21	18.50	18.46	27.50	1.04	1.15	1.47	3.50	46.00	54.50	1	28	6	3	1	4.65	CS	13.00	598.00				
D1715	10.05	64	31	23.65	6.50	10.14	8.00	17.58	27.00	0.00	0.00	2.13	3.00	35.00	44.50	1	50	7	3	1	4.63	PS					10.05	351.75
D1716	9.71	86	25	45.18	11.00	7.34	5.50	15.81	27.00	8.10	0.54	0.00	0.50	32.50	44.00	1	41	2	3	1	4.52	PS					9.71	315.58
D1718	52.81	68	31	1.21	0.50	9.38	7.00	16.71	27.50	7.62	1.48	0.63	2.00	34.50	37.00	2	51	7	3	1	4.65	PS					52.81	1,821.95
D1722	1.92	50	25	123.03	33.00	18.77	12.50	3.28	4.50	14.06	1.43	2.32	5.50	17.00	55.50	1	40	15	3	1	3.03	PS					1.92	32.64
D1724	11.16	46	10	57.98	16.00	17.19	11.50	5.58	7.00	11.40	6.42	2.24	7.50	18.50	42.00	1	42	28	3	1	3.20	PS					11.16	206.46
D1725	12.35	22	31	66.56	18.00	17.74	12.00	5.68	8.00	2.17	0.68	1.09	2.50	20.00	40.50	6	37	7	3	1	2.84	NH					12.35	247.00
pp803*	5.87	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					5.87	0.00
	203.71																						**13.00**	**598.00**	**0.00**	**0.00**	**190.71**	**5,426.40**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D1114	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.04	29.12
D1240	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.86	49.29
D1613	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					4.08	51.00
D1613	2009	69743	Southern Training Area Infrastructure-Maneuver Area					11.94	149.25
D1709	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					2.61	73.08
D1709	2009	69743	Southern Training Area Infrastructure-Maneuver Area					7.35	205.80
D1712	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					3.28	132.84
D1713	2009	69743	Southern Training Area Infrastructure-Maneuver Area					7.91	193.80
D1714	2009	69743	Southern Training Area Infrastructure-Maneuver Area	12.81	589.26				
D1715	2009	69743	Southern Training Area Infrastructure-Maneuver Area					10.05	351.75
D1718	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					2.15	74.18
D1718	2009	69743	Southern Training Area Infrastructure-Maneuver Area					34.01	1,173.35
D1724	2009	69743	Southern Training Area Infrastructure-Maneuver Area					7.07	130.80
D1725	2009	69743	Southern Training Area Infrastructure-Maneuver Area					8.27	165.40
pp803*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.28	0.00
			TOTAL REMOVALS	**12.81**	**589.26**	**0.00**	**0.00**	**101.90**	**2,779.66**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.19**	**8.74**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**88.81**	**2,646.74**
TOTAL	**89.00**	**2,655.48**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-105. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D17-04R Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D1237	10.88	63	31	32.52	6.50	5.54	4.50	8.74	15.50	2.17	0.67	0.99	2.00	20.00	28.50	1	44	10	3	1	0					10.88	217.60
D1241	12.28	57	26	7.30	2.00	13.36	9.50	12.06	19.00	18.20	4.44	3.53	8.00	28.50	38.50	1	38	24	3	1	0					12.28	349.98
D1613	9.35	57	31	33.99	8.00	9.17	6.50	3.89	6.00	2.17	0.86	3.40	6.00	12.50	26.50	7	27	25	3	1	0					9.35	116.88
D1702	15.50	62	21	16.46	5.00	8.74	6.50	10.32	16.00	5.57	13.06	4.26	14.50	22.50	42.00	1	24	48	3	1	0					15.50	348.75
D1704	10.48	62	21	13.24	5.00	18.04	13.00	16.90	24.50	13.62	4.99	2.59	8.00	37.50	50.50	1	20	18	3	1	1	10.48	393.00				
D1705	0.84	62	57**	15.59	4.00	2.61	1.50	3.17	4.50	3.65	6.40	3.69	10.00	6.00	20.00	1	28	64	3	1	0					0.00	0.00
D1706	29.73	63	21	18.27	4.50	15.77	11.00	19.87	31.50	3.73	1.80	0.43	2.50	42.50	49.50	1	23	6	3	1	1	29.73	1,263.53				
D1707	20.45	63	26	16.20	4.00	22.78	16.00	15.48	20.50	17.44	3.79	0.89	4.00	36.50	44.50	1	22	11	3	1	1	20.45	746.43				
D1709	25.22	70	31	30.88	7.00	9.47	7.50	12.89	20.50	0.00	4.12	0.58	3.50	28.00	38.50	2	40	17	3	1	0					25.22	706.16
D1711	10.97	62	26	64.28	17.50	22.44	15.50	10.48	17.00	3.64	2.65	1.56	4.00	32.50	54.00	1	31	11	3	1	1	10.97	356.53				
D1712	11.32	80	21	28.01	7.50	20.18	15.50	17.01	25.00	15.71	4.28	0.24	4.00	40.50	52.00	1	39	11	3	1	1	11.32	458.46				
D1713	5.15	80	26	9.21	3.00	12.16	9.50	10.25	15.00	1.47	0.90	1.02	3.00	24.50	30.50	1	49	8	3	1	0					5.15	126.18
D1714	4.82	80	21	15.27	5.00	26.21	18.50	18.46	27.50	1.04	1.15	1.47	3.50	46.00	54.50	1	28	6	3	1	1	4.82	221.72				
D1715	3.02	64	31	23.65	6.50	10.14	8.00	17.58	27.00	0.00	0.00	2.13	3.00	35.00	44.50	1	50	7	3	1	1	3.02	105.70				
pp134*	1.98	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.98	0.00
pp609*	21.44	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					21.44	0.00
	193.43																					**90.79**	**3,545.37**	**0.00**	**0.00**	**101.80**	**1,865.55**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D1237	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.56	31.20
D1241	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					3.51	100.04
D1613	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					2.33	29.13
D1613	2009	69743	Southern Training Area Infrastructure-Maneuver Area					7.02	87.75
D1702	2009	69743	Southern Training Area Infrastructure-Maneuver Area					14.80	333.00
D1704	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	0.85	31.88				
D1704	2009	69743	Southern Training Area Infrastructure-Maneuver Area	8.00	300.00				
D1706	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	5.20	221.00				
D1707	2009	69743	Southern Training Area Infrastructure-Maneuver Area	9.45	344.93				
D1709	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					3.07	85.96
D1709	2009	69743	Southern Training Area Infrastructure-Maneuver Area					22.15	620.20
D1711	2009	69743	Southern Training Area Infrastructure-Maneuver Area	10.84	352.30				
D1712	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	1.45	58.73				
D1713	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.01	0.25
D1714	2009	69743	Southern Training Area Infrastructure-Maneuver Area	4.42	203.32				
D1715	2009	69743	Southern Training Area Infrastructure-Maneuver Area	3.02	105.70				
			TOTAL REMOVALS	**43.23**	**1,617.86**	**0.00**	**0.00**	**54.45**	**1,287.53**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**47.56**	**1,927.51**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**47.35**	**578.02**
TOTAL	**94.91**	**2,505.53**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
57** = Scrub Oak (managed for hardwoods)

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-106. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **D17-04R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D1237	10.88	63	31	32.52	6.50	5.54	4.50	8.74	15.50	2.17	0.67	0.99	2.00	20.00	28.50	1	44	10	3	1	4.01	PS					10.88	217.60
D1241	12.28	57	26	7.30	2.00	13.36	9.50	12.06	19.00	18.20	4.44	3.53	8.00	28.50	38.50	1	38	24	3	1	3.87	PS					12.28	349.98
D1613	9.35	57	31	33.99	8.00	9.17	6.50	3.89	6.00	2.17	0.86	3.40	6.00	12.50	26.50	7	27	25	3	1	2.71	PS					9.35	116.88
D1702	15.50	62	21	16.46	5.00	8.74	6.50	10.32	16.00	5.57	13.06	4.26	14.50	22.50	42.00	1	24	48	3	1	3.80	PS					15.50	348.75
D1704	10.48	62	21	13.24	5.00	18.04	13.00	16.90	24.50	13.62	4.99	2.59	8.00	37.50	50.50	1	20	18	3	1	4.32	PS					10.48	393.00
D1705	0.84	62	57**	15.59	4.00	2.61	1.50	3.17	4.50	3.65	6.40	3.69	10.00	6.00	20.00	1	28	64	3	1	3.03	PS					0.00	0.00
D1706	29.73	63	21	18.27	4.50	15.77	11.00	19.87	31.50	3.73	1.80	0.43	2.50	42.50	49.50	1	23	6	3	1	4.65	CS	29.73	1,263.53				
D1707	20.45	63	26	16.20	4.00	22.78	16.00	15.48	20.50	17.44	3.79	0.89	4.00	36.50	44.50	1	22	11	3	1	4.38	PS					20.45	746.43
D1709	25.22	70	31	30.88	7.00	9.47	7.50	12.89	20.50	0.00	4.12	0.58	3.50	28.00	38.50	2	40	17	3	1	4.19	PS					25.22	706.16
D1711	10.97	62	26	64.28	17.50	22.44	15.50	10.48	17.00	3.64	2.65	1.56	4.00	32.50	54.00	1	31	11	3	1	4.04	PS					10.97	356.53
D1712	11.32	80	21	28.01	7.50	20.18	15.50	17.01	25.00	15.71	4.28	0.24	4.00	40.50	52.00	1	39	11	3	1	4.51	PS					11.32	458.46
D1713	5.15	80	26	9.21	3.00	12.16	9.50	10.25	15.00	1.47	0.90	1.02	3.00	24.50	30.50	1	49	8	3	1	4.25	PS					5.15	126.18
D1714	4.82	80	21	15.27	5.00	26.21	18.50	18.46	27.50	1.04	1.15	1.47	3.50	46.00	54.50	1	28	6	3	1	4.65	CS	4.82	221.72				
D1715	3.02	64	31	23.65	6.50	10.14	8.00	17.58	27.00	0.00	0.00	2.13	3.00	35.00	44.50	1	50	7	3	1	4.63	PS					3.02	105.70
pp134*	1.98	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.98	0.00
pp609*	21.44	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					21.44	0.00
	193.43																						**34.55**	**1,485.25**	**0.00**	**0.00**	**158.04**	**3,925.67**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D1237	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.56	31.20
D1241	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					3.51	100.04
D1613	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					2.33	29.13
D1613	2009	69743	Southern Training Area Infrastructure-Maneuver Area					7.02	87.75
D1702	2009	69743	Southern Training Area Infrastructure-Maneuver Area					14.80	333.00
D1704	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.85	31.88
D1704	2009	69743	Southern Training Area Infrastructure-Maneuver Area					8.00	300.00
D1706	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	5.20	221.00				
D1707	2009	69743	Southern Training Area Infrastructure-Maneuver Area					9.45	344.93
D1709	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					3.07	85.96
D1709	2009	69743	Southern Training Area Infrastructure-Maneuver Area					22.15	620.20
D1711	2009	69743	Southern Training Area Infrastructure-Maneuver Area					10.84	352.30
D1712	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.45	58.73
D1713	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.01	0.25
D1714	2009	69743	Southern Training Area Infrastructure-Maneuver Area	4.42	203.32				
D1715	2009	69743	Southern Training Area Infrastructure-Maneuver Area					3.02	105.70
			TOTAL REMOVALS	**9.62**	**424.32**	**0.00**	**0.00**	**88.06**	**2,481.07**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**24.93**	**1,060.93**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**69.98**	**1,444.60**
TOTAL	**94.91**	**2,505.53**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
57** = Scrub Oak (managed for hardwoods)

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-107. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **E02-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
E0201	73.92	62	21	18.78	5.50	13.14	9.50	13.64	21.50	0.00	1.92	3.75	7.00	31.00	43.50	2	39	17	3	1	1	73.92	2,291.52				
E0202	17.16	61	21	33.52	8.50	11.45	8.00	14.28	22.00	4.02	5.20	0.89	4.50	30.00	43.00	5	32	19	3	1	0			17.16	514.80		
E0204	9.76	51	25	26.40	7.00	15.88	11.50	12.86	23.00	10.53	2.72	3.20	7.50	34.50	49.00	2	22	17	3	1	1	9.76	336.72				
E0206	0.93	51	21	21.75	6.00	21.09	15.50	7.99	11.00	3.95	6.80	2.94	8.50	26.50	41.00	2	32	25	3	1	0					0.93	24.65
E0209	4.79	62	21	18.78	5.50	13.14	9.50	13.64	21.50	0.00	1.92	3.75	7.00	31.00	43.50	2	39	17	3	1	1	4.79	148.49				
E0801	0.92	62	26	7.69	2.50	23.00	16.50	21.46	32.00	7.66	2.79	0.80	3.50	48.50	54.50	1	37	7	3	2	1	0.92	44.62				
pp340*	1.37	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.37	0.00
pp341*	20.04	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					20.04	0.00
pp466*	28.05	16	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					28.05	0.00
pp467*	8.44	16	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					8.44	0.00
pp635	0.41	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.41	0.00
T0525	40.89	16	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
T0526	14.00	54	21	16.76	4.50	13.76	10.00	10.66	16.50	3.26	0.00	0.00	0.00	26.50	31.00	1	32	0	3	1	0					14.00	371.00
T0527	7.02	17	NM	304.15	62.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.00	1	42	0	3	1	0					0.00	0.00
T0714	1.91	42	31	40.22	11.67	16.70	12.22	13.79	20.00	4.17	1.61	1.20	2.78	32.22	46.67	5	32	8	0	0	0			1.91	61.54		
	229.61																					**89.39**	**2,821.35**	**19.07**	**576.34**	**73.24**	**395.65**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
E0201	2010	65557	Repair Existing Training Area Roads, Phase 1	0.75	23.25				
E0206	2010	65557	Repair Existing Training Area Roads, Phase 1					0.37	9.81
E0209	2010	65557	Repair Existing Training Area Roads, Phase 1	0.52	16.12				
pp340*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.60	0.00
T0714	2010	65557	Repair Existing Training Area Roads, Phase 1			0.69	22.23		
			TOTAL REMOVALS	**1.27**	**39.37**	**0.69**	**22.23**	**0.97**	**9.81**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**88.12**	**2,781.98**
Potentially Suitable Habitat	**18.38**	**554.11**
Future Potential Habitat	**72.27**	**385.84**
TOTAL	**178.77**	**3,721.93**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
NM = Not Managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-108. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **E02-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
E0201	73.92	62	21	18.78	5.50	13.14	9.50	13.64	21.50	0.00	1.92	3.75	7.00	31.00	43.50	2	39	17	3	1	4.37	PS					73.92	2,291.52
E0202	17.16	61	21	33.52	8.50	11.45	8.00	14.28	22.00	4.02	5.20	0.89	4.50	30.00	43.00	5	32	19	3	1	4.10	PS					17.16	514.80
E0204	9.76	51	25	26.40	7.00	15.88	11.50	12.86	23.00	10.53	2.72	3.20	7.50	34.50	49.00	2	22	17	3	1	4.00	PS					9.76	336.72
E0206	0.93	51	21	21.75	6.00	21.09	15.50	7.99	11.00	3.95	6.80	2.94	8.50	26.50	41.00	2	32	25	3	1	3.52	PS					0.93	24.65
E0209	4.79	62	21	18.78	5.50	13.14	9.50	13.64	21.50	0.00	1.92	3.75	7.00	31.00	43.50	2	39	17	3	1	4.37	PS					4.79	148.49
E0801	0.92	62	26	7.69	2.50	23.00	16.50	21.46	32.00	7.66	2.79	0.80	3.50	48.50	54.50	1	37	7	3	2	4.90	CS	0.92	44.62				
pp340*	1.37	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.37	0.00
pp341*	20.04	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					20.04	0.00
pp466*	28.05	16	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					28.05	0.00
pp467*	8.44	16	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					8.44	0.00
pp635	0.41	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.41	0.00
T0525	40.89	16	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
T0526	14.00	54	21	16.76	4.50	13.76	10.00	10.66	16.50	3.26	0.00	0.00	0.00	26.50	31.00	1	32	0	3	1	4.01	PS					14.00	371.00
T0527	7.02	17	NM	304.15	62.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.00	1	42	0	3	1	2.77	NH					0.00	0.00
T0714	1.91	42	31	40.22	11.67	16.70	12.22	13.79	20.00	4.17	1.61	1.20	2.78	32.22	46.67	5	32	8	0	0	3.76	PS					1.91	61.54
	229.61																						**0.92**	**44.62**	**0.00**	**0.00**	**180.78**	**3,748.72**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
E0201	2010	65557	Repair Existing Training Area Roads, Phase 1					0.75	23.25
E0206	2010	65557	Repair Existing Training Area Roads, Phase 1					0.37	9.81
E0209	2010	65557	Repair Existing Training Area Roads, Phase 1					0.52	16.12
pp340*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.60	0.00
T0714	2010	65557	Repair Existing Training Area Roads, Phase 1					0.69	22.23
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**2.93**	**71.41**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**0.92**	**44.62**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**177.85**	**3,677.31**
TOTAL	**178.77**	**3,721.93**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
NM = Not Managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-109. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **E04-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D1102	0.29	88	21	17.18	5.00	20.15	14.50	8.66	11.50	35.55	5.20	2.00	6.50	26.00	37.50	1	28	20	3	1	0					0.29	7.54
D1102	0.05	88	21U	17.18	5.00	20.15	14.50	8.66	11.50	35.55	5.20	2.00	6.50	26.00	37.50	1	28	20	3	1	0					0.05	1.30
D1109	3.86	78	31	19.55	5.50	12.80	9.00	19.33	29.50	25.87	6.42	3.70	10.50	38.50	54.50	1	26	24	3	1	1	3.86	148.61				
D1109	0.34	78	31U	19.55	5.50	12.80	9.00	19.33	29.50	25.87	6.42	3.70	10.50	38.50	54.50	1	26	24	3	1	1	0.34	13.09				
D1217	2.94	47	31	20.19	5.00	24.23	17.50	10.89	16.50	14.09	1.44	0.74	2.00	34.00	41.00	2	36	6	3	1	1	2.94	99.96				
D1225	0.32	46	10U	3.54	1.00	24.76	18.50	14.50	20.00	9.09	3.97	0.33	3.00	38.50	42.50	1	33	10	3	1	1	0.32	12.32				
D1242	14.55	46	31	5.85	2.00	18.42	13.50	11.02	17.00	11.57	4.52	3.81	8.00	30.50	40.50	1	22	22	3	1	1	14.55	443.78				
D1242	11.55	46	31U	5.85	2.00	18.42	13.50	11.02	17.00	11.57	4.52	3.81	8.00	30.50	40.50	1	22	22	3	1	1	11.55	352.28				
D1243	4.78	44	25	6.66	2.50	14.75	11.00	10.30	14.50	23.82	2.23	0.39	2.00	25.50	30.00	1	24	9	3	1	0					4.78	121.89
D1243	6.51	44	25U	6.66	2.50	14.75	11.00	10.30	14.50	23.82	2.23	0.39	2.00	25.50	30.00	1	24	9	3	1	0					6.51	166.01
E0303	19.30	19	31	25.56	7.50	30.17	21.50	18.91	26.50	11.32	3.52	3.07	7.50	48.00	63.00	1	29	12	3	1	0					19.30	926.40
E0304	11.90	19	31P	305.39	73.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.00	1	30	0	3	1	0					11.90	0.00
E0401	6.06	76	21	23.02	5.00	4.72	3.33	45.69	91.67	0.00	0.00	1.58	1.67	95.00	101.67	1	20	3	3	1	1	6.06	575.70				
E0402	39.79	76	25	17.25	3.50	11.65	8.50	17.22	27.50	10.48	2.82	2.73	7.00	36.00	46.50	1	31	16	3	1	1	39.79	1,432.44				
E0407	1.33	53	26	36.30	12.22	23.76	17.22	10.17	13.33	3.61	1.89	1.11	3.33	30.56	46.11	1	33	8	3	1	1	1.33	40.64				
pp1027*	0.17	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.17	0.00
pp855*	8.12	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					8.12	0.00
T0407	1.24	70	21	10.40	3.00	7.19	5.50	16.36	24.00	17.69	9.18	1.51	9.00	29.50	41.50	1	28	31	3	1	0					1.24	36.58
T0416	13.17	55	25	10.77	3.00	22.08	15.00	14.46	21.50	8.25	4.54	3.25	7.50	36.50	47.00	1	28	18	3	1	1	13.17	480.71				
T0507	15.64	55	25	52.56	11.50	22.15	17.00	18.40	25.50	12.90	5.00	2.89	9.00	42.50	63.00	1	36	16	3	1	1	15.64	664.70				
T0520	5.45	68	21	7.25	2.00	9.30	7.50	25.10	37.50	3.49	0.56	0.53	1.50	45.00	48.50	1	41	3	3	1	1	5.45	245.25				
	167.36																					**115.00**	**4,509.48**	**0.00**	**0.00**	**52.36**	**1,259.72**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D1102	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.33	8.58
D1102	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.01	0.26
D1109	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	1.85	71.23				
D1109	2009	69743	Southern Training Area Infrastructure-Maneuver Area	2.35	90.48				
D1242	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	3.54	107.97				
D1243	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.72	18.36
E0303	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.33	15.84
E0303	2009	69743	Southern Training Area Infrastructure-Maneuver Area					6.06	290.88
E0304	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.98	0.00
E0401	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trail	3.09	293.55				
E0402	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	3.09	111.24				
E0402	2009	69743	Southern Training Area Infrastructure-Maneuver Area	33.23	1,196.28				
pp1027*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.12	0.00
pp855*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.44	0.00
T0407	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.54	15.93
T0416	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	1.19	43.44				
T0507	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	0.93	39.53				
			TOTAL REMOVALS	**49.27**	**1,953.72**	**0.00**	**0.00**	**10.53**	**349.85**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**65.73**	**2,555.76**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**41.83**	**909.87**
TOTAL	**107.56**	**3,465.63**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10U = Yellow Pine-Upland Hardwood Underplanted
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21U = Longleaf Pine Underplanted
25 = Mixed Pine
25U = Mixed Pine Underplanted
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31P = Loblolly Pine Plantation
31U = Loblolly Pine Underplanted

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-110. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **E04-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D1102	0.29	88	21	17.18	5.00	20.15	14.50	8.66	11.50	35.55	5.20	2.00	6.50	26.00	37.50	1	28	20	3	1	3.63	PS					0.29	7.54
D1102	0.05	88	21U	17.18	5.00	20.15	14.50	8.66	11.50	35.55	5.20	2.00	6.50	26.00	37.50	1	28	20	3	1	3.63	PS					0.05	1.30
D1109	3.86	78	31	19.55	5.50	12.80	9.00	19.33	29.50	25.87	6.42	3.70	10.50	38.50	54.50	1	26	24	3	1	4.41	CS	3.86	148.61				
D1109	0.34	78	31U	19.55	5.50	12.80	9.00	19.33	29.50	25.87	6.42	3.70	10.50	38.50	54.50	1	26	24	3	1	4.41	CS	0.34	13.09				
D1217	2.94	47	31	20.19	5.00	24.23	17.50	10.89	16.50	14.09	1.44	0.74	2.00	34.00	41.00	2	36	6	3	1	3.96	PS					2.94	99.96
D1225	0.32	46	10U	3.54	1.00	24.76	18.50	14.50	20.00	9.09	3.97	0.33	3.00	38.50	42.50	1	33	10	3	1	4.27	PS					0.32	12.32
D1242	14.55	46	31	5.85	2.00	18.42	13.50	11.02	17.00	11.57	4.52	3.81	8.00	30.50	40.50	1	22	22	3	1	3.70	PS					14.55	443.78
D1242	11.55	46	31U	5.85	2.00	18.42	13.50	11.02	17.00	11.57	4.52	3.81	8.00	30.50	40.50	1	22	22	3	1	3.70	PS					11.55	352.28
D1243	4.78	44	25	6.66	2.50	14.75	11.00	10.30	14.50	23.82	2.23	0.39	2.00	25.50	30.00	1	24	9	3	1	3.63	PS					4.78	121.89
D1243	6.51	44	25U	6.66	2.50	14.75	11.00	10.30	14.50	23.82	2.23	0.39	2.00	25.50	30.00	1	24	9	3	1	3.63	PS					6.51	166.01
E0303	19.30	19	31	25.56	7.50	30.17	21.50	18.91	26.50	11.32	3.52	3.07	7.50	48.00	63.00	1	29	12	3	1	4.01	NH					19.30	926.40
E0304	11.90	19	31P	305.39	73.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.00	1	30	0	3	1	2.67	NH					11.90	0.00
E0401	6.06	76	21	23.02	5.00	4.72	3.33	45.69	91.67	0.00	0.00	1.58	1.67	95.00	101.67	1	20	3	3	1	4.63	PS			6.06	575.70		
E0402	39.79	76	25	17.25	3.50	11.65	8.50	17.22	27.50	10.48	2.82	2.73	7.00	36.00	46.50	1	31	16	3	1	4.42	PS					39.79	1,432.44
E0407	1.33	53	26	36.30	12.22	23.76	17.22	10.17	13.33	3.61	1.89	1.11	3.33	30.56	46.11	1	33	8	3	1	3.86	PS					1.33	40.64
pp1027*	0.17	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.17	0.00
pp855*	8.12	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					8.12	0.00
T0407	1.24	70	21	10.40	3.00	7.19	5.50	16.36	24.00	17.69	9.18	1.51	9.00	29.50	41.50	1	28	31	3	1	4.14	PS					1.24	36.58
T0416	13.17	55	25	10.77	3.00	22.08	15.00	14.46	21.50	8.25	4.54	3.25	7.50	36.50	47.00	1	28	18	3	1	4.18	PS					13.17	480.71
T0507	15.64	55	25	52.56	11.50	22.15	17.00	18.40	25.50	12.90	5.00	2.89	9.00	42.50	63.00	1	36	16	3	1	4.41	PS					15.64	664.70
T0520	5.45	68	21	7.25	2.00	9.30	7.50	25.10	37.50	3.49	0.56	0.53	1.50	45.00	48.50	1	41	3	3	1	4.85	CS	5.45	245.25				
	167.36																						**9.65**	**406.95**	**6.06**	**575.70**	**151.65**	**4,786.55**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D1102	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.33	8.58
D1102	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.01	0.26
D1109	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	1.85	71.23				
D1109	2009	69743	Southern Training Area Infrastructure-Maneuver Area	2.35	90.48				
D1242	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					3.54	107.97
D1243	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.72	18.36
E0303	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.33	15.84
E0303	2009	69743	Southern Training Area Infrastructure-Maneuver Area					6.06	290.88
E0304	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.98	0.00
E0401	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails			3.09	293.55		
E0402	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					3.09	111.24
E0402	2009	69743	Southern Training Area Infrastructure-Maneuver Area					33.23	1,196.28
pp1027*	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.12	0.00
pp855*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.44	0.00
T0407	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.54	15.93
T0416	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.19	43.44
T0507	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.93	39.53
			TOTAL REMOVALS	**4.20**	**161.70**	**3.09**	**293.55**	**52.51**	**1,919.54**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**5.45**	**245.25**
Potentially Suitable Habitat	**2.97**	**282.15**
Future Potential Habitat	**99.14**	**2,867.01**
TOTAL	**107.56**	**3,394.41**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10U = Yellow Pine-Upland Hardwood Underplanted
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21U = Longleaf Pine Underplanted
25 = Mixed Pine
25U = Mixed Pine Underplanted
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31P = Loblolly Pine Plantation
31U = Loblolly Pine Underplanted

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-111. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **F02-01R Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D0510	5.03	45	31	16.97	4.00	16.52	12.50	17.68	28.00	6.41	1.11	3.20	7.50	40.50	52.00	1	34	11	3	1	1	5.03	203.72				
D0514	23.04	52	21	11.97	2.50	1.31	1.00	12.15	21.00	2.46	1.50	0.84	3.00	22.00	27.50	2	33	15	3	1	0					23.04	506.88
F0102	0.22	18	31P	392.52	124.00	51.67	30.00	0.00	0.00	0.00	0.00	0.00	0.00	30.00	154.00	1	2	0	3	1	0					0.00	0.00
F0202	0.07	53	22P	9.59	2.00	22.76	18.00	13.51	18.00	0.00	0.53	0.00	0.50	36.00	38.50	1	25	1	3	1	1	0.07	2.52				
F0203	11.13	53	10	5.81	2.00	6.52	4.50	9.23	14.50	8.64	3.28	3.75	9.00	19.00	30.00	1	24	31	3	1	0					11.13	211.47
F0205	6.01	64	13	2.90	1.43	10.34	7.14	18.39	30.00	9.04	0.00	1.83	2.86	37.14	41.43	2	9	6	3	1	1	6.01	223.21				
F0206	17.88	70	21	6.55	2.00	14.04	10.50	21.02	33.50	5.37	0.00	1.82	3.00	44.00	49.00	1	19	5	3	1	1	17.88	786.72				
F0208	33.84	88	26	12.91	3.33	5.37	4.44	11.94	19.44	0.00	0.00	0.35	1.11	23.89	28.33	2	19	2	3	1	0					33.84	808.44
F0209	37.52	67	31	2.42	1.18	4.96	3.53	11.27	17.06	1.39	0.00	0.17	0.59	20.59	22.35	2	22	1	3	1	0					37.52	772.54
F0209	14.82	67	31U	2.42	1.18	4.96	3.53	11.27	17.06	1.39	0.00	0.17	0.59	20.59	22.35	2	22	1	3	1	0					14.82	305.14
F0210	9.34	80	21	2.57	1.11	10.88	8.89	24.46	36.67	2.63	4.70	3.39	10.00	45.56	56.67	2	22	19	3	1	1	9.34	425.53				
F0211	4.27	59	99**	0.00	0.00	3.76	3.33	5.31	8.33	0.00	0.00	0.00	0.00	11.67	11.67	3	15	0	3	1	0					0.00	0.00
F0211	3.63	59	21P	0.00	0.00	3.76	3.33	5.31	8.33	0.00	0.00	0.00	0.00	11.67	11.67	3	15	0	3	1	0					3.63	42.36
F0216	0.44	76	99**	31.92	5.00	0.00	0.00	0.63	1.67	0.00	0.00	0.00	0.00	1.67	6.67	2	52	0	3	1	0					0.00	0.00
F0216	5.77	76	21P	31.92	5.00	0.00	0.00	0.63	1.67	0.00	0.00	0.00	0.00	1.67	6.67	2	52	0	3	1	0					0.00	0.00
F0216	0.01	76	21P	31.92	5.00	0.00	0.00	0.63	1.67	0.00	0.00	0.00	0.00	1.67	6.67	2	52	0	3	1	0					0.00	0.00
F0218	0.04	63	31	17.21	3.50	9.06	7.00	7.23	10.00	4.23	0.86	0.44	1.50	17.00	22.00	2	24	7	3	1	0					0.00	0.00
F0218	0.06	63	31U	17.21	3.50	9.06	7.00	7.23	10.00	4.23	0.86	0.44	1.50	17.00	22.00	2	24	7	3	1	0					0.00	0.00
F0220	2.66	105	31P	278.11	70.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.00	3	10	0	3	1	0					0.00	0.00
F0224	6.83	58	10	17.36	4.50	6.88	4.50	10.68	15.50	23.86	9.33	8.14	19.00	20.00	43.50	3	31	50	3	1	0					0.00	0.00
K2108	15.32	62	31	10.27	2.11	16.79	12.63	21.05	32.63	12.26	4.37	2.35	6.84	45.26	54.21	1	15	15	3	1	1	15.32	693.38				
K2108	0.03	62	31U	10.27	2.11	16.79	12.63	21.05	32.63	12.26	4.37	2.35	6.84	45.26	54.21	1	15	15	3	1	1	0.03	1.36				
pp1044*	4.91	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					4.91	0.00
pp1045*	2.45	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.45	0.00
pp1047*	2.54	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp226*	1.07	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp363*	3.10	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.10	0.00
pp364*	1.61	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp365*	4.61	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp65*	2.30	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp67*	2.32	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.32	0.00
pp68*	5.20	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp69*	8.81	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
	236.88																					**53.68**	**2,336.44**	**0.00**	**0.00**	**136.76**	**2,646.83**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D0510	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	1.77	71.69				
D0510	2009	69743	Southern Training Area Infrastructure-Maneuver Area	3.26	132.03				
D0514	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					6.25	137.50
D0514	2009	69743	Southern Training Area Infrastructure-Maneuver Area					16.52	363.44
F0202	2009	69743	Southern Training Area Infrastructure-Maneuver Area	0.07	2.52				
F0203	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.71	32.49
F0203	2009	69743	Southern Training Area Infrastructure-Maneuver Area					9.42	178.98
F0205	2009	69743	Southern Training Area Infrastructure-Maneuver Area	3.44	127.76				
F0206	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	4.42	194.48				
F0206	2009	69743	Southern Training Area Infrastructure-Maneuver Area	13.46	592.24				
F0208	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.44	10.51
F0208	2009	69743	Southern Training Area Infrastructure-Maneuver Area					31.99	764.24
F0209	2009	69743	Southern Training Area Infrastructure-Maneuver Area					9.96	205.08
F0210	2009	69743	Southern Training Area Infrastructure-Maneuver Area	8.55	389.54				
F0211	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.19	13.89
F0211	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.44	28.47
pp363*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					3.05	0.00
pp67*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.84	0.00
			2009 SUB-TOTAL	**34.97**	**1,510.26**	**0.00**	**0.00**	**83.81**	**1,734.60**
F0205	2010	65557	Repair Existing Training Area Roads	1.69	62.77				
F0209	2010	65557	Repair Existing Training Area Roads					3.47	71.45
K2108	2010	65557	Repair Existing Training Area Roads	5.20	235.35				
pp1045*	2010	65557	Repair Existing Training Area Roads					0.54	0.00
			2010 SUB-TOTAL	**6.89**	**298.12**	**0.00**	**0.00**	**4.01**	**71.45**
			TOTAL REMOVALS	**41.86**	**1,808.38**	**0.00**	**0.00**	**87.82**	**1,806.05**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**18.71**	**826.18**	**11.82**	**528.06**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**52.95**	**912.23**	**48.94**	**840.78**
TOTAL	**71.66**	**1,738.41**	**60.76**	**1,368.84**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31P = Loblolly Pine Plantation
31U = Loblolly Pine Underplanted
99** = Brush Species (managed for hardwoods)

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-112. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **F02-01R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D0510	5.03	45	31	16.97	4.00	16.52	12.50	17.68	28.00	6.41	1.11	3.20	7.50	40.50	52.00	1	34	11	3	1	4.25	PS					5.03	203.72
D0514	23.04	52	21	11.97	2.50	1.31	1.00	12.15	21.00	2.46	1.50	0.84	3.00	22.00	27.50	2	33	15	3	1	4.09	PS					23.04	506.88
F0102	0.22	18	31P	392.52	124.00	51.67	30.00	0.00	0.00	0.00	0.00	0.00	0.00	30.00	154.00	1	2	0	3	1	2.47	NH					0.00	0.00
F0202	0.07	53	22P	9.59	2.00	22.76	18.00	13.51	18.00	0.00	0.53	0.00	0.50	36.00	38.50	1	25	1	3	1	4.17	PS					0.07	2.52
F0203	11.13	53	10	5.81	2.00	6.52	4.50	9.23	14.50	8.64	3.28	3.75	9.00	19.00	30.00	1	24	31	3	1	3.47	PS					11.13	211.47
F0205	6.01	64	13	2.90	1.43	10.34	7.14	18.39	30.00	9.04	0.00	1.83	2.86	37.14	41.43	2	9	6	3	1	4.39	CS	6.01	223.21				
F0206	17.88	70	21	6.55	2.00	14.04	10.50	21.02	33.50	5.37	0.00	1.82	3.00	44.00	49.00	1	19	5	3	1	4.55	CS	17.88	786.72				
F0208	33.84	88	26	12.91	3.33	5.37	4.44	11.94	19.44	0.00	0.00	0.35	1.11	23.89	28.33	2	19	2	3	1	3.95	PS					33.84	808.44
F0209	37.52	67	31	2.42	1.18	4.96	3.53	11.27	17.06	1.39	0.00	0.17	0.59	20.59	22.35	2	22	1	3	1	4.05	PS					37.52	772.54
F0209	14.82	67	31U	2.42	1.18	4.96	3.53	11.27	17.06	1.39	0.00	0.17	0.59	20.59	22.35	2	22	1	3	1	4.05	PS					14.82	305.14
F0210	9.34	80	21	2.57	1.11	10.88	8.89	24.46	36.67	2.63	4.70	3.39	10.00	45.56	56.67	2	22	19	3	1	4.52	CS	9.34	425.53				
F0211	4.27	59	99**	0.00	0.00	3.76	3.33	5.31	8.33	0.00	0.00	0.00	0.00	11.67	11.67	3	15	0	3	1	3.33	PS					0.00	0.00
F0211	3.63	59	21P	0.00	0.00	3.76	3.33	5.31	8.33	0.00	0.00	0.00	0.00	11.67	11.67	3	15	0	3	1	3.33	PS					3.63	42.36
F0216	0.44	76	99**	31.92	5.00	0.00	0.00	0.63	1.67	0.00	0.00	0.00	0.00	1.67	6.67	2	52	0	3	1	3.45	PS					0.00	0.00
F0216	5.77	76	21P	31.92	5.00	0.00	0.00	0.63	1.67	0.00	0.00	0.00	0.00	1.67	6.67	2	52	0	3	1	3.45	PS					0.00	0.00
F0216	0.01	76	21P	31.92	5.00	0.00	0.00	0.63	1.67	0.00	0.00	0.00	0.00	1.67	6.67	2	52	0	3	1	3.45	PS					0.00	0.00
F0218	0.04	63	31	17.21	3.50	9.06	7.00	7.23	10.00	4.23	0.86	0.44	1.50	17.00	22.00	2	24	7	3	1	3.71	PS					0.00	0.00
F0218	0.06	63	31U	17.21	3.50	9.06	7.00	7.23	10.00	4.23	0.86	0.44	1.50	17.00	22.00	2	24	7	3	1	3.71	PS					0.00	0.00
F0220	2.66	105	31P	278.11	70.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.00	3	10	0	3	1	3.03	PS					0.00	0.00
F0224	6.83	58	10	17.36	4.50	6.88	4.50	10.68	15.50	23.86	9.33	8.14	19.00	20.00	43.50	3	31	50	3	1	3.76	PS					0.00	0.00
K2108	15.32	62	31	10.27	2.11	16.79	12.63	21.05	32.63	12.26	4.37	2.35	6.84	45.26	54.21	1	15	15	3	1	4.48	CS	15.32	693.38				
K2108	0.03	62	31U	10.27	2.11	16.79	12.63	21.05	32.63	12.26	4.37	2.35	6.84	45.26	54.21	1	15	15	3	1	4.48	CS	0.03	1.36				
pp1044*	4.91	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					4.91	0.00
pp1045*	2.45	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.45	0.00
pp1047*	2.54	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp226*	1.07	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp363*	3.10	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.10	0.00
pp364*	1.61	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp365*	4.61	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp65*	2.30	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp67*	2.32	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.32	0.00
pp68*	5.20	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp69*	8.81	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
	236.88																						**48.58**	**2,130.20**	**0.00**	**0.00**	**141.86**	**2,853.07**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D0510	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.77	71.69
D0510	2009	69743	Southern Training Area Infrastructure-Maneuver Area					3.26	132.03
D0514	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					6.25	137.50
D0514	2009	69743	Southern Training Area Infrastructure-Maneuver Area					16.52	363.44
F0202	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.07	2.52
F0203	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.71	32.49
F0203	2009	69743	Southern Training Area Infrastructure-Maneuver Area					9.42	178.98
F0205	2009	69743	Southern Training Area Infrastructure-Maneuver Area	3.44	127.76				
F0206	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	4.42	194.48				
F0206	2009	69743	Southern Training Area Infrastructure-Maneuver Area	13.46	592.24				
F0208	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.44	10.51
F0208	2009	69743	Southern Training Area Infrastructure-Maneuver Area					31.99	764.24
F0209	2009	69743	Southern Training Area Infrastructure-Maneuver Area					9.96	205.08
F0210	2009	69743	Southern Training Area Infrastructure-Maneuver Area	8.55	389.54				
F0211	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.19	13.89
F0211	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.44	28.47
pp363*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					3.05	0.00
pp67*	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.84	0.00
			2009 SUB-TOTAL	**29.87**	**1,304.02**	**0.00**	**0.00**	**88.91**	**1940.84**
F0205	2010	65557	Repair Existing Training Area Roads	1.69	62.77				
F0209	2010	65557	Repair Existing Training Area Roads					3.47	71.45
K2108	2010	65557	Repair Existing Training Area Roads	5.20	235.35				
pp1045*	2010	65557	Repair Existing Training Area Roads					0.54	0.00
			2010 SUB-TOTAL	**6.89**	**298.12**	**0.00**	**0.00**	**4.01**	**71.45**
			TOTAL REAMOVALS	**36.76**	**1,602.14**	**0.00**	**0.00**	**92.92**	**2,012.29**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**18.71**	**826.18**	**11.82**	**528.06**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31P = Loblolly Pine Plantation
31U = Loblolly Pine Underplanted
99** = Brush Species (managed for hardwoods)

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-113. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **HCC-08R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
EE0111	0.59	108	31	31.80	8.50	17.52	12.50	11.69	21.50	34.09	5.01	1.85	6.50	34.00	49.00	2	7	19	3	1	1	0.59	20.06				
EE0116	15.58	86	31	32.99	8.50	13.05	9.00	14.11	26.50	0.00	0.00	0.10	0.50	35.50	44.50	2	23	0	3	1	1	15.58	553.09				
EE0201	15.47	85	31	3.98	1.00	5.95	4.00	11.54	26.50	5.18	1.20	0.45	1.50	30.50	33.00	1	36	9	3	1	1	15.47	471.84				
EE0201	0.12	85	31U	3.98	1.00	5.95	4.00	11.54	26.50	5.18	1.20	0.45	1.50	30.50	33.00	1	36	9	3	1	1	0.12	3.66				
EE0202	14.53	64	31	94.21	22.22	14.48	10.56	14.25	21.67	3.49	0.00	0.17	0.56	32.22	55.00	6	26	1	3	1	0			14.53	468.16		
EE0203	6.22	85	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					6.22	0.00
EE0206	0.28	104	31	0.00	0.00	6.08	4.71	12.61	27.06	1.49	1.38	3.02	7.06	31.76	38.82	1	54	19	3	1	1	0.28	8.89				
EE0206	11.99	104	31U	0.00	0.00	6.08	4.71	12.61	27.06	1.49	1.38	3.02	7.06	31.76	38.82	1	54	19	3	1	1	11.99	380.80				
EE0207	33.29	57	31	26.85	7.50	12.26	9.00	11.66	22.00	25.81	8.50	4.56	13.50	31.00	52.00	7	9	35	3	1	0			33.29	1,031.99		
EE0208	2.58	57	31	2.83	1.05	7.49	5.79	13.97	21.58	3.65	5.99	2.30	8.95	27.37	37.37	9	20	28	3	1	0					0.00	0.00
EE0212	68.29	106	31	105.86	24.74	20.39	14.21	8.99	14.74	6.39	1.00	0.00	0.53	28.95	54.21	1	29	3	3	1	0					68.29	1,977.00
EE0212	0.03	106	31U	105.86	24.74	20.39	14.21	8.99	14.74	6.39	1.00	0.00	0.53	28.95	54.21	1	29	3	3	1	0					0.03	0.87
EE0213	2.22	73	31	9.37	3.50	9.06	6.50	13.39	26.50	7.86	7.79	2.80	10.00	33.00	46.50	8	25	32	3	1	0			2.22	73.26		
EE0215	17.51	81	31	18.88	6.00	11.86	8.50	10.15	15.50	2.86	5.42	5.08	13.00	24.00	43.00	8	23	32	3	1	0					17.51	420.24
EE0221	2.74	81	13	19.74	5.50	7.11	5.50	19.91	37.50	16.61	6.04	4.72	12.00	43.00	60.50	1	17	28	3	1	1	2.74	117.82				
pp120*	0.04	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.04	0.00
	191.48																					**46.77**	**1,556.16**	**50.04**	**1,573.41**	**92.09**	**2,398.11**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
EE0221	2009	67457	Infrastructure Support - Utilities	0.61	26.23				
			TOTAL REMOVALS	**0.61**	**26.23**	**0.00**	**0.00**	**0.00**	**0.00**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Foraging Habitat	**46.16**	**1,529.93**
Potentially Suitable Habitat	**50.04**	**1,573.41**
Future Potential Habitat	**92.09**	**2,398.11**
TOTAL	**188.29**	**5,501.45**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21P = Longleaf Pine Plantation
31 = Loblolly Pine
31U = Loblolly Pine Underplanted

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-114. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **HCC-08R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
EE0111	0.59	108	31	31.80	8.50	17.52	12.50	11.69	21.50	34.09	5.01	1.85	6.50	34.00	49.00	2	7	19	3	1	3.94	PS					0.59	20.06
EE0116	15.58	86	31	32.99	8.50	13.05	9.00	14.11	26.50	0.00	0.00	0.10	0.50	35.50	44.50	2	23	0	3	1	4.42	PS					15.58	553.09
EE0201	15.47	85	31	3.98	1.00	5.95	4.00	11.54	26.50	5.18	1.20	0.45	1.50	30.50	33.00	1	36	9	3	1	4.34	PS					15.47	471.84
EE0201	0.12	85	31U	3.98	1.00	5.95	4.00	11.54	26.50	5.18	1.20	0.45	1.50	30.50	33.00	1	36	9	3	1	4.34	PS					0.12	3.66
EE0202	14.53	64	31	94.21	22.22	14.48	10.56	14.25	21.67	3.49	0.00	0.17	0.56	32.22	55.00	6	26	1	3	1	3.95	PS					14.53	468.16
EE0203	6.22	85	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.62	PS					6.22	0.00
EE0206	0.28	104	31	0.00	0.00	6.08	4.71	12.61	27.06	1.49	1.38	3.02	7.06	31.76	38.82	1	54	19	3	1	4.32	PS					0.28	8.89
EE0206	11.99	104	31U	0.00	0.00	6.08	4.71	12.61	27.06	1.49	1.38	3.02	7.06	31.76	38.82	1	54	19	3	1	4.32	PS					11.99	380.80
EE0207	33.29	57	31	26.85	7.50	12.26	9.00	11.66	22.00	25.81	8.50	4.56	13.50	31.00	52.00	7	9	35	3	1	3.28	PS					33.29	1,031.99
EE0208	2.58	57	31	2.83	1.05	7.49	5.79	13.97	21.58	3.65	5.99	2.30	8.95	27.37	37.37	9	20	28	3	1	3.61	PS					0.00	0.00
EE0212	68.29	106	31	105.86	24.74	20.39	14.21	8.99	14.74	6.39	1.00	0.00	0.53	28.95	54.21	1	29	3	3	1	3.68	PS					68.29	1,977.00
EE0212	0.03	106	31U	105.86	24.74	20.39	14.21	8.99	14.74	6.39	1.00	0.00	0.53	28.95	54.21	1	29	3	3	1	3.68	PS					0.03	0.87
EE0213	2.22	73	31	9.37	3.50	9.06	6.50	13.39	26.50	7.86	7.79	2.80	10.00	33.00	46.50	8	25	32	3	1	3.74	PS					2.22	73.26
EE0215	17.51	81	31	18.88	6.00	11.86	8.50	10.15	15.50	2.86	5.42	5.08	13.00	24.00	43.00	8	23	32	3	1	3.34	PS					17.51	420.24
EE0221	2.74	81	13	19.74	5.50	7.11	5.50	19.91	37.50	16.61	6.04	4.72	12.00	43.00	60.50	1	17	28	3	1	4.36	CS	2.74	117.82				
pp120*	0.04	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.04	0.00
	191.48																						**2.74**	**117.82**	**0.00**	**0.00**	**186.16**	**5,409.86**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
EE0221	2009	67457	Infrastructure Support - Utilities	0.61	26.23				
			2009 SUB-TOTAL	**0.61**	**26.23**	**0.00**	**0.00**	**0.00**	**0.00**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Foraging Habitat	**2.13**	**91.59**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**186.16**	**5,409.86**
TOTAL	**188.29**	**5,501.45**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21P = Longleaf Pine Plantation
31 = Loblolly Pine
31U = Loblolly Pine Underplanted

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-115. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **HCC-10R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0711	0.70	49	26	34.26	10.00	29.29	20.00	10.07	14.00	7.44	0.00	0.23	0.50	34.00	44.50	1	43	1	3	1	1	0.70	23.80				
A0725	0.92	50	31	8.28	2.50	16.40	12.50	16.80	28.50	3.67	2.58	1.65	4.50	41.00	48.00	2	34	11	3	1	1	0.92	37.72				
A0804	2.16	57	21	31.74	9.00	15.09	10.50	17.29	24.50	5.29	1.09	1.41	3.50	35.00	47.50	1	30	7	3	1	1	2.16	75.60				
EE0105	0.29	73	21	17.61	4.50	14.72	11.00	8.62	11.00	23.98	3.38	0.33	3.00	22.00	29.50	1	14	14	3	1	0					0.00	0.00
EE0107	3.67	73	21	9.00	2.50	8.87	6.50	15.65	23.50	0.00	1.31	0.29	2.00	30.00	34.50	8	30	6	3	1	0			3.67	110.10		
EE0110	36.73	60	26	12.13	4.00	3.56	2.50	16.62	32.00	2.67	0.00	1.09	1.50	34.50	40.00	1	9	5	3	1	1	36.73	1,267.19				
EE0111	50.91	108	31	31.80	8.50	17.52	12.50	11.69	21.50	34.09	5.01	1.85	6.50	34.00	49.00	2	7	19	3	1	1	50.91	1,730.94				
EE0112	11.27	98	26	0.00	0.00	6.08	5.00	17.17	27.00	10.02	1.99	0.99	2.00	32.00	34.00	1	18	11	3	1	1	11.27	360.64				
EE0113	10.52	86	21	27.76	5.50	5.10	3.50	8.82	15.50	0.00	0.00	0.11	0.50	19.00	25.00	9	27	1	3	1	0					10.52	199.88
EE0116	0.99	86	31	32.99	8.50	13.05	9.00	14.11	26.50	0.00	0.00	0.10	0.50	35.50	44.50	2	23	0	3	1	1	0.99	35.15				
EE0117	8.07	83	21	17.08	5.00	13.92	10.50	23.21	32.50	1.18	0.94	0.79	2.00	43.00	50.00	8	12	4	3	1	0			8.07	347.01		
EE0121	0.10	98	21	2.85	1.00	7.63	5.50	14.19	22.50	1.06	0.00	2.04	3.00	28.00	32.00	6	30	9	3	1	0					0.10	2.80
EE0122	0.06	73	21	17.61	4.50	14.72	11.00	8.62	11.00	23.98	3.38	0.33	3.00	22.00	29.50	1	14	14	3	1	0					0.06	1.32
pp122*	0.39	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.39	0.00
S0110	0.62	68	NM	35.42	7.78	3.49	3.33	3.12	7.78	0.00	0.00	1.74	2.22	11.11	21.11	2	47	21	3	1	0					0.00	0.00
S0120	18.55	68	31	4.04	1.50	22.82	16.50	16.06	25.00	7.15	1.19	0.45	2.00	41.50	45.00	2	16	4	3	1	1	18.55	769.83				
S0125	0.05	86	31	22.78	6.19	16.22	11.90	13.73	26.67	2.20	1.26	0.00	0.95	38.57	45.71	3	20	4	3	1	1	0.05	1.93				
	146.00																					**122.28**	**4,302.80**	**11.74**	**457.11**	**11.07**	**204.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0804	2009	69358	Range Access Road, Good Hope MTA	0.28	9.80				
EE0110	2009	69358	Range Access Road, Good Hope MTA	4.90	169.05				
EE0110	2009	67457	Infrastructure Support - Utilities	0.53	18.29				
EE0111	2009	69358	Range Access Road, Good Hope MTA	4.08	138.72				
EE0112	2009	69358	Range Access Road, Good Hope MTA	0.64	20.48				
EE0112	2009	67457	Infrastructure Support - Utilities	1.92	61.44				
EE0117	2009	69358	Range Access Road, Good Hope MTA			0.39	16.77		
EE0117	2009	67457	Infrastructure Support - Utilities			0.19	8.17		
EE0121	2009	69358	Range Access Road, Good Hope MTA					0.03	0.84
pp122*	2009	67457	Infrastructure Support - Utilities					0.14	0.00
S0120	2009	69358	Range Access Road, Good Hope MTA	3.32	137.78				
			2009 SUB-TOTAL	**15.67**	**555.56**	**0.58**	**24.94**	**0.17**	**0.84**
A0711	2010	65557	Repair Existing Training Area Roads, Phase	0.18	6.12				
A0725	2010	65557	Repair Existing Training Area Roads, Phase 1	0.16	6.56				
A0804	2010	65557	Repair Existing Training Area Roads, Phase 1	1.13	39.55				
EE0121	2010	65557	Repair Existing Training Area Roads, Phase 1					0.07	1.96
EE0122	2010	65557	Repair Existing Training Area Roads, Phase 1					0.05	1.10
			2010 SUB-TOTAL	**1.47**	**52.23**	**0.00**	**0.00**	**0.12**	**3.06**
EE0107	2012	65246	Recreation Center, Harmony Church			1.12	33.60		
			2012 SUB-TOTAL	**0.00**	**0.00**	**1.12**	**33.60**	**0.00**	**0.00**
			TOTAL REMOVALS	**17.14**	**607.79**	**1.70**	**58.54**	**0.29**	**3.90**

POST-PROJECT	**2009**		**2010 Sub-total**		**non-contiguous habitat**		**2010 Sub-total**		**2012**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Foraging Habitat	**106.61**	**3,747.24**	**105.14**	**3,695.01**	**2.03**	**75.09**	**103.11**	**3,619.92**	**103.11**	**3,619.92**
Potentially Suitable Habitat	**11.16**	**432.17**	**11.16**	**432.17**	**0.00**	**0.00**	**11.16**	**432.17**	**10.04**	**398.57**
Future Potential Habitat	**10.90**	**203.16**	**10.78**	**200.10**	**0.00**	**0.00**	**10.78**	**200.10**	**10.78**	**200.10**
TOTAL	**128.67**	**4,382.57**	**127.08**	**4,327.28**	**2.03**	**75.09**	**125.05**	**4,252.19**	**123.93**	**4,218.59**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Stands A0711, A0725 and A0804 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-116. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **HCC-10R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0711	0.70	49	26	34.26	10.00	29.29	20.00	10.07	14.00	7.44	0.00	0.23	0.50	34.00	44.50	1	43	1	3	1	3.56	PS					0.70	23.80
A0725	0.92	50	31	8.28	2.50	16.40	12.50	16.80	28.50	3.67	2.58	1.65	4.50	41.00	48.00	2	34	11	3	1	4.00	PS					0.92	37.72
A0804	2.16	57	21	31.74	9.00	15.09	10.50	17.29	24.50	5.29	1.09	1.41	3.50	35.00	47.50	1	30	7	3	1	4.06	PS					2.16	75.60
EE0105	0.29	73	21	17.61	4.50	14.72	11.00	8.62	11.00	23.98	3.38	0.33	3.00	22.00	29.50	1	14	14	3	1	3.34	PS					0.00	0.00
EE0107	3.67	73	21	9.00	2.50	8.87	6.50	15.65	23.50	0.00	1.31	0.29	2.00	30.00	34.50	8	30	6	3	1	3.74	PS					3.67	110.10
EE0110	36.73	60	26	12.13	4.00	3.56	2.50	16.62	32.00	2.67	0.00	1.09	1.50	34.50	40.00	1	9	5	3	1	3.85	PS					36.73	1,267.19
EE0111	50.91	108	31	31.80	8.50	17.52	12.50	11.69	21.50	34.09	5.01	1.85	6.50	34.00	49.00	2	7	19	3	1	3.75	PS					50.91	1,730.94
EE0112	11.27	98	26	0.00	0.00	6.08	5.00	17.17	27.00	10.02	1.99	0.99	2.00	32.00	34.00	1	18	11	3	1	3.85	PS					11.27	360.64
EE0113	10.52	86	21	27.76	5.50	5.10	3.50	8.82	15.50	0.00	0.00	0.11	0.50	19.00	25.00	9	27	1	3	1	3.05	PS					10.52	199.88
EE0116	0.99	86	31	32.99	8.50	13.05	9.00	14.11	26.50	0.00	0.00	0.10	0.50	35.50	44.50	2	23	0	3	1	4.08	PS					0.99	35.15
EE0117	8.07	83	21	17.08	5.00	13.92	10.50	23.21	32.50	1.18	0.94	0.79	2.00	43.00	50.00	8	12	4	3	1	3.89	PS			8.07	347.01		
EE0121	0.10	98	21	2.85	1.00	7.63	5.50	14.19	22.50	1.06	0.00	2.04	3.00	28.00	32.00	6	30	9	3	1	3.23	PS					0.10	2.80
EE0122	0.06	73	21	17.61	4.50	14.72	11.00	8.62	11.00	23.98	3.38	0.33	3.00	22.00	29.50	1	14	14	3	1	3.60	PS					0.06	1.32
pp122*	0.39	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.60	NH					0.39	0.00
S0110	0.62	68	NM	35.42	7.78	3.49	3.33	3.12	7.78	0.00	0.00	1.74	2.22	11.11	21.11	2	47	21	3	1	3.27	PS					0.00	0.00
S0120	18.55	68	31	4.04	1.50	22.82	16.50	16.06	25.00	7.15	1.19	0.45	2.00	41.50	45.00	2	16	4	3	1	4.08	PS					18.55	769.83
S0125	0.05	86	31	22.78	6.19	16.22	11.90	13.73	26.67	2.20	1.26	0.00	0.95	38.57	45.71	3	20	4	3	1	4.01	PS					0.05	1.93
	146.00																						**0.00**	**0.00**	**8.07**	**347.01**	**137.02**	**4,616.90**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0804	2009	69358	Range Access Road, Good Hope MTA					0.28	9.80
EE0110	2009	69358	Range Access Road, Good Hope MTA					4.90	169.05
EE0110	2009	67457	Infrastructure Support - Utilities					0.53	18.29
EE0111	2009	69358	Range Access Road, Good Hope MTA					4.08	138.72
EE0112	2009	69358	Range Access Road, Good Hope MTA					0.64	20.48
EE0112	2009	67457	Infrastructure Support - Utilities					1.92	61.44
EE0117	2009	69358	Range Access Road, Good Hope MTA			0.39	16.77		
EE0117	2009	67457	Infrastructure Support - Utilities			0.19	8.17		
EE0121	2009	69358	Range Access Road, Good Hope MTA					0.03	0.84
pp122*	2009	67457	Infrastructure Support - Utilities					0.14	0.00
S0120	2009	69358	Range Access Road, Good Hope MTA					3.32	137.78
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.58**	**24.94**	**15.84**	**556.40**
A0711	2010	65557	Repair Existing Training Area Roads, Phase 1					0.18	6.12
A0725	2010	65557	Repair Existing Training Area Roads, Phase 1					0.16	6.56
A0804	2010	65557	Repair Existing Training Area Roads, Phase 1					1.13	39.55
EE0121	2010	65557	Repair Existing Training Area Roads, Phase 1					0.07	1.96
EE0122	2010	65557	Repair Existing Training Area Roads, Phase 1					0.05	1.10
			2010 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**1.59**	**55.29**
EE0107	2012	65246	Recreation Center, Harmony Church					1.12	33.60
			2012 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**1.12**	**33.60**
			TOTAL REMOVALS	**0.00**	**0.00**	**0.58**	**24.94**	**18.55**	**645.29**

POST-PROJECT	**2009**		**2010 Sub-total**		**non-contiguous habitat**		**2010 Sub-total**		**2012**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Foraging Habitat	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**7.49**	**322.07**	**7.49**	**322.07**	**0.00**	**0.00**	**7.49**	**322.07**	**7.49**	**322.07**
Future Potential Habitat	**121.18**	**4,060.50**	**119.59**	**4,005.21**	**2.03**	**75.09**	**117.56**	**3,930.12**	**116.44**	**3,896.52**
TOTAL	**128.67**	**4,382.57**	**127.08**	**4,327.28**	**2.03**	**75.09**	**125.05**	**4,252.19**	**123.93**	**4,218.59**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Stands A0711, A0725 and A0804 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition.

Appendix Table H-117. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **HCC-11R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0704	12.37	60	31	9.05	3.50	12.21	8.00	2.92	3.50	1.08	1.51	0.66	2.00	11.50	17.00	8	20	13	3	1	0					12.37	142.26
A0708	7.30	73	21	23.62	6.00	12.48	8.50	12.47	20.50	3.84	2.34	0.70	2.50	29.00	37.50	1	41	11	3	2	0					7.30	211.70
A0709	35.02	54	31	31.84	9.47	20.81	15.26	9.63	13.16	8.74	0.00	2.04	4.21	28.42	42.11	1	22	6	3	2	0					35.02	995.27
BB0336	10.70	37	22U	14.41	5.00	16.17	10.50	0.94	1.00	0.00	0.00	0.00	0.00	11.50	16.50	1	40	0	3	2	0					10.70	123.05
BB0337	1.05	62	31	0.00	0.00	61.71	43.33	8.27	10.00	0.00	0.00	0.00	0.00	53.33	53.33	6	13	0	3	2	0			1.05	56.00		
BB0339	9.57	56	26	8.00	2.50	27.67	19.00	8.43	12.50	13.98	7.84	4.14	11.50	31.50	45.50	1	22	25	3	2	1	9.57	301.46				
BB0343	4.27	56	26	10.87	5.00	8.20	7.50	9.63	17.50	14.11	13.61	6.98	20.00	25.00	50.00	5	8	54	3	2	0					4.27	106.75
BB0425	0.33	49	22P	88.51	26.00	26.97	18.00	2.93	4.00	13.37	2.04	0.00	1.50	22.00	49.50	2	12	6	3	1	0					0.33	7.26
BB0439	1.74	68	26	24.41	7.00	18.76	12.50	18.21	27.00	17.27	4.23	3.31	8.00	39.50	54.50	1	20	17	3	1	1	1.74	68.73				
BB0442	0.42	59	26	40.10	11.50	22.87	16.50	13.42	19.50	6.01	0.58	3.50	7.00	36.00	54.50	1	13	10	3	1	1	0.42	15.12				
HCC10	107.28	77	21	8.69	2.00	11.19	8.00	12.45	19.50	8.63	0.00	1.05	2.00	27.50	31.50	6	31	4	3	1	0					107.28	2,950.20
HCC13	5.99	69	21	5.87	1.50	5.69	4.50	9.34	16.00	0.00	0.52	0.64	2.00	20.50	24.00	8	15	7	3	1	0					5.99	122.80
HCC13	1.03	69	21	5.87	1.50	5.69	4.50	9.34	16.00	0.00	0.52	0.64	2.00	20.50	24.00	8	15	7	3	1	0					0.00	0.00
pp247*	1.12	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.12	0.00
pp490*	0.23	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.23	0.00
pp523*	3.82	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.82	0.00
pp527*	0.91	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.91	0.00
pp528*	4.89	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					4.89	0.00
pp792*	1.13	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.13	0.00
pp878*	0.70	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.70	0.00
	209.87																					**11.73**	**385.31**	**1.05**	**56.00**	**196.06**	**4,659.29**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	SuitableAcreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0708	2010	65557	Repair Existing Training Area Roads, Phase 1					2.43	70.47
A0709	2010	65557	Repair Existing Training Area Roads, Phase 1					5.07	144.09
BB0336	2010	65557	Repair Existing Training Area Roads, Phase 1					1.04	11.96
BB0425	2010	65557	Repair Existing Training Area Roads, Phase 1					0.33	7.26
BB0439	2010	65557	Repair Existing Training Area Roads, Phase 1	0.93	36.74				
HCC10	2010	65557	Repair Existing Training Area Roads, Phase 1					3.64	100.10
pp523*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.46	0.00
pp528*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.19	0.00
			TOTAL REMOVALS	**0.93**	**36.74**	**0.00**	**0.00**	**13.16**	**333.88**

POST-PROJECT	**2010 SUB-TOTAL**		**non-contiguous habitat**		**2010 TOTAL**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**10.80**	**348.57**	**1.23**	**47.11**	**9.57**	**301.46**
Potentially Suitable Habitat	**1.05**	**56.00**	**0.00**	**0.00**	**1.05**	**56.00**
Future Potential Habitat	**182.90**	**4,325.41**	**0.00**	**0.00**	**182.90**	**4,325.41**
TOTAL	**194.75**	**4,729.98**	**1.23**	**47.11**	**193.52**	**4,682.87**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
22U = Slash Pine Underplanted
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Stands BB0439 and BB0442 will be non-contiguous as a result of project removals and cannot be counted towards the available foraging habitat for the parititon.

Appendix Table H-118. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **HCC-11R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0704	12.37	60	31	9.05	3.50	12.21	8.00	2.92	3.50	1.08	1.51	0.66	2.00	11.50	17.00	8	20	13	3	1	2.87	PS					12.37	142.26
A0708	7.30	73	21	23.62	6.00	12.48	8.50	12.47	20.50	3.84	2.34	0.70	2.50	29.00	37.50	1	41	11	3	2	4.52	PS					7.30	211.70
A0709	35.02	54	31	31.84	9.47	20.81	15.26	9.63	13.16	8.74	0.00	2.04	4.21	28.42	42.11	1	22	6	3	2	3.95	PS					35.02	995.27
BB0336	10.70	37	22U	14.41	5.00	16.17	10.50	0.94	1.00	0.00	0.00	0.00	0.00	11.50	16.50	1	40	0	3	2	3.11	PS					10.70	123.05
BB0337	1.05	62	31	0.00	0.00	61.71	43.33	8.27	10.00	0.00	0.00	0.00	0.00	53.33	53.33	6	13	0	3	2	3.42	PS					1.05	56.00
BB0339	9.57	56	26	8.00	2.50	27.67	19.00	8.43	12.50	13.98	7.84	4.14	11.50	31.50	45.50	1	22	25	3	2	3.63	PS					9.57	301.46
BB0343	4.27	56	26	10.87	5.00	8.20	7.50	9.63	17.50	14.11	13.61	6.98	20.00	25.00	50.00	5	8	54	3	2	3.38	PS					4.27	106.75
BB0425	0.33	49	22P	88.51	26.00	26.97	18.00	2.93	4.00	13.37	2.04	0.00	1.50	22.00	49.50	2	12	6	3	1	2.82	PS					0.33	7.26
BB0439	1.74	68	26	24.41	7.00	18.76	12.50	18.21	27.00	17.27	4.23	3.31	8.00	39.50	54.50	1	20	17	3	1	4.36	PS			1.74	68.73		
BB0442	0.42	59	26	40.10	11.50	22.87	16.50	13.42	19.50	6.01	0.58	3.50	7.00	36.00	54.50	1	13	10	3	1	3.92	PS					0.42	15.12
HCC10	107.28	77	21	8.69	2.00	11.19	8.00	12.45	19.50	8.63	0.00	1.05	2.00	27.50	31.50	6	31	4	3	1	3.97	PS					107.28	2,950.20
HCC13	5.99	69	21	5.87	1.50	5.69	4.50	9.34	16.00	0.00	0.52	0.64	2.00	20.50	24.00	8	15	7	3	1	3.61	PS					5.99	122.80
HCC13	1.03	69	21	5.87	1.50	5.69	4.50	9.34	16.00	0.00	0.52	0.64	2.00	20.50	24.00	8	15	7	3	1	3.61	PS					0.00	0.00
pp247*	1.12	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.12	0.00
pp490*	0.23	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.23	0.00
pp523*	3.82	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.82	0.00
pp527*	0.91	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.91	0.00
pp528*	4.89	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					4.89	0.00
pp792*	1.13	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.13	0.00
pp878*	0.70	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.70	0.00
	209.87																						**0.00**	**0.00**	**1.74**	**68.73**	**207.10**	**5,031.87**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	SuitableAcreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0708	2010	65557	Repair Existing Training Area Roads, Phase 1					2.43	70.47
A0709	2010	65557	Repair Existing Training Area Roads, Phase 1					5.07	144.09
BB0336	2010	65557	Repair Existing Training Area Roads, Phase 1					1.04	11.96
BB0425	2010	65557	Repair Existing Training Area Roads, Phase 1					0.33	7.26
BB0439	2010	65557	Repair Existing Training Area Roads, Phase 1			0.93	36.74		
HCC10	2010	65557	Repair Existing Training Area Roads, Phase 1					3.64	100.10
pp523*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.46	0.00
pp528*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.19	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.93**	**36.74**	**13.16**	**333.88**

POST-PROJECT	**2010**		**non-contiguous habitat**		**2010 TOTAL**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**0.81**	**31.99**	**0.81**	**31.99**	**0.00**	**0.00**
Future Potential Habitat	**193.94**	**4,697.99**	**0.42**	**15.12**	**193.52**	**4,682.87**
SUB-TOTAL	**194.75**	**4,729.98**	**1.23**	**47.11**	**193.52**	**4,682.87**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Bum:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
22U = Slash Pine Underplanted
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Stands BB0439 and BB0442 will be non-contiguous as a result of project removals and cannot be counted towards the available foraging habitat for the parititon.

Appendix Table H-119. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **J01-02R Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems >14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
J0104	10.20	81	21	5.06	2.00	2.28	2.00	15.72	23.00	22.84	7.41	4.14	12.00	25.00	39.00	1	25	39	3	2	0					10.20	255.00
J0111	0.02	1	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	2	0					0.00	0.00
J0119	0.05	2	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	2	0					0.00	0.00
J0120	21.88	113	13	2.94	1.00	2.54	1.50	8.10	17.50	31.06	12.62	6.48	20.50	19.00	40.50	2	18	64	3	2	0					21.88	415.72
J0121	10.45	62	32	18.95	6.50	16.81	13.00	18.32	32.00	1.08	4.46	2.21	7.00	45.00	58.50	2	26	16	3	2	1	10.45	470.25				
J0122	8.36	1	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	2	0					0.00	0.00
J0123	1.13	25	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	2	0					0.00	0.00
J0126	3.23	121	26	0.00	0.00	6.53	4.29	10.89	20.00	13.71	8.10	3.75	11.43	24.29	35.71	2	24	40	3	2	0					0.00	0.00
J0211	8.66	128	21	4.33	0.71	0.00	0.00	19.07	41.43	0.00	2.34	3.05	7.14	41.43	49.29	2	14	22	3	1	1	0.00	0.00				
J0212	36.81	86	21	8.84	2.50	18.90	14.50	15.44	25.00	0.00	0.00	1.44	3.00	39.50	45.00	1	23	4	3	1	1	36.81	1,454.00				
J0218	20.12	40	31	18.17	5.50	14.66	9.50	11.84	17.50	5.56	1.15	2.11	5.50	27.00	38.00	1	17	11	3	1	0					20.12	543.24
J0312	24.77	89	26	14.29	4.00	1.80	1.50	18.97	32.50	20.83	11.02	1.48	9.50	34.00	47.50	6	14	38	3	1	0			0.00	0.00		
J0319	3.62	89	26	33.16	10.00	21.29	20.00	38.61	60.00	0.00	0.00	0.00	0.00	80.00	90.00	2	13	0	3	1	1	3.62	289.60				
J0326	0.04	96	25	59.37	15.00	24.78	16.00	13.63	20.50	22.64	5.28	2.64	8.50	36.50	60.00	1	18	17	3	1	1	0.04	1.46				
J0329	0.09	46	25	47.54	15.00	30.67	21.00	9.80	15.50	11.95	1.46	0.39	2.00	36.50	53.50	2	40	4	3	1	1	0.00	0.00				
pp1025*	1.29	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.29	0.00
pp1074*	0.07	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp52*	5.68	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.68	0.00
pp53*	6.59	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					6.59	0.00
pp54*	4.83	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					4.83	0.00
pp56*	0.73	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp617*	22.36	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					22.36	0.00
pp683*	1.05	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.05	0.00
pp684*	8.73	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp913*	5.88	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.88	0.00
pp933*	26.04	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					26.04	0.00
pp978*	21.94	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					21.94	0.00
	254.62																					**50.92**	**2,215.31**	**0.00**	**0.00**	**147.86**	**1,213.96**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
J0122	2009	65554	Construct Training Area Roads Paved					0.19	0.00
J0123	2009	65554	Construct Training Area Roads Paved					0.10	0.00
J0319	2009	65554	Construct Training Area Roads Paved	2.87	229.60				
J0329	2009	65554	Construct Training Area Roads Paved	0.01	0.37				
pp933*	2009	65554	Construct Training Area Roads Paved					3.19	0.00
			TOTAL REMOVALS	**2.88**	**229.97**	**0.00**	**0.00**	**3.48**	**0.00**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**48.04**	**1,985.34**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**144.38**	**1,213.96**
TOTAL	**192.42**	**3,199.30**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
32 = Shortleaf Pine
NM = not managed

* Note: No pine data was collected for pine plantation stand less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-121. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **J02-02R Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems >14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
J0218	10.58	40	31	18.17	5.50	14.66	9.50	11.84	17.50	5.56	1.15	2.11	5.50	27.00	38.00	1	17	11	3	1	0					10.58	285.66
J0218	15.09	40	31U	18.17	5.50	14.66	9.50	11.84	17.50	5.56	1.15	2.11	5.50	27.00	38.00	1	17	11	3	1	0					15.09	407.43
J0221	7.23	55	26	39.25	10.50	7.85	5.00	18.83	32.50	6.37	1.32	1.65	4.00	37.50	52.00	8	22	10	3	1	0			7.23	271.13		
J0227	6.00	109	21	14.11	3.89	4.44	3.33	11.95	23.89	4.42	5.85	3.52	8.89	27.22	40.00	6	23	36	3	1	0					6.00	163.32
J0227	15.03	109	21U	14.11	3.89	4.44	3.33	11.95	23.89	4.42	5.85	3.52	8.89	27.22	40.00	6	23	36	3	1	0					15.03	409.12
pp1025*	0.85	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.85	0.00
pp246*	3.13	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp55*	1.47	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.47	0.00
pp974*	7.75	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					7.75	0.00
pp975*	6.03	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					6.03	0.00
R0203	2.08	25	31	176.82	40.00	0.00	0.00	11.24	15.00	0.00	0.00	0.00	0.00	15.00	55.00	4	20	0	3	1	0					0.00	0.00
R0211	0.35	68	31	9.10	3.16	3.58	2.63	16.40	32.11	20.40	17.55	9.45	26.32	34.74	64.21	6	3	57	3	1	0			0.00	0.00		
T0201	5.48	96	31	3.89	1.50	3.46	2.50	9.37	20.00	10.40	5.61	6.78	18.50	22.50	42.50	2	21	49	3	1	0					5.48	123.30
T0201	6.36	96	31U	3.89	1.50	3.46	2.50	9.37	20.00	10.40	5.61	6.78	18.50	22.50	42.50	2	21	49	3	1	0					6.36	143.10
T0202	10.52	109	26	5.40	2.00	5.04	4.00	21.99	38.50	1.27	0.76	2.17	3.50	42.50	48.00	2	28	10	3	1	1	10.52	447.10				
T0202	0.29	109	26U	5.40	2.00	5.04	4.00	21.99	38.50	1.27	0.76	2.17	3.50	42.50	48.00	2	28	10	3	1	1	0.29	12.33				
T0204	41.45	96	10	4.77	2.00	10.94	7.00	10.04	21.50	27.16	22.17	13.12	37.50	28.50	68.00	7	17	63	3	1	0					41.45	1,181.33
T0204	0.13	96	10U	4.77	2.00	10.94	7.00	10.04	21.50	27.16	22.17	13.12	37.50	28.50	68.00	7	17	63	3	1	0					0.13	3.71
T0214	6.30	73	21	23.38	6.00	2.72	2.00	5.69	10.00	21.45	6.89	5.72	14.50	12.00	32.50	5	24	60	3	1	0					6.30	75.60
T0220	2.85	109	13	0.00	0.00	4.24	3.50	22.11	46.00	99.66	21.73	7.04	28.50	49.50	78.00	5	3	52	3	2	0			0.00	0.00		
	148.97																					**10.81**	**459.43**	**7.23**	**271.13**	**122.52**	**2,792.57**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
pp974*	2009	65554	Construct Training Area Roads-OSUT Maneuver Corridor					0.04	0.00
T0201	2009	65554	Construct Training Area Roads-OSUT Maneuver Corridor					5.12	115.20
T0202	2009	65554	Construct Training Area Roads-OSUT Maneuver Corridor	4.69	199.33				
T0204	2009	65554	Construct Training Area Roads-OSUT Maneuver Corridor					6.52	185.82
			TOTAL REMOVALS	**4.69**	**199.33**	**0.00**	**0.00**	**11.68**	**301.02**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**6.12**	**260.10**
Potentially Suitable Habitat	**7.23**	**271.13**
Future Potential Habitat	**110.84**	**2,491.55**
TOTAL	**124.19**	**3,022.78**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
10U = Yellow Pine-Upland Hardwood Underplanted
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21U = Longleaf Pine Plantation Underplanted
26 = Mixed Pine-Longleaf
26U = Mixed Pine-Longleaf Underplanted
31 = Loblolly Pine
31U = Loblolly Pine Underplanted

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-121. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **J02-02R Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems >14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
J0218	10.58	40	31	18.17	5.50	14.66	9.50	11.84	17.50	5.56	1.15	2.11	5.50	27.00	38.00	1	17	11	3	1	0					10.58	285.66
J0218	15.09	40	31U	18.17	5.50	14.66	9.50	11.84	17.50	5.56	1.15	2.11	5.50	27.00	38.00	1	17	11	3	1	0					15.09	407.43
J0221	7.23	55	26	39.25	10.50	7.85	5.00	18.83	32.50	6.37	1.32	1.65	4.00	37.50	52.00	8	22	10	3	1	0			7.23	271.13		
J0227	6.00	109	21	14.11	3.89	4.44	3.33	11.95	23.89	4.42	5.85	3.52	8.89	27.22	40.00	6	23	36	3	1	0					6.00	163.32
J0227	15.03	109	21U	14.11	3.89	4.44	3.33	11.95	23.89	4.42	5.85	3.52	8.89	27.22	40.00	6	23	36	3	1	0					15.03	409.12
pp1025*	0.85	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.85	0.00
pp246*	3.13	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp55*	1.47	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.47	0.00
pp974*	7.75	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					7.75	0.00
pp975*	6.03	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					6.03	0.00
R0203	2.08	25	31	176.82	40.00	0.00	0.00	11.24	15.00	0.00	0.00	0.00	0.00	15.00	55.00	4	20	0	3	1	0					0.00	0.00
R0211	0.35	68	31	9.10	3.16	3.58	2.63	16.40	32.11	20.40	17.55	9.45	26.32	34.74	64.21	6	3	57	3	1	0			0.00	0.00		
T0201	5.48	96	31	3.89	1.50	3.46	2.50	9.37	20.00	10.40	5.61	6.78	18.50	22.50	42.50	2	21	49	3	1	0					5.48	123.30
T0201	6.36	96	31U	3.89	1.50	3.46	2.50	9.37	20.00	10.40	5.61	6.78	18.50	22.50	42.50	2	21	49	3	1	0					6.36	143.10
T0202	10.52	109	26	5.40	2.00	5.04	4.00	21.99	38.50	1.27	0.76	2.17	3.50	42.50	48.00	2	28	10	3	1	1	10.52	447.10				
T0202	0.29	109	26U	5.40	2.00	5.04	4.00	21.99	38.50	1.27	0.76	2.17	3.50	42.50	48.00	2	28	10	3	1	1	0.29	12.33				
T0204	41.45	96	10	4.77	2.00	10.94	7.00	10.04	21.50	27.16	22.17	13.12	37.50	28.50	68.00	7	17	63	3	1	0					41.45	1,181.33
T0204	0.13	96	10U	4.77	2.00	10.94	7.00	10.04	21.50	27.16	22.17	13.12	37.50	28.50	68.00	7	17	63	3	1	0					0.13	3.71
T0214	6.30	73	21	23.38	6.00	2.72	2.00	5.69	10.00	21.45	6.89	5.72	14.50	12.00	32.50	5	24	60	3	1	0					6.30	75.60
T0220	2.85	109	13	0.00	0.00	4.24	3.50	22.11	46.00	99.66	21.73	7.04	28.50	49.50	78.00	5	3	52	3	2	0			0.00	0.00		
	148.97																					**10.81**	**459.43**	**7.23**	**271.13**	**122.52**	**2,792.57**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
pp974*	2009	65554	Construct Training Area Roads-OSUT Maneuver Corridor					0.04	0.00
T0201	2009	65554	Construct Training Area Roads-OSUT Maneuver Corridor					5.12	115.20
T0202	2009	65554	Construct Training Area Roads-OSUT Maneuver Corridor	4.69	199.33				
T0204	2009	65554	Construct Training Area Roads-OSUT Maneuver Corridor					6.52	185.82
			TOTAL REMOVALS	**4.69**	**199.33**	**0.00**	**0.00**	**11.68**	**301.02**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**6.12**	**260.10**
Potentially Suitable Habitat	**7.23**	**271.13**
Future Potential Habitat	**110.84**	**2,491.55**
TOTAL	**124.19**	**3,022.78**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
10U = Yellow Pine-Upland Hardwood Underplanted
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21U = Longleaf Pine Plantation Underplanted
26 = Mixed Pine-Longleaf
26U = Mixed Pine-Longleaf Underplanted
31 = Loblolly Pine
31U = Loblolly Pine Underplanted

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-122. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **J02-02R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems >14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
J0218	10.58	40	31	18.17	5.50	14.66	9.50	11.84	17.50	5.56	1.15	2.11	5.50	27.00	38.00	1	17	11	3	1	3.66	PS					10.58	285.66
J0218	15.09	40	31U	18.17	5.50	14.66	9.50	11.84	17.50	5.56	1.15	2.11	5.50	27.00	38.00	1	17	11	3	1	3.66	PS					15.09	407.43
J0221	7.23	55	26	39.25	10.50	7.85	5.00	18.83	32.50	6.37	1.32	1.65	4.00	37.50	52.00	8	22	10	3	1	3.99	PS					7.23	271.13
J0227	6.00	109	21	14.11	3.89	4.44	3.33	11.95	23.89	4.42	5.85	3.52	8.89	27.22	40.00	6	23	36	3	1	3.76	PS					6.00	163.32
J0227	15.03	109	21U	14.11	3.89	4.44	3.33	11.95	23.89	4.42	5.85	3.52	8.89	27.22	40.00	6	23	36	3	1	3.76	PS					15.03	409.12
pp1025*	0.85	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.85	0.00
pp246*	3.13	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp55*	1.47	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.47	0.00
pp974*	7.75	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					7.75	0.00
pp975*	6.03	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					6.03	0.00
R0203	2.08	25	31	176.82	40.00	0.00	0.00	11.24	15.00	0.00	0.00	0.00	0.00	15.00	55.00	4	20	0	3	1	3.18	NH					0.00	0.00
R0211	0.35	68	31	9.10	3.16	3.58	2.63	16.40	32.11	20.40	17.55	9.45	26.32	34.74	64.21	6	3	57	3	1	3.76	PS					0.00	0.00
T0201	5.48	96	31	3.89	1.50	3.46	2.50	9.37	20.00	10.40	5.61	6.78	18.50	22.50	42.50	2	21	49	3	1	3.94	PS					5.48	123.30
T0201	6.36	96	31U	3.89	1.50	3.46	2.50	9.37	20.00	10.40	5.61	6.78	18.50	22.50	42.50	2	21	49	3	1	3.94	PS					6.36	143.10
T0202	10.52	109	26	5.40	2.00	5.04	4.00	21.99	38.50	1.27	0.76	2.17	3.50	42.50	48.00	2	28	10	3	1	4.65	CS	10.52	447.10				
T0202	0.29	109	26U	5.40	2.00	5.04	4.00	21.99	38.50	1.27	0.76	2.17	3.50	42.50	48.00	2	28	10	3	1	4.65	CS	0.29	12.33				
T0204	41.45	96	10	4.77	2.00	10.94	7.00	10.04	21.50	27.16	22.17	13.12	37.50	28.50	68.00	7	17	63	3	1	3.55	PS					41.45	1,181.33
T0204	0.13	96	10U	4.77	2.00	10.94	7.00	10.04	21.50	27.16	22.17	13.12	37.50	28.50	68.00	7	17	63	3	1	3.55	PS					0.13	3.71
T0214	6.30	73	21	23.38	6.00	2.72	2.00	5.69	10.00	21.45	6.89	5.72	14.50	12.00	32.50	5	24	60	3	1	3.22	PS					6.30	75.60
T0220	2.85	109	13	0.00	0.00	4.24	3.50	22.11	46.00	99.66	21.73	7.04	28.50	49.50	78.00	5	3	52	3	2	4.12	PS			0.00	0.00		
	148.97																						**10.81**	**459.43**	**0.00**	**0.00**	**129.75**	**3,063.70**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
pp974*	2009	65554	Construct Training Area Roads-OSUT Maneuver Corridor					0.04	0.00
T0201	2009	65554	Construct Training Area Roads-OSUT Maneuver Corridor					5.12	115.20
T0202	2009	65554	Construct Training Area Roads-OSUT Maneuver Corridor	4.69	199.33				
T0204	2009	65554	Construct Training Area Roads-OSUT Maneuver Corridor					6.52	185.82
			TOTAL REMOVALS	**4.69**	**199.33**	**0.00**	**0.00**	**11.68**	**301.02**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**6.12**	**260.10**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**118.07**	**2,762.68**
TOTAL	**124.19**	**3,022.78**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
10U = Yellow Pine-Upland Hardwood Underplanted
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21U = Longleaf Pine Plantation Underplanted
26 = Mixed Pine-Longleaf
26U = Mixed Pine-Longleaf Underplanted
31 = Loblolly Pine
31U = Loblolly Pine Underplanted

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-123. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **J06-03**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems >14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D1202	32.73	61	31	33.98	9.00	29.77	20.50	15.84	25.00	3.17	2.49	0.91	3.50	45.50	58.00	2	31	7	3	1	1	32.73	1,489.22				
D1205	0.01	75	26	46.21	14.00	19.05	12.50	11.62	17.00	17.21	5.91	2.00	7.50	29.50	51.00	1	20	21	3	1	0					0.01	0.30
D1217	31.64	47	31	20.19	5.00	24.23	17.50	10.89	16.50	14.09	1.44	0.74	2.00	34.00	41.00	2	36	6	3	1	1	31.64	1,075.76				
D1217	0.18	47	31U	20.19	5.00	24.23	17.50	10.89	16.50	14.09	1.44	0.74	2.00	34.00	41.00	2	36	6	3	1	1	0.18	6.12				
D1218	1.91	47	31	27.56	9.00	37.12	25.50	8.42	12.00	21.03	1.22	1.28	3.00	37.50	49.50	1	26	5	3	1	1	1.91	71.63				
D1225	11.37	46	10U	3.54	1.00	24.76	18.50	14.50	20.00	9.09	3.97	0.33	3.00	38.50	42.50	1	33	10	3	1	1	11.37	437.75				
D1227	0.07	51	21	19.17	4.29	11.97	10.00	27.07	37.14	3.23	6.48	2.09	7.14	47.14	58.57	2	20	18	3	1	1	0.07	3.30				
D1242	0.22	46	31	5.85	2.00	18.42	13.50	11.02	17.00	11.57	4.52	3.81	8.00	30.50	40.50	1	22	22	3	1	1	0.22	6.71				
D1242	0.01	46	31U	5.85	2.00	18.42	13.50	11.02	17.00	11.57	4.52	3.81	8.00	30.50	40.50	1	22	22	3	1	1	0.01	0.31				
J0628	1.43	82	21	14.23	4.00	7.96	6.50	21.40	31.00	1.98	2.19	1.00	3.00	37.50	44.50	2	28	10	3	1	1	1.43	53.63				
J0633	35.50	74	21	7.97	2.50	19.77	14.50	11.68	16.50	3.80	2.25	0.31	2.00	31.00	35.50	2	20	8	3	1	1	35.50	1,100.50				
J0634	10.55	69	66***	20.41	5.50	7.26	5.50	6.67	9.00	35.01	20.48	7.40	23.50	14.50	43.50	7	22	67	3	1	0					0.00	0.00
J0635	13.55	59	31	12.83	2.50	9.52	7.00	17.57	25.00	1.33	0.59	0.00	0.50	32.00	35.00	3	30	2	3	1	1	13.55	433.60				
J0637	0.13	85	31	18.20	5.79	11.66	8.42	15.52	22.63	5.19	2.23	1.29	3.68	31.05	40.53	8	11	11	3	1	0			0.13	4.04		
J0638	1.30	93	53**	9.98	3.50	6.11	4.50	5.80	8.50	32.61	20.33	9.17	28.50	13.00	45.00	4	11	71	3	1	0					0.00	0.00
J0639	37.35	93	26	23.19	7.00	7.79	5.50	13.20	20.00	12.28	6.69	0.78	5.50	25.50	38.00	1	25	26	3	1	0					37.35	952.43
J0640	53.47	67	21	18.79	5.50	17.63	13.00	13.75	22.00	5.60	3.35	3.15	7.00	35.00	47.50	2	24	17	3	1	1	53.47	1,871.45				
T0406	27.27	52	26	23.02	6.50	20.08	14.50	16.88	22.00	4.77	2.00	1.31	3.50	36.50	46.50	1	30	8	3	1	1	27.27	995.36				
T0407	35.94	70	21	10.40	3.00	7.19	5.50	16.36	24.00	17.69	9.18	1.51	9.00	29.50	41.50	1	28	31	3	1	0					35.94	1,060.23
T0416	5.66	55	25	10.77	3.00	22.08	15.00	14.46	21.50	8.25	4.54	3.25	7.50	36.50	47.00	1	28	18	3	1	1	5.66	206.59				
	300.29																					**215.01**	**7,751.93**	**0.13**	**4.04**	**73.30**	**2,012.96**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D1202	2009	65554	Construct Training Area Roads, Paved	5.11	232.51				
D1202	2009	69743	Southern Training Area Infrastructure-Maneuver Area	4.50	204.75				
D1202	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	1.89	86.00				
D1217	2009	69743	Southern Training Area Infrastructure-Maneuver Area	8.51	289.34				
D1217	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	4.36	148.24				
D1218	2009	69743	Southern Training Area Infrastructure-Maneuver Area	0.12	4.50				
D1225	2009	69743	Southern Training Area Infrastructure-Maneuver Area	2.91	112.04				
D1225	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	2.74	105.49				
D1242	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails	0.04	1.22				
J0628	2009	65554	Construct Training Area Roads, Paved	0.46	17.25				
J0635	2009	65554	Construct Training Area Roads, Pave	3.38	108.16				
J0640	2009	65554	Construct Training Area Roads, Paved	1.23	43.05				
J0640	2009	69743	Southern Training Area Infrastructure-Maneuver Area	1.74	60.90				
T0407	2009	69743	Southern Training Area Infrastructure-Maneuver Area					3.90	115.05
T0407	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					3.40	100.30
			TOTAL REMOVALS	**36.99**	**1,413.45**	**0.00**	**0.00**	**7.30**	**215.35**

POST-PROJECT		**2009**
	Acres	**BA**
Suitable Habitat	**178.02**	**6,338.48**
Potentially Suitable Habitat	**0.13**	**4.04**
Future Potential Habitat	**66.00**	**1,797.61**
SUB-TOTAL	**244.15**	**8,140.13**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Type Burn:
0=no data available
1=non-growing season
2=growing season

Forest Type:
10U = Yellow Pine-Upland Hardwood Underplanted
21 = Longleaf Pine
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31U = Loblolly Pine Underplanted
53** = White Oak-Red Oak-Hickory (managed for hardwoods)
66*** = Oak-Hickory (managed for hardwoods)

Stand Score
0=Unsuitable
1=Suitable

Appendix Table H-124. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **J06-03**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems >14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
D1202	32.73	61	31	33.98	9.00	29.77	20.50	15.84	25.00	3.17	2.49	0.91	3.50	45.50	58.00	2	31	7	3	1	4.56	PS					32.73	1,489.22
D1205	0.01	75	26	46.21	14.00	19.05	12.50	11.62	17.00	17.21	5.91	2.00	7.50	29.50	51.00	1	20	21	3	1	3.80	PS					0.01	0.30
D1217	31.64	47	31	20.19	5.00	24.23	17.50	10.89	16.50	14.09	1.44	0.74	2.00	34.00	41.00	2	36	6	3	1	3.96	PS					31.64	1,075.76
D1217	0.18	47	31U	20.19	5.00	24.23	17.50	10.89	16.50	14.09	1.44	0.74	2.00	34.00	41.00	2	36	6	3	1	3.96	PS					0.18	6.12
D1218	1.91	47	31	27.56	9.00	37.12	25.50	8.42	12.00	21.03	1.22	1.28	3.00	37.50	49.50	1	26	5	3	1	3.56	PS					1.91	71.63
D1225	11.37	46	10U	3.54	1.00	24.76	18.50	14.50	20.00	9.09	3.97	0.33	3.00	38.50	42.50	1	33	10	3	1	4.27	PS					11.37	437.75
D1227	0.07	51	21	19.17	4.29	11.97	10.00	27.07	37.14	3.23	6.48	2.09	7.14	47.14	58.57	2	20	18	3	1	4.38	PS					0.07	3.30
D1242	0.22	46	31	5.85	2.00	18.42	13.50	11.02	17.00	11.57	4.52	3.81	8.00	30.50	40.50	1	22	22	3	1	3.70	PS					0.22	6.71
D1242	0.01	46	31U	5.85	2.00	18.42	13.50	11.02	17.00	11.57	4.52	3.81	8.00	30.50	40.50	1	22	22	3	1	3.70	PS					0.01	0.31
J0628	1.43	82	21	14.23	4.00	7.96	6.50	21.40	31.00	1.98	2.19	1.00	3.00	37.50	44.50	2	28	10	3	1	4.60	CS	1.43	53.63				
J0633	35.50	74	21	7.97	2.50	19.77	14.50	11.68	16.50	3.80	2.25	0.31	2.00	31.00	35.50	2	20	8	3	1	4.00	PS					35.50	1,100.50
J0634	10.55	69	66***	20.41	5.50	7.26	5.50	6.67	9.00	35.01	20.48	7.40	23.50	14.50	43.50	7	22	67	3	1	2.96	PS					0.00	0.00
J0635	13.55	59	31	12.83	2.50	9.52	7.00	17.57	25.00	1.33	0.59	0.00	0.50	32.00	35.00	3	30	2	3	1	4.25	PS					13.55	433.60
J0637	0.13	85	31	18.20	5.79	11.66	8.42	15.52	22.63	5.19	2.23	1.29	3.68	31.05	40.53	8	11	11	3	1	3.89	PS					0.13	4.04
J0638	1.30	93	53**	9.98	3.50	6.11	4.50	5.80	8.50	32.61	20.33	9.17	28.50	13.00	45.00	4	11	71	3	1	3.10	PS					0.00	0.00
J0639	37.35	93	26	23.19	7.00	7.79	5.50	13.20	20.00	12.28	6.69	0.78	5.50	25.50	38.00	1	25	26	3	1	4.14	PS					37.35	952.43
J0640	53.47	67	21	18.79	5.50	17.63	13.00	13.75	22.00	5.60	3.35	3.15	7.00	35.00	47.50	2	24	17	3	1	4.32	PS					53.47	1,871.45
T0406	27.27	52	26	23.02	6.50	20.08	14.50	16.88	22.00	4.77	2.00	1.31	3.50	36.50	46.50	1	30	8	3	1	4.39	PS					27.27	995.36
T0407	35.94	70	21	10.40	3.00	7.19	5.50	16.36	24.00	17.69	9.18	1.51	9.00	29.50	41.50	1	28	31	3	1	4.14	PS					35.94	1,060.23
T0416	5.66	55	25	10.77	3.00	22.08	15.00	14.46	21.50	8.25	4.54	3.25	7.50	36.50	47.00	1	28	18	3	1	4.18	PS					5.66	206.59
	300.29																						**1.43**	**53.63**	**0.00**	**0.00**	**287.01**	**9,715.30**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
D1202	2009	65554	Construct Training Area Roads, Paved					5.11	232.51
D1202	2009	69743	Southern Training Area Infrastructure-Maneuver Area					4.50	204.75
D1202	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					1.89	86.00
D1217	2009	69743	Southern Training Area Infrastructure-Maneuver Area					8.51	289.34
D1217	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					4.36	148.24
D1218	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.12	4.50
D1225	2009	69743	Southern Training Area Infrastructure-Maneuver Area					2.91	112.04
D1225	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					2.74	105.49
D1242	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					0.04	1.22
J0628	2009	65554	Construct Training Area Roads, Paved	0.46	17.25				
J0635	2009	65554	Construct Training Area Roads, Paved					3.38	108.16
J0640	2009	65554	Construct Training Area Roads, Paved					1.23	43.05
J0640	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.74	60.90
T0407	2009	69743	Southern Training Area Infrastructure-Maneuver Area					3.90	115.05
T0407	2009	69743	Southern Training Area Infrastructure-Upgrade Tank Trails					3.40	100.30
			TOTAL REMOVALS	**0.46**	**17.25**	**0.00**	**0.00**	**43.83**	**1,611.55**

POST-PROJECT

	2009 Acres	2009 BA
Suitable Habitat	**0.97**	**36.38**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**243.18**	**8,103.75**
SUB-TOTAL	**244.15**	**8,140.13**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10U = Yellow Pine-Upland Hardwood Underplanted
21 = Longleaf Pine
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31U = Loblolly Pine Underplanted
53** = White Oak-Red Oak-Hickory (managed for hardwoods)
66*** = Oak-Hickory (managed for hardwoods)

Appendix Table H-125. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K02-01 Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0918	3.48	65	21	27.41	7.65	14.93	10.59	12.05	18.24	16.03	3.96	4.89	9.41	28.82	45.88	6	25	25	3	1	0					3.48	100.29
O0928	0.44	63	31	81.35	24.74	31.37	21.58	6.96	10.00	22.27	5.83	3.93	10.53	31.58	66.84	9	7	20	3	1	0			0.44	13.90		
O0929	18.54	63	21	16.06	4.50	10.84	8.00	11.70	17.50	4.32	1.65	0.00	1.00	25.50	31.00	2	29	7	3	1	0					18.54	472.77
O0931	58.36	98	26	37.01	11.50	25.65	17.50	6.14	8.00	18.33	5.62	2.00	6.50	25.50	43.50	2	47	19	3	1	0					58.36	1,488.18
O0935	65.34	73	21	55.34	15.50	18.58	14.00	11.57	15.00	10.60	5.16	2.81	8.00	29.00	52.50	1	25	21	3	1	0					65.34	1,894.86
O0936	37.11	103	22P	74.41	22.38	16.57	10.95	2.35	3.33	4.52	0.00	0.00	0.00	14.29	36.67	2	19	0	3	1	0					37.11	530.30
O0937	0.33	45	26	113.48	30.00	23.34	16.00	6.22	9.50	19.63	2.56	0.66	3.00	25.50	58.50	1	39	10	3	1	0					0.00	0.00
O0939	3.09	42	22P	152.83	50.00	35.82	20.00	0.91	1.43	6.01	0.00	0.00	0.00	21.43	71.43	2	26	0	3	1	0					3.09	66.22
O0940	3.41	58	22P	71.70	23.33	20.22	13.33	5.76	6.67	43.63	0.00	0.00	0.00	20.00	43.33	4	30	0	3	1	0					3.41	68.20
O0942	50.23	90	11	22.89	7.50	10.68	7.50	6.63	10.00	16.34	4.77	4.78	11.00	17.50	36.00	7	15	36	3	1	0					50.23	879.03
O0944	6.15	40	22P	225.43	55.00	21.01	13.33	2.36	3.33	23.97	0.00	0.00	0.00	16.67	71.67	2	18	0	3	1	0					6.15	102.52
O0950	10.21	80	31	61.89	16.50	14.34	11.00	12.41	20.00	18.86	7.18	2.86	9.00	31.00	56.50	7	29	27	3	1	0			10.21	316.51		
	256.69																					**0.00**	**0.00**	**10.65**	**330.41**	**245.71**	**5,602.37**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0918	2009	65383	Stationary Tank Range (ST2)					3.48	100.29
O0928	2009	65383	Stationary Tank Range (ST2)			0.32	10.11		
O0928	2009	65383	Construction Limits for Stationary Tank Range (ST2)			0.08	2.53		
O0929	2009	65383	Stationary Tank Range (ST2)					15.74	401.37
O0929	2009	65383	Construction Limits for Stationary Tank Range (ST2)					1.03	26.27
O0931	2009	65383	Stationary Tank Range (ST2)					58.36	1,488.18
O0935	2009	65383	Stationary Tank Range (ST2)					15.65	453.85
O0935	2009	65383	Construction Limits for Stationary Tank Range (ST2)					18.82	545.78
O0936	2009	65383	Stationary Tank Range (ST2)					29.05	415.12
O0936	2009	65383	Construction Limits for Stationary Tank Range (ST2)					8.06	115.18
O0939	2009	65383	Stationary Tank Range (ST2)					1.19	25.50
O0939	2009	65383	Construction Limits for Stationary Tank Range (ST2)					1.62	34.72
O0942	2009	65383	Construction Limits for Stationary Tank Range (ST2)					9.99	174.83
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.40**	**12.64**	**162.99**	**3,781.09**
O0939	2011	65383	Beaten Area for Stationary Tank Range (ST2)					0.28	6.00
O0940	2011	65383	Beaten Area for Stationary Tank Range (ST2)					2.10	42.00
O0942	2011	65383	Beaten Area for Stationary Tank Range (ST2)					1.69	29.58
O0944	2011	65383	Beaten Area for Stationary Tank Range (ST2)					3.59	59.85
O0950	2011	65383	Beaten Area for Stationary Tank Range (ST2)			0.08	2.48		
				0.00	**0.00**	**0.08**	**2.48**	**7.66**	**137.43**
			TOTAL REMOVALS	**0.00**	**0.00**	**0.48**	**15.12**	**170.65**	**3,918.52**

POST-PROJECT	**2009**		**2011 SUB-TOTAL**		**non-contiguous habitat**		**2011 TOTAL**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**10.25**	**317.77**	**10.17**	**315.29**	**10.13**	**314.03**	**0.04**	**1.26**
Future Potential Habitat	**82.72**	**1,821.28**	**75.06**	**1,683.85**	**2.56**	**42.67**	**72.50**	**1,641.18**
TOTAL	**92.97**	**2,139.05**	**85.23**	**1,999.14**	**12.69**	**356.70**	**72.54**	**1,642.44**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
11 = Longleaf Pine-Hardwood
21 = Longleaf Pine
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Stands O0944 and O0950 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition.

Appendix Table H-126. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K02-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0918	3.48	65	21	27.41	7.65	14.93	10.59	12.05	18.24	16.03	3.96	4.89	9.41	28.82	45.88	6	25	25	3	1	3.66	PS					3.48	100.29
O0928	0.44	63	31	81.35	24.74	31.37	21.58	6.96	10.00	22.27	5.83	3.93	10.53	31.58	66.84	9	7	20	3	1	2.62	PS					0.44	13.90
O0929	18.54	63	21	16.06	4.50	10.84	8.00	11.70	17.50	4.32	1.65	0.00	1.00	25.50	31.00	2	29	7	3	1	4.05	PS					18.54	472.77
O0931	58.36	98	26	37.01	11.50	25.65	17.50	6.14	8.00	18.33	5.62	2.00	6.50	25.50	43.50	2	47	19	3	1	3.63	PS					58.36	1,488.18
O0935	65.34	73	21	55.34	15.50	18.58	14.00	11.57	15.00	10.60	5.16	2.81	8.00	29.00	52.50	1	25	21	3	1	3.90	PS					65.34	1,894.86
O0936	37.11	103	22P	74.41	22.38	16.57	10.95	2.35	3.33	4.52	0.00	0.00	0.00	14.29	36.67	2	19	0	3	1	3.08	PS					37.11	530.30
O0937	0.33	45	26	113.48	30.00	23.34	16.00	6.22	9.50	19.63	2.56	0.66	3.00	25.50	58.50	1	39	10	3	1	3.29	PS					0.00	0.00
O0939	3.09	42	22P	152.83	50.00	35.82	20.00	0.91	1.43	6.01	0.00	0.00	0.00	21.43	71.43	2	26	0	3	1	2.90	PS					3.09	66.22
O0940	3.41	58	22P	71.70	23.33	20.22	13.33	5.76	6.67	43.63	0.00	0.00	0.00	20.00	43.33	4	30	0	3	1	3.29	PS					3.41	68.20
O0942	50.23	90	11	22.89	7.50	10.68	7.50	6.63	10.00	16.34	4.77	4.78	11.00	17.50	36.00	7	15	36	3	1	3.00	PS					50.23	879.03
O0944	6.15	40	22P	225.43	55.00	21.01	13.33	2.36	3.33	23.97	0.00	0.00	0.00	16.67	71.67	2	18	0	3	1	2.75	PS					6.15	102.52
O0950	10.21	80	31	61.89	16.50	14.34	11.00	12.41	20.00	18.86	7.18	2.86	9.00	31.00	56.50	7	29	27	3	1	3.61	PS					10.21	316.51
	256.69																						**0.00**	**0.00**	**0.00**	**0.00**	**256.36**	**5,932.78**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0918	2009	65383	Stationary Tank Range (ST2)					3.48	100.29
O0928	2009	65383	Stationary Tank Range (ST2)					0.32	10.11
O0928	2009	65383	Construction Limits for Stationary Tank Range (ST2)					0.08	2.53
O0929	2009	65383	Stationary Tank Range (ST2)					15.74	401.37
O0929	2009	65383	Construction Limits for Stationary Tank Range (ST2)					1.03	26.27
O0931	2009	65383	Stationary Tank Range (ST2)					58.36	1,488.18
O0935	2009	65383	Stationary Tank Range (ST2)					15.65	453.85
O0935	2009	65383	Construction Limits for Stationary Tank Range (ST2)					18.82	545.78
O0936	2009	65383	Stationary Tank Range (ST2)					29.05	415.12
O0936	2009	65383	Construction Limits for Stationary Tank Range (ST2)					8.06	115.18
O0939	2009	65383	Stationary Tank Range (ST2)					1.19	25.50
O0939	2009	65383	Construction Limits for Stationary Tank Range (ST2)					1.62	34.72
O0942	2009	65383	Construction Limits for Stationary Tank Range (ST2)					9.99	174.83
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**163.39**	**3,793.73**
O0939	2011	65383	Beaten Area for Stationary Tank Range (ST2)					0.28	6.00
O0940	2011	65383	Beaten Area for Stationary Tank Range (ST2)					2.10	42.00
O0942	2011	65383	Beaten Area for Stationary Tank Range (ST2)					1.69	29.58
O0944	2011	65383	Beaten Area for Stationary Tank Range (ST2)					3.59	59.85
O0950	2011	65383	Beaten Area for Stationary Tank Range (ST2)					0.08	2.48
				0.00	**0.00**	**0.00**	**0.00**	**7.74**	**139.91**
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**171.13**	**3,933.64**

POST-PROJECT	**2009**		**2011 SUB-TOTAL**		**non-contiguous habitat**		**2011 TOTAL**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**92.97**	**2,139.05**	**85.23**	**1,999.14**	**12.69**	**356.70**	**72.54**	**1,642.44**
TOTAL	**92.97**	**2,139.05**	**85.23**	**1,999.14**	**12.69**	**356.70**	**72.54**	**1,642.44**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
11 = Longleaf Pine-Hardwood
21 = Longleaf Pine
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Stands O0944 and O0950 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition.

Appendix Table H-127. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K08-03 Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems >14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K0807	60.26	73	21	18.82	5.50	8.63	6.50	17.45	26.00	23.05	11.84	1.50	10.00	32.50	48.00	2	28	34	3	1	1	60.26	1,958.45				
K0820	37.72	73	31	9.82	2.50	12.26	10.00	21.62	32.50	3.88	3.76	2.51	5.50	42.50	50.50	2	40	16	3	1	1	37.72	1,603.10				
pp704*	28.84	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					28.84	0.00
pp705*	0.09	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.09	0.00
	126.91																					**97.98**	**3,561.55**	**0.00**	**0.00**	**28.93**	**0.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K0807	2009	65554	Construct Training Area Roads Paved	9.72	315.90				
K0820	2009	65554	Construct Training Area Roads Paved	2.78	118.15				
			TOTAL REMOVALS	**12.50**	**434.05**	**0.00**	**0.00**	**0.00**	**0.00**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**85.48**	**3,127.50**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**28.93**	**0.00**
TOTAL	**114.41**	**3,127.50**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Type Burn:
0=no data available
1=non-growing season
2=growing season

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine

Stand Score
0=Unsuitable
1=Suitable

*** Note:** No pine data provided for stands less than 30 years of age.

Appendix Table H-128. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K08-03R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems >14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K0807	60.26	73	21	18.82	5.50	8.63	6.50	17.45	26.00	23.05	11.84	1.50	10.00	32.50	48.00	2	28	34	3	1	4.14	PS					60.26	1958.45
K0820	37.72	73	31	9.82	2.50	12.26	10.00	21.62	32.50	3.88	3.76	2.51	5.50	42.50	50.50	2	40	16	3	1	4.79	CS	37.72	1,603.10				
pp704*	28.84	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					28.84	0.00
pp705*	0.09	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.09	0.00
	126.91																						**37.72**	**1,603.10**	**0.00**	**0.00**	**89.19**	**1,958.45**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K0807	2009	65554	Construct Training Area Roads Paved					9.72	315.90
K0820	2009	65554	Construct Training Area Roads Paved	2.78	118.15				
			TOTAL REMOVALS	**2.78**	**118.15**	**0.00**	**0.00**	**9.72**	**315.90**

POST-PROJECT

	2009	
	Acres	**BA**
Suitable Habitat	**34.94**	**1,484.95**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**79.47**	**1,642.55**
TOTAL	**114.41**	**3,127.50**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine

*** Note:** No pine data provided for stands less than 30 years of age.

Appendix Table H-129. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K08-04**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems >14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K0807	49.95	73	21	18.82	5.50	8.63	6.50	17.45	26.00	23.05	11.84	1.50	10.00	32.50	48.00	2	28	34	3	1	1	49.95	1,623.38				
K0810	70.08	73	31	13.84	4.00	18.31	14.00	17.01	26.00	7.31	3.82	1.26	4.50	40.00	48.50	1	33	13	3	1	1	70.08	2,803.20				
K0820	23.14	73	31	9.82	2.50	12.26	10.00	21.62	32.50	3.88	3.76	2.51	5.50	42.50	50.50	2	40	16	3	1	1	23.14	983.45				
K0902	6.45	18	31P	328.62	84.00	16.09	10.00	0.98	1.00	0.00	0.00	0.00	0.00	11.00	95.00	2	21	0	3	1	0					6.45	70.95
K0909	31.97	90	31	5.42	2.00	13.47	9.33	15.67	23.33	10.06	2.33	2.00	4.00	32.67	38.67	1	30	13	3	1	1	31.97	1,044.46				
K0912	1.99	91	21	28.44	7.50	13.65	9.50	13.23	20.00	20.73	11.28	0.00	7.50	29.50	44.50	5	29	30	3	2	0					1.99	58.71
K0915	5.46	82	26	21.08	6.50	11.02	8.50	18.25	29.50	24.11	17.43	3.66	17.50	38.00	62.00	1	19	42	3	2	1	5.46	207.48				
pp705*	3.35	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.35	0.00
	192.39																					**180.60**	**6,661.97**	**0.00**	**0.00**	**11.79**	**129.66**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K0807	2009	65554	Construct Training Area Roads, Paved	2.14	69.55				
K0810	2009	65554	Construct Training Area Roads, Paved	5.19	207.60				
K0820	2009	65554	Construct Training Area Roads, Paved	2.48	105.40				
K0909	2009	65554	Construct Training Area Roads, Paved	1.46	47.70				
K0912	2009	65554	Construct Training Area Roads, Paved					1.36	40.12
K0915	2009	65554	Construct Training Area Roads, Paved	2.51	95.38				
			TOTAL REMOVALS	**13.78**	**525.63**	**0.00**	**0.00**	**1.36**	**40.12**

POST-PROJECT	**2009 SUB-TOTAL**		**non-contiguous habitat**		**2009 TOTAL**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**166.82**	**6,136.34**	**30.51**	**996.76**	**136.31**	**5,139.58**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**10.43**	**89.54**	**7.08**	**89.54**	**3.35**	**0.00**
SUB-TOTAL	**177.25**	**6,225.88**	**37.59**	**1,086.30**	**139.66**	**5,139.58**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31P = Loblolly Pine Plantation

*** Note:** No pine data was provided for pine plantation stands less then 30 years old.
Stands K0902, K0909 and K0912 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition.

Appendix Table H-130. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K08-04**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems >14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K0807	49.95	73	21	18.82	5.50	8.63	6.50	17.45	26.00	23.05	11.84	1.50	10.00	32.50	48.00	2	28	34	3	1	4.08	PS					49.95	1,623.38
K0810	70.08	73	31	13.84	4.00	18.31	14.00	17.01	26.00	7.31	3.82	1.26	4.50	40.00	48.50	1	33	13	3	1	4.28	PS					70.08	2,803.20
K0820	23.14	73	31	9.82	2.50	12.26	10.00	21.62	32.50	3.88	3.76	2.51	5.50	42.50	50.50	2	40	16	3	1	4.53	CS	23.14	983.45				
K0902	6.45	18	31P	328.62	84.00	16.09	10.00	0.98	1.00	0.00	0.00	0.00	0.00	11.00	95.00	2	21	0	3	1	2.26	NH					6.45	70.95
K0909	31.97	90	31	5.42	2.00	13.47	9.33	15.67	23.33	10.06	2.33	2.00	4.00	32.67	38.67	1	30	13	3	1	4.18	PS					31.97	1,044.46
K0912	1.99	91	21	28.44	7.50	13.65	9.50	13.23	20.00	20.73	11.28	0.00	7.50	29.50	44.50	5	29	30	3	2	3.98	PS					1.99	58.71
K0915	5.46	82	26	21.08	6.50	11.02	8.50	18.25	29.50	24.11	17.43	3.66	17.50	38.00	62.00	1	19	42	3	2	4.32	PS			5.46	207.48		
pp705*	3.35	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.60	NH					3.35	0.00
	192.39																						**23.14**	**983.45**	**5.46**	**207.48**	**163.79**	**5,600.70**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K0807	2009	65554	Construct Training Area Roads, Paved					2.14	69.55
K0810	2009	65554	Construct Training Area Roads, Paved					5.19	207.60
K0820	2009	65554	Construct Training Area Roads, Paved	2.48	105.40				
K0909	2009	65554	Construct Training Area Roads, Paved					1.46	47.70
K0912	2009	65554	Construct Training Area Roads, Paved					1.36	40.12
K0915	2009	65554	Construct Training Area Roads, Paved			2.51	95.38		
			TOTAL REMOVALS	**2.48**	**105.40**	**2.51**	**95.38**	**10.15**	**364.97**

POST-PROJECT	**2009 SUB-TOTAL**		**non-contiguous habitat**		**2009 TOTAL**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**20.66**	**878.05**	**0.00**	**0.00**	**20.66**	**878.05**
Potentially Suitable Habitat	**2.95**	**112.10**	**0.00**	**0.00**	**2.95**	**112.10**
Future Potential Habitat	**153.64**	**5,235.73**	**37.59**	**1086.30**	**116.05**	**4,149.43**
TOTAL	**177.25**	**6,225.88**	**37.59**	**1,086.30**	**139.66**	**5,139.58**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31P = Loblolly Pine Plantation

*** Note:** No pine data was provided for pine plantation stands less then 30 years old.
Stands K0902, K0909 and K0912 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition.

Appendix Table H-131. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K09-01 Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems >14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K0820	2.44	73	31	9.82	2.50	12.26	10.00	21.62	32.50	3.88	3.76	2.51	5.50	42.50	50.50	2	40	16	3	1	1	2.44	103.70				
K0909	0.15	90	31	5.42	2.00	13.47	9.33	15.67	23.33	10.06	2.33	2.00	4.00	32.67	38.67	1	30	13	3	1	1	0.15	4.90				
K0912	40.40	91	21	28.44	7.50	13.65	9.50	13.23	20.00	20.73	11.28	0.00	7.50	29.50	44.50	5	29	30	3	2	0					40.40	1,191.80
K0913	18.62	80	21S	24.77	7.89	11.62	8.95	10.48	16.84	28.37	8.68	0.78	6.84	25.79	40.53	7	17	30	3	2	0					18.62	480.21
K0914	0.44	79	21	29.97	9.50	13.48	10.00	25.29	40.00	4.75	3.26	2.11	5.00	50.00	64.50	5	29	12	3	2	0			0.44	22.00		
K0915	26.65	82	26	21.08	6.50	11.02	8.50	18.25	29.50	24.11	17.43	3.66	17.50	38.00	62.00	1	19	42	3	2	1	26.65	1,012.70				
K0916	46.96	91	21	13.63	3.50	18.06	14.00	19.60	31.50	4.34	0.94	0.91	2.00	45.50	51.00	1	33	5	3	2	1	46.96	2,136.68				
K0917	13.64	50	26	12.17	4.00	13.69	10.50	20.53	30.00	19.40	7.00	3.85	10.50	40.50	55.00	1	24	24	3	2	1	13.64	552.42				
K0921	34.68	61	66**	21.55	6.32	6.07	4.74	7.21	10.53	18.27	9.63	4.38	13.68	15.26	35.26	2	22	51	3	2	0					0.00	0.00
	183.98																					**89.84**	**3,810.40**	**0.44**	**22.00**	**59.02**	**1,672.01**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K0909	2009	65554	Construct Training Area Roads, Paved	0.15	4.90				
K0912	2009	65554	Construct Training Area Roads, Paved					2.23	65.79
K0915	2009	65554	Construct Training Area Roads, Paved	1.05	39.90				
			TOTAL REMOVALS	**1.20**	**44.80**	**0.00**	**0.00**	**2.23**	**65.79**

POST-PROJECT

	2009 Acres	2009 BA
Suitable Habitat	**88.64**	**3,765.60**
Potentially Suitable Habitat	**0.44**	**22.00**
Future Potential Habitat	**56.79**	**1,606.22**
TOTAL	**145.87**	**5,393.82**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21S = Longleaf Pine Scrub Oak
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
66** = Oak-Hickory (managed for hardwoods)

Appendix Table H-132. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K09-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems >14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K0820	2.44	73	31	9.82	2.50	12.26	10.00	21.62	32.50	3.88	3.76	2.51	5.50	42.50	50.50	2	40	16	3	1	4.53	CS	2.44	103.70				
K0909	0.15	90	31	5.42	2.00	13.47	9.33	15.67	23.33	10.06	2.33	2.00	4.00	32.67	38.67	1	30	13	3	1	4.18	PS					0.15	4.90
K0912	40.40	91	21	28.44	7.50	13.65	9.50	13.23	20.00	20.73	11.28	0.00	7.50	29.50	44.50	5	29	30	3	2	3.98	PS					40.40	1,191.80
K0913	18.62	80	21S	24.77	7.89	11.62	8.95	10.48	16.84	28.37	8.68	0.78	6.84	25.79	40.53	7	17	30	3	2	3.43	PS					18.62	480.21
K0914	0.44	79	21	29.97	9.50	13.48	10.00	25.29	40.00	4.75	3.26	2.11	5.00	50.00	64.50	5	29	12	3	2	4.23	PS			0.44	22.00		
K0915	26.65	82	26	21.08	6.50	11.02	8.50	18.25	29.50	24.11	17.43	3.66	17.50	38.00	62.00	1	19	42	3	2	4.32	PS			26.65	1,012.70		
K0916	46.96	91	21	13.63	3.50	18.06	14.00	19.60	31.50	4.34	0.94	0.91	2.00	45.50	51.00	1	33	5	3	2	4.58	CS	46.96	2,136.68				
K0917	13.64	50	26	12.17	4.00	13.69	10.50	20.53	30.00	19.40	7.00	3.85	10.50	40.50	55.00	1	24	24	3	2	4.21	PS					13.64	552.42
K0921	34.68	61	66**	21.55	6.32	6.07	4.74	7.21	10.53	18.27	9.63	4.38	13.68	15.26	35.26	2	22	51	3	2	3.53	PS					0.00	0.00
	183.98																						**49.40**	**2,240.38**	**27.09**	**1,034.70**	**72.81**	**2,229.33**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K0909	2009	65554	Construct Training Area Roads, Paved					0.15	4.90
K0912	2009	65554	Construct Training Area Roads, Paved					2.23	65.79
K0915	2009	65554	Construct Training Area Roads, Paved			1.05	39.90		
			TOTAL REMOVALS	**0.00**	**0.00**	**1.05**	**39.90**	**2.38**	**70.69**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**49.40**	**2,240.38**
Potentially Suitable Habitat	**26.04**	**994.80**
Future Potential Habitat	**70.43**	**2,158.64**
TOTAL	**145.87**	**5,393.82**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Type Burn:
0=no data available
1=non-growing season
2=growing season

Forest Type:
21 = Longleaf Pine
21S = Longleaf Pine Scrub Oak
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
66** = Oak-Hickory (managed for hardwoods)

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Appendix Table H-133. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K09-02R, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K0905	0.05	50	31	27.08	7.22	7.50	5.56	18.94	28.89	21.67	8.49	1.15	7.78	34.44	49.44	2	19	27	3	1	1	0.05	1.72				
K0912	0.21	91	21	28.44	7.50	13.65	9.50	13.23	20.00	20.73	11.28	0.00	7.50	29.50	44.50	5	29	30	3	2	0					0.21	6.20
K0913	1.51	80	21S	24.77	7.89	11.62	8.95	10.48	16.84	28.37	8.68	0.78	6.84	25.79	40.53	7	17	30	3	2	0					1.51	38.94
K0914	2.04	79	21	29.97	9.50	13.48	10.00	25.29	40.00	4.75	3.26	2.11	5.00	50.00	64.50	5	29	12	3	2	0			2.04	102.00		
K0916	0.02	91	21	13.63	3.50	18.06	14.00	19.60	31.50	4.34	0.94	0.91	2.00	45.50	51.00	1	33	5	3	2	1	0.02	0.91				
K0917	76.71	50	26	12.17	4.00	13.69	10.50	20.53	30.00	19.40	7.00	3.85	10.50	40.50	55.00	1	24	24	3	2	1	76.71	3,106.76				
K0921	23.46	61	66*	21.55	6.32	6.07	4.74	7.21	10.53	18.27	9.63	4.38	13.68	15.26	35.26	2	22	51	3	2	0					0.00	0.00
K0923	36.59	113	21	16.92	5.50	7.13	5.50	16.35	24.50	30.65	13.81	3.02	14.00	30.00	49.50	1	31	42	3	2	1	36.59	1,097.70				
K0925	12.62	77	26	7.97	2.50	5.25	3.50	12.53	21.00	28.09	8.78	3.07	10.00	24.50	37.00	1	35	40	3	1	0					12.62	309.19
K0927	2.42	71	10	2.51	1.00	15.51	11.50	18.50	28.50	34.43	12.11	5.45	16.50	40.00	57.50	1	13	34	3	1	1	2.42	96.80				
K1201	6.26	61	21	15.62	4.50	4.23	3.00	2.02	2.50	20.61	6.97	0.30	5.50	5.50	15.50	5	45	54	0	0	0					0.00	0.00
K1203	11.85	107	11	18.82	4.50	6.82	5.00	3.67	5.50	12.52	4.09	0.00	2.50	10.50	17.50	6	29	28	0	0	0					11.85	124.43
K1205	9.16	80	31	7.89	2.35	13.81	10.00	16.43	24.71	14.07	5.81	3.34	10.59	34.71	47.65	1	11	23	0	0	1	9.16	317.94				
	182.90																					**124.95**	**4,621.83**	**2.04**	**102.00**	**26.19**	**478.76**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K0905	2009	64551	Construction Limits for Multi-purpose Training Range (MPTR)	0.04	1.38				
K0917	2009	64551	Multi-purpose Training Range (MPTR)	1.36	55.08				
K0917	2009	64551	Construction Limits for Multi-purpose Training Range (MPTR)	6.15	249.08				
K0925	2009	64551	Multi-purpose Training Range (MPTR)					12.62	309.19
K0927	2009	64551	Multi-purpose Training Range (MPTR)	2.42	96.80				
K1203	2009	64551	Multi-purpose Training Range (MPTR)					5.31	55.76
K1203	2009	64551	Construction Limits for Multi-purpose Training Range (MPTR)					4.80	50.40
K1205	2009	64551	Multi-purpose Training Range (MPTR)	9.16	317.94				
			2009 SUB-TOTAL	**19.13**	**720.28**	**0.00**	**0.00**	**22.73**	**415.35**
K0923	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)	0.77	23.10				
K1203	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)					1.74	18.27
			SUB-TOTAL	**0.77**	**23.10**	**0.00**	**0.00**	**1.74**	**18.27**
			TOTAL REMOVALS	**19.90**	**743.38**	**0.00**	**0.00**	**24.47**	**433.62**

POST-PROJECT	**2009**		**2011**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**105.82**	**3,901.55**	**105.05**	**3,878.45**
Potentially Suitable Habitat	**2.04**	**102.00**	**2.04**	**102.00**
Future Potential Habitat	**3.46**	**63.41**	**1.72**	**45.14**
TOTAL	**111.32**	**4,066.96**	**108.81**	**4,025.59**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
11 = Longleaf Pine-Hardwood
21 = Longleaf Pine
21S = Longleaf Pine Scrub Oak
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
66* = Oak-Hickory (managed for hardwoods)

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-134. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K09-02R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K0905	0.05	50	31	27.08	7.22	7.50	5.56	18.94	28.89	21.67	8.49	1.15	7.78	34.44	49.44	2	19	27	3	1	4.14	PS					0.05	1.72
K0912	0.21	91	21	28.44	7.50	13.65	9.50	13.23	20.00	20.73	11.28	0.00	7.50	29.50	44.50	5	29	30	3	2	4.10	PS					0.21	6.20
K0913	1.51	80	21S	24.77	7.89	11.62	8.95	10.48	16.84	28.37	8.68	0.78	6.84	25.79	40.53	7	17	30	3	2	3.49	PS					1.51	38.94
K0914	2.04	79	21	29.97	9.50	13.48	10.00	25.29	40.00	4.75	3.26	2.11	5.00	50.00	64.50	5	29	12	3	2	4.48	PS			2.04	102.00		
K0916	0.02	91	21	13.63	3.50	18.06	14.00	19.60	31.50	4.34	0.94	0.91	2.00	45.50	51.00	1	33	5	3	2	4.90	CS	0.02	0.91				
K0917	76.71	50	26	12.17	4.00	13.69	10.50	20.53	30.00	19.40	7.00	3.85	10.50	40.50	55.00	1	24	24	3	2	4.47	PS					76.71	3,106.76
K0921	23.46	61	66*	21.55	6.32	6.07	4.74	7.21	10.53	18.27	9.63	4.38	13.68	15.26	35.26	2	22	51	3	2	3.60	PS					0.00	0.00
K0923	36.59	113	21	16.92	5.50	7.13	5.50	16.35	24.50	30.65	13.81	3.02	14.00	30.00	49.50	1	31	42	3	2	4.39	PS					36.59	1,097.70
K0925	12.62	77	26	7.97	2.50	5.25	3.50	12.53	21.00	28.09	8.78	3.07	10.00	24.50	37.00	1	35	40	3	1	4.04	PS					12.62	309.19
K0927	2.42	71	10	2.51	1.00	15.51	11.50	18.50	28.50	34.43	12.11	5.45	16.50	40.00	57.50	1	13	34	3	1	4.29	CS	2.42	96.80				
K1201	6.26	61	21	15.62	4.50	4.23	3.00	2.02	2.50	20.61	6.97	0.30	5.50	5.50	15.50	5	45	54	0	0	2.85	PS					0.00	0.00
K1203	11.85	107	11	18.82	4.50	6.82	5.00	3.67	5.50	12.52	4.09	0.00	2.50	10.50	17.50	6	29	28	0	0	2.85	PS					11.85	124.43
K1205	9.16	80	31	7.89	2.35	13.81	10.00	16.43	24.71	14.07	5.81	3.34	10.59	34.71	47.65	1	11	23	0	0	4.00	PS					9.16	317.94
	182.90																						**2.44**	**97.71**	**2.04**	**102.00**	**148.70**	**5,002.88**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K0905	2009	n/a	Construction Limits for Multi-purpose Training Range (MPTR)					0.04	1.38
K0917	2009	64551	Multi-purpose Training Range (MPTR)					1.36	55.08
K0917	2009	n/a	Construction Limits for Multi-purpose Training Range (MPTR)					6.15	249.08
K0925	2009	64551	Multi-purpose Training Range (MPTR)					12.62	309.19
K0927	2009	64551	Multi-purpose Training Range (MPTR)	2.42	96.80				
K1203	2009	64551	Multi-purpose Training Range (MPTR)					5.31	55.76
K1203	2009	64551	Construction Limits for Multi-purpose Training Range (MPTR)					4.80	50.40
K1205	2009	64551	Multi-purpose Training Range (MPTR)					9.16	317.94
			2009 SUB-TOTAL	**2.42**	**96.80**	**0.00**	**0.00**	**39.44**	**1,038.83**
K0923	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)					0.77	23.10
K1203	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)					1.74	18.27
			SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**2.51**	**41.37**
			TOTAL REMOVALS	**2.42**	**96.80**	**0.00**	**0.00**	**41.95**	**1,080.20**

POST-PROJECT	**2009**		**2011**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**0.02**	**0.91**	**0.02**	**0.91**
Potentially Suitable Habitat	**2.04**	**102.00**	**2.04**	**102.00**
Future Potential Habitat	**109.26**	**3,964.05**	**106.75**	**3,922.68**
TOTAL	**111.32**	**4,066.96**	**108.81**	**4,025.59**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
11 = Longleaf Pine-Hardwood
21 = Longleaf Pine
21S = Longleaf Pine Scrub Oak
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
66* = Oak-Hickory (managed for hardwoods)

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-135. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K09-03R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems >14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K0903	16.47	18	31P	281.45	67.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.00	1	36	0	3	1	0					16.47	0.00
K0905	96.46	50	31	27.08	7.22	7.50	5.56	18.94	28.89	21.67	8.49	1.15	7.78	34.44	49.44	2	19	27	3	1	1	96.46	3,322.08				
K0909	13.34	90	31	5.42	2.00	13.47	9.33	15.67	23.33	10.06	2.33	2.00	4.00	32.67	38.67	1	30	13	3	1	1	13.34	435.82				
K0910	4.05	79	31P	277.83	65.00	4.97	2.50	0.00	0.00	12.73	0.00	0.00	0.00	2.50	67.50	1	33	0	3	1	0					4.05	10.13
K0911	58.73	71	31	61.06	15.50	13.82	9.50	16.96	26.00	8.86	2.54	0.83	3.00	35.50	54.00	1	29	10	3	1	1	0.00	0.00				
K0912	0.78	91	21	28.44	7.50	13.65	9.50	13.23	20.00	20.73	11.28	0.00	7.50	29.50	44.50	5	29	30	3	2	0					0.78	23.01
K0913	23.69	80	21S	24.77	7.89	11.62	8.95	10.48	16.84	28.37	8.68	0.78	6.84	25.79	40.53	7	17	30	3	2	0					23.69	610.97
K0914	44.32	79	21	29.97	9.50	13.48	10.00	25.29	40.00	4.75	3.26	2.11	5.00	50.00	64.50	5	29	12	3	2	0			44.32	2,216.00		
K0917	34.62	50	26	12.17	4.00	13.69	10.50	20.53	30.00	19.40	7.00	3.85	10.50	40.50	55.00	1	24	24	3	2	1	34.62	1,402.11				
K0919	0.99	71	31	16.93	5.79	17.96	13.68	22.72	34.74	18.32	11.19	2.28	11.58	48.42	65.79	1	17	25	3	1	1	0.00	0.00				
K1104	0.64	53	22P	109.43	33.00	40.66	25.50	1.95	2.50	3.60	2.64	0.85	3.50	28.00	64.50	1	39	0	3	1	0					0.00	0.00
K1108	12.39	57	31	17.63	5.50	12.46	9.00	16.38	24.50	0.00	0.74	0.00	0.50	33.50	39.50	2	52	0	3	1	1	0.00	0.00				
K1113	3.48	57	10	44.97	11.50	11.71	7.50	9.33	14.00	23.60	2.17	1.00	3.00	21.50	36.00	5	24	0	3	1	0					0.00	0.00
pp706*	13.24	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					13.24	0.00
pp707*	4.24	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
	327.44																					**144.42**	**5,160.01**	**44.32**	**2,216.00**	**58.23**	**644.11**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K0905	2009	64551	Multi-purpose Training Range (MPTR)	1.47	50.63				
K0905	2009	65554	Construct Training Area Roads, Paved	6.20	213.53				
K0909	2009	65554	Construct Training Area Roads, Paved	1.56	50.97				
K0910	2009	65554	Construct Training Area Roads, Paved					2.33	5.83
K0912	2009	65554	Construct Training Area Roads, Paved					0.71	20.95
K0913	2009	65554	Construct Training Area Roads, Paved					3.16	81.50
K0914	2009	65554	Construct Training Area Roads, Paved			0.61	30.50		
pp706*	2009	65554	Construct Training Area Roads, Paved					1.18	0.00
			TOTAL REMOVALS	**9.23**	**315.13**	**0.61**	**30.50**	**7.38**	**108.28**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**135.19**	**4,844.88**
Potentially Suitable Habitat	**43.71**	**2,185.50**
Future Potential Habitat	**50.85**	**535.83**
TOTAL	**229.75**	**7,566.21**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21S = Longleaf Pine Scrub Oak
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31P = Loblolly Pine Plantation

*** Note:** No pine data provided for pine plantation stand less than 30 years old

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-136. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K09-03R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems >14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K0903	16.47	18	31P	281.45	67.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.00	1	36	0	3	1	2.67	NH					16.47	0.00
K0905	96.46	50	31	27.08	7.22	7.50	5.56	18.94	28.89	21.67	8.49	1.15	7.78	34.44	49.44	2	19	27	3	1	4.14	PS					96.46	3,322.08
K0909	13.34	90	31	5.42	2.00	13.47	9.33	15.67	23.33	10.06	2.33	2.00	4.00	32.67	38.67	1	30	13	3	1	4.43	PS					13.34	435.82
K0910	4.05	79	31P	277.83	65.00	4.97	2.50	0.00	0.00	12.73	0.00	0.00	0.00	2.50	67.50	1	33	0	3	1	3.23	PS					4.05	10.13
K0911	58.73	71	31	61.06	15.50	13.82	9.50	16.96	26.00	8.86	2.54	0.83	3.00	35.50	54.00	1	29	10	3	1	4.37	PS					0.00	0.00
K0912	0.78	91	21	28.44	7.50	13.65	9.50	13.23	20.00	20.73	11.28	0.00	7.50	29.50	44.50	5	29	30	3	2	4.10	PS					0.78	23.01
K0913	23.69	80	21S	24.77	7.89	11.62	8.95	10.48	16.84	28.37	8.68	0.78	6.84	25.79	40.53	7	17	30	3	2	3.49	PS					23.69	610.97
K0914	44.32	79	21	29.97	9.50	13.48	10.00	25.29	40.00	4.75	3.26	2.11	5.00	50.00	64.50	5	29	12	3	2	4.48	PS			44.32	2,216.00		
K0917	34.62	50	26	12.17	4.00	13.69	10.50	20.53	30.00	19.40	7.00	3.85	10.50	40.50	55.00	1	24	24	3	2	4.47	PS					34.62	1,402.11
K0919	0.99	71	31	16.93	5.79	17.96	13.68	22.72	34.74	18.32	11.19	2.28	11.58	48.42	65.79	1	17	25	3	1	4.36	CS	0.00	0.00				
K1104	0.64	53	22P	109.43	33.00	40.66	25.50	1.95	2.50	3.60	2.64	0.85	3.50	28.00	64.50	1	39	0	3	1	3.19	PS					0.00	0.00
K1108	12.39	57	31	17.63	5.50	12.46	9.00	16.38	24.50	0.00	0.74	0.00	0.50	33.50	39.50	2	52	0	3	1	4.51	PS					0.00	0.00
K1113	3.48	57	10	44.97	11.50	11.71	7.50	9.33	14.00	23.60	2.17	1.00	3.00	21.50	36.00	5	24	0	3	1	3.40	PS					0.00	0.00
pp706*	13.24	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					13.24	0.00
pp707*	4.24	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
	327.44																						**0.00**	**0.00**	**44.32**	**2,216.00**	**202.65**	**5,804.12**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K0905	2009	64551	Multi-purpose Training Range (MPTR)					1.47	50.63
K0905	2009	65554	Construct Training Area Roads, Paved					6.20	213.53
K0909	2009	65554	Construct Training Area Roads, Paved					1.56	50.97
K0910	2009	65554	Construct Training Area Roads, Paved					2.33	5.83
K0912	2009	65554	Construct Training Area Roads, Paved					0.71	20.95
K0913	2009	65554	Construct Training Area Roads, Paved					3.16	81.50
K0914	2009	65554	Construct Training Area Roads, Paved			0.61	30.50		
pp706*	2009	65554	Construct Training Area Roads, Paved					1.18	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.61**	**30.50**	**16.61**	**423.41**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**43.71**	**2,185.50**
Future Potential Habitat	**186.04**	**5,380.71**
TOTAL	**229.75**	**7,566.21**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21S = Longleaf Pine Scrub Oak
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31P = Loblolly Pine Plantation

*** Note:** No pine data provided for pine plantation stand less than 30 years old

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-137. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K11-02**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems >14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K1035	5.12	42	31	50.23	14.00	31.93	21.00	7.60	13.00	25.14	2.35	0.81	2.50	34.00	50.50	6	22	7	3	2	0			5.12	174.08		
K1106	8.91	67	13	10.62	3.50	7.45	5.00	12.01	20.00	43.95	8.56	3.60	10.50	25.00	39.00	7	25	38	3	1	0					8.91	222.75
K1115	36.76	65	31	15.93	4.00	9.93	7.50	19.00	33.00	4.65	0.86	0.90	2.00	40.50	46.50	2	29	6	3	1	1	36.76	1,488.78				
K1117	31.39	82	26	9.74	2.00	6.14	4.50	22.72	39.00	18.08	7.37	1.65	6.50	43.50	52.00	2	24	24	3	1	1	31.39	1,365.47				
K1119	12.93	60	10	16.53	4.00	11.06	9.00	9.82	15.50	26.58	17.78	5.78	21.00	24.50	49.50	7	23	53	3	1	0					0.00	0.00
K1120	50.29	80	13	32.48	9.47	15.23	10.53	15.08	26.32	32.59	19.30	5.71	20.53	36.84	66.84	1	13	45	3	1	1	50.29	1,852.68				
K1120	0.01	80	13U	32.48	9.47	15.23	10.53	15.08	26.32	32.59	19.30	5.71	20.53	36.84	66.84	1	13	45	3	1	1	0.01	0.37				
K1121	67.28	80	21	17.06	5.00	11.72	9.00	16.04	26.00	12.29	6.32	2.16	7.50	35.00	47.50	1	29	23	3	1	1	67.28	2,354.80				
K1121	0.12	80	21U	17.06	5.00	11.72	9.00	16.04	26.00	12.29	6.32	2.16	7.50	35.00	47.50	1	29	23	3	1	1	0.12	4.20				
K1122	33.35	83	21	27.11	8.00	15.02	11.50	14.89	24.00	10.92	7.57	5.91	14.50	35.50	58.00	1	22	31	3	1	1	33.35	1,183.93				
K1125	9.12	91	21	27.36	8.00	13.22	10.00	5.39	7.50	14.31	3.26	1.29	4.00	17.50	29.50	2	36	20	3	1	0					9.12	159.60
K1125	0.21	91	21U	27.36	8.00	13.22	10.00	5.39	7.50	14.31	3.26	1.29	4.00	17.50	29.50	2	36	20	3	1	0					0.21	3.68
K1127	0.03	81	26	7.10	1.82	5.63	4.55	17.33	24.55	6.48	3.96	1.22	4.55	29.09	35.45	2	17	18	3	1	0					0.03	0.87
pp109*	39.57	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					39.57	0.00
pp112*	2.03	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp711*	0.51	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.51	0.00
	297.63																					**219.20**	**8,250.23**	**5.12**	**174.08**	**58.35**	**386.90**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K1106	2009	64551	Construction Limits for Multi-purpose Training Range (MPTR)					5.93	148.25
K1106	2009	65554	Construct Training Area Roads Paved					2.44	61.00
K1115	2009	64551	Construction Limits for Multi-purpose Training Range (MPTR)	33.39	1,352.30				
K1115	2009	65554	Construct Training Area Roads Paved	1.18	47.79				
K1115	2009	64551	Access Road for Multi-purpose Training Range (MPTR)	1.54	62.37				
K1117	2009	64551	Construction Limits for Multi-purpose Training Range (MPTR)	0.69	30.02				
K1117	2009	65554	Construct Training Area Roads Paved	3.70	160.95				
K1120	2009	64551	Construction Limits for Multi-purpose Training Range (MPTR)	13.89	511.71				
K1120	2009	65554	Construct Training Area Roads Paved	4.84	178.31				
K1121	2009	65554	Construct Training Area Roads Paved	0.11	3.85				
K1125	2009	65554	Construct Training Area Roads Paved					2.79	48.83
pp109*	2009	65554	Construct Training Area Roads Paved					3.16	0.00
			TOTAL REMOVALS	**59.34**	**2,347.30**	**0.00**	**0.00**	**14.32**	**258.08**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**159.86**	**5,902.93**
Potentially Suitable Habitat	**5.12**	**174.08**
Future Potential Habitat	**44.03**	**128.82**
TOTAL	**209.01**	**6,205.83**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
13U = Loblolly Pine-Hardwood Underplanted
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21U = Longleaf Pine Underplanted
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-138. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K11-02**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems >14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K1035	5.12	42	31	50.23	14.00	31.93	21.00	7.60	13.00	25.14	2.35	0.81	2.50	34.00	50.50	6	22	7	3	2	3.43	PS					5.12	174.08
K1106	8.91	67	13	10.62	3.50	7.45	5.00	12.01	20.00	43.95	8.56	3.60	10.50	25.00	39.00	7	25	38	3	1	3.60	PS					8.91	222.75
K1115	36.76	65	31	15.93	4.00	9.93	7.50	19.00	33.00	4.65	0.86	0.90	2.00	40.50	46.50	2	29	6	3	1	4.65	CS	36.76	1,488.78				
K1117	31.39	82	26	9.74	2.00	6.14	4.50	22.72	39.00	18.08	7.37	1.65	6.50	43.50	52.00	2	24	24	3	1	4.46	CS	31.39	1,365.47				
K1119	12.93	60	10	16.53	4.00	11.06	9.00	9.82	15.50	26.58	17.78	5.78	21.00	24.50	49.50	7	23	53	3	1	3.46	PS					0.00	0.00
K1120	50.29	80	13	32.48	9.47	15.23	10.53	15.08	26.32	32.59	19.30	5.71	20.53	36.84	66.84	1	13	45	3	1	4.06	PS					50.29	1,852.68
K1120	0.01	80	13U	32.48	9.47	15.23	10.53	15.08	26.32	32.59	19.30	5.71	20.53	36.84	66.84	1	13	45	3	1	4.06	PS					0.01	0.37
K1121	67.28	80	21	17.06	5.00	11.72	9.00	16.04	26.00	12.29	6.32	2.16	7.50	35.00	47.50	1	29	23	3	1	4.25	PS					67.28	2,354.80
K1121	0.12	80	21U	17.06	5.00	11.72	9.00	16.04	26.00	12.29	6.32	2.16	7.50	35.00	47.50	1	29	23	3	1	4.25	PS					0.12	4.20
K1122	33.35	83	21	27.11	8.00	15.02	11.50	14.89	24.00	10.92	7.57	5.91	14.50	35.50	58.00	1	22	31	3	1	4.17	PS					33.35	1,183.93
K1125	9.12	91	21	27.36	8.00	13.22	10.00	5.39	7.50	14.31	3.26	1.29	4.00	17.50	29.50	2	36	20	3	1	3.52	PS					9.12	159.60
K1125	0.21	91	21U	27.36	8.00	13.22	10.00	5.39	7.50	14.31	3.26	1.29	4.00	17.50	29.50	2	36	20	3	1	3.52	PS					0.21	3.68
K1127	0.03	81	26	7.10	1.82	5.63	4.55	17.33	24.55	6.48	3.96	1.22	4.55	29.09	35.45	2	17	18	3	1	4.17	PS					0.03	0.87
pp109*	39.57	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					39.57	0.00
pp112*	2.03	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp711*	0.51	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.51	0.00
	297.63																						**68.15**	**2,854.25**	**0.00**	**0.00**	**214.52**	**5,956.96**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K1106	2009	64551	Construction Limits for Multi-purpose Training Range (MPTR)					5.93	148.25
K1106	2009	65554	Construct Training Area Roads Paved					2.44	61.00
K1115	2009	64551	Construction Limits for Multi-purpose Training Range (MPTR)	33.39	1,352.30				
K1115	2009	65554	Construct Training Area Roads Paved	1.18	47.79				
K1115	2009	64551	Access Road for Multi-purpose Training Range (MPTR)	1.54	62.37				
K1117	2009	64551	Construction Limits for Multi-purpose Training Range (MPTR)	0.69	30.02				
K1117	2009	65554	Construct Training Area Roads Paved	3.70	160.95				
K1120	2009	64551	Construction Limits for Multi-purpose Training Range (MPTR)					13.89	511.71
K1120	2009	65554	Construct Training Area Roads Paved					4.84	178.31
K1121	2009	65554	Construct Training Area Roads Paved					0.11	3.85
K1125	2009	65554	Construct Training Area Roads Paved					2.79	48.83
pp109*	2009	65554	Construct Training Area Roads Paved					3.16	0.00
			TOTAL REMOVALS	**40.50**	**1,653.43**	**0.00**	**0.00**	**33.16**	**951.95**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**27.65**	**1,200.82**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**181.36**	**5,005.01**
TOTAL	**209.01**	**6,205.83**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
13U = Loblolly Pine-Hardwood Underplanted
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21U = Longleaf Pine Underplanted
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-139. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K11-04R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems >14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K1026	4.14	79	42**	11.29	2.50	1.57	1.00	5.40	8.00	29.06	12.99	8.59	22.00	9.00	33.50	7	18	76	3	2	0					0.00	0.00
K1028	0.55	76	21	16.42	6.25	40.88	31.25	27.15	37.50	3.17	0.00	0.00	0.00	68.75	75.00	1	26	0	3	2	1	0.00	0.00				
K1033	7.41	60	31	28.36	7.00	25.86	19.00	8.27	12.00	32.72	5.09	0.56	4.50	31.00	42.50	1	23	14	3	2	1	7.41	229.71				
K1104	1.97	53	22P	109.43	33.00	40.66	25.50	1.95	2.50	3.60	2.64	0.85	3.50	28.00	64.50	1	39	8	3	1	0					0.00	0.00
K1104	0.03	53	22PU	109.43	33.00	40.66	25.50	1.95	2.50	3.60	2.64	0.85	3.50	28.00	64.50	1	39	8	3	1	0					0.00	0.00
K1106	77.25	67	13	10.62	3.50	7.45	5.00	12.01	20.00	43.95	8.56	3.60	10.50	25.00	39.00	7	25	38	3	1	0					77.25	1,931.25
K1106	1.40	67	13U	10.62	3.50	7.45	5.00	12.01	20.00	43.95	8.56	3.60	10.50	25.00	39.00	7	25	38	3	1	0					1.40	35.00
K1113	0.01	57	10	44.97	11.50	11.71	7.50	9.33	14.00	23.60	2.17	1.00	3.00	21.50	36.00	5	24	13	3	1	0					0.00	0.00
K1115	7.46	65	31	15.93	4.00	9.93	7.50	19.00	33.00	4.65	0.86	0.90	2.00	40.50	46.50	2	29	6	3	1	1	7.46	302.13				
K1117	9.49	82	26	9.74	2.00	6.14	4.50	22.72	39.00	18.08	7.37	1.65	6.50	43.50	52.00	2	24	24	3	1	1	9.49	412.82				
K1117	0.03	82	26	9.74	2.00	6.14	4.50	22.72	39.00	18.08	7.37	1.65	6.50	43.50	52.00	2	24	24	3	1	1	0.03	1.31				
K1122	21.96	83	21	27.11	8.00	15.02	11.50	14.89	24.00	10.92	7.57	5.91	14.50	35.50	58.00	1	22	31	3	1	1	21.96	779.58				
K1122	0.15	83	21	27.11	8.00	15.02	11.50	14.89	24.00	10.92	7.57	5.91	14.50	35.50	58.00	1	22	31	3	1	1	0.15	5.33				
pp110*	28.83	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					28.83	0.00
pp111*	5.60	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp708*	14.95	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					14.95	0.00
pp709*	3.02	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.02	0.00
pp710*	2.09	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.09	0.00
pp711*	2.39	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.39	0.00
	188.73																					**46.50**	**1,730.88**	**0.00**	**0.00**	**129.93**	**1,966.25**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K1106	2009	64551	Construction Limits for Mulit-purpose Training Range (MPTR)					32.87	821.75
K1106	2009	65554	Construct Training Area Roads Paved					10.78	269.50
K1106	2009	64551	Access Road for Mulit-purpose Training Range (MPTR)					2.40	60.00
K1115	2009	64551	Construction Limits for Mulit-purpose Training Range (MPTR)	5.60	226.80				
K1115	2009	64551	Access Road for Mulit-purpose Training Range (MPTR)	1.86	75.33				
K1117	2009	65554	Construct Training Area Roads Paved	1.83	79.61				
pp110*	2009	64551	Construction Limits for Mulit-purpose Training Range (MPTR)					17.81	0.00
pp110*	2009	65554	Construct Training Area Roads Paved					6.22	0.00
pp708*	2009	65554	Construct Training Area Roads Paved					0.40	0.00
			TOTAL REMOVALS	**9.29**	**381.74**	**0.00**	**0.00**	**70.48**	**1,151.25**

POST-PROJECT

	2009	
	Acres	**BA**
Suitable Habitat	**37.21**	**1,349.14**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**59.45**	**815.00**
TOTAL	**96.66**	**2,164.14**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
13U = Loblolly Pine-Hardwood Underplanted
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Loblolly Pine Plantation
22PU = Loblolly Pine Plantation Underplanted
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine

*** Note:** No pine data provided for stands less than 30 years of age.
Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-140. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K11-04R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems >14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K1026	4.14	79	42**	11.29	2.50	1.57	1.00	5.40	8.00	29.06	12.99	8.59	22.00	9.00	33.50	7	18	76	3	2	3.03	PS					0.00	0.00
K1028	0.55	76	21	16.42	6.25	40.88	31.25	27.15	37.50	3.17	0.00	0.00	0.00	68.75	75.00	1	26	0	3	2	4.80	CS	0.00	0.00				
K1033	7.41	60	31	28.36	7.00	25.86	19.00	8.27	12.00	32.72	5.09	0.56	4.50	31.00	42.50	1	23	14	3	2	3.87	PS					7.41	229.71
K1104	1.97	53	22P	109.43	33.00	40.66	25.50	1.95	2.50	3.60	2.64	0.85	3.50	28.00	64.50	1	39	8	3	1	3.19	PS					0.00	0.00
K1104	0.03	53	22PU	109.43	33.00	40.66	25.50	1.95	2.50	3.60	2.64	0.85	3.50	28.00	64.50	1	39	8	3	1	3.19	PS					0.00	0.00
K1106	77.25	67	13	10.62	3.50	7.45	5.00	12.01	20.00	43.95	8.56	3.60	10.50	25.00	39.00	7	25	38	3	1	3.60	PS					77.25	1,931.25
K1106	1.40	67	13U	10.62	3.50	7.45	5.00	12.01	20.00	43.95	8.56	3.60	10.50	25.00	39.00	7	25	38	3	1	3.60	PS					1.40	35.00
K1113	0.01	57	10	44.97	11.50	11.71	7.50	9.33	14.00	23.60	2.17	1.00	3.00	21.50	36.00	5	24	13	3	1	3.40	PS					0.00	0.00
K1115	7.46	65	31	15.93	4.00	9.93	7.50	19.00	33.00	4.65	0.86	0.90	2.00	40.50	46.50	2	29	6	3	1	4.65	CS	7.46	302.13				
K1117	9.49	82	26	9.74	2.00	6.14	4.50	22.72	39.00	18.08	7.37	1.65	6.50	43.50	52.00	2	24	24	3	1	4.46	CS	9.49	412.82				
K1117	0.03	82	26	9.74	2.00	6.14	4.50	22.72	39.00	18.08	7.37	1.65	6.50	43.50	52.00	2	24	24	3	1	4.46	CS	0.03	1.31				
K1122	21.96	83	21	27.11	8.00	15.02	11.50	14.89	24.00	10.92	7.57	5.91	14.50	35.50	58.00	1	22	31	3	1	4.17	PS					21.96	779.58
K1122	0.15	83	21	27.11	8.00	15.02	11.50	14.89	24.00	10.92	7.57	5.91	14.50	35.50	58.00	1	22	31	3	1	4.17	PS					0.15	5.33
pp110*	28.83	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					28.83	0.00
pp111*	5.60	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp708*	14.95	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					14.95	0.00
pp709*	3.02	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.02	0.00
pp710*	2.09	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.09	0.00
pp711*	2.39	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.39	0.00
	188.73																						**16.98**	**716.26**	**0.00**	**0.00**	**159.45**	**2,980.87**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K1106	2009	64551	Construction Limits for Mulit-purpose Training Range (MPTR)					32.87	821.75
K1106	2009	65554	Construct Training Area Roads Paved					10.78	269.50
K1106	2009	64551	Access Road for Mulit-purpose Training Range (MPTR)					2.40	60.00
K1115	2009	64551	Construction Limits for Mulit-purpose Training Range (MPTR)	5.60	226.80				
K1115	2009	64551	Access Road for Mulit-purpose Training Range (MPTR)	1.86	75.33				
K1117	2009	65554	Construct Training Area Roads Paved	1.83	79.61				
pp110*	2009	64551	Construction Limits for Mulit-purpose Training Range (MPTR)					17.81	0.00
pp110*	2009	65554	Construct Training Area Roads Paved					6.22	0.00
pp708*	2009	65554	Construct Training Area Roads Paved					0.40	0.00
			TOTAL REMOVALS	**9.29**	**381.74**	**0.00**	**0.00**	**70.48**	**1,151.25**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**7.69**	**334.52**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**88.97**	**1,829.62**
TOTAL	**96.66**	**2,164.14**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
13U = Loblolly Pine-Hardwood Underplanted
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Loblolly Pine Plantation
22PU = Loblolly Pine Plantation Underplanted
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine

*** Note:** No pine data provided for stands less than 30 years of age.
Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-141. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K12-01 Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K1212	83.19	69	21	1.82	0.50	10.62	8.00	21.56	35.00	0.00	0.00	0.00	0.00	43.00	43.50	1	42	0	0	0	1	83.19	3,577.17				
K1404	27.06	56	26	9.51	2.50	6.16	5.00	6.73	9.50	3.04	2.20	0.68	2.50	14.50	19.50	1	33	18	3	1	0					27.06	392.37
K1406	0.19	80	32	33.13	8.50	17.51	13.00	8.01	12.50	1.93	3.76	0.28	3.00	25.50	37.00	1	29	14	3	1	0					0.19	4.85
K1407	35.83	69	21	12.19	3.89	18.25	15.00	16.31	23.89	7.54	0.58	0.51	1.11	38.89	43.89	1	19	3	3	1	1	35.83	1,393.43				
K1407	0.03	69	21U	12.19	3.89	18.25	15.00	16.31	23.89	7.54	0.58	0.51	1.11	38.89	43.89	1	19	3	3	1	1	0.03	1.17				
K1409	9.84	59	31	4.67	2.00	3.41	3.00	28.71	42.00	0.00	0.00	0.00	0.00	45.00	47.00	1	20	0	3	1	1	9.84	442.80				
K1410	8.22	56	26	18.95	5.50	34.57	25.00	10.64	14.00	0.00	0.00	0.00	0.00	39.00	44.50	1	44	0	0	0	1	8.22	320.58				
pp270*	36.82	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					36.82	0.00
pp805*	1.20	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.20	0.00
	202.38																					**137.11**	**5,735.15**	**0.00**	**0.00**	**65.27**	**397.22**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K1212	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)	43.90	1,887.70				
K1407	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)	1.92	74.67				
			TOTAL REMOVALS	**45.82**	**1,962.37**	**0.00**	**0.00**	**0.00**	**0.00**

POST-PROJECT

	2011 Acres	2011 BA
Suitable Habitat	**91.29**	**3,772.78**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**65.27**	**397.22**
TOTAL	**156.56**	**4,170.00**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21U = Longleaf Pine Underplanted
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
32 = Shortleaf Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-142. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K12-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K1212	83.19	69	21	1.82	0.50	10.62	8.00	21.56	35.00	0.00	0.00	0.00	0.00	43.00	43.50	1	42	0	0	0	4.70	CS	83.19	3,577.17				
K1404	27.06	56	26	9.51	2.50	6.16	5.00	6.73	9.50	3.04	2.20	0.68	2.50	14.50	19.50	1	33	18	3	1	3.41	PS					27.06	392.37
K1406	0.19	80	32	33.13	8.50	17.51	13.00	8.01	12.50	1.93	3.76	0.28	3.00	25.50	37.00	1	29	14	3	1	3.66	PS					0.19	4.85
K1407	35.83	69	21	12.19	3.89	18.25	15.00	16.31	23.89	7.54	0.58	0.51	1.11	38.89	43.89	1	19	3	3	1	2.62	PS					35.83	1,393.43
K1407	0.03	69	21U	12.19	3.89	18.25	15.00	16.31	23.89	7.54	0.58	0.51	1.11	38.89	43.89	1	19	3	3	1	2.62	PS					0.03	1.17
K1409	9.84	59	31	4.67	2.00	3.41	3.00	28.71	42.00	0.00	0.00	0.00	0.00	45.00	47.00	1	20	0	3	1	2.48	PS					9.84	442.80
K1410	8.22	56	26	18.95	5.50	34.57	25.00	10.64	14.00	0.00	0.00	0.00	0.00	39.00	44.50	1	44	0	0	0	4.08	PS					8.22	320.58
pp270*	36.82	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					36.82	0.00
pp805*	1.20	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.20	0.00
	202.38																						**83.19**	**3,577.17**	**0.00**	**0.00**	**119.19**	**2,555.20**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K1212	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)	43.90	1,887.70				
K1407	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)					1.92	74.67
			TOTAL REMOVALS	**43.90**	**1,887.70**	**0.00**	**0.00**	**1.92**	**74.67**

POST-PROJECT	**2011**	
	Acres	**BA**
Suitable Habitat	**39.29**	**1,689.47**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**117.27**	**2,480.53**
TOTAL	**156.56**	**4,170.00**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21U = Longleaf Pine Underplanted
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
32 = Shortleaf Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-143. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K13-02 Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K1305	7.51	90	21	22.06	7.00	19.94	15.00	17.29	25.00	7.14	8.46	3.03	9.50	40.00	56.50	5	30	24	3	1	0			7.51	300.40		
K1307	5.00	81	42**	9.00	3.00	4.31	3.00	8.45	14.50	42.14	8.60	7.44	18.00	17.50	38.50	1	20	56	3	1	0					0.00	0.00
K1310	50.78	73	10	16.38	4.50	13.46	10.00	13.21	18.00	16.71	6.81	3.45	9.00	28.00	41.50	5	28	28	3	1	0					50.78	1,421.84
K1311	13.03	85	21	4.85	1.54	33.45	24.62	32.00	44.62	0.00	0.79	0.00	0.77	69.23	71.54	1	28	1	3	1	1	13.03	902.07				
K1312	32.05	85	31	15.68	5.00	13.02	9.00	26.59	42.00	16.26	6.13	3.05	9.00	51.00	65.00	1	26	19	3	1	1	32.05	1,634.55				
K1314	18.06	83	21	32.44	10.50	28.95	22.00	15.04	18.50	9.15	0.82	0.44	1.00	40.50	52.00	1	28	3	3	1	1	18.06	731.43				
K1320	29.33	85	31	22.56	7.50	25.10	18.00	15.51	20.50	3.64	1.47	1.27	2.50	38.50	48.50	1	27	6	3	1	1	29.33	1,129.21				
pp826*	0.81	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.81	0.00
pp827*	1.07	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.07	0.00
	157.64																					**92.47**	**4,397.26**	**7.51**	**300.40**	**52.66**	**1,421.84**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K1310	2011	64551	Beaten Area for Multi-purpose Training Range					17.51	490.28
K1311	2011	64551	Beaten Area for Multi-purpose Training Range	0.29	20.08				
K1312	2011	64551	Beaten Area for Multi-purpose Training Range	10.70	545.70				
K1314	2011	64551	Beaten Area for Multi-purpose Training Range	18.06	731.43				
K1320	2011	64551	Beaten Area for Multi-purpose Training Range	29.33	1129.21				
pp826*	2011	64551	Beaten Area for Multi-purpose Training Range					0.35	0.00
pp827*	2011	64551	Beaten Area for Multi-purpose Training Range					1.07	0.00
			TOTAL REMOVALS	**58.38**	**2,426.42**	**0.00**	**0.00**	**18.93**	**490.28**

POST-PROJECT	**2011**	
	Acres	**BA**
Suitable Habitat	**34.09**	**1,970.84**
Potentially Suitable Habitat	**7.51**	**300.40**
Future Potential Habitat	**33.73**	**931.56**
TOTAL	**75.33**	**3,202.80**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-144. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K13-02**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K1305	7.51	90	21	22.06	7.00	19.94	15.00	17.29	25.00	7.14	8.46	3.03	9.50	40.00	56.50	5	30	24	3	1	4.06	PS					7.51	300.40
K1307	5.00	81	42**	9.00	3.00	4.31	3.00	8.45	14.50	42.14	8.60	7.44	18.00	17.50	38.50	1	20	56	3	1	3.36	NH					0.00	0.00
K1310	50.78	73	10	16.38	4.50	13.46	10.00	13.21	18.00	16.71	6.81	3.45	9.00	28.00	41.50	5	28	28	3	1	3.84	PS					50.78	1,421.84
K1311	13.03	85	21	4.85	1.54	33.45	24.62	32.00	44.62	0.00	0.79	0.00	0.77	69.23	71.54	1	28	1	3	1	4.65	CS	13.03	902.07				
K1312	32.05	85	31	15.68	5.00	13.02	9.00	26.59	42.00	16.26	6.13	3.05	9.00	51.00	65.00	1	26	19	3	1	4.52	CS	32.05	1,634.55				
K1314	18.06	83	21	32.44	10.50	28.95	22.00	15.04	18.50	9.15	0.82	0.44	1.00	40.50	52.00	1	28	3	3	1	4.30	PS					18.06	731.43
K1320	29.33	85	31	22.56	7.50	25.10	18.00	15.51	20.50	3.64	1.47	1.27	2.50	38.50	48.50	1	27	6	3	1	4.43	PS					29.33	1,129.21
pp826*	0.81	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.81	0.00
pp827*	1.07	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.07	0.00
	157.64																						**45.08**	**2,536.62**	**0.00**	**0.00**	**107.56**	**3,582.88**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K1310	2011	64551	Beaten Area for Multi-purpose Training Range					17.51	490.28
K1311	2011	64551	Beaten Area for Multi-purpose Training Range	0.29	20.08				
K1312	2011	64551	Beaten Area for Multi-purpose Training Range	10.70	545.70				
K1314	2011	64551	Beaten Area for Multi-purpose Training Range					18.06	731.43
K1320	2011	64551	Beaten Area for Multi-purpose Training Range					29.33	1,129.21
pp826*	2011	64551	Beaten Area for Multi-purpose Training Range					0.35	0.00
pp827*	2011	64551	Beaten Area for Multi-purpose Training Range					1.07	0.00
			TOTAL REMOVALS	**10.99**	**565.78**	**0.00**	**0.00**	**66.32**	**2,350.92**

POST-PROJECT	**2011**	
	Acres	**BA**
Suitable Habitat	**34.09**	**1,970.84**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**41.24**	**1,231.97**
TOTAL	**75.33**	**3,202.81**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-145. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K13-04 Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K1309	1.23	65	13	34.66	10.00	21.25	15.50	16.57	22.00	16.95	5.10	3.44	8.50	37.50	56.00	1	23	18	3	1	1	1.23	46.13				
K1310	25.72	73	10	16.38	4.50	13.46	10.00	13.21	18.00	16.71	6.81	3.45	9.00	28.00	41.50	5	28	28	3	1	0					25.72	720.16
K1316	15.14	43	31	103.86	31.00	45.61	32.00	11.66	15.50	7.74	6.01	0.69	4.50	47.50	83.00	1	25	10	3	1	0			15.14	719.15		
K1317	26.63	137	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					26.63	0.00
K1322	11.54	52	31	65.13	18.33	19.67	13.89	13.54	20.00	4.13	0.92	0.41	1.11	33.89	53.33	1	29	4	3	1	1	11.54	391.09				
K1323	41.30	52	21	14.92	5.00	10.96	8.00	15.74	24.50	3.03	1.26	2.05	4.00	32.50	41.50	1	25	11	3	1	1	41.30	1,342.25				
K1324	24.90	40	31	87.02	24.50	38.13	26.50	12.92	19.00	19.92	1.12	1.11	2.50	45.50	72.50	1	22	4	3	1	0			24.90	1,132.95		
K1329	0.70	66	31	21.88	7.50	20.06	13.50	21.64	33.50	3.19	1.52	1.04	2.50	47.00	57.00	5	30	6	3	1	0			0.70	32.90		
K1330	26.09	41	25P	159.25	46.50	39.81	26.50	2.22	3.00	0.00	0.00	0.00	0.00	29.50	76.00	1	25	0	3	1	0					0.00	0.00
pp602*	2.53	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp603*	8.27	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp826*	28.70	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					28.70	0.00
pp827*	2.99	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.99	0.00
	215.74																					**54.07**	**1,779.47**	**40.74**	**1,885.00**	**84.04**	**720.16**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K1317	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)					3.12	0.00
K1322	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)	3.71	125.73				
K1323	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)	33.29	1,081.93				
K1324	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)			24.90	1,132.95		
pp826*	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)					25.76	0.00
pp827*	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)					2.99	0.00
			TOTAL REMOVALS	**37.00**	**1,207.66**	**24.90**	**1,132.95**	**31.87**	**0.00**

POST-PROJECT	**2011**	
	Acres	**BA**
Suitable Habitat	**17.07**	**571.81**
Potentially Suitable Habitat	**15.84**	**752.05**
Future Potential Habitat	**52.17**	**720.16**
TOTAL	**85.08**	**2,044.02**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25P = Mixed Pine Plantation
31 = Loblolly Pine
ND = no data provided

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.
Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-146. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K13-04**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K1309	1.23	65	13	34.66	10.00	21.25	15.50	16.57	22.00	16.95	5.10	3.44	8.50	37.50	56.00	1	23	18	3	1	4.25	PS					1.23	46.13
K1310	25.72	73	10	16.38	4.50	13.46	10.00	13.21	18.00	16.71	6.81	3.45	9.00	28.00	41.50	5	28	28	3	1	3.84	PS					25.72	720.16
K1316	15.14	43	31	103.86	31.00	45.61	32.00	11.66	15.50	7.74	6.01	0.69	4.50	47.50	83.00	1	25	10	3	1	3.71	PS					15.14	719.15
K1317	26.63	137	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.62	PS					26.63	0.00
K1322	11.54	52	31	65.13	18.33	19.67	13.89	13.54	20.00	4.13	0.92	0.41	1.11	33.89	53.33	1	29	4	3	1	3.65	PS					11.54	391.09
K1323	41.30	52	21	14.92	5.00	10.96	8.00	15.74	24.50	3.03	1.26	2.05	4.00	32.50	41.50	1	25	11	3	1	4.19	PS					41.30	1,342.25
K1324	24.90	40	31	87.02	24.50	38.13	26.50	12.92	19.00	19.92	1.12	1.11	2.50	45.50	72.50	1	22	4	3	1	3.49	PS					24.90	1,132.95
K1329	0.70	66	31	21.88	7.50	20.06	13.50	21.64	33.50	3.19	1.52	1.04	2.50	47.00	57.00	5	30	6	3	1	4.51	PS			0.70	32.90		
K1330	26.09	41	25P	159.25	46.50	39.81	26.50	2.22	3.00	0.00	0.00	0.00	0.00	29.50	76.00	1	25	0	3	1	2.95	PS					0.00	0.00
pp602*	2.53	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp603*	8.27	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp826*	28.70	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					28.70	0.00
pp827*	2.99	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.99	0.00
	215.74																						**0.00**	**0.00**	**0.70**	**32.90**	**178.15**	**4,351.73**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K1317	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)					3.12	0.00
K1322	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)					3.71	125.73
K1323	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)					33.29	1,081.93
K1324	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)					24.90	1,132.95
pp826*	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)					25.76	0.00
pp827*	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)					2.99	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**93.77**	**2,340.61**

POST-PROJECT	**2011**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.70**	**32.90**
Future Potential Habitat	**84.38**	**2,011.12**
TOTAL	**85.08**	**2,044.02**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25P = Mixed Pine Plantation
31 = Loblolly Pine
ND = no data provided

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-147. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K13-05R Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K0820	0.45	73	31	9.82	2.50	12.26	10.00	21.62	32.50	3.88	3.76	2.51	5.50	42.50	50.50	2	40	16	3	1	1	0.45	19.13				
K0921	18.75	61	66**	21.55	6.32	6.07	4.74	7.21	10.53	18.27	9.63	4.38	13.68	15.26	35.26	2	22	51	3	2	0					0.00	0.00
K1201	9.38	61	21	15.62	4.50	4.23	3.00	2.02	2.50	20.61	6.97	0.30	5.50	5.50	15.50	5	45	54	0	0	0					9.38	51.59
K1302	13.97	101	21	13.37	4.21	21.85	15.26	22.37	38.42	10.19	0.55	0.47	1.05	53.68	58.95	1	21	2	3	1	1	13.97	749.91				
K1303	44.91	81	21	16.65	5.00	11.89	8.50	10.46	14.00	16.20	8.08	3.37	11.00	22.50	38.50	2	20	34	3	1	0					44.91	1,010.48
K1307	18.66	81	42**	9.00	3.00	4.31	3.00	8.45	14.50	42.14	8.60	7.44	18.00	17.50	38.50	1	20	56	3	1	0					0.00	0.00
K1308	22.90	81	21	25.89	9.00	27.80	19.50	18.72	24.00	12.12	4.12	2.50	5.50	43.50	58.00	2	18	12	3	1	1	22.90	996.15				
K1312	5.18	85	31	15.68	5.00	13.02	9.00	26.59	42.00	16.26	6.13	3.05	9.00	51.00	65.00	1	26	19	3	1	1	5.18	264.18				
K1314	12.57	83	21	32.44	10.50	28.95	22.00	15.04	18.50	9.15	0.82	0.44	1.00	40.50	52.00	1	28	3	3	1	1	12.57	509.09				
	146.77																					**55.07**	**2,538.46**	**0.00**	**0.00**	**54.29**	**1,062.07**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K1201	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)					4.44	24.42
K1303	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)					0.07	1.58
K1312	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)	0.25	12.75				
K1314	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)	12.52	507.06				
			TOTAL REMOVALS	**12.77**	**519.81**	**0.00**	**0.00**	**4.51**	**26.00**

POST-PROJECT	**2011**	
	Acres	**BA**
Suitable Habitat	**42.30**	**2,018.65**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**49.78**	**1,036.07**
TOTAL	**92.08**	**3,054.72**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)
66** = Oak-Hickory (managed for hardwoods)

Appendix Table H-148. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K13-05R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K0820	0.45	73	31	9.82	2.50	12.26	10.00	21.62	32.50	3.88	3.76	2.51	5.50	42.50	50.50	2	40	16	3	1	4.79	CS	0.45	19.13				
K0921	18.75	61	66**	21.55	6.32	6.07	4.74	7.21	10.53	18.27	9.63	4.38	13.68	15.26	35.26	2	22	51	3	2	3.60	PS					0.00	0.00
K1201	9.38	61	21	15.62	4.50	4.23	3.00	2.02	2.50	20.61	6.97	0.30	5.50	5.50	15.50	5	45	54	0	0	2.85	PS					9.38	51.59
K1302	13.97	101	21	13.37	4.21	21.85	15.26	22.37	38.42	10.19	0.55	0.47	1.05	53.68	58.95	1	21	2	3	1	4.65	CS	13.97	749.91				
K1303	44.91	81	21	16.65	5.00	11.89	8.50	10.46	14.00	16.20	8.08	3.37	11.00	22.50	38.50	2	20	34	3	1	3.66	PS					44.91	1,010.48
K1307	18.66	81	42**	9.00	3.00	4.31	3.00	8.45	14.50	42.14	8.60	7.44	18.00	17.50	38.50	1	20	56	3	1	3.36	PS					0.00	0.00
K1308	22.90	81	21	25.89	9.00	27.80	19.50	18.72	24.00	12.12	4.12	2.50	5.50	43.50	58.00	2	18	12	3	1	4.47	PS			22.90	996.15		
K1312	5.18	85	31	15.68	5.00	13.02	9.00	26.59	42.00	16.26	6.13	3.05	9.00	51.00	65.00	1	26	19	3	1	4.52	CS	5.18	264.18				
K1314	12.57	83	21	32.44	10.50	28.95	22.00	15.04	18.50	9.15	0.82	0.44	1.00	40.50	52.00	1	28	3	3	1	4.30	PS					12.57	509.09
	146.77																						**19.60**	**1,033.22**	**22.90**	**996.15**	**66.86**	**1,571.16**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K1201	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)					4.44	24.42
K1303	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)					0.07	1.58
K1312	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)	0.25	12.75				
K1314	2011	64551	Beaten Area for Multi-purpose Training Range (MPTR)					12.52	507.06
			TOTAL REMOVALS	**0.25**	**12.75**	**0.00**	**0.00**	**17.03**	**533.06**

POST-PROJECT

	2011 Acres	2011 BA
Suitable Habitat	**19.35**	**1,020.47**
Potentially Suitable Habitat	**22.90**	**996.15**
Future Potential Habitat	**49.83**	**1,038.11**
TOTAL	**92.08**	**3,054.73**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)
66** = Oak-Hickory (managed for hardwoods)

Appendix Table H-149. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K13-06 Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height	Hwd Midstory Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K0729	2.78	0	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					2.78	0.00
K1315	12.03	46	31	115.64	31.50	22.71	16.00	13.24	20.50	4.43	5.57	1.37	5.50	36.50	73.50	5	28	16	3	1	0			12.03	439.10		
K1316	0.51	43	31	103.86	31.00	45.61	32.00	11.66	15.50	7.74	6.01	0.69	4.50	47.50	83.00	1	25	10	3	1	0			0.00	0.00		
K1322	6.77	52	31	65.13	18.33	19.67	13.89	13.54	20.00	4.13	0.92	0.41	1.11	33.89	53.33	1	29	4	3	1	1	6.77	229.44				
K1323	15.45	52	21	14.92	5.00	10.96	8.00	15.74	24.50	3.03	1.26	2.05	4.00	32.50	41.50	1	25	11	3	1	1	15.45	502.13				
K1327	11.53	70	31	12.45	3.64	21.57	16.36	15.62	21.82	0.00	3.65	0.60	3.64	38.18	45.45	2	28	10	3	1	1	11.53	440.22				
K1328	41.60	70	31	27.75	6.67	12.71	9.44	17.34	26.11	5.69	0.00	0.00	0.00	35.56	42.22	4	25	0	3	1	0			41.60	1,479.30		
K1329	75.85	66	31	21.88	7.50	20.06	13.50	21.64	33.50	3.19	1.52	1.04	2.50	47.00	57.00	5	30	6	3	1	0			75.85	3,564.95		
K1330	13.97	41	25P	159.25	46.50	39.81	26.50	2.22	3.00	0.00	0.00	0.00	0.00	29.50	76.00	1	25	0	3	1	0					0.00	0.00
K1334	21.14	43	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					21.14	0.00
pp419*	13.85	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					13.85	0.00
pp603*	0.01	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp828*	3.37	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.37	0.00
pp829*	5.56	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.56	0.00
	224.42																					**33.75**	**1,171.79**	**129.48**	**5,483.35**	**46.70**	**0.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K1328	2010	65557	Repair Existing Training Area Roads, Phase 1			0.63	22.40		
K1334	2010	65557	Repair Existing Training Area Roads, Phase 1					1.87	0.00
pp828*	2010	65557	Repair Existing Training Area Roads, Phase 1					1.43	0.00
pp829*	2010	65557	Repair Existing Training Area Roads, Phase 1					1.35	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.63**	**22.40**	**4.65**	**0.00**

POST-PROJECT

	2010 Acres	BA
Suitable Habitat	**33.75**	**1,171.79**
Potentially Suitable Habitat	**128.85**	**5,460.95**
Future Potential Habitat	**42.05**	**0.00**
TOTAL	**204.65**	**6,632.74**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25P = Mixed Pine Plantation
31 = Loblolly Pine
NM = not managed
ND = no data provided

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-150. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K13-06**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K0729	2.78	0	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					2.78	0.00
K1315	12.03	46	31	115.64	31.50	22.71	16.00	13.24	20.50	4.43	5.57	1.37	5.50	36.50	73.50	5	28	16	3	1	3.66	PS					12.03	439.10
K1316	0.51	43	31	103.86	31.00	45.61	32.00	11.66	15.50	7.74	6.01	0.69	4.50	47.50	83.00	1	25	10	3	1	3.71	PS					0.00	0.00
K1322	6.77	52	31	65.13	18.33	19.67	13.89	13.54	20.00	4.13	0.92	0.41	1.11	33.89	53.33	1	29	4	3	1	3.65	PS					6.77	229.44
K1323	15.45	52	21	14.92	5.00	10.96	8.00	15.74	24.50	3.03	1.26	2.05	4.00	32.50	41.50	1	25	11	3	1	4.19	PS					15.45	502.13
K1327	11.53	70	31	12.45	3.64	21.57	16.36	15.62	21.82	0.00	3.65	0.60	3.64	38.18	45.45	2	28	10	3	1	4.38	PS					11.53	440.22
K1328	41.60	70	31	27.75	6.67	12.71	9.44	17.34	26.11	5.69	0.00	0.00	0.00	35.56	42.22	4	25	0	3	1	4.30	PS					41.60	1,479.30
K1329	75.85	66	31	21.88	7.50	20.06	13.50	21.64	33.50	3.19	1.52	1.04	2.50	47.00	57.00	5	30	6	3	1	4.51	PS			75.85	3,564.95		
K1330	13.97	41	25P	159.25	46.50	39.81	26.50	2.22	3.00	0.00	0.00	0.00	0.00	29.50	76.00	1	25	0	3	1	2.95	PS					0.00	0.00
K1334	21.14	43	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.34	PS					21.14	0.00
pp419*	13.85	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					13.85	0.00
pp603*	0.01	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp828*	3.37	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.37	0.00
pp829*	5.56	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					5.56	0.00
	224.42																						**0.00**	**0.00**	**75.85**	**3,564.95**	**134.08**	**3,090.19**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K1328	2010	65557	Repair Existing Training Area Roads, Phase 1					0.63	22.40
K1334	2010	65557	Repair Existing Training Area Roads, Phase 1					1.87	0.00
pp828*	2010	65557	Repair Existing Training Area Roads, Phase 1					1.43	0.00
pp829*	2010	65557	Repair Existing Training Area Roads, Phase 1					1.35	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**5.28**	**22.40**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**75.85**	**3,564.95**
Future Potential Habitat	**128.80**	**3,067.79**
TOTAL	**204.65**	**6,632.74**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25P = Mixed Pine Plantation
31 = Loblolly Pine
NM = not managed
ND = no data provided

*** Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-151. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K21-02R Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K1819	76.49	42	31	19.17	6.00	12.52	9.00	7.99	10.00	10.92	0.85	0.50	1.00	19.00	26.00	1	37	6	3	1	0					0.00	0.00
K1820	6.72	51	21	36.36	12.00	31.91	22.00	6.83	9.50	4.51	0.00	0.00	0.00	31.50	43.50	1	29	0	3	1	1	0.00	0.00				
K2102	97.16	63	21	24.21	5.79	18.01	13.16	17.01	25.79	13.37	6.43	2.47	7.89	38.95	52.63	1	12	20	3	1	1	97.16	3,784.38				
K2103	51.25	87	21	17.50	4.50	13.19	10.00	25.81	41.50	0.00	0.00	0.72	2.00	51.50	58.00	1	30	2	3	1	1	51.25	2,639.38				
K2104	21.76	52	31	21.32	6.00	18.25	14.00	19.08	27.00	0.00	0.00	0.00	0.00	41.00	47.00	2	45	0	3	1	1	21.76	892.16				
K2106	4.85	58	21	7.08	1.67	18.46	14.44	16.16	25.56	5.48	0.00	0.73	1.11	40.00	42.78	2	36	2	3	1	1	4.85	194.00				
K2214	0.01	40	31	65.42	17.50	34.64	23.50	10.13	14.00	17.30	3.80	1.37	4.50	37.50	59.50	1	23	10	3	1	1	0.00	0.00				
K2219	33.15	65	21	22.33	5.88	11.11	8.24	9.77	15.29	4.95	0.94	0.55	1.76	23.53	31.18	1	15	7	3	1	0					33.15	780.02
	291.39																					**175.02**	**7,509.92**	**0.00**	**0.00**	**33.15**	**780.02**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K2102	2009	69743	Southern Training Area Infrastructure-Maneuvuer Area	16.75	652.41				
K2104	2009	69743	Southern Training Area Infrastructure-Maneuvuer Area	15.03	616.23				
K2106	2009	69743	Southern Training Area Infrastructure-Maneuvuer Area	0.41	16.40				
K2219	2009	69743	Southern Training Area Infrastructure-Maneuvuer Area					4.66	109.65
			TOTAL REMOVALS	**32.19**	**1,285.04**	**0.00**	**0.00**	**4.66**	**109.65**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**142.83**	**6,224.88**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**28.49**	**670.37**
TOTAL	**171.32**	**6,895.25**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-152. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K21-02R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K1819	76.49	42	31	19.17	6.00	12.52	9.00	7.99	10.00	10.92	0.85	0.50	1.00	19.00	26.00	1	37	6	3	1	3.53	PS					0.00	0.00
K1820	6.72	51	21	36.36	12.00	31.91	22.00	6.83	9.50	4.51	0.00	0.00	0.00	31.50	43.50	1	29	0	3	1	3.47	PS					0.00	0.00
K2102	97.16	63	21	24.21	5.79	18.01	13.16	17.01	25.79	13.37	6.43	2.47	7.89	38.95	52.63	1	12	20	3	1	4.20	PS					97.16	3,784.38
K2103	51.25	87	21	17.50	4.50	13.19	10.00	25.81	41.50	0.00	0.00	0.72	2.00	51.50	58.00	1	30	2	3	1	4.65	CS	51.25	2,639.38				
K2104	21.76	52	31	21.32	6.00	18.25	14.00	19.08	27.00	0.00	0.00	0.00	0.00	41.00	47.00	2	45	0	3	1	4.70	PS					21.76	892.16
K2106	4.85	58	21	7.08	1.67	18.46	14.44	16.16	25.56	5.48	0.00	0.73	1.11	40.00	42.78	2	36	2	3	1	4.46	PS					4.85	194.00
K2214	0.01	40	31	65.42	17.50	34.64	23.50	10.13	14.00	17.30	3.80	1.37	4.50	37.50	59.50	1	23	10	3	1	3.57	PS					0.00	0.00
K2219	33.15	65	21	22.33	5.88	11.11	8.24	9.77	15.29	4.95	0.94	0.55	1.76	23.53	31.18	1	15	7	3	1	3.94	PS					33.15	780.02
	291.39																						**51.25**	**2,639.38**	**0.00**	**0.00**	**156.92**	**5,650.56**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K2102	2009	69743	Southern Training Area Infrastructure-Maneuvuer Area					16.75	652.41
K2104	2009	69743	Southern Training Area Infrastructure-Maneuvuer Area					15.03	616.23
K2106	2009	69743	Southern Training Area Infrastructure-Maneuvuer Area					0.41	16.40
K2219	2009	69743	Southern Training Area Infrastructure-Maneuvuer Area					4.66	109.65
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**36.85**	**1,394.69**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**51.25**	**2,639.38**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**120.07**	**4,255.87**
TOTAL	**171.32**	**6,895.25**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-153. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K21-05R, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
F0201	3.32	45	25	3.18	1.11	23.01	17.78	23.30	32.22	0.00	0.00	0.00	0.00	50.00	51.11	1	12	0	3	1	1	3.32	166.00				
F0202	8.49	53	22P	9.59	2.00	22.76	18.00	13.51	18.00	0.00	0.53	0.00	0.50	36.00	38.50	1	25	1	3	1	1	8.49	305.64				
F0203	0.03	53	10	5.81	2.00	6.52	4.50	9.23	14.50	8.64	3.28	3.75	9.00	19.00	30.00	1	24	31	3	1	0					0.03	0.57
F0205	1.93	64	13	2.90	1.43	10.34	7.14	18.39	30.00	9.04	0.00	1.83	2.86	37.14	41.43	2	9	6	3	1	1	1.93	71.68				
K2103	2.30	87	21	17.50	4.50	13.19	10.00	25.81	41.50	0.00	0.00	0.72	2.00	51.50	58.00	1	30	2	3	1	1	2.30	118.45				
K2104	4.96	52	31	21.32	6.00	18.25	14.00	19.08	27.00	0.00	0.00	0.00	0.00	41.00	47.00	2	45	0	3	1	1	4.96	203.36				
K2106	110.04	58	21	7.08	1.67	18.46	14.44	16.16	25.56	5.48	0.00	0.73	1.11	40.00	42.78	2	36	2	3	1	1	110.04	4,401.60				
K2108	90.06	62	31	10.27	2.11	16.79	12.63	21.05	32.63	12.26	4.37	2.35	6.84	45.26	54.21	1	15	15	3	1	1	90.06	4,076.12				
K2109	2.42	82	31	39.58	12.00	28.84	19.50	18.35	27.00	1.77	0.00	1.62	2.50	46.50	61.00	1	22	3	3	1	1	2.42	112.53				
K2111	10.89	67	21	17.48	3.68	10.76	7.89	13.19	21.58	10.44	8.37	6.93	17.89	29.47	51.05	2	28	39	3	1	0					10.89	320.93
K2113	17.06	65	21	6.16	2.50	16.14	13.00	24.23	36.00	1.51	0.74	1.17	3.50	49.00	55.00	1	33	5	3	1	1	17.06	835.94				
K2115	4.80	65	21	2.46	0.50	20.86	15.50	12.74	18.50	5.73	0.94	3.01	6.00	34.00	40.50	1	28	10	3	1	1	4.80	163.20				
pp1042*	2.11	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.11	0.00
pp1044*	14.36	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					14.36	0.00
	272.77																					**245.38**	**10,454.52**	**0.00**	**0.00**	**27.39**	**321.50**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
F0201	2009	69743	Southern Training Area Infrastructure-Maneuver Area	1.92	96.00				
F0202	2009	69743	Southern Training Area Infrastructure-Maneuver Area	7.04	253.44				
F0203	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.03	0.57
F0205	2009	69743	Southern Training Area Infrastructure-Maneuver Area	0.86	31.94				
K2104	2009	69743	Southern Training Area Infrastructure-Maneuver Area	4.95	202.95				
K2106	2009	69743	Southern Training Area Infrastructure-Maneuver Area	42.05	1,682.00				
K2108	2009	69743	Southern Training Area Infrastructure-Maneuver Area	2.39	108.17				
			2009 SUB-TOTAL	**59.21**	**2,374.50**	**0.00**	**0.00**	**0.03**	**0.57**
F0201	2010	65557	Repair Existing Training Area Roads, Phase 1	1.40	70.00				
F0202	2010	65557	Repair Existing Training Area Roads, Phase 1	1.45	52.20				
F0205	2010	65557	Repair Existing Training Area Roads, Phase 1	1.06	39.37				
K2104	2010	65557	Repair Existing Training Area Roads, Phase 1	0.01	0.41				
K2106	2010	65557	Repair Existing Training Area Roads, Phase 1	4.12	164.80				
K2108	2010	65557	Repair Existing Training Area Roads, Phase 1	1.53	69.25				
			2010 SUB-TOTAL	**9.57**	**396.03**	**0.00**	**0.00**	**0.00**	**0.00**
			TOTAL REMOVALS	**68.78**	**2,770.53**	**0.00**	**0.00**	**0.03**	**0.57**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**186.17**	**8,080.02**	**176.60**	**7,683.99**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**27.36**	**320.93**	**27.36**	**320.93**
TOTAL	**213.53**	**8,400.95**	**203.96**	**8,004.92**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-154. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **K21-05R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
F0201	3.32	45	25	3.18	1.11	23.01	17.78	23.30	32.22	0.00	0.00	0.00	0.00	50.00	51.11	1	12	0	3	1	4.27	PS					3.32	166.00
F0202	8.49	53	22P	9.59	2.00	22.76	18.00	13.51	18.00	0.00	0.53	0.00	0.50	36.00	38.50	1	25	1	3	1	4.17	PS					8.49	305.64
F0203	0.03	53	10	5.81	2.00	6.52	4.50	9.23	14.50	8.64	3.28	3.75	9.00	19.00	30.00	1	24	31	3	1	3.47	PS					0.03	0.57
F0205	1.93	64	13	2.90	1.43	10.34	7.14	18.39	30.00	9.04	0.00	1.83	2.86	37.14	41.43	2	9	6	3	1	4.39	CS	1.93	71.68				
K2103	2.30	87	21	17.50	4.50	13.19	10.00	25.81	41.50	0.00	0.00	0.72	2.00	51.50	58.00	1	30	2	3	1	4.65	CS	2.30	118.45				
K2104	4.96	52	31	21.32	6.00	18.25	14.00	19.08	27.00	0.00	0.00	0.00	0.00	41.00	47.00	2	45	0	3	1	4.70	PS					4.96	203.36
K2106	110.04	58	21	7.08	1.67	18.46	14.44	16.16	25.56	5.48	0.00	0.73	1.11	40.00	42.78	2	36	2	3	1	4.46	PS					110.04	4,401.60
K2108	90.06	62	31	10.27	2.11	16.79	12.63	21.05	32.63	12.26	4.37	2.35	6.84	45.26	54.21	1	15	15	3	1	4.48	CS	90.06	4,076.12				
K2109	2.42	82	31	39.58	12.00	28.84	19.50	18.35	27.00	1.77	0.00	1.62	2.50	46.50	61.00	1	22	3	3	1	4.58	PS			2.42	112.53		
K2111	10.89	67	21	17.48	3.68	10.76	7.89	13.19	21.58	10.44	8.37	6.93	17.89	29.47	51.05	2	28	39	3	1	4.14	PS					10.89	320.93
K2113	17.06	65	21	6.16	2.50	16.14	13.00	24.23	36.00	1.51	0.74	1.17	3.50	49.00	55.00	1	33	5	3	1	4.75	CS	17.06	835.94				
K2115	4.80	65	21	2.46	0.50	20.86	15.50	12.74	18.50	5.73	0.94	3.01	6.00	34.00	40.50	1	28	10	3	1	4.09	PS					4.80	163.20
pp1042*	2.11	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.11	0.00
pp1044*	14.36	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					14.36	0.00
	272.77																						**111.35**	**5,102.19**	**2.42**	**112.53**	**159.00**	**5,561.30**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
F0201	2009	69743	Southern Training Area Infrastructure-Maneuver Area					1.92	96.00
F0202	2009	69743	Southern Training Area Infrastructure-Maneuver Area					7.04	253.44
F0203	2009	69743	Southern Training Area Infrastructure-Maneuver Area					0.03	0.57
F0205	2009	69743	Southern Training Area Infrastructure-Maneuver Area	0.86	31.94				
K2104	2009	69743	Southern Training Area Infrastructure-Maneuver Area					4.95	202.95
K2106	2009	69743	Southern Training Area Infrastructure-Maneuver Area					42.05	1,682.00
K2108	2009	69743	Southern Training Area Infrastructure-Maneuver Area	2.39	108.17				
			2009 SUB-TOTAL	**3.25**	**140.11**	**0.00**	**0.00**	**55.99**	**2,234.96**
F0201	2010	65557	Repair Existing Training Area Roads, Phase 1					1.40	70.00
F0202	2010	65557	Repair Existing Training Area Roads, Phase 1					1.45	52.20
F0205	2010	65557	Repair Existing Training Area Roads, Phase 1	1.06	39.37				
K2104	2010	65557	Repair Existing Training Area Roads, Phase 1					0.01	0.41
K2106	2010	65557	Repair Existing Training Area Roads, Phase 1					4.12	164.80
K2108	2010	65557	Repair Existing Training Area Roads, Phase 1	1.53	69.25				
			2010 SUB-TOTAL	**2.59**	**108.62**	**0.00**	**0.00**	**6.98**	**287.41**
			TOTAL REMOVALS	**5.84**	**248.73**	**0.00**	**0.00**	**62.97**	**2,522.37**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**108.10**	**4,962.08**	**105.51**	**4,853.46**
Potentially Suitable Habitat	**2.42**	**112.53**	**2.42**	**112.53**
Future Potential Habitat	**103.01**	**3,326.34**	**96.03**	**3,038.93**
TOTAL	**213.53**	**8,400.95**	**203.96**	**8,004.92**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-155. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **KPR-01 Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
E0101	25.69	87	31	21.13	6.00	10.30	7.50	23.66	38.50	13.12	5.79	2.52	8.50	46.00	60.50	2	30	20	3	1	1	25.69	1,181.74				
E0204	0.17	51	25	26.40	7.00	15.88	11.50	12.86	23.00	10.53	2.72	3.20	7.50	34.50	49.00	2	22	17	3	1	1	0.17	5.87				
E0206	15.81	51	21	21.75	6.00	21.09	15.50	7.99	11.00	3.95	6.80	2.94	8.50	26.50	41.00	2	32	25	3	1	0					15.81	418.97
E0207	0.12	51	13	1.13	0.50	3.16	2.50	10.51	21.00	14.82	11.15	14.92	36.50	23.50	60.50	6	11	66	3	1	0					0.12	2.82
KPR01	34.73	87	26	24.09	6.00	15.97	12.50	25.74	39.50	7.58	1.14	0.00	1.00	52.00	59.00	9	61	3	3	1	0			34.73	1,805.96		
KPR02	18.75	51	10	4.81	2.00	6.88	5.50	21.90	39.50	25.27	7.30	5.02	12.50	45.00	59.50	1	26	30	3	1	1	18.75	843.75				
pp307*	1.26	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp340*	3.99	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp634*	8.10	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					8.10	0.00
T0713	5.21	12	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
T0714	33.02	42	31	40.22	11.67	16.70	12.22	13.79	20.00	4.17	1.61	1.20	2.78	32.22	46.67	5	32	8	0	0	0			33.02	1,063.90		
T0719	3.47	36	31	64.39	14.29	8.57	5.71	10.88	17.14	18.19	8.36	2.63	10.00	22.86	47.14	1	54	36	0	0	0					3.47	79.32
T0721	37.42	42	31	27.92	7.00	36.21	24.50	30.21	42.00	19.84	7.17	2.99	8.50	66.50	82.00	1	12	13	0	0	1	37.42	2,488.43				
	187.74																					**82.03**	**4,519.79**	**67.75**	**2,869.86**	**27.50**	**501.11**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
E0101	2010	65557	Repair Existing Training Area Roads, Phase 1	3.28	150.88				
E0206	2010	65557	Repair Existing Training Area Roads, Phase 1					2.63	69.70
KPR01	2010	65557	Repair Existing Training Area Roads, Phase 1			3.51	182.52		
KPR02	2010	65557	Repair Existing Training Area Roads, Phase 1	1.35	60.75				
T0714	2010	65557	Repair Existing Training Area Roads, Phase 1			4.29	138.22		
T0719	2010	65557	Repair Existing Training Area Roads, Phase 1					0.59	13.49
T0721	2010	65557	Repair Existing Training Area Roads, Phase 1	6.00	399.00				
			TOTAL REMOVALS	**10.63**	**610.63**	**7.80**	**320.74**	**3.22**	**83.19**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**71.40**	**3,909.16**
Potentially Suitable Habitat	**59.95**	**2,549.12**
Future Potential Habitat	**24.28**	**417.92**
TOTAL	**155.63**	**6,876.20**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
NM = not managed

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-156. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **KPR-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
E0101	25.69	87	31	21.13	6.00	10.30	7.50	23.66	38.50	13.12	5.79	2.52	8.50	46.00	60.50	2	30	20	3	1	4.61	PS			25.69	1,181.74		
E0204	0.17	51	25	26.40	7.00	15.88	11.50	12.86	23.00	10.53	2.72	3.20	7.50	34.50	49.00	2	22	17	3	1	4.00	PS					0.17	5.87
E0206	15.81	51	21	21.75	6.00	21.09	15.50	7.99	11.00	3.95	6.80	2.94	8.50	26.50	41.00	2	32	25	3	1	3.52	PS					15.81	418.97
E0207	0.12	51	13	1.13	0.50	3.16	2.50	10.51	21.00	14.82	11.15	14.92	36.50	23.50	60.50	6	11	66	3	1	3.47	PS					0.12	2.82
KPR01	34.73	87	26	24.09	6.00	15.97	12.50	25.74	39.50	7.58	1.14	0.00	1.00	52.00	59.00	9	61	3	3	1	4.38	PS			34.73	1,805.96		
KPR02	18.75	51	10	4.81	2.00	6.88	5.50	21.90	39.50	25.27	7.30	5.02	12.50	45.00	59.50	1	26	30	3	1	4.26	PS					18.75	843.75
pp307*	1.26	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp340*	3.99	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp634*	8.10	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					8.10	0.00
T0713	5.21	12	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
T0714	33.02	42	31	40.22	11.67	16.70	12.22	13.79	20.00	4.17	1.61	1.20	2.78	32.22	46.67	5	32	8	0	0	3.76	PS					33.02	1,063.90
T0719	3.47	36	31	64.39	14.29	8.57	5.71	10.88	17.14	18.19	8.36	2.63	10.00	22.86	47.14	1	54	36	0	0	3.35	PS					3.47	79.32
T0721	37.42	42	31	27.92	7.00	36.21	24.50	30.21	42.00	19.84	7.17	2.99	8.50	66.50	82.00	1	12	13	0	0	2.19	PS					37.42	2,488.43
	187.74																						**0.00**	**0.00**	**60.42**	**2,987.70**	**116.86**	**4,903.06**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
E0101	2010	65557	Repair Existing Training Area Roads, Phase 1			3.28	150.88		
E0206	2010	65557	Repair Existing Training Area Roads, Phase 1					2.63	69.70
KPR01	2010	65557	Repair Existing Training Area Roads, Phase 1			3.51	182.52		
KPR02	2010	65557	Repair Existing Training Area Roads, Phase 1					1.35	60.75
T0714	2010	65557	Repair Existing Training Area Roads, Phase 1					4.29	138.22
T0719	2010	65557	Repair Existing Training Area Roads, Phase 1					0.59	13.49
T0721	2010	65557	Repair Existing Training Area Roads, Phase 1					6.00	399.00
			TOTAL REMOVALS	**0.00**	**0.00**	**6.79**	**333.40**	**14.86**	**681.16**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**53.63**	**2,654.30**
Future Potential Habitat	**102.00**	**4,221.90**
TOTAL	**155.63**	**6,876.20**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
NM = not managed

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-157. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **L02-02R**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
L0104	13.75	61	31	48.50	12.78	33.02	22.22	13.87	20.00	15.08	0.65	1.97	2.78	42.22	57.78	1	34	5	3	1	1	13.75	580.53				
L0118	19.27	53	22P	167.71	48.00	22.20	14.00	0.42	0.50	3.61	2.55	0.86	3.00	14.50	65.50	1	19	13	3	1	0					19.27	279.42
L0120	2.09	40	31	53.26	16.00	24.71	17.00	6.89	10.00	21.52	5.71	2.35	7.00	27.00	50.00	2	17	20	3	1	0					2.09	56.43
L0201	9.19	87	31	59.50	20.00	18.22	13.33	6.47	16.67	7.86	0.00	1.34	2.22	30.00	52.22	8	28	5	3	1	0			9.19	275.70		
L0202	4.86	87	21	34.08	7.50	17.25	12.50	29.31	50.00	0.00	0.00	2.09	2.50	62.50	72.50	1	15	4	3	1	1	4.86	303.75				
L0203	7.38	87	31	45.22	11.43	27.69	20.00	13.87	18.57	0.00	0.00	0.00	0.00	38.57	50.00	1	34	0	3	1	1	7.38	284.65				
L0204	90.79	87	21	7.01	2.35	9.13	7.06	19.00	30.59	4.06	1.74	2.31	5.88	37.65	45.88	1	21	13	3	1	1	90.79	3,418.24				
L0205	25.06	87	31	31.93	10.00	12.40	8.46	6.35	10.77	15.21	5.68	0.72	4.62	19.23	33.85	8	18	25	3	1	0					25.06	481.90
L0208	0.47	45	13	17.08	6.67	14.08	10.00	3.26	3.33	37.54	4.46	0.00	3.33	13.33	23.33	5	10	20	3	1	0					0.47	6.27
L0305	16.78	44	31	41.20	12.50	22.67	17.50	7.30	10.50	32.32	7.25	2.24	9.50	28.00	50.00	7	17	24	3	1	0					16.78	469.84
L0310	14.98	83	31	7.16	2.50	17.35	13.13	20.94	38.75	7.98	6.70	1.66	6.88	51.88	61.25	8	26	18	3	1	0			14.98	777.16		
L0312	0.44	61	42**	16.14	4.50	7.35	5.50	9.49	20.00	19.77	10.59	5.89	18.00	25.50	48.00	7	22	49	3	1	0					0.00	0.00
L0315	19.37	83	13	16.01	5.00	5.42	3.89	10.99	19.44	9.97	9.00	8.39	17.22	23.33	45.56	2	21	51	3	1	0					19.37	451.90
L0401	0.06	45	31S	59.75	15.00	22.36	15.00	5.53	7.50	16.51	0.00	0.00	0.00	22.50	37.50	1	20	0	3	1	0					0.06	1.35
O1236	3.52	95	31	17.59	5.50	8.36	6.00	5.84	7.50	49.36	12.90	5.98	18.00	13.50	37.00	7	11	57	3	1	0					3.52	47.52
O1237	9.54	50	31	16.19	4.50	8.36	6.00	10.79	17.50	5.76	1.59	0.30	1.50	23.50	29.50	1	28	9	3	1	0					9.54	224.19
O1337	0.53	50	31P	52.68	15.50	43.67	30.50	14.73	19.50	21.75	6.53	2.95	9.50	50.00	75.00	1	22	14	3	1	1	0.53	26.50				
O1339	8.64	50	31	25.03	6.67	10.56	7.22	9.15	14.44	6.91	0.72	1.56	3.33	21.67	31.67	1	36	10	3	1	0					8.64	187.23
pp104*	6.40	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					6.40	0.00
pp688*	0.86	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.86	0.00
	253.98																					**117.31**	**4,613.67**	**24.17**	**1,052.86**	**112.06**	**2,206.05**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
L0104	2009	69741	Training Area Infrastructure-19D/K OSUT	2.48	104.71				
L0118	2009	69741	Training Area Infrastructure-19D/K OSUT					6.56	95.12
L0120	2009	69741	Training Area Infrastructure-19D/K OSUT					1.16	31.32
L0201	2009	69741	Training Area Infrastructure-19D/K OSUT			3.04	91.20		
L0201	2009	65554	Construct Training Area Roads, Paved			0.34	10.20		
L0203	2009	69741	Training Area Infrastructure-19D/K OSUT	4.72	182.05				
L0203	2009	65554	Construct Training Area Roads, Paved	0.99	38.18				
L0204	2009	69741	Training Area Infrastructure-19D/K OSUT	25.29	952.17				
L0204	2009	65554	Construct Training Area Roads, Paved	1.01	38.03				
L0205	2009	69741	Training Area Infrastructure-19D/K OSUT					1.20	23.08
I 0208	2009	69741	Training Area Infrastructure-19D/K OSUT					0.47	6.27
L0305	2009	69741	Training Area Infrastructure-19D/K OSUT					5.16	144.48
L0310	2009	69741	Training Area Infrastructure-19D/K OSUT			4.37	226.72		
L0315	2009	69741	Training Area Infrastructure-19D/K OSUT					7.17	167.28
L0401	2009	69741	Training Area Infrastructure-19D/K OSUT					0.06	1.35
O1337	2009	69741	Training Area Infrastructure-19D/K OSUT	0.14	7.00				
O1337	2009	65554	Construct Training Area Roads, Paved	0.34	17.00				
O1339	2009	69741	Training Area Infrastructure-19D/K OSUT					1.46	31.64
O1339	2009	65554	Construct Training Area Roads, Paved					0.45	9.75
pp104*	2009	69741	Training Area Infrastructure-19D/K OSUT					2.14	0.00
pp688*	2009	69741	Training Area Infrastructure-19D/K OSUT					0.33	0.00
pp688*	2009	65554	Construct Training Area Roads, Paved					0.28	0.00
			2009 SUB-TOTAL	**34.97**	**1,339.14**	**7.75**	**328.12**	**26.44**	**510.29**
L0201	2010	65557	Repair Existing Training Area Roads, Phase 1			0.16	4.80		
O1237	2010	65557	Repair Existing Training Area Roads, Phase 1					6.84	160.74
O1337	2010	65557	Repair Existing Training Area Roads, Phase 1	0.05	2.50				
O1339	2010	65557	Repair Existing Training Area Roads, Phase 1					2.50	54.18
			2010 SUB-TOTAL	**0.05**	**2.50**	**0.16**	**4.80**	**9.34**	**214.92**
			TOTAL REMOVALS	**35.02**	**1,341.64**	**7.91**	**332.92**	**35.78**	**725.21**

POST-PROJECT	**2009 SUB-TOTAL**		**non-contiguous habitat**		**2009 TOTAL**		**2010 SUB-TOTAL**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**82.34**	**3,274.53**	**11.27**	**475.82**	**71.07**	**2,798.71**	**71.02**	**2,796.21**
Potentially Suitable Habitat	**16.42**	**724.74**	**10.61**	**550.44**	**5.81**	**174.30**	**5.65**	**169.50**
Future Potential Habitat	**85.62**	**1,695.76**	**41.97**	**819.40**	**43.65**	**876.36**	**34.31**	**661.44**
TOTAL	**184.38**	**5,695.03**	**63.85**	**1,845.66**	**120.53**	**3,849.37**	**110.98**	**3,627.15**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf pine plantation
22P = Slash Pine Plantation
31 = Loblolly Pine
31P = Loblolly pine plantation
31S = Loblolly Pine Scrub Oak
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)

* Note: No pine data collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Stands L0104, L0118, L0120, L0208, L0305, L0310, L0315, pp104 and pp688 will be non-contiguous as a result of FY 2009 project impacts and cannot be counted towards the available foraging habitat for the partition.

Appendix Table H-158. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **L02-02R**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
L0104	13.75	61	31	48.50	12.78	33.02	22.22	13.87	20.00	15.08	0.65	1.97	2.78	42.22	57.78	1	34	5	3	1	3.65	PS					13.75	580.53
L0118	19.27	53	22P	167.71	48.00	22.20	14.00	0.42	0.50	3.61	2.55	0.86	3.00	14.50	65.50	1	19	13	3	1	2.57	PS					19.27	279.42
L0120	2.09	40	31	53.26	16.00	24.71	17.00	6.89	10.00	21.52	5.71	2.35	7.00	27.00	50.00	2	17	20	3	1	2.88	PS					2.09	56.43
L0201	9.19	87	31	59.50	20.00	18.22	13.33	6.47	16.67	7.86	0.00	1.34	2.22	30.00	52.22	8	28	5	3	1	3.19	PS					9.19	275.70
L0202	4.86	87	21	34.08	7.50	17.25	12.50	29.31	50.00	0.00	0.00	2.09	2.50	62.50	72.50	1	15	4	3	1	4.19	PS			4.86	303.75		
L0203	7.38	87	31	45.22	11.43	27.69	20.00	13.87	18.57	0.00	0.00	0.00	0.00	38.57	50.00	1	34	0	3	1	4.01	PS					7.38	284.65
L0204	90.79	87	21	7.01	2.35	9.13	7.06	19.00	30.59	4.06	1.74	2.31	5.88	37.65	45.88	1	21	13	3	1	4.28	CS	90.79	3,418.24				
L0205	25.06	87	31	31.93	10.00	12.40	8.46	6.35	10.77	15.21	5.68	0.72	4.62	19.23	33.85	8	18	25	3	1	2.90	PS					25.06	481.90
L0208	0.47	45	13	17.08	6.67	14.08	10.00	3.26	3.33	37.54	4.46	0.00	3.33	13.33	23.33	5	10	20	3	1	2.36	PS					0.47	6.27
L0305	16.78	44	31	41.20	12.50	22.67	17.50	7.30	10.50	32.32	7.25	2.24	9.50	28.00	50.00	7	17	24	3	1	2.70	PS					16.78	469.84
L0310	14.98	83	31	7.16	2.50	17.35	13.13	20.94	38.75	7.98	6.70	1.66	6.88	51.88	61.25	8	26	18	3	1	2.70	PS			14.98	777.16		
L0312	0.44	61	42**	16.14	4.50	7.35	5.50	9.49	20.00	19.77	10.59	5.89	18.00	25.50	48.00	7	22	49	3	1	3.99	PS					0.00	0.00
L0315	19.37	83	13	16.01	5.00	5.42	3.89	10.99	19.44	9.97	9.00	8.39	17.22	23.33	45.56	2	21	51	3	1	3.53	PS					19.37	451.90
L0401	0.06	45	31S	59.75	15.00	22.36	15.00	5.53	7.50	16.51	0.00	0.00	0.00	22.50	37.50	1	20	0	3	1	3.74	PS					0.06	1.35
O1236	3.52	95	31	17.59	5.50	8.36	6.00	5.84	7.50	49.36	12.90	5.98	18.00	13.50	37.00	7	11	57	3	1	2.95	PS					3.52	47.52
O1237	9.54	50	31	16.19	4.50	8.36	6.00	10.79	17.50	5.76	1.59	0.30	1.50	23.50	29.50	1	28	9	3	1	3.46	PS					9.54	224.19
O1337	0.53	50	31P	52.68	15.50	43.67	30.50	14.73	19.50	21.75	6.53	2.95	9.50	50.00	75.00	1	22	14	3	1	4.08	PS					0.53	26.50
O1339	8.64	50	31	25.03	6.67	10.56	7.22	9.15	14.44	6.91	0.72	1.56	3.33	21.67	31.67	1	36	10	3	1	3.41	PS					8.64	187.23
pp104*	6.40	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.60	NH					6.40	0.00
pp688*	0.86	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.60	NH					0.86	0.00
	253.98																						**90.79**	**3,418.24**	**19.84**	**1,080.91**	**142.91**	**3,373.43**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
L0104	2009	69741	Training Area Infrastructure-19D/K OSUT					2.48	104.71
L0118	2009	69741	Training Area Infrastructure-19D/K OSUT					6.56	95.12
L0120	2009	69741	Training Area Infrastructure-19D/K OSUT					1.16	31.32
L0201	2009	69741	Training Area Infrastructure-19D/K OSUT					3.04	91.20
L0201	2009	65554	Construct Training Area Roads, Paved					0.34	10.20
L0203	2009	69741	Training Area Infrastructure-19D/K OSUT					4.72	182.05
L0203	2009	65554	Construct Training Area Roads, Paved					0.99	38.18
L0204	2009	69741	Training Area Infrastructure-19D/K OSUT	25.29	952.17				
L0204	2009	65554	Construct Training Area Roads, Paved	1.01	38.03				
L0205	2009	69741	Training Area Infrastructure-19D/K OSUT					1.20	23.08
L0208	2009	69741	Training Area Infrastructure-19D/K OSUT					0.47	6.27
L0305	2009	69741	Training Area Infrastructure-19D/K OSUT					5.16	144.48
L0310	2009	69741	Training Area Infrastructure-19D/K OSUT			4.37	226.72		
L0315	2009	69741	Training Area Infrastructure-19D/K OSUT					7.17	167.28
L0401	2009	69741	Training Area Infrastructure-19D/K OSUT					0.06	1.35
O1337	2009	69741	Training Area Infrastructure-19D/K OSUT					0.14	7.00
O1337	2009	65554	Construct Training Area Roads, Paved					0.34	17.00
O1339	2009	69741	Training Area Infrastructure-19D/K OSUT					1.46	31.64
O1339	2009	65554	Construct Training Area Roads, Paved					0.45	9.75
pp104*	2009	69741	Training Area Infrastructure-19D/K OSUT					2.14	0.00
pp688*	2009	69741	Training Area Infrastructure-19D/K OSUT					0.33	0.00
pp688*	2009	65554	Construct Training Area Roads, Paved					0.28	0.00
			2009 SUB-TOTAL	**26.30**	**990.20**	**4.37**	**226.72**	**38.49**	**960.63**
L0201	2010	65557	Repair Existing Training Area Roads, Phase 1					0.16	4.80
O1237	2010	65557	Repair Existing Training Area Roads, Phase 1					6.84	160.74
O1337	2010	65557	Repair Existing Training Area Roads, Phase 1					0.05	2.50
O1339	2010	65557	Repair Existing Training Area Roads, Phase 1					2.50	54.18
			2010 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**9.55**	**222.22**
			TOTAL REMOVALS	**26.30**	**990.20**	**4.37**	**226.72**	**48.04**	**1,182.85**

POST-PROJECT	**2009 SUB-TOTAL**		**non-contiguous habitat**		**2009 TOTAL**		**2010 SUB-TOTAL**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**64.49**	**2,428.04**	**0.00**	**0.00**	**64.49**	**2,428.04**	**64.49**	**2,428.04**
Potentially Suitable Habitat	**15.47**	**854.19**	**10.61**	**550.44**	**4.86**	**303.75**	**4.86**	**303.75**
Future Potential Habitat	**104.42**	**2,412.80**	**53.24**	**1,295.22**	**51.18**	**1,117.58**	**41.63**	**895.36**
TOTAL	**184.38**	**5,695.03**	**63.85**	**1,845.66**	**120.53**	**3,849.37**	**110.98**	**3,627.15**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf pine plantation
22P = Slash Pine Plantation
31 = Loblolly Pine
31P = Loblolly pine plantation
31S = Loblolly Pine Scrub Oak
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)

* Note: No pine data collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Stands L0104, L0118, L0120, l0208, L0305, L0310, L0315, pp104 and pp688 will be non-contiguous as a result of FY 2009 project impacts and cannot be counted towards the available foraging habitat for the partition.

Appendix Table H-159. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **L02-02R**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
L0104	13.75	61	31	48.50	12.78	33.02	22.22	13.87	20.00	15.08	0.65	1.97	2.78	42.22	57.78	1	34	5	3	1	1	13.75	580.53				
L0118	19.27	53	22P	167.71	48.00	22.20	14.00	0.42	0.50	3.61	2.55	0.86	3.00	14.50	65.50	1	19	13	3	1	0					19.27	279.42
L0120	2.09	40	31	53.26	16.00	24.71	17.00	6.89	10.00	21.52	5.71	2.35	7.00	27.00	50.00	2	17	20	3	1	0					2.09	56.43
L0201	9.19	87	31	59.50	20.00	18.22	13.33	6.47	16.67	7.86	0.00	1.34	2.22	30.00	52.22	8	28	5	3	1	0			9.19	275.70		
L0202	4.86	87	21	34.08	7.50	17.25	12.50	29.31	50.00	0.00	0.00	2.09	2.50	62.50	72.50	1	15	4	3	1	1	4.86	303.75				
L0203	7.38	87	31	45.22	11.43	27.69	20.00	13.87	18.57	0.00	0.00	0.00	0.00	38.57	50.00	1	34	0	3	1	1	7.38	284.65				
L0204	90.79	87	21	7.01	2.35	9.13	7.06	19.00	30.59	4.06	1.74	2.31	5.88	37.65	45.88	1	21	13	3	1	1	90.79	3,418.24				
L0205	25.06	87	31	31.93	10.00	12.40	8.46	6.35	10.77	15.21	5.68	0.72	4.62	19.23	33.85	8	18	25	3	1	0					25.06	481.90
L0208	0.47	45	13	17.08	6.67	14.08	10.00	3.26	3.33	37.54	4.46	0.00	3.33	13.33	23.33	5	10	20	3	1	0					0.47	6.27
L0305	16.78	44	31	41.20	12.50	22.67	17.50	7.30	10.50	32.32	7.25	2.24	9.50	28.00	50.00	7	17	24	3	1	0					16.78	469.84
L0310	14.98	83	31	7.16	2.50	17.35	13.13	20.94	38.75	7.98	6.70	1.66	6.88	51.88	61.25	8	26	18	3	1	0			14.98	777.16		
L0312	0.44	61	42**	16.14	4.50	7.35	5.50	9.49	20.00	19.77	10.59	5.89	18.00	25.50	48.00	7	22	49	3	1	0					0.00	0.00
L0315	19.37	83	13	16.01	5.00	5.42	3.89	10.99	19.44	9.97	9.00	8.39	17.22	23.33	45.56	2	21	51	3	1	0					19.37	451.90
L0401	0.06	45	31S	59.75	15.00	22.36	15.00	5.53	7.50	16.51	0.00	0.00	0.00	22.50	37.50	1	20	0	3	1	0					0.06	1.35
O1236	3.52	95	31	17.59	5.50	8.36	6.00	5.84	7.50	49.36	12.90	5.98	18.00	13.50	37.00	7	11	57	3	1	0					3.52	47.52
O1237	9.54	50	31	16.19	4.50	8.36	6.00	10.79	17.50	5.76	1.59	0.30	1.50	23.50	29.50	1	28	9	3	1	0					9.54	224.19
O1337	0.53	50	31P	52.68	15.50	43.67	30.50	14.73	19.50	21.75	6.53	2.95	9.50	50.00	75.00	1	22	14	3	1	1	0.53	26.50				
O1339	8.64	50	31	25.03	6.67	10.56	7.22	9.15	14.44	6.91	0.72	1.56	3.33	21.67	31.67	1	36	10	3	1	0					8.64	187.23
pp104*	6.40	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					6.40	0.00
pp688*	0.86	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.86	0.00
	253.98																					**117.31**	**4,613.67**	**24.17**	**1,052.86**	**112.06**	**2,206.05**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
L0104	2009	65554	Construct Training Area Roads, Paved	0.46	19.42				
L0118	2009	65554	Construct Training Area Roads, Paved					0.31	4.50
L0120	2009	65554	Construct Training Area Roads, Paved					0.19	5.13
L0201	2009	65554	Construct Training Area Roads, Paved			2.12	63.60		
L0203	2009	65554	Construct Training Area Roads, Paved	3.34	128.82				
L0204	2009	65554	Construct Training Area Roads, Paved	9.49	357.30				
O1337	2009	65554	Construct Training Area Roads, Paved	0.39	19.50				
O1339	2009	65554	Construct Training Area Roads, Paved					0.53	11.49
pp688*	2009	65554	Construct Training Area Roads, Paved					0.50	0.00
			2009 SUB-TOTAL	**13.68**	**525.04**	**2.12**	**63.60**	**1.53**	**21.12**
L0104	2010	65557	Repair Existing Training Area Roads, Phase 1	0.35	14.78				
L0201	2010	65557	Repair Existing Training Area Roads, Phase 1			1.00	30.00		
L0305	2010	65557	Repair Existing Training Area Roads, Phase 1					3.05	85.40
O1237	2010	65557	Repair Existing Training Area Roads, Phase 1					6.84	160.74
O1337	2010	65557	Repair Existing Training Area Roads, Phase 1	0.16	8.00				
O1339	2010	65557	Repair Existing Training Area Roads, Phase 1					2.57	55.69
			2010 SUB-TOTAL	**0.51**	**22.78**	**1.00**	**30.00**	**12.46**	**301.83**
			TOTAL REMOVALS	**14.19**	**547.82**	**3.12**	**93.60**	**13.99**	**322.95**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**103.63**	**4,088.63**	**103.12**	**4,065.85**
Potentially Suitable Habitat	**22.05**	**989.26**	**21.05**	**959.26**
Future Potential Habitat	**110.53**	**2,184.93**	**98.07**	**1,883.10**
TOTAL	**236.21**	**7,262.82**	**222.24**	**6,908.21**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf pine plantation
22P = Slash Pine Plantation
31 = Loblolly Pine
31P = Loblolly pine plantation
31S = Loblolly Pine Scrub Oak
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)

* Note: No pine data collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-160. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **L02-02R**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
L0104	13.75	61	31	48.50	12.78	33.02	22.22	13.87	20.00	15.08	0.65	1.97	2.78	42.22	57.78	1	34	5	3	1	3.65	PS					13.75	580.53
L0118	19.27	53	22P	167.71	48.00	22.20	14.00	0.42	0.50	3.61	2.55	0.86	3.00	14.50	65.50	1	19	13	3	1	2.57	PS					19.27	279.42
L0120	2.09	40	31	53.26	16.00	24.71	17.00	6.89	10.00	21.52	5.71	2.35	7.00	27.00	50.00	2	17	20	3	1	2.88	PS					2.09	56.43
L0201	9.19	87	31	59.50	20.00	18.22	13.33	6.47	16.67	7.86	0.00	1.34	2.22	30.00	52.22	8	28	5	3	1	3.19	PS					9.19	275.70
L0202	4.86	87	21	34.08	7.50	17.25	12.50	29.31	50.00	0.00	0.00	2.09	2.50	62.50	72.50	1	15	4	3	1	4.19	PS			4.86	303.75		
L0203	7.38	87	31	45.22	11.43	27.69	20.00	13.87	18.57	0.00	0.00	0.00	0.00	38.57	50.00	1	34	0	3	1	4.01	PS					7.38	284.65
L0204	90.79	87	21	7.01	2.35	9.13	7.06	19.00	30.59	4.06	1.74	2.31	5.88	37.65	45.88	1	21	13	3	1	4.28	CS	90.79	3,418.24				
L0205	25.06	87	31	31.93	10.00	12.40	8.46	6.35	10.77	15.21	5.68	0.72	4.62	19.23	33.85	8	18	25	3	1	2.90	PS					25.06	481.90
L0208	0.47	45	13	17.08	6.67	14.08	10.00	3.26	3.33	37.54	4.46	0.00	3.33	13.33	23.33	5	10	20	3	1	2.36	PS					0.47	6.27
L0305	16.78	44	31	41.20	12.50	22.67	17.50	7.30	10.50	32.32	7.25	2.24	9.50	28.00	50.00	7	17	24	3	1	2.70	PS					16.78	469.84
L0310	14.98	83	31	7.16	2.50	17.35	13.13	20.94	38.75	7.98	6.70	1.66	6.88	51.88	61.25	8	26	18	3	1	2.70	PS			14.98	777.16		
L0312	0.44	61	42**	16.14	4.50	7.35	5.50	9.49	20.00	19.77	10.59	5.89	18.00	25.50	48.00	7	22	49	3	1	3.99	PS					0.00	0.00
L0315	19.37	83	13	16.01	5.00	5.42	3.89	10.99	19.44	9.97	9.00	8.39	17.22	23.33	45.56	2	21	51	3	1	3.53	PS					19.37	451.90
L0401	0.06	45	31S	59.75	15.00	22.36	15.00	5.53	7.50	16.51	0.00	0.00	0.00	22.50	37.50	1	20	0	3	1	3.74	PS					0.06	1.35
O1236	3.52	95	31	17.59	5.50	8.36	6.00	5.84	7.50	49.36	12.90	5.98	18.00	13.50	37.00	7	11	57	3	1	2.95	PS					3.52	47.52
O1237	9.54	50	31	16.19	4.50	8.36	6.00	10.79	17.50	5.76	1.59	0.30	1.50	23.50	29.50	1	28	9	3	1	3.46	PS					9.54	224.19
O1337	0.53	50	31P	52.68	15.50	43.67	30.50	14.73	19.50	21.75	6.53	2.95	9.50	50.00	75.00	1	22	14	3	1	4.08	PS					0.53	26.50
O1339	8.64	50	31	25.03	6.67	10.56	7.22	9.15	14.44	6.91	0.72	1.56	3.33	21.67	31.67	1	36	10	3	1	3.41	PS					8.64	187.23
pp104*	6.40	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.60	NH					6.40	0.00
pp688*	0.86	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.60	NH					0.86	0.00
	253.98																						**90.79**	**3,418.24**	**19.84**	**1,080.91**	**142.91**	**3,373.43**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
L0104	2009	65554	Construct Training Area Roads, Paved					0.46	19.42
L0118	2009	65554	Construct Training Area Roads, Paved					0.31	4.50
L0120	2009	65554	Construct Training Area Roads, Paved					0.19	5.13
L0201	2009	65554	Construct Training Area Roads, Paved					2.12	63.60
L0203	2009	65554	Construct Training Area Roads, Paved					3.34	128.82
L0204	2009	65554	Construct Training Area Roads, Paved	9.49	357.30				
O1337	2009	65554	Construct Training Area Roads, Paved					0.39	19.50
O1339	2009	65554	Construct Training Area Roads, Paved					0.53	11.49
pp688*	2009	65554	Construct Training Area Roads, Paved					0.50	0.00
			2009 SUB-TOTAL	**9.49**	**357.30**	**0.00**	**0.00**	**7.84**	**252.46**
L0104	2010	65557	Repair Existing Training Area Roads, Phase 1					0.35	14.78
L0201	2010	65557	Repair Existing Training Area Roads, Phase 1					1.00	30.00
L0305	2010	65557	Repair Existing Training Area Roads, Phase 1					3.05	85.40
O1237	2010	65557	Repair Existing Training Area Roads, Phase 1					6.84	160.74
O1337	2010	65557	Repair Existing Training Area Roads, Phase 1					0.16	8.00
O1339	2010	65557	Repair Existing Training Area Roads, Phase 1					2.57	55.69
			2010 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**13.97**	**354.61**
			TOTAL REMOVALS	**9.49**	**357.30**	**0.00**	**0.00**	**21.81**	**607.07**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**81.30**	**3,060.94**	**81.30**	**3,060.94**
Potentially Suitable Habitat	**19.84**	**1,080.91**	**19.84**	**1,080.91**
Future Potential Habitat	**135.07**	**3,120.97**	**121.10**	**2,766.36**
TOTAL	**236.21**	**7,262.82**	**222.24**	**6,908.21**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf pine plantation
22P = Slash Pine Plantation
31 = Loblolly Pine
31P = Loblolly pine plantation
31S = Loblolly Pine Scrub Oak
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)

* Note: No pine data collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-161. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **L03-01**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
L0303	10.79	84	31	14.82	4.50	12.23	9.00	13.81	21.00	1.77	2.02	1.78	3.50	30.00	38.00	1	40	13	3	1	1	10.79	323.70				
L0305	13.39	44	31	41.20	12.50	22.67	17.50	7.30	10.50	32.32	7.25	2.24	9.50	28.00	50.00	7	17	24	3	1	0					13.39	374.92
L0307	27.26	84	31U	0.00	0.00	0.00	0.00	23.94	54.00	0.00	0.00	1.42	4.00	54.00	58.00	1	39	6	3	1	1	27.26	1,472.04				
L0310	4.59	83	31	7.16	2.50	17.35	13.13	20.94	38.75	7.98	6.70	1.66	6.88	51.88	61.25	8	26	18	3	1	0			4.59	238.13		
L0312	55.18	61	42**	16.14	4.50	7.35	5.50	9.49	20.00	19.77	10.59	5.89	18.00	25.50	48.00	7	22	49	3	1	0					0.00	0.00
L0312	0.15	61	42U**	16.14	4.50	7.35	5.50	9.49	20.00	19.77	10.59	5.89	18.00	25.50	48.00	7	22	49	3	1	0					0.00	0.00
O1233	20.21	73	21	9.48	3.00	11.64	8.50	8.63	12.50	10.66	4.06	0.88	4.00	21.00	28.00	6	27	20	3	1	0					20.21	424.41
O1236	1.49	95	31	17.59	5.50	8.36	6.00	5.84	7.50	49.36	12.90	5.98	18.00	13.50	37.00	7	11	57	3	1	0					1.49	20.12
O1237	13.65	50	31	16.19	4.50	8.36	6.00	10.79	17.50	5.76	1.59	0.30	1.50	23.50	29.50	1	28	9	3	1	0					13.65	320.78
O1238	3.54	95	31	47.23	10.00	37.04	28.33	14.80	20.00	0.00	0.00	3.78	6.67	48.33	65.00	3	25	7	3	1	1	3.54	171.09				
O1241	4.31	95	31	76.43	17.50	39.44	27.50	7.32	10.00	22.52	12.70	2.44	10.00	37.50	65.00	7	20	24	3	1	0			4.31	161.63		
pp103*	0.03	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.03	0.00
pp236*	5.24	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.24	0.00
pp362*	2.09	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.09	0.00
pp622*	1.30	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.30	0.00
	163.22																					**41.59**	**1,966.83**	**8.90**	**399.76**	**57.40**	**1,140.23**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
L0303	2009	69741	Training Area Infrastructure-19D/K OSUT	4.46	133.80				
L0305	2009	69741	Training Area Infrastructure-19D/K OSUT					4.16	116.48
L0307	2009	69741	Training Area Infrastructure-19D/K OSUT	7.24	390.96				
L0310	2009	69741	Training Area Infrastructure-19D/K OSUT			1.75	90.79		
O1237	2009	69741	Training Area Infrastructure-19D/K OSUT					1.07	25.15
O1241	2009	69741	Training Area Infrastructure-19D/K OSUT			2.02	75.75		
pp103*	2009	69741	Training Area Infrastructure-19D/K OSUT					0.03	0.00
pp236*	2009	69741	Training Area Infrastructure-19D/K OSUT					1.47	0.00
pp622*	2009	69741	Training Area Infrastructure-19D/K OSUT					1.30	0.00
			2009 SUB-TOTAL	**11.70**	**524.76**	**3.77**	**166.54**	**8.03**	**141.63**
L0303	2010	65557	Repair Existing Training Area Roads, Phase 1	2.35	70.50				
O1237	2010	65557	Repair Existing Training Area Roads, Phase 1					7.67	180.25
O1238	2010	65557	Repair Existing Training Area Roads, Phase 1	0.29	14.02				
			2010 SUB-TOTAL	**2.64**	**84.52**	**0.00**	**0.00**	**7.67**	**180.25**
			TOTAL REMOVALS	**14.34**	**609.28**	**3.77**	**166.54**	**15.70**	**321.88**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
31U = Loblolly Pine Underplanted
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)
42U** = Upland Hardwood-Yellow Pine Underplanted (managed for hardwoods)

* Note: No pine data was collected for pine plantation less than 30 years old.

POST-PROJECT	2009 TOTAL Acres	2009 TOTAL BA	2010 TOTAL Acres	2010 TOTAL BA
Suitable Habitat	**29.89**	**1,442.07**	**27.25**	**1,357.55**
Potentially Suitable Habitat	**5.13**	**233.22**	**5.13**	**233.22**
Future Potential Habitat	**49.37**	**998.60**	**41.70**	**818.35**
TOTAL	**84.39**	**2,673.89**	**74.08**	**2,409.12**

Appendix Table H-162. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **L03-01**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
L0303	10.79	84	31	14.82	4.50	12.23	9.00	13.81	21.00	1.77	2.02	1.78	3.50	30.00	38.00	1	40	13	3	1	4.53	PS					10.79	323.70
L0305	13.39	44	31	41.20	12.50	22.67	17.50	7.30	10.50	32.32	7.25	2.24	9.50	28.00	50.00	7	17	24	3	1	2.82	PS					13.39	374.92
L0307	27.26	84	31U	0.00	0.00	0.00	0.00	23.94	54.00	0.00	0.00	1.42	4.00	54.00	58.00	1	39	6	3	1	4.75	CS	27.26	1,472.04				
L0310	4.59	83	31	7.16	2.50	17.35	13.13	20.94	38.75	7.98	6.70	1.66	6.88	51.88	61.25	8	26	18	3	1	4.18	PS			4.59	238.13		
L0312	55.18	61	42**	16.14	4.50	7.35	5.50	9.49	20.00	19.77	10.59	5.89	18.00	25.50	48.00	7	22	49	3	1	3.60	PS					0.00	0.00
L0312	0.15	61	42U**	16.14	4.50	7.35	5.50	9.49	20.00	19.77	10.59	5.89	18.00	25.50	48.00	7	22	49	3	1	3.60	PS					0.00	0.00
O1233	20.21	73	21	9.48	3.00	11.64	8.50	8.63	12.50	10.66	4.06	0.88	4.00	21.00	28.00	6	27	20	3	1	3.41	PS					20.21	424.41
O1236	1.49	95	31	17.59	5.50	8.36	6.00	5.84	7.50	49.36	12.90	5.98	18.00	13.50	37.00	7	11	57	3	1	2.87	PS					1.49	20.12
O1237	13.65	50	31	16.19	4.50	8.36	6.00	10.79	17.50	5.76	1.59	0.30	1.50	23.50	29.50	1	28	9	3	1	3.91	PS					13.65	320.78
O1238	3.54	95	31	47.23	10.00	37.04	28.33	14.80	20.00	0.00	0.00	3.78	6.67	48.33	65.00	3	25	7	3	1	3.79	PS					3.54	171.09
O1241	4.31	95	31	76.43	17.50	39.44	27.50	7.32	10.00	22.52	12.70	2.44	10.00	37.50	65.00	7	20	24	3	1	3.23	PS					4.31	161.63
pp103*	0.03	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.03	0.00
pp236*	5.24	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					5.24	0.00
pp362*	2.09	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.09	0.00
pp622*	1.30	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.30	0.00
	163.22																						**27.26**	**1,472.04**	**4.59**	**238.13**	**76.04**	**1,796.65**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
L0303	2009	69741	Training Area Infrastructure-19D/K OSUT					4.46	133.80
L0305	2009	69741	Training Area Infrastructure-19D/K OSUT					4.16	116.48
L0307	2009	69741	Training Area Infrastructure-19D/K OSUT	7.24	390.96				
L0310	2009	69741	Training Area Infrastructure-19D/K OSUT			1.75	90.79		
O1237	2009	69741	Training Area Infrastructure-19D/K OSUT					1.07	25.15
O1241	2009	69741	Training Area Infrastructure-19D/K OSUT					2.02	75.75
pp103*	2009	69741	Training Area Infrastructure-19D/K OSUT					0.03	0.00
pp236*	2009	69741	Training Area Infrastructure-19D/K OSUT					1.47	0.00
pp622*	2009	69741	Training Area Infrastructure-19D/K OSUT					1.30	0.00
			2009 SUB-TOTAL	**7.24**	**390.96**	**1.75**	**90.79**	**14.51**	**351.18**
L0303	2010	65557	Repair Existing Training Area Roads, Phase 1					2.35	70.50
O1237	2010	65557	Repair Existing Training Area Roads, Phase 1					7.67	180.25
O1238	2010	65557	Repair Existing Training Area Roads, Phase 1					0.29	14.02
			2010 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**10.31**	**264.77**
			TOTAL REMOVALS	**7.24**	**390.96**	**1.75**	**90.79**	**24.82**	**615.95**

POST-PROJECT	**2009 TOTAL**		**2010 TOTAL**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**20.02**	**1,081.08**	**20.02**	**1,081.08**
Potentially Suitable Habitat	**2.84**	**147.34**	**2.84**	**147.34**
Future Potential Habitat	**61.53**	**1,445.47**	**51.22**	**1,180.70**
TOTAL	**84.39**	**2,673.89**	**74.08**	**2,409.12**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
31U = Loblolly Pine Underplanted
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)
42U** = Upland Hardwood-Yellow Pine Underplanted (managed for hardwoods)

* Note: No pine data was collected for pine plantation less than 30 years old.

Appendix Table H-163. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **L03-01**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
L0303	10.79	84	31	14.82	4.50	12.23	9.00	13.81	21.00	1.77	2.02	1.78	3.50	30.00	38.00	1	40	13	3	1	1	10.79	323.70				
L0305	13.39	44	31	41.20	12.50	22.67	17.50	7.30	10.50	32.32	7.25	2.24	9.50	28.00	50.00	7	17	24	3	1	0					13.39	374.92
L0307	27.26	84	31U	0.00	0.00	0.00	0.00	23.94	54.00	0.00	0.00	1.42	4.00	54.00	58.00	1	39	6	3	1	1	27.26	1,472.04				
L0310	4.59	83	31	7.16	2.50	17.35	13.13	20.94	38.75	7.98	6.70	1.66	6.88	51.88	61.25	8	26	18	3	1	0			4.59	238.13		
L0312	55.18	61	42**	16.14	4.50	7.35	5.50	9.49	20.00	19.77	10.59	5.89	18.00	25.50	48.00	7	22	49	3	1	0					0.00	0.00
L0312	0.15	61	42U**	16.14	4.50	7.35	5.50	9.49	20.00	19.77	10.59	5.89	18.00	25.50	48.00	7	22	49	3	1	0					0.00	0.00
O1233	20.21	73	21	9.48	3.00	11.64	8.50	8.63	12.50	10.66	4.06	0.88	4.00	21.00	28.00	6	27	20	3	1	0					20.21	424.41
O1236	1.49	95	31	17.59	5.50	8.36	6.00	5.84	7.50	49.36	12.90	5.98	18.00	13.50	37.00	7	11	57	3	1	0					1.49	20.12
O1237	13.65	50	31	16.19	4.50	8.36	6.00	10.79	17.50	5.76	1.59	0.30	1.50	23.50	29.50	1	28	9	3	1	0					13.65	320.78
O1238	3.54	95	31	47.23	10.00	37.04	28.33	14.80	20.00	0.00	0.00	3.78	6.67	48.33	65.00	3	25	7	3	1	1	3.54	171.09				
O1241	4.31	95	31	76.43	17.50	39.44	27.50	7.32	10.00	22.52	12.70	2.44	10.00	37.50	65.00	7	20	24	3	1	0			4.31	161.63		
pp103*	0.03	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.03	0.00
pp236*	5.24	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.24	0.00
pp362*	2.09	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.09	0.00
pp622*	1.30	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.30	0.00
	163.22																					**41.59**	**1,966.83**	**8.90**	**399.76**	**57.40**	**1,140.23**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
L0303	2010	65557	Repair Existing Training Area Roads, Phase 1	2.35	70.50				
O1237	2010	65557	Repair Existing Training Area Roads, Phase 1					8.74	205.39
O1238	2010	65557	Repair Existing Training Area Roads, Phase 1	0.29	14.02				
O1241	2010	65557	Repair Existing Training Area Roads, Phase 1			2.02	75.75		
			TOTAL REMOVALS	**2.64**	**84.52**	**2.02**	**75.75**	**8.74**	**205.39**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**38.95**	**1,882.31**
Potentially Suitable Habitat	**6.88**	**324.01**
Future Potential Habitat	**48.66**	**934.84**
TOTAL	**94.49**	**3,141.16**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
31U = Loblolly Pine Underplanted
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)
42U** = Upland Hardwood-Yellow Pine Underplanted (managed for hardwoods)

* Note: No pine data was collected for pine plantation less than 30 years old.

Appendix Table H-164. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **L03-01**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
L0303	10.79	84	31	14.82	4.50	12.23	9.00	13.81	21.00	1.77	2.02	1.78	3.50	30.00	38.00	1	40	13	3	1	4.53	PS					10.79	323.70
L0305	13.39	44	31	41.20	12.50	22.67	17.50	7.30	10.50	32.32	7.25	2.24	9.50	28.00	50.00	7	17	24	3	1	2.82	PS					13.39	374.92
L0307	27.26	84	31U	0.00	0.00	0.00	0.00	23.94	54.00	0.00	0.00	1.42	4.00	54.00	58.00	1	39	6	3	1	4.75	CS	27.26	1,472.04				
L0310	4.59	83	31	7.16	2.50	17.35	13.13	20.94	38.75	7.98	6.70	1.66	6.88	51.88	61.25	8	26	18	3	1	4.18	PS			4.59	238.13		
L0312	55.18	61	42**	16.14	4.50	7.35	5.50	9.49	20.00	19.77	10.59	5.89	18.00	25.50	48.00	7	22	49	3	1	3.60	PS					0.00	0.00
L0312	0.15	61	42U**	16.14	4.50	7.35	5.50	9.49	20.00	19.77	10.59	5.89	18.00	25.50	48.00	7	22	49	3	1	3.60	PS					0.00	0.00
O1233	20.21	73	21	9.48	3.00	11.64	8.50	8.63	12.50	10.66	4.06	0.88	4.00	21.00	28.00	6	27	20	3	1	3.41	PS					20.21	424.41
O1236	1.49	95	31	17.59	5.50	8.36	6.00	5.84	7.50	49.36	12.90	5.98	18.00	13.50	37.00	7	11	57	3	1	2.87	PS					1.49	20.12
O1237	13.65	50	31	16.19	4.50	8.36	6.00	10.79	17.50	5.76	1.59	0.30	1.50	23.50	29.50	1	28	9	3	1	3.91	PS					13.65	320.78
O1238	3.54	95	31	47.23	10.00	37.04	28.33	14.80	20.00	0.00	0.00	3.78	6.67	48.33	65.00	3	25	7	3	1	3.79	PS					3.54	171.09
O1241	4.31	95	31	76.43	17.50	39.44	27.50	7.32	10.00	22.52	12.70	2.44	10.00	37.50	65.00	7	20	24	3	1	3.23	PS					4.31	161.63
pp103*	0.03	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.03	0.00
pp236*	5.24	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					5.24	0.00
pp362*	2.09	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.09	0.00
pp622*	1.30	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.30	0.00
	163.22																						**27.26**	**1,472.04**	**4.59**	**238.13**	**76.04**	**1,796.65**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
L0303	2010	65557	Repair Existing Training Area Roads, Phase 1					2.35	70.50
O1237	2010	65557	Repair Existing Training Area Roads, Phase 1					8.74	205.39
O1238	2010	65557	Repair Existing Training Area Roads, Phase 1					0.29	14.02
O1241	2010	65557	Repair Existing Training Area Roads, Phase 1					2.02	75.75
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**13.40**	**365.66**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**27.26**	**1,472.04**
Potentially Suitable Habitat	**4.59**	**238.13**
Future Potential Habitat	**62.64**	**1,430.99**
TOTAL	**94.49**	**3,141.16**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
31U = Loblolly Pine Underplanted
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)
42U** = Upland Hardwood-Yellow Pine Underplanted (managed for hardwoods)

* Note: No pine data was collected for pine plantation less than 30 years old.

Appendix Table H-165. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **M01-01 Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0101	28.46	59	21	40.52	11.50	7.45	5.50	13.97	21.00	21.71	8.16	2.69	10.50	26.50	48.50	1	23	34	3	2	0					28.46	754.19
M0102	42.78	63	21	32.91	9.50	18.34	13.50	19.17	31.50	19.44	3.15	2.86	5.50	45.00	60.00	2	13	14	3	2	1	42.78	1,925.10				
M0103	2.44	63	31	46.03	13.50	24.64	17.50	16.79	28.00	14.35	9.33	4.40	12.00	45.50	71.00	1	19	25	3	2	1	2.44	111.02				
M0106	2.51	86	13	31.40	9.50	15.56	10.50	9.79	15.50	30.94	14.12	5.15	18.50	26.00	54.00	1	11	43	3	2	0					0.00	0.00
M0107	8.01	61	31	60.21	16.19	19.19	13.33	8.87	12.86	15.92	0.76	0.82	1.90	26.19	44.29	2	28	5	3	2	0					0.00	0.00
M0109	3.51	61	21	29.84	9.00	21.62	16.00	18.72	30.50	2.86	0.00	0.00	0.00	46.50	55.50	2	32	0	3	2	1	0.00	0.00				
M0637	2.55	61	21	29.26	7.50	11.40	8.50	10.74	17.50	13.95	3.14	2.64	6.00	26.00	39.50	2	23	21	0	0	0					2.55	66.30
M0657	0.15	40	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
O1417	3.09	66	31	29.64	8.00	17.15	12.50	12.89	19.00	14.72	6.46	3.00	9.50	31.50	49.00	2	20	24	3	1	1	3.09	97.34				
O1423	8.59	87	42**	11.70	3.50	12.76	9.50	9.76	14.50	26.77	19.26	3.01	18.00	24.00	45.50	7	24	50	3	1	0					8.59	206.16
O1430	1.79	19	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
O1431	11.19	78	21	62.86	16.50	18.56	12.50	9.28	14.00	7.33	1.12	2.78	5.50	26.50	48.50	6	15	12	3	1	0					11.19	296.54
pp540*	0.30	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.30	0.00
pp962*	14.05	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					14.05	0.00
	129.42																					**48.31**	**2,133.46**	**0.00**	**0.00**	**65.14**	**1,323.19**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0101	2010	65557	Repair Existing Training Area Roads, Phase 1					1.06	28.09
M0102	2010	65557	Repair Existing Training Area Roads, Phase 1	1.28	57.60				
M0103	2010	65557	Repair Existing Training Area Roads, Phase 1	0.38	17.29				
M0637	2010	65557	Repair Existing Training Area Roads, Phase 1					0.01	0.26
O1417	2010	65557	Repair Existing Training Area Roads, Phase 1	0.03	0.95				
O1431	2010	65557	Repair Existing Training Area Roads, Phase 1					0.87	23.06
pp540*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.01	0.00
pp962*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.15	0.00
			TOTAL REMOVALS	**1.69**	**75.84**	**0.00**	**0.00**	**2.10**	**51.41**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**46.62**	**2,057.62**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**63.04**	**1,271.78**
TOTAL	**109.66**	**3,329.40**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine
NM = not managed
ND = no data provided

* **Note**: No pine data was collected for pine plantation stand less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-166. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **M01-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0101	28.46	59	21	40.52	11.50	7.45	5.50	13.97	21.00	21.71	8.16	2.69	10.50	26.50	48.50	1	23	34	3	2	4.03	PS					28.46	754.19
M0102	42.78	63	21	32.91	9.50	18.34	13.50	19.17	31.50	19.44	3.15	2.86	5.50	45.00	60.00	2	13	14	3	2	4.58	PS			42.78	1,925.10		
M0103	2.44	63	31	46.03	13.50	24.64	17.50	16.79	28.00	14.35	9.33	4.40	12.00	45.50	71.00	1	19	25	3	2	4.28	PS					2.44	111.02
M0106	2.51	86	13	31.40	9.50	15.56	10.50	9.79	15.50	30.94	14.12	5.15	18.50	26.00	54.00	1	11	43	3	2	3.82	PS					0.00	0.00
M0107	8.01	61	31	60.21	16.19	19.19	13.33	8.87	12.86	15.92	0.76	0.82	1.90	26.19	44.29	2	28	5	3	2	3.81	PS					0.00	0.00
M0109	3.51	61	21	29.84	9.00	21.62	16.00	18.72	30.50	2.86	0.00	0.00	0.00	46.50	55.50	2	32	0	3	2	4.87	PS			0.00	0.00		
M0637	2.55	61	21	29.26	7.50	11.40	8.50	10.74	17.50	13.95	3.14	2.64	6.00	26.00	39.50	2	23	21	0	0	3.75	PS					2.55	66.30
M0657	0.15	40	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	2.19	PS					0.00	0.00
O1417	3.09	66	31	29.64	8.00	17.15	12.50	12.89	19.00	14.72	6.46	3.00	9.50	31.50	49.00	2	20	24	3	1	3.89	PS					3.09	97.34
O1423	8.59	87	42**	11.70	3.50	12.76	9.50	9.76	14.50	26.77	19.26	3.01	18.00	24.00	45.50	7	24	50	3	1	3.32	PS					8.59	206.16
O1430	1.79	19	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
O1431	11.19	78	21	62.86	16.50	18.56	12.50	9.28	14.00	7.33	1.12	2.78	5.50	26.50	48.50	6	15	12	3	1	3.42	PS					11.19	296.54
pp540*	0.30	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.30	0.00
pp962*	14.05	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					14.05	0.00
	129.42																						**0.00**	**0.00**	**42.78**	**1,925.10**	**70.67**	**1,531.55**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0101	2010	65557	Repair Existing Training Area Roads, Phase 1					1.06	28.09
M0102	2010	65557	Repair Existing Training Area Roads, Phase 1			1.28	57.60		
M0103	2010	65557	Repair Existing Training Area Roads, Phase 1					0.38	17.29
M0637	2010	65557	Repair Existing Training Area Roads, Phase 1					0.01	0.26
O1417	2010	65557	Repair Existing Training Area Roads, Phase 1					0.03	0.95
O1431	2010	65557	Repair Existing Training Area Roads, Phase 1					0.87	23.06
pp540*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.01	0.00
pp962*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.15	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**1.28**	**57.60**	**2.51**	**69.65**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**41.50**	**1,867.50**
Future Potential Habitat	**68.16**	**1,461.90**
TOTAL	**109.66**	**3,329.40**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine
NM = not managed
ND = no data provided

* **Note**: No pine data was collected for pine plantation stand less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-167. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **M08-01 Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0715	5.88	51	31	65.26	18.00	7.86	6.00	13.17	18.00	7.48	0.00	0.00	0.00	24.00	42.00	6	32	0	3	1	0					5.88	141.12
M0716	90.58	55	31	39.68	12.50	20.95	14.00	10.62	15.50	8.93	4.78	1.48	5.50	29.50	47.50	6	26	17	3	1	0					90.58	2,672.11
M0727	26.18	53	13	12.79	3.50	9.02	7.00	8.12	12.50	31.09	13.28	6.77	20.00	19.50	43.00	6	17	54	3	1	0					26.18	510.51
M0812	4.16	54	21	51.35	14.50	30.25	22.00	13.64	19.50	11.88	1.92	1.91	4.00	41.50	60.00	1	18	8	3	2	1	4.16	172.64				
M0813	2.06	46	26	26.36	9.00	25.68	19.00	15.82	22.50	18.18	3.01	1.08	3.50	41.50	54.00	1	37	9	3	2	1	2.06	85.49				
M0820	8.95	85	31	34.78	8.89	18.66	13.33	14.84	22.22	6.13	8.74	3.32	11.11	35.56	55.56	2	19	26	3	2	1	8.95	318.26				
M0821	42.47	57	31	37.12	12.50	28.36	20.00	18.07	29.00	0.00	8.77	2.53	9.50	49.00	71.00	2	21	20	3	2	1	42.47	2,081.03				
M0825	25.51	48	26	27.09	8.00	32.12	24.00	15.55	20.50	24.91	4.32	3.44	8.00	44.50	60.50	1	25	14	3	2	1	25.51	1,135.20				
M0831	31.81	46	31	61.35	16.32	33.31	22.11	16.94	23.68	19.96	8.62	1.67	8.95	45.79	71.05	1	6	17	3	2	1	31.81	1,456.58				
M0832	19.96	85	31	3.92	1.50	6.40	4.50	13.28	33.50	37.67	20.07	4.59	21.00	38.00	60.50	4	12	56	3	2	0			19.96	758.48		
M0841	0.17	56	31	40.14	11.50	19.24	14.00	17.47	31.00	52.16	11.77	3.86	13.50	45.00	70.00	1	16	30	3	2	1	0.17	7.65				
pp492*	8.49	16	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					8.49	0.00
pp699*	2.01	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.01	0.00
pp937*	9.37	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
	277.60																					**115.13**	**5,256.85**	**19.96**	**758.48**	**133.14**	**3,323.74**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0716	2010	65557	Repair Existing Training Area Roads, Phase 1					2.08	61.36
M0727	2010	65557	Repair Existing Training Area Roads, Phase 1					4.04	78.78
M0812	2010	65557	Repair Existing Training Area Roads, Phase 1	0.72	29.88				
M0820	2010	65557	Repair Existing Training Area Roads, Phase 1	3.95	140.46				
M0821	2010	65557	Repair Existing Training Area Roads, Phase 1	1.81	88.69				
M0831	2010	65557	Repair Existing Training Area Roads, Phase 1	5.50	251.85				
M0841	2010	65557	Repair Existing Training Area Roads, Phase 1	0.07	3.15				
pp699*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.18	0.00
			TOTAL REMOVALS	**12.05**	**514.03**	**0.00**	**0.00**	**6.30**	**140.14**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**103.08**	**4,742.82**
Potentially Suitable Habitat	**19.96**	**758.48**
Future Potential Habitat	**126.84**	**3,183.60**
TOTAL	**249.88**	**8,684.90**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stand less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-168. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **M08-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0715	5.88	51	31	65.26	18.00	7.86	6.00	13.17	18.00	7.48	0.00	0.00	0.00	24.00	42.00	6	32	0	3	1	3.83	PS					5.88	141.12
M0716	90.58	55	31	39.68	12.50	20.95	14.00	10.62	15.50	8.93	4.78	1.48	5.50	29.50	47.50	6	26	17	3	1	3.54	PS					90.58	2,672.11
M0727	26.18	53	13	12.79	3.50	9.02	7.00	8.12	12.50	31.09	13.28	6.77	20.00	19.50	43.00	6	17	54	3	1	2.99	PS					26.18	510.51
M0812	4.16	54	21	51.35	14.50	30.25	22.00	13.64	19.50	11.88	1.92	1.91	4.00	41.50	60.00	1	18	8	3	2	4.19	PS					4.16	172.64
M0813	2.06	46	26	26.36	9.00	25.68	19.00	15.82	22.50	18.18	3.01	1.08	3.50	41.50	54.00	1	37	9	3	2	4.44	PS					2.06	85.49
M0820	8.95	85	31	34.78	8.89	18.66	13.33	14.84	22.22	6.13	8.74	3.32	11.11	35.56	55.56	2	19	26	3	2	4.27	PS					8.95	318.26
M0821	42.47	57	31	37.12	12.50	28.36	20.00	18.07	29.00	0.00	8.77	2.53	9.50	49.00	71.00	2	21	20	3	2	4.47	PS					42.47	2,081.03
M0825	25.51	48	26	27.09	8.00	32.12	24.00	15.55	20.50	24.91	4.32	3.44	8.00	44.50	60.50	1	25	14	3	2	4.28	PS					25.51	1,135.20
M0831	31.81	46	31	61.35	16.32	33.31	22.11	16.94	23.68	19.96	8.62	1.67	8.95	45.79	71.05	1	6	17	3	2	3.94	PS					31.81	1,456.58
M0832	19.96	85	31	3.92	1.50	6.40	4.50	13.28	33.50	37.67	20.07	4.59	21.00	38.00	60.50	4	12	56	3	2	4.13	PS					19.96	758.48
M0841	0.17	56	31	40.14	11.50	19.24	14.00	17.47	31.00	52.16	11.77	3.86	13.50	45.00	70.00	1	16	30	3	2	4.14	PS					0.17	7.65
pp492*	8.49	16	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					8.49	0.00
pp699*	2.01	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.01	0.00
pp937*	9.37	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
	277.60																						**0.00**	**0.00**	**0.00**	**0.00**	**268.23**	**9,339.07**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0716	2010	65557	Repair Existing Training Area Roads, Phase 1					2.08	61.36
M0727	2010	65557	Repair Existing Training Area Roads, Phase 1					4.04	78.78
M0812	2010	65557	Repair Existing Training Area Roads, Phase 1					0.72	29.88
M0820	2010	65557	Repair Existing Training Area Roads, Phase 1					3.95	140.46
M0821	2010	65557	Repair Existing Training Area Roads, Phase 1					1.81	88.69
M0831	2010	65557	Repair Existing Training Area Roads, Phase 1					5.50	251.85
M0841	2010	65557	Repair Existing Training Area Roads, Phase 1					0.07	3.15
pp699*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.18	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**18.35**	**654.17**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**249.88**	**8,684.90**
TOTAL	**249.88**	**8,684.90**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stand less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-169. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **M08-02a Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0801	0.26	110	21	38.61	11.05	14.80	11.05	21.92	34.21	1.22	4.79	0.00	3.68	45.26	60.00	1	32	12	3	2	1	0.26	11.77				
M0803	9.57	71	31	75.61	24.50	47.20	34.00	13.59	19.50	8.37	7.98	0.28	6.00	53.50	84.00	1	26	12	3	2	0			9.57	512.00		
M0804	14.74	76	21	2.17	0.50	22.60	16.50	27.43	40.00	6.83	2.15	0.00	1.50	56.50	58.50	1	30	4	3	2	1	14.74	832.81				
M0805	8.08	43	26	28.21	8.89	24.43	17.78	12.62	18.89	11.19	2.21	1.38	3.33	36.67	48.89	1	26	9	3	2	1	8.08	296.29				
M0808	6.10	76	21	11.31	3.75	40.06	28.75	33.96	47.50	0.00	0.00	0.78	1.25	76.25	81.25	1	18	1	3	2	1	6.10	465.13				
M0809	11.08	43	11	3.47	1.50	11.32	7.50	6.43	9.50	25.62	3.75	0.40	3.00	17.00	21.50	1	47	19	3	2	0					11.08	188.36
M0810	0.53	43	22P	170.11	51.25	55.75	36.25	4.01	5.00	9.63	3.61	1.91	5.00	41.25	97.50	1	11	8	3	2	0			0.53	21.86		
M0814	0.95	46	26	75.97	20.00	35.27	22.50	5.64	8.75	2.96	8.54	2.11	10.00	31.25	61.25	1	19	21	3	2	0			0.95	29.69		
M0815	28.80	71	21	47.14	14.21	14.58	10.53	19.03	28.95	28.07	4.65	1.17	4.74	39.47	58.42	1	22	15	3	2	1	28.80	1,136.74				
M0815	2.47	71	21U	47.14	14.21	14.58	10.53	19.03	28.95	28.07	4.65	1.17	4.74	39.47	58.42	1	22	15	3	2	1	2.47	97.49				
M0817	4.13	63	21	56.08	13.75	28.51	20.00	3.25	3.75	16.90	3.66	7.91	12.50	23.75	50.00	1	34	27	3	2	0					4.13	98.09
M0818	0.69	54	31	43.07	11.67	29.20	20.00	16.15	23.33	5.29	2.16	0.00	1.67	43.33	56.67	1	23	5	3	2	1	0.69	29.90				
M0825	20.84	48	26	27.09	8.00	32.12	24.00	15.55	20.50	24.91	4.32	3.44	8.00	44.50	60.50	1	25	14	3	2	1	20.84	927.38				
M0825	15.90	48	26U	27.09	8.00	32.12	24.00	15.55	20.50	24.91	4.32	3.44	8.00	44.50	60.50	1	25	14	3	2	1	15.90	707.55				
M0826	5.17	45	21	111.85	32.00	49.10	33.00	8.18	10.50	20.63	6.10	4.43	10.50	43.50	86.00	1	21	16	3	2	0			5.17	224.90		
M0827	1.03	45	22P	127.64	40.00	50.58	33.50	6.85	7.50	12.18	4.35	2.30	6.00	41.00	87.00	1	5	10	3	2	0			1.03	42.23		
O0220	18.22	73	21	13.10	3.68	26.75	19.47	19.23	27.37	10.86	2.42	0.67	3.16	46.84	53.68	1	19	6	3	1	1	18.22	853.42				
O0223	7.54	73	31	13.02	3.50	12.63	9.00	21.56	34.50	20.50	3.89	2.46	6.00	43.50	53.00	2	21	16	3	1	1	7.54	327.99				
pp492*	2.34	16	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.34	0.00
	158.44																					**123.64**	**5,686.47**	**17.25**	**830.68**	**17.55**	**286.45**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0803	2010	65557	Repair Existing Training Area Roads, Phase 1			0.50	26.75		
M0804	2010	65557	Repair Existing Training Area Roads, Phase 1	2.11	119.22				
M0805	2010	65557	Repair Existing Training Area Roads, Phase 1	1.59	58.31				
O0220	2010	65557	Repair Existing Training Area Roads, Phase 1	4.74	222.02				
O0223	2010	65557	Repair Existing Training Area Roads, Phase 1	0.22	9.57				
			TOTAL REMOVALS	**8.66**	**409.12**	**0.50**	**26.75**	**0.00**	**0.00**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**114.98**	**5,277.35**
Potentially Suitable Habitat	**16.75**	**803.93**
Future Potential Habitat	**17.55**	**286.45**
TOTAL	**149.28**	**6,367.73**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
11 = Longleaf Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21U = Longleaf Pine Underplanted
22P = Slash Pine
26 = Mixed Pine-Longleaf
26U = Mixed Pine-Longleaf Underplanted
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stand less than 30 years old.

Appendix Table H-170. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **M08-02a**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0801	0.26	110	21	38.61	11.05	14.80	11.05	21.92	34.21	1.22	4.79	0.00	3.68	45.26	60.00	1	32	12	3	2	4.77	PS			0.26	11.77		
M0803	9.57	71	31	75.61	24.50	47.20	34.00	13.59	19.50	8.37	7.98	0.28	6.00	53.50	84.00	1	26	12	3	2	4.32	PS					9.57	512.00
M0804	14.74	76	21	2.17	0.50	22.60	16.50	27.43	40.00	6.83	2.15	0.00	1.50	56.50	58.50	1	30	4	3	2	4.90	CS	14.74	832.81				
M0805	8.08	43	26	28.21	8.89	24.43	17.78	12.62	18.89	11.19	2.21	1.38	3.33	36.67	48.89	1	26	9	3	2	4.00	PS					8.08	296.29
M0808	6.10	76	21	11.31	3.75	40.06	28.75	33.96	47.50	0.00	0.00	0.78	1.25	76.25	81.25	1	18	1	3	2	4.70	CS	6.10	465.13				
M0809	11.08	43	11	3.47	1.50	11.32	7.50	6.43	9.50	25.62	3.75	0.40	3.00	17.00	21.50	1	47	19	3	2	3.52	PS					11.08	188.36
M0810	0.53	43	22P	170.11	51.25	55.75	36.25	4.01	5.00	9.63	3.61	1.91	5.00	41.25	97.50	1	11	8	3	2	3.24	PS					0.53	21.86
M0814	0.95	46	26	75.97	20.00	35.27	22.50	5.64	8.75	2.96	8.54	2.11	10.00	31.25	61.25	1	19	21	3	2	3.22	PS					0.95	29.69
M0815	28.80	71	21	47.14	14.21	14.58	10.53	19.03	28.95	28.07	4.65	1.17	4.74	39.47	58.42	1	22	15	3	2	4.61	PS			28.80	1,136.74		
M0815	2.47	71	21U	47.14	14.21	14.58	10.53	19.03	28.95	28.07	4.65	1.17	4.74	39.47	58.42	1	22	15	3	2	4.61	PS			2.47	97.49		
M0817	4.13	63	21	56.08	13.75	28.51	20.00	3.25	3.75	16.90	3.66	7.91	12.50	23.75	50.00	1	34	27	3	2	3.32	PS					4.13	98.09
M0818	0.69	54	31	43.07	11.67	29.20	20.00	16.15	23.33	5.29	2.16	0.00	1.67	43.33	56.67	1	23	5	3	2	4.43	PS					0.69	29.90
M0825	20.84	48	26	27.09	8.00	32.12	24.00	15.55	20.50	24.91	4.32	3.44	8.00	44.50	60.50	1	25	14	3	2	4.28	PS					20.84	927.38
M0825	15.90	48	26U	27.09	8.00	32.12	24.00	15.55	20.50	24.91	4.32	3.44	8.00	44.50	60.50	1	25	14	3	2	4.28	PS					15.90	707.55
M0826	5.17	45	21	111.85	32.00	49.10	33.00	8.18	10.50	20.63	6.10	4.43	10.50	43.50	86.00	1	21	16	3	2	3.57	PS					5.17	224.90
M0827	1.03	45	22P	127.64	40.00	50.58	33.50	6.85	7.50	12.18	4.35	2.30	6.00	41.00	87.00	1	5	10	3	2	3.23	PS					1.03	42.23
O0220	18.22	73	21	13.10	3.68	26.75	19.47	19.23	27.37	10.86	2.42	0.67	3.16	46.84	53.68	1	19	6	3	1	4.55	CS	18.22	853.42				
O0223	7.54	73	31	13.02	3.50	12.63	9.00	21.56	34.50	20.50	3.89	2.46	6.00	43.50	53.00	2	21	16	3	1	4.58	CS	7.54	327.99				
pp492*	2.34	16	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.34	0.00
	158.44																						**46.60**	**2,479.35**	**31.53**	**1,246.00**	**80.31**	**3,078.25**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0803	2010	65557	Repair Existing Training Area Roads, Phase 1					0.50	26.75
M0804	2010	65557	Repair Existing Training Area Roads, Phase 1	2.11	119.22				
M0805	2010	65557	Repair Existing Training Area Roads, Phase 1					1.59	58.31
O0220	2010	65557	Repair Existing Training Area Roads, Phase 1	4.74	222.02				
O0223	2010	65557	Repair Existing Training Area Roads, Phase 1	0.22	9.57				
			TOTAL REMOVALS	**7.07**	**350.81**	**0.00**	**0.00**	**2.09**	**85.06**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**39.53**	**2,128.54**
Potentially Suitable Habitat	**31.53**	**1,246.00**
Future Potential Habitat	**78.22**	**2,993.19**
TOTAL	**149.28**	**6,367.73**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
11 = Longleaf Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21U = Longleaf Pine Underplanted
22P = Slash Pine
26 = Mixed Pine-Longleaf
26U = Mixed Pine-Longleaf Underplanted
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stand less than 30 years old.

Appendix Table H-171. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **M08-02b Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0801	17.82	110	21	38.61	11.05	14.80	11.05	21.92	34.21	1.22	4.79	0.00	3.68	45.26	60.00	1	32	12	3	2	1	17.82	806.53				
M0803	2.31	71	31	75.61	24.50	47.20	34.00	13.59	19.50	8.37	7.98	0.28	6.00	53.50	84.00	1	26	12	3	2	0			2.31	123.59		
M0812	8.63	54	21	51.35	14.50	30.25	22.00	13.64	19.50	11.88	1.92	1.91	4.00	41.50	60.00	1	18	8	3	2	1	8.63	358.15				
M0813	14.93	46	26	26.36	9.00	25.68	19.00	15.82	22.50	18.18	3.01	1.08	3.50	41.50	54.00	1	37	9	3	2	1	14.93	619.60				
M0813	2.53	46	26U	26.36	9.00	25.68	19.00	15.82	22.50	18.18	3.01	1.08	3.50	41.50	54.00	1	37	9	3	2	1	2.53	105.00				
M0814	8.04	46	26	75.97	20.00	35.27	22.50	5.64	8.75	2.96	8.54	2.11	10.00	31.25	61.25	1	19	21	3	2	0			8.04	251.25		
M0815	0.15	71	21	47.14	14.21	14.58	10.53	19.03	28.95	28.07	4.65	1.17	4.74	39.47	58.42	1	22	15	3	2	1	0.15	5.92				
M0825	0.85	48	26	27.09	8.00	32.12	24.00	15.55	20.50	24.91	4.32	3.44	8.00	44.50	60.50	1	25	14	3	2	1	0.85	37.83				
N0138	3.28	77	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					3.28	0.00
N0141	3.48	69	21	2.63	0.50	5.35	4.00	19.26	36.00	10.87	5.89	1.92	6.50	40.00	47.00	1	25	24	3	1	1	3.48	139.20				
O0220	23.64	73	21	13.10	3.68	26.75	19.47	19.23	27.37	10.86	2.42	0.67	3.16	46.84	53.68	1	19	6	3	1	1	23.64	1,107.30				
O0223	3.96	73	31	13.02	3.50	12.63	9.00	21.56	34.50	20.50	3.89	2.46	6.00	43.50	53.00	2	21	16	3	1	1	3.96	172.26				
O0224	27.13	69	31	20.99	6.11	13.46	9.44	9.44	15.00	7.12	1.94	0.44	1.67	24.44	32.22	2	37	9	3	1	0					27.13	663.06
	116.75																					**75.99**	**3,351.79**	**10.35**	**374.84**	**30.41**	**663.06**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0801	2010	65557	Repair Existing Training Area Roads, Phase 1	3.94	178.32				
M0812	2010	65557	Repair Existing Training Area Roads, Phase 1	1.72	71.38				
N0141	2010	65557	Repair Existing Training Area Roads, Phase 1	0.95	38.00				
O0220	2010	65557	Repair Existing Training Area Roads, Phase 1	1.74	81.50				
O0223	2010	65557	Repair Existing Training Area Roads, Phase 1	1.01	43.94				
O0224	2010	65557	Repair Existing Training Area Roads, Phase 1					5.56	135.89
			TOTAL REMOVALS	**9.36**	**413.14**	**0.00**	**0.00**	**5.56**	**135.89**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**66.63**	**2,938.65**
Potentially Suitable Habitat	**10.35**	**374.84**
Future Potential Habitat	**24.85**	**527.17**
TOTAL	**101.83**	**3,840.66**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
26 = Mixed Pine-Longleaf
26U = Mixed Pine-Longleaf Underplanted
31 = Loblolly Pine
ND = no data provided

Appendix Table H-172. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **M08-02b**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0801	17.82	110	21	38.61	11.05	14.80	11.05	21.92	34.21	1.22	4.79	0.00	3.68	45.26	60.00	1	32	12	3	2	4.77	PS			17.82	806.53		
M0803	2.31	71	31	75.61	24.50	47.20	34.00	13.59	19.50	8.37	7.98	0.28	6.00	53.50	84.00	1	26	12	3	2	4.32	PS					2.31	123.59
M0812	8.63	54	21	51.35	14.50	30.25	22.00	13.64	19.50	11.88	1.92	1.91	4.00	41.50	60.00	1	18	8	3	2	4.19	PS					8.63	358.15
M0813	14.93	46	26	26.36	9.00	25.68	19.00	15.82	22.50	18.18	3.01	1.08	3.50	41.50	54.00	1	37	9	3	2	4.44	PS					14.93	619.60
M0813	2.53	46	26U	26.36	9.00	25.68	19.00	15.82	22.50	18.18	3.01	1.08	3.50	41.50	54.00	1	37	9	3	2	4.44	PS					2.53	105.00
M0814	8.04	46	26	75.97	20.00	35.27	22.50	5.64	8.75	2.96	8.54	2.11	10.00	31.25	61.25	1	19	21	3	2	3.22	PS					8.04	251.25
M0815	0.15	71	21	47.14	14.21	14.58	10.53	19.03	28.95	28.07	4.65	1.17	4.74	39.47	58.42	1	22	15	3	2	4.61	PS			0.15	5.92		
M0825	0.85	48	26	27.09	8.00	32.12	24.00	15.55	20.50	24.91	4.32	3.44	8.00	44.50	60.50	1	25	14	3	2	4.28	PS					0.85	37.83
N0138	3.28	77	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.62	PS					3.28	0.00
N0141	3.48	69	21	2.63	0.50	5.35	4.00	19.26	36.00	10.87	5.89	1.92	6.50	40.00	47.00	1	25	24	3	1	4.46	CS	3.48	139.20				
O0220	23.64	73	21	13.10	3.68	26.75	19.47	19.23	27.37	10.86	2.42	0.67	3.16	46.84	53.68	1	19	6	3	1	4.55	CS	23.64	1,107.30				
O0223	3.96	73	31	13.02	3.50	12.63	9.00	21.56	34.50	20.50	3.89	2.46	6.00	43.50	53.00	2	21	16	3	1	4.58	CS	3.96	172.26				
O0224	27.13	69	31	20.99	6.11	13.46	9.44	9.44	15.00	7.12	1.94	0.44	1.67	24.44	32.22	2	37	9	3	1	4.14	PS					27.13	663.06
	116.75																						**31.08**	**1,418.76**	**17.97**	**812.45**	**67.70**	**2,158.48**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0801	2010	65557	Repair Existing Training Area Roads, Phase 1			3.94	178.32		
M0812	2010	65557	Repair Existing Training Area Roads, Phase 1					1.72	71.38
N0141	2010	65557	Repair Existing Training Area Roads, Phase 1	0.95	38.00				
O0220	2010	65557	Repair Existing Training Area Roads, Phase 1	1.74	81.50				
O0223	2010	65557	Repair Existing Training Area Roads, Phase 1	1.01	43.94				
O0224	2010	65557	Repair Existing Training Area Roads, Phase 1					5.56	135.89
			TOTAL REMOVALS	**3.70**	**163.44**	**3.94**	**178.32**	**7.28**	**207.27**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**27.38**	**1,255.32**
Potentially Suitable Habitat	**14.03**	**634.13**
Future Potential Habitat	**60.42**	**1,951.21**
TOTAL	**101.83**	**3,840.66**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
26 = Mixed Pine-Longleaf
26U = Mixed Pine-Longleaf Underplanted
31 = Loblolly Pine
ND = no data provided

Appendix Table H-173. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **M08-04**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0101	0.01	59	21	40.52	11.50	7.45	5.50	13.97	21.00	21.71	8.16	2.69	10.50	26.50	48.50	1	23	34	3	2	0					0.01	0.27
M0629	7.60	65	31	32.94	10.00	20.88	14.50	12.29	18.00	9.51	4.26	1.59	5.00	32.50	47.50	2	21	15	0	0	1	7.60	247.00				
M0637	21.06	61	21	29.26	7.50	11.40	8.50	10.74	17.50	13.95	3.14	2.64	6.00	26.00	39.50	2	23	21	0	0	0					21.06	547.56
M0839	2.51	54	31	32.38	11.00	28.15	20.50	16.08	24.50	23.88	6.81	4.86	11.50	45.00	67.50	1	23	21	3	2	1	0.00	0.00				
M0845	2.54	104	42**	14.36	4.50	13.62	9.50	5.14	7.00	25.04	5.75	4.23	11.50	16.50	32.50	5	16	35	3	2	0					0.00	0.00
M0847	11.80	54	31	53.41	16.00	30.89	22.50	9.85	12.50	22.31	12.62	2.46	12.50	35.00	63.50	2	20	27	3	2	1	0.00	0.00				
M0848	65.83	61	31	84.10	23.00	23.23	16.00	4.90	6.50	17.92	3.13	1.25	4.00	22.50	49.50	1	22	13	3	2	0					65.83	1,481.18
M0853	42.57	55	31	31.69	9.50	28.57	20.50	8.87	12.00	11.54	15.91	5.14	18.00	32.50	60.00	7	13	36	3	2	0			42.57	1,383.53		
M0854	15.05	78	21	21.33	6.00	31.55	22.50	10.85	14.50	6.95	1.81	0.50	1.50	37.00	44.50	1	13	5	3	2	1	15.05	556.85				
M0855	16.22	78	31	22.89	8.00	28.72	20.00	14.62	20.50	1.02	3.48	2.37	6.50	40.50	55.00	1	20	12	3	2	1	16.22	656.91				
M0859	0.86	61	31	84.10	23.00	23.23	16.00	4.90	6.50	17.92	3.13	1.25	4.00	22.50	49.50	1	22	13	3	2	0					0.86	19.35
O1405	5.05	85	10	32.84	11.00	15.71	10.50	3.87	5.00	34.38	8.04	1.57	7.50	15.50	34.00	1	25	33	3	1	0					5.05	78.28
O1415	0.10	62	21	2.67	1.00	9.17	7.00	8.17	13.00	14.26	2.85	1.76	4.50	20.00	25.50	1	21	21	3	1	0					0.10	2.00
O1416	0.58	65	26	35.65	9.00	14.82	10.50	7.33	10.50	5.15	1.61	1.20	3.50	21.00	33.50	7	22	11	3	1	0					0.58	12.18
O1417	13.77	66	31	29.64	8.00	17.15	12.50	12.89	19.00	14.72	6.46	3.00	9.50	31.50	49.00	2	20	24	3	1	1	13.77	433.76				
O1423	2.29	87	42**	11.70	3.50	12.76	9.50	9.76	14.50	26.77	19.26	3.01	18.00	24.00	45.50	7	24	50	3	1	0					0.00	0.00
pp339*	6.32	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					6.32	0.00
pp745*	0.36	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.36	0.00
	214.52																					**52.64**	**1,894.52**	**42.57**	**1,383.53**	**100.17**	**2,140.82**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0855	2009	69741	Training Area Infrastructure-19D/K OSUT	0.30	12.15				
O1416	2009	69741	Training Area Infrastructure-19D/K OSUT					0.23	4.83
O1417	2009	69741	Training Area Infrastructure-19D/K OSUT	1.56	49.14				
pp339*	2009	69741	Training Area Infrastructure-19D/K OSUT					0.93	0.00
			2009 SUB-TOTAL	**1.86**	**61.29**	**0.00**	**0.00**	**1.16**	**4.83**
M0101	2010	65557	Repair Existing Training Area Roads, Phase 1					0.01	0.27
M0637	2010	65557	Repair Existing Training Area Roads, Phase 1					0.24	6.24
M0848	2010	65557	Repair Existing Training Area Roads, Phase 1					2.80	63.00
M0855	2010	65557	Repair Existing Training Area Roads, Phase 1	0.52	21.06				
M0859	2010	65557	Repair Existing Training Area Roads, Phase 1					0.09	2.03
O1405	2010	65557	Repair Existing Training Area Roads, Phase					2.02	31.31
O1417	2010	65557	Repair Existing Training Area Roads, Phase 1	1.70	53.55				
pp339*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.99	0.00
			2010 SUB-TOTAL	**2.22**	**74.61**	**0.00**	**0.00**	**6.15**	**102.85**
			TOTAL REMOVALS	**4.08**	**135.90**	**0.00**	**0.00**	**7.31**	**107.68**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**50.78**	**1,833.23**	**48.56**	**1,758.62**
Potentially Suitable Habitat	**42.57**	**1,383.53**	**42.57**	**1,383.53**
Future Potential Habitat	**99.01**	**2,135.99**	**92.86**	**2,033.14**
TOTAL	**192.36**	**5,352.75**	**183.99**	**5,175.29**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)

* Note: No pine data was collected for pine plantation stands less than 30 years old.
Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-174. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **M08-04R**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10 14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0101	0.01	59	21	40.52	11.50	7.45	5.50	13.97	21.00	21.71	8.16	2.69	10.50	26.50	48.50	1	23	34	3	2	4.03	PS					0.01	0.27
M0629	7.60	65	31	32.94	10.00	20.88	14.50	12.29	18.00	9.51	4.26	1.59	5.00	32.50	47.50	2	21	15	0	0	3.81	PS					7.60	247.00
M0637	21.06	61	21	29.26	7.50	11.40	8.50	10.74	17.50	13.95	3.14	2.64	6.00	26.00	39.50	2	23	21	0	0	3.75	PS					21.06	547.56
M0839	2.51	54	31	32.38	11.00	28.15	20.50	16.08	24.50	23.88	6.81	4.86	11.50	45.00	67.50	1	23	21	3	2	4.33	PS					0.00	0.00
M0845	2.54	104	42**	14.36	4.50	13.62	9.50	5.14	7.00	25.04	5.75	4.23	11.50	16.50	32.50	5	16	35	3	2	3.14	PS					0.00	0.00
M0847	11.80	54	31	53.41	16.00	30.89	22.50	9.85	12.50	22.31	12.62	2.46	12.50	35.00	63.50	2	20	27	3	2	3.63	PS					0.00	0.00
M0848	65.83	61	31	84.10	23.00	23.23	16.00	4.90	6.50	17.92	3.13	1.25	4.00	22.50	49.50	1	22	13	3	2	3.43	PS					65.83	1,481.18
M0853	42.57	55	31	31.69	9.50	28.57	20.50	8.87	12.00	11.54	15.91	5.14	18.00	32.50	60.00	7	13	36	3	2	3.10	PS					42.57	1,383.53
M0854	15.05	78	21	21.33	6.00	31.55	22.50	10.85	14.50	6.95	1.81	0.50	1.50	37.00	44.50	1	13	5	3	2	4.05	PS					15.05	556.85
M0855	16.22	78	31	22.89	8.00	28.72	20.00	14.62	20.50	1.02	3.48	2.37	6.50	40.50	55.00	1	20	12	3	2	4.47	PS					16.22	656.91
M0859	0.86	61	31	84.10	23.00	23.23	16.00	4.90	6.50	17.92	3.13	1.25	4.00	22.50	49.50	1	22	13	3	2	3.43	PS					0.86	19.35
O1405	5.05	85	10	32.84	11.00	15.71	10.50	3.87	5.00	34.38	8.04	1.57	7.50	15.50	34.00	1	25	33	3	1	3.11	PS					5.05	78.28
O1415	0.10	62	21	2.67	1.00	9.17	7.00	8.17	13.00	14.26	2.85	1.76	4.50	20.00	25.50	1	21	21	3	1	3.63	PS					0.10	2.00
O1416	0.58	65	26	35.65	9.00	14.82	10.50	7.33	10.50	5.15	1.61	1.20	3.50	21.00	33.50	7	22	11	3	1	3.32	PS					0.58	12.18
O1417	13.77	66	31	29.64	8.00	17.15	12.50	12.89	19.00	14.72	6.46	3.00	9.50	31.50	49.00	2	20	24	3	1	3.89	PS					13.77	433.76
O1423	2.29	87	42**	11.70	3.50	12.76	9.50	9.76	14.50	26.77	19.26	3.01	18.00	24.00	45.50	7	24	50	3	1	3.32	PS					0.00	0.00
pp339*	6.32	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					6.32	0.00
pp745*	0.36	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.36	0.00
	214.52																						**0.00**	**0.00**	**0.00**	**0.00**	**195.38**	**5,418.87**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0855	2009	69741	Training Area Infrastructure-19D/K OSUT					0.30	12.15
O1416	2009	69741	Training Area Infrastructure-19D/K OSUT					0.23	4.83
O1417	2009	69741	Training Area Infrastructure-19D/K OSUT					1.56	49.14
pp339*	2009	69741	Training Area Infrastructure-19D/K OSUT					0.93	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**3.02**	**66.12**
M0101	2010	65557	Repair Existing Training Area Roads, Phase 1					0.01	0.27
M0637	2010	65557	Repair Existing Training Area Roads, Phase 1					0.24	6.24
M0848	2010	65557	Repair Existing Training Area Roads, Phase 1					2.80	63.00
M0855	2010	65557	Repair Existing Training Area Roads, Phase 1					0.52	21.06
M0859	2010	65557	Repair Existing Training Area Roads, Phase 1					0.09	2.03
O1405	2010	65557	Repair Existing Training Area Roads, Phase 1					2.02	31.31
O1417	2010	65557	Repair Existing Training Area Roads, Phase 1					1.70	53.55
pp339*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.99	0.00
			2010 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**8.37**	**177.46**
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**11.39**	**243.58**

POST-PROJECT

	2009 Acres	2009 BA	2010 Acres	2010 BA
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**192.36**	**5,352.75**	**183.99**	**5,175.29**
TOTAL	**192.36**	**5,352.75**	**183.99**	**5,175.29**

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-175. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **M08-04R**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0101	0.01	59	21	40.52	11.50	7.45	5.50	13.97	21.00	21.71	8.16	2.69	10.50	26.50	48.50	1	23	34	3	2	0					0.01	0.27
M0629	7.60	65	31	32.94	10.00	20.88	14.50	12.29	18.00	9.51	4.26	1.59	5.00	32.50	47.50	2	21	15	0	0	1	7.60	247.00				
M0637	21.06	61	21	29.26	7.50	11.40	8.50	10.74	17.50	13.95	3.14	2.64	6.00	26.00	39.50	2	23	21	0	0	0					21.06	547.56
M0839	2.51	54	31	32.38	11.00	28.15	20.50	16.08	24.50	23.88	6.81	4.86	11.50	45.00	67.50	1	23	21	3	2	1	0.00	0.00				
M0845	2.54	104	42**	14.36	4.50	13.62	9.50	5.14	7.00	25.04	5.75	4.23	11.50	16.50	32.50	5	16	35	3	2	0					0.00	0.00
M0847	11.80	54	31	53.41	16.00	30.89	22.50	9.85	12.50	22.31	12.62	2.46	12.50	35.00	63.50	2	20	27	3	2	1	0.00	0.00				
M0848	65.83	61	31	84.10	23.00	23.23	16.00	4.90	6.50	17.92	3.13	1.25	4.00	22.50	49.50	1	22	13	3	2	0					65.83	1,481.18
M0853	42.57	55	31	31.69	9.50	28.57	20.50	8.87	12.00	11.54	15.91	5.14	18.00	32.50	60.00	7	13	36	3	2	0			42.57	1,383.53		
M0854	15.05	78	21	21.33	6.00	31.55	22.50	10.85	14.50	6.95	1.81	0.50	1.50	37.00	44.50	1	13	5	3	2	1	15.05	556.85				
M0855	16.22	78	31	22.89	8.00	28.72	20.00	14.62	20.50	1.02	3.48	2.37	6.50	40.50	55.00	1	20	12	3	2	1	16.22	656.91				
M0859	0.86	61	31	84.10	23.00	23.23	16.00	4.90	6.50	17.92	3.13	1.25	4.00	22.50	49.50	1	22	13	3	2	0					0.86	19.35
O1405	5.05	85	10	32.84	11.00	15.71	10.50	3.87	5.00	34.38	8.04	1.57	7.50	15.50	34.00	1	25	33	3	1	0					5.05	78.28
O1415	0.10	62	21	2.67	1.00	9.17	7.00	8.17	13.00	14.26	2.85	1.76	4.50	20.00	25.50	1	21	21	3	1	0					0.10	2.00
O1416	0.58	65	26	35.65	9.00	14.82	10.50	7.33	10.50	5.15	1.61	1.20	3.50	21.00	33.50	7	22	11	3	1	0					0.58	12.18
O1417	13.77	66	31	29.64	8.00	17.15	12.50	12.89	19.00	14.72	6.46	3.00	9.50	31.50	49.00	2	20	24	3	1	1	13.77	433.76				
O1423	2.29	87	42**	11.70	3.50	12.76	9.50	9.76	14.50	26.77	19.26	3.01	18.00	24.00	45.50	7	24	50	3	1	0					0.00	0.00
pp339*	6.32	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					6.32	0.00
pp745*	0.36	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.36	0.00
	214.52																					**52.64**	**1,894.52**	**42.57**	**1,383.53**	**100.17**	**2,140.82**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0101	2010	65557	Repair Existing Training Area Roads, Phase 1					0.01	0.27
M0637	2010	65557	Repair Existing Training Area Roads, Phase 1					0.24	6.24
M0848	2010	65557	Repair Existing Training Area Roads, Phase 1					2.80	63.00
M0855	2010	65557	Repair Existing Training Area Roads, Phase 1	0.69	27.95				
M0859	2010	65557	Repair Existing Training Area Roads, Phase 1					0.09	2.03
O1405	2010	65557	Repair Existing Training Area Roads, Phase 1					2.02	31.31
O1417	2010	65557	Repair Existing Training Area Roads, Phase 1	1.94	61.11				
pp339*	2010	65557	Repair Existing Training Area Roads, Phase 1					1.08	0.00
			TOTAL REMOVALS	**2.63**	**89.06**	**0.00**	**0.00**	**6.24**	**102.85**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**50.01**	**1,805.46**
Potentially Suitable Habitat	**42.57**	**1,383.53**
Future Potential Habitat	**93.93**	**2,037.97**
TOTAL	**186.51**	**5,226.96**

Key:

BA= basal area
~~dbh= diameter at breast height~~
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
~~0=no data available~~
1=non-growing season
2=growing season

Stand Score
~~0=Unsuitable~~
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-176. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **M08-04R**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10 14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0101	0.01	59	21	40.52	11.50	7.45	5.50	13.97	21.00	21.71	8.16	2.69	10.50	26.50	48.50	1	23	34	3	2	4.03	PS					0.01	0.27
M0629	7.60	65	31	32.94	10.00	20.88	14.50	12.29	18.00	9.51	4.26	1.59	5.00	32.50	47.50	2	21	15	0	0	3.81	PS					7.60	247.00
M0637	21.06	61	21	29.26	7.50	11.40	8.50	10.74	17.50	13.95	3.14	2.64	6.00	26.00	39.50	2	23	21	0	0	3.75	PS					21.06	547.56
M0839	2.51	54	31	32.38	11.00	28.15	20.50	16.08	24.50	23.88	6.81	4.86	11.50	45.00	67.50	1	23	21	3	2	4.33	PS					0.00	0.00
M0845	2.54	104	42**	14.36	4.50	13.62	9.50	5.14	7.00	25.04	5.75	4.23	11.50	16.50	32.50	5	16	35	3	2	3.14	PS					0.00	0.00
M0847	11.80	54	31	53.41	16.00	30.89	22.50	9.85	12.50	22.31	12.62	2.46	12.50	35.00	63.50	2	20	27	3	2	3.63	PS					0.00	0.00
M0848	65.83	61	31	84.10	23.00	23.23	16.00	4.90	6.50	17.92	3.13	1.25	4.00	22.50	49.50	1	22	13	3	2	3.43	PS					65.83	1,481.18
M0853	42.57	55	31	31.69	9.50	28.57	20.50	8.87	12.00	11.54	15.91	5.14	18.00	32.50	60.00	7	13	36	3	2	3.10	PS					42.57	1,383.53
M0854	15.05	78	21	21.33	6.00	31.55	22.50	10.85	14.50	6.95	1.81	0.50	1.50	37.00	44.50	1	13	5	3	2	4.05	PS					15.05	556.85
M0855	16.22	78	31	22.89	8.00	28.72	20.00	14.62	20.50	1.02	3.48	2.37	6.50	40.50	55.00	1	20	12	3	2	4.47	PS					16.22	656.91
M0859	0.86	61	31	84.10	23.00	23.23	16.00	4.90	6.50	17.92	3.13	1.25	4.00	22.50	49.50	1	22	13	3	2	3.43	PS					0.86	19.35
O1405	5.05	85	10	32.84	11.00	15.71	10.50	3.87	5.00	34.38	8.04	1.57	7.50	15.50	34.00	1	25	33	3	1	3.11	PS					5.05	78.28
O1415	0.10	62	21	2.67	1.00	9.17	7.00	8.17	13.00	14.26	2.85	1.76	4.50	20.00	25.50	1	21	21	3	1	3.63	PS					0.10	2.00
O1416	0.58	65	26	35.65	9.00	14.82	10.50	7.33	10.50	5.15	1.61	1.20	3.50	21.00	33.50	7	22	11	3	1	3.32	PS					0.58	12.18
O1417	13.77	66	31	29.64	8.00	17.15	12.50	12.89	19.00	14.72	6.46	3.00	9.50	31.50	49.00	2	20	24	3	1	3.89	PS					13.77	433.76
O1423	2.29	87	42**	11.70	3.50	12.76	9.50	9.76	14.50	26.77	19.26	3.01	18.00	24.00	45.50	7	24	50	3	1	3.32	PS					0.00	0.00
pp339*	6.32	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					6.32	0.00
pp745*	0.36	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.36	0.00
	214.52																						**0.00**	**0.00**	**0.00**	**0.00**	**195.38**	**5,418.87**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0101	2010	65557	Repair Existing Training Area Roads, Phase 1					0.01	0.27
M0637	2010	65557	Repair Existing Training Area Roads, Phase 1					0.24	6.24
M0848	2010	65557	Repair Existing Training Area Roads, Phase 1					2.80	63.00
M0855	2010	65557	Repair Existing Training Area Roads, Phase 1					0.69	27.95
M0859	2010	65557	Repair Existing Training Area Roads, Phase 1					0.09	2.03
O1405	2010	65557	Repair Existing Training Area Roads, Phase 1					2.02	31.31
O1417	2010	65557	Repair Existing Training Area Roads, Phase 1					1.94	61.11
pp339*	2010	65557	Repair Existing Training Area Roads, Phase 1					1.08	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**8.87**	**191.91**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**186.51**	**5,226.96**
TOTAL	**186.51**	**5,226.96**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)

* Note: No pine data was collected for pine plantation stands less than 30 years old.
Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-177. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **M08-05Ŗ Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0818	0.23	54	31	43.07	11.67	29.20	20.00	16.15	23.33	5.29	2.16	0.00	1.67	43.33	56.67	1	23	5	3	2	1	0.23	9.97				
M0825	1.51	48	26	27.09	8.00	32.12	24.00	15.55	20.50	24.91	4.32	3.44	8.00	44.50	60.50	1	25	14	3	2	1	1.51	67.20				
M0825	0.07	48	26U	27.09	8.00	32.12	24.00	15.55	20.50	24.91	4.32	3.44	8.00	44.50	60.50	1	25	14	3	2	1	0.07	3.12				
M0826	20.58	45	21	111.85	32.00	49.10	33.00	8.18	10.50	20.63	6.10	4.43	10.50	43.50	86.00	1	21	16	3	2	0			20.58	895.23		
M0827	11.13	45	22P	127.64	40.00	50.58	33.50	6.85	7.50	12.18	4.35	2.30	6.00	41.00	87.00	1	5	10	3	2	0			11.13	456.33		
M0828	15.54	42	26	102.18	31.00	45.91	32.00	7.69	9.50	10.86	7.84	5.85	13.00	41.50	85.50	5	13	20	3	2	0			15.54	644.91		
M0829	15.98	95	21	8.36	2.50	7.79	5.50	34.93	58.00	5.56	2.86	1.02	4.50	63.50	70.50	6	12	8	3	2	0			15.98	1,014.73		
M0830	10.77	50	13	54.90	16.00	33.01	22.50	5.78	8.50	42.10	11.72	3.98	14.00	31.00	61.00	5	13	29	3	2	0			10.77	333.87		
M0834	55.86	51	13	41.80	14.00	31.87	23.00	14.95	22.50	27.25	5.62	2.98	8.50	45.50	68.00	1	12	16	3	1	1	55.86	2,541.63				
M0835	2.15	24	31P	171.40	44.29	18.42	11.43	5.00	7.14	14.55	2.42	1.36	2.86	18.57	65.71	6	14	14	3	1	0					2.15	39.93
M0836	8.45	70	31	43.27	12.00	28.99	21.50	12.05	18.00	19.71	13.28	5.74	17.00	39.50	68.50	1	19	32	3	2	1	8.45	333.78				
M0838	10.04	39	31	72.95	19.50	28.61	19.00	9.02	11.50	28.39	5.96	1.60	7.00	30.50	57.00	4	14	17	3	2	0			10.04	306.22		
M0839	28.27	54	31	32.38	11.00	28.15	20.50	16.08	24.50	23.88	6.81	4.86	11.50	45.00	67.50	1	23	21	3	2	1	28.27	1,272.15				
M0840	21.02	49	31	72.23	21.00	21.52	14.00	7.56	10.00	31.00	11.41	4.50	13.50	24.00	58.50	1	14	35	3	2	0					21.02	504.48
M0860	14.06	49	31	72.23	21.00	21.52	14.00	7.56	10.00	31.00	11.41	4.50	13.50	24.00	58.50	1	14	35	3	2	0					14.06	337.44
M0861	4.59	49	31	72.23	21.00	21.52	14.00	7.56	10.00	31.00	11.41	4.50	13.50	24.00	58.50	1	14	35	3	2	0					4.59	110.16
O0104	0.44	42	21	12.29	4.50	12.76	9.50	8.78	12.00	8.79	2.69	0.88	4.00	21.50	30.00	1	21	14	3	1	0					0.44	9.46
O0106	0.02	95	22P	59.79	21.00	40.23	26.50	9.52	14.00	13.01	4.99	2.44	6.00	40.50	67.50	2	8	13	3	1	0			0.02	0.81		
O0111	10.56	84	31	29.84	7.37	3.76	3.16	4.92	8.95	8.06	6.77	2.63	9.47	12.11	28.95	2	26	52	3	1	0					10.56	127.88
O0117	0.79	0	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
O0121	1.85	46	31	118.84	34.00	36.81	25.00	2.77	3.50	2.76	6.05	2.04	7.00	28.50	69.50	1	16	17	3	1	0					1.85	52.73
O0124	0.33	40	31	50.76	15.00	27.06	19.50	12.69	17.50	15.71	2.65	0.57	2.50	37.00	54.50	1	26	7	3	1	1	0.33	12.21				
pp937*	13.79	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					13.79	0.00
pp959*	0.13	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.13	0.00
pp960*	4.45	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					4.45	0.00
	252.63																					**94.72**	**4,240.06**	**84.06**	**3,652.10**	**73.04**	**1,182.08**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0830	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails			0.28	8.68		
O0104	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.37	7.96
O0106	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails			0.02	0.81		
O0111	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.28	3.39
pp959*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.09	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.30**	**9.49**	**0.74**	**11.35**
M0827	2010	65557	Repair Existing Training Area Roads, Phase 1			0.01	0.41		
M0830	2010	65557	Repair Existing Training Area Roads, Phase 1			1.53	47.43		
M0840	2010	65557	Repair Existing Training Area Roads, Phase 1					0.03	0.72
M0860	2010	65557	Repair Existing Training Area Roads, Phase 1					2.31	55.44
O0104	2010	65557	Repair Existing Training Area Roads, Phase 1					0.07	1.51
O0111	2010	65557	Repair Existing Training Area Roads, Phase 1					2.83	34.27
O0124	2010	65557	Repair Existing Training Area Roads, Phase 1	0.26	9.62				
			2010 SUB-TOTAL	**0.26**	**9.62**	**1.54**	**47.84**	**5.24**	**91.94**
			TOTAL REMOVALS	**0.26**	**9.62**	**1.84**	**57.33**	**5.98**	**103.29**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**94.72**	**4,240.06**	**94.46**	**4,230.44**
Potentially Suitable Habitat	**83.76**	**3,642.61**	**82.22**	**3,594.77**
Future Potential Habitat	**72.30**	**1,170.73**	**67.06**	**1,078.79**
TOTAL	**250.78**	**9,053.40**	**243.74**	**8,904.00**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
26U = Mixed Pine-Longleaf Underplanted
31 = Loblolly Pine
31P = Loblolly Pine Plantation
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-178. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **M08-05R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0818	0.23	54	31	43.07	11.67	29.20	20.00	16.15	23.33	5.29	2.16	0.00	1.67	43.33	56.67	1	23	5	3	2	4.43	PS					0.23	9.97
M0825	1.51	48	26	27.09	8.00	32.12	24.00	15.55	20.50	24.91	4.32	3.44	8.00	44.50	60.50	1	25	14	3	2	4.28	PS					1.51	67.20
M0825	0.07	48	26U	27.09	8.00	32.12	24.00	15.55	20.50	24.91	4.32	3.44	8.00	44.50	60.50	1	25	14	3	2	4.28	PS					0.07	3.12
M0826	20.58	45	21	111.85	32.00	49.10	33.00	8.18	10.50	20.63	6.10	4.43	10.50	43.50	86.00	1	21	16	3	2	3.57	PS					20.58	895.23
M0827	11.13	45	22P	127.64	40.00	50.58	33.50	6.85	7.50	12.18	4.35	2.30	6.00	41.00	87.00	1	5	10	3	2	3.23	PS					11.13	456.33
M0828	15.54	42	26	102.18	31.00	45.91	32.00	7.69	9.50	10.86	7.84	5.85	13.00	41.50	85.50	5	13	20	3	2	3.04	PS					15.54	644.91
M0829	15.98	95	21	8.36	2.50	7.79	5.50	34.93	58.00	5.56	2.86	1.02	4.50	63.50	70.50	6	12	8	3	2	4.47	PS			15.98	1,014.73		
M0830	10.77	50	13	54.90	16.00	33.01	22.50	5.78	8.50	42.10	11.72	3.98	14.00	31.00	61.00	5	13	29	3	2	3.06	PS					10.77	333.87
M0834	55.86	51	13	41.80	14.00	31.87	23.00	14.95	22.50	27.25	5.62	2.98	8.50	45.50	68.00	1	12	16	3	1	4.11	PS					55.86	2,541.63
M0835	2.15	24	31P	171.40	44.29	18.42	11.43	5.00	7.14	14.55	2.42	1.36	2.86	18.57	65.71	6	14	14	3	1	2.32	NH					2.15	39.93
M0836	8.45	70	31	43.27	12.00	28.99	21.50	12.05	18.00	19.71	13.28	5.74	17.00	39.50	68.50	1	19	32	3	2	3.87	PS					8.45	333.78
M0838	10.04	39	31	72.95	19.50	28.61	19.00	9.02	11.50	28.39	5.96	1.60	7.00	30.50	57.00	4	14	17	3	2	3.25	PS					10.04	306.22
M0839	28.27	54	31	32.38	11.00	28.15	20.50	16.08	24.50	23.88	6.81	4.86	11.50	45.00	67.50	1	23	21	3	2	4.33	PS					28.27	1,272.15
M0840	21.02	49	31	72.23	21.00	21.52	14.00	7.56	10.00	31.00	11.41	4.50	13.50	24.00	58.50	1	14	35	3	2	3.18	PS					21.02	504.48
M0860	14.06	49	31	72.23	21.00	21.52	14.00	7.56	10.00	31.00	11.41	4.50	13.50	24.00	58.50	1	14	35	3	2	3.18	PS					14.06	337.44
M0861	4.59	49	31	72.23	21.00	21.52	14.00	7.56	10.00	31.00	11.41	4.50	13.50	24.00	58.50	1	14	35	3	2	3.18	PS					4.59	110.16
O0104	0.44	42	21	12.29	4.50	12.76	9.50	8.78	12.00	8.79	2.69	0.88	4.00	21.50	30.00	1	21	14	3	1	3.42	PS					0.44	9.46
O0106	0.02	95	22P	59.79	21.00	40.23	26.50	9.52	14.00	13.01	4.99	2.44	6.00	40.50	67.50	2	8	13	3	1	3.70	PS					0.02	0.81
O0111	10.56	84	31	29.84	7.37	3.76	3.16	4.92	8.95	8.06	6.77	2.63	9.47	12.11	28.95	2	26	52	3	1	3.14	PS					10.56	127.88
O0117	0.79	0	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
O0121	1.85	46	31	118.84	34.00	36.81	25.00	2.77	3.50	2.76	6.05	2.04	7.00	28.50	69.50	1	16	17	3	1	2.72	PS					1.85	52.73
O0124	0.33	40	31	50.76	15.00	27.06	19.50	12.69	17.50	15.71	2.65	0.57	2.50	37.00	54.50	1	26	7	3	1	3.80	PS					0.33	12.21
pp937*	13.79	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					13.79	0.00
pp959*	0.13	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.13	0.00
pp960*	4.45	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					4.45	0.00
	252.63																						**0.00**	**0.00**	**15.98**	**1,014.73**	**235.84**	**8,059.51**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0830	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.28	8.68
O0104	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.37	7.96
O0106	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.02	0.81
O0111	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.28	3.39
pp959*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.09	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**1.04**	**20.84**
M0827	2010	65557	Repair Existing Training Area Roads, Phase 1					0.01	0.41
M0830	2010	65557	Repair Existing Training Area Roads, Phase 1					1.53	47.43
M0840	2010	65557	Repair Existing Training Area Roads, Phase 1					0.03	0.72
M0860	2010	65557	Repair Existing Training Area Roads, Phase 1					2.31	55.44
O0104	2010	65557	Repair Existing Training Area Roads, Phase 1					0.07	1.51
O0111	2010	65557	Repair Existing Training Area Roads, Phase 1					2.83	34.27
O0124	2010	65557	Repair Existing Training Area Roads, Phase 1					0.26	9.62
			2010 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**7.04**	**149.40**
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**8.08**	**170.24**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**15.98**	**1,014.73**	**15.98**	**1,014.73**
Future Potential Habitat	**234.80**	**8,038.67**	**227.76**	**7,889.27**
TOTAL	**250.78**	**9,053.40**	**243.74**	**8,904.00**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
26U = Mixed Pine-Longleaf Underplanted
31 = Loblolly Pine
31P = Loblolly Pine Plantation
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-179. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **N01-02 Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
N0110	1.66	79	21	10.97	4.00	11.58	9.00	28.47	46.50	3.95	2.04	0.45	2.50	55.50	62.00	2	43	6	3	1	1	0.00	0.00				
N0114	3.00	85	31	63.02	21.00	35.03	23.00	10.29	16.50	6.74	8.05	0.48	5.50	39.50	66.00	5	27	16	3	1	0			0.00	0.00		
N0116	20.41	74	21	13.49	4.00	8.64	6.50	24.65	39.50	1.55	0.00	0.00	0.00	46.00	50.00	2	28	0	3	1	1	20.41	938.86				
N0119	16.68	87	21	8.39	2.94	8.03	5.88	7.05	12.94	1.53	0.00	0.00	0.00	18.82	21.76	1	42	0	3	1	0					16.68	313.92
N0120	10.46	95	31	0.00	0.00	14.87	10.00	20.53	38.00	8.58	3.20	0.67	3.00	48.00	51.00	8	21	10	3	1	0			10.46	502.08		
N0121	26.44	43	22P	45.49	15.50	50.49	34.50	3.66	4.50	0.00	0.00	0.00	0.00	39.00	54.50	2	38	0	3	1	1	26.44	1,031.16				
N0122	18.41	68	31	9.47	3.00	18.94	13.50	10.13	16.50	2.17	0.00	0.35	1.00	30.00	34.00	1	38	1	3	1	1	18.41	552.30				
N0123	14.52	43	31	8.96	3.33	34.84	26.00	15.40	21.33	1.58	0.00	0.47	0.67	47.33	51.33	6	34	1	3	1	0			14.52	687.23		
N0125	5.42	85	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
O0202	1.86	71	21	64.72	16.25	17.19	11.25	6.10	8.75	18.24	1.30	1.49	3.75	20.00	40.00	2	26	11	3	1	0					1.86	37.20
O0204	4.35	71	31	17.20	4.50	14.29	10.00	12.50	24.50	6.00	0.76	0.97	3.00	34.50	42.00	7	27	6	3	1	0			4.35	150.08		
O0210	0.08	50	31	17.16	5.00	18.22	13.00	9.77	16.00	10.92	2.29	0.34	2.00	29.00	36.00	2	27	9	3	1	0					0.00	0.00
pp697*	3.41	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.41	0.00
pp698*	1.87	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.87	0.00
pp809*	9.77	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					9.77	0.00
	138.34																					**65.26**	**2,522.32**	**29.33**	**1,339.39**	**33.59**	**351.12**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
N0121	2010	65557	Repair Existing Training Area Roads, Phase 1	0.98	38.22				
N0123	2010	65557	Repair Existing Training Area Roads, Phase 1			1.31	62.00		
O0202	2010	65557	Repair Existing Training Area Roads, Phase 1					1.02	20.40
O0204	2010	65557	Repair Existing Training Area Roads, Phase 1			1.05	36.23		
			TOTAL REMOVALS	**0.98**	**38.22**	**2.36**	**98.23**	**1.02**	**20.40**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**64.28**	**2,484.10**
Potentially Suitable Habitat	**26.97**	**1,241.16**
Future Potential Habitat	**32.57**	**330.72**
TOTAL	**123.82**	**4,055.98**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
31 = Loblolly Pine
ND = no data provided

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-180. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **N01-02**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
N0110	1.66	79	21	10.97	4.00	11.58	9.00	28.47	46.50	3.95	2.04	0.45	2.50	55.50	62.00	2	43	6	3	1	4.85	CS	0.00	0.00				
N0114	3.00	85	31	63.02	21.00	35.03	23.00	10.29	16.50	6.74	8.05	0.48	5.50	39.50	66.00	5	27	16	3	1	3.76	PS					3.00	118.50
N0116	20.41	74	21	13.49	4.00	8.64	6.50	24.65	39.50	1.55	0.00	0.00	0.00	46.00	50.00	2	28	0	3	1	4.65	CS	20.41	938.86				
N0119	16.68	87	21	8.39	2.94	8.03	5.88	7.05	12.94	1.53	0.00	0.00	0.00	18.82	21.76	1	42	0	3	1	3.91	PS					16.68	313.92
N0120	10.46	95	31	0.00	0.00	14.87	10.00	20.53	38.00	8.58	3.20	0.67	3.00	48.00	51.00	8	21	10	3	1	4.30	PS			10.46	502.08		
N0121	26.44	43	22P	45.49	15.50	50.49	34.50	3.66	4.50	0.00	0.00	0.00	0.00	39.00	54.50	2	38	0	3	1	3.18	PS					26.44	1,031.16
N0122	18.41	68	31	9.47	3.00	18.94	13.50	10.13	16.50	2.17	0.00	0.35	1.00	30.00	34.00	1	38	1	3	1	4.20	PS					18.41	552.30
N0123	14.52	43	31	8.96	3.33	34.84	26.00	15.40	21.33	1.58	0.00	0.47	0.67	47.33	51.33	6	34	1	3	1	4.09	PS					14.52	687.23
N0125	5.42	85	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.62	PS					0.00	0.00
O0202	1.86	71	21	64.72	16.25	17.19	11.25	6.10	8.75	18.24	1.30	1.49	3.75	20.00	40.00	2	26	11	3	1	3.46	PS					1.86	37.20
O0204	4.35	71	31	17.20	4.50	14.29	10.00	12.50	24.50	6.00	0.76	0.97	3.00	34.50	42.00	7	27	6	3	1	3.95	PS					4.35	150.08
O0210	0.08	50	31	17.16	5.00	18.22	13.00	9.77	16.00	10.92	2.29	0.34	2.00	29.00	36.00	2	27	9	3	1	3.96	PS					0.00	0.00
pp697*	3.41	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.41	0.00
pp698*	1.87	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.87	0.00
pp809*	9.77	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					9.77	0.00
	138.34																						**20.41**	**938.86**	**10.46**	**502.08**	**100.31**	**2,890.39**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
N0121	2010	65557	Repair Existing Training Area Roads, Phase 1					0.98	38.22
N0123	2010	65557	Repair Existing Training Area Roads, Phase 1					1.31	62.00
O0202	2010	65557	Repair Existing Training Area Roads, Phase 1					1.02	20.40
O0204	2010	65557	Repair Existing Training Area Roads, Phase 1					1.05	36.23
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**4.36**	**156.85**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**20.41**	**938.86**
Potentially Suitable Habitat	**10.46**	**502.08**
Future Potential Habitat	**95.95**	**2,733.54**
TOTAL	**126.82**	**4,174.48**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
31 = Loblolly Pine
ND = no data provided

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-181. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O01-01**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0109	0.10	59	31	17.62	5.50	18.71	13.00	15.97	22.00	6.10	5.31	2.75	8.00	35.00	48.50	3	21	19	3	1	1	0.10	3.50				
O0110	1.48	23	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
O0114	28.30	42	22P	77.71	26.00	44.34	28.00	3.82	5.00	1.43	1.59	1.44	2.50	33.00	61.50	2	25	6	3	1	0			28.30	933.90		
O0116	15.61	61	31	6.68	2.00	9.18	7.00	15.59	24.50	4.22	0.00	0.28	1.00	31.50	34.50	1	37	1	3	1	1	15.61	491.72				
O0122	35.04	81	26	12.83	4.00	17.01	12.50	14.63	22.00	7.94	6.55	2.78	8.50	34.50	47.00	2	28	23	3	1	1	35.04	1,208.88				
O0123	22.72	86	31	7.65	2.50	12.49	9.00	21.91	38.00	4.56	2.44	1.17	3.00	47.00	52.50	1	21	9	3	1	1	22.72	1,067.84				
O0126	0.05	83	31	33.82	9.50	17.96	13.00	18.34	28.00	22.55	12.49	3.17	12.50	41.00	63.00	7	23	30	3	1	0			0.05	2.05		
O0127	1.70	45	31	37.95	12.50	44.49	27.50	0.00	0.00	0.00	0.00	0.00	0.00	27.50	40.00	2	20	0	3	1	0					1.70	46.75
O1401	0.04	45	31	47.92	13.16	25.49	17.37	7.10	8.42	7.79	1.64	0.00	1.05	25.79	40.00	1	29	5	3	1	0					0.04	1.03
O1402	11.53	81	21	3.60	1.00	6.57	5.00	21.15	31.00	11.40	3.05	3.10	7.00	36.00	44.00	1	20	18	3	1	1	11.53	415.08				
O1506	24.89	85	31	14.39	4.21	14.27	10.53	14.00	25.79	29.01	10.99	6.75	17.89	36.32	58.42	2	4	39	3	1	1	24.89	904.00				
O1510	0.83	75	21	17.79	5.00	9.59	7.00	16.57	28.50	1.63	4.66	4.07	9.00	35.50	49.50	1	15	25	3	1	1	0.83	29.47				
pp373*	5.70	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.70	0.00
pp958*	1.81	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.81	0.00
	149.80																					**110.72**	**4,120.49**	**28.35**	**935.95**	**9.25**	**47.78**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0122	2009	69741	Training Area Infrastructure 19 D/K OSUT-Upgrade Tank Trails	1.00	34.50				
O0123	2009	69742	Northern Training Area Infrastructure	1.07	50.29				
O0123	2009	69741	Training Area Infrastructure 19 D/K OSUT-Upgrade Tank Trails	1.63	76.61				
O0127	2009	69741	Training Area Infrastructure 19 D/K OSUT-Upgrade Tank Trails					0.30	8.25
O1401	2009	69741	Training Area Infrastructure 19 D/K OSUT-Upgrade Tank Trails					0.04	1.03
O1402	2009	69741	Training Area Infrastructure 19 D/K OSUT-Upgrade Tank Trails	1.03	37.08				
O1506	2009	69742	Northern Training Area Infrastructure	1.24	45.04				
O1506	2009	69741	Training Area Infrastructure 19 D/K OSUT-Upgrade Tank Trails	4.03	146.37				
			TOTAL REMOVALS	**10.00**	**389.89**	**0.00**	**0.00**	**0.34**	**9.28**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**100.72**	**3,730.60**
Potentially Suitable Habitat	**28.35**	**935.95**
Future Potential Habitat	**8.91**	**38.50**
TOTAL	**137.98**	**4,705.05**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-182. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O01-01**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0109	0.10	59	31	17.62	5.50	18.71	13.00	15.97	22.00	6.10	5.31	2.75	8.00	35.00	48.50	3	21	19	3	1	4.18	PS					0.10	3.50
O0110	1.48	23	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
O0114	28.30	42	22P	77.71	26.00	44.34	28.00	3.82	5.00	1.43	1.59	1.44	2.50	33.00	61.50	2	25	6	3	1	3.17	PS					28.30	933.90
O0116	15.61	61	31	6.68	2.00	9.18	7.00	15.59	24.50	4.22	0.00	0.28	1.00	31.50	34.50	1	37	1	3	1	4.49	PS					15.61	491.72
O0122	35.04	81	26	12.83	4.00	17.01	12.50	14.63	22.00	7.94	6.55	2.78	8.50	34.50	47.00	2	28	23	3	1	4.32	PS					35.04	1,208.88
O0123	22.72	86	31	7.65	2.50	12.49	9.00	21.91	38.00	4.56	2.44	1.17	3.00	47.00	52.50	1	21	9	3	1	4.65	CS	22.72	1,067.84				
O0126	0.05	83	31	33.82	9.50	17.96	13.00	18.34	28.00	22.55	12.49	3.17	12.50	41.00	63.00	7	23	30	3	1	4.01	PS			0.05	2.05		
O0127	1.70	45	31	37.95	12.50	44.49	27.50	0.00	0.00	0.00	0.00	0.00	0.00	27.50	40.00	2	20	0	3	1	3.04	PS					1.70	46.75
O1401	0.04	45	31	47.92	13.16	25.49	17.37	7.10	8.42	7.79	1.64	0.00	1.05	25.79	40.00	1	29	5	3	1	3.27	PS					0.04	1.03
O1402	11.53	81	21	3.60	1.00	6.57	5.00	21.15	31.00	11.40	3.05	3.10	7.00	36.00	44.00	1	20	18	3	1	4.47	CS	11.53	415.08				
O1506	24.89	85	31	14.39	4.21	14.27	10.53	14.00	25.79	29.01	10.99	6.75	17.89	36.32	58.42	2	4	39	3	1	3.99	PS					24.89	904.00
O1510	0.83	75	21	17.79	5.00	9.59	7.00	16.57	28.50	1.63	4.66	4.07	9.00	35.50	49.50	1	15	25	3	1	4.15	PS					0.83	29.47
pp373*	5.70	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					5.70	0.00
pp958*	1.81	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.81	0.00
	149.80																						**34.25**	**1,482.92**	**0.05**	**2.05**	**114.02**	**3,619.25**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0122	2009	69741	Training Area Infrastructure 19 D/K OSUT-Upgrade Tank Trails					1.00	34.50
O0123	2009	69742	Northern Training Area Infrastructure	1.07	50.29				
O0123	2009	69741	Training Area Infrastructure 19 D/K OSUT-Upgrade Tank Trails	1.63	76.61				
O0127	2009	69741	Training Area Infrastructure 19 D/K OSUT-Upgrade Tank Trails					0.30	8.25
O1401	2009	69741	Training Area Infrastructure 19 D/K OSUT-Upgrade Tank Trails					0.04	1.03
O1402	2009	69741	Training Area Infrastructure 19 D/K OSUT-Upgrade Tank Trails	1.03	37.08				
O1506	2009	69742	Northern Training Area Infrastructure					1.24	45.04
O1506	2009	69741	Training Area Infrastructure 19 D/K OSUT-Upgrade Tank Trails					4.03	146.37
			TOTAL REMOVALS	**3.73**	**163.98**	**0.00**	**0.00**	**6.61**	**235.19**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**30.52**	**1,318.94**
Potentially Suitable Habitat	**0.05**	**2.05**
Future Potential Habitat	**107.41**	**3,384.06**
TOTAL	**137.98**	**4,705.05**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-183. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O01-01**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0109	0.10	59	31	17.62	5.50	18.71	13.00	15.97	22.00	6.10	5.31	2.75	8.00	35.00	48.50	3	21	19	3	1	1	0.10	3.50				
O0110	1.48	23	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
O0114	28.30	42	22P	77.71	26.00	44.34	28.00	3.82	5.00	1.43	1.59	1.44	2.50	33.00	61.50	2	25	6	3	1	0			28.30	933.90		
O0116	15.61	61	31	6.68	2.00	9.18	7.00	15.59	24.50	4.22	0.00	0.28	1.00	31.50	34.50	1	37	1	3	1	1	15.61	491.72				
O0122	35.04	81	26	12.83	4.00	17.01	12.50	14.63	22.00	7.94	6.55	2.78	8.50	34.50	47.00	2	28	23	3	1	1	35.04	1,208.88				
O0123	22.72	86	31	7.65	2.50	12.49	9.00	21.91	38.00	4.56	2.44	1.17	3.00	47.00	52.50	1	21	9	3	1	1	22.72	1,067.84				
O0126	0.05	83	31	33.82	9.50	17.96	13.00	18.34	28.00	22.55	12.49	3.17	12.50	41.00	63.00	7	23	30	3	1	0			0.05	2.05		
O0127	1.70	45	31	37.95	12.50	44.49	27.50	0.00	0.00	0.00	0.00	0.00	0.00	27.50	40.00	2	20	0	3	1	0					1.70	46.75
O1401	0.04	45	31	47.92	13.16	25.49	17.37	7.10	8.42	7.79	1.64	0.00	1.05	25.79	40.00	1	29	5	3	1	0					0.04	1.03
O1402	11.53	81	21	3.60	1.00	6.57	5.00	21.15	31.00	11.40	3.05	3.10	7.00	36.00	44.00	1	20	18	3	1	1	11.53	415.08				
O1506	24.89	85	31	14.39	4.21	14.27	10.53	14.00	25.79	29.01	10.99	6.75	17.89	36.32	58.42	2	4	39	3	1	1	24.89	904.00				
O1510	0.83	75	21	17.79	5.00	9.59	7.00	16.57	28.50	1.63	4.66	4.07	9.00	35.50	49.50	1	15	25	3	1	1	0.83	29.47				
pp373*	5.70	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.70	0.00
pp958*	1.81	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.81	0.00
	149.80																					**110.72**	**4,120.49**	**28.35**	**935.95**	**9.25**	**47.78**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0123	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails	1.07	50.29				
O1506	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails	1.24	45.04				
			TOTAL REMOVALS	**2.31**	**95.33**	**0.00**	**0.00**	**0.00**	**0.00**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**108.41**	**4,025.16**
Potentially Suitable Habitat	**28.35**	**935.95**
Future Potential Habitat	**9.25**	**47.78**
TOTAL	**146.01**	**5,008.89**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-184. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O01-01**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0109	0.10	59	31	17.62	5.50	18.71	13.00	15.97	22.00	6.10	5.31	2.75	8.00	35.00	48.50	3	21	19	3	1	4.18	PS					0.10	3.50
O0110	1.48	23	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
O0114	28.30	42	22P	77.71	26.00	44.34	28.00	3.82	5.00	1.43	1.59	1.44	2.50	33.00	61.50	2	25	6	3	1	3.17	PS					28.30	933.90
O0116	15.61	61	31	6.68	2.00	9.18	7.00	15.59	24.50	4.22	0.00	0.28	1.00	31.50	34.50	1	37	1	3	1	4.49	PS					15.61	491.72
O0122	35.04	81	26	12.83	4.00	17.01	12.50	14.63	22.00	7.94	6.55	2.78	8.50	34.50	47.00	2	28	23	3	1	4.32	PS					35.04	1,208.88
O0123	22.72	86	31	7.65	2.50	12.49	9.00	21.91	38.00	4.56	2.44	1.17	3.00	47.00	52.50	1	21	9	3	1	4.65	CS	22.72	1,067.84				
O0126	0.05	83	31	33.82	9.50	17.96	13.00	18.34	28.00	22.55	12.49	3.17	12.50	41.00	63.00	7	23	30	3	1	4.01	PS			0.05	2.05		
O0127	1.70	45	31	37.95	12.50	44.49	27.50	0.00	0.00	0.00	0.00	0.00	0.00	27.50	40.00	2	20	0	3	1	3.04	PS					1.70	46.75
O1401	0.04	45	31	47.92	13.16	25.49	17.37	7.10	8.42	7.79	1.64	0.00	1.05	25.79	40.00	1	29	5	3	1	3.27	PS					0.04	1.03
O1402	11.53	81	21	3.60	1.00	6.57	5.00	21.15	31.00	11.40	3.05	3.10	7.00	36.00	44.00	1	20	18	3	1	4.47	CS	11.53	415.08				
O1506	24.89	85	31	14.39	4.21	14.27	10.53	14.00	25.79	29.01	10.99	6.75	17.89	36.32	58.42	2	4	39	3	1	3.99	PS					24.89	904.00
O1510	0.83	75	21	17.79	5.00	9.59	7.00	16.57	28.50	1.63	4.66	4.07	9.00	35.50	49.50	1	15	25	3	1	4.15	PS					0.83	29.47
pp373*	5.70	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					5.70	0.00
pp958*	1.81	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.81	0.00
	149.80																						**34.25**	**1,482.92**	**0.05**	**2.05**	**114.02**	**3,619.25**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0123	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					1.07	50.29
O1506	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					1.24	45.04
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**2.31**	**95.33**

POST-PROJECT

	2009	
	Acres	**BA**
Suitable Habitat	**34.25**	**1,482.92**
Potentially Suitable Habitat	**0.05**	**2.05**
Future Potential Habitat	**111.71**	**3,523.92**
TOTAL	**146.01**	**5,008.89**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-185. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O01-02**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0840	11.57	49	31	72.23	21.00	21.52	14.00	7.56	10.00	31.00	11.41	4.50	13.50	24.00	58.50	1	14	35	3	2	0					11.57	277.68
M0859	22.23	61	31	84.10	23.00	23.23	16.00	4.90	6.50	17.92	3.13	1.25	4.00	22.50	49.50	1	22	13	3	2	0					22.23	500.18
M0860	0.02	49	31	72.23	21.00	21.52	14.00	7.56	10.00	31.00	11.41	4.50	13.50	24.00	58.50	1	14	35	3	2	0					0.02	0.48
M0861	14.12	49	31	72.23	21.00	21.52	14.00	7.56	10.00	31.00	11.41	4.50	13.50	24.00	58.50	1	14	35	3	2	0					14.12	338.88
O0117	0.48	0	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
O0121	12.26	46	31	118.84	34.00	36.81	25.00	2.77	3.50	2.76	6.05	2.04	7.00	28.50	69.50	1	16	17	3	1	0					12.26	349.41
O0122	4.25	81	26	12.83	4.00	17.01	12.50	14.63	22.00	7.94	6.55	2.78	8.50	34.50	47.00	2	28	23	3	1	1	4.25	146.63				
O0124	17.68	40	31	50.76	15.00	27.06	19.50	12.69	17.50	15.71	2.65	0.57	2.50	37.00	54.50	1	26	7	3	1	1	17.68	654.16				
O0125	33.01	82	42**	19.25	7.00	20.22	14.00	8.74	13.50	12.41	11.09	4.19	13.50	27.50	48.00	2	25	35	3	1	0					0.00	0.00
O0126	12.16	83	31	33.82	9.50	17.96	13.00	18.34	28.00	22.55	12.49	3.17	12.50	41.00	63.00	7	23	30	3	1	0			12.16	498.56		
O0127	2.87	45	31	37.95	12.50	44.49	27.50	0.00	0.00	0.00	0.00	0.00	0.00	27.50	40.00	2	20	0	3	1	0					2.87	78.93
O1401	10.66	45	31	47.92	13.16	25.49	17.37	7.10	8.42	7.79	1.64	0.00	1.05	25.79	40.00	1	29	5	3	1	0					10.66	274.92
O1402	2.12	81	21	3.60	1.00	6.57	5.00	21.15	31.00	11.40	3.05	3.10	7.00	36.00	44.00	1	20	18	3	1	1	2.12	76.32				
O1404	11.22	19	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
O1405	26.83	85	10	32.84	11.00	15.71	10.50	3.87	5.00	34.38	8.04	1.57	7.50	15.50	34.00	1	25	33	3	1	0					26.83	415.87
O1415	1.26	62	21	2.67	1.00	9.17	7.00	8.17	13.00	14.26	2.85	1.76	4.50	20.00	25.50	1	21	21	3	1	0					0.00	0.00
pp541*	0.29	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.29	0.00
pp960*	1.20	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp963*	1.62	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.62	0.00
pp964*	9.99	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					9.99	0.00
	195.84																					**24.05**	**877.11**	**12.16**	**498.56**	**112.46**	**2,236.35**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0859	2009	69741	Training Area Infrastructure-19D/K OSUT-Upgrade Tank Trails					0.51	11.48
O0124	2009	69741	Training Area Infrastructure-19D/K OSUT-Upgrade Tank Trails	1.57	58.09				
O0126	2009	69741	Training Area Infrastructure-19D/K OSUT-Upgrade Tank Trails			0.61	25.01		
O0127	2009	69741	Training Area Infrastructure-19D/K OSUT-Upgrade Tank Trails					0.72	19.80
O1401	2009	69741	Training Area Infrastructure-19D/K OSUT-Upgrade Tank Trails					2.87	74.02
O1402	2009	69741	Training Area Infrastructure-19D/K OSUT-Upgrade Tank Trails	0.04	1.44				
O1405	2009	69741	Training Area Infrastructure-19D/K OSUT-Upgrade Tank Trails					1.87	23.87
			2009 SUB-TOTAL	**1.61**	**59.53**	**0.61**	**25.01**	**5.97**	**129.17**
M0840	2010	65557	Repair Existing Training Area Roads, Phase 1					0.96	23.04
M0859	2010	65557	Repair Existing Training Area Roads, Phase					2.81	63.23
M0860	2010	65557	Repair Existing Training Area Roads, Phase 1					0.02	0.48
M0861	2010	65557	Repair Existing Training Area Roads, Phase 1					1.74	41.76
O0124	2010	65557	Repair Existing Training Area Roads, Phase 1	4.00	148.00				
O1405	2010	65557	Repair Existing Training Area Roads, Phase 1					1.94	35.19
pp541*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.29	0.00
			2010 SUB-TOTAL	**4.00**	**148.00**	**0.00**	**0.00**	**7.76**	**163.70**
			TOTAL REMOVALS	**5.61**	**207.53**	**0.61**	**25.01**	**13.73**	**292.87**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**22.44**	**817.58**	**18.44**	**669.58**
Potentially Suitable Habitat	**11.55**	**473.55**	**11.55**	**473.55**
Future Potential Habitat	**106.49**	**2,107.18**	**98.73**	**1,943.48**
TOTAL	**140.48**	**3,398.31**	**128.72**	**3,086.61**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
42** =Upland Hardwood-Yellow Pine (managed for hardwoods)
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-186. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O01-02**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA ≥ 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0840	11.57	49	31	72.23	21.00	21.52	14.00	7.56	10.00	31.00	11.41	4.50	13.50	24.00	58.50	1	14	35	3	2	3.18	PS					11.57	277.68
M0859	22.23	61	31	84.10	23.00	23.23	16.00	4.90	6.50	17.92	3.13	1.25	4.00	22.50	49.50	1	22	13	3	2	3.43	PS					22.23	500.18
M0860	0.02	49	31	72.23	21.00	21.52	14.00	7.56	10.00	31.00	11.41	4.50	13.50	24.00	58.50	1	14	35	3	2	3.18	PS					0.02	0.48
M0861	14.12	49	31	72.23	21.00	21.52	14.00	7.56	10.00	31.00	11.41	4.50	13.50	24.00	58.50	1	14	35	3	2	3.18	PS					14.12	338.88
O0117	0.48	0	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
O0121	12.26	46	31	118.84	34.00	36.81	25.00	2.77	3.50	2.76	6.05	2.04	7.00	28.50	69.50	1	16	17	3	1	2.72	PS					12.26	349.41
O0122	4.25	81	26	12.83	4.00	17.01	12.50	14.63	22.00	7.94	6.55	2.78	8.50	34.50	47.00	2	28	23	3	1	4.32	PS					4.25	146.63
O0124	17.68	40	31	50.76	15.00	27.06	19.50	12.69	17.50	15.71	2.65	0.57	2.50	37.00	54.50	1	26	7	3	1	3.80	PS					17.68	654.16
O0125	33.01	82	42**	19.25	7.00	20.22	14.00	8.74	13.50	12.41	11.09	4.19	13.50	27.50	48.00	2	25	35	3	1	3.56	PS					0.00	0.00
O0126	12.16	83	31	33.82	9.50	17.96	13.00	18.34	28.00	22.55	12.49	3.17	12.50	41.00	63.00	7	23	30	3	1	4.01	PS			12.16	498.56		
O0127	2.87	45	31	37.95	12.50	44.49	27.50	0.00	0.00	0.00	0.00	0.00	0.00	27.50	40.00	2	20	0	3	1	3.04	PS					2.87	78.93
O1401	10.66	45	31	47.92	13.16	25.49	17.37	7.10	8.42	7.79	1.64	0.00	1.05	25.79	40.00	1	29	5	3	1	3.27	PS					10.66	274.92
O1402	2.12	81	21	3.60	1.00	6.57	5.00	21.15	31.00	11.40	3.05	3.10	7.00	36.00	44.00	1	20	18	3	1	4.47	CS	2.12	76.32				
O1404	11.22	19	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
O1405	26.83	85	10	32.84	11.00	15.71	10.50	3.87	5.00	34.38	8.04	1.57	7.50	15.50	34.00	1	25	33	3	1	3.11	PS					26.83	415.87
O1415	1.26	62	21	2.67	1.00	9.17	7.00	8.17	13.00	14.26	2.85	1.76	4.50	20.00	25.50	1	21	21	3	1	3.63	PS					0.00	0.00
pp541*	0.29	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.29	0.00
pp960*	1.20	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp963*	1.62	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.62	0.00
pp964*	9.99	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					9.99	0.00
	195.84																						**2.12**	**76.32**	**12.16**	**498.56**	**134.39**	**3,037.14**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0859	2009	69741	Training Area Infrastructure-19D/K OSUT-Upgrade Tank Trails					0.51	11.48
O0124	2009	69741	Training Area Infrastructure-19D/K OSUT-Upgrade Tank Trails					1.57	58.09
O0126	2009	69741	Training Area Infrastructure-19D/K OSUT-Upgrade Tank Trails			0.61	25.01		
O0127	2009	69741	Training Area Infrastructure-19D/K OSUT-Upgrade Tank Trails					0.72	19.80
O1401	2009	69741	Training Area Infrastructure-19D/K OSUT-Upgrade Tank Trails					2.87	74.02
O1402	2009	69741	Training Area Infrastructure-19D/K OSUT-Upgrade Tank Trails	0.04	1.44				
O1405	2009	69741	Training Area Infrastructure-19D/K OSUT-Upgrade Tank Trails					1.87	23.87
			2009 SUB-TOTAL	**0.04**	**1.44**	**0.61**	**25.01**	**7.54**	**187.26**
M0840	2010	65557	Repair Existing Training Area Roads, Phase 1					0.96	23.04
M0859	2010	65557	Repair Existing Training Area Roads, Phase 1					2.81	63.23
M0860	2010	65557	Repair Existing Training Area Roads, Phase 1					0.02	0.48
M0861	2010	65557	Repair Existing Training Area Roads, Phase 1					1.74	41.76
O0124	2010	65557	Repair Existing Training Area Roads, Phase 1					4.00	148.00
O1405	2010	65557	Repair Existing Training Area Roads, Phase 1					1.94	35.19
pp541*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.29	0.00
			2010 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**11.76**	**311.70**
			TOTAL REMOVALS	**0.04**	**1.44**	**0.61**	**25.01**	**19.30**	**498.96**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**2.08**	**74.88**	**2.08**	**74.88**
Potentially Suitable Habitat	**11.55**	**473.55**	**11.55**	**473.55**
Future Potential Habitat	**126.85**	**2,849.88**	**115.09**	**2,538.18**
TOTAL	**140.48**	**3,398.31**	**128.72**	**3,086.61**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
42** =Upland Hardwood-Yellow Pine (managed for hardwoods)
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.
Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-187. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cl **O01-02**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0840	11.57	49	31	72.23	21.00	21.52	14.00	7.56	10.00	31.00	11.41	4.50	13.50	24.00	58.50	1	14	35	3	2	0					11.57	277.68
M0859	22.23	61	31	84.10	23.00	23.23	16.00	4.90	6.50	17.92	3.13	1.25	4.00	22.50	49.50	1	22	13	3	2	0					22.23	500.18
M0860	0.02	49	31	72.23	21.00	21.52	14.00	7.56	10.00	31.00	11.41	4.50	13.50	24.00	58.50	1	14	35	3	2	0					0.02	0.48
M0861	14.12	49	31	72.23	21.00	21.52	14.00	7.56	10.00	31.00	11.41	4.50	13.50	24.00	58.50	1	14	35	3	2	0					14.12	338.88
O0117	0.48	0	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
O0121	12.26	46	31	118.84	34.00	36.81	25.00	2.77	3.50	2.76	6.05	2.04	7.00	28.50	69.50	1	16	17	3	1	0					12.26	349.41
O0122	4.25	81	26	12.83	4.00	17.01	12.50	14.63	22.00	7.94	6.55	2.78	8.50	34.50	47.00	2	28	23	3	1	1	4.25	146.63				
O0124	17.68	40	31	50.76	15.00	27.06	19.50	12.69	17.50	15.71	2.65	0.57	2.50	37.00	54.50	1	26	7	3	1	1	17.68	654.16				
O0125	33.01	82	42**	19.25	7.00	20.22	14.00	8.74	13.50	12.41	11.09	4.19	13.50	27.50	48.00	2	25	35	3	1	0					0.00	0.00
O0126	12.16	83	31	33.82	9.50	17.96	13.00	18.34	28.00	22.55	12.49	3.17	12.50	41.00	63.00	7	23	30	3	1	0			12.16	498.56		
O0127	2.87	45	31	37.95	12.50	44.49	27.50	0.00	0.00	0.00	0.00	0.00	0.00	27.50	40.00	2	20	0	3	1	0					2.87	78.93
O1401	10.66	45	31	47.92	13.16	25.49	17.37	7.10	8.42	7.79	1.64	0.00	1.05	25.79	40.00	1	29	5	3	1	0					10.66	274.92
O1402	2.12	81	21	3.60	1.00	6.57	5.00	21.15	31.00	11.40	3.05	3.10	7.00	36.00	44.00	1	20	18	3	1	1	2.12	76.32				
O1404	11.22	19	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
O1405	26.83	85	10	32.84	11.00	15.71	10.50	3.87	5.00	34.38	8.04	1.57	7.50	15.50	34.00	1	25	33	3	1	0					26.83	415.87
O1415	1.26	62	21	2.67	1.00	9.17	7.00	8.17	13.00	14.26	2.85	1.76	4.50	20.00	25.50	1	21	21	3	1	0					0.00	0.00
pp541*	0.29	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.29	0.00
pp960*	1.20	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp963*	1.62	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.62	0.00
pp964*	9.99	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					9.99	0.00
	195.84																					**24.05**	**877.11**	**12.16**	**498.56**	**112.46**	**2,236.35**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0840	2010	65557	Repair Existing Training Area Roads, Phase 1					0.96	23.04
M0859	2010	65557	Repair Existing Training Area Roads, Phase 1					3.32	74.70
M0860	2010	65557	Repair Existing Training Area Roads, Phase 1					0.02	0.48
M0861	2010	65557	Repair Existing Training Area Roads, Phase 1					1.74	41.76
O0124	2010	65557	Repair Existing Training Area Roads, Phase 1	4.45	164.65				
O1405	2010	65557	Repair Existing Training Area Roads, Phase 1					2.27	35.19
pp541*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.29	0.00
			TOTAL REMOVALS	**4.45**	**164.65**	**0.00**	**0.00**	**8.60**	**175.17**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**19.60**	**712.46**
Potentially Suitable Habitat	**12.16**	**498.56**
Future Potential Habitat	**103.86**	**2,061.18**
TOTAL	**135.62**	**3,272.20**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
42** =Upland Hardwood-Yellow Pine (managed for hardwoods)
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the ...

Appendix Table H-188. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O01-02**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0840	11.57	49	31	72.23	21.00	21.52	14.00	7.56	10.00	31.00	11.41	4.50	13.50	24.00	58.50	1	14	35	3	2	3.18	PS					11.57	277.68
M0859	22.23	61	31	84.10	23.00	23.23	16.00	4.90	6.50	17.92	3.13	1.25	4.00	22.50	49.50	1	22	13	3	2	3.43	PS					22.23	500.18
M0860	0.02	49	31	72.23	21.00	21.52	14.00	7.56	10.00	31.00	11.41	4.50	13.50	24.00	58.50	1	14	35	3	2	3.18	PS					0.02	0.48
M0861	14.12	49	31	72.23	21.00	21.52	14.00	7.56	10.00	31.00	11.41	4.50	13.50	24.00	58.50	1	14	35	3	2	3.18	PS					14.12	338.88
O0117	0.48	0	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
O0121	12.26	46	31	118.84	34.00	36.81	25.00	2.77	3.50	2.76	6.05	2.04	7.00	28.50	69.50	1	16	17	3	1	2.72	PS					12.26	349.41
O0122	4.25	81	26	12.83	4.00	17.01	12.50	14.63	22.00	7.94	6.55	2.78	8.50	34.50	47.00	2	28	23	3	1	4.32	PS					4.25	146.63
O0124	17.68	40	31	50.76	15.00	27.06	19.50	12.69	17.50	15.71	2.65	0.57	2.50	37.00	54.50	1	26	7	3	1	3.80	PS					17.68	654.16
O0125	33.01	82	42**	19.25	7.00	20.22	14.00	8.74	13.50	12.41	11.09	4.19	13.50	27.50	48.00	2	25	35	3	1	3.56	PS					0.00	0.00
O0126	12.16	83	31	33.82	9.50	17.96	13.00	18.34	28.00	22.55	12.49	3.17	12.50	41.00	63.00	7	23	30	3	1	4.01	PS			12.16	498.56		
O0127	2.87	45	31	37.95	12.50	44.49	27.50	0.00	0.00	0.00	0.00	0.00	0.00	27.50	40.00	2	20	0	3	1	3.04	PS					2.87	78.93
O1401	10.66	45	31	47.92	13.16	25.49	17.37	7.10	8.42	7.79	1.64	0.00	1.05	25.79	40.00	1	29	5	3	1	3.27	PS					10.66	274.92
O1402	2.12	81	21	3.60	1.00	6.57	5.00	21.15	31.00	11.40	3.05	3.10	7.00	36.00	44.00	1	20	18	3	1	4.47	CS	2.12	76.32				
O1404	11.22	19	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
O1405	26.83	85	10	32.84	11.00	15.71	10.50	3.87	5.00	34.38	8.04	1.57	7.50	15.50	34.00	1	25	33	3	1	3.11	PS					26.83	415.87
O1415	1.26	62	21	2.67	1.00	9.17	7.00	8.17	13.00	14.26	2.85	1.76	4.50	20.00	25.50	1	21	21	3	1	3.63	PS					0.00	0.00
pp541*	0.29	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.29	0.00
pp960*	1.20	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp963*	1.62	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.62	0.00
pp964*	9.99	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					9.99	0.00
	195.86																						**2.12**	**76.32**	**12.16**	**498.56**	**134.39**	**3,037.14**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0840	2009	69742	Northern Training Area Infrastructure					0.96	23.04
M0859	2009	69742	Northern Training Area Infrastructure					3.32	74.70
M0860	2009	69742	Northern Training Area Infrastructure					0.02	0.48
M0861	2009	69742	Northern Training Area Infrastructure					1.74	41.76
O0124	2009	69742	Northern Training Area Infrastructure					4.45	164.65
O1405	2009	69742	Northern Training Area Infrastructure					2.27	35.19
pp541*	2009	69742	Northern Training Area Infrastructure					0.29	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**13.05**	**339.82**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**2.12**	**76.32**
Potentially Suitable Habitat	**12.16**	**498.56**
Future Potential Habitat	**121.34**	**2,697.32**
TOTAL	**135.62**	**3,272.20**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
42** =Upland Hardwood-Yellow Pine (managed for hardwoods)
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-189. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O01-03**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0805	1.75	43	26	28.21	8.89	24.43	17.78	12.62	18.89	11.19	2.21	1.38	3.33	36.67	48.89	1	26	9	3	2	1	1.75	64.17				
M0806	8.40	43	22P	97.82	33.75	65.86	43.75	3.08	3.75	7.38	4.30	0.99	3.75	47.50	85.00	1	30	7	3	2	0			8.40	399.00		
M0807	5.44	43	26	98.22	22.00	3.26	2.00	1.49	2.00	0.00	0.00	0.00	0.00	4.00	26.00	1	18	0	3	2	0					5.44	21.76
M0809	1.19	43	11	3.47	1.50	11.32	7.50	6.43	9.50	25.62	3.75	0.40	3.00	17.00	21.50	1	47	19	3	2	0					1.19	20.23
M0810	0.07	43	22P	170.11	51.25	55.75	36.25	4.01	5.00	9.63	3.61	1.91	5.00	41.25	97.50	1	11	8	3	2	0			0.07	2.89		
M0811	0.54	54	31	15.10	5.00	47.25	35.00	40.36	65.00	11.19	2.84	1.96	5.00	100.00	110.00	1	3	5	3	2	1	0.54	54.00				
O0101	26.59	56	10	22.34	6.84	12.43	10.00	20.97	30.00	12.97	5.02	1.51	6.32	40.00	53.16	2	24	16	3	1	1	26.59	1,063.60				
O0103	19.90	39	31	18.87	6.00	21.13	15.00	6.22	9.00	1.11	2.89	1.74	4.50	24.00	34.50	2	29	14	3	1	0					19.90	477.60
O0104	5.76	42	21	12.29	4.50	12.76	9.50	8.78	12.00	8.79	2.69	0.88	4.00	21.50	30.00	1	21	14	3	1	0					5.76	123.84
O0219	6.57	32	31P	81.41	20.00	11.43	7.50	5.47	8.00	2.85	0.00	0.00	0.00	15.50	35.50	6	25	0	3	1	0					6.57	101.84
O0220	3.35	73	21	13.10	3.68	26.75	19.47	19.23	27.37	10.86	2.42	0.67	3.16	46.84	53.68	1	19	6	3	1	1	3.35	156.91				
O0315	0.03	39	31	42.88	12.50	25.77	18.50	14.20	19.50	0.00	0.00	0.45	0.50	38.00	51.00	1	43	1	3	1	1	0.03	1.14				
O0333	53.97	42	31	55.21	17.78	43.16	30.00	11.80	15.00	19.12	2.30	1.62	3.89	45.00	66.67	2	29	7	3	1	1	53.97	2,428.65				
O0334	0.25	19	31P	267.23	52.00	0.00	0.00	0.00	0.00	3.85	0.00	0.00	0.00	0.00	52.00	1	35	0	3	1	0					0.25	0.00
O0340	15.05	42	22	26.17	9.00	46.44	33.00	10.22	12.00	5.10	0.55	1.24	2.50	45.00	56.50	4	30	3	3	1	1			15.05	677.25		
pp533*	0.20	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.20	0.00
pp534*	0.19	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.19	0.00
pp628*	1.23	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.23	0.00
pp629*	0.01	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.01	0.00
	150.49																					**86.23**	**3,768.47**	**23.52**	**1,079.14**	**40.74**	**745.27**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0807	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.06	0.24
O0103	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					4.88	117.12
O0219	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.25	3.88
O0333	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails	1.52	68.40				
O0340	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails			3.58	161.10		
pp533*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.18	0.00
			2009 SUB-TOTAL	**1.52**	**68.40**	**3.58**	**161.10**	**5.37**	**121.24**
M0805	2010	65557	Repair Existing Training Area Roads, Phase 1	0.24	8.80				
M0806	2010	65557	Repair Existing Training Area Roads, Phase 1			0.76	36.10		
M0807	2010	65557	Repair Existing Training Area Roads, Phase 1					3.31	13.24
M0811	2010	65557	Repair Existing Training Area Roads, Phase	0.31	31.00				
O0101	2010	65557	Repair Existing Training Area Roads, Phase 1	0.44	17.60				
O0103	2010	65557	Repair Existing Training Area Roads, Phase 1					1.25	30.00
O0104	2010	65557	Repair Existing Training Area Roads, Phase 1					1.16	24.94
O0219	2010	65557	Repair Existing Training Area Roads, Phase 1					2.54	39.37
O0220	2010	65557	Repair Existing Training Area Roads, Phase 1	1.16	54.33				
O0333	2010	65557	Repair Existing Training Area Roads, Phase 1	1.42	63.90				
pp534*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.12	0.00
			2010 SUB-TOTAL	**3.57**	**175.63**	**0.76**	**36.10**	**8.38**	**107.55**
			TOTAL REMOVALS	**5.09**	**244.03**	**4.34**	**197.20**	**13.75**	**228.79**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**84.71**	**3,700.07**	**81.14**	**3,524.44**
Potentially Suitable Habitat	**19.94**	**918.04**	**19.18**	**881.94**
Future Potential Habitat	**35.37**	**624.03**	**26.99**	**516.48**
TOTAL	**140.02**	**5,242.14**	**127.31**	**4,922.86**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
11 = Longleaf Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22 = Slash Pine
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31P = Loblolly Pine Plantation

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-190. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O01-03**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0805	1.75	43	26	28.21	8.89	24.43	17.78	12.62	18.89	11.19	2.21	1.38	3.33	36.67	48.89	1	26	9	3	2	4.00	PS					1.75	64.17
M0806	8.40	43	22P	97.82	33.75	65.86	43.75	3.08	3.75	7.38	4.30	0.99	3.75	47.50	85.00	1	30	7	3	2	3.27	PS					8.40	399.00
M0807	5.44	43	26	98.22	22.00	3.26	2.00	1.49	2.00	0.00	0.00	0.00	0.00	4.00	26.00	1	18	0	3	2	2.95	PS					5.44	21.76
M0809	1.19	43	11	3.47	1.50	11.32	7.50	6.43	9.50	25.62	3.75	0.40	3.00	17.00	21.50	1	47	19	3	2	3.52	PS					1.19	20.23
M0810	0.07	43	22P	170.11	51.25	55.75	36.25	4.01	5.00	9.63	3.61	1.91	5.00	41.25	97.50	1	11	8	3	2	3.24	PS					0.07	2.89
M0811	0.54	54	31	15.10	5.00	47.25	35.00	40.36	65.00	11.19	2.84	1.96	5.00	100.00	110.00	1	3	5	3	2	4.46	PS					0.54	54.00
O0101	26.59	56	10	22.34	6.84	12.43	10.00	20.97	30.00	12.97	5.02	1.51	6.32	40.00	53.16	2	24	16	3	1	4.37	PS					26.59	1,063.60
O0103	19.90	39	31	18.87	6.00	21.13	15.00	6.22	9.00	1.11	2.89	1.74	4.50	24.00	34.50	2	29	14	3	1	3.14	PS					19.90	477.60
O0104	5.76	42	21	12.29	4.50	12.76	9.50	8.78	12.00	8.79	2.69	0.88	4.00	21.50	30.00	1	21	14	3	1	3.42	PS					5.76	123.84
O0219	6.57	32	31P	81.41	20.00	11.43	7.50	5.47	8.00	2.85	0.00	0.00	0.00	15.50	35.50	6	25	0	3	1	2.82	PS					6.57	101.84
O0220	3.35	73	21	13.10	3.68	26.75	19.47	19.23	27.37	10.86	2.42	0.67	3.16	46.84	53.68	1	19	6	3	1	4.55	CS	3.35	156.91				
O0315	0.03	39	31	42.88	12.50	25.77	18.50	14.20	19.50	0.00	0.00	0.45	0.50	38.00	51.00	1	43	1	3	1	4.01	PS					0.03	1.14
O0333	53.97	42	31	55.21	17.78	43.16	30.00	11.80	15.00	19.12	2.30	1.62	3.89	45.00	66.67	2	29	7	3	1	3.41	PS					53.97	2,428.65
O0334	0.25	19	31P	267.23	52.00	0.00	0.00	0.00	0.00	3.85	0.00	0.00	0.00	0.00	52.00	1	35	0	3	1	2.67	NH					0.25	0.00
O0340	15.05	42	22	26.17	9.00	46.44	33.00	10.22	12.00	5.10	0.55	1.24	2.50	45.00	56.50	4	30	3	3	1	3.65	PS					15.05	677.25
pp533*	0.20	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.20	0.00
pp534*	0.19	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.19	0.00
pp628*	1.23	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.23	0.00
pp629*	0.01	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.01	0.00
	150.49																						**3.35**	**156.91**	**0.00**	**0.00**	**147.14**	**5,435.97**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0807	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.06	0.24
O0103	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					4.88	117.12
O0219	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.25	3.88
O0333	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					1.52	68.40
O0340	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					3.58	161.10
pp533*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.18	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**10.47**	**350.74**
M0805	2010	65557	Repair Existing Training Area Roads, Phase 1					0.24	8.80
M0806	2010	65557	Repair Existing Training Area Roads, Phase 1					0.76	36.10
M0807	2010	65557	Repair Existing Training Area Roads, Phase 1					3.31	13.24
M0811	2010	65557	Repair Existing Training Area Roads, Phase 1					0.31	31.00
O0101	2010	65557	Repair Existing Training Area Roads, Phase 1					0.44	17.60
O0103	2010	65557	Repair Existing Training Area Roads, Phase 1					1.25	30.00
O0104	2010	65557	Repair Existing Training Area Roads, Phase 1					1.16	24.94
O0219	2010	65557	Repair Existing Training Area Roads, Phase 1					2.54	39.37
O0220	2010	65557	Repair Existing Training Area Roads, Phase 1	1.16	54.33				
O0333	2010	65557	Repair Existing Training Area Roads, Phase 1					1.42	63.90
pp534*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.12	0.00
			2010 SUB-TOTAL	**1.16**	**54.33**	**0.00**	**0.00**	**11.55**	**264.95**
			TOTAL REMOVALS	**1.16**	**54.33**	**0.00**	**0.00**	**22.02**	**615.69**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**3.35**	**156.91**	**2.19**	**102.58**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**136.67**	**5,085.23**	**125.12**	**4,820.28**
TOTAL	**140.02**	**5,242.14**	**127.31**	**4,922.86**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
11 = Longleaf Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22 = Slash Pine
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31P = Loblolly Pine Plantation

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-191. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O01-04R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0808	0.01	76	21	11.31	3.75	40.06	28.75	33.96	47.50	0.00	0.00	0.78	1.25	76.25	81.25	1	18	1	3	2	1	0.01	0.76				
M0809	0.72	43	11	3.47	1.50	11.32	7.50	6.43	9.50	25.62	3.75	0.40	3.00	17.00	21.50	1	47	19	3	2	0					0.72	12.24
M0810	7.90	43	22P	170.11	51.25	55.75	36.25	4.01	5.00	9.63	3.61	1.91	5.00	41.25	97.50	1	11	8	3	2	0			7.90	325.88		
M0811	3.92	54	31	15.10	5.00	47.25	35.00	40.36	65.00	11.19	2.84	1.96	5.00	100.00	110.00	1	3	5	3	2	1	3.92	392.00				
M0817	3.44	63	21	56.08	13.75	28.51	20.00	3.25	3.75	16.90	3.66	7.91	12.50	23.75	50.00	1	34	27	3	2	0					3.44	81.70
M0818	4.64	54	31	43.07	11.67	29.20	20.00	16.15	23.33	5.29	2.16	0.00	1.67	43.33	56.67	1	23	5	3	2	1	4.64	201.05				
M0819	13.74	45	22	98.96	27.00	51.93	34.00	3.43	4.00	15.24	1.87	0.44	1.50	38.00	66.50	6	26	4	3	2	0			13.74	522.12		
M0827	12.11	45	22P	127.64	40.00	50.58	33.50	6.85	7.50	12.18	4.35	2.30	6.00	41.00	87.00	1	5	10	3	2	0			12.11	496.51		
O0101	8.10	56	10	22.34	6.84	12.43	10.00	20.97	30.00	12.97	5.02	1.51	6.32	40.00	53.16	2	24	16	3	1	1	8.10	324.00				
O0104	27.15	42	21	12.29	4.50	12.76	9.50	8.78	12.00	8.79	2.69	0.88	4.00	21.50	30.00	1	21	14	3	1	0					27.15	583.73
O0106	38.21	95	22P	59.79	21.00	40.23	26.50	9.52	14.00	13.01	4.99	2.44	6.00	40.50	67.50	2	8	13	3	1	0			38.21	1,547.51		
O0107	3.54	59	21	13.09	4.00	30.59	23.00	13.52	17.50	4.77	3.36	1.81	5.50	40.50	50.00	1	25	10	3	1	1	3.54	143.37				
O0109	28.49	59	31	17.62	5.50	18.71	13.00	15.97	22.00	6.10	5.31	2.75	8.00	35.00	48.50	3	21	19	3	1	1	28.49	997.15				
O0110	0.30	23	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
O0113	6.09	42	22P	61.47	18.33	31.27	20.00	2.81	3.33	0.00	0.00	0.00	0.00	23.33	41.67	1	27	0	3	1	0					6.09	142.08
O0114	0.91	42	22P	77.71	26.00	44.34	28.00	3.82	5.00	1.43	1.59	1.44	2.50	33.00	61.50	2	25	6	3	1	0			0.91	30.03		
pp630*	8.89	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					8.89	0.00
pp958*	0.27	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.27	0.00
pp959*	0.98	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.98	0.00
	169.41																					**48.70**	**2,058.33**	**72.87**	**2,922.05**	**47.54**	**819.75**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0104	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.02	0.43
O0106	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails			0.77	31.19		
O0107	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails	0.75	30.38				
O0109	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails	5.43	190.05				
O0113	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					2.09	48.76
pp630*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.58	0.00
pp958*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.06	0.00
pp959*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.64	0.00
			2009 SUB-TOTAL	**6.18**	**220.43**	**0.77**	**31.19**	**3.39**	**49.19**
M0811	2010	65557	Repair Existing Training Area Roads, Phase 1	0.34	34.00				
M0819	2010	65557	Repair Existing Training Area Roads, Phase 1			4.58	174.04		
M0827	2010	65557	Repair Existing Training Area Roads, Phase 1			0.95	38.95		
O0104	2010	65557	Repair Existing Training Area Roads, Phase 1					6.11	131.37
			2010 SUB-TOTAL	**0.34**	**34.00**	**5.53**	**212.99**	**6.11**	**131.37**
			TOTAL REMOVALS	**6.52**	**254.43**	**6.30**	**244.18**	**9.50**	**180.56**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**42.52**	**1,837.90**	**42.18**	**1,803.90**
Potentially Suitable Habitat	**72.10**	**2,890.86**	**66.57**	**2,677.87**
Future Potential Habitat	**44.15**	**770.56**	**38.04**	**639.19**
TOTAL	**158.77**	**5,499.32**	**146.79**	**5,120.96**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
11 = Longleaf Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22 = Slash Pine
22P = Longleaf Pine Plantation
31 = Loblolly Pine
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-192. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O01-04R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0808	0.01	76	21	11.31	3.75	40.06	28.75	33.96	47.50	0.00	0.00	0.78	1.25	76.25	81.25	1	18	1	3	2	4.70	CS	0.01	0.76				
M0809	0.72	43	11	3.47	1.50	11.32	7.50	6.43	9.50	25.62	3.75	0.40	3.00	17.00	21.50	1	47	19	3	2	3.52	PS					0.72	12.24
M0810	7.90	43	22P	170.11	51.25	55.75	36.25	4.01	5.00	9.63	3.61	1.91	5.00	41.25	97.50	1	11	8	3	2	3.24	PS					7.90	325.88
M0811	3.92	54	31	15.10	5.00	47.25	35.00	40.36	65.00	11.19	2.84	1.96	5.00	100.00	110.00	1	3	5	3	2	4.46	PS					3.92	392.00
M0817	3.44	63	21	56.08	13.75	28.51	20.00	3.25	3.75	16.90	3.66	7.91	12.50	23.75	50.00	1	34	27	3	2	3.32	PS					3.44	81.70
M0818	4.64	54	31	43.07	11.67	29.20	20.00	16.15	23.33	5.29	2.16	0.00	1.67	43.33	56.67	1	23	5	3	2	4.43	PS					4.64	201.05
M0819	13.74	45	22	98.96	27.00	51.93	34.00	3.43	4.00	15.24	1.87	0.44	1.50	38.00	66.50	6	26	4	3	2	2.95	PS					13.74	522.12
M0827	12.11	45	22P	127.64	40.00	50.58	33.50	6.85	7.50	12.18	4.35	2.30	6.00	41.00	87.00	1	5	10	3	2	3.23	PS					12.11	496.51
O0101	8.10	56	10	22.34	6.84	12.43	10.00	20.97	30.00	12.97	5.02	1.51	6.32	40.00	53.16	2	24	16	3	1	4.37	PS					8.10	324.00
O0104	27.15	42	21	12.29	4.50	12.76	9.50	8.78	12.00	8.79	2.69	0.88	4.00	21.50	30.00	1	21	14	3	1	3.42	PS					27.15	583.73
O0106	38.21	95	22P	59.79	21.00	40.23	26.50	9.52	14.00	13.01	4.99	2.44	6.00	40.50	67.50	2	8	13	3	1	3.70	PS					38.21	1,547.51
O0107	3.54	59	21	13.09	4.00	30.59	23.00	13.52	17.50	4.77	3.36	1.81	5.50	40.50	50.00	1	25	10	3	1	4.15	PS					3.54	143.37
O0109	28.49	59	31	17.62	5.50	18.71	13.00	15.97	22.00	6.10	5.31	2.75	8.00	35.00	48.50	3	21	19	3	1	4.18	PS					28.49	997.15
O0110	0.30	23	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
O0113	6.09	42	22P	61.47	18.33	31.27	20.00	2.81	3.33	0.00	0.00	0.00	0.00	23.33	41.67	1	27	0	3	1	2.95	PS					6.09	142.08
O0114	0.91	42	22P	77.71	26.00	44.34	28.00	3.82	5.00	1.43	1.59	1.44	2.50	33.00	61.50	2	25	6	3	1	3.17	PS					0.91	30.03
pp630*	8.89	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					8.89	0.00
pp958*	0.27	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.27	0.00
pp959*	0.98	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.98	0.00
	169.41																						**0.01**	**0.76**	**0.00**	**0.00**	**169.10**	**5,799.37**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0104	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.02	0.43
O0106	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.77	31.19
O0107	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.75	30.38
O0109	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					5.43	190.05
O0113	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					2.09	48.76
pp630*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.58	0.00
pp958*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.06	0.00
pp959*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.64	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**10.34**	**300.81**
M0811	2010	65557	Repair Existing Training Area Roads, Phase 1					0.34	34.00
M0819	2010	65557	Repair Existing Training Area Roads, Phase 1					4.58	174.04
M0827	2010	65557	Repair Existing Training Area Roads, Phase 1					0.95	38.95
O0104	2010	65557	Repair Existing Training Area Roads, Phase 1					6.11	131.37
			2010 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**11.98**	**378.36**
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**22.32**	**679.17**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**0.01**	**0.76**	**0.01**	**0.76**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**158.76**	**5,498.56**	**146.78**	**5,120.20**
TOTAL	**158.77**	**5,499.32**	**146.79**	**5,120.96**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
11 = Longleaf Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22 = Slash Pine
22P = Longleaf Pine Plantation
31 = Loblolly Pine
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-193. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O02-01R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
N0137	5.02	45	31	31.26	9.52	8.94	6.19	15.83	28.10	3.53	9.36	3.46	10.95	34.29	54.76	1	33	34	3	1	1	5.02	172.14				
N0141	1.39	69	21	2.63	0.50	5.35	4.00	19.26	36.00	10.87	5.89	1.92	6.50	40.00	47.00	1	25	24	3	1	1	1.39	55.60				
O0209	4.07	39	66**	15.70	3.68	10.08	7.37	5.86	10.53	12.66	13.24	2.13	11.58	17.89	33.16	2	25	49	3	1	0					0.00	0.00
O0210	59.07	50	31	17.16	5.00	18.22	13.00	9.77	16.00	10.92	2.29	0.34	2.00	29.00	36.00	2	27	9	3	1	0					59.07	1,713.03
O0214	56.85	92	21	5.53	2.00	18.10	12.00	20.25	30.50	13.15	1.31	0.29	1.50	42.50	46.00	6	18	4	3	1	0			56.85	2,416.13		
O0215	4.45	35	13	34.04	10.00	34.52	22.50	8.18	10.00	0.00	0.00	1.88	2.50	32.50	45.00	8	33	4	3	1	0			4.45	144.63		
O0219	11.40	32	31P	81.41	20.00	11.43	7.50	5.47	8.00	2.85	0.00	0.00	0.00	15.50	35.50	6	25	0	3	1	0					11.40	176.70
O0220	35.89	73	21	13.10	3.68	26.75	19.47	19.23	27.37	10.86	2.42	0.67	3.16	46.84	53.68	1	19	6	3	1	1	35.89	1,681.09				
O0223	0.03	73	31	13.02	3.50	12.63	9.00	21.56	34.50	20.50	3.89	2.46	6.00	43.50	53.00	2	21	16	3	1	1	0.03	1.31				
O0315	5.17	39	31	42.88	12.50	25.77	18.50	14.20	19.50	0.00	0.00	0.45	0.50	38.00	51.00	1	43	1	3	1	1	5.17	196.46				
O0333	7.19	42	31	55.21	17.78	43.16	30.00	11.80	15.00	19.12	2.30	1.62	3.89	45.00	66.67	2	29	7	3	1	1	7.19	323.55				
pp532*	1.59	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.59	0.00
pp626*	2.30	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.30	0.00
pp627*	5.85	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.85	0.00
pp628*	0.72	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.72	0.00
pp750*	18.72	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					18.72	0.00
pp751*	3.91	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.91	0.00
	223.62																					**54.69**	**2,430.15**	**61.30**	**2,560.76**	**103.56**	**1,889.73**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
N0137	2010	65557	Repair Existing Training Area Roads, Phase 1	2.19	75.10				
N0141	2010	65557	Repair Existing Training Area Roads, Phase 1	0.52	20.80				
O0210	2010	65557	Repair Existing Training Area Roads, Phase 1					2.37	68.73
O0214	2010	65557	Repair Existing Training Area Roads, Phase 1			1.09	46.33		
O0215	2010	65557	Repair Existing Training Area Roads, Phase 1			0.73	23.73		
O0219	2010	65557	Repair Existing Training Area Roads, Phase 1					0.35	5.43
O0220	2010	65557	Repair Existing Training Area Roads, Phase 1	1.33	62.30				
O0315	2010	65557	Repair Existing Training Area Roads, Phase 1	1.80	68.40				
O0333	2010	65557	Repair Existing Training Area Roads, Phase 1	1.98	89.10				
pp532*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.84	0.00
pp627*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.10	0.00
pp750*	2010	65557	Repair Existing Training Area Roads, Phase 1					3.19	0.00
pp751*	2010	65557	Repair Existing Training Area Roads, Phase 1					1.58	0.00
			TOTAL REMOVALS	**7.82**	**315.70**	**1.82**	**70.06**	**8.43**	**74.16**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**46.87**	**2,114.45**
Potentially Suitable Habitat	**59.48**	**2,490.70**
Future Potential Habitat	**95.13**	**1,815.57**
TOTAL	**201.48**	**6,420.72**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
31P = Loblolly Pine Plantation
66** = Oak-Hickory (managed for hardwoods)

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-194. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O02-01R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
N0137	5.02	45	31	31.26	9.52	8.94	6.19	15.83	28.10	3.53	9.36	3.46	10.95	34.29	54.76	1	33	34	3	1	3.99	PS					5.02	172.14
N0141	1.39	69	21	2.63	0.50	5.35	4.00	19.26	36.00	10.87	5.89	1.92	6.50	40.00	47.00	1	25	24	3	1	4.46	CS	1.39	55.60				
O0209	4.07	39	66**	15.70	3.68	10.08	7.37	5.86	10.53	12.66	13.24	2.13	11.58	17.89	33.16	2	25	49	3	1	3.04	PS					0.00	0.00
O0210	59.07	50	31	17.16	5.00	18.22	13.00	9.77	16.00	10.92	2.29	0.34	2.00	29.00	36.00	2	27	9	3	1	3.96	PS					59.07	1,713.03
O0214	56.85	92	21	5.53	2.00	18.10	12.00	20.25	30.50	13.15	1.31	0.29	1.50	42.50	46.00	6	18	4	3	1	4.32	PS			56.85	2,416.13		
O0215	4.45	35	13	34.04	10.00	34.52	22.50	8.18	10.00	0.00	0.00	1.88	2.50	32.50	45.00	8	33	4	3	1	3.09	PS					4.45	144.63
O0219	11.40	32	31P	81.41	20.00	11.43	7.50	5.47	8.00	2.85	0.00	0.00	0.00	15.50	35.50	6	25	0	3	1	2.82	PS					11.40	176.70
O0220	35.89	73	21	13.10	3.68	26.75	19.47	19.23	27.37	10.86	2.42	0.67	3.16	46.84	53.68	1	19	6	3	1	4.55	CS	35.89	1,681.09				
O0223	0.03	73	31	13.02	3.50	12.63	9.00	21.56	34.50	20.50	3.89	2.46	6.00	43.50	53.00	2	21	16	3	1	4.58	CS	0.03	1.31				
O0315	5.17	39	31	42.88	12.50	25.77	18.50	14.20	19.50	0.00	0.00	0.45	0.50	38.00	51.00	1	43	1	3	1	4.01	PS					5.17	196.46
O0333	7.19	42	31	55.21	17.78	43.16	30.00	11.80	15.00	19.12	2.30	1.62	3.89	45.00	66.67	2	29	7	3	1	3.41	PS					7.19	323.55
pp532*	1.59	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.59	0.00
pp626*	2.30	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.30	0.00
pp627*	5.85	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					5.85	0.00
pp628*	0.72	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.72	0.00
pp750*	18.72	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					18.72	0.00
pp751*	3.91	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.91	0.00
	223.62																						**37.31**	**1,738.00**	**56.85**	**2,416.13**	**125.39**	**2,726.51**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
N0137	2010	65557	Repair Existing Training Area Roads, Phase 1					2.19	75.10
N0141	2010	65557	Repair Existing Training Area Roads, Phase 1	0.52	20.80				
O0210	2010	65557	Repair Existing Training Area Roads, Phase 1					2.37	68.73
O0214	2010	65557	Repair Existing Training Area Roads, Phase 1			1.09	46.33		
O0215	2010	65557	Repair Existing Training Area Roads, Phase 1					0.73	23.73
O0219	2010	65557	Repair Existing Training Area Roads, Phase 1					0.35	5.43
O0220	2010	65557	Repair Existing Training Area Roads, Phase 1	1.33	62.30				
O0315	2010	65557	Repair Existing Training Area Roads, Phase 1					1.80	68.40
O0333	2010	65557	Repair Existing Training Area Roads, Phase 1					1.98	89.10
pp532*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.84	0.00
pp627*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.10	0.00
pp750*	2010	65557	Repair Existing Training Area Roads, Phase 1					3.19	0.00
pp751*	2010	65557	Repair Existing Training Area Roads, Phase 1					1.58	0.00
			2009 SUB-TOTAL	**1.85**	**83.10**	**1.09**	**46.33**	**15.13**	**330.49**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**35.46**	**1,654.90**
Potentially Suitable Habitat	**55.76**	**2,369.80**
Future Potential Habitat	**110.26**	**2,396.02**
TOTAL	**201.48**	**6,420.72**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
31P = Loblolly Pine Plantation
66* = Oak-Hickory (managed for hardwoods)

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-195. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O03-01, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0101	13.04	56	10	22.34	6.84	12.43	10.00	20.97	30.00	12.97	5.02	1.51	6.32	40.00	53.16	2	24	16	3	1	1	13.04	521.60				
O0102	31.33	79	21	9.49	3.50	14.09	10.50	12.03	17.00	20.54	4.12	1.60	5.50	27.50	36.50	1	21	18	3	1	0					31.33	861.58
O0103	10.34	39	31	18.87	6.00	21.13	15.00	6.22	9.00	1.11	2.89	1.74	4.50	24.00	34.50	2	29	14	3	1	0					10.34	248.16
O0107	3.64	59	21	13.09	4.00	30.59	23.00	13.52	17.50	4.77	3.36	1.81	5.50	40.50	50.00	1	25	10	3	1	1	3.64	147.42				
O0315	0.22	39	31	42.88	12.50	25.77	18.50	14.20	19.50	0.00	0.00	0.45	0.50	38.00	51.00	1	43	1	3	1	1	0.00	0.00				
O0326	20.27	40	10	31.81	9.00	19.49	13.00	8.12	12.50	26.74	5.21	1.88	6.00	25.50	40.50	6	19	20	3	1	0					0.00	0.00
O0333	6.93	42	31	55.21	17.78	43.16	30.00	11.80	15.00	19.12	2.30	1.62	3.89	45.00	66.67	2	29	7	3	1	1	0.00	0.00				
O0334	28.38	19	31P	267.23	52.00	0.00	0.00	0.00	0.00	3.85	0.00	0.00	0.00	0.00	52.00	1	35	0	3	1	0					0.00	0.00
O0340	2.82	42	22	26.17	9.00	46.44	33.00	10.22	12.00	5.10	0.55	1.24	2.50	45.00	56.50	4	30	3	3	1	0			2.82	126.90		
O0342	26.77	86	21	10.10	3.00	8.21	6.00	19.84	29.00	14.41	5.03	3.66	9.50	35.00	47.50	7	25	24	3	1	0			26.77	936.95		
pp629*	5.36	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.36	0.00
	149.10																					**16.68**	**669.02**	**29.59**	**1,063.85**	**47.03**	**1,109.74**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0101	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails	1.00	40.00				
O0102	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					3.56	97.90
O0103	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					1.10	26.40
O0340	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails			0.17	7.65		
O0342	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails			4.57	159.95		
pp629*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.88	0.00
			TOTAL REMOVALS	**1.00**	**40.00**	**4.74**	**167.60**	**5.54**	**124.30**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**15.68**	**629.02**
Potentially Suitable Habitat	**24.85**	**896.25**
Future Potential Habitat	**41.49**	**985.44**
TOTAL	**82.02**	**2,510.71**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22 = Slash Pine
31 = Loblolly Pine
31P = Loblolly Pine Plantation

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-196. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O03-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0101	13.04	56	10	22.34	6.84	12.43	10.00	20.97	30.00	12.97	5.02	1.51	6.32	40.00	53.16	2	24	16	3	1	4.37	PS					13.04	521.60
O0102	31.33	79	21	9.49	3.50	14.09	10.50	12.03	17.00	20.54	4.12	1.60	5.50	27.50	36.50	1	21	18	3	1	3.98	PS					31.33	861.58
O0103	10.34	39	31	18.87	6.00	21.13	15.00	6.22	9.00	1.11	2.89	1.74	4.50	24.00	34.50	2	29	14	3	1	3.14	PS					10.34	248.16
O0107	3.64	59	21	13.09	4.00	30.59	23.00	13.52	17.50	4.77	3.36	1.81	5.50	40.50	50.00	1	25	10	3	1	4.15	PS					3.64	147.42
O0315	0.22	39	31	42.88	12.50	25.77	18.50	14.20	19.50	0.00	0.00	0.45	0.50	38.00	51.00	1	43	1	3	1	4.01	PS					0.00	0.00
O0326	20.27	40	10	31.81	9.00	19.49	13.00	8.12	12.50	26.74	5.21	1.88	6.00	25.50	40.50	6	19	20	3	1	3.00	PS					0.00	0.00
O0333	6.93	42	31	55.21	17.78	43.16	30.00	11.80	15.00	19.12	2.30	1.62	3.89	45.00	66.67	2	29	7	3	1	3.41	PS					0.00	0.00
O0334	28.38	19	31P	267.23	52.00	0.00	0.00	0.00	0.00	3.85	0.00	0.00	0.00	0.00	52.00	1	35	0	3	1	2.67	NH					0.00	0.00
O0340	2.82	42	22	26.17	9.00	46.44	33.00	10.22	12.00	5.10	0.55	1.24	2.50	45.00	56.50	4	30	3	3	1	3.65	PS					2.82	126.90
O0342	26.77	86	21	10.10	3.00	8.21	6.00	19.84	29.00	14.41	5.03	3.66	9.50	35.00	47.50	7	25	24	3	1	4.06	PS			26.77	936.95		
pp629*	5.36	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					5.36	0.00
	149.10																						**0.00**	**0.00**	**26.77**	**936.95**	**66.53**	**1,905.66**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0101	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					1.00	40.00
O0102	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					3.56	97.90
O0103	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					1.10	26.40
O0340	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.17	7.65
O0342	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails			4.57	159.95		
pp629*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.88	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**4.57**	**159.95**	**6.71**	**171.95**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**22.20**	**777.00**
Future Potential Habitat	**59.82**	**1,733.71**
SUB-TOTAL	**82.02**	**2,510.71**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22 = Slash Pine
31 = Loblolly Pine
31P = Loblolly Pine Plantation

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-197. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O03-02 Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
N0101	6.72	75	21	9.55	3.50	8.65	6.00	13.65	23.50	1.43	1.27	0.78	2.00	29.50	35.00	5	28	8	3	1	0					6.72	198.24
N0107	3.48	63	21	13.22	4.44	14.33	11.11	11.60	22.22	5.47	2.08	1.60	4.44	33.33	42.22	2	39	12	3	1	1	3.48	115.99				
N0109	8.77	63	22P	2.63	1.11	31.35	22.22	12.58	17.78	2.36	5.16	0.00	3.33	40.00	44.44	2	41	11	3	1	1	8.77	350.80				
O0301	45.67	80	26	7.97	2.00	12.80	9.50	20.61	30.00	2.82	0.00	0.45	0.50	39.50	42.00	1	33	1	3	1	1	45.67	1,803.97				
O0303	34.03	94	21	14.69	4.50	12.74	9.50	16.77	26.50	10.95	0.00	0.00	0.00	36.00	40.50	1	35	0	3	1	1	34.03	1,225.08				
O0305	1.25	46	31	32.21	9.00	26.95	19.50	17.47	26.00	17.14	2.81	0.77	3.50	45.50	58.00	1	28	7	3	1	1	1.25	56.88				
O0306	11.07	47	22P	43.22	14.50	24.51	17.00	9.91	12.50	5.94	0.00	0.00	0.00	29.50	44.00	5	30	0	3	1	0					11.07	326.57
O0513	5.70	66	31	45.34	14.00	31.36	21.00	20.67	30.50	9.77	0.00	0.83	1.00	51.50	66.50	1	22	2	3	1	1	5.70	293.55				
O0527	10.76	66	31	29.99	7.50	4.99	3.50	4.63	8.00	5.02	1.83	1.06	2.50	11.50	21.50	1	27	23	3	1	0					10.76	123.74
O0529	6.39	66	21	8.87	2.63	21.83	14.74	20.40	34.74	1.51	1.75	0.32	1.58	49.47	53.68	2	33	5	3	1	1	6.39	316.11				
O0530	0.02	55	21	10.21	2.00	12.76	9.50	17.25	27.50	1.93	0.00	0.00	0.00	37.00	39.00	1	29	0	3	1	1	0.02	0.74				
O0550	11.11	66	21	8.87	2.63	21.83	14.74	20.40	34.74	1.50	1.75	0.32	1.58	49.48	53.69	2	33	5	3	1	1	11.11	549.72				
pp343*	1.92	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.92	0.00
pp374*	6.59	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					6.59	0.00
pp695*	1.28	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.28	0.00
pp807*	7.43	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					7.43	0.00
pp808*	1.27	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.27	0.00
	163.46																					**116.42**	**4,712.84**	**0.00**	**0.00**	**47.04**	**648.55**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0301	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails	6.84	270.18				
O0303	2009	65036	Access Road for Basic 10M-25M Firing Range (Z2)	0.26	9.36				
O0305	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails	0.03	1.37				
O0306	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					3.65	107.68
O0527	2009	65554	Construct Training Area Roads, Paved					3.75	43.13
O0529	2009	65554	Construct Training Area Roads, Paved	1.14	56.40				
O0550	2009	65554	Construct Training Area Roads, Paved	1.11	54.92				
O0550	2009	65036	Access Road for Basic 10M-25M Firing Range (Z2)	0.16	7.92				
pp343*	2009	65554	Construct Training Area Roads, Paved					0.97	0.00
pp808*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.23	0.00
			2009 SUB-TOTAL	**9.54**	**400.15**	**0.00**	**0.00**	**8.60**	**150.81**
N0101	2010	65557	Repair Existing Training Area Roads, Phase 1					1.02	30.09
N0109	2010	65557	Repair Existing Training Area Roads, Phase 1	2.14	85.60				
O0301	2010	65557	Repair Existing Training Area Roads, Phase 1	2.91	114.95				
O0303	2010	65557	Repair Existing Training Area Roads, Phase 1	2.42	87.12				
O0513	2010	65557	Repair Existing Training Area Roads, Phase 1	2.01	103.52				
O0527	2010	65557	Repair Existing Training Area Roads, Phase 1					1.48	17.02
O0530	2010	65557	Repair Existing Training Area Roads, Phase 1	0.02	0.74				
O0550	2010	65557	Repair Existing Training Area Roads, Phase 1	1.73	85.60				
pp808*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.28	0.00
			2010 SUB-TOTAL	**11.23**	**477.53**	**0.00**	**0.00**	**2.78**	**47.11**
			TOTAL REMOVALS	**20.77**	**877.68**	**0.00**	**0.00**	**11.38**	**197.92**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**106.88**	**4,312.69**	**95.65**	**3,835.16**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**38.44**	**497.74**	**35.66**	**450.63**
TOTAL	**145.32**	**4,810.43**	**131.31**	**4,285.79**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-198. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O03-02**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
N0101	6.72	75	21	9.55	3.50	8.65	6.00	13.65	23.50	1.43	1.27	0.78	2.00	29.50	35.00	5	28	8	3	1	4.16	PS					6.72	198.24
N0107	3.48	63	21	13.22	4.44	14.33	11.11	11.60	22.22	5.47	2.08	1.60	4.44	33.33	42.22	2	39	12	3	1	4.33	PS					3.48	115.99
N0109	8.77	63	22P	2.63	1.11	31.35	22.22	12.58	17.78	2.36	5.16	0.00	3.33	40.00	44.44	2	41	11	3	1	4.34	PS					8.77	350.80
O0301	45.67	80	26	7.97	2.00	12.80	9.50	20.61	30.00	2.82	0.00	0.45	0.50	39.50	42.00	1	33	1	3	1	4.70	CS	45.67	1,803.97				
O0303	34.03	94	21	14.69	4.50	12.74	9.50	16.77	26.50	10.95	0.00	0.00	0.00	36.00	40.50	1	35	0	3	1	4.54	PS					34.03	1,225.08
O0305	1.25	46	31	32.21	9.00	26.95	19.50	17.47	26.00	17.14	2.81	0.77	3.50	45.50	58.00	1	28	7	3	1	4.19	PS					1.25	56.88
O0306	11.07	47	22P	43.22	14.50	24.51	17.00	9.91	12.50	5.94	0.00	0.00	0.00	29.50	44.00	5	30	0	3	1	3.48	PS					11.07	326.57
O0513	5.70	66	31	45.34	14.00	31.36	21.00	20.67	30.50	9.77	0.00	0.83	1.00	51.50	66.50	1	22	2	3	1	4.57	PS			5.70	293.55		
O0527	10.76	66	31	29.99	7.50	4.99	3.50	4.63	8.00	5.02	1.83	1.06	2.50	11.50	21.50	1	27	23	3	1	3.20	PS					10.76	123.74
O0529	6.39	66	21	8.87	2.63	21.83	14.74	20.40	34.74	1.51	1.75	0.32	1.58	49.47	53.68	2	33	5	3	1	4.75	CS	6.39	316.11				
O0530	0.02	55	21	10.21	2.00	12.76	9.50	17.25	27.50	1.93	0.00	0.00	0.00	37.00	39.00	1	29	0	3	1	4.30	PS					0.02	0.74
O0550	11.11	66	21	8.87	2.63	21.83	14.74	20.40	34.74	1.50	1.75	0.32	1.58	49.48	53.69	2	33	5	3	1	4.75	CS	11.11	549.72				
pp343*	1.92	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.92	0.00
pp374*	6.59	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					6.59	0.00
pp695*	1.28	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.28	0.00
pp807*	7.43	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					7.43	0.00
pp808*	1.27	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.27	0.00
	163.46																						**63.17**	**2,669.80**	**5.70**	**293.55**	**94.59**	**2,398.04**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0301	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails	6.84	270.18				
O0303	2009	65036	Access Road for Basic 10M-25M Firing Range (Z2)					0.26	9.36
O0305	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.03	1.37
O0306	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					3.65	107.68
O0527	2009	65554	Construct Training Area Roads, Paved					3.75	43.13
O0529	2009	65554	Construct Training Area Roads, Paved	1.14	56.40				
O0550	2009	65554	Construct Training Area Roads, Paved	1.11	54.92				
O0550	2009	65036	Access Road for Basic 10M-25M Firing Range (Z2)	0.16	7.92				
pp343*	2009	65554	Construct Training Area Roads, Paved					0.97	0.00
pp808*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.23	0.00
			2009 SUB-TOTAL	**9.25**	**389.42**	**0.00**	**0.00**	**8.89**	**161.54**
N0101	2010	65557	Repair Existing Training Area Roads, Phase 1					1.02	30.09
N0109	2010	65557	Repair Existing Training Area Roads, Phase 1					2.14	85.60
O0301	2010	65557	Repair Existing Training Area Roads, Phase 1	2.91	114.95				
O0303	2010	65557	Repair Existing Training Area Roads, Phase 1					2.42	87.12
O0513	2010	65557	Repair Existing Training Area Roads, Phase 1			2.01	103.52		
O0527	2010	65557	Repair Existing Training Area Roads, Phase 1					1.48	17.02
O0530	2010	65557	Repair Existing Training Area Roads, Phase 1					0.02	0.74
O0550	2010	65557	Repair Existing Training Area Roads, Phase 1	1.73	85.60				
pp808*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.28	0.00
			2010 SUB-TOTAL	**4.64**	**200.55**	**2.01**	**103.52**	**7.36**	**220.57**
			TOTAL REMOVALS	**13.89**	**589.97**	**2.01**	**103.52**	**16.25**	**382.11**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**53.92**	**2,280.38**	**49.28**	**2,079.83**
Potentially Suitable Habitat	**5.70**	**293.55**	**3.69**	**190.03**
Future Potential Habitat	**85.70**	**2,236.50**	**78.34**	**2,015.93**
TOTAL	**145.32**	**4,810.43**	**131.31**	**4,285.79**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-199. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O03-03**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0314	7.87	42	22P	25.52	9.50	29.95	20.50	8.34	10.50	3.91	0.00	0.28	0.50	31.00	41.00	1	32	1	3	1	1	0.00	0.00				
O0327	7.63	45	31	26.57	7.00	19.70	15.50	18.48	25.50	2.10	1.33	0.46	1.50	41.00	49.50	2	32	4	3	1	1	0.00	0.00				
O0332	22.41	76	31	3.71	1.50	22.98	17.50	23.89	34.50	2.55	0.94	0.00	0.50	52.00	54.00	3	27	2	3	1	1	22.41	1,165.32				
O0336	15.36	20	21	23.90	6.50	22.37	17.00	16.40	22.50	3.59	1.36	1.58	3.00	39.50	49.00	2	39	7	3	1	0					15.36	606.72
O0338	8.45	82	21	14.70	4.50	13.42	10.00	16.75	26.50	3.75	4.51	0.25	3.50	36.50	44.50	2	35	14	3	1	1	8.45	308.43				
O0409	17.12	42	26	22.84	7.50	17.97	13.00	6.54	8.50	2.34	1.64	1.63	3.50	21.50	32.50	1	29	12	3	1	0					17.12	368.08
O0416	1.79	49	31	22.04	7.50	40.50	29.50	16.25	20.00	1.24	5.31	2.28	7.00	49.50	64.00	1	20	12	3	1	1	1.79	88.61				
O0417	0.63	49	21	26.93	6.50	15.45	11.00	11.58	17.00	11.69	0.00	1.63	2.00	28.00	36.50	5	24	6	3	1	0					0.63	17.64
O0421	13.17	63	21	23.69	5.71	17.07	12.38	14.24	21.43	0.00	0.00	0.46	0.48	33.81	40.00	1	36	1	3	1	1	13.17	445.28				
O0426	5.20	11	21P	16.81	4.00	10.83	8.00	3.55	5.00	10.37	3.69	3.42	8.00	13.00	25.00	4	28	33	3	1	0					5.20	67.60
O0426	10.50	11	21PU	16.81	4.00	10.83	8.00	3.55	5.00	10.37	3.69	3.42	8.00	13.00	25.00	4	28	33	3	1	0					10.50	136.50
O0428	2.28	56	25	12.64	4.50	28.99	20.50	5.61	6.50	2.55	0.00	0.00	0.00	27.00	31.50	1	36	0	3	1	0					2.28	61.56
O0429	0.51	62	26P	30.91	9.50	16.50	12.50	11.19	15.00	13.49	1.96	0.50	2.50	27.50	39.50	1	28	8	3	1	0					0.51	14.03
pp430*	1.78	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.78	0.00
pp459*	25.39	14	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					25.39	0.00
pp487*	27.50	19	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					27.50	0.00
pp488*	9.69	19	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					9.69	0.00
pp810*	0.64	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.64	0.00
	177.92																					**45.82**	**2,007.64**	**0.00**	**0.00**	**116.60**	**1,272.13**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0332	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails	4.41	229.32				
O0336	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.98	38.71
O0409	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.33	7.10
pp430*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.38	0.00
pp459*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					3.76	0.00
pp810*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.39	0.00
			2009 SUB-TOTAL	**4.41**	**229.32**	**0.00**	**0.00**	**5.84**	**45.81**
O0332	2010	65557	Repair Existing Training Area Roads, Phase 1	1.13	58.76				
O0338	2010	65557	Repair Existing Training Area Roads, Phase 1	3.01	109.87				
O0409	2010	65557	Repair Existing Training Area Roads, Phase 1					3.86	82.99
O0426	2010	65557	Repair Existing Training Area Roads, Phase 1					2.80	36.40
pp459*	2010	65557	Repair Existing Training Area Roads, Phase					2.65	0.00
			2010 SUB-TOTAL	**4.14**	**168.63**	**0.00**	**0.00**	**9.31**	**119.39**
			TOTAL REMOVALS	**8.55**	**397.95**	**0.00**	**0.00**	**15.15**	**165.20**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**41.41**	**1,778.32**	**37.27**	**1,609.69**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**110.76**	**1,226.32**	**101.45**	**1,106.93**
TOTAL	**152.17**	**3,004.64**	**138.72**	**2,716.62**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21PU = Longleaf Pine Plantation Underplanted
22P = Slash Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
26P = Mixed Pine-Longleaf Plantation
31 = Loblolly Pine

* Note: No pine data was taken for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-200. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O03-03**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0314	7.87	42	22P	25.52	9.50	29.95	20.50	8.34	10.50	3.91	0.00	0.28	0.50	31.00	41.00	1	32	1	3	1	3.62	PS					7.87	243.97
O0327	7.63	45	31	26.57	7.00	19.70	15.50	18.48	25.50	2.10	1.33	0.46	1.50	41.00	49.50	2	32	4	3	1	4.44	PS					7.63	312.83
O0332	22.41	76	31	3.71	1.50	22.98	17.50	23.89	34.50	2.55	0.94	0.00	0.50	52.00	54.00	3	27	2	3	1	4.65	CS	22.41	1,165.32				
O0336	15.36	20	21	23.90	6.50	22.37	17.00	16.40	22.50	3.59	1.36	1.58	3.00	39.50	49.00	2	39	7	3	1	3.98	NH					15.36	606.72
O0338	8.45	82	21	14.70	4.50	13.42	10.00	16.75	26.50	3.75	4.51	0.25	3.50	36.50	44.50	2	35	14	3	1	4.48	PS					8.45	308.43
O0409	17.12	42	26	22.84	7.50	17.97	13.00	6.54	8.50	2.34	1.64	1.63	3.50	21.50	32.50	1	29	12	3	1	3.27	PS					17.12	368.08
O0416	1.79	49	31	22.04	7.50	40.50	29.50	16.25	20.00	1.24	5.31	2.28	7.00	49.50	64.00	1	20	12	3	1	4.04	PS					1.79	88.61
O0417	0.63	49	21	26.93	6.50	15.45	11.00	11.58	17.00	11.69	0.00	1.63	2.00	28.00	36.50	5	24	6	3	1	3.57	PS					0.63	17.64
O0421	13.17	63	21	23.69	5.71	17.07	12.38	14.24	21.43	0.00	0.00	0.46	0.48	33.81	40.00	1	36	1	3	1	4.53	PS					13.17	445.28
O0426	5.20	11	21P	16.81	4.00	10.83	8.00	3.55	5.00	10.37	3.69	3.42	8.00	13.00	25.00	4	28	33	3	1	2.50	NH					5.20	67.60
O0426	10.50	11	21PU	16.81	4.00	10.83	8.00	3.55	5.00	10.37	3.69	3.42	8.00	13.00	25.00	4	28	33	3	1	2.50	NH					10.50	136.50
O0428	2.28	56	25	12.64	4.50	28.99	20.50	5.61	6.50	2.55	0.00	0.00	0.00	27.00	31.50	1	36	0	3	1	3.63	PS					2.28	61.56
O0429	0.51	62	26P	30.91	9.50	16.50	12.50	11.19	15.00	13.49	1.96	0.50	2.50	27.50	39.50	1	28	8	3	1	4.08	PS					0.51	14.03
pp430*	1.78	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.78	0.00
pp459*	25.39	14	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					25.39	0.00
pp487*	27.50	19	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					27.50	0.00
pp488*	9.69	19	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					9.69	0.00
pp810*	0.64	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.64	0.00
	177.92																						**22.41**	**1,165.32**	**0.00**	**0.00**	**155.51**	**2,671.25**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0332	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails	4.41	229.32				
O0336	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.98	38.71
O0409	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.33	7.10
pp430*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.38	0.00
pp459*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					3.76	0.00
pp810*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.39	0.00
			2009 SUB-TOTAL	**4.41**	**229.32**	**0.00**	**0.00**	**5.84**	**45.81**
O0332	2010	65557	Repair Existing Training Area Roads, Phase 1	1.13	58.76				
O0338	2010	65557	Repair Existing Training Area Roads, Phase 1					3.01	109.87
O0409	2010	65557	Repair Existing Training Area Roads, Phase 1					3.86	82.99
O0426	2010	65557	Repair Existing Training Area Roads, Phase 1					2.80	36.40
pp459*	2010	65557	Repair Existing Training Area Roads, Phase 1					2.65	0.00
			2010 SUB-TOTAL	**1.13**	**58.76**	**0.00**	**0.00**	**12.32**	**229.26**
			TOTAL REMOVALS	**5.54**	**288.08**	**0.00**	**0.00**	**18.16**	**275.07**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**18.00**	**936.00**	**16.87**	**877.24**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**149.67**	**2,625.44**	**137.35**	**2,396.18**
TOTAL	**167.67**	**3,561.44**	**154.22**	**3,273.42**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21PU = Longleaf Pine Plantation Underplanted
22P = Slash Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
26P = Mixed Pine-Longleaf Plantation
31 = Loblolly Pine

* Note: No pine data was taken for pine plantation stands less than 30 years old.

APPENDIX H

RED-COCKADED WOODPECKER (RCW) FORAGING ANALYSIS TABLES FOR THE STANDARD FOR MANAGED STABILITY (SMS) AND RECOVERY STANDARDS (RS), ALTERNATIVES A AND B, MANEUVER CENTER OF EXCELLENCE PROJECTS

Appendix Table H-201. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O03-04**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0327	1.95	45	31	26.57	7.00	19.70	15.50	18.48	25.50	2.10	1.33	0.46	1.50	41.00	49.50	2	32	4	3	1	1	0.00	0.00				
O0336	17.88	20	21	23.90	6.50	22.37	17.00	16.40	22.50	3.59	1.36	1.58	3.00	39.50	49.00	2	39	7	3	1	0					17.88	706.26
O0338	14.83	82	21	14.70	4.50	13.42	10.00	16.75	26.50	3.75	4.51	0.25	3.50	36.50	44.50	2	35	14	3	1	1	14.83	541.30				
O0343	2.39	67	31P	535.57	115.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	115.00	1	40	0	3	1	0					2.39	0.00
O0344	12.40	20	31P	56.26	16.84	10.14	7.37	12.37	18.42	0.00	0.00	0.00	0.00	25.79	42.63	6	17	0	3	1	0					12.40	319.80
O0426	0.15	11	21P	16.81	4.00	10.83	8.00	3.55	5.00	10.37	3.69	3.42	8.00	13.00	25.00	4	28	33	3	1	0					0.15	1.95
O0428	0.82	56	25	12.64	4.50	28.99	20.50	5.61	6.50	2.55	0.00	0.00	0.00	27.00	31.50	1	36	0	3	1	0					0.82	22.14
O0429	0.15	62	26P	30.91	9.50	16.50	12.50	11.19	15.00	13.49	1.96	0.50	2.50	27.50	39.50	1	28	8	3	1	0					0.15	4.13
O0430	6.80	56	31	20.19	7.50	16.97	12.00	9.67	16.00	4.06	4.49	0.37	3.50	28.00	39.00	1	37	15	3	1	0					6.80	190.40
O1102	8.40	64	21	66.69	16.25	21.34	15.00	12.50	17.50	5.77	5.63	4.21	10.00	32.50	58.75	2	18	23	3	1	1	8.40	273.00				
O1103	6.35	52	31	97.61	30.00	39.25	28.33	10.05	11.67	12.62	4.35	2.68	6.67	40.00	76.67	1	18	12	3	1	0			6.35	254.00		
O1105	36.55	25	31	165.94	46.00	34.25	21.00	0.00	0.00	0.00	0.00	0.00	0.00	21.00	67.00	1	27	0	3	1	0					36.55	767.55
O1107	6.77	51	31	34.78	10.50	21.21	14.50	10.87	18.50	18.12	5.11	1.15	5.00	33.00	48.50	1	38	16	3	1	1	6.77	223.41				
O1114	5.84	65	66**	13.86	3.50	1.14	1.00	5.33	8.00	28.53	17.15	4.29	16.50	9.00	29.00	6	23	77	3	1	0					0.00	0.00
O1115	0.01	74	31	71.97	20.53	28.95	20.00	10.59	14.21	20.28	8.07	1.42	7.37	34.21	62.11	1	21	19	3	1	0			0.01	0.34		
pp381*	2.44	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.44	0.00
pp382*	0.70	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.70	0.00
pp383*	8.20	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					8.20	0.00
pp430*	2.18	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.18	0.00
pp486*	53.46	19	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					53.46	0.00
pp487*	2.57	19	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.57	0.00
pp631*	3.11	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.11	0.00
pp632*	6.70	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					6.70	0.00
	200.69																					**30.00**	**1,037.71**	**6.36**	**254.34**	**156.50**	**2,012.23**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0336	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					1.40	55.30
O0338	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.56	20.44
O0344	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					4.54	117.09
O0430	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.02	0.56
O1102	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails	2.55	82.88				
O1105	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					1.47	30.87
O1107	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails	1.50	49.50				
pp383*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					2.11	0.00
pp430*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.18	0.00
pp486*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					8.59	0.00
			2009 SUB-TOTAL	**4.05**	**132.38**	**0.00**	**0.00**	**18.87**	**224.26**
O0338	2010	65557	Repair Existing Training Area Roads, Phase 1	1.21	44.17				
O0426	2010	65557	Repair Existing Training Area Roads, Phase 1					0.13	1.69
O0428	2010	65557	Repair Existing Training Area Roads, Phase 1					0.30	8.10
O0430	2010	65557	Repair Existing Training Area Roads, Phase 1					1.83	51.24
pp383*	2010	65557	Repair Existing Training Area Roads, Phase 1					1.31	0.00
			2010 SUB-TOTAL	**1.21**	**44.17**	**0.00**	**0.00**	**3.57**	**61.03**
			TOTAL REMOVALS	**5.26**	**176.55**	**0.00**	**0.00**	**22.44**	**285.29**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**25.95**	**905.33**	**24.74**	**861.16**
Potentially Suitable Habitat	**6.36**	**254.34**	**6.36**	**254.34**
Future Potential Habitat	**137.63**	**1,787.97**	**134.06**	**1,726.94**
TOTAL	**169.94**	**2,947.64**	**165.16**	**2,842.44**

Key:

BA= basal area
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26P = Mixed Pine-Longleaf Plantation
31 = Loblolly Pine
31P = Loblolly Pine Plantation
66** = Oak-Hickdory (managed for hardwoods)

* Note: No pine data was taken for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-202. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O03-04**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0327	1.95	45	31	26.57	7.00	19.70	15.50	18.48	25.50	2.10	1.33	0.46	1.50	41.00	49.50	2	32	4	3	1	4.44	PS					0.00	0.00
O0336	17.88	20	21	23.90	6.50	22.37	17.00	16.40	22.50	3.59	1.36	1.58	3.00	39.50	49.00	2	39	7	3	1	3.98	PS					17.88	706.26
O0338	14.83	82	21	14.70	4.50	13.42	10.00	16.75	26.50	3.75	4.51	0.25	3.50	36.50	44.50	2	35	14	3	1	4.48	PS					14.83	541.30
O0343	2.39	67	31P	535.57	115.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	115.00	1	40	0	3	1	3.33	PS					2.39	0.00
O0344	12.40	20	31P	56.26	16.84	10.14	7.37	12.37	18.42	0.00	0.00	0.00	0.00	25.79	42.63	6	17	0	3	1	3.06	PS					12.40	319.80
O0426	0.15	11	21P	16.81	4.00	10.83	8.00	3.55	5.00	10.37	3.69	3.42	8.00	13.00	25.00	4	28	33	3	1	2.50	PS					0.15	1.95
O0428	0.82	56	25	12.64	4.50	28.99	20.50	5.61	6.50	2.55	0.00	0.00	0.00	27.00	31.50	1	36	0	3	1	3.63	PS					0.82	22.14
O0429	0.15	62	26P	30.91	9.50	16.50	12.50	11.19	15.00	13.49	1.96	0.50	2.50	27.50	39.50	1	28	8	3	1	4.08	PS					0.15	4.13
O0430	6.80	56	31	20.19	7.50	16.97	12.00	9.67	16.00	4.06	4.49	0.37	3.50	28.00	39.00	1	37	15	3	1	3.99	PS					6.80	190.40
O1102	8.40	64	21	66.69	16.25	21.34	15.00	12.50	17.50	5.77	5.63	4.21	10.00	32.50	58.75	2	18	23	3	1	3.77	PS					8.40	273.00
O1103	6.35	52	31	97.61	30.00	39.25	28.33	10.05	11.67	12.62	4.35	2.68	6.67	40.00	76.67	1	18	12	3	1	3.61	PS					6.35	254.00
O1105	36.55	25	31	165.94	46.00	34.25	21.00	0.00	0.00	0.00	0.00	0.00	0.00	21.00	67.00	1	27	0	3	1	2.62	PS					36.55	767.55
O1107	6.77	51	31	34.78	10.50	21.21	14.50	10.87	18.50	18.12	5.11	1.15	5.00	33.00	48.50	1	38	16	3	1	3.92	PS					6.77	223.41
O1114	5.84	65	66**	13.86	3.50	1.14	1.00	5.33	8.00	28.53	17.15	4.29	16.50	9.00	29.00	6	23	77	3	1	3.09	NH					0.00	0.00
O1115	0.01	74	31	71.97	20.53	28.95	20.00	10.59	14.21	20.28	8.07	1.42	7.37	34.21	62.11	1	21	19	3	1	3.79	PS					0.01	0.34
pp381*	2.44	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	PS					2.44	0.00
pp382*	0.70	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	PS					0.70	0.00
pp383*	8.20	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	PS					8.20	0.00
pp430*	2.18	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	PS					2.18	0.00
pp486*	53.46	19	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	PS					53.46	0.00
pp487*	2.57	19	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	PS					2.57	0.00
pp631*	3.11	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	PS					3.11	0.00
pp632*	6.70	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	PS					6.70	0.00
	200.69																						**0.00**	**0.00**	**0.00**	**0.00**	**192.86**	**3,304.28**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0336	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					1.40	55.30
O0338	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.56	20.44
O0344	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					4.54	117.09
O0430	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.02	0.56
O1102	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					2.55	82.88
O1105	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					1.47	30.87
O1107	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					1.50	49.50
pp383*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trail					2.11	0.00
pp430*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					0.18	0.00
pp486*	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					8.59	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**22.92**	**356.64**
O0338	2010	65557	Repair Existing Training Area Roads, Phase 1					1.21	44.17
O0426	2010	65557	Repair Existing Training Area Roads, Phase 1					0.13	1.69
O0428	2010	65557	Repair Existing Training Area Roads, Phase 1					0.30	8.10
O0430	2010	65557	Repair Existing Training Area Roads, Phase 1					1.83	51.24
pp383*	2010	65557	Repair Existing Training Area Roads, Phase 1					1.31	0.00
			2010 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**4.78**	**105.20**
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**27.70**	**461.84**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**169.94**	**2,947.64**	**165.16**	**2,842.44**
TOTAL	**169.94**	**2,947.64**	**165.16**	**2,842.44**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26P = Mixed Pine-Longleaf Plantation
31 = Loblolly Pine
31P = Loblolly Pine Plantation
66** = Oak-Hickdory (managed for hardwoods)

* Note: No pine data was taken for pine plantation stands less than 30 years old.
Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-203. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O03-05**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
N0101	0.12	75	21	9.55	3.50	8.65	6.00	13.65	23.50	1.43	1.27	0.78	2.00	29.50	35.00	5	28	8	3	1	0					0.12	3.54
N0105	12.75	54	21	22.19	8.00	14.38	10.50	14.67	21.50	4.53	1.28	0.88	2.50	32.00	42.50	2	37	7	3	1	1	12.75	408.00				
N0107	6.58	63	21	13.22	4.44	14.33	11.11	11.60	22.22	5.47	2.08	1.60	4.44	33.33	42.22	2	39	12	3	1	1	6.58	219.31				
N0109	0.39	63	22P	2.63	1.11	31.35	22.22	12.58	17.78	2.36	5.16	0.00	3.33	40.00	44.44	2	41	11	3	1	1	0.39	15.60				
N0110	28.34	79	21	10.97	4.00	11.58	9.00	28.47	46.50	3.95	2.04	0.45	2.50	55.50	62.00	2	43	6	3	1	1	28.34	1,572.87				
N0114	19.12	85	31	63.02	21.00	35.03	23.00	10.29	16.50	6.74	8.05	0.48	5.50	39.50	66.00	5	27	16	3	1	0			19.12	755.24		
N0121	3.02	43	22P	45.49	15.50	50.49	34.50	3.66	4.50	0.00	0.00	0.00	0.00	39.00	54.50	2	38	0	3	1	1	3.02	117.78				
O0201	27.26	71	21	19.03	4.50	5.90	5.00	21.49	34.00	1.36	0.50	0.00	0.50	39.00	44.00	1	18	2	3	1	1	27.26	1,063.14				
O0202	6.38	71	21	64.72	16.25	17.19	11.25	6.10	8.75	18.24	1.30	1.49	3.75	20.00	40.00	2	26	11	3	1	0					6.38	127.60
O0204	6.88	71	31	17.20	4.50	14.29	10.00	12.50	24.50	6.00	0.76	0.97	3.00	34.50	42.00	7	27	6	3	1	0			6.88	237.36		
O0206	6.95	39	31	5.76	2.00	28.35	20.00	3.71	5.00	8.11	4.86	0.00	3.00	25.00	30.00	2	38	13	3	1	0					6.95	173.75
O0208	17.54	56	26	21.54	6.00	15.86	12.00	16.66	27.00	5.58	2.30	1.39	4.00	39.00	49.00	7	30	10	3	1	0			17.54	684.06		
O0209	1.94	39	66**	15.70	3.68	10.08	7.37	5.86	10.53	12.66	13.24	2.13	11.58	17.89	33.16	2	25	49	3	1	0					0.00	0.00
O0301	13.75	80	26	7.97	2.00	12.80	9.50	20.61	30.00	2.82	0.00	0.45	0.50	39.50	42.00	1	33	1	3	1	1	13.75	543.13				
O0305	42.63	46	31	32.21	9.00	26.95	19.50	17.47	26.00	17.14	2.81	0.77	3.50	45.50	58.00	1	28	7	3	1	1	42.63	1,939.67				
O0306	9.00	47	22P	43.22	14.50	24.51	17.00	9.91	12.50	5.94	0.00	0.00	0.00	29.50	44.00	5	30	0	3	1	0					9.00	265.50
O0310	17.66	39	31	12.73	4.00	24.12	17.50	10.70	15.00	10.48	2.47	1.40	3.50	32.50	40.00	1	40	10	3	1	1	17.66	573.95				
O0315	0.55	39	31	42.88	12.50	25.77	18.50	14.20	19.50	0.00	0.00	0.45	0.50	38.00	51.00	1	43	1	3	1	1	0.55	20.90				
pp696*	4.10	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					4.10	0.00
pp697*	9.20	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					9.20	0.00
pp698*	1.90	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.90	0.00
pp749*	13.04	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					13.04	0.00
pp808*	8.52	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					8.52	0.00
pp809*	12.50	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					12.50	0.00
	270.12																					**152.93**	**6,474.35**	**43.54**	**1,676.66**	**71.71**	**570.39**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
N0110	2010	65557	Repair Existing Training Area Roads, Phase 1	0.10	5.55				
N0114	2010	65557	Repair Existing Training Area Roads, Phase 1			4.93	194.74		
N0121	2010	65557	Repair Existing Training Area Roads, Phase 1	1.29	50.31				
O0201	2010	65557	Repair Existing Training Area Roads, Phase 1	3.78	147.42				
O0202	2010	65557	Repair Existing Training Area Roads, Phase 1					1.46	29.20
O0206	2010	65557	Repair Existing Training Area Roads, Phase 1					1.54	38.50
O0301	2010	65557	Repair Existing Training Area Roads, Phase 1	2.22	87.69				
O0305	2010	65557	Repair Existing Training Area Roads, Phase 1	2.22	101.01				
O0310	2010	65557	Repair Existing Training Area Roads, Phase 1	2.99	97.18				
O0315	2010	65557	Repair Existing Training Area Roads, Phase 1	0.14	5.32				
pp749*	2010	65557	Repair Existing Training Area Roads, Phase 1					2.49	0.00
pp808*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.96	0.00
pp809*	2010	65557	Repair Existing Training Area Roads, Phase 1					1.58	0.00
			TOTAL REMOVALS	**12.74**	**494.48**	**4.93**	**194.74**	**8.03**	**67.70**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**140.19**	**5,979.87**
Potentially Suitable Habitat	**38.61**	**1,481.92**
Future Potential Habitat	**63.68**	**502.69**
TOTAL	**242.48**	**7,964.48**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
66** = Oak-Hickory (managed for hardwoods)

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-204. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O03-05**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
N0101	0.12	75	21	9.55	3.50	8.65	6.00	13.65	23.50	1.43	1.27	0.78	2.00	29.50	35.00	5	28	8	3	1	4.16	PS					0.12	3.54
N0105	12.75	54	21	22.19	8.00	14.38	10.50	14.67	21.50	4.53	1.28	0.88	2.50	32.00	42.50	2	37	7	3	1	4.34	PS					12.75	408.00
N0107	6.58	63	21	13.22	4.44	14.33	11.11	11.60	22.22	5.47	2.08	1.60	4.44	33.33	42.22	2	39	12	3	1	4.33	PS					6.58	219.31
N0109	0.39	63	22P	2.63	1.11	31.35	22.22	12.58	17.78	2.36	5.16	0.00	3.33	40.00	44.44	2	41	11	3	1	4.34	PS					0.39	15.60
N0110	28.34	79	21	10.97	4.00	11.58	9.00	28.47	46.50	3.95	2.04	0.45	2.50	55.50	62.00	2	43	6	3	1	4.85	CS	28.34	1,572.87				
N0114	19.12	85	31	63.02	21.00	35.03	23.00	10.29	16.50	6.74	8.05	0.48	5.50	39.50	66.00	5	27	16	3	1	3.76	PS					19.12	755.24
N0121	3.02	43	22P	45.49	15.50	50.49	34.50	3.66	4.50	0.00	0.00	0.00	0.00	39.00	54.50	2	38	0	3	1	3.18	PS					3.02	117.78
O0201	27.26	71	21	19.03	4.50	5.90	5.00	21.49	34.00	1.36	0.50	0.00	0.50	39.00	44.00	1	18	2	3	1	4.49	CS	27.26	1,063.14				
O0202	6.38	71	21	64.72	16.25	17.19	11.25	6.10	8.75	18.24	1.30	1.49	3.75	20.00	40.00	2	26	11	3	1	3.46	PS					6.38	127.60
O0204	6.88	71	31	17.20	4.50	14.29	10.00	12.50	24.50	6.00	0.76	0.97	3.00	34.50	42.00	7	27	6	3	1	3.95	PS					6.88	237.36
O0206	6.95	39	31	5.76	2.00	28.35	20.00	3.71	5.00	8.11	4.86	0.00	3.00	25.00	30.00	2	38	13	3	1	3.09	PS					6.95	173.75
O0208	17.54	56	26	21.54	6.00	15.86	12.00	16.66	27.00	5.58	2.30	1.39	4.00	39.00	49.00	7	30	10	3	1	3.99	PS					17.54	684.06
O0209	1.94	39	66**	15.70	3.68	10.08	7.37	5.86	10.53	12.66	13.24	2.13	11.58	17.89	33.16	2	25	49	3	1	3.04	PS					0.00	0.00
O0301	13.75	80	26	7.97	2.00	12.80	9.50	20.61	30.00	2.82	0.00	0.45	0.50	39.50	42.00	1	33	1	3	1	4.70	CS	13.75	543.13				
O0305	42.63	46	31	32.21	9.00	26.95	19.50	17.47	26.00	17.14	2.81	0.77	3.50	45.50	58.00	1	28	7	3	1	4.19	PS					42.63	1,939.67
O0306	9.00	47	22P	43.22	14.50	24.51	17.00	9.91	12.50	5.94	0.00	0.00	0.00	29.50	44.00	5	30	0	3	1	3.48	PS					9.00	265.50
O0310	17.66	39	31	12.73	4.00	24.12	17.50	10.70	15.00	10.48	2.47	1.40	3.50	32.50	40.00	1	40	10	3	1	3.72	PS					17.66	573.95
O0315	0.55	39	31	42.88	12.50	25.77	18.50	14.20	19.50	0.00	0.00	0.45	0.50	38.00	51.00	1	43	1	3	1	4.01	PS					0.55	20.90
pp696*	4.10	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					4.10	0.00
pp697*	9.20	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					9.20	0.00
pp698*	1.90	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.90	0.00
pp749*	13.04	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					13.04	0.00
pp808*	8.52	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					8.52	0.00
pp809*	12.50	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					12.50	0.00
	270.12																						**69.35**	**3,179.14**	**0.00**	**0.00**	**198.83**	**5,542.26**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
N0110	2010	65557	Repair Existing Training Area Roads, Phase 1	0.10	5.55				
N0114	2010	65557	Repair Existing Training Area Roads, Phase 1					4.93	194.74
N0121	2010	65557	Repair Existing Training Area Roads, Phase 1					1.29	50.31
O0201	2010	65557	Repair Existing Training Area Roads, Phase 1	3.78	147.42				
O0202	2010	65557	Repair Existing Training Area Roads, Phase 1					1.46	29.20
O0206	2010	65557	Repair Existing Training Area Roads, Phase 1					1.54	38.50
O0301	2010	65557	Repair Existing Training Area Roads, Phase 1	2.22	87.69				
O0305	2010	65557	Repair Existing Training Area Roads, Phase 1					2.22	101.01
O0310	2010	65557	Repair Existing Training Area Roads, Phase 1					2.99	97.18
O0315	2010	65557	Repair Existing Training Area Roads, Phase 1					0.14	5.32
pp749*	2010	65557	Repair Existing Training Area Roads, Phase 1					2.49	0.00
pp808*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.96	0.00
pp809*	2010	65557	Repair Existing Training Area Roads, Phase 1					1.58	0.00
			TOTAL REMOVALS	**6.10**	**240.66**	**0.00**	**0.00**	**19.60**	**516.26**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**63.25**	**2,938.48**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**179.23**	**5,026.00**
TOTAL	**242.48**	**7,964.48**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
66** = Oak-Hickory (managed for hardwoods)

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-205. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O03-06F**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgi

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0306	29.61	47	22P	43.22	14.50	24.51	17.00	9.91	12.50	5.94	0.00	0.00	0.00	29.50	44.00	5	30	0	3	1	0					29.61	873.50
O0308	4.50	43	22P	11.13	3.50	20.00	14.00	5.09	6.00	16.52	1.78	0.45	1.50	20.00	25.00	1	36	8	3	1	0					4.50	90.00
O0310	13.01	39	31	12.73	4.00	24.12	17.50	10.70	15.00	10.48	2.47	1.40	3.50	32.50	40.00	1	40	10	3	1	1	13.01	422.83				
O0311	32.17	41	26	29.45	8.50	23.75	15.50	6.81	9.00	6.49	1.19	0.00	1.00	24.50	34.00	1	30	4	3	1	0					32.17	788.17
O0312	13.80	41	22P	114.62	33.00	19.44	13.00	2.79	4.00	6.36	1.65	0.95	2.50	17.00	52.50	2	26	10	3	1	0					13.80	234.60
O0313	6.82	55	10	19.35	7.00	17.52	12.00	12.88	18.00	24.43	8.31	1.62	8.00	30.00	45.00	1	23	25	3	1	1	6.82	204.60				
O0314	37.72	42	22P	25.52	9.50	29.95	20.50	8.34	10.50	3.91	0.00	0.28	0.50	31.00	41.00	1	32	1	3	1	1	37.72	1,169.32				
O0315	43.44	39	31	42.88	12.50	25.77	18.50	14.20	19.50	0.00	0.00	0.45	0.50	38.00	51.00	1	43	1	3	1	1	43.44	1,650.72				
O0320	7.31	40	31	22.66	8.57	24.05	17.14	13.06	18.57	7.04	2.62	1.38	2.86	35.71	47.14	2	41	10	3	1	1	7.31	261.04				
O0321	34.42	42	21	27.92	7.50	11.34	9.00	10.43	14.00	6.57	1.54	0.89	2.50	23.00	33.00	1	39	10	3	1	0					34.42	791.66
O0322	13.54	42	22P	42.20	14.50	29.33	19.50	5.72	7.50	0.00	0.00	0.40	0.50	27.00	42.00	1	35	1	3	1	0					13.54	365.58
O0326	12.77	40	10	31.81	9.00	19.49	13.00	8.12	12.50	26.74	5.21	1.88	6.00	25.50	40.50	6	19	20	3	1	0					12.77	325.64
O0327	14.02	45	31	26.57	7.00	19.70	15.50	18.48	25.50	2.10	1.33	0.46	1.50	41.00	49.50	2	32	4	3	1	1	14.02	574.82				
pp377*	1.34	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.34	0.00
pp379*	1.63	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.63	0.00
	266.10																					**122.32**	**4,283.33**	**0.00**	**0.00**	**143.78**	**3,469.15**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0306	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					8.00	236.00
O0313	2009	69742	Support Staging Area	1.53	45.90				
O0314	2009	69742	Support Staging Area	2.18	67.58				
O0314	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails	9.30	288.30				
O0315	2009	69742	Northern Training Area Infrastructure-Construct Tank Trails	2.54	96.52				
O0320	2009	69742	Northern Training Area Infrastructure-Construct Tank Trails	2.40	85.70				
O0326	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					4.69	119.60
O0327	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails	4.39	179.99				
			TOTAL REMOVALS	**22.34**	**763.99**	**0.00**	**0.00**	**12.69**	**355.60**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**99.98**	**3,519.34**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**131.09**	**3,113.55**
TOTAL	**231.07**	**6,632.89**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-206. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O03-06R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0306	29.61	47	22P	43.22	14.50	24.51	17.00	9.91	12.50	5.94	0.00	0.00	0.00	29.50	44.00	5	30	0	3	1	3.48	PS					29.61	873.50
O0308	4.50	43	22P	11.13	3.50	20.00	14.00	5.09	6.00	16.52	1.78	0.45	1.50	20.00	25.00	1	36	8	3	1	3.44	PS					4.50	90.00
O0310	13.01	39	31	12.73	4.00	24.12	17.50	10.70	15.00	10.48	2.47	1.40	3.50	32.50	40.00	1	40	10	3	1	3.72	PS					13.01	422.83
O0311	32.17	41	26	29.45	8.50	23.75	15.50	6.81	9.00	6.49	1.19	0.00	1.00	24.50	34.00	1	30	4	3	1	3.42	PS					32.17	788.17
O0312	13.80	41	22P	114.62	33.00	19.44	13.00	2.79	4.00	6.36	1.65	0.95	2.50	17.00	52.50	2	26	10	3	1	2.79	PS					13.80	234.60
O0313	6.82	55	10	19.35	7.00	17.52	12.00	12.88	18.00	24.43	8.31	1.62	8.00	30.00	45.00	1	23	25	3	1	3.77	PS					6.82	204.60
O0314	37.72	42	22P	25.52	9.50	29.95	20.50	8.34	10.50	3.91	0.00	0.28	0.50	31.00	41.00	1	32	1	3	1	3.62	PS					37.72	1,169.32
O0315	43.44	39	31	42.88	12.50	25.77	18.50	14.20	19.50	0.00	0.00	0.45	0.50	38.00	51.00	1	43	1	3	1	4.01	PS					43.44	1,650.72
O0320	7.31	40	31	22.66	8.57	24.05	17.14	13.06	18.57	7.04	2.62	1.38	2.86	35.71	47.14	2	41	10	3	1	4.22	PS					7.31	261.04
O0321	34.42	42	21	27.92	7.50	11.34	9.00	10.43	14.00	6.57	1.54	0.89	2.50	23.00	33.00	1	39	10	3	1	3.65	PS					34.42	791.66
O0322	13.54	42	22P	42.20	14.50	29.33	19.50	5.72	7.50	0.00	0.00	0.40	0.50	27.00	42.00	1	35	1	3	1	3.42	PS					13.54	365.58
O0326	12.77	40	10	31.81	9.00	19.49	13.00	8.12	12.50	26.74	5.21	1.88	6.00	25.50	40.50	6	19	20	3	1	3.00	PS					12.77	325.64
O0327	14.02	45	31	26.57	7.00	19.70	15.50	18.48	25.50	2.10	1.33	0.46	1.50	41.00	49.50	2	32	4	3	1	4.44	PS					14.02	574.82
pp377*	1.34	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.34	0.00
pp379*	1.63	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.63	0.00
	266.10																						**0.00**	**0.00**	**0.00**	**0.00**	**266.10**	**7,752.48**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0306	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					8.00	236.00
O0313	2009	69742	Support Staging Area					1.53	45.90
O0314	2009	69742	Support Staging Area					2.18	67.58
O0314	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					9.30	288.30
O0315	2009	69742	Northern Training Area Infrastructure-Construct Tank Trails					2.54	96.52
O0320	2009	69742	Northern Training Area Infrastructure-Construct Tank Trails					2.40	85.70
O0326	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					4.69	119.60
O0327	2009	69742	Northern Training Area Infrastructure-Upgrade Tank Trails					4.39	179.99
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**35.03**	**1,119.59**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**231.07**	**6,632.89**
TOTAL	**231.07**	**6,632.89**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-207. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O03-07**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0303	4.13	94	21	14.69	4.50	12.74	9.50	16.77	26.50	10.95	0.00	0.00	0.00	36.00	40.50	1	35	0	3	1	1	4.13	148.68				
O0306	0.10	47	22P	43.22	14.50	24.51	17.00	9.91	12.50	5.94	0.00	0.00	0.00	29.50	44.00	5	30	0	3	1	0					0.00	0.00
O0307	52.26	43	31	37.70	10.50	40.11	29.00	14.93	19.50	0.00	0.00	0.69	1.00	48.50	60.00	1	35	1	3	1	1	52.26	2,534.61				
O0308	12.40	43	22P	11.13	3.50	20.00	14.00	5.09	6.00	16.52	1.78	0.45	1.50	20.00	25.00	1	36	8	3	1	0					12.40	248.00
O0312	1.14	41	22P	114.62	33.00	19.44	13.00	2.79	4.00	6.36	1.65	0.95	2.50	17.00	52.50	2	26	10	3	1	0					1.14	19.38
O0313	11.64	55	10	19.35	7.00	17.52	12.00	12.88	18.00	24.43	8.31	1.62	8.00	30.00	45.00	1	23	25	3	1	1	11.64	349.20				
O0314	13.70	42	22P	25.52	9.50	29.95	20.50	8.34	10.50	3.91	0.00	0.28	0.50	31.00	41.00	1	32	1	3	1	1	13.70	424.70				
O0401	0.44	39	26	27.42	7.50	18.00	12.50	8.02	10.50	8.69	2.60	0.26	2.50	23.00	33.00	1	26	10	3	1	0					0.44	10.12
O0403	3.02	64	21	10.93	3.00	10.11	7.50	5.44	8.00	9.52	5.75	2.32	6.50	15.50	25.00	5	30	34	3	1	0					3.02	46.81
O0404	10.16	43	22P	52.45	14.50	18.41	12.50	4.22	5.50	3.27	2.16	0.00	1.50	18.00	34.00	1	24	9	3	1	0					10.16	182.88
O0534	7.19	55	21	37.49	10.00	23.10	16.50	14.04	19.50	1.30	2.14	0.41	2.00	36.00	48.00	1	30	6	3	1	1	7.19	258.84				
O0537	25.06	53	21	19.39	5.50	23.85	17.50	15.40	20.00	4.88	0.00	1.27	2.00	37.50	45.00	1	31	3	3	1	1	25.06	939.75				
O0538	8.40	53	31	38.18	12.50	64.35	46.25	4.60	5.00	0.00	0.00	0.00	0.00	51.25	63.75	2	16	0	3	1	1	8.40	430.50				
pp337*	1.68	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.68	0.00
pp374*	0.02	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.02	0.00
pp375*	2.51	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.51	0.00
pp376*	1.21	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.21	0.00
pp460*	23.43	14	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					23.43	0.00
	178.49																					**122.38**	**5,086.28**	**0.00**	**0.00**	**56.01**	**507.19**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0307	2010	65557	Repair Existing Training Area Roads, Phase 1	3.94	191.09				
O0314	2010	65557	Repair Existing Training Area Roads, Phase 1	2.59	80.29				
O0534	2010	65557	Repair Existing Training Area Roads, Phase 1	1.00	36.00				
O0537	2010	65557	Repair Existing Training Area Roads, Phase 1	2.89	108.38				
pp337*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.37	0.00
			TOTAL REMOVALS	**10.42**	**415.76**	**0.00**	**0.00**	**0.37**	**0.00**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**111.96**	**4,670.52**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**55.64**	**507.19**
TOTAL	**167.60**	**5,177.71**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-208. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O03-07**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0303	4.13	94	21	14.69	4.50	12.74	9.50	16.77	26.50	10.95	0.00	0.00	0.00	36.00	40.50	1	35	0	3	1	4.54	PS					4.13	148.68
O0306	0.10	47	22P	43.22	14.50	24.51	17.00	9.91	12.50	5.94	0.00	0.00	0.00	29.50	44.00	5	30	0	3	1	3.48	PS					0.00	0.00
O0307	52.26	43	31	37.70	10.50	40.11	29.00	14.93	19.50	0.00	0.00	0.69	1.00	48.50	60.00	1	35	1	3	1	4.11	PS					52.26	2,534.61
O0308	12.40	43	22P	11.13	3.50	20.00	14.00	5.09	6.00	16.52	1.78	0.45	1.50	20.00	25.00	1	36	8	3	1	3.44	PS					12.40	248.00
O0312	1.14	41	22P	114.62	33.00	19.44	13.00	2.79	4.00	6.36	1.65	0.95	2.50	17.00	52.50	2	26	10	3	1	2.79	PS					1.14	19.38
O0313	11.64	55	10	19.35	7.00	17.52	12.00	12.88	18.00	24.43	8.31	1.62	8.00	30.00	45.00	1	23	25	3	1	3.77	PS					11.64	349.20
O0314	13.70	42	22P	25.52	9.50	29.95	20.50	8.34	10.50	3.91	0.00	0.28	0.50	31.00	41.00	1	32	1	3	1	3.62	PS					13.70	424.70
O0401	0.44	39	26	27.42	7.50	18.00	12.50	8.02	10.50	8.69	2.60	0.26	2.50	23.00	33.00	1	26	10	3	1	3.32	PS					0.44	10.12
O0403	3.02	64	21	10.93	3.00	10.11	7.50	5.44	8.00	9.52	5.75	2.32	6.50	15.50	25.00	5	30	34	3	1	3.09	PS					3.02	46.81
O0404	10.16	43	22P	52.45	14.50	18.41	12.50	4.22	5.50	3.27	2.16	0.00	1.50	18.00	34.00	1	24	9	3	1	3.06	PS					10.16	182.88
O0534	7.19	55	21	37.49	10.00	23.10	16.50	14.04	19.50	1.30	2.14	0.41	2.00	36.00	48.00	1	30	6	3	1	4.20	PS					7.19	258.84
O0537	25.06	53	21	19.39	5.50	23.85	17.50	15.40	20.00	4.88	0.00	1.27	2.00	37.50	45.00	1	31	3	3	1	4.41	PS					25.06	939.75
O0538	8.40	53	31	38.18	12.50	64.35	46.25	4.60	5.00	0.00	0.00	0.00	0.00	51.25	63.75	2	16	0	3	1	3.24	PS					8.40	430.50
pp337*	1.68	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.68	0.00
pp374*	0.02	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.02	0.00
pp375*	2.51	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.51	0.00
pp376*	1.21	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.21	0.00
pp460*	23.43	14	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					23.43	0.00
	178.49																						**0.00**	**0.00**	**0.00**	**0.00**	**178.39**	**5,593.47**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0307	2010	65557	Repair Existing Training Area Roads, Phase 1					3.94	191.09
O0314	2010	65557	Repair Existing Training Area Roads, Phase 1					2.59	80.29
O0534	2010	65557	Repair Existing Training Area Roads, Phase 1					1.00	36.00
O0537	2010	65557	Repair Existing Training Area Roads, Phase 1					2.89	108.38
pp337*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.37	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**10.79**	**415.76**

POST-PROJECT

	2010 Acres	2010 BA
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**167.60**	**5,177.71**
TOTAL	**167.60**	**5,177.71**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-209. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O04-01 Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0406	11.34	42	31	26.17	9.00	23.00	16.50	8.93	12.00	4.60	0.99	0.89	1.50	28.50	39.00	1	29	6	3	1	0					11.34	323.19
O0409	0.97	42	26	22.84	7.50	17.97	13.00	6.54	8.50	2.34	1.64	1.63	3.50	21.50	32.50	1	29	12	3	1	0					0.00	0.00
O0411	27.89	95	26	12.91	3.50	5.90	4.50	11.30	17.00	9.70	3.03	0.72	3.00	21.50	28.00	5	21	18	3	1	0					27.89	599.64
O0413	17.47	80	31	1.13	0.50	1.68	1.00	15.33	25.50	25.60	4.59	2.20	6.50	26.50	33.50	1	24	29	3	1	0					17.47	462.96
O0417	24.60	49	21	26.93	6.50	15.45	11.00	11.58	17.00	11.69	0.00	1.63	2.00	28.00	36.50	5	24	6	3	1	0					0.00	0.00
O0419	13.78	44	31	6.31	2.50	12.62	10.00	12.02	18.50	3.59	1.23	1.18	3.00	28.50	34.00	1	31	9	3	1	0					13.78	392.73
O0421	3.49	63	21	23.69	5.71	17.07	12.38	14.24	21.43	0.00	0.00	0.46	0.48	33.81	40.00	1	36	1	3	1	1	0.00	0.00				
pp150*	0.46	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.46	0.00
pp335*	1.04	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp336*	2.23	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.23	0.00
	103.27																					**0.00**	**0.00**	**0.00**	**0.00**	**73.17**	**1,778.52**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0411	2010	65557	Repair Existing Training Area Roads, Phase 1					5.65	121.48
O0413	2010	65557	Repair Existing Training Area Roads, Phase 1					3.95	104.68
O0419	2010	65557	Repair Existing Training Area Roads, Phase 1					4.55	129.68
pp150*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.20	0.00
pp336*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.32	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**14.67**	**355.84**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**58.50**	**1,422.68**
TOTAL	**58.50**	**1,422.68**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-210. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O04-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0406	11.34	42	31	26.17	9.00	23.00	16.50	8.93	12.00	4.60	0.99	0.89	1.50	28.50	39.00	1	29	6	3	1	3.35	PS					11.34	323.19
O0409	0.97	42	26	22.84	7.50	17.97	13.00	6.54	8.50	2.34	1.64	1.63	3.50	21.50	32.50	1	29	12	3	1	3.27	PS					0.00	0.00
O0411	27.89	95	26	12.91	3.50	5.90	4.50	11.30	17.00	9.70	3.03	0.72	3.00	21.50	28.00	5	21	18	3	1	3.70	PS					27.89	599.64
O0413	17.47	80	31	1.13	0.50	1.68	1.00	15.33	25.50	25.60	4.59	2.20	6.50	26.50	33.50	1	24	29	3	1	4.15	PS					17.47	462.96
O0417	24.60	49	21	26.93	6.50	15.45	11.00	11.58	17.00	11.69	0.00	1.63	2.00	28.00	36.50	5	24	6	3	1	3.57	PS					0.00	0.00
O0419	13.78	44	31	6.31	2.50	12.62	10.00	12.02	18.50	3.59	1.23	1.18	3.00	28.50	34.00	1	31	9	3	1	3.92	PS					13.78	392.73
O0421	3.49	63	21	23.69	5.71	17.07	12.38	14.24	21.43	0.00	0.00	0.46	0.48	33.81	40.00	1	36	1	3	1	4.53	PS					0.00	0.00
pp150*	0.46	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.46	0.00
pp335*	1.04	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp336*	2.23	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.23	0.00
	103.27																						**0.00**	**0.00**	**0.00**	**0.00**	**73.17**	**1,778.52**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0411	2010	65557	Repair Existing Training Area Roads, Phase 1					5.65	121.48
O0413	2010	65557	Repair Existing Training Area Roads, Phase 1					3.95	104.68
O0419	2010	65557	Repair Existing Training Area Roads, Phase 1					4.55	129.68
pp150*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.20	0.00
pp336*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.32	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**14.67**	**355.84**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**58.50**	**1,422.68**
TOTAL	**58.50**	**1,422.68**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-211. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O04-03**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgi

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0401	12.36	39	26	27.42	7.50	18.00	12.50	8.02	10.50	8.69	2.60	0.26	2.50	23.00	33.00	1	26	10	3	1	0					0.00	0.00
O0403	15.15	64	21	10.93	3.00	10.11	7.50	5.44	8.00	9.52	5.75	2.32	6.50	15.50	25.00	5	30	34	3	1	0					0.00	0.00
O0404	2.45	43	22P	52.45	14.50	18.41	12.50	4.22	5.50	3.27	2.16	0.00	1.50	18.00	34.00	1	24	9	3	1	0					0.00	0.00
O0405	36.55	50	21	35.86	10.00	11.71	8.24	6.14	8.82	11.69	5.05	0.00	3.53	17.06	30.59	5	38	22	3	1	0					36.55	623.54
O0406	23.26	42	31	26.17	9.00	23.00	16.50	8.93	12.00	4.60	0.99	0.89	1.50	28.50	39.00	1	29	6	3	1	0					23.26	662.91
O0411	15.88	95	26	12.91	3.50	5.90	4.50	11.30	17.00	9.70	3.03	0.72	3.00	21.50	28.00	5	21	18	3	1	0					15.88	341.42
O0417	2.92	49	21	26.93	6.50	15.45	11.00	11.58	17.00	11.69	0.00	1.63	2.00	28.00	36.50	5	24	6	3	1	0					0.00	0.00
O0539	1.03	43	21	29.39	9.00	15.43	11.50	13.62	19.50	13.46	5.50	0.95	5.00	31.00	45.00	1	28	18	3	1	1	0.00	0.00				
O0541	15.43	49	31	65.91	16.50	19.50	13.50	9.18	14.00	8.61	3.40	0.00	2.00	27.50	46.00	1	24	11	3	1	0					0.00	0.00
pp460*	2.19	14	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
	127.22																					**0.00**	**0.00**	**0.00**	**0.00**	**75.69**	**1,627.87**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0411	2010	65557	Repair Existing Training Area Roads, Phase 1					2.21	47.52
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**2.21**	**47.52**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**73.48**	**1,580.35**
TOTAL	**73.48**	**1,580.35**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-212. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O04-03a, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0401	12.36	39	26	27.42	7.50	18.00	12.50	8.02	10.50	8.69	2.60	0.26	2.50	23.00	33.00	1	26	10	3	1	3.32	PS					0.00	0.00
O0403	15.15	64	21	10.93	3.00	10.11	7.50	5.44	8.00	9.52	5.75	2.32	6.50	15.50	25.00	5	30	34	3	1	3.09	PS					0.00	0.00
O0404	2.45	43	22P	52.45	14.50	18.41	12.50	4.22	5.50	3.27	2.16	0.00	1.50	18.00	34.00	1	24	9	3	1	3.06	PS					0.00	0.00
O0405	36.55	50	21	35.86	10.00	11.71	8.24	6.14	8.82	11.69	5.05	0.00	3.53	17.06	30.59	5	38	22	3	1	3.11	PS					36.55	623.54
O0406	23.26	42	31	26.17	9.00	23.00	16.50	8.93	12.00	4.60	0.99	0.89	1.50	28.50	39.00	1	29	6	3	1	3.35	PS					23.26	662.91
O0411	15.88	95	26	12.91	3.50	5.90	4.50	11.30	17.00	9.70	3.03	0.72	3.00	21.50	28.00	5	21	18	3	1	3.70	PS					15.88	341.42
O0417	2.92	49	21	26.93	6.50	15.45	11.00	11.58	17.00	11.69	0.00	1.63	2.00	28.00	36.50	5	24	6	3	1	3.57	PS					0.00	0.00
O0539	1.03	43	21	29.39	9.00	15.43	11.50	13.62	19.50	13.46	5.50	0.95	5.00	31.00	45.00	1	28	18	3	1	3.82	PS					0.00	0.00
O0541	15.43	49	31	65.91	16.50	19.50	13.50	9.18	14.00	8.61	3.40	0.00	2.00	27.50	46.00	1	24	11	3	1	3.52	PS					0.00	0.00
pp460*	2.19	14	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
	127.22																						**0.00**	**0.00**	**0.00**	**0.00**	**75.69**	**1,627.87**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0411	2010	65557	Repair Existing Training Area Roads, Phase 1					2.21	47.52
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**2.21**	**47.52**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**73.48**	**1580.35**
TOTAL	**73.48**	**1580.35**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-213. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O04-03t**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0313	0.16	55	10	19.35	7.00	17.52	12.00	12.88	18.00	24.43	8.31	1.62	8.00	30.00	45.00	1	23	25	3	1	1	0.00	0.00				
O0314	22.33	42	22P	25.52	9.50	29.95	20.50	8.34	10.50	3.91	0.00	0.28	0.50	31.00	41.00	1	32	1	3	1	1	0.00	0.00				
O0325	0.98	0	26P	156.28	50.00	17.97	10.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	60.00	5	10	0	3	1	0					0.98	9.80
O0403	10.04	64	21	10.93	3.00	10.11	7.50	5.44	8.00	9.52	5.75	2.32	6.50	15.50	25.00	5	30	34	3	1	0					0.00	0.00
O0404	14.42	43	22P	52.45	14.50	18.41	12.50	4.22	5.50	3.27	2.16	0.00	1.50	18.00	34.00	1	24	9	3	1	0					0.00	0.00
O0405	11.13	50	21	35.86	10.00	11.71	8.24	6.14	8.82	11.69	5.05	0.00	3.53	17.06	30.59	5	38	22	3	1	0					11.13	189.88
O0409	14.47	42	26	22.84	7.50	17.97	13.00	6.54	8.50	2.34	1.64	1.63	3.50	21.50	32.50	1	29	12	3	1	0					14.47	311.11
O0410	13.35	84	21	5.96	1.50	9.16	7.00	24.45	40.00	5.53	0.66	1.68	3.00	47.00	51.50	1	21	6	3	1	1	13.35	627.45				
O0411	2.78	95	26	12.91	3.50	5.90	4.50	11.30	17.00	9.70	3.03	0.72	3.00	21.50	28.00	5	21	18	3	1	0					2.78	59.77
O0416	12.83	49	31	22.04	7.50	40.50	29.50	16.25	20.00	1.24	5.31	2.28	7.00	49.50	64.00	1	20	12	3	1	1	12.83	635.09				
O0417	8.21	49	21	26.93	6.50	15.45	11.00	11.58	17.00	11.69	0.00	1.63	2.00	28.00	36.50	5	24	6	3	1	0					8.21	229.88
pp337*	13.85	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp459*	1.98	14	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.98	0.00
pp488*	16.66	19	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					16.66	0.00
	143.19																					**26.18**	**1,262.54**	**0.00**	**0.00**	**56.21**	**800.44**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0325	2010	65557	Repair Existing Training Area Roads, Phase 1					0.51	5.10
O0409	2010	65557	Repair Existing Training Area Roads, Phase 1					4.57	98.26
O0410	2010	65557	Repair Existing Training Area Roads, Phase 1	4.37	205.39				
O0411	2010	65557	Repair Existing Training Area Roads, Phase 1					0.86	18.49
pp459*	2010	65557	Repair Existing Training Area Roads, Phase 1					1.21	0.00
			TOTAL REMOVALS	**4.37**	**205.39**	**0.00**	**0.00**	**7.15**	**121.85**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**21.81**	**1,057.15**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**49.06**	**678.59**
TOTAL	**70.87**	**1,735.74**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
26P = Mixed Pine-Longleaf Plantation
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-214. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O04-03b, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0313	0.16	55	10	19.35	7.00	17.52	12.00	12.88	18.00	24.43	8.31	1.62	8.00	30.00	45.00	1	23	25	3	1	3.77	PS					0.16	4.80
O0314	22.33	42	22P	25.52	9.50	29.95	20.50	8.34	10.50	3.91	0.00	0.28	0.50	31.00	41.00	1	32	1	3	1	3.62	PS					22.33	692.23
O0325	0.98	0	26P	156.28	50.00	17.97	10.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	60.00	5	10	0	3	1	2.24	NH					0.98	9.80
O0403	10.04	64	21	10.93	3.00	10.11	7.50	5.44	8.00	9.52	5.75	2.32	6.50	15.50	25.00	5	30	34	3	1	3.09	PS					0.00	0.00
O0404	14.42	43	22P	52.45	14.50	18.41	12.50	4.22	5.50	3.27	2.16	0.00	1.50	18.00	34.00	1	24	9	3	1	3.06	PS					0.00	0.00
O0405	11.13	50	21	35.86	10.00	11.71	8.24	6.14	8.82	11.69	5.05	0.00	3.53	17.06	30.59	5	38	22	3	1	3.11	PS					11.13	189.88
O0409	14.47	42	26	22.84	7.50	17.97	13.00	6.54	8.50	2.34	1.64	1.63	3.50	21.50	32.50	1	29	12	3	1	3.27	PS					14.47	311.11
O0410	13.35	84	21	5.96	1.50	9.16	7.00	24.45	40.00	5.53	0.66	1.68	3.00	47.00	51.50	1	21	6	3	1	4.65	CS	13.35	627.45				
O0411	2.78	95	26	12.91	3.50	5.90	4.50	11.30	17.00	9.70	3.03	0.72	3.00	21.50	28.00	5	21	18	3	1	3.70	PS					2.78	59.77
O0416	12.83	49	31	22.04	7.50	40.50	29.50	16.25	20.00	1.24	5.31	2.28	7.00	49.50	64.00	1	20	12	3	1	4.04	PS					12.83	635.09
O0417	8.21	49	21	26.93	6.50	15.45	11.00	11.58	17.00	11.69	0.00	1.63	2.00	28.00	36.50	5	24	6	3	1	3.57	PS					8.21	229.88
pp337*	13.85	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					13.85	0.00
pp459*	1.98	14	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.98	0.00
pp488*	16.66	19	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					16.66	0.00
	143.19																						**13.35**	**627.45**	**0.00**	**0.00**	**105.38**	**2,132.56**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0314	2009	69742	Northern Training Area Infrastructure					3.80	117.80
pp337*	2009	69742	Northern Training Area Infrastructure					0.08	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**3.88**	**117.80**
O0314	2010	65557	Repair Existing Training Area Roads, Phase 1					2.41	74.71
O0325	2010	65557	Repair Existing Training Area Roads, Phase 1					0.51	5.10
O0409	2010	65557	Repair Existing Training Area Roads, Phase 1					4.57	98.26
O0410	2010	65557	Repair Existing Training Area Roads, Phase 1	4.37	205.39				
O0411	2010	65557	Repair Existing Training Area Roads, Phase 1					0.86	18.49
pp337*	2010	65557	Repair Existing Training Area Roads, Phase 1					1.30	0.00
pp459*	2010	65557	Repair Existing Training Area Roads, Phase 1					1.21	0.00
			2010 SUB-TOTAL	**4.37**	**205.39**	**0.00**	**0.00**	**10.86**	**196.56**
			TOTAL REMOVALS	**4.37**	**205.39**	**0.00**	**0.00**	**14.74**	**314.36**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**13.35**	**627.45**	**8.98**	**422.06**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**101.50**	**2,014.76**	**90.64**	**1,818.20**
TOTAL	**114.85**	**2,642.21**	**99.62**	**2,240.26**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
26P = Mixed Pine-Longleaf Plantation
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-215. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O05-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
N0101	12.97	75	21	9.55	3.50	8.65	6.00	13.65	23.50	1.43	1.27	0.78	2.00	29.50	35.00	5	28	8	3	1	0					12.97	382.62
N0102	5.32	43	21U	5.79	2.50	0.00	0.00	7.16	12.50	24.81	0.00	0.00	0.00	12.50	15.00	4	30	0	3	1	0					5.32	66.50
O0501	25.46	73	31	30.49	10.00	29.91	21.00	18.06	29.00	7.16	0.95	3.43	6.00	50.00	66.00	1	28	8	3	1	1	25.46	1,273.00				
O0503	0.57	64	31	31.29	10.00	23.51	16.50	12.14	18.50	16.04	4.81	6.84	13.50	35.00	58.50	3	20	25	3	1	1	0.57	19.95				
O0505	32.13	49	31	25.96	6.50	15.83	11.50	26.33	44.00	5.22	0.53	0.69	1.50	55.50	63.50	2	42	3	3	1	1	32.13	1,783.22				
O0513	50.98	66	31	45.34	14.00	31.36	21.00	20.67	30.50	9.77	0.00	0.83	1.00	51.50	66.50	1	22	2	3	1	1	50.98	2,625.47				
O0514	43.43	49	21	13.30	4.29	31.87	24.29	17.51	23.33	0.00	0.58	0.00	0.48	47.62	52.38	1	37	1	3	1	1	43.43	2,068.14				
O0515	6.03	49	22P	123.62	35.00	79.19	53.75	13.33	17.50	0.00	0.00	1.15	1.25	71.25	107.50	1	29	1	3	1	0			6.03	429.64		
O0516	3.35	26	31P	61.78	17.65	42.53	30.59	16.52	20.59	2.42	0.76	0.00	0.59	51.18	69.41	1	25	1	3	1	0					3.35	171.45
O0519	2.57	53	31	205.40	58.00	56.10	40.00	33.74	54.00	0.00	0.00	0.00	0.00	94.00	152.00	1	28	0	3	1	0			2.57	241.58		
O0529	13.36	66	21	8.87	2.63	21.83	14.74	20.40	34.74	1.51	1.75	0.32	1.58	49.47	53.68	2	33	5	3	1	1	13.36	660.92				
O0548	23.77	73	31	30.49	10.00	29.91	21.00	18.06	29.00	7.16	0.95	3.43	6.00	50.00	66.00	1	28	8	3	1	1	23.77	1,188.50				
O0549	30.58	66	31	44.20	13.50	32.27	21.50	20.67	30.50	9.77	0.00	0.83	1.00	52.00	66.50	1	22	2	3	1	1	30.58	1,590.16				
pp342*	3.10	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.10	0.00
pp695*	1.90	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.90	0.00
pp807*	11.04	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					11.04	0.00
pp956*	9.19	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					9.19	0.00
	275.75																					**220.28**	**11,209.36**	**8.60**	**671.22**	**46.87**	**620.57**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0514	2009	65049	Construction Limits for Modified Record Fire Range (MRF7)	7.55	359.53				
O0514	2009	65049	Access Road for Modified Record Fire Range (MRF7)	2.29	109.05				
O0514	2009	65554	Construct Training Area Roads, Paved	4.26	202.86				
O0514	2009	65049	Modified Record Fire Range (MRF7)	0.76	36.19				
O0515	2009	65554	Construct Training Area Roads, Paved			0.38	27.08		
O0516	2009	65043	Construction Limits for Modified Record Fire Range (MRF1)					0.71	36.34
O0519	2009	65049	Construction Limits for Modified Record Fire Range (MRF7)			1.37	128.78		
O0529	2009	65554	Construct Training Area Roads, Paved	2.46	121.70				
			2009 SUB-TOTAL	**17.32**	**829.33**	**1.75**	**155.86**	**0.71**	**36.34**
N0101	2010	65557	Repair Existing Training Area Roads, Phase 1					3.48	102.66
O0501	2010	65557	Repair Existing Training Area Roads, Phase 1	4.13	206.50				
O0513	2010	65557	Repair Existing Training Area Roads, Phase 1	1.55	79.83				
			2010 SUB-TOTAL	**5.68**	**286.33**	**0.00**	**0.00**	**3.48**	**102.66**
			TOTAL REMOVALS	**23.00**	**1,115.66**	**1.75**	**155.86**	**4.19**	**139.00**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**202.96**	**10,380.03**	**197.28**	**10,093.70**
Potentially Suitable Habitat	**6.85**	**515.36**	**6.85**	**515.36**
Future Potential Habitat	**46.16**	**584.23**	**42.68**	**481.57**
TOTAL	**255.97**	**11,479.62**	**246.81**	**11,090.63**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21U = Longleaf Pine Underplanted
22P = Slash Pine Plantation
31 = Loblolly Pine
31P = Loblolly Pine Plantation

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-216. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O05-01, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
N0101	12.97	75	21	9.55	3.50	8.65	6.00	13.65	23.50	1.43	1.27	0.78	2.00	29.50	35.00	5	28	8	3	1	4.16	PS					12.97	382.62
N0102	5.32	43	21U	5.79	2.50	0.00	0.00	7.16	12.50	24.81	0.00	0.00	0.00	12.50	15.00	4	30	0	3	1	3.42	PS					5.32	66.50
O0501	25.46	73	31	30.49	10.00	29.91	21.00	18.06	29.00	7.16	0.95	3.43	6.00	50.00	66.00	1	28	8	3	1	4.60	PS			25.46	1,273.00		
O0503	0.57	64	31	31.29	10.00	23.51	16.50	12.14	18.50	16.04	4.81	6.84	13.50	35.00	58.50	3	20	25	3	1	3.91	PS					0.57	19.95
O0505	32.13	49	31	25.96	6.50	15.83	11.50	26.33	44.00	5.22	0.53	0.69	1.50	55.50	63.50	2	42	3	3	1	4.52	PS					32.13	1,783.22
O0513	50.98	66	31	45.34	14.00	31.36	21.00	20.67	30.50	9.77	0.00	0.83	1.00	51.50	66.50	1	22	2	3	1	4.57	PS			50.98	2,625.47		
O0514	43.43	49	21	13.30	4.29	31.87	24.29	17.51	23.33	0.00	0.58	0.00	0.48	47.62	52.38	1	37	1	3	1	4.32	PS					43.43	2,068.14
O0515	6.03	49	22P	123.62	35.00	79.19	53.75	13.33	17.50	0.00	0.00	1.15	1.25	71.25	107.50	1	29	1	3	1	3.81	PS					6.03	429.64
O0516	3.35	26	31P	61.78	17.65	42.53	30.59	16.52	20.59	2.42	0.76	0.00	0.59	51.18	69.41	1	25	1	3	1	3.84	NH					3.35	171.45
O0519	2.57	53	31	205.40	58.00	56.10	40.00	33.74	54.00	0.00	0.00	0.00	0.00	94.00	152.00	1	28	0	3	1	4.36	PS					2.57	241.58
O0529	13.36	66	21	8.87	2.63	21.83	14.74	20.40	34.74	1.51	1.75	0.32	1.58	49.47	53.68	2	33	5	3	1	4.75	CS	13.36	660.92				
O0548	23.77	73	31	30.49	10.00	29.91	21.00	18.06	29.00	7.16	0.95	3.43	6.00	50.00	66.00	1	28	8	3	1	4.60	PS			23.77	1,188.50		
O0549	30.58	66	31	44.20	13.50	32.27	21.50	20.67	30.50	9.77	0.00	0.83	1.00	52.00	66.50	1	22	2	3	1	4.60	PS			30.58	1,590.16		
pp342*	3.10	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.10	0.00
pp695*	1.90	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.90	0.00
pp807*	11.04	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					11.04	0.00
pp956*	9.19	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					9.19	0.00
	275.75																						**13.36**	**660.92**	**130.79**	**6,677.13**	**131.60**	**5,163.10**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0514	2009	65049	Construction Limits for Modified Record Fire Range (MRF7)					7.55	359.53
O0514	2009	65049	Access Road for Modified Record Fire Range (MRF7)					2.29	109.05
O0514	2009	65554	Construct Training Area Roads, Paved					4.26	202.86
O0514	2009	65049	Modified Record Fire Range (MRF7)					0.76	36.19
O0515	2009	65554	Construct Training Area Roads, Paved					0.38	27.08
O0516	2009	65043	Construction Limits for Modified Record Fire Range (MRF1)					0.71	36.34
O0519	2009	65049	Construction Limits for Modified Record Fire Range (MRF7)					1.37	128.78
O0529	2009	65554	Construct Training Area Roads, Paved	2.46	121.70				
			2009 SUB-TOTAL	**2.46**	**121.70**	**0.00**	**0.00**	**17.32**	**899.83**
N0101	2010	65557	Repair Existing Training Area Roads, Phase 1					3.48	102.66
O0501	2010	65557	Repair Existing Training Area Roads, Phase			4.13	206.50		
O0513	2010	65557	Repair Existing Training Area Roads, Phase 1			1.55	79.83		
			2010 SUB-TOTAL	**0.00**	**0.00**	**5.68**	**286.33**	**3.48**	**102.66**
			TOTAL REMOVALS	**2.46**	**121.70**	**5.68**	**286.33**	**20.80**	**1,002.49**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**10.90**	**539.22**	**10.90**	**539.22**
Potentially Suitable Habitat	**130.79**	**6,677.13**	**125.11**	**6,390.80**
Future Potential Habitat	**114.28**	**4,263.27**	**110.80**	**4,160.61**
TOTAL	**255.97**	**11,479.62**	**246.81**	**11,090.63**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21U = Longleaf Pine Underplanted
22P = Slash Pine Plantation
31 = Loblolly Pine
31P = Loblolly Pine Plantation

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-217. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O05-02**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0303	12.56	94	21	14.69	4.50	12.74	9.50	16.77	26.50	10.95	0.00	0.00	0.00	36.00	40.50	1	35	0	3	1	1	12.56	452.16				
O0307	3.04	43	31	37.70	10.50	40.11	29.00	14.93	19.50	0.00	0.00	0.69	1.00	48.50	60.00	1	35	1	3	1	1	3.04	147.44				
O0514	23.95	49	21	13.30	4.29	31.87	24.29	17.51	23.33	0.00	0.58	0.00	0.48	47.62	52.38	1	37	1	3	1	1	23.95	1,140.50				
O0516	7.30	26	31P	61.78	17.65	42.53	30.59	16.52	20.59	2.42	0.76	0.00	0.59	51.18	69.41	1	25	1	3	1	0					7.30	373.61
O0519	1.83	53	31	205.40	58.00	56.10	40.00	33.74	54.00	0.00	0.00	0.00	0.00	94.00	152.00	1	28	0	3	1	0			1.83	172.02		
O0520	14.03	53	31P	97.66	30.00	29.56	19.00	5.05	6.00	0.00	0.00	0.00	0.00	25.00	55.00	1	40	0	3	1	0					14.03	350.75
O0526	8.53	50	21	88.37	27.89	37.94	25.26	6.62	9.47	0.00	0.00	1.34	2.11	34.74	64.74	1	29	3	3	1	0			8.53	296.33		
O0529	6.45	66	21	8.87	2.63	21.83	14.74	20.40	34.74	1.51	1.75	0.32	1.58	49.47	53.68	2	33	5	3	1	1	6.45	319.08				
O0530	16.61	55	21	10.21	2.00	12.76	9.50	17.25	27.50	1.93	0.00	0.00	0.00	37.00	39.00	1	29	0	3	1	1	16.61	614.57				
O0532	6.99	55	26	5.58	1.67	10.77	8.33	21.40	30.00	0.00	0.00	0.00	0.00	38.33	40.00	1	42	0	3	1	1	6.99	267.93				
O0533	4.46	52	21S	38.21	8.75	5.49	3.75	10.51	16.25	19.66	4.87	1.15	3.75	20.00	32.50	4	20	27	3	1	0					4.46	89.20
O0534	15.39	55	21	37.49	10.00	23.10	16.50	14.04	19.50	1.30	2.14	0.41	2.00	36.00	48.00	1	30	6	3	1	1	15.39	554.04				
O0538	0.29	53	31	38.18	12.50	64.35	46.25	4.60	5.00	0.00	0.00	0.00	0.00	51.25	63.75	2	16	0	3	1	1	0.29	14.86				
O0550	4.54	66	21	8.87	2.63	21.83	14.74	20.40	34.74	1.51	1.75	0.32	1.58	49.48	53.69	2	33	5	3	1	1	4.54	224.64				
O0551	3.13	49	21	13.30	4.29	31.87	24.29	17.51	23.33	0.00	0.58	0.00	0.48	47.62	52.39	1	33	1	3	1	1	3.13	149.05				
pp460*	4.05	14	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					4.05	0.00
pp535*	0.66	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.66	0.00
pp536*	0.96	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.96	0.00
	134.77																					**92.95**	**3,884.27**	**10.36**	**468.35**	**31.46**	**813.56**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0514	2009	65049	Construction Limits for Modified Record Fire Range (MRF7)	9.14	435.25				
O0514	2009	65049	Modified Record Fire Range (MRF7)	2.86	136.19				
O0514	2009	65036	Access Road for Basic 10M-25M Firing Range (Z2)	0.85	40.48				
O0514	2009	65036	Construction Limits for Basic 10M-25M Firing Range (Z2)	1.24	59.05				
O0516	2009	65049	Modified Record Fire Range (MRF7)					2.64	135.12
O0519	2009	65049	Modified Record Fire Range (MRF7)			0.89	83.66		
O0519	2009	65049	Construction Limits for Modified Record Fire Range (MRF7)			0.94	88.36		
O0520	2009	65049	Modified Record Fire Range (MRF7)					10.39	259.75
O0520	2009	65049	Construction Limits for Modified Record Fire Range (MRF7)					2.54	63.50
O0520	2009	65036	Construction Limits for Basic 10M-25M Firing Range (Z2					1.06	26.50
O0526	2009	65036	Construction Limits for Basic 10M-25M Firing Range (Z2)			0.39	13.55		
O0530	2009	65036	Access Road for Basic 10M-25M Firing Range (Z2)	1.60	59.20				
O0530	2009	65036	Construction Limits for Basic 10M-25M Firing Range (Z2)	0.03	1.11				
O0532	2009	65036	Construction Limits for Basic 10M-25M Firing Range (Z2)	0.85	32.58				
O0550	2009	65036	Access Road for Basic 10M-25M Firing Range (Z2)	1.12	55.42				
O0551	2009	65036	Construction Limits for Basic 10M-25M Firing Range (Z2)	0.35	16.67				
O0551	2009	65036	Access Road for Basic 10M-25M Firing Range (Z2)	1.67	79.53				
pp535*	2009	65049	Construction Limits for Modified Record Fire Range (MRF7)					0.02	0.00
pp535*	2009	65036	Construction Limits for Basic 10M-25M Firing Range (Z2)					0.37	0.00
pp536*	2009	65049	Construction Limits for Modified Record Fire Range (MRF7)					0.19	0.00
			2009 SUB-TOTAL	**19.71**	**915.48**	**2.22**	**185.57**	**17.21**	**484.87**
O0303	2010	65557	Repair Existing Training Area Roads, Phase 1	2.24	80.64				
O0307	2010	65557	Repair Existing Training Area Roads, Phase 1	1.05	50.93				
O0530	2010	65557	Repair Existing Training Area Roads, Phase 1	3.32	122.84				
O0534	2010	65557	Repair Existing Training Area Roads, Phase 1	0.11	3.96				
			2010 SUB-TOTAL	**6.72**	**258.37**	**0.00**	**0.00**	**0.00**	**0.00**
O0516	2011	65049	Beaten Area for Modified Record Fire Range (MRF7)					4.66	238.50
O0526	2011	65049	Beaten Area for Modified Record Fire Range (MRF7)			4.69	162.93		
O0526	2011	65036	Beaten Area for Basic 10M-25M Firing Range (Z2)			0.48	16.68		
O0532	2011	65036	Beaten Area for Basic 10M-25M Firing Range (Z2)	3.60	137.99				
O0533	2011	65036	Beaten Area for Basic 10M-25M Firing Range (Z2)					4.45	89.00
O0534	2011	65036	Beaten Area for Basic 10M-25M Firing Range (Z2)	1.32	47.52				
pp460*	2011	65036	Beaten Area for Basic 10M-25M Firing Range (Z2)					0.19	0.00
pp536*	2011	65049	Beaten Area for Modified Record Fire Range (MRF7)					0.77	0.00
			2011 SUB-TOTAL	**4.92**	**185.51**	**5.17**	**179.61**	**10.07**	**327.50**
			TOTAL REMOVALS	**31.35**	**1,359.36**	**7.39**	**365.17**	**27.28**	**812.36**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21S = Longleaf Pine Scrub Oak
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31P = Loblolly Pine Plantation

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Stands O0520, O0526, O0533 and pp535 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition.

POST-PROJECT	**2009**		**non-contigous habitat**		**2010**		**2011**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**73.24**	**2,968.79**	**0.00**	**0.00**	**66.52**	**2,710.42**	**61.60**	**2,524.91**
Potentially Suitable Habitat	**8.14**	**282.78**	**2.97**	**103.17**	**5.17**	**179.61**	**0.00**	**0.00**
Future Potential Habitat	**14.25**	**328.69**	**0.32**	**1.20**	**13.93**	**327.49**	**3.86**	**0.00**
TOTAL	**95.63**	**3,580.26**	**3.29**	**104.37**	**85.62**	**3,217.52**	**65.46**	**2,524.91**

Appendix Table H-218. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O05-02, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0303	12.56	94	21	14.69	4.50	12.74	9.50	16.77	26.50	10.95	0.00	0.00	0.00	36.00	40.50	1	35	0	3	1	4.54	PS					12.56	452.16
O0307	3.04	43	31	37.70	10.50	40.11	29.00	14.93	19.50	0.00	0.00	0.69	1.00	48.50	60.00	1	35	1	3	1	4.11	PS					3.04	147.44
O0514	23.95	49	21	13.30	4.29	31.87	24.29	17.51	23.33	0.00	0.58	0.00	0.48	47.62	52.38	1	37	1	3	1	4.32	PS					23.95	1,140.50
O0516	7.30	26	31P	61.78	17.65	42.53	30.59	16.52	20.59	2.42	0.76	0.00	0.59	51.18	69.41	1	25	1	3	1	3.84	NH					7.30	373.61
O0519	1.83	53	31	205.40	58.00	56.10	40.00	33.74	54.00	0.00	0.00	0.00	0.00	94.00	152.00	1	28	0	3	1	4.36	PS					1.83	172.02
O0520	14.03	53	31P	97.66	30.00	29.56	19.00	5.05	6.00	0.00	0.00	0.00	0.00	25.00	55.00	1	40	0	3	1	3.53	PS					14.03	350.75
O0526	8.53	50	21	88.37	27.89	37.94	25.26	6.62	9.47	0.00	0.00	1.34	2.11	34.74	64.74	1	29	3	3	1	3.46	PS					8.53	296.33
O0529	6.45	66	21	8.87	2.63	21.83	14.74	20.40	34.74	1.51	1.75	0.32	1.58	49.47	53.68	2	33	5	3	1	4.75	CS	6.45	319.08				
O0530	16.61	55	21	10.21	2.00	12.76	9.50	17.25	27.50	1.93	0.00	0.00	0.00	37.00	39.00	1	29	0	3	1	4.30	PS					16.61	614.57
O0532	6.99	55	26	5.58	1.67	10.77	8.33	21.40	30.00	0.00	0.00	0.00	0.00	38.33	40.00	1	42	0	3	1	4.66	PS					6.99	267.93
O0533	4.46	52	21S	38.21	8.75	5.49	3.75	10.51	16.25	19.66	4.87	1.15	3.75	20.00	32.50	4	20	27	3	1	3.57	PS					4.46	89.20
O0534	15.39	55	21	37.49	10.00	23.10	16.50	14.04	19.50	1.30	2.14	0.41	2.00	36.00	48.00	1	30	6	3	1	4.20	PS					15.39	554.04
O0538	0.29	53	31	38.18	12.50	64.35	46.25	4.60	5.00	0.00	0.00	0.00	0.00	51.25	63.75	2	16	0	3	1	3.24	PS					0.29	14.86
O0550	4.54	66	21	8.87	2.63	21.83	14.74	20.40	34.74	1.51	1.75	0.32	1.58	49.48	53.69	2	33	5	3	1	4.75	CS	4.54	224.64				
O0551	3.13	49	21	13.30	4.29	31.87	24.29	17.51	23.33	0.00	0.58	0.00	0.48	47.62	52.39	1	33	1	3	1	4.32	PS					3.13	149.05
pp460*	4.05	14	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					4.05	0.00
pp535*	0.66	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.66	0.00
pp536*	0.96	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.96	0.00
	134.77																						**10.99**	**543.72**	**0.00**	**0.00**	**123.78**	**4,622.46**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0514	2009	65049	Construction Limits for Modified Record Fire Range (MRF7)					9.14	435.25
O0514	2009	65049	Modified Record Fire Range (MRF7)					2.86	136.19
O0514	2009	65036	Access Road for Basic 10M-25M Firing Range (Z2)					0.85	40.48
O0514	2009	65036	Construction Limits for Basic 10M-25M Firing Range (Z2)					1.24	59.05
O0516	2009	65049	Modified Record Fire Range (MRF7)					2.64	135.12
O0519	2009	65049	Modified Record Fire Range (MRF7)					0.89	83.66
O0519	2009	65049	Construction Limits for Modified Record Fire Range (MRF7)					0.94	88.36
O0520	2009	65049	Modified Record Fire Range (MRF7)					10.39	259.75
O0520	2009	65049	Construction Limits for Modified Record Fire Range (MRF7)					2.54	63.50
O0520	2009	65036	Construction Limits for Basic 10M-25M Firing Range (Z2)					1.06	26.50
O0526	2009	65036	Construction Limits for Basic 10M-25M Firing Range (Z2)					0.39	13.55
O0530	2009	65036	Access Road for Basic 10M-25M Firing Range (Z2)					1.60	59.20
O0530	2009	65036	Construction Limits for Basic 10M-25M Firing Range (Z2)					0.03	1.11
O0532	2009	65036	Construction Limits for Basic 10M-25M Firing Range (Z2)					0.85	32.58
O0550	2009	65036	Access Road for Basic 10M-25M Firing Range (Z2)	1.12	55.42				
O0551	2009	65036	Construction Limits for Basic 10M-25M Firing Range (Z2)					0.35	16.67
O0551	2009	65036	Access Road for Basic 10M-25M Firing Range (Z2)					1.67	79.53
pp535*	2009	65049	Construction Limits for Modified Record Fire Range (MRF7)					0.02	0.00
pp535*	2009	65036	Construction Limits for Basic 10M-25M Firing Range (Z2)					0.37	0.00
pp536*	2009	65049	Construction Limits for Modified Record Fire Range (MRF7)					0.19	0.00
			2009 SUB-TOTAL	**1.12**	**55.42**	**0.00**	**0.00**	**38.02**	**1,530.50**
O0303	2010	65557	Repair Existing Training Area Roads, Phase 1					2.24	80.64
O0307	2010	65557	Repair Existing Training Area Roads, Phase 1					1.05	50.93
O0530	2010	65557	Repair Existing Training Area Roads, Phase 1					3.32	122.84
O0534	2010	65557	Repair Existing Training Area Roads, Phase 1					0.11	3.96
			2010 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**6.72**	**258.37**
O0516	2011	65049	Beaten Area for Modified Record Fire Range (MRF7)					4.66	238.50
O0526	2011	65049	Beaten Area for Modified Record Fire Range (MRF7)					4.69	162.93
O0526	2011	65036	Beaten Area for Basic 10M-25M Firing Range (Z2)					0.48	16.68
O0532	2011	65036	Beaten Area for Basic 10M-25M Firing Range (Z2)					3.60	137.99
O0533	2011	65036	Beaten Area for Basic 10M-25M Firing Range (Z2)					4.45	89.00
O0534	2011	65036	Beaten Area for Basic 10M-25M Firing Range (Z2)					1.32	47.52
pp460*	2011	65036	Beaten Area for Basic 10M-25M Firing Range (Z2)					0.19	0.00
pp536*	2011	65049	Beaten Area for Modified Record Fire Range (MRF7)					0.77	0.00
			2011 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**20.16**	**692.62**
			TOTAL REMOVALS	**1.12**	**55.42**	**0.00**	**0.00**	**64.90**	**2,481.49**

POST-PROJECT	**2009**		**non-contigous habitat**		**2010**		**2011**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**9.87**	**488.30**	**0.00**	**0.00**	**9.87**	**488.30**	**9.87**	**488.30**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**85.76**	**3,091.96**	**3.29**	**104.37**	**75.75**	**2,729.22**	**55.59**	**2,036.60**
TOTAL	**95.63**	**3,580.26**	**3.29**	**104.37**	**85.62**	**3,217.52**	**65.46**	**2,524.90**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0= no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21S = Longleaf Pine Scrub Oak
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31P = Loblolly Pine Plantation

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Stands O0526, O0533 and pp535 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition.

Appendix Table H-219. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O05-03R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0511	4.51	52	10	30.95	8.89	30.71	22.78	8.80	11.67	19.45	6.78	1.26	6.67	34.44	50.00	3	13	17	3	1	1	4.51	155.32				
O0516	5.36	26	31P	61.78	17.65	42.53	30.59	16.52	20.59	2.42	0.76	0.00	0.59	51.18	69.41	1	25	1	3	1	0					0.00	0.00
O0517	4.03	32	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					4.03	0.00
O0518	39.53	46	31	11.97	4.00	25.04	19.00	16.30	22.50	22.74	1.59	0.84	2.00	41.50	47.50	1	17	6	3	1	1	39.53	1,640.50				
O0523	2.87	82	31	204.92	50.00	51.33	40.00	10.14	15.00	0.00	0.00	0.00	0.00	55.00	105.00	1	15	0	3	1	0			2.87	157.85		
O0524	22.50	82	22P	8.99	3.50	15.26	11.50	13.52	18.00	20.96	3.08	0.92	3.50	29.50	36.50	1	29	12	3	1	0					22.50	663.75
O0525	72.82	82	25	15.63	6.00	19.61	14.50	22.61	33.50	4.05	3.35	0.29	3.00	48.00	57.00	1	39	8	3	1	1	72.82	3,495.36				
O0526	9.04	50	21	88.37	27.89	37.94	25.26	6.62	9.47	0.00	0.00	1.34	2.11	34.74	64.74	1	29	3	3	1	0			9.04	314.05		
O0533	4.50	52	21S	38.21	8.75	5.49	3.75	10.51	16.25	19.66	4.87	1.15	3.75	20.00	32.50	4	20	27	3	1	0					4.50	90.00
O0536	19.07	43	21	26.40	8.50	35.63	27.00	9.89	13.00	4.23	2.75	1.07	3.50	40.00	52.00	1	36	8	3	1	1	19.07	762.80				
O0539	2.42	43	21	29.39	9.00	15.43	11.50	13.62	19.50	13.46	5.50	0.95	5.00	31.00	45.00	1	28	18	3	1	1	2.42	75.02				
O0546	1.98	52	31	85.09	27.00	29.98	20.50	3.79	5.00	2.24	3.17	0.46	3.00	25.50	55.50	5	24	10	3	1	0					1.98	50.49
O0552	22.70	43	21	26.40	8.50	35.63	27.00	9.89	13.00	4.23	2.75	1.07	3.50	40.00	52.00	1	36	8	3	1	1	22.70	908.00				
O0553	13.62	43	21	29.39	9.00	15.43	11.50	13.62	19.50	13.46	5.50	0.95	5.00	31.00	45.00	1	28	18	3	1	1	13.62	422.22				
O0554	6.93	46	31	11.97	4.00	25.04	19.00	16.30	22.50	22.74	1.59	0.84	2.00	41.50	47.50	1	17	6	3	1	1	6.93	287.60				
O0612	0.06	69	31	0.00	0.00	11.37	10.00	9.99	20.00	0.00	0.00	0.00	0.00	30.00	30.00	1	50	0	3	1	1	0.06	1.80				
O0636	0.74	58	25	26.58	6.50	10.16	7.00	10.79	16.00	56.55	10.26	5.97	16.00	23.00	45.50	6	14	44	3	1	0					0.00	0.00
pp460*	6.02	14	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					6.02	0.00
pp536*	0.15	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp625*	4.49	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp953*	4.59	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					4.59	0.00
pp955*	0.83	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.83	0.00
	248.76																					**181.66**	**7,748.62**	**11.91**	**471.90**	**44.45**	**804.24**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0511	2009	65035	Basic 10M-25M Firing Range (Z1)	0.50	17.22				
O0511	2009	65035	Construction Limits for Basic 10M-25M Firing Range (Z1)	3.03	104.35				
O0517	2009	65043	Construction Limits for Modified Record Fire Range (MRF1)					2.27	0.00
O0518	2009	65035	Construction Limits for Basic 10M-25M Firing Range (Z1)	0.57	23.66				
O0518	2009	65043	Construction Limits for Modified Record Fire Range (MRF1)	5.40	224.10				
pp953*	2009	65043	Modified Record Fire Range (MRF1)					1.07	0.00
pp953*	2009	65043	Construction Limits for Modified Record Fire Range (MRF1)					3.52	0.00
pp955*	2009	65043	Modified Record Fire Range (MRF1)					0.55	0.00
			2009 SUB-TOTAL	**9.50**	**369.33**	**0.00**	**0.00**	**7.41**	**0.00**
O0517	2011	65043	Beaten Area for Modified Record Fire Range (MRF1)					0.46	0.00
O0518	2011	65035	Beaten Area for Basic 10M-25M Firing Range (Z1)	1.18	48.97				
O0518	2011	65043	Beaten Area for Modified Record Fire Range (MRF1)	16.23	673.55				
O0523	2011	65043	Beaten Area for Modified Record Fire Range (MRF1)			0.86	47.30		
O0523	2011	65049	Beaten Area for Modified Record Fire Range (MRF7)			2.01	110.55		
O0524	2011	65049	Beaten Area for Modified Record Fire Range (MRF7)					6.68	197.06
O0525	2011	65043	Beaten Area for Modified Record Fire Range (MRF1)	0.05	2.40				
O0526	2011	65049	Beaten Area for Modified Record Fire Range (MRF7)			6.45	224.07		
O0526	2011	65036	Beaten Area for Basic 10M-25M Firing Range (Z2)			0.16	5.56		
O0533	2011	65036	Beaten Area for Basic 10M-25M Firing Range (Z2)					2.47	49.40
O0533	2011	65049	Beaten Area for Modified Record Fire Range (MRF7)					0.36	7.20
pp460*	2011	65036	Beaten Area for Basic 10M-25M Firing Range (Z2)					1.81	0.00
pp955*	2011	65043	Beaten Area for Modified Record Fire Range (MRF1)					0.28	0.00
			2011 SUB-TOTAL	**17.46**	**724.92**	**9.48**	**387.48**	**12.06**	**253.66**
			TOTAL REMOVALS	**26.96**	**1,094.25**	**9.48**	**387.48**	**19.47**	**253.66**

POST-PROJECT	**2009 TOTAL**		**2011 TOTAL**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**172.16**	**7,379.29**	**154.70**	**6,654.37**
Potentially Suitable Habitat	**11.91**	**471.90**	**2.43**	**84.42**
Future Potential Habitat	**37.04**	**804.24**	**24.98**	**550.58**
SUB-TOTAL	**221.11**	**8,655.43**	**182.11**	**7,289.37**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21S = Longleaf Pine Scrub Oak
22P = Slash Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine
31P = Loblolly Pine Plantation
ND = No data provided

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-220. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O05-03R, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4 10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0511	4.51	52	10	30.95	8.89	30.71	22.78	8.80	11.67	19.45	6.78	1.26	6.67	34.44	50.00	3	13	17	3	1	3.47	PS					4.51	155.32
O0516	5.36	26	31P	61.78	17.65	42.53	30.59	16.52	20.59	2.42	0.76	0.00	0.59	51.18	69.41	1	25	1	3	1	3.84	NH					0.00	0.00
O0517	4.03	32	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.20	PS					4.03	0.00
O0518	39.53	46	31	11.97	4.00	25.04	19.00	16.30	22.50	22.74	1.59	0.84	2.00	41.50	47.50	1	17	6	3	1	4.12	PS					39.53	1,640.50
O0523	2.87	82	31	204.92	50.00	51.33	40.00	10.14	15.00	0.00	0.00	0.00	0.00	55.00	105.00	1	15	0	3	1	3.95	PS					2.87	157.85
O0524	22.50	82	22P	8.99	3.50	15.26	11.50	13.52	18.00	20.96	3.08	0.92	3.50	29.50	36.50	1	29	12	3	1	4.19	PS					22.50	663.75
O0525	72.82	82	25	15.63	6.00	19.61	14.50	22.61	33.50	4.05	3.35	0.29	3.00	48.00	57.00	1	39	8	3	1	4.75	CS	72.82	3,495.36				
O0526	9.04	50	21	88.37	27.89	37.94	25.26	6.62	9.47	0.00	0.00	1.34	2.11	34.74	64.74	1	29	3	3	1	3.46	PS					9.04	314.05
O0533	4.50	52	21S	38.21	8.75	5.49	3.75	10.51	16.25	19.66	4.87	1.15	3.75	20.00	32.50	4	20	27	3	1	3.57	PS					4.50	90.00
O0536	19.07	43	21	26.40	8.50	35.63	27.00	9.89	13.00	4.23	2.75	1.07	3.50	40.00	52.00	1	36	8	3	1	3.86	PS					19.07	762.80
O0539	2.42	43	21	29.39	9.00	15.43	11.50	13.62	19.50	13.46	5.50	0.95	5.00	31.00	45.00	1	28	18	3	1	3.82	PS					2.42	75.02
O0546	1.98	52	31	85.09	27.00	29.98	20.50	3.79	5.00	2.24	3.17	0.46	3.00	25.50	55.50	5	24	10	3	1	2.97	PS					1.98	50.49
O0552	22.70	43	21	26.40	8.50	35.63	27.00	9.89	13.00	4.23	2.75	1.07	3.50	40.00	52.00	1	36	8	3	1	3.86	PS					22.70	908.00
O0553	13.62	43	21	29.39	9.00	15.43	11.50	13.62	19.50	13.46	5.50	0.95	5.00	31.00	45.00	1	28	18	3	1	3.82	PS					13.62	422.22
O0554	6.93	46	31	11.97	4.00	25.04	19.00	16.30	22.50	22.74	1.59	0.84	2.00	41.50	47.50	1	17	6	3	1	4.12	PS					6.93	287.60
O0612	0.06	69	31	0.00	0.00	11.37	10.00	9.99	20.00	0.00	0.00	0.00	0.00	30.00	30.00	1	50	0	3	1	4.44	PS					0.06	1.80
O0636	0.74	58	25	26.58	6.50	10.16	7.00	10.79	16.00	56.55	10.26	5.97	16.00	23.00	45.50	6	14	44	3	1	3.30	PS					0.00	0.00
pp460*	6.02	14	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					6.02	0.00
pp536*	0.15	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp625*	4.49	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp953*	4.59	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					4.59	0.00
pp955*	0.83	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.83	0.00
	248.76																						**72.82**	**3,495.36**	**0.00**	**0.00**	**165.20**	**5,529.40**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0511	2009	65035	Basic 10M-25M Firing Range (Z1)					0.50	17.22
O0511	2009	65035	Construction Limits for Basic 10M-25M Firing Range (Z1)					3.03	104.35
O0517	2009	65043	Construction Limits for Modified Record Fire Range (MRF1)					2.27	0.00
O0518	2009	65035	Construction Limits for Basic 10M-25M Firing Range (Z1)					0.57	23.66
O0518	2009	65043	Construction Limits for Modified Record Fire Range (MRF1)					5.40	224.10
pp953*	2009	65043	Modified Record Fire Range (MRF1)					1.07	0.00
pp953*	2009	65043	Construction Limits for Modified Record Fire Range (MRF1)					3.52	0.00
pp955*	2009	65043	Modified Record Fire Range (MRF1)					0.55	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**16.91**	**369.33**
O0517	2011	65043	Beaten Area for Modified Record Fire Range (MRF1)					0.46	0.00
O0518	2011	65035	Beaten Area for Basic 10M-25M Firing Range (Z1)					1.18	48.97
O0518	2011	65043	Beaten Area for Modified Record Fire Range (MRF1)					16.23	673.55
O0523	2011	65043	Beaten Area for Modified Record Fire Range (MRF1)					0.86	47.30
O0523	2011	65049	Beaten Area for Modified Record Fire Range (MRF7)					2.01	110.55
O0524	2011	65049	Beaten Area for Modified Record Fire Range (MRF7)					6.68	197.06
O0525	2011	65043	Beaten Area for Modified Record Fire Range (MRF1)	0.05	2.40				
O0526	2011	65049	Beaten Area for Modified Record Fire Range (MRF7)					6.45	224.07
O0526	2011	65036	Beaten Area for Basic 10M-25M Firing Range (Z2)					0.16	5.56
O0533	2011	65036	Beaten Area for Basic 10M-25M Firing Range (Z2)					2.47	49.40
O0533	2011	65049	Beaten Area for Modified Record Fire Range (MRF7)					0.36	7.20
pp460*	2011	65036	Beaten Area for Basic 10M-25M Firing Range (Z2)					1.81	0.00
pp955*	2011	65043	Beaten Area for Modified Record Fire Range (MRF1)					0.28	0.00
			2011 SUB-TOTAL	**0.05**	**2.40**	**0.00**	**0.00**	**38.95**	**1,363.66**
			TOTAL REMOVALS	**0.05**	**2.40**	**0.00**	**0.00**	**55.86**	**1,732.99**

POST-PROJECT	**2009 TOTAL**		**2011 TOTAL**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**72.82**	**3,495.36**	**72.77**	**3,492.96**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**148.29**	**5,160.07**	**109.34**	**3,796.41**
TOTAL	**221.11**	**8,655.43**	**182.11**	**7,289.37**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21S = Longleaf Pine Scrub Oak
22P = Slash Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine
31P = Loblolly Pine Plantation
ND = No data provided

* Note: No pine data was collected for pine plantation stands less than 30 years old.
Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-221. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O07-01F**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgi

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0716	10.60	51	31	45.09	14.50	35.42	24.50	9.63	12.00	9.91	3.58	0.27	3.00	36.50	54.00	6	36	8	3	1	0			10.60	386.90		
O0717	38.06	48	31	9.17	3.00	21.85	16.00	16.32	26.50	12.59	8.71	4.06	13.00	42.50	58.50	6	26	25	3	1	0			38.06	1,617.55		
O0718	6.34	50	31	30.53	8.50	12.99	9.50	21.44	36.50	14.40	2.48	1.46	4.00	46.00	58.50	6	34	10	3	1	0			6.34	291.64		
O0721	6.27	50	31	98.46	28.57	35.28	27.14	14.15	21.43	9.32	0.00	1.18	1.43	48.57	78.57	1	47	2	3	1	0			6.27	304.53		
O0724	0.31	48	31	25.60	7.78	22.87	15.56	9.78	16.67	7.48	2.93	4.75	10.00	32.22	50.00	7	29	19	3	1	0			0.31	9.99		
O0726	16.35	51	31	6.37	1.58	11.60	8.95	21.61	35.79	6.04	1.38	0.99	2.63	44.74	48.95	8	38	7	3	1	0			16.35	731.50		
O0727	52.31	62	31	18.73	6.00	42.68	30.50	9.84	13.00	11.22	2.51	0.68	3.00	43.50	52.50	6	29	6	3	1	0			52.31	2,275.49		
O0729	1.50	48	31	30.53	8.00	17.76	13.50	18.09	26.00	14.54	7.26	2.59	8.50	39.50	56.00	6	27	22	3	1	0			1.50	59.25		
O0731	40.61	48	31	24.78	7.00	13.13	9.00	12.48	19.50	19.55	7.32	1.37	6.50	28.50	42.00	7	34	25	3	1	0					40.61	1,157.39
O0737	25.66	70	66**	37.29	9.50	2.90	2.00	4.99	8.50	40.04	12.86	4.22	15.50	10.50	35.50	6	30	68	3	1	0					0.00	0.00
O0764	17.18	70	13	35.12	10.00	8.48	5.50	7.74	13.50	57.90	11.63	4.17	15.00	19.00	44.00	2	14	49	3	1	0					0.00	0.00
pp275*	14.95	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp277*	4.40	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					4.40	0.00
pp278*	25.81	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					25.81	0.00
pp352*	1.11	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.11	0.00
pp746*	13.19	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp75*	3.45	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.45	0.00
pp76*	12.04	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					12.04	0.00
pp77*	5.38	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.38	0.00
pp951*	27.16	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp952*	8.69	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp1061*	3.53	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.53	0.00
	334.90																					**0.00**	**0.00**	**131.74**	**5,676.85**	**96.33**	**1,157.39**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0717	2009	65033	Access Road Fire and Movement Range (FM2)			5.23	222.28		
O0727	2009	65033	Access Road Fire and Movement Range (FM2)			5.62	244.47		
O0729	2009	65033	Construction Limits for Fire and Movement Range (FM2)			1.28	50.56		
O0731	2009	65033	Fire and Movement Range (FM2)					7.40	210.90
O0731	2009	65033	Access Road Fire and Movement Range (FM2)					1.73	49.31
O0731	2009	65033	Construction Limits for Fire and Movement Range (FM2)					18.04	514.14
pp75*	2009	65033	Fire and Movement Range (FM2)					0.18	0.00
pp75*	2009	65033	Construction Limits for Fire and Movement Range (FM2)					2.29	0.00
pp76*	2009	65033	Fire and Movement Range (FM2)					0.61	0.00
pp76*	2009	65033	Construction Limits for Fire and Movement Range (FM2)					4.96	0.00
pp1061*	2009	65033	Construction Limits for Fire and Movement Range (FM2)					0.01	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**12.13**	**517.31**	**35.22**	**774.35**
O0731	2011	65033	Beaten Area for Fire and Movement Range (FM2)					2.79	79.52
			2011 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**2.79**	**79.52**
			TOTAL REMOVALS	**0.00**	**0.00**	**12.13**	**517.31**	**38.01**	**853.87**

POST-PROJECT	**2009**		**2011**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**119.61**	**5,159.54**	**119.61**	**5,159.54**
Future Potential Habitat	**61.11**	**383.04**	**58.32**	**303.52**
TOTAL	**180.72**	**5,542.58**	**177.93**	**5,463.06**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21P = Longleaf Pine Plantation
31 = Loblolly Pine
66** = Oak-Hickory (managed for hardwoods)

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-222. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O07-01R, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0716	10.60	51	31	45.09	14.50	35.42	24.50	9.63	12.00	9.91	3.58	0.27	3.00	36.50	54.00	6	36	8	3	1	3.67	PS					10.60	386.90
O0717	38.06	48	31	9.17	3.00	21.85	16.00	16.32	26.50	12.59	8.71	4.06	13.00	42.50	58.50	6	26	25	3	1	3.80	PS					38.06	1,617.55
O0718	6.34	50	31	30.53	8.50	12.99	9.50	21.44	36.50	14.40	2.48	1.46	4.00	46.00	58.50	6	34	10	3	1	4.29	PS					6.34	291.64
O0721	6.27	50	31	98.46	28.57	35.28	27.14	14.15	21.43	9.32	0.00	1.18	1.43	48.57	78.57	1	47	2	3	1	4.43	PS					6.27	304.53
O0724	0.31	48	31	25.60	7.78	22.87	15.56	9.78	16.67	7.48	2.93	4.75	10.00	32.22	50.00	7	29	19	3	1	3.34	PS					0.31	9.99
O0726	16.35	51	31	6.37	1.58	11.60	8.95	21.61	35.79	6.04	1.38	0.99	2.63	44.74	48.95	8	38	7	3	1	4.27	PS					16.35	731.50
O0727	52.31	62	31	18.73	6.00	42.68	30.50	9.84	13.00	11.22	2.51	0.68	3.00	43.50	52.50	6	29	6	3	1	3.84	PS					52.31	2,275.49
O0729	1.50	48	31	30.53	8.00	17.76	13.50	18.09	26.00	14.54	7.26	2.59	8.50	39.50	56.00	6	27	22	3	1	3.94	PS					1.50	59.25
O0731	40.61	48	31	24.78	7.00	13.13	9.00	12.48	19.50	19.55	7.32	1.37	6.50	28.50	42.00	7	34	25	3	1	3.38	PS					40.61	1,157.39
O0737	25.66	70	66**	37.29	9.50	2.90	2.00	4.99	8.50	40.04	12.86	4.22	15.50	10.50	35.50	6	30	68	3	1	2.90	PS					0.00	0.00
O0764	17.18	70	13	35.12	10.00	8.48	5.50	7.74	13.50	57.90	11.63	4.17	15.00	19.00	44.00	2	14	49	3	1	3.29	PS					0.00	0.00
pp275*	14.95	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp277*	4.40	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					4.40	0.00
pp278*	25.81	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					25.81	0.00
pp352*	1.11	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.11	0.00
pp746*	13.19	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp75*	3.45	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.45	0.00
pp76*	12.04	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					12.04	0.00
pp77*	5.38	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					5.38	0.00
pp951*	27.16	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp952*	8.69	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp1061*	3.53	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.53	0.00
	334.90																						**0.00**	**0.00**	**0.00**	**0.00**	**228.07**	**6,834.24**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0717	2009	65033	Access Road Fire and Movement Range (FM2)					5.23	222.28
O0727	2009	65033	Access Road Fire and Movement Range (FM2)					5.62	244.47
O0729	2009	65033	Construction Limits for Fire and Movement Range (FM2)					1.28	50.56
O0731	2009	65033	Fire and Movement Range (FM2)					7.40	210.90
O0731	2009	65033	Access Road Fire and Movement Range (FM2)					1.73	49.31
O0731	2009	65033	Construction Limits for Fire and Movement Range (FM2)					18.04	514.14
pp75*	2009	65033	Fire and Movement Range (FM2)					0.18	0.00
pp75*	2009	65033	Construction Limits Fire and Movement Range (FM2)					2.29	0.00
pp76*	2009	65033	Fire and Movement Range (FM2)					0.61	0.00
pp76*	2009	65033	Construction Limits Fire and Movement Range (FM2)					4.96	0.00
pp1061*	2009	65033	Construction Limits Fire and Movement Range (FM2)					0.01	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**47.35**	**1,291.66**
O0731	2011	65033	Beaten Area for Fire and Movement Range (FM2)					2.79	79.52
			2011 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**2.79**	**79.52**
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**50.14**	**1,371.18**

POST-PROJECT	**2009**		**2011**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**180.72**	**5,542.58**	**177.93**	**5,463.06**
TOTAL	**180.72**	**5,542.58**	**177.93**	**5,463.06**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21P = Longleaf Pine Plantation
31 = Loblolly Pine
66** = Oak-Hickory (managed for hardwoods)

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-223. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O07-03R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K0304	0.47	44	22P	18.24	7.00	53.86	38.50	14.51	19.00	2.69	1.19	0.69	2.00	57.50	66.50	1	27	3	3	1	1	0.47	27.03				
K0401	7.41	59	21	18.49	5.00	7.40	5.00	9.46	15.50	1.11	9.44	4.64	12.50	20.50	38.00	1	21	46	3	1	0					7.41	151.91
K0407	27.97	45	31	36.69	11.50	23.54	15.50	13.56	20.50	1.36	1.71	0.00	1.00	36.00	48.50	2	24	4	3	1	1	27.97	1,006.92				
K0409	0.32	44	31	100.72	29.47	53.88	36.84	9.95	11.58	1.86	0.55	0.47	1.05	48.42	78.95	1	32	2	3	1	0			0.32	15.49		
K0411	0.47	45	26S	19.27	6.50	16.93	12.00	4.87	6.00	49.86	6.22	1.31	6.50	18.00	31.00	7	10	26	3	1	0					0.47	8.46
O0742	17.97	62	25	24.90	10.00	18.38	12.86	10.35	14.76	5.48	2.76	2.26	5.24	27.62	42.86	6	18	15	3	1	0					17.97	496.33
O0743	63.73	64	31	16.60	5.00	19.94	14.50	12.81	18.50	3.82	6.66	0.45	5.00	33.00	43.00	6	23	18	3	1	0			63.73	2,103.09		
O0744	24.12	59	31	11.74	4.00	17.52	11.50	9.10	15.00	5.97	3.00	2.77	6.50	26.50	37.00	2	35	18	3	1	0					24.12	639.18
O0748	40.05	49	31	20.36	6.50	25.05	17.50	8.69	12.00	13.50	2.61	0.34	2.00	29.50	38.00	6	19	8	3	1	0					40.05	1,181.48
O0752	44.84	72	21	8.80	3.00	9.69	6.50	11.85	18.50	6.36	0.00	0.00	0.00	25.00	28.00	2	40	0	3	1	0					44.84	1,121.00
O0753	11.28	72	31	6.79	2.50	6.11	5.00	14.67	25.63	3.94	4.14	1.98	5.63	30.63	38.75	8	34	23	3	1	0			11.28	345.51		
O0754	23.84	53	31	10.13	4.00	32.60	22.50	10.28	13.50	2.47	0.66	0.00	0.50	36.00	40.50	2	41	2	3	1	1	23.84	858.24				
O0756	15.05	49	31P	20.12	6.00	20.49	16.50	27.44	37.50	1.27	0.97	0.00	0.50	54.00	60.50	1	30	2	3	1	1	15.05	812.70				
O0761	31.44	69	31	9.56	3.16	7.30	5.26	12.04	20.00	4.07	1.68	3.38	6.32	25.26	34.74	8	40	21	3	1	0					31.44	794.17
O0763	6.69	47	31	45.66	12.00	12.89	8.00	12.05	20.00	0.00	3.82	0.00	2.00	28.00	42.00	1	38	13	3	1	0					6.69	187.32
O0904	0.06	48	31	54.00	17.00	19.96	14.00	8.68	11.50	12.99	7.55	0.93	7.00	25.50	49.50	7	27	23	3	1	0					0.06	1.53
O0906	5.83	51	31	40.34	13.53	31.51	21.18	8.96	12.35	4.30	3.06	1.10	4.12	33.53	51.18	1	22	9	3	1	1	5.83	195.48				
O0910	0.01	95	21	11.45	3.50	6.87	5.00	22.85	35.00	19.02	3.71	1.99	6.00	40.00	49.50	1	33	16	3	1	1	0.01	0.40				
pp272*	0.75	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.75	0.00
pp353*	4.15	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					4.15	0.00
pp354*	9.61	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					9.61	0.00
pp746*	7.92	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					7.92	0.00
pp951*	2.15	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.15	0.00
	346.13																					**73.17**	**2,900.77**	**75.33**	**2,464.09**	**197.63**	**4,581.38**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K0304	2009	65554	Construct Training Area Roads Paved	0.25	14.38				
K0401	2009	65554	Construct Training Area Roads Paved					1.54	31.57
K0407	2009	65554	Construct Training Area Roads Paved	6.53	235.08				
O0744	2009	65554	Construct Training Area Roads Paved					0.07	1.86
O0752	2009	65554	Construct Training Area Roads Paved					0.91	22.75
O0756	2009	65554	Construct Training Area Roads Paved	0.70	37.80				
O0761	2009	65554	Construct Training Area Roads Paved					5.06	127.82
O0763	2009	65554	Construct Training Area Roads Paved					1.68	47.04
O0904	2009	65554	Construct Training Area Roads Paved					0.06	1.53
O0906	2009	65554	Construct Training Area Roads Paved	1.86	62.37				
pp353*	2009	65554	Construct Training Area Roads Paved					0.51	0.00
pp354*	2009	65554	Construct Training Area Roads Paved					1.00	0.00
			TOTAL REMOVALS	**9.34**	**349.63**	**0.00**	**0.00**	**10.83**	**232.57**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**63.83**	**2,551.14**
Potentially Suitable Habitat	**75.33**	**2,464.09**
Future Potential Habitat	**186.80**	**4,348.81**
TOTAL	**325.96**	**9,364.04**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
25 = Mixed Pine
26S = Mixed Pine-Longleaf Scrub Oak
31 = Loblolly Pine
31P = Loblolly Pine Plantation

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Appendix Table H-224. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O07-03R, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K0304	0.47	44	22P	18.24	7.00	53.86	38.50	14.51	19.00	2.69	1.19	0.69	2.00	57.50	66.50	1	27	3	3	1	4.08	PS					0.47	27.03
K0401	7.41	59	21	18.49	5.00	7.40	5.00	9.46	15.50	1.11	9.44	4.64	12.50	20.50	38.00	1	21	46	3	1	3.66	PS					7.41	151.91
K0407	27.97	45	31	36.69	11.50	23.54	15.50	13.56	20.50	1.36	1.71	0.00	1.00	36.00	48.50	2	24	4	3	1	4.10	PS					27.97	1,006.92
K0409	0.32	44	31	100.72	29.47	53.88	36.84	9.95	11.58	1.86	0.55	0.47	1.05	48.42	78.95	1	32	2	3	1	3.76	PS					0.32	15.49
K0411	0.47	45	26S	19.27	6.50	16.93	12.00	4.87	6.00	49.86	6.22	1.31	6.50	18.00	31.00	7	10	26	3	1	2.51	PS					0.47	8.46
O0742	17.97	62	25	24.90	10.00	18.38	12.86	10.35	14.76	5.48	2.76	2.26	5.24	27.62	42.86	6	18	15	3	1	3.46	PS					17.97	496.33
O0743	63.73	64	31	16.60	5.00	19.94	14.50	12.81	18.50	3.82	6.66	0.45	5.00	33.00	43.00	6	23	18	3	1	3.80	PS					63.73	2,103.09
O0744	24.12	59	31	11.74	4.00	17.52	11.50	9.10	15.00	5.97	3.00	2.77	6.50	26.50	37.00	2	35	18	3	1	3.89	PS					24.12	639.18
O0748	40.05	49	31	20.36	6.50	25.05	17.50	8.69	12.00	13.50	2.61	0.34	2.00	29.50	38.00	6	19	8	3	1	3.19	PS					40.05	1,181.48
O0752	44.84	72	21	8.80	3.00	9.69	6.50	11.85	18.50	6.36	0.00	0.00	0.00	25.00	28.00	2	40	0	3	1	4.25	PS					44.84	1,121.00
O0753	11.28	72	31	6.79	2.50	6.11	5.00	14.67	25.63	3.94	4.14	1.98	5.63	30.63	38.75	8	34	23	3	1	4.03	PS					11.28	345.51
O0754	23.84	53	31	10.13	4.00	32.60	22.50	10.28	13.50	2.47	0.66	0.00	0.50	36.00	40.50	2	41	2	3	1	4.08	PS					23.84	858.24
O0756	15.05	49	31P	20.12	6.00	20.49	16.50	27.44	37.50	1.27	0.97	0.00	0.50	54.00	60.50	1	30	2	3	1	4.46	PS					15.05	812.70
O0761	31.44	69	31	9.56	3.16	7.30	5.26	12.04	20.00	4.07	1.68	3.38	6.32	25.26	34.74	8	40	21	3	1	3.92	PS					31.44	794.17
O0763	6.69	47	31	45.66	12.00	12.89	8.00	12.05	20.00	0.00	3.82	0.00	2.00	28.00	42.00	1	38	13	3	1	3.92	PS					6.69	187.32
O0904	0.06	48	31	54.00	17.00	19.96	14.00	8.68	11.50	12.99	7.55	0.93	7.00	25.50	49.50	7	27	23	3	1	2.91	PS					0.06	1.53
O0906	5.83	51	31	40.34	13.53	31.51	21.18	8.96	12.35	4.30	3.06	1.10	4.12	33.53	51.18	1	22	9	3	1	3.49	PS					5.83	195.48
O0910	0.01	95	21	11.45	3.50	6.87	5.00	22.85	35.00	19.02	3.71	1.99	6.00	40.00	49.50	1	33	16	3	1	4.62	CS	0.01	0.40				
pp272*	0.75	10	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.75	0.00
pp353*	4.15	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					4.15	0.00
pp354*	9.61	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					9.61	0.00
pp746*	7.92	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					7.92	0.00
pp951*	2.15	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.15	0.00
	346.13																						**0.01**	**0.40**	**0.00**	**0.00**	**346.12**	**9,945.84**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K0304	2009	65554	Construct Training Area Roads Paved					0.25	14.38
K0401	2009	65554	Construct Training Area Roads Paved					1.54	31.57
K0407	2009	65554	Construct Training Area Roads Paved					6.53	235.08
O0744	2009	65554	Construct Training Area Roads Paved					0.07	1.86
O0752	2009	65554	Construct Training Area Roads Paved					0.91	22.75
O0756	2009	65554	Construct Training Area Roads Paved					0.70	37.80
O0761	2009	65554	Construct Training Area Roads Paved					5.06	127.82
O0763	2009	65554	Construct Training Area Roads Paved					1.68	47.04
O0904	2009	65554	Construct Training Area Roads Paved					0.06	1.53
O0906	2009	65554	Construct Training Area Roads Paved					1.86	62.37
pp353*	2009	65554	Construct Training Area Roads Paved					0.51	0.00
pp354*	2009	65554	Construct Training Area Roads Paved					1.00	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**20.17**	**582.20**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.01**	**0.40**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**325.95**	**9,363.64**
TOTAL	**325.96**	**9,364.04**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
25 = Mixed Pine
26S = Mixed Pine-Longleaf Scrub Oak
31 = Loblolly Pine
31P = Loblolly Pine Plantation

* **Note:** No pine data was taken for pine plantation stands less than 30 years old.

Appendix Table H-225. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O08-01F**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgi

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0749	9.10	86	31	22.29	6.36	11.47	9.09	4.98	9.09	7.88	1.35	1.38	3.64	18.18	28.18	7	35	14	3	1	0					9.10	165.44
O0759	23.36	86	31	14.52	4.00	13.27	10.00	16.03	27.50	46.63	6.50	10.96	22.00	37.50	63.50	7	9	37	3	1	0			23.36	876.00		
O0760	4.57	51	31	31.15	8.00	14.48	10.00	12.15	16.50	12.07	0.63	2.13	4.50	26.50	39.00	1	35	9	3	1	0					4.57	121.11
O0803	101.10	81	31	15.67	5.00	7.08	5.00	12.49	22.00	2.60	0.72	2.77	6.00	27.00	38.00	1	31	15	3	1	0					101.10	2,729.70
O0803	0.03	81	31U	15.67	5.00	7.08	5.00	12.49	22.00	2.60	0.72	2.77	6.00	27.00	38.00	1	31	15	3	1	0					0.03	0.81
O0810	0.01	62	31	26.74	8.57	15.41	11.43	12.54	18.10	2.20	0.00	0.41	0.95	29.52	39.05	1	33	1	3	1	0					0.00	0.00
O0811	0.38	63	31	8.54	3.33	18.63	13.89	14.77	21.67	23.17	3.02	1.14	3.89	35.56	42.78	1	23	11	3	1	1	0.38	13.51				
O0822	30.50	81	21U	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					30.50	0.00
O0901	26.50	47	31	56.65	16.00	26.28	18.00	8.53	11.50	6.05	5.73	1.65	6.50	29.50	52.00	6	29	17	3	1	0					26.50	781.75
O0904	0.01	48	31	54.00	17.00	19.96	14.00	8.68	11.50	12.99	7.55	0.93	7.00	25.50	49.50	7	27	23	3	1	0					0.00	0.00
O0908	12.68	112	31	21.80	7.50	14.15	11.00	14.82	20.50	3.52	1.38	0.00	1.00	31.50	40.00	2	37	5	3	1	1	12.68	399.42				
O0913	0.02	36	31	61.32	19.50	19.95	14.00	5.71	8.50	6.23	1.77	2.77	5.50	22.50	47.50	2	22	15	3	1	0					0.02	0.45
O0954	10.10	51	31	63.61	17.00	40.07	29.00	18.65	23.50	9.49	0.56	0.65	1.50	52.50	71.00	6	30	2	3	1	0			0.00	0.00		
pp355*	2.79	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp357*	4.19	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					4.19	0.00
pp358*	1.17	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.17	0.00
pp359*	6.49	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					6.49	0.00
pp360*	2.42	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.42	0.00
pp817*	13.88	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp919*	6.41	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					6.41	0.00
	255.71																					**13.06**	**412.93**	**23.36**	**876.00**	**192.50**	**3,799.26**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0760	2009	65554	Construct Training Area Roads Paved					0.68	18.02
O0803	2009	65554	Construct Training Area Roads Paved					3.90	105.30
O0811	2009	65554	Construct Training Area Roads Paved	0.12	4.27				
O0822	2009	65554	Construct Training Area Roads Paved					0.76	0.00
O0901	2009	65554	Construct Training Area Roads Paved					3.46	102.07
O0908	2009	65554	Construct Training Area Roads Paved	2.93	92.30				
pp359*	2009	65554	Construct Training Area Roads Paved					0.82	0.00
			2009 SUB-TOTAL	**3.05**	**96.57**	**0.00**	**0.00**	**9.62**	**225.39**
O0749	2010	65557	Repair Existing Training Area Roads, Phase 1					0.31	5.64
O0759	2010	65557	Repair Existing Training Area Roads, Phase 1			3.48	130.50		
pp359*	2010	65557	Repair Existing Training Area Roads, Phase 1					1.53	0.00
pp360*	2010	65557	Repair Existing Training Area Roads, Phase 1					1.47	0.00
			2010 SUB-TOTAL	**0.00**	**0.00**	**3.48**	**130.50**	**3.31**	**5.64**
			TOTAL REMOVALS	**3.05**	**96.57**	**3.48**	**130.50**	**12.93**	**231.03**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**10.01**	**316.36**	**10.01**	**316.36**
Potentially Suitable Habitat	**23.36**	**876.00**	**19.88**	**745.50**
Future Potential Habitat	**182.88**	**3,573.87**	**179.57**	**3,568.23**
TOTAL	**216.25**	**4,766.23**	**209.46**	**4,630.09**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21P = Longleaf Pine Plantation
21U = Longleaf Pine Plantiation Underplanted
31U = Loblolly Pine Underplanted

* Note: No pine data was collected for pine plantation stands less than 30 years old.
Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-226. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O08-01, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0749	9.10	86	31	22.29	6.36	11.47	9.09	4.98	9.09	7.88	1.35	1.38	3.64	18.18	28.18	7	35	14	3	1	3.10	PS					9.10	165.44
O0759	23.36	86	31	14.52	4.00	13.27	10.00	16.03	27.50	46.63	6.50	10.96	22.00	37.50	63.50	7	9	37	3	1	3.65	PS					23.36	876.00
O0760	4.57	51	31	31.15	8.00	14.48	10.00	12.15	16.50	12.07	0.63	2.13	4.50	26.50	39.00	1	35	9	3	1	3.99	PS					4.57	121.11
O0803	101.10	81	31	15.67	5.00	7.08	5.00	12.49	22.00	2.60	0.72	2.77	6.00	27.00	38.00	1	31	15	3	1	4.28	PS					101.10	2,729.70
O0803	0.03	81	31U	15.67	5.00	7.08	5.00	12.49	22.00	2.60	0.72	2.77	6.00	27.00	38.00	1	31	15	3	1	4.28	PS					0.03	0.81
O0810	0.01	62	31	26.74	8.57	15.41	11.43	12.54	18.10	2.20	0.00	0.41	0.95	29.52	39.05	1	33	1	3	1	4.18	PS					0.00	0.00
O0811	0.38	63	31	8.54	3.33	18.63	13.89	14.77	21.67	23.17	3.02	1.14	3.89	35.56	42.78	1	23	11	3	1	4.38	PS					0.38	13.51
O0822	30.50	81	21U	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.62	PS					30.50	0.00
O0901	26.50	47	31	56.65	16.00	26.28	18.00	8.53	11.50	6.05	5.73	1.65	6.50	29.50	52.00	6	29	17	3	1	3.08	PS					26.50	781.75
O0904	0.01	48	31	54.00	17.00	19.96	14.00	8.68	11.50	12.99	7.55	0.93	7.00	25.50	49.50	7	27	23	3	1	2.91	PS					0.00	0.00
O0908	12.68	112	31	21.80	7.50	14.15	11.00	14.82	20.50	3.52	1.38	0.00	1.00	31.50	40.00	2	37	5	3	1	4.48	PS					12.68	399.42
O0913	0.02	36	31	61.32	19.50	19.95	14.00	5.71	8.50	6.23	1.77	2.77	5.50	22.50	47.50	2	22	15	3	1	3.04	PS					0.02	0.45
O0954	10.10	51	31	63.61	17.00	40.07	29.00	18.65	23.50	9.49	0.56	0.65	1.50	52.50	71.00	6	30	2	3	1	4.28	PS					0.00	0.00
pp355*	2.79	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp357*	4.19	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					4.19	0.00
pp358*	1.17	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.17	0.00
pp359*	6.49	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					6.49	0.00
pp360*	2.42	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	NH					2.42	0.00
pp817*	13.88	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp919*	6.41	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					6.41	0.00
	255.71																						**0.00**	**0.00**	**0.00**	**0.00**	**228.92**	**5,088.19**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0760	2009	65554	Construct Training Area Roads Paved					0.68	18.02
O0803	2009	65554	Construct Training Area Roads Paved					3.90	105.30
O0811	2009	65554	Construct Training Area Roads Paved					0.12	4.27
O0822	2009	65554	Construct Training Area Roads Paved					0.76	0.00
O0901	2009	65554	Construct Training Area Roads Paved					3.46	102.07
O0908	2009	65554	Construct Training Area Roads Paved					2.93	92.30
pp359*	2009	65554	Construct Training Area Roads Paved					0.82	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**12.67**	**321.96**
O0749	2010	65557	Repair Existing Training Area Roads, Phase 1					0.31	5.64
O0759	2010	65557	Repair Existing Training Area Roads, Phase 1					3.48	130.50
pp359*	2010	65557	Repair Existing Training Area Roads, Phase 1					1.53	0.00
pp360*	2010	65557	Repair Existing Training Area Roads, Phase 1					1.47	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**6.79**	**136.14**
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**19.46**	**458.10**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**216.25**	**4,766.23**	**209.46**	**4,630.09**
TOTAL	**216.25**	**4,766.23**	**209.46**	**4,630.09**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21P = Longleaf Pine Plantation
21U = Longleaf Pine Underplanted
31 = Loblolly Pine
31U = Loblolly Pine Underplanted

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-227. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Clust **O08-02, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgi

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0807	11.58	0	66**	8.96	2.50	9.13	6.00	1.82	3.50	57.64	31.32	7.33	32.50	9.50	44.50	7	21	78	3	1	0					0.00	0.00
O0808	27.76	83	31	22.50	6.36	5.91	4.09	9.76	14.09	13.83	7.32	1.08	6.36	18.18	30.91	6	20	35	3	1	0					27.76	504.68
O0810	34.41	62	31	26.74	8.57	15.41	11.43	12.54	18.10	2.20	0.00	0.41	0.95	29.52	39.05	1	33	1	3	1	0					34.41	1,015.78
O0811	24.61	63	31	8.54	3.33	18.63	13.89	14.77	21.67	23.17	3.02	1.14	3.89	35.56	42.78	1	23	11	3	1	1	24.61	875.13				
O0814	25.01	23	31	59.59	15.00	27.94	19.00	2.47	3.00	38.46	11.48	1.78	11.00	22.00	48.00	1	17	30	3	1	0					25.01	550.22
O0816	6.97	23	31	10.22	4.00	42.12	32.00	9.56	12.00	0.00	0.00	0.00	0.00	44.00	48.00	2	32	0	3	1	0					6.97	306.68
O0819	3.82	90	31	61.73	18.00	12.76	10.00	6.25	9.50	67.54	9.89	2.50	10.00	19.50	47.50	1	4	39	3	1	0					3.82	74.49
O0913	19.09	36	31	61.32	19.50	19.95	14.00	5.71	8.50	6.23	1.77	2.77	5.50	22.50	47.50	2	22	15	3	1	0					19.09	429.53
O0918	37.64	65	21	27.41	7.65	14.93	10.59	12.05	18.24	16.03	3.96	4.89	9.41	28.82	45.88	6	25	25	3	1	0					37.64	1,084.78
O0919	19.08	96	21	28.41	8.50	23.88	16.50	20.05	32.00	0.00	5.59	0.60	5.50	48.50	62.50	2	35	12	3	1	1	19.08	925.38				
O0928	0.80	63	31	81.35	24.74	31.37	21.58	6.96	10.00	22.27	5.83	3.93	10.53	31.58	66.84	9	7	20	3	1	0			0.80	25.26		
O0929	0.05	63	21	16.06	4.50	10.84	8.00	11.70	17.50	4.32	1.65	0.00	1.00	25.50	31.00	2	29	7	3	1	0					0.05	1.28
O0953	23.80	51	31	27.40	9.00	31.78	22.00	7.29	9.50	20.51	5.30	0.25	4.50	31.50	45.00	7	24	12	3	1	0			23.80	749.70		
O0954	9.40	51	31	63.61	17.00	40.07	29.00	18.65	23.50	9.49	0.56	0.65	1.50	52.50	71.00	6	30	2	3	1	0			9.40	493.50		
O1001	3.01	23	31P	7.38	3.33	48.76	33.33	5.99	6.67	0.00	0.00	0.00	0.00	40.00	43.33	8	17	0	3	1	0					3.01	120.40
O1003	2.87	90	31	114.52	30.00	5.37	3.16	7.23	10.53	9.86	0.55	0.00	0.53	13.68	44.21	6	20	4	3	1	0					2.87	39.26
pp356*	0.89	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.89	0.00
pp748*	15.43	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					15.43	0.00
pp801*	5.91	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.91	0.00
pp802*	5.92	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.92	0.00
pp817*	10.78	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					10.78	0.00
	288.83																					**43.69**	**1,800.51**	**34.00**	**1,268.46**	**199.56**	**4,127.10**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0810	2009	65554	Construct Training Area Roads, Paved					2.41	71.14
O0811	2009	65554	Construct Training Area Roads, Paved	3.70	131.57				
O0816	2009	65554	Construct Training Area Roads, Paved					0.91	40.04
O0913	2009	65554	Construct Training Area Roads, Paved					4.49	101.03
O0918	2009	65554	Construct Training Area Roads, Paved					4.52	130.27
O1001	2009	65554	Construct Training Area Roads, Paved					1.07	42.80
pp748*	2009	65554	Construct Training Area Roads, Paved					0.70	0.00
			TOTAL REMOVALS	**3.70**	**131.57**	**0.00**	**0.00**	**14.10**	**385.28**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**39.99**	**1,668.94**
Potentially Suitable Habitat	**34.00**	**1,268.46**
Future Potential Habitat	**185.46**	**3,741.82**
TOTAL	**259.45**	**6,679.22**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
31P = Loblolly Pine Plantation
66** = Oak-Hickory

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-228. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O08-02, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0807	11.58	0	66**	8.96	2.50	9.13	6.00	1.82	3.50	57.64	31.32	7.33	32.50	9.50	44.50	7	21	78	3	1	2.13	NH					0.00	0.00
O0808	27.76	83	31	22.50	6.36	5.91	4.09	9.76	14.09	13.83	7.32	1.08	6.36	18.18	30.91	6	20	35	3	1	3.37	PS					27.76	504.68
O0810	34.41	62	31	26.74	8.57	15.41	11.43	12.54	18.10	2.20	0.00	0.41	0.95	29.52	39.05	1	33	1	3	1	4.18	PS					34.41	1,015.78
O0811	24.61	63	31	8.54	3.33	18.63	13.89	14.77	21.67	23.17	3.02	1.14	3.89	35.56	42.78	1	23	11	3	1	4.38	PS					24.61	875.13
O0814	25.01	23	31	59.59	15.00	27.94	19.00	2.47	3.00	38.46	11.48	1.78	11.00	22.00	48.00	1	17	30	3	1	2.34	NH					25.01	550.22
O0816	6.97	23	31	10.22	4.00	42.12	32.00	9.56	12.00	0.00	0.00	0.00	0.00	44.00	48.00	2	32	0	3	1	3.61	NH					6.97	306.68
O0819	3.82	90	31	61.73	18.00	12.76	10.00	6.25	9.50	67.54	9.89	2.50	10.00	19.50	47.50	1	4	39	3	1	3.01	PS					3.82	74.49
O0913	19.09	36	31	61.32	19.50	19.95	14.00	5.71	8.50	6.23	1.77	2.77	5.50	22.50	47.50	2	22	15	3	1	3.04	PS					19.09	429.53
O0918	37.64	65	21	27.41	7.65	14.93	10.59	12.05	18.24	16.03	3.96	4.89	9.41	28.82	45.88	6	25	25	3	1	3.66	PS					37.64	1,084.78
O0919	19.08	96	21	28.41	8.50	23.88	16.50	20.05	32.00	0.00	5.59	0.60	5.50	48.50	62.50	2	35	12	3	1	4.66	PS			19.08	925.38		
O0928	0.80	63	31	81.35	24.74	31.37	21.58	6.96	10.00	22.27	5.83	3.93	10.53	31.58	66.84	9	7	20	3	1	2.62	PS					0.80	25.26
O0929	0.05	63	21	16.06	4.50	10.84	8.00	11.70	17.50	4.32	1.65	0.00	1.00	25.50	31.00	2	29	7	3	1	4.05	PS					0.05	1.28
O0953	23.80	51	31	27.40	9.00	31.78	22.00	7.29	9.50	20.51	5.30	0.25	4.50	31.50	45.00	7	24	12	3	1	3.10	PS					23.80	749.70
O0954	9.40	51	31	63.61	17.00	40.07	29.00	18.65	23.50	9.49	0.56	0.65	1.50	52.50	71.00	6	30	2	3	1	4.28	PS					9.40	493.50
O1001	3.01	23	31P	7.38	3.33	48.76	33.33	5.99	6.67	0.00	0.00	0.00	0.00	40.00	43.33	8	17	0	3	1	2.77	NH					3.01	120.40
O1003	2.87	90	31	114.52	30.00	5.37	3.16	7.23	10.53	9.86	0.55	0.00	0.53	13.68	44.21	6	20	4	3	1	3.33	PS					2.87	39.26
pp356*	0.89	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.89	0.00
pp748*	15.43	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					15.43	0.00
pp801*	5.91	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					5.91	0.00
pp802*	5.92	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					5.92	0.00
pp817*	10.78	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					10.78	0.00
	288.83																						**0.00**	**0.00**	**19.08**	**925.38**	**258.17**	**6,270.69**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0810	2009	65554	Construct Training Area Roads, Paved					2.41	71.14
O0811	2009	65554	Construct Training Area Roads, Paved					3.70	131.57
O0816	2009	65554	Construct Training Area Roads, Paved					0.91	40.04
O0913	2009	65554	Construct Training Area Roads, Paved					4.49	101.03
O0918	2009	65554	Construct Training Area Roads, Paved					4.52	130.27
O1001	2009	65554	Construct Training Area Roads, Paved					1.07	42.80
pp748*	2009	65554	Construct Training Area Roads, Paved					0.70	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**17.80**	**516.85**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**19.08**	**925.38**
Future Potential Habitat	**240.37**	**5,753.84**
TOTAL	**259.45**	**6,679.22**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
31P = Loblolly Pine Plantation
66** = Oak-Hickory

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-229. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O09-02**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0914	25.02	51	31	64.78	18.13	28.46	19.38	12.79	16.25	18.50	6.38	2.80	7.50	35.63	61.25	2	30	18	3	1	1	25.02	891.46				
O0915	2.41	36	57**	51.04	12.00	6.21	4.00	0.37	0.50	24.49	1.83	0.00	1.00	4.50	17.50	1	20	22	3	1	0					0.00	0.00
O0918	39.16	65	21	27.41	7.65	14.93	10.59	12.05	18.24	16.03	3.96	4.89	9.41	28.82	45.88	6	25	25	3	1	0					39.16	1,128.59
O0919	43.54	96	21	28.41	8.50	23.88	16.50	20.05	32.00	0.00	5.59	0.60	5.50	48.50	62.50	2	35	12	3	1	1	43.54	2,111.69				
O0922	42.46	0	NM	25.88	7.37	25.32	17.37	23.72	34.74	6.56	3.91	0.70	3.68	52.11	63.16	1	28	9	3	1	0					0.00	0.00
O0925	28.52	95	21S	17.27	4.50	6.18	5.00	11.05	14.00	11.48	2.26	0.00	1.50	19.00	25.00	6	30	12	3	1	0					28.52	541.88
O0929	16.42	63	21	16.06	4.50	10.84	8.00	11.70	17.50	4.32	1.65	0.00	1.00	25.50	31.00	2	29	7	3	1	0					16.42	418.71
O0931	32.07	98	26	37.01	11.50	25.65	17.50	6.14	8.00	18.33	5.62	2.00	6.50	25.50	43.50	2	47	19	3	1	0					32.07	817.79
O0953	2.36	51	31	27.40	9.00	31.78	22.00	7.29	9.50	20.51	5.30	0.25	4.50	31.50	45.00	7	24	12	3	1	0			2.36	74.34		
O0954	6.22	51	31	63.61	17.00	40.07	29.00	18.65	23.50	9.49	0.56	0.65	1.50	52.50	71.00	6	30	2	3	1	0			6.22	326.55		
	238.18																					**68.56**	**3,003.15**	**8.58**	**400.89**	**116.17**	**2,906.97**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0918	2009	65383	Stationary Tank Range (ST2)					4.17	120.18
O0918	2009	65383	Construction Limits for Stationary Tank Range (ST2)					4.02	115.86
O0925	2009	65383	Stationary Tank Range (ST2)					0.85	16.15
O0925	2009	65383	Construction Limits for Stationary Tank Range (ST2)					2.97	56.43
O0929	2009	65383	Stationary Tank Range (ST2)					0.88	22.44
O0929	2009	65383	Construction Limits for Stationary Tank Range (ST2)					1.71	43.61
O0931	2009	65383	Stationary Tank Range (ST2)					24.50	624.75
O0931	2009	65383	Construction Limits for Stationary Tank Range (ST2)					3.95	100.73
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**43.05**	**1,100.14**
O0925	2011	65383	Beaten Area for Stationary Tank Range (ST2)					1.35	25.65
			2011 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**1.35**	**25.65**
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**44.40**	**1,125.80**

POST-PROJECT	**2009**		**2011**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**68.56**	**3,003.15**	**68.56**	**3,003.15**
Potentially Suitable Habitat	**8.58**	**400.89**	**8.58**	**400.89**
Future Potential Habitat	**73.12**	**1,806.82**	**71.77**	**1,781.17**
TOTAL	**150.26**	**5,210.86**	**148.91**	**5,185.21**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21S = Longleaf Pine Scrub Oak
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
57 **= Scrub Oak (managed for hardwoods)
NM = not managed

Appendix Table H-230. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O09-02, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0914	25.02	51	31	64.78	18.13	28.46	19.38	12.79	16.25	18.50	6.38	2.80	7.50	35.63	61.25	2	30	18	3	1	3.89	PS					25.02	891.46
O0915	2.41	36	57**	51.04	12.00	6.21	4.00	0.37	0.50	24.49	1.83	0.00	1.00	4.50	17.50	1	20	22	3	1	2.56	PS					0.00	0.00
O0918	39.16	65	21	27.41	7.65	14.93	10.59	12.05	18.24	16.03	3.96	4.89	9.41	28.82	45.88	6	25	25	3	1	3.66	PS					39.16	1,128.59
O0919	43.54	96	21	28.41	8.50	23.88	16.50	20.05	32.00	0.00	5.59	0.60	5.50	48.50	62.50	2	35	12	3	1	4.66	PS			43.54	2,111.69		
O0922	42.46	0	NM	25.88	7.37	25.32	17.37	23.72	34.74	6.56	3.91	0.70	3.68	52.11	63.16	1	28	9	3	1	4.08	NH					0.00	0.00
O0925	28.52	95	21S	17.27	4.50	6.18	5.00	11.05	14.00	11.48	2.26	0.00	1.50	19.00	25.00	6	30	12	3	1	3.67	PS					28.52	541.88
O0929	16.42	63	21	16.06	4.50	10.84	8.00	11.70	17.50	4.32	1.65	0.00	1.00	25.50	31.00	2	29	7	3	1	4.05	PS					16.42	418.71
O0931	32.07	98	26	37.01	11.50	25.65	17.50	6.14	8.00	18.33	5.62	2.00	6.50	25.50	43.50	2	47	19	3	1	3.63	PS					32.07	817.79
O0953	2.36	51	31	27.40	9.00	31.78	22.00	7.29	9.50	20.51	5.30	0.25	4.50	31.50	45.00	7	24	12	3	1	3.10	PS					2.36	74.34
O0954	6.22	51	31	63.61	17.00	40.07	29.00	18.65	23.50	9.49	0.56	0.65	1.50	52.50	71.00	6	30	2	3	1	4.28	PS					6.22	326.55
	238.18																						**0.00**	**0.00**	**43.54**	**2,111.69**	**149.77**	**4,199.32**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0918	2009	65383	Stationary Tank Range (ST2)					4.17	120.18
O0918	2009	65383	Construction Limits for Stationary Tank Range (ST2)					4.02	115.86
O0925	2009	65383	Stationary Tank Range (ST2)					0.85	16.15
O0925	2009	65383	Construction Limits for Stationary Tank Range (ST2)					2.97	56.43
O0929	2009	65383	Stationary Tank Range (ST2)					0.88	22.44
O0929	2009	65383	Construction Limits for Stationary Tank Range (ST2)					1.71	43.61
O0931	2009	65383	Stationary Tank Range (ST2)					24.50	624.75
O0931	2009	65383	Construction Limits for Stationary Tank Range (ST2)					3.95	100.73
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**43.05**	**1,100.15**
O0925	2011	65383	Beaten Area for Stationary Tank Range (ST2)					1.35	25.65
			2011 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**1.35**	**25.65**
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**44.40**	**1,125.80**

POST-PROJECT	**2009**		**2011**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**43.54**	**2,111.69**	**43.54**	**2,111.69**
Future Potential Habitat	**106.72**	**3,099.17**	**105.37**	**3,073.52**
TOTAL	**150.26**	**5,210.86**	**148.91**	**5,185.21**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21S = Longleaf Pine Scrub Oak
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
57 **= Scrub Oak (managed for hardwoods)
NM = not managed

Appendix Table H-231. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O10-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0935	0.02	73	21	55.34	15.50	18.58	14.00	11.57	15.00	10.60	5.16	2.81	8.00	29.00	52.50	1	25	21	3	1	0					0.00	0.00
O0935	0.64	73	21	55.34	15.50	18.58	14.00	11.57	15.00	10.60	5.16	2.81	8.00	29.00	52.50	1	25	21	3	1	0					0.64	18.56
O0942	16.85	90	11	22.89	7.50	10.68	7.50	6.63	10.00	16.34	4.77	4.78	11.00	17.50	36.00	7	15	36	3	1	0					16.85	294.88
O0946	14.95	43	31P	91.89	26.50	49.19	35.00	10.31	13.50	12.71	3.10	2.73	6.50	48.50	81.50	4	8	9	3	1	0			14.95	725.08		
O1010	19.46	54	31	33.66	9.50	10.46	7.50	15.61	25.50	20.67	5.06	2.34	7.00	33.00	49.50	6	27	22	3	1	0			19.46	642.18		
O1010	0.07	54	31	33.66	9.50	10.46	7.50	15.61	25.50	20.67	5.06	2.34	7.00	33.00	49.50	6	27	22	3	1	0			0.07	2.31		
O1012	9.35	23	31P	356.97	94.00	26.74	16.00	0.00	0.00	4.34	0.00	0.00	0.00	16.00	110.00	1	14	0	3	1	0					9.35	149.60
O1012	0.07	23	31P	356.97	94.00	26.74	16.00	0.00	0.00	4.34	0.00	0.00	0.00	16.00	110.00	1	14	0	3	1	0					0.07	1.12
O1018	8.34	23	31P	198.50	45.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.00	2	23	0	3	1	0					8.34	0.00
O1019	17.53	62	31	27.01	7.37	15.17	11.05	16.20	25.79	55.15	3.24	3.68	7.89	36.84	52.11	8	12	18	3	1	0			17.53	645.81		
O1020	43.28	87	31	49.52	12.50	15.10	10.50	15.49	22.00	2.78	4.42	2.26	5.50	32.50	50.50	1	30	18	3	1	1	43.28	1,406.60				
O1023	16.65	75	31	164.35	41.50	24.15	15.00	1.54	2.00	17.97	2.81	0.00	2.00	17.00	60.50	2	21	10	3	1	0					16.65	283.05
O1024	13.00	23	21	34.95	11.58	25.30	16.84	7.41	10.53	2.77	2.33	0.41	2.11	27.37	41.05	1	27	8	3	1	0					13.00	355.81
O1027	0.55	77	31	92.30	22.94	29.80	20.00	9.88	13.53	1.69	10.06	2.99	11.18	33.53	67.65	6	26	25	3	1	0			0.55	18.44		
O1301	16.62	77	31	36.42	9.50	8.87	6.50	17.75	27.00	19.29	14.31	3.38	14.50	33.50	57.50	7	21	40	3	1	0			16.62	556.77		
O1305	5.37	82	21	14.31	5.00	10.82	7.00	14.44	19.00	21.90	4.98	1.63	5.50	26.00	36.50	1	22	21	3	1	0					5.37	139.62
pp426*	13.54	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					13.54	0.00
pp427*	6.67	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					6.67	0.00
pp692*	25.42	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					25.42	0.00
pp693*	1.43	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.43	0.00
	229.81																					**43.28**	**1,406.60**	**69.18**	**2,590.59**	**117.33**	**1,242.64**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0935	2009	65554	Construct Training Area Roads, Paved					0.47	13.63
O0942	2009	65554	Construct Training Area Roads, Paved					1.15	20.13
O0946	2009	65554	Construct Training Area Roads, Paved			4.17	202.25		
O1010	2009	65554	Construct Training Area Roads, Paved			0.58	19.14		
O1012	2009	65554	Construct Training Area Roads, Paved					1.63	26.08
O1018	2009	65554	Construct Training Area Roads, Paved					2.57	0.00
O1024	2009	65554	Construct Training Area Roads, Paved					1.21	33.12
pp426*	2009	65554	Construct Training Area Roads, Paved					1.58	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**4.75**	**221.39**	**8.61**	**92.96**
O1019	2010	65557	Repair Existing Training Area Roads, Phase 1			3.83	141.10		
O1301	2010	65557	Repair Existing Training Area Roads, Phase 1			3.62	121.27		
O1305	2010	65557	Repair Existing Training Area Roads, Phase 1					1.00	26.00
pp693*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.25	0.00
			2010 SUB-TOTAL	**0.00**	**0.00**	**7.45**	**262.37**	**1.25**	**26.00**
			TOTAL REMOVALS	**0.00**	**0.00**	**12.20**	**483.76**	**9.86**	**118.96**

POST-PROJECT

	2009 SUB-TOTAL		non-contiguous habitat		2009 TOTAL		2010 TOTAL	
	Acres	BA	Acres	BA	Acres	BA	Acres	BA
Suitable Habitat	43.28	1,406.60	0.00	0.00	43.28	1,406.60	43.28	1,406.60
Potentially Suitable Habitat	64.43	2,369.20	0.00	0.00	64.43	2,369.20	56.98	2,106.83
Future Potential Habitat	108.72	1,149.68	0.17	4.93	108.55	1,144.75	107.30	1,118.75
TOTAL	216.43	4,925.48	0.17	4.93	216.26	4,920.55	207.56	4,632.18

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
11 = Longleaf Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
31P = Loblolly Pine Plantation

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Stand O0935 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition.

Appendix Table H-232. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O10-01, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0935	0.02	73	21	55.34	15.50	18.58	14.00	11.57	15.00	10.60	5.16	2.81	8.00	29.00	52.50	1	25	21	3	1	3.90	PS					0.00	0.00
O0935	0.64	73	21	55.34	15.50	18.58	14.00	11.57	15.00	10.60	5.16	2.81	8.00	29.00	52.50	1	25	21	3	1	3.90	PS					0.64	18.56
O0942	16.85	90	11	22.89	7.50	10.68	7.50	6.63	10.00	16.34	4.77	4.78	11.00	17.50	36.00	7	15	36	3	1	3.00	PS					16.85	294.88
O0946	14.95	43	31P	91.89	26.50	49.19	35.00	10.31	13.50	12.71	3.10	2.73	6.50	48.50	81.50	4	8	9	3	1	3.34	PS					14.95	725.08
O1010	19.46	54	31	33.66	9.50	10.46	7.50	15.61	25.50	20.67	5.06	2.34	7.00	33.00	49.50	6	27	22	3	1	3.91	PS					19.46	642.18
O1010	0.07	54	31	33.66	9.50	10.46	7.50	15.61	25.50	20.67	5.06	2.34	7.00	33.00	49.50	6	27	22	3	1	3.91	PS					0.07	2.31
O1012	9.35	23	31P	356.97	94.00	26.74	16.00	0.00	0.00	4.34	0.00	0.00	0.00	16.00	110.00	1	14	0	3	1	2.47	NH					9.35	149.60
O1012	0.07	23	31P	356.97	94.00	26.74	16.00	0.00	0.00	4.34	0.00	0.00	0.00	16.00	110.00	1	14	0	3	1	2.47	NH					0.07	1.12
O1018	8.34	23	31P	198.50	45.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.00	2	23	0	3	1	2.57	NH					8.34	0.00
O1019	17.53	62	31	27.01	7.37	15.17	11.05	16.20	25.79	55.15	3.24	3.68	7.89	36.84	52.11	8	12	18	3	1	3.85	PS					17.53	645.81
O1020	43.28	87	31	49.52	12.50	15.10	10.50	15.49	22.00	2.78	4.42	2.26	5.50	32.50	50.50	1	30	18	3	1	4.29	PS					43.28	1,406.60
O1023	16.65	75	31	164.35	41.50	24.15	15.00	1.54	2.00	17.97	2.81	0.00	2.00	17.00	60.50	2	21	10	3	1	3.13	PS					16.65	283.05
O1024	13.00	23	21	34.95	11.58	25.30	16.84	7.41	10.53	2.77	2.33	0.41	2.11	27.37	41.05	1	27	8	3	1	3.19	NH					13.00	355.81
O1027	0.55	77	31	92.30	22.94	29.80	20.00	9.88	13.53	1.69	10.06	2.99	11.18	33.53	67.65	6	26	25	3	1	3.44	PS					0.55	18.44
O1301	16.62	77	31	36.42	9.50	8.87	6.50	17.75	27.00	19.29	14.31	3.38	14.50	33.50	57.50	7	21	40	3	1	3.81	PS					16.62	556.77
O1305	5.37	82	21	14.31	5.00	10.82	7.00	14.44	19.00	21.90	4.98	1.63	5.50	26.00	36.50	1	22	21	3	1	4.08	PS					5.37	139.62
pp426*	13.54	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					13.54	0.00
pp427*	6.67	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					6.67	0.00
pp692*	25.42	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					25.42	0.00
pp693*	1.43	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.43	0.00
	229.81																						**0.00**	**0.00**	**0.00**	**0.00**	**229.79**	**5,239.83**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0935	2009	65554	Construct Training Area Roads, Paved					0.47	13.63
O0942	2009	65554	Construct Training Area Roads, Paved					1.15	20.13
O0946	2009	65554	Construct Training Area Roads, Paved					4.17	202.25
O1010	2009	65554	Construct Training Area Roads, Paved					0.58	19.14
O1012	2009	65554	Construct Training Area Roads, Paved					1.63	26.08
O1018	2009	65554	Construct Training Area Roads, Paved					2.57	0.00
O1024	2009	65554	Construct Training Area Roads, Paved					1.21	33.12
pp426*	2009	65554	Construct Training Area Roads, Paved					1.58	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**13.36**	**314.35**
O1019	2010	65557	Repair Existing Training Area Roads, Phase 1					3.83	141.10
O1301	2010	65557	Repair Existing Training Area Roads, Phase 1					3.62	121.27
O1305	2010	65557	Repair Existing Training Area Roads, Phase 1					1.00	26.00
pp693*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.25	0.00
			2010 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**8.70**	**288.37**
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**22.06**	**602.72**

POST-PROJECT

	2009 SUB-TOTAL		non-contiguous habitat		2009 TOTAL		2010 TOTAL	
	Acres	BA	Acres	BA	Acres	BA	Acres	BA
Suitable Habitat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Potentially Suitable Habitat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Future Potential Habitat	216.43	4,925.48	0.17	4.93	216.26	4,920.55	207.56	4,632.18
TOTAL	216.43	4,925.48	0.17	4.93	216.26	4,920.55	207.56	4,632.18

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
11 = Longleaf Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
31P = Loblolly Pine Plantation

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Stand O0935 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition.

Appendix Table H-233. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O10-02**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgi

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0817	3.07	23	31	103.23	31.00	17.82	11.00	1.66	2.00	2.86	0.00	0.00	0.00	13.00	44.00	2	31	0	3	1	0					3.07	39.91
O0818	2.04	23	31P	92.28	30.00	9.35	6.00	0.00	0.00	7.33	4.38	1.14	5.00	6.00	41.00	1	29	37	3	1	0					2.04	12.24
O0819	3.61	90	31	61.73	18.00	12.76	10.00	6.25	9.50	67.54	9.89	2.50	10.00	19.50	47.50	1	4	39	3	1	0					3.61	70.40
O0928	2.52	63	31	81.35	24.74	31.37	21.58	6.96	10.00	22.27	5.83	3.93	10.53	31.58	66.84	9	7	20	3	1	0			2.52	79.58		
O0935	9.88	73	21	55.34	15.50	18.58	14.00	11.57	15.00	10.60	5.16	2.81	8.00	29.00	52.50	1	25	21	3	1	0					9.88	286.52
O1003	11.96	90	31	114.52	30.00	5.37	3.16	7.23	10.53	9.86	0.55	0.00	0.53	13.68	44.21	6	20	4	3	1	0					11.96	163.61
O1006	2.03	23	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					2.03	0.00
O1007	54.86	76	31	16.54	5.00	8.06	5.00	14.39	25.50	1.08	1.52	0.11	1.50	30.50	37.00	1	40	7	3	1	1	54.86	1,673.23				
O1009	17.40	61	31	36.86	10.50	44.99	31.00	7.18	9.00	39.33	11.32	1.44	9.50	40.00	60.00	1	20	20	3	1	1	17.40	696.00				
O1010	16.11	54	31	33.66	9.50	10.46	7.50	15.61	25.50	20.67	5.06	2.34	7.00	33.00	49.50	6	27	22	3	1	0			0.00	0.00		
O1012	26.35	23	31P	356.97	94.00	26.74	16.00	0.00	0.00	4.34	0.00	0.00	0.00	16.00	110.00	1	14	0	3	1	0					26.35	421.60
pp689*	23.03	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					23.03	0.00
pp690*	17.95	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					17.95	0.00
pp748*	0.12	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.12	0.00
pp818*	4.75	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					4.75	0.00
pp965*	37.87	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					37.87	0.00
	233.55																					**72.26**	**2,369.23**	**2.52**	**79.58**	**142.66**	**994.28**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0928	2009	65554	Construct Training Area Roads Paved			0.60	18.95		
O0928	2009	65383	Stationary Tank Range (ST2)			0.61	19.26		
O0928	2009	65383	Construction Limits for Stationary Tank Range (ST2)			0.89	28.11		
O0935	2009	65554	Construct Training Area Roads Paved					3.22	93.38
O0935	2009	65383	Stationary Tank Range (ST2)					0.71	20.59
O0935	2009	65383	Construction Limits for Stationary Tank Range (ST2)					0.93	26.97
O1009	2009	65554	Construct Training Area Roads Paved	2.98	119.20				
pp689*	2009	65554	Construct Training Area Roads Paved					0.07	0.00
pp818*	2009	65554	Construct Training Area Roads Paved					1.24	0.00
			TOTAL REMOVALS	**2.98**	**119.20**	**2.10**	**66.32**	**6.17**	**140.94**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**69.28**	**2,250.03**
Potentially Suitable Habitat	**0.42**	**13.26**
Future Potential Habitat	**136.49**	**853.34**
TOTAL	**206.19**	**3,116.63**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
31P = Loblolly Pine Plantation
ND = no data provided

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-234. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O10-02, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0817	3.07	23	31	103.23	31.00	17.82	11.00	1.66	2.00	2.86	0.00	0.00	0.00	13.00	44.00	2	31	0	3	1	2.67	NH					3.07	39.91
O0818	2.04	23	31P	92.28	30.00	9.35	6.00	0.00	0.00	7.33	4.38	1.14	5.00	6.00	41.00	1	29	37	3	1	2.32	NH					2.04	12.24
O0819	3.61	90	31	61.73	18.00	12.76	10.00	6.25	9.50	67.54	9.89	2.50	10.00	19.50	47.50	1	4	39	3	1	3.01	PS					3.61	70.40
O0928	2.52	63	31	81.35	24.74	31.37	21.58	6.96	10.00	22.27	5.83	3.93	10.53	31.58	66.84	9	7	20	3	1	2.62	PS					2.52	79.58
O0935	9.88	73	21	55.34	15.50	18.58	14.00	11.57	15.00	10.60	5.16	2.81	8.00	29.00	52.50	1	25	21	3	1	3.90	PS					9.88	286.52
O1003	11.96	90	31	114.52	30.00	5.37	3.16	7.23	10.53	9.86	0.55	0.00	0.53	13.68	44.21	6	20	4	3	1	3.33	PS					11.96	163.61
O1006	2.03	23	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					2.03	0.00
O1007	54.86	76	31	16.54	5.00	8.06	5.00	14.39	25.50	1.08	1.52	0.11	1.50	30.50	37.00	1	40	7	3	1	4.49	PS					54.86	1,673.23
O1009	17.40	61	31	36.86	10.50	44.99	31.00	7.18	9.00	39.33	11.32	1.44	9.50	40.00	60.00	1	20	20	3	1	3.48	PS					17.40	696.00
O1010	16.11	54	31	33.66	9.50	10.46	7.50	15.61	25.50	20.67	5.06	2.34	7.00	33.00	49.50	6	27	22	3	1	3.91	PS					16.11	531.63
O1012	26.35	23	31P	356.97	94.00	26.74	16.00	0.00	0.00	4.34	0.00	0.00	0.00	16.00	110.00	1	14	0	3	1	2.47	NH					26.35	421.60
pp689*	23.03	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					23.03	0.00
pp690*	17.95	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					17.95	0.00
pp748*	0.12	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.12	0.00
pp818*	4.75	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					4.75	0.00
pp965*	37.87	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					37.87	0.00
	233.55																						**0.00**	**0.00**	**0.00**	**0.00**	**233.54**	**3,974.72**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0928	2009	65554	Construct Training Area Roads Paved					0.60	18.95
O0928	2009	65383	Stationary Tank Range (ST2)					0.61	19.26
O0928	2009	65383	Construction Limits for Stationary Tank Range (ST2)					0.89	28.11
O0935	2009	65554	Construct Training Area Roads Paved					3.22	93.38
O0935	2009	65383	Stationary Tank Range (ST2)					0.71	20.59
O0935	2009	65383	Construction Limits for Stationary Tank Range (ST2)					0.93	26.97
O1009	2009	65554	Construct Training Area Roads Paved					2.98	119.20
pp689*	2009	65554	Construct Training Area Roads Paved					0.07	0.00
pp818*	2009	65554	Construct Training Area Roads Paved					1.24	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**11.25**	**326.46**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**222.29**	**3,648.26**
TOTAL	**222.29**	**3,648.26**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Type Burn
0=no data available
1=non-growing season
2=growing season

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
31P = Loblolly Pine Plantation
ND = no data provided

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-235. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O10-03, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K0201	25.31	65	31	38.78	11.58	20.14	14.74	14.36	20.53	9.13	1.82	1.27	3.16	35.26	50.00	7	17	8	0	0	0			25.31	892.43		
O1023	0.91	75	31	164.35	41.50	24.15	15.00	1.54	2.00	17.97	2.81	0.00	2.00	17.00	60.50	2	21	10	3	1	0					0.91	15.47
O1024	1.99	23	21	34.95	11.58	25.30	16.84	7.41	10.53	2.77	2.33	0.41	2.11	27.37	41.05	1	27	8	3	1	0					1.99	54.47
O1026	2.28	23	31	201.07	57.50	46.06	30.00	3.41	5.00	37.81	0.00	1.73	2.50	35.00	95.00	6	13	3	3	1	0					2.28	79.80
O1027	74.09	77	31	92.30	22.94	29.80	20.00	9.88	13.53	1.69	10.06	2.99	11.18	33.53	67.65	6	26	25	3	1	0			74.09	2,484.24		
O1202	13.09	65	31	7.21	2.00	16.69	12.00	10.54	14.00	7.37	1.68	0.47	2.00	26.00	30.00	5	28	7	3	1	0					13.09	340.34
O1203	2.67	95	31	17.22	5.00	16.86	15.00	21.10	30.00	20.46	0.00	1.60	2.50	45.00	52.50	6	23	4	3	1	0			2.67	120.15		
O1204	4.86	70	21	11.49	4.50	15.03	11.00	16.44	24.00	10.32	5.88	1.41	6.50	35.00	46.00	5	28	19	3	1	0			4.86	170.10		
O1211	0.45	85	21	3.72	1.00	5.01	4.00	4.57	6.00	8.88	1.14	1.12	2.50	10.00	13.50	1	29	19	3	1	0					0.45	4.50
O1212	2.05	51	22P	92.00	25.50	27.80	19.50	1.98	2.50	4.92	0.62	0.50	1.00	22.00	48.50	7	35	4	3	1	0					2.05	45.10
O1312	5.00	71	31	46.65	13.00	23.94	17.50	14.40	21.00	10.46	10.12	3.33	12.00	38.50	63.50	1	15	26	3	1	1	5.00	192.50				
pp425*	7.08	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					7.08	0.00
pp693*	0.81	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.81	0.00
	140.59																					**5.00**	**192.50**	**106.93**	**3,666.92**	**28.66**	**539.68**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K0201	2009	65554	Construct Training Area Roads, Paved			1.66	58.53		
O1027	2009	65554	Construct Training Area Roads, Paved			5.34	179.05		
O1202	2009	65554	Construct Training Area Roads, Paved					2.83	73.58
O1211	2009	65554	Construct Training Area Roads, Paved					0.18	1.80
O1312	2009	65554	Construct Training Area Roads, Paved	0.41	15.79				
pp425*	2009	65554	Construct Training Area Roads, Paved					1.23	0.00
			2009 SUB-TOTAL	**0.41**	**15.79**	**7.00**	**237.58**	**4.24**	**75.38**
O1027	2010	65557	Repair Existing Training Area Roads, Phase 1			1.60	53.65		
O1312	2010	65557	Repair Existing Training Area Roads, Phase 1	1.50	57.75				
			2009 SUB-TOTAL	**1.50**	**57.75**	**1.60**	**53.65**	**0.00**	**0.00**
			TOTAL REMOVALS	**1.91**	**73.54**	**8.60**	**291.23**	**4.24**	**75.38**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**4.59**	**176.71**	**3.09**	**118.96**
Potentially Suitable Habitat	**99.93**	**3,429.34**	**98.33**	**3,375.69**
Future Potential Habitat	**24.42**	**464.30**	**24.42**	**464.30**
TOTAL	**128.94**	**4,070.35**	**125.84**	**3,958.95**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-236. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O10-03, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
K0201	25.31	65	31	38.78	11.58	20.14	14.74	14.36	20.53	9.13	1.82	1.27	3.16	35.26	50.00	7	17	8	0	0	3.78	PS					25.31	892.43
O1023	0.91	75	31	164.35	41.50	24.15	15.00	1.54	2.00	17.97	2.81	0.00	2.00	17.00	60.50	2	21	10	3	1	3.13	PS					0.91	15.47
O1024	1.99	23	21	34.95	11.58	25.30	16.84	7.41	10.53	2.77	2.33	0.41	2.11	27.37	41.05	1	27	8	3	1	3.19	NH					1.99	54.47
O1026	2.28	23	31	201.07	57.50	46.06	30.00	3.41	5.00	37.81	0.00	1.73	2.50	35.00	95.00	6	13	3	3	1	2.53	NH					2.28	79.80
O1027	74.09	77	31	92.30	22.94	29.80	20.00	9.88	13.53	1.69	10.06	2.99	11.18	33.53	67.65	6	26	25	3	1	3.44	PS					74.09	2,484.24
O1202	13.09	65	31	7.21	2.00	16.69	12.00	10.54	14.00	7.37	1.68	0.47	2.00	26.00	30.00	5	28	7	3	1	3.68	PS					13.09	340.34
O1203	2.67	95	31	17.22	5.00	16.86	15.00	21.10	30.00	20.46	0.00	1.60	2.50	45.00	52.50	6	23	4	3	1	4.42	PS			2.67	120.15		
O1204	4.86	70	21	11.49	4.50	15.03	11.00	16.44	24.00	10.32	5.88	1.41	6.50	35.00	46.00	5	28	19	3	1	4.09	PS					4.86	170.10
O1211	0.45	85	21	3.72	1.00	5.01	4.00	4.57	6.00	8.88	1.14	1.12	2.50	10.00	13.50	1	29	19	3	1	3.29	PS					0.45	4.50
O1212	2.05	51	22P	92.00	25.50	27.80	19.50	1.98	2.50	4.92	0.62	0.50	1.00	22.00	48.50	7	35	4	3	1	2.82	PS					2.05	45.10
O1312	5.00	71	31	46.65	13.00	23.94	17.50	14.40	21.00	10.46	10.12	3.33	12.00	38.50	63.50	1	15	26	3	1	4.08	PS					5.00	192.50
pp425*	7.08	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					7.08	0.00
pp693*	0.81	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.81	0.00
	140.59																						**0.00**	**0.00**	**2.67**	**120.15**	**137.92**	**4,278.95**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
K0201	2009	65554	Construct Training Area Roads, Paved					1.66	58.53
O1027	2009	65554	Construct Training Area Roads, Paved					5.34	179.05
O1202	2009	65554	Construct Training Area Roads, Paved					2.83	73.58
O1211	2009	65554	Construct Training Area Roads, Paved					0.18	1.80
O1312	2009	65554	Construct Training Area Roads, Paved					0.41	15.79
pp425*	2009	65554	Construct Training Area Roads, Paved					1.23	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**11.65**	**328.75**
O1027	2010	65557	Repair Existing Training Area Roads, Phase 1					1.60	53.65
O1312	2010	65557	Repair Existing Training Area Roads, Phase 1					1.50	57.75
			2010 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**3.10**	**111.40**
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**14.75**	**440.15**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**2.67**	**120.15**	**2.67**	**120.15**
Future Potential Habitat	**126.27**	**3,950.20**	**123.17**	**3,838.80**
TOTAL	**128.94**	**4,070.35**	**125.84**	**3,958.95**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-237. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O10-04**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1007	0.36	76	31	16.54	5.00	8.06	5.00	14.39	25.50	1.08	1.52	0.11	1.50	30.50	37.00	1	40	7	3	1	1	0.00	0.00				
O1010	105.45	54	31	33.66	9.50	10.46	7.50	15.61	25.50	20.67	5.06	2.34	7.00	33.00	49.50	6	27	22	3	1	0			105.45	3,479.85		
O1012	0.32	23	31P	356.97	94.00	26.74	16.00	0.00	0.00	4.34	0.00	0.00	0.00	16.00	110.00	1	14	0	3	1	0					0.32	5.12
O1015	4.26	54	31P	339.40	92.50	30.33	17.50	0.00	0.00	0.00	0.00	0.00	0.00	17.50	110.00	6	8	0	3	1	0					4.26	74.55
O1019	13.49	62	31	27.01	7.37	15.17	11.05	16.20	25.79	55.15	3.24	3.68	7.89	36.84	52.11	8	12	18	3	1	0			13.49	496.97		
O1301	20.32	77	31	36.42	9.50	8.87	6.50	17.75	27.00	19.29	14.31	3.38	14.50	33.50	57.50	7	21	40	3	1	0			20.32	680.72		
pp691*	12.81	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					12.81	0.00
pp692*	0.15	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp819*	0.71	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.71	0.00
pp820*	6.95	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					6.95	0.00
	164.82																					**0.00**	**0.00**	**139.26**	**4,657.54**	**25.05**	**79.67**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1010	2009	69741	Training Area Infrastructure-19D/K OSUT			0.26	8.58		
O1019	2009	69741	Training Area Infrastructure-19D/K OSUT			0.35	12.89		
O1301	2009	69741	Training Area Infrastructure-19D/K OSUT			2.77	92.80		
pp819*	2009	69741	Training Area Infrastructure-19D/K OSUT					0.05	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**3.38**	**114.27**	**0.05**	**0.00**
O1010	2010	65557	Repair Existing Training Area Roads, Phase 1			1.43	47.19		
O1019	2010	65557	Repair Existing Training Area Roads, Phase 1			3.22	118.62		
O1301	2010	65557	Repair Existing Training Area Roads, Phase 1			6.47	216.75		
pp819*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.21	0.00
pp820*	2010	65557	Repair Existing Training Area Roads, Phase 2					2.80	0.00
			2010 SUB-TOTAL	**0.00**	**0.00**	**11.12**	**382.56**	**3.01**	**0.00**
			TOTAL REMOVALS	**0.00**	**0.00**	**14.50**	**496.83**	**3.06**	**0.00**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**135.88**	**4,543.27**	**124.76**	**4,160.71**
Future Potential Habitat	**25.00**	**79.67**	**21.99**	**79.67**
TOTAL	**160.88**	**4,622.94**	**146.75**	**4,240.38**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21P = Longleaf Pine Plantation
31 = Loblolly Pine
31P = Loblolly Pine Plantation

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-238. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O10-04, Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1007	0.36	76	31	16.54	5.00	8.06	5.00	14.39	25.50	1.08	1.52	0.11	1.50	30.50	37.00	1	40	7	3	1	4.49	PS					0.00	0.00
O1010	105.45	54	31	33.66	9.50	10.46	7.50	15.61	25.50	20.67	5.06	2.34	7.00	33.00	49.50	6	27	22	3	1	3.91	PS					105.45	3,479.85
O1012	0.32	23	31P	356.97	94.00	26.74	16.00	0.00	0.00	4.34	0.00	0.00	0.00	16.00	110.00	1	14	0	3	1	2.47	NH					0.32	5.12
O1015	4.26	54	31P	339.40	92.50	30.33	17.50	0.00	0.00	0.00	0.00	0.00	0.00	17.50	110.00	6	8	0	3	1	2.56	PS					4.26	74.55
O1019	13.49	62	31	27.01	7.37	15.17	11.05	16.20	25.79	55.15	3.24	3.68	7.89	36.84	52.11	8	12	18	3	1	3.85	PS					13.49	496.97
O1301	20.32	77	31	36.42	9.50	8.87	6.50	17.75	27.00	19.29	14.31	3.38	14.50	33.50	57.50	7	21	40	3	1	3.81	PS					20.32	680.72
pp691*	12.81	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					12.81	0.00
pp692*	0.15	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp819*	0.71	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.71	0.00
pp820*	6.95	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					6.95	0.00
	164.82																						**0.00**	**0.00**	**0.00**	**0.00**	**164.31**	**4,737.21**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1010	2009	69741	Training Area Infrastructure-19D/K OSUT					0.26	8.58
O1019	2009	69741	Training Area Infrastructure-19D/K OSUT					0.35	12.89
O1301	2009	69741	Training Area Infrastructure-19D/K OSUT					2.77	92.80
pp819*	2009	69741	Training Area Infrastructure-19D/K OSUT					0.05	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**3.43**	**114.27**
O1010	2010	65557	Repair Existing Training Area Roads, Phase 1					1.43	47.19
O1019	2010	65557	Repair Existing Training Area Roads, Phase 1					3.22	118.62
O1301	2010	65557	Repair Existing Training Area Roads, Phase 1					6.47	216.75
pp819*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.21	0.00
pp820*	2010	65557	Repair Existing Training Area Roads, Phase 2					2.80	0.00
			2010 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**14.13**	**382.56**
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**17.56**	**496.83**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**160.88**	**4,622.94**	**146.75**	**4,240.38**
TOTAL	**160.88**	**4,622.94**	**146.75**	**4,240.38**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21P = Longleaf Pine Plantation
31 = Loblolly Pine
31P = Loblolly Pine Plantation

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-239. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O10-04**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1007	0.36	76	31	16.54	5.00	8.06	5.00	14.39	25.50	1.08	1.52	0.11	1.50	30.50	37.00	1	40	7	3	1	1	0.00	0.00				
O1010	105.45	54	31	33.66	9.50	10.46	7.50	15.61	25.50	20.67	5.06	2.34	7.00	33.00	49.50	6	27	22	3	1	0			105.45	3,479.85		
O1012	0.32	23	31P	356.97	94.00	26.74	16.00	0.00	0.00	4.34	0.00	0.00	0.00	16.00	110.00	1	14	0	3	1	0					0.32	5.12
O1015	4.26	54	31P	339.40	92.50	30.33	17.50	0.00	0.00	0.00	0.00	0.00	0.00	17.50	110.00	6	8	0	3	1	0					4.26	74.55
O1019	13.49	62	31	27.01	7.37	15.17	11.05	16.20	25.79	55.15	3.24	3.68	7.89	36.84	52.11	8	12	18	3	1	0			13.49	496.97		
O1301	20.32	77	31	36.42	9.50	8.87	6.50	17.75	27.00	19.29	14.31	3.38	14.50	33.50	57.50	7	21	40	3	1	0			20.32	680.72		
pp691*	12.81	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					12.81	0.00
pp692*	0.15	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp819*	0.71	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.71	0.00
pp820*	6.95	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					6.95	0.00
	164.82																					**0.00**	**0.00**	**139.26**	**4,657.54**	**25.05**	**79.67**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1010	2010	65557	Repair Existing Training Area Roads, Phase 1			1.69	55.77		
O1019	2010	65557	Repair Existing Training Area Roads, Phase 1			3.57	131.52		
O1301	2010	65557	Repair Existing Training Area Roads, Phase 1			7.22	241.87		
pp819*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.26	0.00
pp820*	2010	65557	Repair Existing Training Area Roads, Phase 1					2.80	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**12.48**	**429.16**	**3.06**	**0.00**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**126.78**	**4,228.38**
Future Potential Habitat	**21.99**	**79.67**
TOTAL	**148.77**	**4,308.05**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21P = Longleaf Pine Plantation
31 = Loblolly Pine
31P = Loblolly Pine Plantation

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-240. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O10-04, Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10 14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1007	0.36	76	31	16.54	5.00	8.06	5.00	14.39	25.50	1.08	1.52	0.11	1.50	30.50	37.00	1	40	7	3	1	4.49	PS					0.00	0.00
O1010	105.45	54	31	33.66	9.50	10.46	7.50	15.61	25.50	20.67	5.06	2.34	7.00	33.00	49.50	6	27	22	3	1	3.91	PS					105.45	3,479.85
O1012	0.32	23	31P	356.97	94.00	26.74	16.00	0.00	0.00	4.34	0.00	0.00	0.00	16.00	110.00	1	14	0	3	1	2.47	NH					0.32	5.12
O1015	4.26	54	31P	339.40	92.50	30.33	17.50	0.00	0.00	0.00	0.00	0.00	0.00	17.50	110.00	6	8	0	3	1	2.56	PS					4.26	74.55
O1019	13.49	62	31	27.01	7.37	15.17	11.05	16.20	25.79	55.15	3.24	3.68	7.89	36.84	52.11	8	12	18	3	1	3.85	PS					13.49	496.97
O1301	20.32	77	31	36.42	9.50	8.87	6.50	17.75	27.00	19.29	14.31	3.38	14.50	33.50	57.50	7	21	40	3	1	3.81	PS					20.32	680.72
pp691*	12.81	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					12.81	0.00
pp692*	0.15	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp819*	0.71	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.71	0.00
pp820*	6.95	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					6.95	0.00
	164.82																						**0.00**	**0.00**	**0.00**	**0.00**	**164.31**	**4,737.21**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1010	2010	65557	Repair Existing Training Area Roads, Phase 1					1.69	55.77
O1019	2010	65557	Repair Existing Training Area Roads, Phase 1					3.57	131.52
O1301	2010	65557	Repair Existing Training Area Roads, Phase 1					7.22	241.87
pp819*	2010	65557	Repair Existing Training Area Roads, Phase 1					0.26	0.00
pp820*	2010	65557	Repair Existing Training Area Roads, Phase 1					2.80	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**15.54**	**429.16**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**148.77**	**4,308.05**
TOTAL	**148.77**	**4,308.05**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21P = Longleaf Pine Plantation
31 = Loblolly Pine
31P = Loblolly Pine Plantation

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-241. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O11-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0429	17.06	62	26P	30.91	9.50	16.50	12.50	11.19	15.00	13.49	1.96	0.50	2.50	27.50	39.50	1	28	8	3	1	0					17.06	469.15
O0430	26.64	56	31	20.19	7.50	16.97	12.00	9.67	16.00	4.06	4.49	0.37	3.50	28.00	39.00	1	37	15	3	1	0					26.64	745.92
O1107	9.22	51	31	34.78	10.50	21.21	14.50	10.87	18.50	18.12	5.11	1.15	5.00	33.00	48.50	1	38	16	3	1	1	9.22	304.26				
O1108	9.11	60	31	37.56	12.22	30.82	23.33	30.64	43.33	0.00	1.62	0.00	1.11	66.67	80.00	1	51	3	3	1	1	9.11	607.36				
O1109	4.52	53	13	20.34	8.00	15.97	12.00	0.00	0.00	41.97	2.20	1.90	4.00	12.00	24.00	5	15	20	3	1	0					4.52	54.24
O1110	12.10	82	26	25.60	8.00	23.88	16.50	17.85	27.00	11.83	3.34	0.80	3.50	43.50	55.00	1	29	9	3	1	1	12.10	526.35				
O1111	10.48	43	13	37.92	12.00	24.60	17.50	12.35	17.00	50.31	3.81	0.75	3.50	34.50	50.00	7	11	11	3	1	0			10.48	361.56		
O1114	4.48	65	66**	13.86	3.50	1.14	1.00	5.33	8.00	28.53	17.15	4.29	16.50	9.00	29.00	6	23	77	3	1	0					0.00	0.00
O1115	6.41	74	31	71.97	20.53	28.95	20.00	10.59	14.21	20.28	8.07	1.42	7.37	34.21	62.11	1	21	19	3	1	0			6.41	219.29		
O1119	19.63	98	21	0.00	0.00	7.29	6.00	53.17	78.00	0.00	1.17	0.97	2.50	84.00	86.50	1	28	3	3	1	1	19.63	1,648.92				
O1122	10.77	54	31	11.27	3.50	16.55	12.50	19.50	32.00	13.07	8.61	3.28	11.00	44.50	59.00	1	23	25	3	1	1	0.00	0.00				
O1130	7.50	82	21	47.33	15.71	41.06	27.14	6.76	11.43	8.68	0.00	0.00	0.00	38.57	54.29	1	19	0	3	1	1	7.50	289.28				
O1131	7.06	22	10	24.35	7.14	0.00	0.00	11.32	18.57	20.35	10.72	0.92	8.57	18.57	34.29	2	20	51	3	1	0					0.00	0.00
O1132	5.39	80	31	109.12	32.00	56.21	42.00	9.19	12.00	4.53	0.00	0.00	0.00	54.00	86.00	2	22	0	3	1	0			5.39	291.06		
pp334*	1.99	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.99	0.00
pp383*	0.06	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.06	0.00
pp700*	2.44	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp701*	20.20	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					20.20	0.00
	175.06																					**57.56**	**3,376.17**	**22.28**	**871.91**	**70.47**	**1,269.31**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0430	2009	69742	Northern Training Area Infrastructure					0.25	7.00
O1107	2009	69742	Northern Training Area Infrastructure	2.40	79.20				
O1108	2009	69742	Northern Training Area Infrastructure	0.98	65.34				
O1115	2009	69742	Northern Training Area Infrastructure			0.40	13.68		
O1132	2009	69742	Northern Training Area Infrastructure			1.06	57.24		
pp383*	2009	69742	Northern Training Area Infrastructure					0.06	0.00
pp701*	2009	69742	Northern Training Area Infrastructure					8.48	0.00
			2009 SUB-TOTAL	**3.38**	**144.54**	**1.46**	**70.92**	**8.79**	**7.00**
O0430	2010	65557	Repair Existing Training Area Roads, Phase 1					0.11	3.08
			2010 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**0.11**	**3.08**
			TOTAL REMOVALS	**3.38**	**144.54**	**1.46**	**70.92**	**8.90**	**10.08**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**54.18**	**3,231.63**	**54.18**	**3,231.63**
Potentially Suitable Habitat	**20.82**	**800.99**	**20.82**	**800.99**
Future Potential Habitat	**61.68**	**1,262.31**	**61.57**	**1,259.23**
TOTAL	**136.68**	**5,294.93**	**136.57**	**5,291.85**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
26P = Mixed Pine-Longleaf Plantation
31 = Loblolly Pine
66** = Oak-Hickory (managed for hardwoods)

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-242. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O11-01, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia. Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0429	17.06	62	26P	30.91	9.50	16.50	12.50	11.19	15.00	13.49	1.96	0.50	2.50	27.50	39.50	1	28	8	3	1	3.76	PS					17.06	469.15
O0430	26.64	56	31	20.19	7.50	16.97	12.00	9.67	16.00	4.06	4.49	0.37	3.50	28.00	39.00	1	37	15	3	1	3.74	PS					26.64	745.92
O1107	9.22	51	31	34.78	10.50	21.21	14.50	10.87	18.50	18.12	5.11	1.15	5.00	33.00	48.50	1	38	16	3	1	3.74	PS					9.22	304.26
O1108	9.11	60	31	37.56	12.22	30.82	23.33	30.64	43.33	0.00	1.62	0.00	1.11	66.67	80.00	1	51	3	3	1	4.33	PS			9.11	607.36		
O1109	4.52	53	13	20.34	8.00	15.97	12.00	0.00	0.00	41.97	2.20	1.90	4.00	12.00	24.00	5	15	20	3	1	2.48	PS					4.52	54.24
O1110	12.10	82	26	25.60	8.00	23.88	16.50	17.85	27.00	11.83	3.34	0.80	3.50	43.50	55.00	1	29	9	3	1	4.17	PS					12.10	526.35
O1111	10.48	43	13	37.92	12.00	24.60	17.50	12.35	17.00	50.31	3.81	0.75	3.50	34.50	50.00	7	11	11	3	1	3.05	PS					10.48	361.56
O1114	4.48	65	66**	13.86	3.50	1.14	1.00	5.33	8.00	28.53	17.15	4.29	16.50	9.00	29.00	6	23	77	3	1	3.03	PS					0.00	0.00
O1115	6.41	74	31	71.97	20.53	28.95	20.00	10.59	14.21	20.28	8.07	1.42	7.37	34.21	62.11	1	21	19	3	1	3.60	PS					6.41	219.29
O1119	19.63	98	21	0.00	0.00	7.29	6.00	53.17	78.00	0.00	1.17	0.97	2.50	84.00	86.50	1	28	3	3	1	4.33	CS	19.63	1,648.92				
O1122	10.77	54	31	11.27	3.50	16.55	12.50	19.50	32.00	13.07	8.61	3.28	11.00	44.50	59.00	1	23	25	3	1	4.19	PS					10.77	479.27
O1130	7.50	82	21	47.33	15.71	41.06	27.14	6.76	11.43	8.68	0.00	0.00	0.00	38.57	54.29	1	19	0	3	1	3.37	PS					7.50	289.28
O1131	7.06	22	10	24.35	7.14	0.00	0.00	11.32	18.57	20.35	10.72	0.92	8.57	18.57	34.29	2	20	51	3	1	3.12	NH					0.00	0.00
O1132	5.39	80	31	109.12	32.00	56.21	42.00	9.19	12.00	4.53	0.00	0.00	0.00	54.00	86.00	2	22	0	3	1	3.56	PS					5.39	291.06
pp334*	1.99	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.60	NH					1.99	0.00
pp383*	0.06	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.60	NH					0.06	0.00
pp700*	2.44	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.60	NH					2.44	0.00
pp701*	20.20	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.60	NH					20.20	0.00
	175.06																						**19.63**	**1,648.92**	**9.11**	**607.36**	**134.78**	**3,740.38**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0430	2009	69742	Northern Training Area Infrastructure					0.25	7.00
O1107	2009	69742	Northern Training Area Infrastructure					2.40	79.20
O1108	2009	69742	Northern Training Area Infrastructure			0.98	65.34		
O1115	2009	69742	Northern Training Area Infrastructure					0.40	13.68
O1122	2009	69742	Northern Training Area Infrastructure					1.67	74.32
O1132	2009	69742	Northern Training Area Infrastructure					1.06	57.24
pp383*	2009	69742	Northern Training Area Infrastructure					0.06	0.00
pp701*	2009	69742	Northern Training Area Infrastructure					8.48	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.98**	**65.34**	**14.32**	**231.44**
O0430	2010	65557	Repair Existing Training Area Roads, Phase 1					0.11	3.08
			2010 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**0.11**	**3.08**
			TOTAL REMOVALS	**0.00**	**0.00**	**0.98**	**65.34**	**14.43**	**234.52**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**19.63**	**1,648.92**	**19.63**	**1,648.92**
Potentially Suitable Habitat	**8.13**	**542.02**	**8.13**	**542.02**
Future Potential Habitat	**120.46**	**3,508.94**	**120.35**	**3,505.86**
TOTAL	**148.22**	**5,699.88**	**148.11**	**5,696.80**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
26P = Mixed Pine-Longleaf Plantation
31 = Loblolly Pine
66** = Oak-Hickory (managed for hardwoods)

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-243. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O11-02F**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgi

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0102	9.77	79	21	9.49	3.50	14.09	10.50	12.03	17.00	20.54	4.12	1.60	5.50	27.50	36.50	1	21	18	3	1	0					0.00	0.00
O0107	34.46	59	21	13.09	4.00	30.59	23.00	13.52	17.50	4.77	3.36	1.81	5.50	40.50	50.00	1	25	10	3	1	1	34.46	1,395.63				
O0107	0.01	59	21	13.09	4.00	30.59	23.00	13.52	17.50	4.77	3.36	1.81	5.50	40.50	50.00	1	25	10	3	1	1	0.01	0.41				
O0109	4.20	59	31	17.62	5.50	18.71	13.00	15.97	22.00	6.10	5.31	2.75	8.00	35.00	48.50	3	21	19	3	1	1	4.20	147.00				
O0109	0.01	59	31	17.62	5.50	18.71	13.00	15.97	22.00	6.10	5.31	2.75	8.00	35.00	48.50	3	21	19	3	1	1	0.01	0.35				
O0110	0.88	23	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
O0116	7.17	61	31	6.68	2.00	9.18	7.00	15.59	24.50	4.22	0.00	0.28	1.00	31.50	34.50	1	37	1	3	1	1	7.17	225.86				
O0342	2.11	86	21	10.10	3.00	8.21	6.00	19.84	29.00	14.41	5.03	3.66	9.50	35.00	47.50	7	25	24	3	1	0			0.00	0.00		
O1103	0.42	52	31	97.61	30.00	39.25	28.33	10.05	11.67	12.62	4.35	2.68	6.67	40.00	76.67	1	18	12	3	1	0			0.00	0.00		
O1501	5.99	50	10	99.81	25.00	21.42	15.00	3.82	5.00	24.18	9.22	10.08	21.67	20.00	66.67	1	10	43	3	1	0					0.00	0.00
O1503	25.65	70	31	12.18	4.50	26.55	20.00	19.68	28.00	2.57	1.99	0.42	2.50	48.00	55.00	1	37	5	3	1	1	25.65	1,231.20				
O1504	10.57	80	31	11.64	2.50	5.12	4.00	13.04	21.50	0.00	2.14	1.88	5.00	25.50	33.00	1	33	18	3	1	0					10.57	269.54
pp632*	2.26	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp958*	9.26	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					9.26	0.00
	112.76																					**71.50**	**3,000.45**	**0.00**	**0.00**	**19.83**	**269.54**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0107	2009	69742	Northern Training Area Infrastructure	9.56	387.18				
O0109	2009	69742	Northern Training Area Infrastructure	0.87	30.45				
O0116	2009	69742	Northern Training Area Infrastructure	0.88	27.72				
O1503	2009	69742	Northern Training Area Infrastructure	2.46	118.08				
O1504	2009	69742	Northern Training Area Infrastructure					1.16	29.58
			TOTAL REMOVALS	**13.77**	**563.43**	**0.00**	**0.00**	**1.16**	**29.58**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**57.73**	**2,437.02**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**18.67**	**239.96**
TOTAL	**76.40**	**2,676.98**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-244. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O11-02R, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0102	9.77	79	21	9.49	3.50	14.09	10.50	12.03	17.00	20.54	4.12	1.60	5.50	27.50	36.50	1	21	18	3	1	3.98	PS					0.00	0.00
O0107	34.46	59	21	13.09	4.00	30.59	23.00	13.52	17.50	4.77	3.36	1.81	5.50	40.50	50.00	1	25	10	3	1	4.15	PS					34.46	1,395.63
O0107	0.01	59	21	13.09	4.00	30.59	23.00	13.52	17.50	4.77	3.36	1.81	5.50	40.50	50.00	1	25	10	3	1	4.15	PS					0.01	0.41
O0109	4.20	59	31	17.62	5.50	18.71	13.00	15.97	22.00	6.10	5.31	2.75	8.00	35.00	48.50	3	21	19	3	1	3.18	PS					4.20	147.00
O0109	0.01	59	31	17.62	5.50	18.71	13.00	15.97	22.00	6.10	5.31	2.75	8.00	35.00	48.50	3	21	19	3	1	4.18	PS					0.01	0.35
O0110	0.88	23	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
O0116	7.17	61	31	6.68	2.00	9.18	7.00	15.59	24.50	4.22	0.00	0.28	1.00	31.50	34.50	1	37	1	3	1	4.49	PS					7.17	225.86
O0342	2.11	86	21	10.10	3.00	8.21	6.00	19.84	29.00	14.41	5.03	3.66	9.50	35.00	47.50	7	25	24	3	1	4.06	PS			0.00	0.00		
O1103	0.42	52	31	97.61	30.00	39.25	28.33	10.05	11.67	12.62	4.35	2.68	6.67	40.00	76.67	1	18	12	3	1	3.61	PS					0.00	0.00
O1501	5.99	50	10	99.81	25.00	21.42	15.00	3.82	5.00	24.18	9.22	10.08	21.67	20.00	66.67	1	10	43	3	1	2.85	PS					0.00	0.00
O1503	25.65	70	31	12.18	4.50	26.55	20.00	19.68	28.00	2.57	1.99	0.42	2.50	48.00	55.00	1	37	5	3	1	4.75	CS	25.65	1,231.20				
O1504	10.57	80	31	11.64	2.50	5.12	4.00	13.04	21.50	0.00	2.14	1.88	5.00	25.50	33.00	1	33	18	3	1	4.32	PS					10.57	269.54
pp632*	2.26	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp958*	9.26	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					9.26	0.00
	112.76																						**25.65**	**1,231.20**	**0.00**	**0.00**	**65.68**	**2,038.79**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0107	2009	69742	Northern Training Area Infrastructure					9.56	387.18
O0109	2009	69742	Northern Training Area Infrastructure					0.87	30.45
O0116	2009	69742	Northern Training Area Infrastructure					0.88	27.72
O1503	2009	69742	Northern Training Area Infrastructure	2.46	118.08				
O1504	2009	69742	Northern Training Area Infrastructure					1.16	29.58
			TOTAL REMOVALS	**2.46**	**118.08**	**0.00**	**0.00**	**12.47**	**474.93**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**23.19**	**1,113.12**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**53.21**	**1,563.86**
TOTAL	**76.40**	**2,676.98**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-245. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O12-02**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1219	13.69	55	21	13.79	3.50	19.84	15.00	15.18	21.00	8.66	0.00	0.74	1.00	36.00	40.50	6	28	2	3	1	0			13.69	492.84		
O1222	2.65	81	31	47.21	15.00	30.68	22.50	15.22	22.00	8.56	4.30	3.16	7.00	44.50	66.50	8	29	14	3	1	0			2.65	117.93		
O1223	7.38	55	31	16.33	5.26	24.95	17.89	14.16	20.53	16.33	5.07	2.80	8.42	38.42	52.11	6	6	17	3	1	0			7.38	283.54		
O1224	1.68	46	13	38.93	11.50	14.91	10.50	9.68	15.50	36.22	6.72	2.66	8.50	26.00	46.00	7	13	28	3	1	0					0.00	0.00
O1226	29.85	53	31	33.85	11.00	25.14	18.00	10.82	14.50	7.73	1.89	0.96	2.50	32.50	46.00	1	27	7	3	1	1	29.85	970.13				
O1227	23.26	65	31	14.92	5.26	10.85	7.89	5.61	7.37	3.44	1.25	0.29	1.58	15.26	22.11	2	23	9	3	1	0					23.26	354.95
O1228	14.78	65	10	61.61	17.50	36.49	25.50	29.00	41.00	27.83	8.94	1.82	9.00	66.50	93.00	9	41	14	3	1	0			14.78	982.87		
O1229	22.05	56	13	70.72	19.50	29.37	20.00	10.61	15.00	35.61	12.90	2.76	13.50	35.00	68.00	1	44	28	3	1	1	22.05	771.75				
O1233	49.66	73	21	9.48	3.00	11.64	8.50	8.63	12.50	10.66	4.06	0.88	4.00	21.00	28.00	6	27	20	3	1	0					49.66	1,042.86
O1234	16.17	125	21	4.11	1.58	10.14	7.37	23.22	38.42	27.75	4.96	3.42	9.47	45.79	56.84	1	55	20	3	1	1	16.17	740.42				
O1238	2.43	95	31	47.23	10.00	37.04	28.33	14.80	20.00	0.00	0.00	3.78	6.67	48.33	65.00	3	25	7	3	1	1	2.43	117.44				
pp1054*	0.56	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp362*	2.51	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.51	0.00
	186.67																					**70.50**	**2,599.74**	**38.50**	**1,877.18**	**75.43**	**1,397.81**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1233	2009	69741	Tactical Training Base 19D/K OSUT					9.59	201.39
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**9.59**	**201.39**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**70.50**	**2,599.74**
Potentially Suitable Habitat	**38.50**	**1,877.18**
Future Potential Habitat	**65.84**	**1,196.42**
TOTAL	**174.84**	**5,673.34**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-246. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O12-02, Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1219	13.69	55	21	13.79	3.50	19.84	15.00	15.18	21.00	8.66	0.00	0.74	1.00	36.00	40.50	6	28	2	3	1	4.08	PS					13.69	492.84
O1222	2.65	81	31	47.21	15.00	30.68	22.50	15.22	22.00	8.56	4.30	3.16	7.00	44.50	66.50	8	29	14	3	1	4.01	PS					2.65	117.93
O1223	7.38	55	31	16.33	5.26	24.95	17.89	14.16	20.53	16.33	5.07	2.80	8.42	38.42	52.11	6	6	17	3	1	3.75	PS					7.38	283.54
O1224	1.68	46	13	38.93	11.50	14.91	10.50	9.68	15.50	36.22	6.72	2.66	8.50	26.00	46.00	7	13	28	3	1	3.08	PS					0.00	0.00
O1226	29.85	53	31	33.85	11.00	25.14	18.00	10.82	14.50	7.73	1.89	0.96	2.50	32.50	46.00	1	27	7	3	1	3.76	PS					29.85	970.13
O1227	23.26	65	31	14.92	5.26	10.85	7.89	5.61	7.37	3.44	1.25	0.29	1.58	15.26	22.11	2	23	9	3	1	3.57	PS					23.26	354.95
O1228	14.78	65	10	61.61	17.50	36.49	25.50	29.00	41.00	27.83	8.94	1.82	9.00	66.50	93.00	9	41	14	3	1	4.23	PS			14.78	982.87		
O1229	22.05	56	13	70.72	19.50	29.37	20.00	10.61	15.00	35.61	12.90	2.76	13.50	35.00	68.00	1	44	28	3	1	3.92	PS					22.05	771.75
O1233	49.66	73	21	9.48	3.00	11.64	8.50	8.63	12.50	10.66	4.06	0.88	4.00	21.00	28.00	6	27	20	3	1	3.41	PS					49.66	1,042.86
O1234	16.17	125	21	4.11	1.58	10.14	7.37	23.22	38.42	27.75	4.96	3.42	9.47	45.79	56.84	1	55	20	3	1	4.72	CS	16.17	740.42				
O1238	2.43	95	31	47.23	10.00	37.04	28.33	14.80	20.00	0.00	0.00	3.78	6.67	48.33	65.00	3	25	7	3	1	3.79	PS					2.43	117.44
pp1054*	0.56	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp362*	2.51	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.51	0.00
	186.65																						**16.17**	**740.42**	**14.78**	**982.87**	**153.48**	**4,151.44**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1233	2009	69741	Tactical Training Base 19D/K OSUT					9.59	201.39
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**9.59**	**201.39**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**16.17**	**740.42**
Potentially Suitable Habitat	**14.78**	**982.87**
Future Potential Habitat	**143.89**	**3,950.05**
TOTAL	**174.84**	**5,673.34**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-247. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O13-01**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1026	5.17	23	31	201.07	57.50	46.06	30.00	3.41	5.00	37.81	0.00	1.73	2.50	35.00	95.00	6	13	3	3	1	0					5.17	180.95
O1027	0.39	77	31	92.30	22.94	29.80	20.00	9.88	13.53	1.69	10.06	2.99	11.18	33.53	67.65	6	26	25	3	1	0			0.39	13.08		
O1305	38.08	82	21	14.31	5.00	10.82	7.00	14.44	19.00	21.90	4.98	1.63	5.50	26.00	36.50	1	22	21	3	1	0					38.08	990.08
O1308	0.58	82	21	23.38	6.00	21.17	15.50	17.69	24.50	6.44	3.54	0.00	2.50	40.00	48.50	1	31	8	3	1	1	0.58	23.20				
O1310	1.61	82	26	56.69	16.32	30.96	22.11	12.31	15.79	11.05	3.66	1.90	4.74	37.89	58.95	2	20	11	3	1	1	1.61	61.00				
O1311	35.92	46	31	78.27	21.50	26.99	19.00	13.23	18.00	17.97	8.62	2.68	10.00	37.00	68.50	1	23	22	3	1	0			35.92	1,329.04		
O1312	21.69	71	31	46.65	13.00	23.94	17.50	14.40	21.00	10.46	10.12	3.33	12.00	38.50	63.50	1	15	26	3	1	1	21.69	835.07				
pp693*	13.04	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					13.04	0.00
	116.48																					**23.88**	**919.27**	**36.31**	**1,342.12**	**56.29**	**1,171.03**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1305	2009	69741	Training Area Infrastructure-19D/K OSUT					18.42	478.92
O1308	2009	69741	Training Area Infrastructure-19D/K OSUT	0.34	13.60				
O1310	2009	69741	Training Area Infrastructure-19D/K OSUT	0.20	7.58				
O1311	2009	69741	Training Area Infrastructure-19D/K OSUT			5.20	192.40		
O1312	2009	69741	Training Area Infrastructure-19D/K OSUT	1.06	40.81				
pp693*	2009	69741	Training Area Infrastructure-19D/K OSUT					0.32	0.00
			2009 SUB-TOTAL	**1.60**	**61.99**	**5.20**	**192.40**	**18.74**	**478.92**
O1027	2010	65557	Repair Existing Training Area Roads, Phase 1			0.28	9.39		
O1305	2010	65557	Repair Existing Training Area Roads, Phase 1					2.28	59.28
O1312	2010	65557	Repair Existing Training Area Roads, Phase 1	1.24	47.74				
pp693*	2010	65557	Repair Existing Training Area Roads, Phase 1					3.01	0.00
			2010 SUB-TOTAL	**1.24**	**47.74**	**0.28**	**9.39**	**5.29**	**59.28**
			TOTAL REMOVALS	**2.84**	**109.73**	**5.48**	**201.79**	**24.03**	**538.20**

POST-PROJECT	**2009**		**non-contiguous habitat**		**2010**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**22.28**	**857.28**	**1.65**	**63.02**	**19.39**	**746.52**
Potentially Suitable Habitat	**31.11**	**1,149.72**	**0.00**	**0.00**	**30.83**	**1,140.33**
Future Potential Habitat	**37.55**	**692.11**	**0.00**	**0.00**	**32.26**	**632.83**
TOTAL	**90.94**	**2,699.11**	**1.65**	**63.02**	**82.48**	**2,519.68**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Stands O1308 and O1310 will be non-contiguous as a result of project impacts and cann be counted towards the available foraging habitat for the partition.

Appendix Table H-248. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O13-01, Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1026	5.17	23	31	201.07	57.50	46.06	30.00	3.41	5.00	37.81	0.00	1.73	2.50	35.00	95.00	6	13	3	3	1	2.53	NH					5.17	180.95
O1027	0.39	77	31	92.30	22.94	29.80	20.00	9.88	13.53	1.69	10.06	2.99	11.18	33.53	67.65	6	26	25	3	1	3.44	PS					0.39	13.08
O1305	38.08	82	21	14.31	5.00	10.82	7.00	14.44	19.00	21.90	4.98	1.63	5.50	26.00	36.50	1	22	21	3	1	4.08	PS					38.08	990.08
O1308	0.58	82	21	23.38	6.00	21.17	15.50	17.69	24.50	6.44	3.54	0.00	2.50	40.00	48.50	1	31	8	3	1	4.58	PS					0.58	23.20
O1310	1.61	82	26	56.69	16.32	30.96	22.11	12.31	15.79	11.05	3.66	1.90	4.74	37.89	58.95	2	20	11	3	1	3.99	PS					1.61	61.00
O1311	35.92	46	31	78.27	21.50	26.99	19.00	13.23	18.00	17.97	8.62	2.68	10.00	37.00	68.50	1	23	22	3	1	3.80	PS					35.92	1,329.04
O1312	21.69	71	31	46.65	13.00	23.94	17.50	14.40	21.00	10.46	10.12	3.33	12.00	38.50	63.50	1	15	26	3	1	4.08	PS					21.69	835.07
pp693*	13.04	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					13.04	0.00
	116.48																						**0.00**	**0.00**	**0.00**	**0.00**	**116.48**	**3,432.42**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1305	2009	69741	Training Area Infrastructure-19D/K OSUT					18.42	478.92
O1308	2009	69741	Training Area Infrastructure-19D/K OSUT					0.34	13.60
O1310	2009	69741	Training Area Infrastructure-19D/K OSUT					0.20	7.58
O1311	2009	69741	Training Area Infrastructure-19D/K OSUT					5.20	192.40
O1312	2009	69741	Training Area Infrastructure-19D/K OSUT					1.06	40.81
pp693*	2009	69741	Training Area Infrastructure-19D/K OSUT					0.32	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**25.54**	**733.31**
O1027	2010	65557	Repair Existing Training Area Roads, Phase 1					0.28	9.39
O1305	2010	65557	Repair Existing Training Area Roads, Phase 1					2.28	59.28
O1312	2010	65557	Repair Existing Training Area Roads, Phase 1					1.24	47.74
pp693*	2010	65557	Repair Existing Training Area Roads, Phase 1					3.01	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**6.81**	**116.41**
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**32.35**	**849.72**

POST-PROJECT	**2009**		**non-contiguous habitat**		**2010**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**90.94**	**2,699.11**	**1.65**	**63.02**	**82.48**	**2,519.68**
TOTAL	**90.94**	**2,699.11**	**1.65**	**63.02**	**82.48**	**2,519.68**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Stands O1308 and O1310 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition.

Appendix Table H-249. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O13-01**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1026	5.17	23	31	201.07	57.50	46.06	30.00	3.41	5.00	37.81	0.00	1.73	2.50	35.00	95.00	6	13	3	3	1	0					5.17	180.95
O1027	0.39	77	31	92.30	22.94	29.80	20.00	9.88	13.53	1.69	10.06	2.99	11.18	33.53	67.65	6	26	25	3	1	0			0.39	13.08		
O1305	38.08	82	21	14.31	5.00	10.82	7.00	14.44	19.00	21.90	4.98	1.63	5.50	26.00	36.50	1	22	21	3	1	0					38.08	990.08
O1308	0.58	82	21	23.38	6.00	21.17	15.50	17.69	24.50	6.44	3.54	0.00	2.50	40.00	48.50	1	31	8	3	1	1	0.58	23.20				
O1310	1.61	82	26	56.69	16.32	30.96	22.11	12.31	15.79	11.05	3.66	1.90	4.74	37.89	58.95	2	20	11	3	1	1	1.61	61.00				
O1311	35.92	46	31	78.27	21.50	26.99	19.00	13.23	18.00	17.97	8.62	2.68	10.00	37.00	68.50	1	23	22	3	1	0			35.92	1,329.04		
O1312	21.69	71	31	46.65	13.00	23.94	17.50	14.40	21.00	10.46	10.12	3.33	12.00	38.50	63.50	1	15	26	3	1	1	21.69	835.07				
pp693*	13.04	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					13.04	0.00
	116.48																					**23.88**	**919.27**	**36.31**	**1,342.12**	**56.29**	**1,171.03**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1027	2010	65557	Repair Existing Training Area Roads, Phase 1			0.28	9.39		
O1305	2010	65557	Repair Existing Training Area Roads, Phase 1					3.30	85.80
O1312	2010	65557	Repair Existing Training Area Roads, Phase 1	1.53	58.91				
pp693*	2010	65557	Repair Existing Training Area Roads, Phase 1					3.33	0.00
			TOTAL REMOVALS	**1.53**	**58.91**	**0.28**	**9.39**	**6.63**	**85.80**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**22.35**	**860.36**
Potentially Suitable Habitat	**36.03**	**1,332.73**
Future Potential Habitat	**49.66**	**1,085.23**
TOTAL	**108.04**	**3,278.32**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-250. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O13-01, Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10 14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1026	5.17	23	31	201.07	57.50	46.06	30.00	3.41	5.00	37.81	0.00	1.73	2.50	35.00	95.00	6	13	3	3	1	2.53	NH					5.17	180.95
O1027	0.39	77	31	92.30	22.94	29.80	20.00	9.88	13.53	1.69	10.06	2.99	11.18	33.53	67.65	6	26	25	3	1	3.44	PS					0.39	13.08
O1305	38.08	82	21	14.31	5.00	10.82	7.00	14.44	19.00	21.90	4.98	1.63	5.50	26.00	36.50	1	22	21	3	1	4.08	PS					38.08	990.08
O1308	0.58	82	21	23.38	6.00	21.17	15.50	17.69	24.50	6.44	3.54	0.00	2.50	40.00	48.50	1	31	8	3	1	4.58	PS					0.58	23.20
O1310	1.61	82	26	56.69	16.32	30.96	22.11	12.31	15.79	11.05	3.66	1.90	4.74	37.89	58.95	2	20	11	3	1	3.99	PS					1.61	61.00
O1311	35.92	46	31	78.27	21.50	26.99	19.00	13.23	18.00	17.97	8.62	2.68	10.00	37.00	68.50	1	23	22	3	1	3.80	PS					35.92	1,329.04
O1312	21.69	71	31	46.65	13.00	23.94	17.50	14.40	21.00	10.46	10.12	3.33	12.00	38.50	63.50	1	15	26	3	1	4.08	PS					21.69	835.07
pp693*	13.04	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					13.04	0.00
	116.48																						**0.00**	**0.00**	**0.00**	**0.00**	**116.48**	**3,432.42**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1027	2010	65557	Repair Existing Training Area Roads, Phase 1					0.28	9.39
O1305	2010	65557	Repair Existing Training Area Roads, Phase 1					3.30	85.80
O1312	2010	65557	Repair Existing Training Area Roads, Phase 1					1.53	58.91
pp693*	2010	65557	Repair Existing Training Area Roads, Phase 1					3.33	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**8.44**	**154.10**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**108.04**	**3,278.32**
TOTAL	**108.04**	**3,278.32**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-251. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Clust **O13-02, Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgi

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1301	4.55	77	31	36.42	9.50	8.87	6.50	17.75	27.00	19.29	14.31	3.38	14.50	33.50	57.50	7	21	40	3	1	0			4.55	152.43		
O1303	35.12	65	31	52.28	14.12	26.72	19.41	14.46	21.18	22.78	5.46	3.85	9.41	40.59	64.12	2	5	18	3	1	1	35.12	1,425.52				
O1304	23.48	65	31	5.81	2.00	9.85	7.50	20.79	32.50	3.70	4.41	3.50	7.50	40.00	49.50	2	12	21	3	1	1	23.48	939.20				
O1305	56.78	82	21	14.31	5.00	10.82	7.00	14.44	19.00	21.90	4.98	1.63	5.50	26.00	36.50	1	22	21	3	1	0					56.78	1,476.28
O1307	14.48	79	31	57.65	17.00	21.73	16.00	13.64	18.50	11.80	4.96	1.27	5.00	34.50	56.50	8	20	15	3	1	0			14.48	499.56		
O1308	15.34	82	21	23.38	6.00	21.17	15.50	17.69	24.50	6.44	3.54	0.00	2.50	40.00	48.50	1	31	8	3	1	1	15.34	613.60				
O1309	49.56	82	31	6.12	2.00	6.06	5.00	8.84	13.00	25.47	14.17	3.82	15.00	18.00	35.00	1	21	55	3	1	0					49.56	892.08
O1310	10.33	82	26	56.69	16.32	30.96	22.11	12.31	15.79	11.05	3.66	1.90	4.74	37.89	58.95	2	20	11	3	1	1	10.33	391.40				
O1315	10.22	42	31	33.65	9.00	13.49	9.00	0.87	1.00	20.90	2.87	3.70	7.50	10.00	26.50	4	15	31	3	1	0					10.22	102.20
pp479*	2.98	18	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.98	0.00
pp480*	9.25	18	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					9.25	0.00
pp481*	2.17	18	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.17	0.00
	234.26																					**84.27**	**3,369.72**	**19.03**	**651.99**	**130.96**	**2,470.56**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1301	2009	69741	Training Area Infrastructure 19D/K OSUT			0.46	15.41		
O1303	2009	69741	Training Area Infrastructure 19D/K OSUT	8.44	342.58				
O1304	2009	69741	Training Area Infrastructure 19D/K OSUT	2.36	94.40				
O1305	2009	69741	Training Area Infrastructure 19D/K OSUT					10.70	278.20
O1308	2009	69741	Training Area Infrastructure 19D/K OSUT	5.96	238.40				
O1309	2009	69741	Training Area Infrastructure 19D/K OSUT					14.34	258.12
O1310	2009	69741	Training Area Infrastructure 19D/K OSUT	3.53	133.75				
O1315	2009	69741	Training Area Infrastructure 19D/K OSUT					2.54	25.40
pp479*	2009	69741	Training Area Infrastructure 19D/K OSUT					1.29	0.00
pp480*	2009	69741	Training Area Infrastructure 19D/K OSUT					0.02	0.00
pp481*	2009	69741	Training Area Infrastructure 19D/K OSUT					1.77	0.00
			TOTAL REMOVALS	**20.29**	**809.13**	**0.46**	**15.41**	**30.66**	**561.72**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**63.98**	**2,560.59**
Potentially Suitable Habitat	**18.57**	**636.58**
Future Potential Habitat	**100.30**	**1,908.84**
TOTAL	**182.85**	**5,106.01**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-252. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O13-02, Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1301	4.55	77	31	36.42	9.50	8.87	6.50	17.75	27.00	19.29	14.31	3.38	14.50	33.50	57.50	7	21	40	3	1	3.81	PS					4.55	152.43
O1303	35.12	65	31	52.28	14.12	26.72	19.41	14.46	21.18	22.78	5.46	3.85	9.41	40.59	64.12	2	5	18	3	1	4.09	PS					35.12	1,425.52
O1304	23.48	65	31	5.81	2.00	9.85	7.50	20.79	32.50	3.70	4.41	3.50	7.50	40.00	49.50	2	12	21	3	1	4.42	CS	23.48	939.20				
O1305	56.78	82	21	14.31	5.00	10.82	7.00	14.44	19.00	21.90	4.98	1.63	5.50	26.00	36.50	1	22	21	3	1	4.08	PS					56.78	1,476.28
O1307	14.48	79	31	57.65	17.00	21.73	16.00	13.64	18.50	11.80	4.96	1.27	5.00	34.50	56.50	8	20	15	3	1	3.70	PS					14.48	499.56
O1308	15.34	82	21	23.38	6.00	21.17	15.50	17.69	24.50	6.44	3.54	0.00	2.50	40.00	48.50	1	31	8	3	1	4.58	PS					15.34	613.60
O1309	49.56	82	31	6.12	2.00	6.06	5.00	8.84	13.00	25.47	14.17	3.82	15.00	18.00	35.00	1	21	55	3	1	3.46	PS					49.56	892.08
O1310	10.33	82	26	56.69	16.32	30.96	22.11	12.31	15.79	11.05	3.66	1.90	4.74	37.89	58.95	2	20	11	3	1	3.99	PS					10.33	391.40
O1315	10.22	42	31	33.65	9.00	13.49	9.00	0.87	1.00	20.90	2.87	3.70	7.50	10.00	26.50	4	15	31	3	1	2.49	PS					10.22	102.20
pp479*	2.98	18	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.98	0.00
pp480*	9.25	18	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					9.25	0.00
pp481*	2.17	18	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.17	0.00
	234.26																						**23.48**	**939.20**	**0.00**	**0.00**	**210.78**	**5,553.07**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1301	2009	69741	Training Area Infrastructure 19D/K OSUT					0.46	15.41
O1303	2009	69741	Training Area Infrastructure 19D/K OSUT					8.44	342.58
O1304	2009	69741	Training Area Infrastructure 19D/K OSUT	2.36	94.40				
O1305	2009	69741	Training Area Infrastructure 19D/K OSUT					10.70	278.20
O1308	2009	69741	Training Area Infrastructure 19D/K OSUT					5.96	238.40
O1309	2009	69741	Training Area Infrastructure 19D/K OSUT					14.34	258.12
O1310	2009	69741	Training Area Infrastructure 19D/K OSUT					3.53	133.75
O1315	2009	69741	Training Area Infrastructure 19D/K OSUT					2.54	25.40
pp479*	2009	69741	Training Area Infrastructure 19D/K OSUT					1.29	0.00
pp480*	2009	69741	Training Area Infrastructure 19D/K OSUT					0.02	0.00
pp481*	2009	69741	Training Area Infrastructure 19D/K OSUT					1.77	0.00
			TOTAL REMOVALS	**2.36**	**94.40**	**0.00**	**0.00**	**49.05**	**1,291.86**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**21.12**	**844.80**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**161.73**	**4,261.21**
TOTAL	**182.85**	**5,106.01**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-253. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O13-06R Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1211	19.81	85	21	3.72	1.00	5.01	4.00	4.57	6.00	8.88	1.14	1.12	2.50	10.00	13.50	1	29	19	3	1	0					19.81	198.10
O1212	0.14	51	22P	92.00	25.50	27.80	19.50	1.98	2.50	4.92	0.62	0.50	1.00	22.00	48.50	7	35	4	3	1	0					0.14	3.08
O1217	45.42	85	21	8.45	3.00	13.15	10.00	12.58	18.50	2.10	0.00	1.33	2.00	28.50	33.50	6	29	5	3	1	0					45.42	1,294.47
O1226	10.06	53	31	33.85	11.00	25.14	18.00	10.82	14.50	7.73	1.89	0.96	2.50	32.50	46.00	1	27	7	3	1	1	10.06	326.95				
O1230	0.01	50	26	7.63	2.50	8.77	6.50	12.49	19.50	14.20	5.45	2.55	7.50	26.00	36.00	7	22	27	3	1	0					0.01	0.26
O1311	4.36	46	31	78.27	21.50	26.99	19.00	13.23	18.00	17.97	8.62	2.68	10.00	37.00	68.50	1	23	22	3	1	0			4.36	161.32		
O1312	59.99	71	31	46.65	13.00	23.94	17.50	14.40	21.00	10.46	10.12	3.33	12.00	38.50	63.50	1	15	26	3	1	1	59.99	2,309.62				
O1315	0.12	42	31	33.65	9.00	13.49	9.00	0.87	1.00	20.90	2.87	3.70	7.50	10.00	26.50	4	15	31	3	1	0					0.00	0.00
O1320	65.84	57	26	46.75	13.50	18.52	12.50	6.21	8.50	40.32	14.80	3.83	16.00	21.00	50.50	5	11	43	3	1	0					65.84	1,382.64
O1321	9.43	65	31	28.56	9.00	11.44	8.00	4.65	10.00	8.70	0.92	0.92	1.50	18.00	28.50	1	39	10	3	1	0					9.43	169.74
	215.18																					**70.05**	**2,636.57**	**4.36**	**161.32**	**140.65**	**3,048.29**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1211	2009	65554	Construct Training Area Roads, Paved					2.36	23.60
O1217	2009	65554	Construct Training Area Roads, Paved					5.22	148.77
O1226	2009	65554	Construct Training Area Roads, Paved	1.58	51.35				
O1230	2009	65554	Construct Training Area Roads, Paved					0.01	0.26
O1312	2009	65554	Construct Training Area Roads, Paved	5.77	222.15				
O1320	2009	65554	Construct Training Area Roads, Paved					2.01	42.21
O1320	2009	69741	Training Area Infrastructure 19D/K OSUT-Upgrade Tank Trails					2.06	43.26
O1321	2009	65554	Construct Training Area Roads, Paved					1.48	26.64
O1321	2009	69741	Training Area Infrastructure 19D/K OSUT-Upgrade Tank Trails					3.72	66.96
			TOTAL REMOVALS	**7.35**	**273.50**	**0.00**	**0.00**	**16.86**	**351.70**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**62.70**	**2,363.07**
Potentially Suitable Habitat	**4.36**	**161.32**
Future Potential Habitat	**123.79**	**2,696.59**
TOTAL	**190.85**	**5,220.98**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-254. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O13-06R, Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10 14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1211	19.81	85	21	3.72	1.00	5.01	4.00	4.57	6.00	8.88	1.14	1.12	2.50	10.00	13.50	1	29	19	3	1	3.29	PS					19.81	198.10
O1212	0.14	51	22P	92.00	25.50	27.80	19.50	1.98	2.50	4.92	0.62	0.50	1.00	22.00	48.50	7	35	4	3	1	2.82	PS					0.14	3.08
O1217	45.42	85	21	8.45	3.00	13.15	10.00	12.58	18.50	2.10	0.00	1.33	2.00	28.50	33.50	6	29	5	3	1	3.87	PS					45.42	1,294.47
O1226	10.06	53	31	33.85	11.00	25.14	18.00	10.82	14.50	7.73	1.89	0.96	2.50	32.50	46.00	1	27	7	3	1	3.76	PS					10.06	326.95
O1230	0.01	50	26	7.63	2.50	8.77	6.50	12.49	19.50	14.20	5.45	2.55	7.50	26.00	36.00	7	22	27	3	1	3.38	PS					0.01	0.26
O1311	4.36	46	31	78.27	21.50	26.99	19.00	13.23	18.00	17.97	8.62	2.68	10.00	37.00	68.50	1	23	22	3	1	3.80	PS					4.36	161.32
O1312	59.99	71	31	46.65	13.00	23.94	17.50	14.40	21.00	10.46	10.12	3.33	12.00	38.50	63.50	1	15	26	3	1	4.08	PS					59.99	2,309.62
O1315	0.12	42	31	33.65	9.00	13.49	9.00	0.87	1.00	20.90	2.87	3.70	7.50	10.00	26.50	4	15	31	3	1	2.49	PS					0.00	0.00
O1320	65.84	57	26	46.75	13.50	18.52	12.50	6.21	8.50	40.32	14.80	3.83	16.00	21.00	50.50	5	11	43	3	1	2.82	PS					65.84	1,382.64
O1321	9.43	65	31	28.56	9.00	11.44	8.00	4.65	10.00	8.70	0.92	0.92	1.50	18.00	28.50	1	39	10	3	1	3.57	PS					9.43	169.74
	215.18																						**0.00**	**0.00**	**0.00**	**0.00**	**215.06**	**5,846.18**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1211	2009	65554	Construct Training Area Roads, Paved					2.36	23.60
O1217	2009	65554	Construct Training Area Roads, Paved					5.22	148.77
O1226	2009	65554	Construct Training Area Roads, Paved					1.58	51.35
O1230	2009	65554	Construct Training Area Roads, Paved					0.01	0.26
O1312	2009	65554	Construct Training Area Roads, Paved					5.77	222.15
O1320	2009	65554	Construct Training Area Roads, Paved					2.01	42.21
O1320	2009	69741	Training Area Infrastructure 19D/K OSUT-Upgrade Tank Trails					2.06	43.26
O1321	2009	65554	Construct Training Area Roads, Paved					1.48	26.64
O1321	2009	69741	Training Area Infrastructure 19D/K OSUT-Upgrade Tank Trails					3.72	66.96
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**24.21**	**625.20**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**190.85**	**5,220.98**
TOTAL	**190.85**	**5,220.98**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-255. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O13-06R Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1211	19.81	85	21	3.72	1.00	5.01	4.00	4.57	6.00	8.88	1.14	1.12	2.50	10.00	13.50	1	29	19	3	1	0					19.81	198.10
O1212	0.14	51	22P	92.00	25.50	27.80	19.50	1.98	2.50	4.92	0.62	0.50	1.00	22.00	48.50	7	35	4	3	1	0					0.14	3.08
O1217	45.42	85	21	8.45	3.00	13.15	10.00	12.58	18.50	2.10	0.00	1.33	2.00	28.50	33.50	6	29	5	3	1	0					45.42	1,294.47
O1226	10.06	53	31	33.85	11.00	25.14	18.00	10.82	14.50	7.73	1.89	0.96	2.50	32.50	46.00	1	27	7	3	1	1	10.06	326.95				
O1230	0.01	50	26	7.63	2.50	8.77	6.50	12.49	19.50	14.20	5.45	2.55	7.50	26.00	36.00	7	22	27	3	1	0					0.01	0.26
O1311	4.36	46	31	78.27	21.50	26.99	19.00	13.23	18.00	17.97	8.62	2.68	10.00	37.00	68.50	1	23	22	3	1	0			4.36	161.32		
O1312	59.99	71	31	46.65	13.00	23.94	17.50	14.40	21.00	10.46	10.12	3.33	12.00	38.50	63.50	1	15	26	3	1	1	59.99	2,309.62				
O1315	0.12	42	31	33.65	9.00	13.49	9.00	0.87	1.00	20.90	2.87	3.70	7.50	10.00	26.50	4	15	31	3	1	0					0.00	0.00
O1320	65.84	57	26	46.75	13.50	18.52	12.50	6.21	8.50	40.32	14.80	3.83	16.00	21.00	50.50	5	11	43	3	1	0					65.84	1,382.64
O1321	9.43	65	31	28.56	9.00	11.44	8.00	4.65	10.00	8.70	0.92	0.92	1.50	18.00	28.50	1	39	10	3	1	0					9.43	169.74
	215.18																					**70.05**	**2,636.57**	**4.36**	**161.32**	**140.65**	**3,048.29**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1211	2009	65554	Construct Training Area Roads, Paved					2.36	23.60
O1217	2009	65554	Construct Training Area Roads, Paved					5.22	148.77
O1226	2009	65554	Construct Training Area Roads, Paved	1.58	51.35				
O1230	2009	65554	Construct Training Area Roads, Paved					0.01	0.26
O1312	2009	65554	Construct Training Area Roads, Paved	5.77	222.15				
O1320	2009	65554	Construct Training Area Roads, Paved					2.01	42.21
O1321	2009	65554	Construct Training Area Roads, Paved					1.48	26.64
			TOTAL REMOVALS	**7.35**	**273.50**	**0.00**	**0.00**	**11.08**	**241.48**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**62.70**	**2,363.07**
Potentially Suitable Habitat	**4.36**	**161.32**
Future Potential Habitat	**129.57**	**2,806.81**
TOTAL	**196.63**	**5,331.20**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-256. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O13-06R, Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10 14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1211	19.81	85	21	3.72	1.00	5.01	4.00	4.57	6.00	8.88	1.14	1.12	2.50	10.00	13.50	1	29	19	3	1	3.29	PS					19.81	198.10
O1212	0.14	51	22P	92.00	25.50	27.80	19.50	1.98	2.50	4.92	0.62	0.50	1.00	22.00	48.50	7	35	4	3	1	2.82	PS					0.14	3.08
O1217	45.42	85	21	8.45	3.00	13.15	10.00	12.58	18.50	2.10	0.00	1.33	2.00	28.50	33.50	6	29	5	3	1	3.87	PS					45.42	1,294.47
O1226	10.06	53	31	33.85	11.00	25.14	18.00	10.82	14.50	7.73	1.89	0.96	2.50	32.50	46.00	1	27	7	3	1	3.76	PS					10.06	326.95
O1230	0.01	50	26	7.63	2.50	8.77	6.50	12.49	19.50	14.20	5.45	2.55	7.50	26.00	36.00	7	22	27	3	1	3.38	PS					0.01	0.26
O1311	4.36	46	31	78.27	21.50	26.99	19.00	13.23	18.00	17.97	8.62	2.68	10.00	37.00	68.50	1	23	22	3	1	3.80	PS					4.36	161.32
O1312	59.99	71	31	46.65	13.00	23.94	17.50	14.40	21.00	10.46	10.12	3.33	12.00	38.50	63.50	1	15	26	3	1	4.08	PS					59.99	2,309.62
O1315	0.12	42	31	33.65	9.00	13.49	9.00	0.87	1.00	20.90	2.87	3.70	7.50	10.00	26.50	4	15	31	3	1	2.49	PS					0.00	0.00
O1320	65.84	57	26	46.75	13.50	18.52	12.50	6.21	8.50	40.32	14.80	3.83	16.00	21.00	50.50	5	11	43	3	1	2.82	PS					65.84	1,382.64
O1321	9.43	65	31	28.56	9.00	11.44	8.00	4.65	10.00	8.70	0.92	0.92	1.50	18.00	28.50	1	39	10	3	1	3.57	PS					9.43	169.74
	215.18																						**0.00**	**0.00**	**0.00**	**0.00**	**215.06**	**5,846.18**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1211	2009	65554	Construct Training Area Roads, Paved					2.36	23.60
O1217	2009	65554	Construct Training Area Roads, Paved					5.22	148.77
O1226	2009	65554	Construct Training Area Roads, Paved					1.58	51.35
O1230	2009	65554	Construct Training Area Roads, Paved					0.01	0.26
O1312	2009	65554	Construct Training Area Roads, Paved					5.77	222.15
O1320	2009	65554	Construct Training Area Roads, Paved					2.01	42.21
O1321	2009	65554	Construct Training Area Roads, Paved					1.48	26.64
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**18.43**	**514.98**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**196.63**	**5,331.20**
TOTAL	**196.63**	**5,331.20**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
22P = Slash Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-257. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O14-01**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1405	0.25	85	10	32.84	11.00	15.71	10.50	3.87	5.00	34.38	8.04	1.57	7.50	15.50	34.00	1	25	33	3	1	0					0.25	3.88
O1407	31.43	64	31	40.81	12.50	9.94	7.00	12.07	20.50	25.79	2.21	2.86	6.00	27.50	46.00	1	20	19	3	1	0					31.43	864.33
O1408	29.12	49	31	18.29	5.29	15.36	11.18	17.95	28.82	5.95	1.61	0.33	1.76	40.00	47.06	1	20	6	3	1	1	29.12	1,164.80				
O1415	14.19	62	21	2.67	1.00	9.17	7.00	8.17	13.00	14.26	2.85	1.76	4.50	20.00	25.50	1	21	21	3	1	0					14.19	283.80
O1416	59.14	65	26	35.65	9.00	14.82	10.50	7.33	10.50	5.15	1.61	1.20	3.50	21.00	33.50	7	22	11	3	1	0					59.14	1,241.94
O1417	17.21	66	31	29.64	8.00	17.15	12.50	12.89	19.00	14.72	6.46	3.00	9.50	31.50	49.00	2	20	24	3	1	1	17.21	542.12				
O1418	60.43	94	21	10.78	3.50	10.89	8.50	18.45	27.00	10.30	2.30	0.28	2.00	35.50	41.00	2	31	8	3	1	1	60.43	2,145.27				
O1420	13.79	49	31	38.74	10.50	38.39	28.50	11.58	15.00	1.59	0.00	0.00	0.00	43.50	54.00	2	51	0	3	1	1	13.79	599.87				
O1423	0.39	87	42**	11.70	3.50	12.76	9.50	9.76	14.50	26.77	19.26	3.01	18.00	24.00	45.50	7	24	50	3	1	0					0.00	0.00
O1431	12.94	78	21	62.86	16.50	18.56	12.50	9.28	14.00	7.33	1.12	2.78	5.50	26.50	48.50	6	15	12	3	1	0					12.94	342.91
pp540*	0.02	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.02	0.00
pp752*	10.40	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					10.40	0.00
	249.31																					**120.55**	**4,452.06**	**0.00**	**0.00**	**128.37**	**2,736.86**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1408	2009	69741	Training Area Infrastructure 19D/K OSUT-Upgrade Tank Trails	3.87	154.80				
O1416	2009	69741	Training Area Infrastructure 19D/K OSUT-Upgrade Tank Trails					6.26	131.46
O1417	2009	69741	Training Area Infrastructure 19D/K OSUT-Upgrade Tank Trails	1.99	62.69				
O1418	2009	69741	Training Area Infrastructure 19D/K OSUT-Upgrade Tank Trails	1.97	69.94				
O1420	2009	69741	Training Area Infrastructure 19D/K OSUT-Upgrade Tank Trails	6.16	267.96				
pp752*	2009	69741	Training Area Infrastructure 19D/K OSUT-Upgrade Tank Trails					3.73	0.00
			TOTAL REMOVALS	**13.99**	**555.39**	**0.00**	**0.00**	**9.99**	**131.46**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**106.56**	**3,896.67**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**118.38**	**2,605.40**
TOTAL	**224.94**	**6,502.07**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-258. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O14-01, Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1405	0.25	85	10	32.84	11.00	15.71	10.50	3.87	5.00	34.38	8.04	1.57	7.50	15.50	34.00	1	25	33	3	1	3.05	PS					0.25	3.88
O1407	31.43	64	31	40.81	12.50	9.94	7.00	12.07	20.50	25.79	2.21	2.86	6.00	27.50	46.00	1	20	19	3	1	3.75	PS					31.43	864.33
O1408	29.12	49	31	18.29	5.29	15.36	11.18	17.95	28.82	5.95	1.61	0.33	1.76	40.00	47.06	1	20	6	3	1	3.45	PS					29.12	1,164.80
O1415	14.19	62	21	2.67	1.00	9.17	7.00	8.17	13.00	14.26	2.85	1.76	4.50	20.00	25.50	1	21	21	3	1	3.44	PS					14.19	283.80
O1416	59.14	65	26	35.65	9.00	14.82	10.50	7.33	10.50	5.15	1.61	1.20	3.50	21.00	33.50	7	22	11	3	1	3.06	PS					59.14	1,241.94
O1417	17.21	66	31	29.64	8.00	17.15	12.50	12.89	19.00	14.72	6.46	3.00	9.50	31.50	49.00	2	20	24	3	1	3.76	PS					17.21	542.12
O1418	60.43	94	21	10.78	3.50	10.89	8.50	18.45	27.00	10.30	2.30	0.28	2.00	35.50	41.00	2	31	8	3	1	4.38	CS	60.43	2,145.27				
O1420	13.79	49	31	38.74	10.50	38.39	28.50	11.58	15.00	1.59	0.00	0.00	0.00	43.50	54.00	2	51	0	3	1	3.75	PS					13.79	599.87
O1423	0.39	87	42**	11.70	3.50	12.76	9.50	9.76	14.50	26.77	19.26	3.01	18.00	24.00	45.50	7	24	50	3	1	3.25	PS					0.00	0.00
O1431	12.94	78	21	62.86	16.50	18.56	12.50	9.28	14.00	7.33	1.12	2.78	5.50	26.50	48.50	6	15	12	3	1	3.17	PS					12.94	342.91
pp540*	0.02	7	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.60	NH					0.02	0.00
pp752*	10.40	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.60	NH					10.40	0.00
	249.31																						**60.43**	**2,145.27**	**0.00**	**0.00**	**188.49**	**5,043.65**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1408	2009	69741	Training Area Infrastructure 19D/K OSUT-Upgrade Tank Trails					3.87	154.80
O1416	2009	69741	Training Area Infrastructure 19D/K OSUT-Upgrade Tank Trails					6.26	131.46
O1417	2009	69741	Training Area Infrastructure 19D/K OSUT-Upgrade Tank Trails					1.99	62.69
O1418	2009	69741	Training Area Infrastructure 19D/K OSUT-Upgrade Tank Trails	1.97	69.94				
O1420	2009	69741	Training Area Infrastructure 19D/K OSUT-Upgrade Tank Trails					6.16	267.96
pp752*	2009	69741	Training Area Infrastructure 19D/K OSUT-Upgrade Tank Trails					3.73	0.00
			TOTAL REMOVALS	**1.97**	**69.94**	**0.00**	**0.00**	**22.01**	**616.91**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**58.46**	**2,075.33**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**166.48**	**4,426.74**
TOTAL	**224.94**	**6,502.07**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-259. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O14-02**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1309	1.93	82	31	6.12	2.00	6.06	5.00	8.84	13.00	25.47	14.17	3.82	15.00	18.00	35.00	1	21	55	3	1	0					0.00	0.00
O1318	0.04	55	31	10.66	2.50	15.06	11.00	12.06	17.00	9.85	7.63	2.89	11.00	28.00	41.50	1	23	28	3	1	0					0.00	0.00
O1408	1.15	49	31	18.29	5.29	15.36	11.18	17.95	28.82	5.95	1.61	0.33	1.76	40.00	47.06	1	20	6	3	1	1	0.00	0.00				
O1409	7.81	39	31	20.40	5.50	10.63	7.50	18.26	27.50	26.22	11.86	1.62	10.50	35.00	51.00	1	20	32	3	1	1	0.00	0.00				
O1413	22.70	93	31U	0.00	0.00	1.10	1.00	14.76	27.50	2.55	0.00	0.25	0.50	28.50	29.00	1	23	2	3	1	0					22.70	646.95
O1420	0.76	49	31	38.74	10.50	38.39	28.50	11.58	15.00	1.59	0.00	0.00	0.00	43.50	54.00	2	51	0	3	1	1	0.00	0.00				
O1421	23.77	46	31	24.26	7.78	14.70	10.56	11.23	17.22	9.49	2.56	1.10	3.89	27.78	39.44	8	13	12	3	1	0					23.77	660.33
O1422	35.69	84	21	33.94	10.50	11.39	9.00	25.59	43.00	1.11	3.80	0.69	3.50	52.00	66.00	2	28	11	3	1	1	35.69	1,855.88				
O1422	0.02	84	21U	33.94	10.50	11.39	9.00	25.59	43.00	1.11	3.80	0.69	3.50	52.00	66.00	2	28	11	3	1	1	0.02	1.04				
O1515	3.13	63	21P	6.36	2.50	10.34	8.50	8.02	12.00	7.05	4.65	2.87	8.50	20.50	31.50	1	14	29	3	1	0					3.13	64.17
O1515	4.98	63	21PU	6.36	2.50	10.34	8.50	8.02	12.00	7.05	4.65	2.87	8.50	20.50	31.50	1	14	29	3	1	0					4.98	102.09
O1517	1.13	26	31P	268.81	76.67	5.76	3.33	0.00	0.00	0.00	0.00	0.00	0.00	3.33	80.00	6	10	0	3	1	0					1.13	3.76
O1517	8.82	26	31PU	268.81	76.67	5.76	3.33	0.00	0.00	0.00	0.00	0.00	0.00	3.33	80.00	6	10	0	3	1	0					8.82	29.37
pp338*	11.85	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					11.85	0.00
pp815*	0.09	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.09	0.00
pp916*	3.41	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.41	0.00
pp917*	0.22	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.22	0.00
pp918*	7.00	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					7.00	0.00
	134.50																					**35.71**	**1,856.92**	**0.00**	**0.00**	**87.10**	**1,506.67**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1421	2009	69741	Training Area Infrastructure 19 D/K OSUT					8.11	225.30
O1422	2009	69741	Training Area Infrastructure 19 D/K OSUT	9.72	505.44				
O1515	2009	69741	Training Area Infrastructure 19 D/K OSUT					1.23	25.22
O1517	2009	69741	Training Area Infrastructure 19 D/K OSUT					0.59	1.96
pp338*	2009	69741	Training Area Infrastructure 19 D/K OSUT					2.77	0.00
pp815*	2009	69741	Training Area Infrastructure 19 D/K OSUT					0.09	0.00
pp918*	2009	69741	Training Area Infrastructure 19 D/K OSUT					3.33	0.00
			TOTAL REMOVALS	**9.72**	**505.44**	**0.00**	**0.00**	**16.12**	**252.48**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**25.99**	**1,351.48**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**70.98**	**1,254.19**
SUB-TOTAL	**96.97**	**2,605.67**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21PU = Longleaf Pine Plantation Underplanted
21U = Longleaf Pine Underplanted
31 = Loblolly Pine
31P = Loblolly Pine Plantation
31PU = Loblolly Pine Plantation Underplanted
31U = Loblolly Pine Underplanted

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-260. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O14-02, Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1309	1.93	82	31	6.12	2.00	6.06	5.00	8.84	13.00	25.47	14.17	3.82	15.00	18.00	35.00	1	21	55	3	1	3.46	PS					0.00	0.00
O1318	0.04	55	31	10.66	2.50	15.06	11.00	12.06	17.00	9.85	7.63	2.89	11.00	28.00	41.50	1	23	28	3	1	3.77	PS					0.00	0.00
O1408	1.15	49	31	18.29	5.29	15.36	11.18	17.95	28.82	5.95	1.61	0.33	1.76	40.00	47.06	1	20	6	3	1	3.76	PS					1.15	46.00
O1409	7.81	39	31	20.40	5.50	10.63	7.50	18.26	27.50	26.22	11.86	1.62	10.50	35.00	51.00	1	20	32	3	1	3.81	PS					7.81	273.35
O1413	22.70	93	31U	0.00	0.00	1.10	1.00	14.76	27.50	2.55	0.00	0.25	0.50	28.50	29.00	1	23	2	3	1	4.39	PS					22.70	646.95
O1420	0.76	49	31	38.74	10.50	38.39	28.50	11.58	15.00	1.59	0.00	0.00	0.00	43.50	54.00	2	51	0	3	1	4.06	PS					0.00	0.00
O1421	23.77	46	31	24.26	7.78	14.70	10.56	11.23	17.22	9.49	2.56	1.10	3.89	27.78	39.44	8	13	12	3	1	3.30	PS					23.77	660.33
O1422	35.69	84	21	33.94	10.50	11.39	9.00	25.59	43.00	1.11	3.80	0.69	3.50	52.00	66.00	2	28	11	3	1	4.52	PS			35.69	1,855.88		
O1422	0.02	84	21U	33.94	10.50	11.39	9.00	25.59	43.00	1.11	3.80	0.69	3.50	52.00	66.00	2	28	11	3	1	4.52	PS			0.02	1.04		
O1515	3.13	63	21P	6.36	2.50	10.34	8.50	8.02	12.00	7.05	4.65	2.87	8.50	20.50	31.50	1	14	29	3	1	3.47	PS					3.13	64.17
O1515	4.98	63	21PU	6.36	2.50	10.34	8.50	8.02	12.00	7.05	4.65	2.87	8.50	20.50	31.50	1	14	29	3	1	3.47	PS					4.98	102.09
O1517	1.13	26	31P	268.81	76.67	5.76	3.33	0.00	0.00	0.00	0.00	0.00	0.00	3.33	80.00	6	10	0	3	1	2.24	NH					1.13	3.76
O1517	8.82	26	31PU	268.81	76.67	5.76	3.33	0.00	0.00	0.00	0.00	0.00	0.00	3.33	80.00	6	10	0	3	1	2.24	NH					8.82	29.37
pp338*	11.85	11	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					11.85	0.00
pp815*	0.09	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.09	0.00
pp916*	3.41	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.41	0.00
pp917*	0.22	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.22	0.00
pp918*	7.00	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					7.00	0.00
	134.50																						**0.00**	**0.00**	**35.71**	**1,856.92**	**96.06**	**1,826.02**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1408	2009	69741	Training Area Infrastructure 19 D/K OSUT					0.81	32.40
O1409	2009	69741	Training Area Infrastructure 19 D/K OSUT					4.35	152.25
O1421	2009	69741	Training Area Infrastructure 19 D/K OSUT					8.11	225.30
O1422	2009	69741	Training Area Infrastructure 19 D/K OSUT			9.72	505.44		
O1515	2009	69741	Training Area Infrastructure 19 D/K OSUT					1.23	25.22
O1517	2009	69741	Training Area Infrastructure 19 D/K OSUT					0.59	1.96
pp338*	2009	69741	Training Area Infrastructure 19 D/K OSUT					2.77	0.00
pp815*	2009	69741	Training Area Infrastructure 19 D/K OSUT					0.09	0.00
pp918*	2009	69741	Training Area Infrastructure 19 D/K OSUT					3.33	0.00
			TOTAL REMOVALS	**0.00**	**0.00**	**9.72**	**505.44**	**21.28**	**437.13**

POST-PROJECT	**2009 SUB-TOTAL**		**non-contiguous habitat**		**2009 TOTAL**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**25.99**	**1,351.48**	**0.00**	**0.00**	**25.99**	**1,351.48**
Future Potential Habitat	**74.78**	**1,388.89**	**3.80**	**134.70**	**70.98**	**1,254.19**
TOTAL	**100.77**	**2,740.37**	**3.80**	**134.70**	**96.97**	**2,605.67**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
21PU = Longleaf Pine Plantation Underplanted
21U = Longleaf Pine Underplanted
31 = Loblolly Pine
31P = Loblolly Pine Plantation
31PU = Loblolly Pine Plantation Underplanted
31U = Loblolly Pine Underplanted

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Stand O1408 and a portion of O1409 are non-contiguous as a result of project impacts and can no longer be counted towards the available foraging habitat for the partition.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-261. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O14-03R**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0103	11.03	63	31	46.03	13.50	24.64	17.50	16.79	28.00	14.35	9.33	4.40	12.00	45.50	71.00	1	19	25	3	2	1	11.03	501.87				
M0106	11.06	86	13	31.40	9.50	15.56	10.50	9.79	15.50	30.94	14.12	5.15	18.50	26.00	54.00	1	11	43	3	2	0					0.00	0.00
M0202	6.73	55	31	13.65	5.00	40.83	30.00	8.33	11.25	0.00	1.57	1.17	2.50	41.25	48.75	1	29	5	3	2	1	6.73	277.61				
M0207	1.80	68	31	37.21	13.00	23.70	15.50	10.35	16.50	5.29	1.99	1.78	4.00	32.00	49.00	1	32	10	3	2	1	0.00	0.00				
O1418	4.53	94	21	10.78	3.50	10.89	8.50	18.45	27.00	10.30	2.30	0.28	2.00	35.50	41.00	2	31	8	3	1	1	0.00	0.00				
O1420	41.00	49	31	38.74	10.50	38.39	28.50	11.58	15.00	1.59	0.00	0.00	0.00	43.50	54.00	2	51	0	3	1	1	41.00	1,783.50				
O1421	27.35	46	31	24.26	7.78	14.70	10.56	11.23	17.22	9.49	2.56	1.10	3.89	27.78	39.44	8	13	12	3	1	0					27.35	759.78
O1427	10.39	65	31	45.32	12.00	28.41	21.00	25.58	36.50	4.73	1.97	0.30	1.50	57.50	71.00	2	26	4	3	1	1	10.39	597.43				
O1428	37.13	47	31	27.23	8.42	22.76	16.32	13.72	19.47	16.78	6.22	1.45	5.79	35.79	50.00	1	24	17	3	1	1	37.13	1,328.88				
O1431	7.56	78	21	62.86	16.50	18.56	12.50	9.28	14.00	7.33	1.12	2.78	5.50	26.50	48.50	6	15	12	3	1	0					7.56	200.34
O1432	28.32	63	31	18.83	5.50	11.50	8.00	20.25	33.50	24.94	5.21	2.21	7.00	41.50	54.00	2	23	19	3	1	1	28.32	1,175.28				
O1434	20.88	63	31	10.59	2.78	19.07	14.44	22.26	33.33	2.65	0.68	1.74	3.33	47.78	53.89	1	24	6	3	1	1	20.88	997.65				
pp149*	3.36	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.36	0.00
pp744*	1.49	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.49	0.00
pp752*	9.65	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					9.65	0.00
pp815*	16.02	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					16.02	0.00
pp816*	23.30	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					23.30	0.00
	261.60																					**155.48**	**6,662.22**	**0.00**	**0.00**	**88.73**	**960.12**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0202	2009	69741	Training Area Infrastructure 19D/K OSUT	0.05	2.06				
O1420	2009	69741	Training Area Infrastructure 19D/K OSUT	12.98	564.63				
O1421	2009	69741	Training Area Infrastructure 19D/K OSUT					11.33	314.75
O1427	2009	69741	Training Area Infrastructure 19D/K OSUT	3.78	217.35				
O1428	2009	69741	Training Area Infrastructure 19D/K OSUT	15.64	559.76				
O1432	2009	69741	Training Area Infrastructure 19D/K OSUT	4.78	198.37				
O1434	2009	69741	Training Area Infrastructure 19D/K OSUT	6.00	286.68				
pp149*	2009	69741	Training Area Infrastructure 19D/K OSUT					1.09	0.00
pp744*	2009	69741	Training Area Infrastructure 19D/K OSUT					1.23	0.00
pp752*	2009	69741	Training Area Infrastructure 19D/K OSUT					3.26	0.00
pp815*	2009	69741	Training Area Infrastructure 19D/K OSUT					5.97	0.00
pp816*	2009	69741	Training Area Infrastructure 19D/K OSUT					0.24	0.00
			2009 SUB-TOTAL	**43.23**	**1,828.85**	**0.00**	**0.00**	**23.12**	**314.75**
M0103	2010	65557	Repair Existing Training Area Roads	1.03	46.87				
M0202	2010	65557	Repair Existing Training Area Roads	0.58	23.93				
O1431	2010	65557	Repair Existing Training Area Roads					0.65	17.23
O1432	2010	65557	Repair Existing Training Area Roads	0.33	13.70				
O1434	2010	65557	Repair Existing Training Area Roads	1.26	60.20				
pp816*	2010	65557	Repair Existing Training Area Roads					0.23	0.00
			2010 SUB-TOTAL	**3.20**	**144.70**	**0.00**	**0.00**	**0.88**	**17.23**
			TOTAL REMOVALS	**46.43**	**1973.55**	**0.00**	**0.00**	**24.00**	**331.98**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**112.25**	**4,833.37**	**109.05**	**4,688.67**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**65.61**	**645.37**	**64.73**	**628.14**
TOTAL	**177.86**	**5,478.74**	**173.78**	**5,316.81**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-262. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O14-03R, Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0103	11.03	63	31	46.03	13.50	24.64	17.50	16.79	28.00	14.35	9.33	4.40	12.00	45.50	71.00	1	19	25	3	2	4.28	PS					11.03	501.87
M0106	11.06	86	13	31.40	9.50	15.56	10.50	9.79	15.50	30.94	14.12	5.15	18.50	26.00	54.00	1	11	43	3	2	3.82	PS					0.00	0.00
M0202	6.73	55	31	13.65	5.00	40.83	30.00	8.33	11.25	0.00	1.57	1.17	2.50	41.25	48.75	1	29	5	3	2	3.93	PS					6.73	277.61
M0207	1.80	68	31	37.21	13.00	23.70	15.50	10.35	16.50	5.29	1.99	1.78	4.00	32.00	49.00	1	32	10	3	2	4.04	PS					0.00	0.00
O1418	4.53	94	21	10.78	3.50	10.89	8.50	18.45	27.00	10.30	2.30	0.28	2.00	35.50	41.00	2	31	8	3	1	4.70	CS	0.00	0.00				
O1420	41.00	49	31	38.74	10.50	38.39	28.50	11.58	15.00	1.59	0.00	0.00	0.00	43.50	54.00	2	51	0	3	1	4.06	PS					41.00	1,783.50
O1421	27.35	46	31	24.26	7.78	14.70	10.56	11.23	17.22	9.49	2.56	1.10	3.89	27.78	39.44	8	13	12	3	1	3.30	PS					27.35	759.78
O1427	10.39	65	31	45.32	12.00	28.41	21.00	25.58	36.50	4.73	1.97	0.30	1.50	57.50	71.00	2	26	4	3	1	4.57	PS			10.39	597.43		
O1428	37.13	47	31	27.23	8.42	22.76	16.32	13.72	19.47	16.78	6.22	1.45	5.79	35.79	50.00	1	24	17	3	1	3.87	PS					37.13	1,328.88
O1431	7.56	78	21	62.86	16.50	18.56	12.50	9.28	14.00	7.33	1.12	2.78	5.50	26.50	48.50	6	15	12	3	1	3.42	PS					7.56	200.34
O1432	28.32	63	31	18.83	5.50	11.50	8.00	20.25	33.50	24.94	5.21	2.21	7.00	41.50	54.00	2	23	19	3	1	4.52	CS	28.32	1,175.28				
O1434	20.88	63	31	10.59	2.78	19.07	14.44	22.26	33.33	2.65	0.68	1.74	3.33	47.78	53.89	1	24	6	3	1	4.65	CS	20.88	997.65				
pp149*	3.36	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.36	0.00
pp744*	1.49	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.49	0.00
pp752*	9.65	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					9.65	0.00
pp815*	16.02	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					16.02	0.00
pp816*	23.30	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					23.30	0.00
	261.60																						**49.20**	**2,172.93**	**10.39**	**597.43**	**184.62**	**4,851.98**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0202	2009	69741	Training Area Infrastructure 19D/K OSUT					0.05	2.06
O1420	2009	69741	Training Area Infrastructure 19D/K OSUT					12.98	564.63
O1421	2009	69741	Training Area Infrastructure 19D/K OSUT					11.33	314.75
O1427	2009	69741	Training Area Infrastructure 19D/K OSUT			3.78	217.35		
O1428	2009	69741	Training Area Infrastructure 19D/K OSUT					15.64	559.76
O1432	2009	69741	Training Area Infrastructure 19D/K OSUT	4.78	198.37				
O1434	2009	69741	Training Area Infrastructure 19D/K OSUT	6.00	286.68				
pp149*	2009	69741	Training Area Infrastructure 19D/K OSUT					1.09	0.00
pp744*	2009	69741	Training Area Infrastructure 19D/K OSUT					1.23	0.00
pp752*	2009	69741	Training Area Infrastructure 19D/K OSUT					3.26	0.00
pp815*	2009	69741	Training Area Infrastructure 19D/K OSUT					5.97	0.00
pp816*	2009	69741	Training Area Infrastructure 19D/K OSUT					0.24	0.00
			2009 SUB-TOTAL	**10.78**	**485.05**	**3.78**	**217.35**	**51.79**	**1,441.20**
M0103	2010	65557	Repair Existing Training Area Roads					1.03	46.87
M0202	2010	65557	Repair Existing Training Area Roads					0.58	23.93
O1431	2010	65557	Repair Existing Training Area Roads					0.65	17.23
O1432	2010	65557	Repair Existing Training Area Roads	0.33	13.70				
O1434	2010	65557	Repair Existing Training Area Roads	1.26	60.20				
pp816*	2010	65557	Repair Existing Training Area Roads					0.23	0.00
			2010SUB-TOTAL	**1.59**	**73.90**	**0.00**	**0.00**	**2.49**	**88.03**
			TOTAL REMOVALS	**12.37**	**558.95**	**3.78**	**217.35**	**54.28**	**1,529.23**

POST-PROJECT

	2009 Acres	2009 BA	2010 Acres	2010 BA
Suitable Habitat	**38.42**	**1,687.88**	**36.83**	**1,613.98**
Potentially Suitable Habitat	**6.61**	**380.08**	**6.61**	**380.08**
Future Potential Habitat	**132.83**	**3,410.78**	**130.34**	**3,322.75**
TOTAL	**177.86**	**5,478.74**	**173.78**	**5,316.81**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-263. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O14-03R**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0103	11.03	63	31	46.03	13.50	24.64	17.50	16.79	28.00	14.35	9.33	4.40	12.00	45.50	71.00	1	19	25	3	2	1	11.03	501.87				
M0106	11.06	86	13	31.40	9.50	15.56	10.50	9.79	15.50	30.94	14.12	5.15	18.50	26.00	54.00	1	11	43	3	2	0					0.00	0.00
M0202	6.73	55	31	13.65	5.00	40.83	30.00	8.33	11.25	0.00	1.57	1.17	2.50	41.25	48.75	1	29	5	3	2	1	6.73	277.61				
M0207	1.80	68	31	37.21	13.00	23.70	15.50	10.35	16.50	5.29	1.99	1.78	4.00	32.00	49.00	1	32	10	3	2	1	0.00	0.00				
O1418	4.53	94	21	10.78	3.50	10.89	8.50	18.45	27.00	10.30	2.30	0.28	2.00	35.50	41.00	2	31	8	3	1	1	0.00	0.00				
O1420	41.00	49	31	38.74	10.50	38.39	28.50	11.58	15.00	1.59	0.00	0.00	0.00	43.50	54.00	2	51	0	3	1	1	41.00	1,783.50				
O1421	27.35	46	31	24.26	7.78	14.70	10.56	11.23	17.22	9.49	2.56	1.10	3.89	27.78	39.44	8	13	12	3	1	0					27.35	759.78
O1427	10.39	65	31	45.32	12.00	28.41	21.00	25.58	36.50	4.73	1.97	0.30	1.50	57.50	71.00	2	26	4	3	1	1	10.39	597.43				
O1428	37.13	47	31	27.23	8.42	22.76	16.32	13.72	19.47	16.78	6.22	1.45	5.79	35.79	50.00	1	24	17	3	1	1	37.13	1,328.88				
O1431	7.56	78	21	62.86	16.50	18.56	12.50	9.28	14.00	7.33	1.12	2.78	5.50	26.50	48.50	6	15	12	3	1	0					7.56	200.34
O1432	28.32	63	31	18.83	5.50	11.50	8.00	20.25	33.50	24.94	5.21	2.21	7.00	41.50	54.00	2	23	19	3	1	1	28.32	1,175.28				
O1434	20.88	63	31	10.59	2.78	19.07	14.44	22.26	33.33	2.65	0.68	1.74	3.33	47.78	53.89	1	24	6	3	1	1	20.88	997.65				
pp149*	3.36	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.36	0.00
pp744*	1.49	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.49	0.00
pp752*	9.65	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					9.65	0.00
pp815*	16.02	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					16.02	0.00
pp816*	23.30	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					23.30	0.00
	261.60																					**155.48**	**6,662.22**	**0.00**	**0.00**	**88.73**	**960.12**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0103	2010	65557	Repair Existing Training Area Roads	1.03	46.87				
M0202	2010	65557	Repair Existing Training Area Roads	0.58	23.93				
O1431	2010	65557	Repair Existing Training Area Roads					0.65	17.23
O1432	2010	65557	Repair Existing Training Area Roads	0.33	13.70				
O1434	2010	65557	Repair Existing Training Area Roads	1.26	60.20				
pp816*	2010	65557	Repair Existing Training Area Roads					0.23	0.00
			TOTAL REMOVALS	**3.20**	**144.70**	**0.00**	**0.00**	**0.88**	**17.23**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**152.28**	**6,517.52**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**87.85**	**942.89**
TOTAL	**240.13**	**7,460.41**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-264. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O14-03R, Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
M0103	11.03	63	31	46.03	13.50	24.64	17.50	16.79	28.00	14.35	9.33	4.40	12.00	45.50	71.00	1	19	25	3	2	4.28	PS					11.03	501.87
M0106	11.06	86	13	31.40	9.50	15.56	10.50	9.79	15.50	30.94	14.12	5.15	18.50	26.00	54.00	1	11	43	3	2	3.82	PS					0.00	0.00
M0202	6.73	55	31	13.65	5.00	40.83	30.00	8.33	11.25	0.00	1.57	1.17	2.50	41.25	48.75	1	29	5	3	2	3.93	PS					6.73	277.61
M0207	1.80	68	31	37.21	13.00	23.70	15.50	10.35	16.50	5.29	1.99	1.78	4.00	32.00	49.00	1	32	10	3	2	4.04	PS					0.00	0.00
O1418	4.53	94	21	10.78	3.50	10.89	8.50	18.45	27.00	10.30	2.30	0.28	2.00	35.50	41.00	2	31	8	3	1	4.70	CS	0.00	0.00				
O1420	41.00	49	31	38.74	10.50	38.39	28.50	11.58	15.00	1.59	0.00	0.00	0.00	43.50	54.00	2	51	0	3	1	4.06	PS					41.00	1,783.50
O1421	27.35	46	31	24.26	7.78	14.70	10.56	11.23	17.22	9.49	2.56	1.10	3.89	27.78	39.44	8	13	12	3	1	3.30	PS					27.35	759.78
O1427	10.39	65	31	45.32	12.00	28.41	21.00	25.58	36.50	4.73	1.97	0.30	1.50	57.50	71.00	2	26	4	3	1	4.57	PS			10.39	597.43		
O1428	37.13	47	31	27.23	8.42	22.76	16.32	13.72	19.47	16.78	6.22	1.45	5.79	35.79	50.00	1	24	17	3	1	3.87	PS					37.13	1,328.88
O1431	7.56	78	21	62.86	16.50	18.56	12.50	9.28	14.00	7.33	1.12	2.78	5.50	26.50	48.50	6	15	12	3	1	3.42	PS					7.56	200.34
O1432	28.32	63	31	18.83	5.50	11.50	8.00	20.25	33.50	24.94	5.21	2.21	7.00	41.50	54.00	2	23	19	3	1	4.52	CS	28.32	1,175.28				
O1434	20.88	63	31	10.59	2.78	19.07	14.44	22.26	33.33	2.65	0.68	1.74	3.33	47.78	53.89	1	24	6	3	1	4.65	CS	20.88	997.65				
pp149*	3.36	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.36	0.00
pp744*	1.49	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.49	0.00
pp752*	9.65	4	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					9.65	0.00
pp815*	16.02	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					16.02	0.00
pp816*	23.30	3	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					23.30	0.00
	261.60																						**49.20**	**2,172.93**	**10.39**	**597.43**	**184.62**	**4,851.98**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
M0103	2010	65557	Repair Existing Training Area Roads					1.03	46.87
M0202	2010	65557	Repair Existing Training Area Roads					0.58	23.93
O1431	2010	65557	Repair Existing Training Area Roads					0.65	17.23
O1432	2010	65557	Repair Existing Training Area Roads	0.33	13.70				
O1434	2010	65557	Repair Existing Training Area Roads	1.26	60.20				
pp816*	2010	65557	Repair Existing Training Area Roads					0.23	0.00
			TOTAL REMOVALS	**1.59**	**73.90**	**0.00**	**0.00**	**2.49**	**88.03**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**47.61**	**2,099.03**
Potentially Suitable Habitat	**10.39**	**597.43**
Future Potential Habitat	**182.13**	**4,763.95**
TOTAL	**240.13**	**7,460.41**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-265. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O15-01**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1127	22.54	24	31P	151.64	50.00	45.56	26.00	0.00	0.00	12.44	0.00	0.00	0.00	26.00	76.00	1	15	0	3	1	0					0.00	0.00
O1408	9.52	49	31	18.29	5.29	15.36	11.18	17.95	28.82	5.95	1.61	0.33	1.76	40.00	47.06	1	20	6	3	1	1	9.52	380.80				
O1409	23.69	39	31	20.40	5.50	10.63	7.50	18.26	27.50	26.22	11.86	1.62	10.50	35.00	51.00	1	20	32	3	1	1	23.69	829.15				
O1416	0.71	65	26	35.65	9.00	14.82	10.50	7.33	10.50	5.15	1.61	1.20	3.50	21.00	33.50	7	22	11	3	1	0					0.71	14.91
O1511	2.21	50	31	15.11	3.00	5.34	4.00	9.50	15.00	3.09	0.00	0.30	1.00	19.00	23.00	1	38	2	3	1	0					2.21	41.99
O1512	21.93	75	31	21.83	5.50	14.65	10.50	10.68	16.50	2.29	6.24	2.70	8.00	27.00	40.50	1	35	26	3	1	0					21.93	592.11
O1515	26.45	63	21P	6.36	2.50	10.34	8.50	8.02	12.00	7.05	4.65	2.87	8.50	20.50	31.50	1	14	29	3	1	0					26.45	542.23
O1515	10.79	63	21PU	6.36	2.50	10.34	8.50	8.02	12.00	7.05	4.65	2.87	8.50	20.50	31.50	1	14	29	3	1	0					10.79	221.20
O1517	0.17	26	31P	268.81	76.67	5.76	3.33	0.00	0.00	0.00	0.00	0.00	0.00	3.33	80.00	6	10	0	3	1	0					0.17	0.57
O1517	1.29	26	31PU	268.81	76.67	5.76	3.33	0.00	0.00	0.00	0.00	0.00	0.00	3.33	80.00	6	10	0	3	1	0					1.29	4.30
pp428*	7.69	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp916*	16.42	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					16.42	0.00
	143.41																					**33.21**	**1,209.95**	**0.00**	**0.00**	**79.97**	**1,417.31**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1409	2009	69741	Training Area Infrastructure 19 D/K OSUT	6.17	215.95				
O1511	2009	69741	Training Area Infrastructure 19 D/K OSUT					0.57	10.83
O1511	2009	69742	Northern Training Area Infrastructure					0.97	18.43
O1512	2009	69741	Training Area Infrastructure 19 D/K OSUT					3.15	85.05
O1512	2009	69742	Northern Training Area Infrastructure					0.10	2.70
O1515	2009	69741	Training Area Infrastructure 19 D/K OSUT					13.17	269.99
pp916*	2009	69741	Training Area Infrastructure 19 D/K OSUT					5.18	0.00
			2009 SUB-TOTAL	**6.17**	**215.95**	**0.00**	**0.00**	**23.14**	**387.00**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**27.04**	**994.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**56.83**	**1,030.31**
TOTAL	**83.87**	**2,024.31**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21P = Longleaf Pine Plantation
21PU = Longleaf Pine Plantation Underplanted
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31P = Loblolly Pine Plantation
31PU = Loblolly Pine Plantation Underplanted

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-266. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O15-01, Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1127	22.54	24	31P	151.64	50.00	45.56	26.00	0.00	0.00	12.44	0.00	0.00	0.00	26.00	76.00	1	15	0	3	1	2.52	NH					0.00	0.00
O1408	9.52	49	31	18.29	5.29	15.36	11.18	17.95	28.82	5.95	1.61	0.33	1.76	40.00	47.06	1	20	6	3	1	3.76	PS					9.52	380.80
O1409	23.69	39	31	20.40	5.50	10.63	7.50	18.26	27.50	26.22	11.86	1.62	10.50	35.00	51.00	1	20	32	3	1	3.81	PS					23.69	829.15
O1416	0.71	65	26	35.65	9.00	14.82	10.50	7.33	10.50	5.15	1.61	1.20	3.50	21.00	33.50	7	22	11	3	1	3.32	PS					0.71	14.91
O1511	2.21	50	31	15.11	3.00	5.34	4.00	9.50	15.00	3.09	0.00	0.30	1.00	19.00	23.00	1	38	2	3	1	3.96	PS					2.21	41.99
O1512	21.93	75	31	21.83	5.50	14.65	10.50	10.68	16.50	2.29	6.24	2.70	8.00	27.00	40.50	1	35	26	3	1	4.00	PS					21.93	592.11
O1515	26.45	63	21P	6.36	2.50	10.34	8.50	8.02	12.00	7.05	4.65	2.87	8.50	20.50	31.50	1	14	29	3	1	3.47	PS					26.45	542.23
O1515	10.79	63	21PU	6.36	2.50	10.34	8.50	8.02	12.00	7.05	4.65	2.87	8.50	20.50	31.50	1	14	29	3	1	3.47	PS					10.79	221.20
O1517	0.17	26	31P	268.81	76.67	5.76	3.33	0.00	0.00	0.00	0.00	0.00	0.00	3.33	80.00	6	10	0	3	1	2.24	NH					0.17	0.57
O1517	1.29	26	31PU	268.81	76.67	5.76	3.33	0.00	0.00	0.00	0.00	0.00	0.00	3.33	80.00	6	10	0	3	1	2.24	NH					1.29	4.30
pp428*	7.69	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp916*	16.42	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					16.42	0.00
	143.41																						**0.00**	**0.00**	**0.00**	**0.00**	**113.18**	**2,627.26**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1409	2009	69741	Training Area Infrastructure 19 D/K OSUT					6.17	215.95
O1511	2009	69741	Training Area Infrastructure 19 D/K OSUT					0.57	10.83
O1511	2009	69742	Northern Training Area Infrastructure					0.97	18.43
O1512	2009	69741	Training Area Infrastructure 19 D/K OSUT					3.15	85.05
O1512	2009	69742	Northern Training Area Infrastructure					0.10	2.70
O1515	2009	69741	Training Area Infrastructure 19 D/K OSUT					13.17	269.99
pp916*	2009	69741	Training Area Infrastructure 19 D/K OSUT					5.18	0.00
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**29.31**	**602.95**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**83.87**	**2,024.31**
TOTAL	**83.87**	**2,024.31**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
Forest Type:
21P = Longleaf Pine Plantation
21PU = Longleaf Pine Plantation Underplanted
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31P = Loblolly Pine Plantation
31PU = Loblolly Pine Plantation Underplanted

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-267. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O15-01**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1127	22.54	24	31P	151.64	50.00	45.56	26.00	0.00	0.00	12.44	0.00	0.00	0.00	26.00	76.00	1	15	0	3	1	0					0.00	0.00
O1408	9.52	49	31	18.29	5.29	15.36	11.18	17.95	28.82	5.95	1.61	0.33	1.76	40.00	47.06	1	20	6	3	1	1	9.52	380.80				
O1409	23.69	39	31	20.40	5.50	10.63	7.50	18.26	27.50	26.22	11.86	1.62	10.50	35.00	51.00	1	20	32	3	1	1	23.69	829.15				
O1416	0.71	65	26	35.65	9.00	14.82	10.50	7.33	10.50	5.15	1.61	1.20	3.50	21.00	33.50	7	22	11	3	1	0					0.71	14.91
O1511	2.21	50	31	15.11	3.00	5.34	4.00	9.50	15.00	3.09	0.00	0.30	1.00	19.00	23.00	1	38	2	3	1	0					2.21	41.99
O1512	21.93	75	31	21.83	5.50	14.65	10.50	10.68	16.50	2.29	6.24	2.70	8.00	27.00	40.50	1	35	26	3	1	0					21.93	592.11
O1515	26.45	63	21P	6.36	2.50	10.34	8.50	8.02	12.00	7.05	4.65	2.87	8.50	20.50	31.50	1	14	29	3	1	0					26.45	542.23
O1515	10.79	63	21PU	6.36	2.50	10.34	8.50	8.02	12.00	7.05	4.65	2.87	8.50	20.50	31.50	1	14	29	3	1	0					10.79	221.20
O1517	0.17	26	31P	268.81	76.67	5.76	3.33	0.00	0.00	0.00	0.00	0.00	0.00	3.33	80.00	6	10	0	3	1	0					0.17	0.57
O1517	1.29	26	31PU	268.81	76.67	5.76	3.33	0.00	0.00	0.00	0.00	0.00	0.00	3.33	80.00	6	10	0	3	1	0					1.29	4.30
pp428*	7.69	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp916*	16.42	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					16.42	0.00
	143.41																					**33.21**	**1,209.95**	**0.00**	**0.00**	**79.97**	**1,417.31**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1511	2009	69742	Northern Training Area Infrastructure					0.97	18.43
O1512	2009	69742	Northern Training Area Infrastructure					0.10	2.70
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**1.07**	**21.13**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**33.21**	**1,209.95**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**78.90**	**1,396.18**
TOTAL	**112.11**	**2,606.13**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21P = Longleaf Pine Plantation
21PU = Longleaf Pine Plantation Underplanted
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31P = Loblolly Pine Plantation
31PU = Loblolly Pine Plantation Underplanted

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-268. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O15-01, Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1127	22.54	24	31P	151.64	50.00	45.56	26.00	0.00	0.00	12.44	0.00	0.00	0.00	26.00	76.00	1	15	0	3	1	2.52	NH					0.00	0.00
O1408	9.52	49	31	18.29	5.29	15.36	11.18	17.95	28.82	5.95	1.61	0.33	1.76	40.00	47.06	1	20	6	3	1	3.76	PS					9.52	380.80
O1409	23.69	39	31	20.40	5.50	10.63	7.50	18.26	27.50	26.22	11.86	1.62	10.50	35.00	51.00	1	20	32	3	1	3.81	PS					23.69	829.15
O1416	0.71	65	26	35.65	9.00	14.82	10.50	7.33	10.50	5.15	1.61	1.20	3.50	21.00	33.50	7	22	11	3	1	3.32	PS					0.71	14.91
O1511	2.21	50	31	15.11	3.00	5.34	4.00	9.50	15.00	3.09	0.00	0.30	1.00	19.00	23.00	1	38	2	3	1	3.96	PS					2.21	41.99
O1512	21.93	75	31	21.83	5.50	14.65	10.50	10.68	16.50	2.29	6.24	2.70	8.00	27.00	40.50	1	35	26	3	1	4.00	PS					21.93	592.11
O1515	26.45	63	21P	6.36	2.50	10.34	8.50	8.02	12.00	7.05	4.65	2.87	8.50	20.50	31.50	1	14	29	3	1	3.47	PS					26.45	542.23
O1515	10.79	63	21PU	6.36	2.50	10.34	8.50	8.02	12.00	7.05	4.65	2.87	8.50	20.50	31.50	1	14	29	3	1	3.47	PS					10.79	221.20
O1517	0.17	26	31P	268.81	76.67	5.76	3.33	0.00	0.00	0.00	0.00	0.00	0.00	3.33	80.00	6	10	0	3	1	2.24	NH					0.17	0.57
O1517	1.29	26	31PU	268.81	76.67	5.76	3.33	0.00	0.00	0.00	0.00	0.00	0.00	3.33	80.00	6	10	0	3	1	2.24	NH					1.29	4.30
pp428*	7.69	12	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp916*	16.42	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					16.42	0.00
	143.41																						**0.00**	**0.00**	**0.00**	**0.00**	**113.18**	**2,627.26**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1511	2009	69742	Northern Training Area Infrastructure					0.97	18.43
O1512	2009	69742	Northern Training Area Infrastructure					0.10	2.70
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**1.07**	**21.13**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**112.11**	**2,606.13**
TOTAL	**112.11**	**2,606.13**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21P = Longleaf Pine Plantation
21PU = Longleaf Pine Plantation Underplanted
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
31P = Loblolly Pine Plantation
31PU = Loblolly Pine Plantation Underplanted

*Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-269. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O15-02**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1402	14.06	81	21	3.60	1.00	6.57	5.00	21.15	31.00	11.40	3.05	3.10	7.00	36.00	44.00	1	20	18	3	1	1	14.06	506.16				
O1404	0.08	19	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
O1407	16.77	64	31	40.81	12.50	9.94	7.00	12.07	20.50	25.79	2.21	2.86	6.00	27.50	46.00	1	20	19	3	1	0					16.77	461.18
O1416	12.97	65	26	35.65	9.00	14.82	10.50	7.33	10.50	5.15	1.61	1.20	3.50	21.00	33.50	7	22	11	3	1	0					12.97	272.37
O1505	0.55	80	31	4.21	1.00	16.16	12.50	15.84	25.50	10.31	6.73	2.85	9.50	38.00	48.50	1	29	23	3	1	1	0.55	20.90				
O1508	3.67	64	31	35.13	9.00	16.67	12.50	16.77	23.00	2.55	0.00	0.65	1.00	35.50	45.50	1	30	2	3	1	1	3.67	130.29				
O1510	53.49	75	21	17.79	5.00	9.59	7.00	16.57	28.50	1.63	4.66	4.07	9.00	35.50	49.50	1	15	25	3	1	1	53.49	1,898.90				
O1511	7.63	50	31	15.11	3.00	5.34	4.00	9.50	15.00	3.09	0.00	0.30	1.00	19.00	23.00	1	38	2	3	1	0					7.63	144.97
O1512	34.51	75	31	21.83	5.50	14.65	10.50	10.68	16.50	2.29	6.24	2.70	8.00	27.00	40.50	1	35	26	3	1	0					34.51	931.77
pp964*	0.32	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
	144.05																					**71.77**	**2,556.25**	**0.00**	**0.00**	**71.88**	**1,810.29**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1505	2009	69741	Training Area Infrastructure 19D/K OSUT	0.47	17.86				
O1508	2009	69741	Training Area Infrastructure 19D/K OSUT	1.38	48.99				
O1510	2009	69741	Training Area Infrastructure 19D/K OSUT	3.38	119.99				
O1511	2009	69741	Training Area Infrastructure 19D/K OSUT					3.00	57.00
O1512	2009	69741	Training Area Infrastructure 19D/K OSUT					1.61	43.47
			TOTAL REMOVALS	**5.23**	**186.84**	**0.00**	**0.00**	**4.61**	**100.47**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**66.54**	**2,369.41**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**67.27**	**1,709.82**
TOTAL	**133.81**	**4,079.23**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
NM = not managed

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-270. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O15-02, Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O1402	14.06	81	21	3.60	1.00	6.57	5.00	21.15	31.00	11.40	3.05	3.10	7.00	36.00	44.00	1	20	18	3	1	4.28	PS					14.06	506.16
O1404	0.08	19	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	1.75	NH					0.00	0.00
O1407	16.77	64	31	40.81	12.50	9.94	7.00	12.07	20.50	25.79	2.21	2.86	6.00	27.50	46.00	1	20	19	3	1	3.75	PS					16.77	461.18
O1416	12.97	65	26	35.65	9.00	14.82	10.50	7.33	10.50	5.15	1.61	1.20	3.50	21.00	33.50	7	22	11	3	1	3.06	PS					12.97	272.37
O1505	0.55	80	31	4.21	1.00	16.16	12.50	15.84	25.50	10.31	6.73	2.85	9.50	38.00	48.50	1	29	23	3	1	4.13	PS					0.55	20.90
O1508	3.67	64	31	35.13	9.00	16.67	12.50	16.77	23.00	2.55	0.00	0.65	1.00	35.50	45.50	1	30	2	3	1	4.09	PS					3.67	130.29
O1510	53.49	75	21	17.79	5.00	9.59	7.00	16.57	28.50	1.63	4.66	4.07	9.00	35.50	49.50	1	15	25	3	1	4.03	PS					53.49	1,898.90
O1511	7.63	50	31	15.11	3.00	5.34	4.00	9.50	15.00	3.09	0.00	0.30	1.00	19.00	23.00	1	38	2	3	1	3.51	PS					7.63	144.97
O1512	34.51	75	31	21.83	5.50	14.65	10.50	10.68	16.50	2.29	6.24	2.70	8.00	27.00	40.50	1	35	26	3	1	3.87	PS					34.51	931.77
pp964*	0.32	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.60	NH					0.00	0.00
	144.05																						**0.00**	**0.00**	**0.00**	**0.00**	**143.65**	**4,366.54**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O1505	2009	69741	Training Area Infrastructure 19D/K OSUT					0.47	17.86
O1508	2009	69741	Training Area Infrastructure 19D/K OSUT					1.38	48.99
O1510	2009	69741	Training Area Infrastructure 19D/K OSUT					3.38	119.99
O1511	2009	69741	Training Area Infrastructure 19D/K OSUT					3.00	57.00
O1512	2009	69741	Training Area Infrastructure 19D/K OSUT					1.61	43.47
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**9.84**	**287.31**

POST-PROJECT	**2010**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**133.81**	**4,079.23**
TOTAL	**133.81**	**4,079.23**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
NM = not managed

*** Note:** No pine data was taken for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-271. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O15-03, Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0114	0.14	42	22P	77.71	26.00	44.34	28.00	3.82	5.00	1.43	1.59	1.44	2.50	33.00	61.50	2	25	6	3	1	0			0.14	4.62		
O0116	9.00	61	31	6.68	2.00	9.18	7.00	15.59	24.50	4.22	0.00	0.28	1.00	31.50	34.50	1	37	1	3	1	1	9.00	283.50				
O0123	1.09	86	31	7.65	2.50	12.49	9.00	21.91	38.00	4.56	2.44	1.17	3.00	47.00	52.50	1	21	9	3	1	1	1.09	51.23				
O1504	6.74	80	31	11.64	2.50	5.12	4.00	13.04	21.50	0.00	2.14	1.88	5.00	25.50	33.00	1	33	18	3	1	0					6.74	171.87
O1505	46.60	80	31	4.21	1.00	16.16	12.50	15.84	25.50	10.31	6.73	2.85	9.50	38.00	48.50	1	29	23	3	1	1	46.60	1,770.80				
O1506	3.37	85	31	14.39	4.21	14.27	10.53	14.00	25.79	29.01	10.99	6.75	17.89	36.32	58.42	2	4	39	3	1	1	3.37	122.40				
O1510	7.85	75	21	17.79	5.00	9.59	7.00	16.57	28.50	1.63	4.66	4.07	9.00	35.50	49.50	1	15	25	3	1	1	7.85	278.68				
pp632*	3.88	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp961*	10.57	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					10.57	0.00
	89.24																					**67.91**	**2,506.61**	**0.14**	**4.62**	**17.31**	**171.87**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0116	2009	69742	Northern Training Area Infrastructure	1.69	53.24				
O0123	2009	69742	Northern Training Area Infrastructure	0.81	38.07				
O1504	2009	69742	Northern Training Area Infrastructure					1.77	45.14
O1505	2009	69741	Training Area Infrastructure 19D/K OSUT	1.63	61.94				
O1506	2009	69742	Northern Training Area Infrastructure	0.33	11.99				
O1506	2009	69741	Training Area Infrastructure 19D/K OSUT	1.05	38.14				
O1510	2009	69741	Training Area Infrastructure 19D/K OSUT	2.11	74.91				
			TOTAL REMOVALS	**7.62**	**278.29**	**0.00**	**0.00**	**1.77**	**45.14**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**60.29**	**2,228.32**
Potentially Suitable Habitat	**0.14**	**4.62**
Future Potential Habitat	**15.54**	**126.73**
TOTAL	**75.97**	**2,359.67**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-272. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O15-03, Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0114	0.14	42	22P	77.71	26.00	44.34	28.00	3.82	5.00	1.43	1.59	1.44	2.50	33.00	61.50	2	25	6	3	1	3.17	PS					0.14	4.62
O0116	9.00	61	31	6.68	2.00	9.18	7.00	15.59	24.50	4.22	0.00	0.28	1.00	31.50	34.50	1	37	1	3	1	4.49	PS					9.00	283.50
O0123	1.09	86	31	7.65	2.50	12.49	9.00	21.91	38.00	4.56	2.44	1.17	3.00	47.00	52.50	1	21	9	3	1	4.65	CS	1.09	51.23				
O1504	6.74	80	31	11.64	2.50	5.12	4.00	13.04	21.50	0.00	2.14	1.88	5.00	25.50	33.00	1	33	18	3	1	4.32	PS					6.74	171.87
O1505	46.60	80	31	4.21	1.00	16.16	12.50	15.84	25.50	10.31	6.73	2.85	9.50	38.00	48.50	1	29	23	3	1	4.25	PS					46.60	1,770.80
O1506	3.37	85	31	14.39	4.21	14.27	10.53	14.00	25.79	29.01	10.99	6.75	17.89	36.32	58.42	2	4	39	3	1	3.99	PS					3.37	122.40
O1510	7.85	75	21	17.79	5.00	9.59	7.00	16.57	28.50	1.63	4.66	4.07	9.00	35.50	49.50	1	15	25	3	1	4.15	PS					7.85	278.68
pp632*	3.88	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp961*	10.57	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					10.57	0.00
	89.24																						**1.09**	**51.23**	**0.00**	**0.00**	**84.27**	**2,631.87**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0116	2009	69742	Northern Training Area Infrastructure					1.69	53.24
O0123	2009	69742	Northern Training Area Infrastructure	0.81	38.07				
O1504	2009	69742	Northern Training Area Infrastructure					1.77	45.14
O1505	2009	69741	Training Area Infrastructure 19D/K OSUT					1.63	61.94
O1506	2009	69742	Northern Training Area Infrastructure					0.33	11.99
O1506	2009	69741	Training Area Infrastructure 19D/K OSUT					1.05	38.14
O1510	2009	69741	Training Area Infrastructure 19D/K OSUT					2.11	74.91
			TOTAL REMOVALS	**0.81**	**38.07**	**0.00**	**0.00**	**8.58**	**285.36**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.28**	**13.16**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**75.69**	**2,346.51**
TOTAL	**75.97**	**2,359.67**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.
Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-273. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O15-03**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0114	0.14	42	22P	77.71	26.00	44.34	28.00	3.82	5.00	1.43	1.59	1.44	2.50	33.00	61.50	2	25	6	3	1	0			0.14	4.62		
O0116	9.00	61	31	6.68	2.00	9.18	7.00	15.59	24.50	4.22	0.00	0.28	1.00	31.50	34.50	1	37	1	3	1	1	9.00	283.50				
O0123	1.09	86	31	7.65	2.50	12.49	9.00	21.91	38.00	4.56	2.44	1.17	3.00	47.00	52.50	1	21	9	3	1	1	1.09	51.23				
O1504	6.74	80	31	11.64	2.50	5.12	4.00	13.04	21.50	0.00	2.14	1.88	5.00	25.50	33.00	1	33	18	3	1	0					6.74	171.87
O1505	46.60	80	31	4.21	1.00	16.16	12.50	15.84	25.50	10.31	6.73	2.85	9.50	38.00	48.50	1	29	23	3	1	1	46.60	1,770.80				
O1506	3.37	85	31	14.39	4.21	14.27	10.53	14.00	25.79	29.01	10.99	6.75	17.89	36.32	58.42	2	4	39	3	1	1	3.37	122.40				
O1510	7.85	75	21	17.79	5.00	9.59	7.00	16.57	28.50	1.63	4.66	4.07	9.00	35.50	49.50	1	15	25	3	1	1	7.85	278.68				
pp632*	3.88	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp961*	10.57	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					10.57	0.00
	89.24																					**67.91**	**2,506.61**	**0.14**	**4.62**	**17.31**	**171.87**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0116	2009	69742	Northern Training Area Infrastructure	1.69	53.24				
O0123	2009	69742	Northern Training Area Infrastructure	0.81	38.07				
O1504	2009	69742	Northern Training Area Infrastructure					1.77	45.14
O1506	2009	69742	Northern Training Area Infrastructure	0.33	11.99				
			TOTAL REMOVALS	**2.83**	**103.30**	**0.00**	**0.00**	**1.77**	**45.14**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**65.08**	**2,403.31**
Potentially Suitable Habitat	**0.14**	**4.62**
Future Potential Habitat	**15.54**	**126.73**
TOTAL	**80.76**	**2,534.66**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-274. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **O15-03, Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
O0114	0.14	42	22P	77.71	26.00	44.34	28.00	3.82	5.00	1.43	1.59	1.44	2.50	33.00	61.50	2	25	6	3	1	3.17	PS					0.14	4.62
O0116	9.00	61	31	6.68	2.00	9.18	7.00	15.59	24.50	4.22	0.00	0.28	1.00	31.50	34.50	1	37	1	3	1	4.49	PS					9.00	283.50
O0123	1.09	86	31	7.65	2.50	12.49	9.00	21.91	38.00	4.56	2.44	1.17	3.00	47.00	52.50	1	21	9	3	1	4.65	CS	1.09	51.23				
O1504	6.74	80	31	11.64	2.50	5.12	4.00	13.04	21.50	0.00	2.14	1.88	5.00	25.50	33.00	1	33	18	3	1	4.32	PS					6.74	171.87
O1505	46.60	80	31	4.21	1.00	16.16	12.50	15.84	25.50	10.31	6.73	2.85	9.50	38.00	48.50	1	29	23	3	1	4.25	PS					46.60	1,770.80
O1506	3.37	85	31	14.39	4.21	14.27	10.53	14.00	25.79	29.01	10.99	6.75	17.89	36.32	58.42	2	4	39	3	1	3.99	PS					3.37	122.40
O1510	7.85	75	21	17.79	5.00	9.59	7.00	16.57	28.50	1.63	4.66	4.07	9.00	35.50	49.50	1	15	25	3	1	4.15	PS					7.85	278.68
pp632*	3.88	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.00	0.00
pp961*	10.57	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					10.57	0.00
	89.24																						**1.09**	**51.23**	**0.00**	**0.00**	**84.27**	**2,631.87**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
O0116	2009	69742	Northern Training Area Infrastructure					1.69	53.24
O0123	2009	69742	Northern Training Area Infrastructure	0.81	38.07				
O1504	2009	69742	Northern Training Area Infrastructure					1.77	45.14
O1506	2009	69742	Northern Training Area Infrastructure					0.33	11.99
			TOTAL REMOVALS	**0.81**	**38.07**	**0.00**	**0.00**	**3.79**	**110.37**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.28**	**13.16**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**80.48**	**2,521.50**
TOTAL	**80.76**	**2,534.66**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
22P = Slash Pine Plantation
31 = Loblolly Pine

* Note: No pine data was collected for pine plantation stands less than 30 years old.
Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-275. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **Q02-02**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0911	14.89	92	31	13.28	2.50	3.39	3.00	15.95	27.00	4.96	3.01	1.99	5.50	30.00	38.00	6	33	21	3	1	0			14.89	446.70		
pp249*	2.11	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.11	0.00
Q0120	3.32	55	42**	26.46	8.57	7.99	5.71	9.55	14.29	39.24	23.76	17.88	44.29	20.00	72.86	1	17	70	3	1	0					0.00	0.00
Q0122	12.73	48	31	14.55	6.00	40.24	27.50	18.09	23.00	12.06	1.42	0.94	2.00	50.50	58.50	6	32	4	3	1	0			12.73	642.87		
Q0122	1.98	48	31U	14.55	6.00	40.24	27.50	18.09	23.00	12.06	1.42	0.94	2.00	50.50	58.50	6	32	4	3	1	0			1.98	99.99		
Q0125	11.61	55	10	10.14	4.00	20.44	15.50	15.70	23.00	21.00	5.43	4.48	10.50	38.50	53.00	3	20	22	3	1	1	11.61	446.99				
Q0228	51.27	108	31	11.39	3.50	6.99	4.50	15.54	33.00	17.26	3.71	0.00	2.50	37.50	43.50	2	16	14	3	1	1	51.27	1,922.63				
Q0229	4.42	50	13	17.90	4.00	0.00	0.00	9.15	24.00	15.20	0.00	6.06	12.00	24.00	40.00	7	28	40	3	1	0					4.42	106.08
Q0243	42.93	60	31	25.66	5.50	2.48	1.50	15.02	30.50	7.72	4.44	0.88	4.50	32.00	42.00	8	32	23	3	1	0			42.93	1,373.76		
Q0244	18.52	50	25	110.58	27.50	24.26	18.50	20.92	29.50	28.82	9.47	0.97	7.00	48.00	82.50	5	28	19	3	1	0			18.52	888.96		
Q0251	0.26	56	31	41.14	11.50	31.18	21.50	5.80	9.50	16.63	0.72	0.75	1.50	31.00	44.00	2	31	4	3	1	1	0.00	0.00				
	164.04																					**62.88**	**2,369.62**	**91.05**	**3,452.28**	**6.53**	**106.08**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0911	2009	69358	Range Access Road - Good Hope			1.28	38.40		
Q0125	2009	69358	Range Access Road - Good Hope	1.11	42.74				
Q0243	2009	69358	Range Access Road - Good Hope			1.27	40.64		
			TOTAL REMOVALS	**1.11**	**42.74**	**2.55**	**79.04**	**0.00**	**0.00**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**61.77**	**2,326.88**
Potentially Suitable Habitat	**88.50**	**3,373.24**
Future Potential Habitat	**6.53**	**106.08**
TOTAL	**156.80**	**5,806.20**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21P = Longleaf Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine
31U = Loblolly Pine Underplanted
42** = Upland Hardwood-Yellow Pine (not managed)

*** Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-276. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **Q02-02, Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0911	14.89	92	31	13.28	2.50	3.39	3.00	15.95	27.00	4.96	3.01	1.99	5.50	30.00	38.00	6	33	21	3	1	4.14	PS					14.89	446.70
pp249*	2.11	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.11	0.00
Q0120	3.32	55	42**	26.46	8.57	7.99	5.71	9.55	14.29	39.24	23.76	17.88	44.29	20.00	72.86	1	17	70	3	1	3.34	PS					0.00	0.00
Q0122	12.73	48	31	14.55	6.00	40.24	27.50	18.09	23.00	12.06	1.42	0.94	2.00	50.50	58.50	6	32	4	3	1	4.24	PS					12.73	642.87
Q0122	1.98	48	31U	14.55	6.00	40.24	27.50	18.09	23.00	12.06	1.42	0.94	2.00	50.50	58.50	6	32	4	3	1	4.24	PS					1.98	99.99
Q0125	11.61	55	10	10.14	4.00	20.44	15.50	15.70	23.00	21.00	5.43	4.48	10.50	38.50	53.00	3	20	22	3	1	4.08	PS					11.61	446.99
Q0228	51.27	108	31	11.39	3.50	6.99	4.50	15.54	33.00	17.26	3.71	0.00	2.50	37.50	43.50	2	16	14	3	1	4.28	PS					51.27	1,922.63
Q0229	4.42	50	13	17.90	4.00	0.00	0.00	9.15	24.00	15.20	0.00	6.06	12.00	24.00	40.00	7	28	40	3	1	3.46	PS					4.42	106.08
Q0243	42.93	60	31	25.66	5.50	2.48	1.50	15.02	30.50	7.72	4.44	0.88	4.50	32.00	42.00	8	32	23	3	1	3.95	PS					42.93	1,373.76
Q0244	18.52	50	25	110.58	27.50	24.26	18.50	20.92	29.50	28.82	9.47	0.97	7.00	48.00	82.50	5	28	19	3	1	4.03	PS					18.52	888.96
Q0251	0.26	56	31	41.14	11.50	31.18	21.50	5.80	9.50	16.63	0.72	0.75	1.50	31.00	44.00	2	31	4	3	1	3.56	PS					0.00	0.00
	164.04																						**0.00**	**0.00**	**0.00**	**0.00**	**160.46**	**5,927.98**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0911	2009	69358	Range Access Road - Good Hope					1.28	38.40
Q0125	2009	69358	Range Access Road - Good Hope					1.11	42.74
Q0243	2009	69358	Range Access Road - Good Hope					1.27	40.64
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**3.66**	**121.78**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**156.80**	**5,806.20**
TOTAL	**156.80**	**5,806.20**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21P = Longleaf Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine
31U = Loblolly Pine Underplanted
42** = Upland Hardwood-Yellow Pine (not managed)

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-277. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **Q02-02**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0911	14.89	92	31	13.28	2.50	3.39	3.00	15.95	27.00	4.96	3.01	1.99	5.50	30.00	38.00	6	33	21	3	1	0			14.89	446.70		
pp249*	2.11	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.11	0.00
Q0120	3.32	55	42**	26.46	8.57	7.99	5.71	9.55	14.29	39.24	23.76	17.88	44.29	20.00	72.86	1	17	70	3	1	0					0.00	0.00
Q0122	12.73	48	31	14.55	6.00	40.24	27.50	18.09	23.00	12.06	1.42	0.94	2.00	50.50	58.50	6	32	4	3	1	0			12.73	642.87		
Q0122	1.98	48	31U	14.55	6.00	40.24	27.50	18.09	23.00	12.06	1.42	0.94	2.00	50.50	58.50	6	32	4	3	1	0			1.98	99.99		
Q0125	11.61	55	10	10.14	4.00	20.44	15.50	15.70	23.00	21.00	5.43	4.48	10.50	38.50	53.00	3	20	22	3	1	1	11.61	446.99				
Q0228	51.27	108	31	11.39	3.50	6.99	4.50	15.54	33.00	17.26	3.71	0.00	2.50	37.50	43.50	2	16	14	3	1	1	51.27	1,922.63				
Q0229	4.42	50	13	17.90	4.00	0.00	0.00	9.15	24.00	15.20	0.00	6.06	12.00	24.00	40.00	7	28	40	3	1	0					4.42	106.08
Q0243	42.93	60	31	25.66	5.50	2.48	1.50	15.02	30.50	7.72	4.44	0.88	4.50	32.00	42.00	8	32	23	3	1	0			42.93	1,373.76		
Q0244	18.52	50	25	110.58	27.50	24.26	18.50	20.92	29.50	28.82	9.47	0.97	7.00	48.00	82.50	5	28	19	3	1	0			18.52	888.96		
Q0251	0.26	56	31	41.14	11.50	31.18	21.50	5.80	9.50	16.63	0.72	0.75	1.50	31.00	44.00	2	31	4	3	1	1	0.00	0.00				
	164.04																					**62.88**	**2,369.62**	**91.05**	**3,452.28**	**6.53**	**106.08**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0911	2009	69358	Range Access Road - Good Hope			1.28	38.40		
pp249*	2009	69741	Alternate 19D/K OSUT Training Area-Upgrade and Construct Tank Trails					1.81	0.00
Q0122	2009	69741	Alternate 19D/K OSUT Training Area-Construct Tank Trails			6.45	325.73		
Q0125	2009	69741	Alternate 19D/K OSUT Training Area-Construct Tank Trails	4.17	160.55				
Q0125	2009	69358	Range Access Road - Good Hope	1.11	42.74				
Q0228	2009	69741	Alternate 19D/K OSUT Training Area-Upgrade and Construct Tank Trails	12.00	450.00				
Q0243	2009	69741	Alternate 19D/K OSUT Training Area-Upgrade and Construct Tank Trails			19.68	629.76		
Q0243	2009	69358	Range Access Road - Good Hope			1.27	40.64		
Q0244	2009	69741	Alternate 19D/K OSUT Training Area-Construct Tank Trails			4.24	203.52		
			TOTAL REMOVALS	**17.28**	**653.29**	**32.92**	**1,238.05**	**1.81**	**0.00**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**45.60**	**1,716.33**
Potentially Suitable Habitat	**58.13**	**2,214.23**
Future Potential Habitat	**4.72**	**106.08**
TOTAL	**108.45**	**4,036.64**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21P = Longleaf Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine
31U = Loblolly Pine Underplanted
42** = Upland Hardwood-Yellow Pine (not managed)

*** Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-278. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **Q02-02, Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
A0911	14.89	92	31	13.28	2.50	3.39	3.00	15.95	27.00	4.96	3.01	1.99	5.50	30.00	38.00	6	33	21	3	1	4.14	PS					14.89	446.70
pp249*	2.11	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.11	0.00
Q0120	3.32	55	42**	26.46	8.57	7.99	5.71	9.55	14.29	39.24	23.76	17.88	44.29	20.00	72.86	1	17	70	3	1	3.34	PS					0.00	0.00
Q0122	12.73	48	31	14.55	6.00	40.24	27.50	18.09	23.00	12.06	1.42	0.94	2.00	50.50	58.50	6	32	4	3	1	4.24	PS					12.73	642.87
Q0122	1.98	48	31U	14.55	6.00	40.24	27.50	18.09	23.00	12.06	1.42	0.94	2.00	50.50	58.50	6	32	4	3	1	4.24	PS					1.98	99.99
Q0125	11.61	55	10	10.14	4.00	20.44	15.50	15.70	23.00	21.00	5.43	4.48	10.50	38.50	53.00	3	20	22	3	1	4.08	PS					11.61	446.99
Q0228	51.27	108	31	11.39	3.50	6.99	4.50	15.54	33.00	17.26	3.71	0.00	2.50	37.50	43.50	2	16	14	3	1	4.28	PS					51.27	1,922.63
Q0229	4.42	50	13	17.90	4.00	0.00	0.00	9.15	24.00	15.20	0.00	6.06	12.00	24.00	40.00	7	28	40	3	1	3.46	PS					4.42	106.08
Q0243	42.93	60	31	25.66	5.50	2.48	1.50	15.02	30.50	7.72	4.44	0.88	4.50	32.00	42.00	8	32	23	3	1	3.95	PS					42.93	1,373.76
Q0244	18.52	50	25	110.58	27.50	24.26	18.50	20.92	29.50	28.82	9.47	0.97	7.00	48.00	82.50	5	28	19	3	1	4.03	PS					18.52	888.96
Q0251	0.26	56	31	41.14	11.50	31.18	21.50	5.80	9.50	16.63	0.72	0.75	1.50	31.00	44.00	2	31	4	3	1	3.56	PS					0.00	0.00
	164.04																						**0.00**	**0.00**	**0.00**	**0.00**	**160.46**	**5,927.98**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
A0911	2009	69358	Range Access Road - Good Hope					1.28	38.40
pp249*	2009	69741	Alternate 19D/K OSUT Training Area-Upgrade and Construct Tank Trails					1.81	0.00
Q0122	2009	69741	Alternate 19D/K OSUT Training Area-Construct Tank Trails					6.45	325.73
Q0125	2009	69741	Alternate 19D/K OSUT Training Area-Construct Tank Trails					4.17	160.55
Q0125	2009	69358	Range Access Road - Good Hope					1.11	42.74
Q0228	2009	69741	Alternate 19D/K OSUT Training Area-Upgrade and Construct Tank Trails					12.00	450.00
Q0243	2009	69741	Alternate 19D/K OSUT Training Area-Upgrade and Construct Tank Trails					19.68	629.76
Q0243	2009	69358	Range Access Road - Good Hope					1.27	40.64
Q0244	2009	69741	Alternate 19D/K OSUT Training Area-Construct Tank Trails					4.24	203.52
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**52.01**	**1,891.34**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**108.45**	**4,036.64**
TOTAL	**108.45**	**4,036.64**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21P = Longleaf Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine
31U = Loblolly Pine Underplanted
42** = Upland Hardwood-Yellow Pine (not managed)

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-279. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **Q02-03**, **Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
EE0235	4.44	48	31	14.17	4.50	32.15	24.00	20.70	31.50	3.79	0.00	1.17	2.00	55.50	62.00	1	34	2	3	1	1	4.44	246.42				
pp1023*	1.69	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.69	0.00
pp248*	2.74	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.74	0.00
pp27*	0.65	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.00	0.00
pp30*	0.41	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.41	0.00
pp32*	9.43	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					9.43	0.00
Q0113	25.58	48	31	14.25	5.50	24.68	18.50	25.09	35.00	17.31	1.47	1.41	2.50	53.50	61.50	6	50	5	3	1	0			25.58	1,368.53		
Q0113	12.30	48	31U	14.25	5.50	24.68	18.50	25.09	35.00	17.31	1.47	1.41	2.50	53.50	61.50	6	50	5	3	1	0			12.30	658.05		
Q0116	7.19	48	31	15.53	6.25	43.00	31.25	21.43	31.25	7.05	1.34	0.00	1.25	62.50	70.00	2	21	2	3	1	1	7.19	449.38				
Q0120	1.27	55	42**	26.46	8.57	7.99	5.71	9.55	14.29	39.24	23.76	17.88	44.29	20.00	72.86	1	17	70	3	1	0					0.00	0.00
Q0122	30.61	48	31	14.55	6.00	40.24	27.50	18.09	23.00	12.06	1.42	0.94	2.00	50.50	58.50	6	32	4	3	1	0			30.61	1,545.81		
Q0122	10.58	48	31U	14.55	6.00	40.24	27.50	18.09	23.00	12.06	1.42	0.94	2.00	50.50	58.50	6	32	4	3	1	0			10.58	534.29		
Q0206	32.44	61	31	39.68	13.00	31.11	21.50	13.97	18.50	2.46	0.00	0.54	1.00	40.00	54.00	2	36	1	3	1	1	32.44	1,297.60				
Q0211	16.36	109	42**	8.52	2.00	11.06	9.00	18.50	33.50	19.22	11.57	5.00	16.00	42.50	60.50	5	31	36	3	1	0					0.00	0.00
Q0211	0.06	109	42U**	8.52	2.00	11.06	9.00	18.50	33.50	19.22	11.57	5.00	16.00	42.50	60.50	5	31	36	3	1	0					0.00	0.00
Q0221	60.92	124	25	32.84	9.50	31.25	21.50	11.86	16.00	0.00	3.04	0.25	2.50	37.50	49.50	4	34	7	3	1	0			60.92	2,284.50		
Q0222	4.07	117	13	0.00	0.00	15.30	10.00	9.50	15.00	21.30	0.00	1.30	2.50	25.00	27.50	5	33	5	3	1	0					4.07	101.75
Q0228	36.94	108	31	11.39	3.50	6.99	4.50	15.54	33.00	17.26	3.71	0.00	2.50	37.50	43.50	2	16	14	3	1	1	36.94	1,385.25				
Q0229	0.21	50	13	17.90	4.00	0.00	0.00	9.15	24.00	15.20	0.00	6.06	12.00	24.00	40.00	7	28	40	3	1	0					0.21	5.04
Q0231	1.49	124	32	23.46	5.71	9.24	7.14	8.98	12.86	19.98	1.98	4.21	7.14	20.00	32.86	2	27	25	3	1	0					1.49	29.80
Q0234	1.12	117	25	17.99	5.56	15.54	11.11	14.78	22.22	7.71	0.00	0.91	1.11	33.33	40.00	2	39	3	3	1	1	0.00	0.00				
Q0236	0.89	57	32	45.21	11.11	16.45	12.22	13.81	18.89	0.00	0.00	0.00	0.00	31.11	42.22	2	34	0	3	1	1	0.89	27.69				
Q0244	0.19	50	25	110.58	27.50	24.26	18.50	20.92	29.50	28.82	9.47	0.97	7.00	48.00	82.50	5	28	19	3	1	0	0.00	0.00				
	261.58																					**81.90**	**3,406.34**	**139.99**	**6,391.18**	**20.04**	**136.59**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
EE0235	2009	69741	Alternate 19D/K OSUT Training Area	1.43	79.37				
pp1023*	2009	69741	Alternate 19D/K OSUT Training Area					1.21	0.00
pp248*	2009	69741	Alternate 19D/K OSUT Training Area					2.31	0.00
pp30*	2009	69741	Alternate 19D/K OSUT Training Area					0.37	0.00
pp32*	2009	69741	Alternate 19D/K OSUT Training Area					6.54	0.00
Q0113	2009	69741	Alternate 19D/K OSUT Training Area			20.60	1,102.10		
Q0116	2009	69741	Alternate 19D/K OSUT Training Area	3.36	210.00				
Q0122	2009	69741	Alternate 19D/K OSUT Training Area			18.41	929.71		
Q0206	2009	69741	Alternate 19D/K OSUT Training Area	11.02	440.80				
Q0221	2009	69741	Alternate 19D/K OSUT Training Area			13.86	519.75		
Q0222	2009	69741	Alternate 19D/K OSUT Training Area					2.51	62.75
Q0228	2009	69741	Alternate 19D/K OSUT Training Area	10.29	385.88				
Q0231	2009	69741	Alternate 19D/K OSUT Training Area					0.68	13.60
Q0236	2009	69741	Alternate 19D/K OSUT Training Area	0.69	21.47				
			TOTAL REMOVALS	**26.79**	**1,137.52**	**52.87**	**2,551.56**	**13.62**	**76.35**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**55.11**	**2,268.82**
Potentially Suitable Habitat	**87.12**	**3,839.62**
Future Potential Habitat	**6.42**	**60.24**
TOTAL	**148.65**	**6,168.68**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21P = Longleaf Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine
31U = Loblolly Pine Underplanted
32 = Shortleaf Pine
42** = Upland Hardwood-Yellow Pine
42U** = Upland Hardwood-Yellow Pine Underplanted

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-280. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **Q02-03, Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA
EE0235	4.44	48	31	14.17	4.50	32.15	24.00	20.70	31.50	3.79	0.00	1.17	2.00	55.50	62.00	1	34	2	3	1	4.47	PS				
pp1023*	1.69	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH				
pp248*	2.74	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH				
pp27*	0.65	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH				
pp30*	0.41	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH				
pp32*	9.43	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH				
Q0113	25.58	48	31	14.25	5.50	24.68	18.50	25.09	35.00	17.31	1.47	1.41	2.50	53.50	61.50	6	50	5	3	1	4.34	PS				
Q0113	12.30	48	31U	14.25	5.50	24.68	18.50	25.09	35.00	17.31	1.47	1.41	2.50	53.50	61.50	6	50	5	3	1	4.34	PS				
Q0116	7.19	48	31	15.53	6.25	43.00	31.25	21.43	31.25	7.05	1.34	0.00	1.25	62.50	70.00	2	21	2	3	1	4.37	PS				
Q0120	1.27	55	42**	26.46	8.57	7.99	5.71	9.55	14.29	39.24	23.76	17.88	44.29	20.00	72.86	1	17	70	3	1	3.34	PS				
Q0122	30.61	48	31	14.55	6.00	40.24	27.50	18.09	23.00	12.06	1.42	0.94	2.00	50.50	58.50	6	32	4	3	1	4.24	PS				
Q0122	10.58	48	31U	14.55	6.00	40.24	27.50	18.09	23.00	12.06	1.42	0.94	2.00	50.50	58.50	6	32	4	3	1	4.24	PS				
Q0206	32.44	61	31	39.68	13.00	31.11	21.50	13.97	18.50	2.46	0.00	0.54	1.00	40.00	54.00	2	36	1	3	1	4.39	PS				
Q0211	16.36	109	42**	8.52	2.00	11.06	9.00	18.50	33.50	19.22	11.57	5.00	16.00	42.50	60.50	5	31	36	3	1	4.27	PS				
Q0211	0.06	109	42U**	8.52	2.00	11.06	9.00	18.50	33.50	19.22	11.57	5.00	16.00	42.50	60.50	5	31	36	3	1	4.27	PS				
Q0221	60.92	124	25	32.84	9.50	31.25	21.50	11.86	16.00	0.00	3.04	0.25	2.50	37.50	49.50	4	34	7	3	1	4.11	PS				
Q0222	4.07	117	13	0.00	0.00	15.30	10.00	9.50	15.00	21.30	0.00	1.30	2.50	25.00	27.50	5	33	5	3	1	3.92	PS				
Q0228	36.94	108	31	11.39	3.50	6.99	4.50	15.54	33.00	17.26	3.71	0.00	2.50	37.50	43.50	2	16	14	3	1	4.28	PS				
Q0229	0.21	50	13	17.90	4.00	0.00	0.00	9.15	24.00	15.20	0.00	6.06	12.00	24.00	40.00	7	28	40	3	1	3.46	PS				
Q0231	1.49	124	32	23.46	5.71	9.24	7.14	8.98	12.86	19.98	1.98	4.21	7.14	20.00	32.86	2	27	25	3	1	3.35	PS				
Q0234	1.12	117	25	17.99	5.56	15.54	11.11	14.78	22.22	7.71	0.00	0.91	1.11	33.33	40.00	2	39	3	3	1	4.54	PS				
Q0236	0.89	57	32	45.21	11.11	16.45	12.22	13.81	18.89	0.00	0.00	0.00	0.00	31.11	42.22	2	34	0	3	1	4.14	PS				
Q0244	0.19	50	25	110.58	27.50	24.26	18.50	20.92	29.50	28.82	9.47	0.97	7.00	48.00	82.50	5	28	19	3	1	4.03	PS				
	261.58																						**0.00**	**0.00**	**0.00**	**0.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
EE0235	2009	69741	Alternate 19D/K OSUT Training Area					1.43	79.37
pp1023*	2009	69741	Alternate 19D/K OSUT Training Area					1.21	0.00
pp248*	2009	69741	Alternate 19D/K OSUT Training Area					2.31	0.00
pp30*	2009	69741	Alternate 19D/K OSUT Training Area					0.37	0.00
pp32*	2009	69741	Alternate 19D/K OSUT Training Area					6.54	0.00
Q0113	2009	69741	Alternate 19D/K OSUT Training Area					20.60	1,102.10
Q0116	2009	69741	Alternate 19D/K OSUT Training Area					3.36	210.00
Q0122	2009	69741	Alternate 19D/K OSUT Training Area					18.41	929.71
Q0206	2009	69741	Alternate 19D/K OSUT Training Area					11.02	440.80
Q0221	2009	69741	Alternate 19D/K OSUT Training Area					13.86	519.75
Q0222	2009	69741	Alternate 19D/K OSUT Training Area					2.51	62.75
Q0228	2009	69741	Alternate 19D/K OSUT Training Area					10.29	385.88
Q0231	2009	69741	Alternate 19D/K OSUT Training Area					0.68	13.60
Q0236	2009	69741	Alternate 19D/K OSUT Training Area					0.69	21.47
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**93.28**	**3,765.43**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**148.65**	**6,168.68**
TOTAL	**148.65**	**6,168.68**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1= non-growing season
2= growing season

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
13 = Loblolly Pine-Hardwood
21P = Longleaf Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine
31U = Loblolly Pine Underplanted
32 = Shortleaf Pine
42** = Upland Hardwood-Yellow Pi
42U** = Upland Hardwood-Yellow

*** Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Pla counted towards the total foraging habitat available within the partition.

Appendix Table H-281. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **Q02-04F**, **Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgi

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
pp22*	13.55	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					13.55	0.00
pp23*	3.48	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.48	0.00
pp24*	2.55	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.55	0.00
pp25*	1.91	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.91	0.00
pp26*	5.18	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.18	0.00
pp27*	3.52	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.52	0.00
pp28*	3.08	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.08	0.00
pp29*	7.63	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					7.63	0.00
pp30*	1.44	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.44	0.00
pp31*	1.30	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.30	0.00
pp37*	2.54	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.54	0.00
pp985*	19.67	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					19.67	0.00
pp986*	8.22	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					8.22	0.00
Q0231	5.43	124	32	23.46	5.71	9.24	7.14	8.98	12.86	19.98	1.98	4.21	7.14	20.00	32.86	2	27	25	3	1	0					5.43	108.60
Q0234	7.39	117	25	17.99	5.56	15.54	11.11	14.78	22.22	7.71	0.00	0.91	1.11	33.33	40.00	2	39	3	3	1	1	7.39	246.31				
Q0236	3.47	57	32	45.21	11.11	16.45	12.22	13.81	18.89	0.00	0.00	0.00	0.00	31.11	42.22	2	34	0	3	1	1	3.47	107.95				
Q0238	11.45	48	31	43.75	12.00	23.68	18.00	20.08	27.50	5.05	1.02	0.43	1.50	45.50	59.00	4	32	3	3	1	0			11.45	520.98		
Q0244	16.35	50	25	110.58	27.50	24.26	18.50	20.92	29.50	28.82	9.47	0.97	7.00	48.00	82.50	5	28	19	3	1	0			16.35	784.80		
Q0245	1.07	19	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
Q0251	11.70	56	31	41.14	11.50	31.18	21.50	5.80	9.50	16.63	0.72	0.75	1.50	31.00	44.00	2	31	4	3	1	1	11.70	362.70				
Q0252	2.81	19	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
Q0253	1.68	106	11	24.19	4.44	4.31	3.33	15.44	26.67	6.22	0.00	0.96	2.22	30.00	36.67	1	22	5	3	1	1	1.68	50.40				
Q0256	39.90	49	31	51.64	14.00	25.38	18.00	12.82	17.00	4.01	0.00	0.00	0.00	35.00	49.00	2	28	0	3	1	1	39.90	1,396.50				
Q0259	1.80	56	31	22.63	7.14	26.89	18.57	10.13	15.71	6.01	2.02	1.63	4.29	34.29	45.71	1	29	9	3	1	1	1.80	61.72				
Q0266	18.36	106	31	19.10	5.50	21.68	16.50	15.54	25.50	13.53	2.51	2.56	5.00	42.00	52.50	2	34	12	3	1	1	18.36	771.12				
Q0302	8.62	109	31	88.62	26.00	31.55	21.00	10.45	17.00	25.08	4.71	1.62	6.00	38.00	70.00	2	14	13	3	1	0			8.62	327.56		
Q0330	6.56	41	25	3.86	1.67	25.59	18.33	10.96	15.00	24.03	2.57	0.87	5.00	33.33	40.00	2	18	9	3	1	1	6.56	218.64				
Q0332	8.21	58	31	73.65	20.00	16.10	12.50	14.64	22.50	55.37	16.06	1.39	13.75	35.00	68.75	5	10	36	3	1	0			0.00	0.00		
Q0333	4.74	58	31	19.22	6.00	20.57	15.00	29.72	41.00	22.60	6.62	1.39	6.00	56.00	68.00	2	19	14	3	1	1	0.00	0.00				
Q0403	5.25	85	13	15.34	2.86	1.65	1.43	15.53	35.71	47.38	6.23	9.19	18.57	37.14	58.57	7	3	47	3	1	0			5.25	194.99		
Q0404	3.91	85	13	16.95	2.50	9.79	7.50	17.37	42.50	32.32	2.75	2.49	7.50	50.00	60.00	7	15	16	3	1	0			3.91	195.50		
	232.77																					**90.86**	**3,215.34**	**45.58**	**2,023.83**	**79.50**	**108.60**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
pp37*	2009	69668	Good Hope Training Area Infrastructure					0.17	0.00
Q0266	2009	69668	Good Hope Training Area Infrastructure	2.16	90.72				
Q0403	2009	69668	Good Hope Training Area Infrastructure			2.02	75.02		
Q0403	2009	69668	Good Hope Maneuver Heavy Use Area			3.23	119.96		
Q0404	2009	69668	Good Hope Training Area Infrastructure			1.00	50.00		
Q0404	2009	69668	Good Hope Maneuver Heavy Use Area			2.91	145.50		
			TOTAL REMOVALS	**2.16**	**90.72**	**9.16**	**390.48**	**0.17**	**0.00**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**88.70**	**3,124.62**
Potentially Suitable Habitat	**36.42**	**1,633.35**
Future Potential Habitat	**79.33**	**108.60**
TOTAL	**204.45**	**4,866.57**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
11 = Longleaf Pine-Hardwood
13 = Loblolly Pine-Hardwood
21P = Longleaf Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine
32 = Shortleaf Pine
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-282. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **Q02-04R, Alternative A** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
pp22*	13.55	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					13.55	0.00
pp23*	3.48	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.48	0.00
pp24*	2.55	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.55	0.00
pp25*	1.91	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.91	0.00
pp26*	5.18	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					5.18	0.00
pp27*	3.52	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.52	0.00
pp28*	3.08	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.08	0.00
pp29*	7.63	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					7.63	0.00
pp30*	1.44	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.44	0.00
pp31*	1.30	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.30	0.00
pp37*	2.54	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.54	0.00
pp985*	19.67	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					19.67	0.00
pp986*	8.22	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					8.22	0.00
Q0231	5.43	124	32	23.46	5.71	9.24	7.14	8.98	12.86	19.98	1.98	4.21	7.14	20.00	32.86	2	27	25	3	1	3.35	PS					5.43	108.60
Q0234	7.39	117	25	17.99	5.56	15.54	11.11	14.78	22.22	7.71	0.00	0.91	1.11	33.33	40.00	2	39	3	3	1	4.54	CS					7.39	246.31
Q0236	3.47	57	32	45.21	11.11	16.45	12.22	13.81	18.89	0.00	0.00	0.00	0.00	31.11	42.22	2	34	0	3	1	4.14	PS					3.47	107.95
Q0238	11.45	48	31	43.75	12.00	23.68	18.00	20.08	27.50	5.05	1.02	0.43	1.50	45.50	59.00	4	32	3	3	1	4.28	PS					11.45	520.98
Q0244	16.35	50	25	110.58	27.50	24.26	18.50	20.92	29.50	28.82	9.47	0.97	7.00	48.00	82.50	5	28	19	3	1	4.03	PS					16.35	784.80
Q0245	1.07	19	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
Q0251	11.70	56	31	41.14	11.50	31.18	21.50	5.80	9.50	16.63	0.72	0.75	1.50	31.00	44.00	2	31	4	3	1	3.56	PS					11.70	362.70
Q0252	2.81	19	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	NH					0.00	0.00
Q0253	1.68	106	11	24.19	4.44	4.31	3.33	15.44	26.67	6.22	0.00	0.96	2.22	30.00	36.67	1	22	5	3	1	4.38	PS					1.68	50.40
Q0256	39.90	49	31	51.64	14.00	25.38	18.00	12.82	17.00	4.01	0.00	0.00	0.00	35.00	49.00	2	28	0	3	1	3.80	PS					39.90	1,396.50
Q0259	1.80	56	31	22.63	7.14	26.89	18.57	10.13	15.71	6.01	2.02	1.63	4.29	34.29	45.71	1	29	9	3	1	4.00	PS					1.80	61.72
Q0266	18.36	106	31	19.10	5.50	21.68	16.50	15.54	25.50	13.53	2.51	2.56	5.00	42.00	52.50	2	34	12	3	1	4.53	CS					18.36	771.12
Q0302	8.62	109	31	88.62	26.00	31.55	21.00	10.45	17.00	25.08	4.71	1.62	6.00	38.00	70.00	2	14	13	3	1	3.86	PS					8.62	327.56
Q0330	6.56	41	25	3.86	1.67	25.59	18.33	10.96	15.00	24.03	2.57	0.87	5.00	33.33	40.00	2	18	9	3	1	3.77	PS					6.56	218.64
Q0332	8.21	58	31	73.65	20.00	16.10	12.50	14.64	22.50	55.37	16.06	1.39	13.75	35.00	68.75	5	10	36	3	1	3.62	PS					0.00	0.00
Q0333	4.74	58	31	19.22	6.00	20.57	15.00	29.72	41.00	22.60	6.62	1.39	6.00	56.00	68.00	2	19	14	3	1	4.34	PS					0.00	0.00
Q0403	5.25	85	13	15.34	2.86	1.65	1.43	15.53	35.71	47.38	6.23	9.19	18.57	37.14	58.57	7	3	47	3	1	3.65	PS					5.25	194.99
Q0404	3.91	85	13	16.95	2.50	9.79	7.50	17.37	42.50	32.32	2.75	2.49	7.50	50.00	60.00	7	15	16	3	1	3.93	PS					3.91	195.50
	232.77																						**0.00**	**0.00**	**0.00**	**0.00**	**215.94**	**5,347.77**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
pp37*	2009	69668	Good Hope Training Area Infrastructure					0.17	0.00
Q0266	2009	69668	Good Hope Training Area Infrastructure					2.16	90.72
Q0403	2009	69668	Good Hope Training Area Infrastructure					2.02	75.02
Q0403	2009	69668	Good Hope Maneuver Heavy Use Area					3.23	119.96
Q0404	2009	69668	Good Hope Training Area Infrastructure					1.00	50.00
Q0404	2009	69668	Good Hope Maneuver Heavy Use Area					2.91	145.50
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**11.49**	**481.20**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**204.45**	**4,866.57**
TOTAL	**204.45**	**4,866.57**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
11 = Longleaf Pine-Hardwood
13 = Loblolly Pine-Hardwood
21P = Longleaf Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine
32 = Shortleaf Pine
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-283. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **Q02-04R Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
pp22*	13.55	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					13.55	0.00
pp23*	3.48	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.48	0.00
pp24*	2.55	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.55	0.00
pp25*	1.91	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.91	0.00
pp26*	5.18	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					5.18	0.00
pp27*	3.52	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.52	0.00
pp28*	3.08	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.08	0.00
pp29*	7.63	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					7.63	0.00
pp30*	1.44	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.44	0.00
pp31*	1.30	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.30	0.00
pp37*	2.54	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					2.54	0.00
pp985*	19.67	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					19.67	0.00
pp986*	8.22	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					8.22	0.00
Q0231	5.43	124	32	23.46	5.71	9.24	7.14	8.98	12.86	19.98	1.98	4.21	7.14	20.00	32.86	2	27	25	3	1	0					5.43	108.60
Q0234	7.39	117	25	17.99	5.56	15.54	11.11	14.78	22.22	7.71	0.00	0.91	1.11	33.33	40.00	2	39	3	3	1	1	7.39	246.31				
Q0236	3.47	57	32	45.21	11.11	16.45	12.22	13.81	18.89	0.00	0.00	0.00	0.00	31.11	42.22	2	34	0	3	1	1	3.47	107.95				
Q0238	11.45	48	31	43.75	12.00	23.68	18.00	20.08	27.50	5.05	1.02	0.43	1.50	45.50	59.00	4	32	3	3	1	0			11.45	520.98		
Q0244	16.35	50	25	110.58	27.50	24.26	18.50	20.92	29.50	28.82	9.47	0.97	7.00	48.00	82.50	5	28	19	3	1	0			16.35	784.80		
Q0245	1.07	19	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
Q0251	11.70	56	31	41.14	11.50	31.18	21.50	5.80	9.50	16.63	0.72	0.75	1.50	31.00	44.00	2	31	4	3	1	1	11.70	362.70				
Q0252	2.81	19	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	0					0.00	0.00
Q0253	1.68	106	11	24.19	4.44	4.31	3.33	15.44	26.67	6.22	0.00	0.96	2.22	30.00	36.67	1	22	5	3	1	1	1.68	50.40				
Q0256	39.90	49	31	51.64	14.00	25.38	18.00	12.82	17.00	4.01	0.00	0.00	0.00	35.00	49.00	2	28	0	3	1	1	39.90	1,396.50				
Q0259	1.80	56	31	22.63	7.14	26.89	18.57	10.13	15.71	6.01	2.02	1.63	4.29	34.29	45.71	1	29	9	3	1	1	1.80	61.72				
Q0266	18.36	106	31	19.10	5.50	21.68	16.50	15.54	25.50	13.53	2.51	2.56	5.00	42.00	52.50	2	34	12	3	1	1	18.36	771.12				
Q0302	8.62	109	31	88.62	26.00	31.55	21.00	10.45	17.00	25.08	4.71	1.62	6.00	38.00	70.00	2	14	13	3	1	0			8.62	327.56		
Q0330	6.56	41	25	3.86	1.67	25.59	18.33	10.96	15.00	24.03	2.57	0.87	5.00	33.33	40.00	2	18	9	3	1	1	6.56	218.64				
Q0332	8.21	58	31	73.65	20.00	16.10	12.50	14.64	22.50	55.37	16.06	1.39	13.75	35.00	68.75	5	10	36	3	1	0			0.00	0.00		
Q0333	4.74	58	31	19.22	6.00	20.57	15.00	29.72	41.00	22.60	6.62	1.39	6.00	56.00	68.00	2	19	14	3	1	1	0.00	0.00				
Q0403	5.25	85	13	15.34	2.86	1.65	1.43	15.53	35.71	47.38	6.23	9.19	18.57	37.14	58.57	7	3	47	3	1	0			5.25	194.99		
Q0404	3.91	85	13	16.95	2.50	9.79	7.50	17.37	42.50	32.32	2.75	2.49	7.50	50.00	60.00	7	15	16	3	1	0			3.91	195.50		
	232.77																					**90.86**	**3,215.34**	**45.58**	**2,023.83**	**79.50**	**108.60**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
pp22*	2009	69741	Alternate 19D/K OSUT Training Area					5.38	0.00
pp23*	2009	69741	Alternate 19D/K OSUT Training Area					2.28	0.00
pp24*	2009	69741	Alternate 19D/K OSUT Training Area					1.83	0.00
pp25*	2009	69741	Alternate 19D/K OSUT Training Area					0.91	0.00
pp26*	2009	69741	Alternate 19D/K OSUT Training Area					2.09	0.00
pp27*	2009	69741	Alternate 19D/K OSUT Training Area					1.49	0.00
pp28*	2009	69741	Alternate 19D/K OSUT Training Area					2.27	0.00
pp29*	2009	69741	Alternate 19D/K OSUT Training Area					2.70	0.00
pp30*	2009	69741	Alternate 19D/K OSUT Training Area					1.36	0.00
pp31*	2009	69741	Alternate 19D/K OSUT Training Area					0.66	0.00
pp37*	2009	69741	Alternate 19D/K OSUT Training Area					1.46	0.00
pp37*	2009	69668	Good Hope Training Area Infrastructure					0.17	0.00
pp985*	2009	69741	Alternate 19D/K OSUT Training Area					10.03	0.00
pp986*	2009	69741	Alternate 19D/K OSUT Training Area					3.42	0.00
Q0231	2009	69741	Alternate 19D/K OSUT Training Area					4.12	82.40
Q0234	2009	69741	Alternate 19D/K OSUT Training Area	4.55	151.65				
Q0236	2009	69741	Alternate 19D/K OSUT Training Area	0.98	30.49				
Q0238	2009	69741	Alternate 19D/K OSUT Training Area			4.73	215.22		
Q0244	2009	69741	Alternate 19D/K OSUT Training Area			9.42	452.16		
Q0251	2009	69741	Alternate 19D/K OSUT Training Area	5.96	184.76				
Q0253	2009	69741	Alternate 19D/K OSUT Training Area	0.82	24.60				
Q0256	2009	69741	Alternate 19D/K OSUT Training Area	21.42	749.70				
Q0259	2009	69741	Alternate 19D/K OSUT Training Area	1.31	44.92				
Q0266	2009	69741	Alternate 19D/K OSUT Training Area	8.06	338.52				
Q0266	2009	69668	Good Hope Training Area Infrastructure	2.16	90.72				
Q0302	2009	69741	Alternate 19D/K OSUT Training Area			2.60	98.80		
Q0403	2009	69668	Good Hope Training Area Infrastructure			2.02	75.02		
Q0403	2009	69668	Good Hope Maneuver Heavy Use Area			3.23	119.96		
Q0404	2009	69668	Good Hope Training Area Infrastructure			1.00	50.00		
Q0404	2009	69668	Good Hope Maneuver Heavy Use Area			2.91	145.50		
			2009 SUB-TOTAL	**45.26**	**1,615.36**	**25.91**	**1,156.66**	**40.17**	**82.40**

POST-PROJECT	**2009 SUB-TOTAL**		**non-contiguous habitat**		**2009 TOTAL**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**45.60**	**1,599.98**	**25.04**	**865.44**	**20.56**	**734.54**
Potentially Suitable Habitat	**19.67**	**867.17**	**6.93**	**332.64**	**12.74**	**534.53**
Future Potential Habitat	**39.33**	**26.20**	**3.09**	**0.00**	**36.24**	**26.20**
TOTAL	**104.60**	**2,493.35**	**35.06**	**1,198.08**	**69.54**	**1,295.27**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
11 = Longleaf Pine-Hardwood
13 = Loblolly Pine-Hardwood
21P = Longleaf Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine
32 = Shortleaf Pine
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Stands Q0244, Q0256, Q0330, Q0403, Q0404 and pp26 will be non-contiguous as a result of FY 2009 project impacts and cannot be counted towards the available foraging habitat for the partition.

Appendix Table H-284. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **Q02-04R, Alternative B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Mildstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
pp22*	13.55	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					13.55	0.00
pp23*	3.48	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.48	0.00
pp24*	2.55	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.55	0.00
pp25*	1.91	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.91	0.00
pp26*	5.18	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					5.18	0.00
pp27*	3.52	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.52	0.00
pp28*	3.08	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.08	0.00
pp29*	7.63	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					7.63	0.00
pp30*	1.44	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.44	0.00
pp31*	1.30	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.30	0.00
pp37*	2.54	8	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					2.54	0.00
pp985*	19.67	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					19.67	0.00
pp986*	8.22	1	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					8.22	0.00
Q0231	5.43	124	32	23.46	5.71	9.24	7.14	8.98	12.86	19.98	1.98	4.21	7.14	20.00	32.86	2	27	25	3	1	3.35	PS					5.43	108.60
Q0234	7.39	117	25	17.99	5.56	15.54	11.11	14.78	22.22	7.71	0.00	0.91	1.11	33.33	40.00	2	39	3	3	1	4.54	PS					7.39	246.31
Q0236	3.47	57	32	45.21	11.11	16.45	12.22	13.81	18.89	0.00	0.00	0.00	0.00	31.11	42.22	2	34	0	3	1	4.14	PS					3.47	107.95
Q0238	11.45	48	31	43.75	12.00	23.68	18.00	20.08	27.50	5.05	1.02	0.43	1.50	45.50	59.00	4	32	3	3	1	4.28	PS					11.45	520.98
Q0244	16.35	50	25	110.58	27.50	24.26	18.50	20.92	29.50	28.82	9.47	0.97	7.00	48.00	82.50	5	28	19	3	1	4.03	PS					16.35	784.80
Q0245	1.07	19	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	PS					0.00	0.00
Q0251	11.70	56	31	41.14	11.50	31.18	21.50	5.80	9.50	16.63	0.72	0.75	1.50	31.00	44.00	2	31	4	3	1	3.56	PS					11.70	362.70
Q0252	2.81	19	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	1	2.06	PS					0.00	0.00
Q0253	1.68	106	11	24.19	4.44	4.31	3.33	15.44	26.67	6.22	0.00	0.96	2.22	30.00	36.67	1	22	5	3	1	4.38	PS					1.68	50.40
Q0256	39.90	49	31	51.64	14.00	25.38	18.00	12.82	17.00	4.01	0.00	0.00	0.00	35.00	49.00	2	28	0	3	1	3.80	PS					39.90	1,396.50
Q0259	1.80	56	31	22.63	7.14	26.89	18.57	10.13	15.71	6.01	2.02	1.63	4.29	34.29	45.71	1	29	9	3	1	4.00	PS					1.80	61.72
Q0266	18.36	106	31	19.10	5.50	21.68	16.50	15.54	25.50	13.53	2.51	2.56	5.00	42.00	52.50	2	34	12	3	1	4.53	PS					18.36	771.12
Q0302	8.62	109	31	88.62	26.00	31.55	21.00	10.45	17.00	25.08	4.71	1.62	6.00	38.00	70.00	2	14	13	3	1	3.86	PS					8.62	327.56
Q0330	6.56	41	25	3.86	1.67	25.59	18.33	10.96	15.00	24.03	2.57	0.87	5.00	33.33	40.00	2	18	9	3	1	3.77	PS					6.56	218.64
Q0332	8.21	58	31	73.65	20.00	16.10	12.50	14.64	22.50	55.37	16.06	1.39	13.75	35.00	68.75	5	10	36	3	1	3.62	PS					0.00	0.00
Q0333	4.74	58	31	19.22	6.00	20.57	15.00	29.72	41.00	22.60	6.62	1.39	6.00	56.00	68.00	2	19	14	3	1	4.34	PS					0.00	0.00
Q0403	5.25	85	13	15.34	2.86	1.65	1.43	15.53	35.71	47.38	6.23	9.19	18.57	37.14	58.57	7	3	47	3	1	3.65	PS					5.25	194.99
Q0404	3.91	85	13	16.95	2.50	9.79	7.50	17.37	42.50	32.32	2.75	2.49	7.50	50.00	60.00	7	15	16	3	1	3.93	PS					3.91	195.50
	232.77																						**0.00**	**0.00**	**0.00**	**0.00**	**215.94**	**5,347.77**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
pp22*	2009	69741	Alternate 19D/K OSUT Training Area					5.38	0.00
pp23*	2009	69741	Alternate 19D/K OSUT Training Area					2.28	0.00
pp24*	2009	69741	Alternate 19D/K OSUT Training Area					1.83	0.00
pp25*	2009	69741	Alternate 19D/K OSUT Training Area					0.91	0.00
pp26*	2009	69741	Alternate 19D/K OSUT Training Area					2.09	0.00
pp27*	2009	69741	Alternate 19D/K OSUT Training Area					1.49	0.00
pp28*	2009	69741	Alternate 19D/K OSUT Training Area					2.27	0.00
pp29*	2009	69741	Alternate 19D/K OSUT Training Area					2.70	0.00
pp30*	2009	69741	Alternate 19D/K OSUT Training Area					1.36	0.00
pp31*	2009	69741	Alternate 19D/K OSUT Training Area					0.66	0.00
pp37*	2009	69741	Alternate 19D/K OSUT Training Area					1.46	0.00
pp37*	2009	69668	Good Hope Training Area Infrastructure					0.17	0.00
pp985*	2009	69741	Alternate 19D/K OSUT Training Area					10.03	0.00
pp986*	2009	69741	Alternate 19D/K OSUT Training Area					3.42	0.00
Q0231	2009	69741	Alternate 19D/K OSUT Training Area					4.12	82.40
Q0234	2009	69741	Alternate 19D/K OSUT Training Area					4.55	151.65
Q0236	2009	69741	Alternate 19D/K OSUT Training Area					0.98	30.49
Q0238	2009	69741	Alternate 19D/K OSUT Training Area					4.73	215.22
Q0244	2009	69741	Alternate 19D/K OSUT Training Area					9.42	452.16
Q0251	2009	69741	Alternate 19D/K OSUT Training Area					5.96	184.76
Q0253	2009	69741	Alternate 19D/K OSUT Training Area					0.82	24.60
Q0256	2009	69741	Alternate 19D/K OSUT Training Area					21.42	749.70
Q0259	2009	69741	Alternate 19D/K OSUT Training Area					1.31	44.92
Q0266	2009	69741	Alternate 19D/K OSUT Training Area					8.06	338.52
Q0266	2009	69668	Good Hope Training Area Infrastructure					2.16	90.72
Q0302	2009	69741	Alternate 19D/K OSUT Training Area					2.60	98.80
Q0403	2009	69668	Good Hope Training Area Infrastructure					2.02	75.02
Q0403	2009	69668	Good Hope Maneuver Heavy Use Area					3.23	119.96
Q0404	2009	69668	Good Hope Training Area Infrastructure					1.00	50.00
Q0404	2009	69668	Good Hope Maneuver Heavy Use Area					2.91	145.50
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**111.34**	**2,854.42**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
11 = Longleaf Pine-Hardwood
13 = Loblolly Pine-Hardwood
21P = Longleaf Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine
32 = Shortleaf Pine
NM = not managed

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Stands Q0244, Q0256, Q0330, Q0403, Q0404 and pp26 will be non-contiguous as a result of FY 2009 project impacts and cannot be counted towards the available foraging habitat for the partition.

POST-PROJECT

	2009 SUB-TOTAL		non-contiguous habitat		2009 TOTAL	
	Acres	BA	Acres	BA	Acres	BA
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Future Potential Habitat	**104.60**	**2,493.35**	**35.06**	**1,198.08**	**69.54**	**1,295.27**
TOTAL	**104.60**	**2,493.35**	**35.06**	**1,198.08**	**69.54**	**1,295.27**

Appendix Table H-285. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **R02-01R**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
AOB10	16.77	59	10	37.23	13.00	20.63	14.00	8.74	12.50	8.32	6.29	6.21	15.00	26.50	54.50	3	15	30	3	1	0					16.77	444.41
pp1024*	0.24	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.24	0.00
pp633*	0.17	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.17	0.00
R0127	0.01	88	31	14.32	5.00	46.31	30.00	0.00	0.00	0.00	0.00	0.00	0.00	30.00	35.00	2	15	0	3	1	1	0.01	0.30				
R0130	1.99	79	13	97.78	27.50	85.35	57.50	9.94	12.50	27.25	7.53	2.04	7.50	70.00	105.00	1	0	9	3	1	0			1.99	139.30		
R0130	0.09	79	13U	97.78	27.50	85.35	57.50	9.94	12.50	27.25	7.53	2.04	7.50	70.00	105.00	1	0	9	3	1	0			0.09	6.30		
R0131	0.36	40	26	46.84	12.50	21.18	15.00	11.71	16.00	13.55	0.00	1.71	2.00	31.00	45.50	1	24	5	3	1	1	0.36	11.16				
R0131	13.34	40	26U	46.84	12.50	21.18	15.00	11.71	16.00	13.55	0.00	1.71	2.00	31.00	45.50	1	24	5	3	1	1	13.34	413.54				
R0133	6.29	88	21	23.73	5.50	8.51	6.50	22.10	34.00	14.47	6.50	2.21	7.00	40.50	53.00	2	19	22	3	1	1	6.29	254.75				
R0211	16.00	68	31	9.10	3.16	3.58	2.63	16.40	32.11	20.40	17.55	9.45	26.32	34.74	64.21	6	3	57	3	1	0			0.00	0.00		
R0212	31.89	65	42**	13.57	4.50	15.79	11.50	13.50	27.50	20.71	11.45	8.20	22.00	39.00	65.50	2	7	40	3	1	0					0.00	0.00
R0218	11.58	89	26	44.95	13.53	9.18	6.47	14.04	26.47	4.15	1.30	0.81	2.35	32.94	48.82	2	15	8	3	1	1	11.58	381.45				
R0219	9.20	89	26	43.79	13.16	17.03	11.58	17.60	28.95	15.84	8.35	5.97	15.26	40.53	68.95	1	6	29	3	1	1	9.20	372.88				
R0223	0.94	83	13	0.00	0.00	11.17	8.75	20.24	33.75	8.42	6.06	8.11	18.75	42.50	61.25	1	1	31	3	1	1	0.94	39.95				
R0226	15.71	76	26	10.40	2.50	9.09	6.50	28.63	51.00	11.97	2.86	1.89	5.00	57.50	65.00	1	17	11	3	1	1	15.71	903.33				
R0227	4.52	22	31	59.41	15.00	8.99	5.00	0.00	0.00	23.54	0.00	0.00	0.00	5.00	20.00	7	3	0	3	1	0					4.52	22.60
R0228	9.93	89	10	2.26	1.11	6.03	4.44	9.53	16.67	24.42	9.43	7.32	16.67	21.11	38.89	6	10	52	3	1	0					9.93	209.62
R0229	7.95	88	31	60.09	18.75	26.34	20.00	5.00	6.25	17.52	2.44	0.00	1.25	26.25	46.25	2	21	7	3	1	0					7.95	208.69
R0230	14.78	88	10	38.00	9.50	9.62	6.50	6.97	11.50	41.45	14.23	2.58	13.50	18.00	41.00	2	13	50	3	1	0					14.78	266.04
R0231	3.16	83	10	6.03	1.58	2.62	2.11	20.22	36.84	8.15	10.02	10.66	23.16	38.95	63.68	2	3	48	3	1	1	3.16	123.08				
R0235	8.77	76	25	31.19	5.56	13.69	10.00	37.72	65.56	4.16	0.00	1.02	2.22	75.56	83.33	6	16	2	3	1	0			8.77	662.66		
R0237	25.05	81	13	24.14	7.37	7.34	5.26	11.92	20.53	23.15	12.35	3.22	15.26	25.79	48.42	2	17	45	3	1	0					25.05	646.04
R0238	16.96	88	31	24.91	7.00	10.16	7.50	14.48	25.50	33.08	12.16	7.36	21.00	33.00	61.00	2	14	44	3	1	1	16.96	559.68				
R0242	0.19	93	31	27.98	8.00	13.24	10.50	23.18	38.50	14.04	14.10	3.93	15.50	49.00	72.50	7	6	33	3	1	0			0.19	9.31		
S0104	1.51	53	21	18.25	5.00	2.28	1.50	11.94	24.00	2.24	1.15	1.29	4.50	25.50	35.00	1	31	15	3	1	0					1.51	38.51
S0106	2.49	27	31	25.61	6.25	3.26	2.50	0.71	1.25	0.00	0.00	0.00	0.00	3.75	10.00	1	58	0	3	1	0					2.49	9.34
S0108	11.63	72	31	18.61	5.50	17.90	13.00	16.73	30.50	5.67	3.45	1.83	5.50	43.50	54.50	1	25	13	3	1	1	11.63	505.91				
S0118	0.52	45	31	12.56	4.50	18.98	13.00	17.04	29.50	2.31	1.53	2.09	4.00	42.50	51.00	1	12	9	3	1	1	0.52	22.10				
	232.04																					**89.70**	**3,588.13**	**11.04**	**817.57**	**83.41**	**1,845.25**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
AOB10	2009	72017	Vehicle Recovery Course					0.39	10.34
AOB10	2009	65554	Construct Training Area Roads, Paved					2.64	69.96
pp1024*	2009	72017	Vehicle Recovery Course					0.24	0.00
R0127	2009	72017	Vehicle Recovery Course	0.01	0.30				
R0130	2009	72017	Vehicle Recovery Course			2.08	145.60		
R0131	2009	72017	Vehicle Recovery Course	13.70	424.70				
R0133	2009	72017	Vehicle Recovery Course	4.79	194.00				
R0133	2009	65554	Construct Training Area Roads, Paved	1.50	60.75				
R0226	2009	67457	Infrastructure Support - Utilities	0.89	51.18				
R0226	2009	65554	Construct Training Area Roads, Paved	0.34	19.55				
R0230	2009	64797	Access Road for Drivers Training Area					0.58	10.44
R0235	2009	65554	Construct Training Area Roads, Paved			0.39	29.47		
R0235	2009	67457	Infrastructure Support - Utilities			1.08	81.60		
R0237	2009	64797	Access Road for Drivers Training Area					2.85	73.50
R0237	2009	67457	Infrastructure Support - Utilities					1.06	27.34
R0238	2009	64797	Access Road for Drivers Training Area	2.68	88.44				
R0238	2009	67457	Infrastructure Support - Utilities	0.88	29.04				
			TOTAL REMOVALS	**24.79**	**867.96**	**3.55**	**256.67**	**7.76**	**191.58**

POST-PROJECT	**2009**		**non-contiguous habitat**		**2009 TOTAL**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**64.91**	**2,720.17**	**0.00**	**0.00**	**64.91**	**2,720.17**
Potentially Suitable Habitat	**7.49**	**560.90**	**0.00**	**0.00**	**7.49**	**560.90**
Future Potential Habitat	**75.65**	**1,653.67**	**13.74**	**364.11**	**61.91**	**1,289.56**
TOTAL	**148.05**	**4,934.74**	**13.74**	**364.11**	**134.31**	**4,570.63**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine Hardwood
13U = Loblolly Pine Hardwood Underplanted
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
26U = Mixed Pine-Longleaf Underplanted
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Stand A0B10 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition.

Appendix Table H-286. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **R02-01R, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
AOB10	16.77	59	10	37.23	13.00	20.63	14.00	8.74	12.50	8.32	6.29	6.21	15.00	26.50	54.50	3	15	30	3	1	3.27	PS					16.77	444.41
pp1024*	0.24	0	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.24	0.00
pp633*	0.17	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.17	0.00
R0127	0.01	88	31	14.32	5.00	46.31	30.00	0.00	0.00	0.00	0.00	0.00	0.00	30.00	35.00	2	15	0	3	1	3.28	PS					0.01	0.30
R0130	1.99	79	13	97.78	27.50	85.35	57.50	9.94	12.50	27.25	7.53	2.04	7.50	70.00	105.00	1	0	9	3	1	3.58	PS					1.99	139.30
R0130	0.09	79	13U	97.78	27.50	85.35	57.50	9.94	12.50	27.25	7.53	2.04	7.50	70.00	105.00	1	0	9	3	1	3.58	PS					0.09	6.30
R0131	0.36	40	26	46.84	12.50	21.18	15.00	11.71	16.00	13.55	0.00	1.71	2.00	31.00	45.50	1	24	5	3	1	3.75	PS					0.36	11.16
R0131	13.34	40	26U	46.84	12.50	21.18	15.00	11.71	16.00	13.55	0.00	1.71	2.00	31.00	45.50	1	24	5	3	1	3.75	PS					13.34	413.54
R0133	6.29	88	21	23.73	5.50	8.51	6.50	22.10	34.00	14.47	6.50	2.21	7.00	40.50	53.00	2	19	22	3	1	4.41	PS			6.29	254.75		
R0211	16.00	68	31	9.10	3.16	3.58	2.63	16.40	32.11	20.40	17.55	9.45	26.32	34.74	64.21	6	3	57	3	1	3.76	PS					0.00	0.00
R0212	31.89	65	42**	13.57	4.50	15.79	11.50	13.50	27.50	20.71	11.45	8.20	22.00	39.00	65.50	2	7	40	3	1	3.99	PS					0.00	0.00
R0218	11.58	89	26	44.95	13.53	9.18	6.47	14.04	26.47	4.15	1.30	0.81	2.35	32.94	48.82	2	15	8	3	1	4.11	PS					11.58	381.45
R0219	9.20	89	26	43.79	13.16	17.03	11.58	17.60	28.95	15.84	8.35	5.97	15.26	40.53	68.95	1	6	29	3	1	4.03	PS					9.20	372.88
R0223	0.94	83	13	0.00	0.00	11.17	8.75	20.24	33.75	8.42	6.06	8.11	18.75	42.50	61.25	1	1	31	3	1	4.19	CS	0.94	39.95				
R0226	15.71	76	26	10.40	2.50	9.09	6.50	28.63	51.00	11.97	2.86	1.89	5.00	57.50	65.00	1	17	11	3	1	4.48	CS	15.71	903.33				
R0227	4.52	22	31	59.41	15.00	8.99	5.00	0.00	0.00	23.54	0.00	0.00	0.00	5.00	20.00	7	3	0	3	1	2.10	NH					4.52	22.60
R0228	9.93	89	10	2.26	1.11	6.03	4.44	9.53	16.67	24.42	9.43	7.32	16.67	21.11	38.89	6	10	52	3	1	3.47	PS					9.93	209.62
R0229	7.95	88	31	60.09	18.75	26.34	20.00	5.00	6.25	17.52	2.44	0.00	1.25	26.25	46.25	2	21	7	3	1	3.37	PS					7.95	208.69
R0230	14.78	88	10	38.00	9.50	9.62	6.50	6.97	11.50	41.45	14.23	2.58	13.50	18.00	41.00	2	13	50	3	1	3.32	PS					14.78	266.04
R0231	3.16	83	10	6.03	1.58	2.62	2.11	20.22	36.84	8.15	10.02	10.66	23.16	38.95	63.68	2	3	48	3	1	4.14	CS	3.16	123.08				
R0235	8.77	76	25	31.19	5.56	13.69	10.00	37.72	65.56	4.16	0.00	1.02	2.22	75.56	83.33	6	16	2	3	1	4.29	PS			8.77	662.66		
R0237	25.05	81	13	24.14	7.37	7.34	5.26	11.92	20.53	23.15	12.35	3.22	15.26	25.79	48.42	2	17	45	3	1	3.82	PS					25.05	646.04
R0238	16.96	88	31	24.91	7.00	10.16	7.50	14.48	25.50	33.08	12.16	7.36	21.00	33.00	61.00	2	14	44	3	1	4.08	PS					16.96	559.68
R0242	0.19	93	31	27.98	8.00	13.24	10.50	23.18	38.50	14.04	14.10	3.93	15.50	49.00	72.50	7	6	33	3	1	3.82	PS			0.19	9.31		
S0104	1.51	53	21	18.25	5.00	2.28	1.50	11.94	24.00	2.24	1.15	1.29	4.50	25.50	35.00	1	31	15	3	1	4.09	PS					1.51	38.51
S0106	2.49	27	31	25.61	6.25	3.26	2.50	0.71	1.25	0.00	0.00	0.00	0.00	3.75	10.00	1	58	0	3	1	2.91	NH					2.49	9.34
S0108	11.63	72	31	18.61	5.50	17.90	13.00	16.73	30.50	5.67	3.45	1.83	5.50	43.50	54.50	1	25	13	3	1	4.43	PS					11.63	505.91
S0118	0.52	45	31	12.56	4.50	18.98	13.00	17.04	29.50	2.31	1.53	2.09	4.00	42.50	51.00	1	12	9	3	1	4.12	PS					0.52	22.10
	232.04																						**19.81**	**1,066.36**	**15.25**	**926.72**	**149.09**	**4,257.87**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
AOB10	2009	72017	Vehicle Recovery Course					0.39	10.34
AOB10	2009	65554	Construct Training Area Roads, Paved					2.64	69.96
pp1024*	2009	72017	Vehicle Recovery Course					0.24	0.00
R0127	2009	72017	Vehicle Recovery Course					0.01	0.30
R0130	2009	72017	Vehicle Recovery Course					2.08	145.60
R0131	2009	72017	Vehicle Recovery Course					13.70	424.70
R0133	2009	72017	Vehicle Recovery Course			4.79	194.00		
R0133	2009	65554	Construct Training Area Roads, Paved			1.50	60.75		
R0226	2009	67457	Infrastructure Support - Utilities	0.89	51.18				
R0226	2009	65554	Construct Training Area Roads, Paved	0.34	19.55				
R0230	2009	64797	Access Road for Drivers Training Area					0.58	10.44
R0235	2009	65554	Construct Training Area Roads, Paved			0.39	29.47		
R0235	2009	67457	Infrastructure Support - Utilities			1.08	81.60		
R0237	2009	64797	Access Road for Drivers Training Area					2.85	73.50
R0237	2009	67457	Infrastructure Support - Utilities					1.06	27.34
R0238	2009	64797	Access Road for Drivers Training Area					2.68	88.44
R0238	2009	67457	Infrastructure Support - Utilities					0.88	29.04
			TOTAL REMOVALS	**1.23**	**70.73**	**7.76**	**365.82**	**27.11**	**879.66**

POST-PROJECT	**2009**		**non-contiguous habitat**		**2009 TOTAL**	
	Acres	**BA**	**Acres**	**BA**	**Acres**	**BA**
Suitable Habitat	**18.58**	**995.63**	**0.00**	**0.00**	**18.58**	**995.63**
Potentially Suitable Habitat	**7.49**	**560.90**	**0.00**	**0.00**	**7.49**	**560.90**
Future Potential Habitat	**121.98**	**3,378.21**	**13.74**	**364.11**	**108.24**	**3,014.10**
TOTAL	**148.05**	**4,934.74**	**13.74**	**364.11**	**134.31**	**4,570.63**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine Hardwood
13U = Loblolly Pine Hardwood Underplanted
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
26 = Mixed Pine-Longleaf
26U = Mixed Pine-Longleaf Underplanted
31 = Loblolly Pine
42** = Upland Hardwood-Yellow Pine (managed for hardwoods)

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Stand AOB10 will be non-contiguous as a result of project impacts and cannot be counted towards the available foraging habitat for the partition.

Appendix Table H-287. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **S01-01, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgi

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
EE0111	17.18	108	31	31.80	8.50	17.52	12.50	11.69	21.50	34.09	5.01	1.85	6.50	34.00	49.00	2	7	19	3	1	1	17.18	584.12				
EE0201	0.87	85	31	3.98	1.00	5.95	4.00	11.54	26.50	5.18	1.20	0.45	1.50	30.50	33.00	1	36	9	3	1	1	0.87	26.54				
EE0207	1.54	57	31	26.85	7.50	12.26	9.00	11.66	22.00	25.81	8.50	4.56	13.50	31.00	52.00	7	9	35	3	1	0			1.54	47.74		
EE0213	0.74	73	31	9.37	3.50	9.06	6.50	13.39	26.50	7.86	7.79	2.80	10.00	33.00	46.50	8	25	32	3	1	0			0.74	24.42		
S0120	1.87	68	31	4.04	1.50	22.82	16.50	16.06	25.00	7.15	1.19	0.45	2.00	41.50	45.00	2	16	4	3	1	1	0.00	0.00				
S0123	3.48	103	21	10.92	3.00	1.85	1.50	27.25	52.00	3.00	0.00	1.16	1.50	53.50	58.00	1	20	4	3	1	1	3.48	186.18				
S0125	45.08	86	31	22.78	6.19	16.22	11.90	13.73	26.67	2.20	1.26	0.00	0.95	38.57	45.71	3	20	4	3	1	1	45.08	1,738.74				
S0301	58.34	91	31	10.94	3.00	11.97	9.50	16.75	29.00	1.87	0.00	0.75	1.50	38.50	43.00	6	27	3	3	1	0			58.34	2,246.09		
	129.10																					**66.61**	**2,535.58**	**60.62**	**2,318.25**	**0.00**	**0.00**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
S0123	2009	69358	Range Access Road - Good Hope MTA	0.16	8.56				
S0125	2009	69358	Range Access Road - Good Hope MTA	0.64	24.68				
			TOTAL REMOVALS	**0.80**	**33.24**	**0.00**	**0.00**	**0.00**	**0.00**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**65.81**	**2,502.34**
Potentially Suitable Habitat	**60.62**	**2,318.25**
Future Potential Habitat	**0.00**	**0.00**
TOTAL	**126.43**	**4,820.59**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
31 = Loblolly Pine

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-288. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **S01-01, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
EE0111	17.18	108	31	31.80	8.50	17.52	12.50	11.69	21.50	34.09	5.01	1.85	6.50	34.00	49.00	2	7	19	3	1	3.94	PS					17.18	584.12
EE0201	0.87	85	31	3.98	1.00	5.95	4.00	11.54	26.50	5.18	1.20	0.45	1.50	30.50	33.00	1	36	9	3	1	4.34	PS					0.87	26.54
EE0207	1.54	57	31	26.85	7.50	12.26	9.00	11.66	22.00	25.81	8.50	4.56	13.50	31.00	52.00	7	9	35	3	1	3.28	PS					1.54	47.74
EE0213	0.74	73	31	9.37	3.50	9.06	6.50	13.39	26.50	7.86	7.79	2.80	10.00	33.00	46.50	8	25	32	3	1	3.85	PS					0.74	24.42
S0120	1.87	68	31	4.04	1.50	22.82	16.50	16.06	25.00	7.15	1.19	0.45	2.00	41.50	45.00	2	16	4	3	1	4.39	PS					0.00	0.00
S0123	3.48	103	21	10.92	3.00	1.85	1.50	27.25	52.00	3.00	0.00	1.16	1.50	53.50	58.00	1	20	4	3	1	4.65	CS	3.48	186.18				
S0125	45.08	86	31	22.78	6.19	16.22	11.90	13.73	26.67	2.20	1.26	0.00	0.95	38.57	45.71	3	20	4	3	1	4.33	PS					45.08	1,738.74
S0301	58.34	91	31	10.94	3.00	11.97	9.50	16.75	29.00	1.87	0.00	0.75	1.50	38.50	43.00	6	27	3	3	1	4.22	PS					58.34	2,246.09
	129.10																						**3.48**	**186.18**	**0.00**	**0.00**	**123.75**	**4,667.65**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
S0123	2009	69358	Range Access Road - Good Hope MTA	0.16	8.56				
S0125	2009	69358	Range Access Road - Good Hope MTA					0.64	24.68
			TOTAL REMOVALS	**0.16**	**8.56**	**0.00**	**0.00**	**0.64**	**24.68**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**3.32**	**177.62**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**123.11**	**4,642.97**
TOTAL	**126.43**	**4,820.59**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=mon-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
31 = Loblolly Pine

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-289. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **S02-01F**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgi

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
pp636*	0.11	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.11	0.00
pp637*	0.22	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.22	0.00
R0246	0.02	93	31	72.84	21.00	28.71	21.00	15.97	22.50	7.54	1.52	1.35	3.00	43.50	67.50	2	17	6	3	1	0			0.00	0.00		
S0117	1.31	94	21	3.61	1.50	6.07	4.50	24.16	47.00	5.25	0.86	1.88	4.00	51.50	57.00	2	18	8	3	1	1	1.31	67.47				
S0118	24.97	45	31	12.56	4.50	18.98	13.00	17.04	29.50	2.31	1.53	2.09	4.00	42.50	51.00	1	12	9	3	1	1	24.97	1,061.23				
S0120	3.90	68	31	4.04	1.50	22.82	16.50	16.06	25.00	7.15	1.19	0.45	2.00	41.50	45.00	2	16	4	3	1	1	3.90	161.85				
S0122	26.59	64	31	21.44	6.00	23.00	16.50	14.40	21.00	6.81	1.09	0.83	2.50	37.50	46.00	1	26	5	3	1	1	26.59	997.13				
S0123	38.77	103	21	10.92	3.00	1.85	1.50	27.25	52.00	3.00	0.00	1.16	1.50	53.50	58.00	1	20	4	3	1	1	38.77	2,074.20				
S0125	1.73	86	31	22.78	6.19	16.22	11.90	13.73	26.67	2.20	1.26	0.00	0.95	38.57	45.71	3	20	4	3	1	1	1.73	66.73				
S0202	11.59	87	21	2.61	1.00	3.85	3.00	9.91	22.50	39.78	11.00	8.17	21.00	25.50	47.50	1	23	58	3	1	0					11.59	295.55
S0203	33.60	69	31	35.85	11.00	8.81	6.00	4.05	8.00	1.40	4.04	0.37	3.50	14.00	28.50	1	32	26	3	1	0					33.60	470.40
S0204	20.54	79	21	6.98	2.00	11.98	9.50	32.74	57.00	0.00	0.00	0.00	0.00	66.50	68.50	2	20	0	3	1	1	20.54	1,365.91				
S0207	2.89	71	64**	4.31	1.43	10.48	7.14	5.48	7.14	20.80	32.85	14.43	44.29	14.29	60.00	2	7	75	3	1	0					0.00	0.00
S0301	2.78	91	31	10.94	3.00	11.97	9.50	16.75	29.00	1.87	0.00	0.75	1.50	38.50	43.00	6	27	3	3	1	0			2.78	107.03		
	169.02																					**117.81**	**5,794.52**	**2.78**	**107.03**	**45.52**	**765.95**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
S0120	2009	69358	Range Access Road - Good Hope MTA	2.13	88.40				
S0122	2009	69358	Range Access Road - Good Hope MTA	2.35	88.13				
S0123	2009	69358	Range Access Road - Good Hope MTA	1.36	72.76				
S0125	2009	69358	Range Access Road - Good Hope MTA	0.96	37.03				
S0203	2009	67457	Infrastructure Support - Utilities					0.99	13.86
			TOTAL REMOVALS	**6.80**	**286.32**	**0.00**	**0.00**	**0.99**	**13.86**

POST-PROJECT

	2009 Acres	2009 BA
Suitable Habitat	**111.01**	**5,508.20**
Potentially Suitable Habitat	**2.78**	**107.03**
Future Potential Habitat	**44.53**	**752.09**
TOTAL	**158.32**	**6,367.32**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
64** = Laurel Oak-Willow Oak

* Note: No pine data was collected for pine plantation stands less than 30 years old.
Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-290. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **S02-01R, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
pp636*	0.11	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.11	0.00
pp637*	0.22	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.22	0.00
R0246	0.02	93	31	72.84	21.00	28.71	21.00	15.97	22.50	7.54	1.52	1.35	3.00	43.50	67.50	2	17	6	3	1	4.29	PS					0.00	0.00
S0117	1.31	94	21	3.61	1.50	6.07	4.50	24.16	47.00	5.25	0.86	1.88	4.00	51.50	57.00	2	18	8	3	1	4.55	CS	1.31	67.47				
S0118	24.97	45	31	12.56	4.50	18.98	13.00	17.04	29.50	2.31	1.53	2.09	4.00	42.50	51.00	1	12	9	3	1	4.12	PS					24.97	1,061.23
S0120	3.90	68	31	4.04	1.50	22.82	16.50	16.06	25.00	7.15	1.19	0.45	2.00	41.50	45.00	2	16	4	3	1	4.39	PS					3.90	161.85
S0122	26.59	64	31	21.44	6.00	23.00	16.50	14.40	21.00	6.81	1.09	0.83	2.50	37.50	46.00	1	26	5	3	1	4.43	PS					26.59	997.13
S0123	38.77	103	21	10.92	3.00	1.85	1.50	27.25	52.00	3.00	0.00	1.16	1.50	53.50	58.00	1	20	4	3	1	4.65	CS	38.77	2,074.20				
S0125	1.73	86	31	22.78	6.19	16.22	11.90	13.73	26.67	2.20	1.26	0.00	0.95	38.57	45.71	3	20	4	3	1	4.33	PS					1.73	66.73
S0202	11.59	87	21	2.61	1.00	3.85	3.00	9.91	22.50	39.78	11.00	8.17	21.00	25.50	47.50	1	23	58	3	1	3.94	PS					11.59	295.55
S0203	33.60	69	31	35.85	11.00	8.81	6.00	4.05	8.00	1.40	4.04	0.37	3.50	14.00	28.50	1	32	26	3	1	3.27	PS					33.60	470.40
S0204	20.54	79	21	6.98	2.00	11.98	9.50	32.74	57.00	0.00	0.00	0.00	0.00	66.50	68.50	2	20	0	3	1	4.65	CS	20.54	1,365.91				
S0207	2.89	71	64**	4.31	1.43	10.48	7.14	5.48	7.14	20.80	32.85	14.43	44.29	14.29	60.00	2	7	75	3	1	3.12	PS					0.00	0.00
S0301	2.78	91	31	10.94	3.00	11.97	9.50	16.75	29.00	1.87	0.00	0.75	1.50	38.50	43.00	6	27	3	3	1	4.22	PS					2.78	107.03
	169.02																						**60.62**	**3,507.58**	**0.00**	**0.00**	**105.49**	**3,159.92**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
S0120	2009	69358	Range Access Road - Good Hope MTA					2.13	88.40
S0122	2009	69358	Range Access Road - Good Hope MTA					2.35	88.13
S0123	2009	69358	Range Access Road - Good Hope MTA					1.36	72.76
S0125	2009	69358	Range Access Road - Good Hope MTA					0.96	37.03
S0203	2009	67457	Infrastructure Support - Utilities					0.99	13.86
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**7.79**	**300.18**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**60.62**	**3,507.58**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**97.70**	**2,859.74**
TOTAL	**158.32**	**6,367.32**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
31 = Loblolly Pine
64** = Laurel Oak-Willow Oak

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-291. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **S03-01F**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
C0105	4.18	72	31	9.85	3.00	9.37	6.50	19.28	36.50	13.87	4.72	1.42	6.00	43.00	52.00	6	31	18	3	1	0			4.18	179.74		
EE0213	9.08	73	31	9.37	3.50	9.06	6.50	13.39	26.50	7.86	7.79	2.80	10.00	33.00	46.50	8	25	32	3	1	0			9.08	299.64		
pp637*	0.01	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					0.01	0.00
pp741*	1.41	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.41	0.00
S0203	4.85	69	31	35.85	11.00	8.81	6.00	4.05	8.00	1.40	4.04	0.37	3.50	14.00	28.50	1	32	26	3	1	0					4.85	67.90
S0204	1.18	79	21	6.98	2.00	11.98	9.50	32.74	57.00	0.00	0.00	0.00	0.00	66.50	68.50	2	20	0	3	1	1	1.18	78.47				
S0207	4.18	71	64**	4.31	1.43	10.48	7.14	5.48	7.14	20.80	32.85	14.43	44.29	14.29	60.00	2	7	75	3	1	0					0.00	0.00
S0209	33.24	58	26	8.42	2.50	9.66	7.00	12.33	21.50	10.30	1.50	3.03	6.00	28.50	37.00	6	23	17	3	1	0					33.24	947.34
S0210	3.37	69	31	31.33	8.50	14.70	11.00	16.59	27.00	0.00	2.18	1.67	3.50	38.00	50.00	6	29	11	3	1	0			3.37	128.06		
S0301	28.33	91	31	10.94	3.00	11.97	9.50	16.75	29.00	1.87	0.00	0.75	1.50	38.50	43.00	6	27	3	3	1	0			28.33	1,090.71		
S0303	60.52	62	31	17.93	4.50	8.57	6.50	12.82	20.50	0.00	1.25	0.73	2.00	27.00	33.50	2	31	8	3	1	0					60.52	1,634.04
	150.35																					**1.18**	**78.47**	**44.96**	**1,698.15**	**100.03**	**2,649.28**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
C0105	2009	67457	Infrastructure Support - Utilities			1.20	51.60		
			2009 SUB-TOTAL	**0.00**	**0.00**	**1.20**	**51.60**	**0.00**	**0.00**
C0105	2010	65557	Repair Existing Training Area Roads, Phase 1			0.92	39.56		
S0209	2010	65557	Repair Existing Training Area Roads, Phase 1					0.68	19.38
S0303	2010	65557	Repair Existing Training Area Roads, Phase 1					2.42	65.34
			2010 SUB-TOTAL	**0.00**	**0.00**	**0.92**	**39.56**	**3.10**	**84.72**
			TOTAL REMOVALS	**0.00**	**0.00**	**2.12**	**91.16**	**3.10**	**84.72**

POST-PROJECT

	2009 Acres	2009 BA	2010 Acres	2010 BA
Suitable Habitat	**1.18**	**78.47**	**1.18**	**78.47**
Potentially Suitable Habitat	**43.76**	**1,646.55**	**42.84**	**1,606.99**
Future Potential Habitat	**100.03**	**2,649.28**	**96.93**	**2,564.56**
TOTAL	**144.97**	**4,374.30**	**140.95**	**4,250.02**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
64** = Laurel Oak-Willow Oak (managed for hardwoods)

*** Note**: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-292. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **S03-01R, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
C0105	4.18	72	31	9.85	3.00	9.37	6.50	19.28	36.50	13.87	4.72	1.42	6.00	43.00	52.00	6	31	18	3	1	4.39	PS			4.18	179.74		
EE0213	9.08	73	31	9.37	3.50	9.06	6.50	13.39	26.50	7.86	7.79	2.80	10.00	33.00	46.50	8	25	32	3	1	3.85	PS					9.08	299.64
pp637*	0.01	6	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					0.01	0.00
pp741*	1.41	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.41	0.00
S0203	4.85	69	31	35.85	11.00	8.81	6.00	4.05	8.00	1.40	4.04	0.37	3.50	14.00	28.50	1	32	26	3	1	3.27	PS					4.85	67.90
S0204	1.18	79	21	6.98	2.00	11.98	9.50	32.74	57.00	0.00	0.00	0.00	0.00	66.50	68.50	2	20	0	3	1	4.65	CS	1.18	78.47				
S0207	4.18	71	64**	4.31	1.43	10.48	7.14	5.48	7.14	20.80	32.85	14.43	44.29	14.29	60.00	2	7	75	3	1	3.12	PS					0.00	0.00
S0209	33.24	58	26	8.42	2.50	9.66	7.00	12.33	21.50	10.30	1.50	3.03	6.00	28.50	37.00	6	23	17	3	1	3.75	PS					33.24	947.34
S0210	3.37	69	31	31.33	8.50	14.70	11.00	16.59	27.00	0.00	2.18	1.67	3.50	38.00	50.00	6	29	11	3	1	4.13	PS					3.37	128.06
S0301	28.33	91	31	10.94	3.00	11.97	9.50	16.75	29.00	1.87	0.00	0.75	1.50	38.50	43.00	6	27	3	3	1	4.22	PS					28.33	1,090.71
S0303	60.52	62	31	17.93	4.50	8.57	6.50	12.82	20.50	0.00	1.25	0.73	2.00	27.00	33.50	2	31	8	3	1	4.34	PS					60.52	1,634.04
	150.35																						**1.18**	**78.47**	**4.18**	**179.74**	**140.81**	**4,167.69**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
C0105	2009	67457	Infrastructure Support - Utilities			1.20	51.60		
			2009 SUB-TOTAL	**0.00**	**0.00**	**1.20**	**51.60**	**0.00**	**0.00**
C0105	2010	65557	Repair Existing Training Area Roads, Phase 1			0.92	39.56		
S0209	2010	65557	Repair Existing Training Area Roads, Phase 1					0.68	19.38
S0303	2010	65557	Repair Existing Training Area Roads, Phase 1					2.42	65.34
			2010 SUB-TOTAL	**0.00**	**0.00**	**0.92**	**39.56**	**3.10**	**84.72**
			TOTAL REMOVALS	**0.00**	**0.00**	**2.12**	**91.16**	**3.10**	**84.72**

POST-PROJECT	**2009**		**2010**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**1.18**	**78.47**	**1.18**	**78.47**
Potentially Suitable Habitat	**2.98**	**128.14**	**2.06**	**88.58**
Future Potential Habitat	**140.81**	**4,167.69**	**137.71**	**4,082.97**
TOTAL	**144.97**	**4,374.30**	**140.95**	**4,250.02**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
64** = Laurel Oak-Willow Oak (managed for hardwoods)

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-293. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **SHC-02**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
SHC10	15.31	76	31	25.77	5.50	4.95	4.00	12.00	23.50	15.49	13.07	6.34	20.00	27.50	53.00	7	19	53	3	1	0					15.31	421.03
SHC11	11.19	76	26	28.07	6.50	11.19	8.00	15.52	30.00	7.83	2.57	1.68	4.50	38.00	49.00	2	19	14	3	1	1	11.19	425.22				
SHC12	1.30	50	13	39.10	15.56	77.90	53.33	18.88	24.44	8.70	13.69	3.01	13.33	77.78	106.67	7	26	15	3	1	0			1.30	101.11		
SHC25	14.67	80	10	22.48	6.00	9.22	6.00	16.98	34.00	37.13	9.90	7.58	19.50	40.00	65.50	7	17	40	0	0	0			14.67	586.80		
SHC26	34.05	51	31	24.88	6.92	9.63	6.92	22.95	41.54	13.54	5.02	2.12	8.46	48.46	63.85	8	25	18	3	1	0			34.05	1,650.06		
SHC27	36.38	83	26	31.65	9.50	10.32	8.00	19.48	35.00	2.65	1.75	0.35	2.50	43.00	55.00	5	27	7	3	1	0			36.38	1,564.34		
SHC29	1.77	50	13	34.39	12.00	16.45	12.00	9.98	14.00	0.00	0.00	1.61	2.00	26.00	40.00	7	22	6	3	1	0					1.77	46.02
SHC40	15.30	96	31	37.45	13.00	45.25	30.50	10.24	14.00	8.95	0.53	0.72	2.00	44.50	59.50	1	30	2	3	1	1	15.30	680.85				
SHC41	24.91	92	31	50.97	14.38	4.43	3.13	9.88	21.25	5.95	1.96	2.17	5.63	24.38	44.38	6	11	22	3	1	0					24.91	607.31
SHC52	3.70	11	31	194.74	47.50	28.14	17.50	0.00	0.00	26.12	9.56	3.52	10.00	17.50	75.00	5	3	32	3	1	0					3.70	64.75
SHC55	13.44	86	21	38.42	8.95	4.68	3.16	8.86	20.53	0.00	0.00	0.00	0.00	23.68	32.63	1	62	0	3	1	0					13.44	318.26
SHC66	40.81	99	13	12.13	4.62	12.52	9.23	12.76	22.31	9.24	7.88	4.24	13.08	31.54	49.23	6	8	32	0	0	0			40.81	1,287.15		
	212.83																					**26.49**	**1,106.07**	**127.21**	**5,189.46**	**59.13**	**1,457.37**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
SHC29	2010	70027/72457	Classrooms with BN Dining Facilities (GTA)					1.09	28.34
SHC41	2010	69150	Classrooms and Dual BN Dining Facilities (GTA)					0.15	3.66
SHC66	2010	69150	Classrooms and Dual BN Dining Facilities (GTA)			0.45	14.19		
			2010 SUB-TOTAL	**0.00**	**0.00**	**0.45**	**14.19**	**1.24**	**32.00**
SHC41	2012	65246	Recreation Centers, Sand Hill					0.02	0.49
SHC55	2012	65246	Recreation Centers, Sand Hill					1.87	44.28
SHC66	2012	69745	Training Barracks Complex (GTA)			0.07	2.21		
			2012 SUB-TOTAL	**0.00**	**0.00**	**0.07**	**2.21**	**1.89**	**44.77**
			TOTAL REMOVALS	**0.00**	**0.00**	**0.52**	**16.40**	**3.13**	**76.77**

POST-PROJECT	**2010**		**2012**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**26.49**	**1,106.07**	**26.49**	**1,106.07**
Potentially Suitable Habitat	**126.76**	**5,175.27**	**126.69**	**5,173.06**
Future Potential Habitat	**57.89**	**1,425.37**	**56.00**	**1,380.60**
TOTAL	**211.14**	**7,706.71**	**209.18**	**7,659.73**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

Appendix Table H-294. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **SHC-02, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA ≥ 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
SHC10	15.31	76	31	25.77	5.50	4.95	4.00	12.00	23.50	15.49	13.07	6.34	20.00	27.50	53.00	7	19	53	3	1	3.53	PS					15.31	421.03
SHC11	11.19	76	26	28.07	6.50	11.19	8.00	15.52	30.00	7.83	2.57	1.68	4.50	38.00	49.00	2	19	14	3	1	4.25	PS					11.19	425.22
SHC12	1.30	50	13	39.10	15.56	77.90	53.33	18.88	24.44	8.70	13.69	3.01	13.33	77.78	106.67	7	26	15	3	1	3.92	PS					1.30	101.11
SHC25	14.67	80	10	22.48	6.00	9.22	6.00	16.98	34.00	37.13	9.90	7.58	19.50	40.00	65.50	7	17	40	0	0	3.63	PS					14.67	586.80
SHC26	34.05	51	31	24.88	6.92	9.63	6.92	22.95	41.54	13.54	5.02	2.12	8.46	48.46	63.85	8	25	18	3	1	4.03	PS					34.05	1,650.06
SHC27	36.38	83	26	31.65	9.50	10.32	8.00	19.48	35.00	2.65	1.75	0.35	2.50	43.00	55.00	5	27	7	3	1	4.39	PS			36.38	1,564.34		
SHC29	1.77	50	13	34.39	12.00	16.45	12.00	9.98	14.00	0.00	0.00	1.61	2.00	26.00	40.00	7	22	6	3	1	3.37	PS					1.77	46.02
SHC40	15.30	96	31	37.45	13.00	45.25	30.50	10.24	14.00	8.95	0.53	0.72	2.00	44.50	59.50	1	30	2	3	1	4.00	PS					15.30	680.85
SHC41	24.91	92	31	50.97	14.38	4.43	3.13	9.88	21.25	5.95	1.96	2.17	5.63	24.38	44.38	6	11	22	3	1	3.66	PS					24.91	607.31
SHC52	3.70	11	31	194.74	47.50	28.14	17.50	0.00	0.00	26.12	9.56	3.52	10.00	17.50	75.00	5	3	32	3	1	1.89	NH					3.70	64.75
SHC55	13.44	86	21	38.42	8.95	4.68	3.16	8.86	20.53	0.00	0.00	0.00	0.00	23.68	32.63	1	62	0	3	1	4.20	PS					13.44	318.26
SHC66	40.81	99	13	12.13	4.62	12.52	9.23	12.76	22.31	9.24	7.88	4.24	13.08	31.54	49.23	6	8	32	0	0	3.41	PS					40.81	1,287.15
	212.83																						**0.00**	**0.00**	**36.38**	**1,564.34**	**176.45**	**6,188.56**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
SHC29	2010	70027/72457	Classrooms with BN Dining Facilities (GTA)					1.09	28.34
SHC41	2010	69150	Classrooms and Dual BN Dining Facilities (GTA)					0.15	3.66
SHC66	2010	69150	Classrooms and Dual BN Dining Facilities (GTA)					0.45	14.19
			2009 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**1.69**	**46.19**
SHC41	2012	65246	Recreation Centers, Sand Hill					0.02	0.49
SHC55	2012	65246	Recreation Centers, Sand Hill					1.87	44.28
SHC66	2012	69745	Training Barracks Complex (GTA)					0.07	2.21
			2010 SUB-TOTAL	**0.00**	**0.00**	**0.00**	**0.00**	**1.96**	**46.98**
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**3.65**	**93.17**

POST-PROJECT	**2010**		**2012**	
	Acres	**BA**	**Acres**	**BA**
Suitable Habitat	**0.00**	**0.00**	**0.00**	**0.00**
Potentially Suitable Habitat	**36.38**	**1,564.34**	**36.38**	**1,564.34**
Future Potential Habitat	**174.76**	**6,142.37**	**172.80**	**6,095.39**
TOTAL	**211.14**	**7,706.71**	**209.18**	**7,659.73**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
26 = Mixed Pine-Longleaf
31 = Loblolly Pine

Appendix Table H-295. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **T02-01**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
J0218	1.49	40	31	18.17	5.50	14.66	9.50	11.84	17.50	5.56	1.15	2.11	5.50	27.00	38.00	1	17	11	3	1	0					1.49	40.23
J0218	13.97	40	31U	18.17	5.50	14.66	9.50	11.84	17.50	5.56	1.15	2.11	5.50	27.00	38.00	1	17	11	3	1	0					13.97	377.19
J0326	0.62	96	25	59.37	15.00	24.78	16.00	13.63	20.50	22.64	5.28	2.64	8.50	36.50	60.00	1	18	17	3	1	1	0.62	22.63				
J0329	28.65	46	25	47.54	15.00	30.67	21.00	9.80	15.50	11.95	1.46	0.39	2.00	36.50	53.50	2	40	4	3	1	1	28.65	1,045.73				
pp242*	6.27	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					6.27	0.00
pp683*	1.94	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.94	0.00
pp933*	1.31	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					1.31	0.00
T0204	1.01	96	10	4.77	2.00	10.94	7.00	10.04	21.50	27.16	22.17	13.12	37.50	28.50	68.00	7	17	63	3	1	0					1.01	28.79
T0206	6.99	85	31	6.06	2.86	8.29	5.71	2.31	2.86	0.00	6.05	2.63	8.57	8.57	20.00	2	17	45	3	1	0					6.99	59.90
T0209	4.39	63	21	38.25	10.50	21.12	14.00	5.08	7.00	3.67	2.28	2.55	6.00	21.00	37.50	2	28	16	3	1	0					4.39	92.19
T0210	56.56	56	21	36.26	9.50	16.50	11.50	7.63	12.00	9.09	5.87	2.05	7.50	23.50	40.50	1	31	25	3	1	0					56.56	1,329.16
T0214	7.79	73	21	23.38	6.00	2.72	2.00	5.69	10.00	21.45	6.89	5.72	14.50	12.00	32.50	5	24	60	3	1	0					7.79	93.48
T0216	10.89	67	21	54.42	14.00	19.87	13.50	8.28	12.00	11.74	1.77	0.49	2.50	25.50	42.00	1	28	7	3	1	0					10.89	277.70
T0218	27.71	67	21	29.02	8.00	17.87	12.00	6.58	10.50	20.59	3.41	5.44	12.50	22.50	43.00	3	26	27	3	2	0					27.71	623.48
T0226	5.01	62	11	39.38	11.50	14.62	9.50	5.11	7.00	20.54	6.13	4.01	11.00	16.50	39.00	5	29	34	3	2	0					5.01	82.67
	174.60																					**29.27**	**1,068.36**	**0.00**	**0.00**	**145.33**	**3,004.79**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
J0329	2009	65554	Construct Training Area Roads, Paved	5.07	185.06				
pp242*	2009	65554	Construct Training Area Roads, Paved					1.05	0.00
T0204	2009	65554	Construct Training Area Roads, Paved					0.53	15.11
			TOTAL REMOVALS	**5.07**	**185.06**	**0.00**	**0.00**	**1.58**	**15.11**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**24.20**	**883.30**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**143.75**	**2,989.68**
TOTAL	**167.95**	**3,872.98**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Hardwood Midstory
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Type Burn
0=no data available
1=non-growing season
2=growing season

Forest Type:
10 = Yellow Pine-Upland Hardwood
11 = Longleaf Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine
31U = Loblolly Pine Underplanted

Stand Score
0=Unsuitable
1=Suitable

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-296. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **T02-01, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
J0218	1.49	40	31	18.17	5.50	14.66	9.50	11.84	17.50	5.56	1.15	2.11	5.50	27.00	38.00	1	17	11	3	1	3.66	PS					1.49	40.23
J0218	13.97	40	31U	18.17	5.50	14.66	9.50	11.84	17.50	5.56	1.15	2.11	5.50	27.00	38.00	1	17	11	3	1	3.66	PS					13.97	377.19
J0326	0.62	96	25	59.37	15.00	24.78	16.00	13.63	20.50	22.64	5.28	2.64	8.50	36.50	60.00	1	18	17	3	1	4.14	PS					0.62	22.63
J0329	28.65	46	25	47.54	15.00	30.67	21.00	9.80	15.50	11.95	1.46	0.39	2.00	36.50	53.50	2	40	4	3	1	3.90	PS					28.65	1,045.73
pp242*	6.27	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					6.27	0.00
pp683*	1.94	5	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.94	0.00
pp933*	1.31	2	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					1.31	0.00
T0204	1.01	96	10	4.77	2.00	10.94	7.00	10.04	21.50	27.16	22.17	13.12	37.50	28.50	68.00	7	17	63	3	1	3.55	PS					1.01	28.79
T0206	6.99	85	31	6.06	2.86	8.29	5.71	2.31	2.86	0.00	6.05	2.63	8.57	8.57	20.00	2	17	45	3	1	2.93	PS					6.99	59.90
T0209	4.39	63	21	38.25	10.50	21.12	14.00	5.08	7.00	3.67	2.28	2.55	6.00	21.00	37.50	2	28	16	3	1	3.49	PS					4.39	92.19
T0210	56.56	56	21	36.26	9.50	16.50	11.50	7.63	12.00	9.09	5.87	2.05	7.50	23.50	40.50	1	31	25	3	1	3.49	PS					56.56	1,329.16
T0214	7.79	73	21	23.38	6.00	2.72	2.00	5.69	10.00	21.45	6.89	5.72	14.50	12.00	32.50	5	24	60	3	1	3.22	PS					7.79	93.48
T0216	10.89	67	21	54.42	14.00	19.87	13.50	8.28	12.00	11.74	1.77	0.49	2.50	25.50	42.00	1	28	7	3	1	3.68	PS					10.89	277.70
T0218	27.71	67	21	29.02	8.00	17.87	12.00	6.58	10.50	20.59	3.41	5.44	12.50	22.50	43.00	3	26	27	3	2	3.70	PS					27.71	623.48
T0226	5.01	62	11	39.38	11.50	14.62	9.50	5.11	7.00	20.54	6.13	4.01	11.00	16.50	39.00	5	29	34	3	2	3.18	PS					5.01	82.67
	174.60																						**0.00**	**0.00**	**0.00**	**0.00**	**174.60**	**4,073.15**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
J0329	2009	65554	Construct Training Area Roads, Paved					5.07	185.06
pp242*	2009	65554	Construct Training Area Roads, Paved					1.05	0.00
T0204	2009	65554	Construct Training Area Roads, Paved					0.53	15.11
			TOTAL REMOVALS	**0.00**	**0.00**	**0.00**	**0.00**	**6.65**	**200.17**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**0.00**	**0.00**
Future Potential Habitat	**167.95**	**3,872.98**
TOTAL	**167.95**	**3,872.98**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn
0=no data available
1=non-growing season
2=growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
10 = Yellow Pine-Upland Hardwood
11 = Longleaf Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
25 = Mixed Pine
31 = Loblolly Pine
31U = Loblolly Pine Underplanted

* Note: No pine data was collected for pine plantation stands less than 30 years old.

Appendix Table H-297. Red-cockaded woodpecker foraging habitat totals and project removals using the **Standard for Managed Stability** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **T02-02F**, **Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgi

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4-10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height, Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
pp243*	3.42	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					3.42	0.00
pp244*	4.00	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0					4.00	0.00
R0219	0.01	89	26	43.79	13.16	17.03	11.58	17.60	28.95	15.84	8.35	5.97	15.26	40.53	68.95	1	6	29	3	1	1	0.00	0.00				
T0214	21.10	73	21	23.38	6.00	2.72	2.00	5.69	10.00	21.45	6.89	5.72	14.50	12.00	32.50	5	24	60	3	1	0					21.10	253.20
T0215	8.49	94	31	80.54	21.25	20.36	13.75	3.17	5.00	13.80	8.32	2.74	10.00	18.75	50.00	5	19	32	3	1	0					8.49	159.19
T0216	8.32	67	21	54.42	14.00	19.87	13.50	8.28	12.00	11.74	1.77	0.49	2.50	25.50	42.00	1	28	7	3	1	0					8.32	212.16
T0218	2.45	67	21	29.02	8.00	17.87	12.00	6.58	10.50	20.59	3.41	5.44	12.50	22.50	43.00	3	26	27	3	2	0					0.00	0.00
T0220	50.40	109	13	0.00	0.00	4.24	3.50	22.11	46.00	99.66	21.73	7.04	28.50	49.50	78.00	5	3	52	3	2	0			50.40	2,494.80		
T0224	7.33	57	21	13.12	5.71	6.12	4.29	16.42	30.00	0.00	0.00	3.63	5.71	34.29	45.71	5	21	14	3	2	0			7.33	251.35		
T0225	10.48	89	21	42.28	14.00	21.27	14.00	1.54	2.00	5.82	2.40	4.74	9.00	16.00	39.00	4	29	24	3	2	0					10.48	167.68
T0226	30.37	62	11	39.38	11.50	14.62	9.50	5.11	7.00	20.54	6.13	4.01	11.00	16.50	39.00	5	29	34	3	2	0					30.37	501.11
T0228	16.88	57	31	48.67	12.35	15.51	10.00	7.97	13.53	11.76	6.67	4.58	11.18	23.53	47.06	7	18	32	3	2	0					16.88	397.19
T0230	2.42	54	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	2	0					0.00	0.00
	165.67																					**0.00**	**0.00**	**57.73**	**2,746.15**	**103.06**	**1,690.53**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
T0220	2012	62953	Rail Loading Facility Expansion			7.61	376.70		
			TOTAL REMOVALS	**0.00**	**0.00**	**7.61**	**376.70**	**0.00**	**0.00**

POST-PROJECT	**2012**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**50.12**	**2,369.45**
Future Potential Habitat	**103.06**	**1,690.53**
TOTAL	**153.18**	**4,059.98**

Key:

BA = basal area
dbh = diameter at breast height
hwd = hardwood
hgc = herbaceous ground cover

Type Burn:
0=no data available
1=non-growing season
2=growing season

Stand Score
0=Unsuitable
1=Suitable

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

Forest Type:
11 = Longleaf Pine-Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
ND = no data provided

*** Note**: No pine data was collected for pine plantation stands less than 30 years old.

Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

Appendix Table H-298. Red-cockaded woodpecker foraging habitat totals and project removals using the **Recovery Standard** (USFWS 2003) within the 0.5 mile radius foraging habitat partition for Fort Benning Cluster **T02-02R, Alternatives A and B** for proposed Maneuver Center of Excellence projects, Muscogee and Chattahoochee Counties, Georgia.

PRE-PROJECT

Stand	Acres	Pine Age	Forest Type	Pine Stems 4 10" dbh	Pine BA 4-10" dbh	Pine Stems 10-14" dbh	Pine BA 10-14" dbh	Pine stems >14" dbh	Pine BA >14" dbh	Hwd Stems 4-10" dbh	Hwd Stems 10-14" dbh	Hwd Stems > 14" dbh	Hwd BA > 10" dbh	Pine BA > 10 " dbh	Total Stand BA (Pines + Hwds)	Hwd Midstory Height Density	HGC (%)	% Hwd Canopy	Number of years since last burn	Burn Type	Matrix Stand Score	Suitability	Suitable Acreage	Suitable BA	Potentially Suitable Acreage	Potentially Suitable BA	Future Potential Acreage	Future Potential BA
pp243*	3.42	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					3.42	0.00
pp244*	4.00	9	21P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.91	NH					4.00	0.00
R0219	0.01	89	26	43.79	13.16	17.03	11.58	17.60	28.95	15.84	8.35	5.97	15.26	40.53	68.95	1	6	29	3	1	4.03	PS					0.00	0.00
T0214	21.10	73	21	23.38	6.00	2.72	2.00	5.69	10.00	21.45	6.89	5.72	14.50	12.00	32.50	5	24	60	3	1	3.22	PS					21.10	253.20
T0215	8.49	94	31	80.54	21.25	20.36	13.75	3.17	5.00	13.80	8.32	2.74	10.00	18.75	50.00	5	19	32	3	1	2.73	PS					8.49	159.19
T0216	8.32	67	21	54.42	14.00	19.87	13.50	8.28	12.00	11.74	1.77	0.49	2.50	25.50	42.00	1	28	7	3	1	3.68	PS					8.32	212.16
T0218	2.45	67	21	29.02	8.00	17.87	12.00	6.58	10.50	20.59	3.41	5.44	12.50	22.50	43.00	3	26	27	3	2	3.70	PS					0.00	0.00
T0220	50.40	109	13	0.00	0.00	4.24	3.50	22.11	46.00	99.66	21.73	7.04	28.50	49.50	78.00	5	3	52	3	2	4.12	PS			50.40	2,494.80		
T0224	7.33	57	21	13.12	5.71	6.12	4.29	16.42	30.00	0.00	0.00	3.63	5.71	34.29	45.71	5	21	14	3	2	4.17	PS					7.33	251.35
T0225	10.48	89	21	42.28	14.00	21.27	14.00	1.54	2.00	5.82	2.40	4.74	9.00	16.00	39.00	4	29	24	3	2	3.05	PS					10.48	167.68
T0226	30.37	62	11	39.38	11.50	14.62	9.50	5.11	7.00	20.54	6.13	4.01	11.00	16.50	39.00	5	29	34	3	2	3.18	PS					30.37	501.11
T0228	16.88	57	31	48.67	12.35	15.51	10.00	7.97	13.53	11.76	6.67	4.58	11.18	23.53	47.06	7	18	32	3	2	3.00	PS					16.88	397.19
T0230	2.42	54	ND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	3	2	2.63	PS					0.00	0.00
	165.67																						**0.00**	**0.00**	**50.40**	**2,494.80**	**110.39**	**1,941.88**

REMOVALS

Stand	Fiscal Year	Project Number	Project Name	Suitable Acreage Removed	Suitable BA Removed	Potentially Suitable Acreage Removed	Potentially Suitable BA Removed	Future Potential Acreage Removed	Future Potential BA Removed
T0220	2012	62953	Rail Loading Facility Expansion			7.61	376.70		
			TOTAL REMOVALS	**0.00**	**0.00**	**7.61**	**376.70**	**0.00**	**0.00**

POST-PROJECT	**2009**	
	Acres	**BA**
Suitable Habitat	**0.00**	**0.00**
Potentially Suitable Habitat	**42.79**	**2,118.10**
Future Potential Habitat	**110.39**	**1,941.88**
TOTAL	**153.18**	**4,059.98**

Key:

BA= basal area
dbh= diameter at breast height
hwd= hardwood
hgc= herbaceous ground cover

Type Burn:
0=no data available
1= non-growing season
2= growing season

Suitability
CS= currently suitable
PS= potentially suitable
NH= non-habitat

Hardwood Midstory:
1 = low, sparse
2 = low, moderate
3 = low, dense
4 = medium, sparse
5 = tall, sparse
6 = medium, moderate
7 = tall, moderate
8 = medium, dense
9 = tall, dense

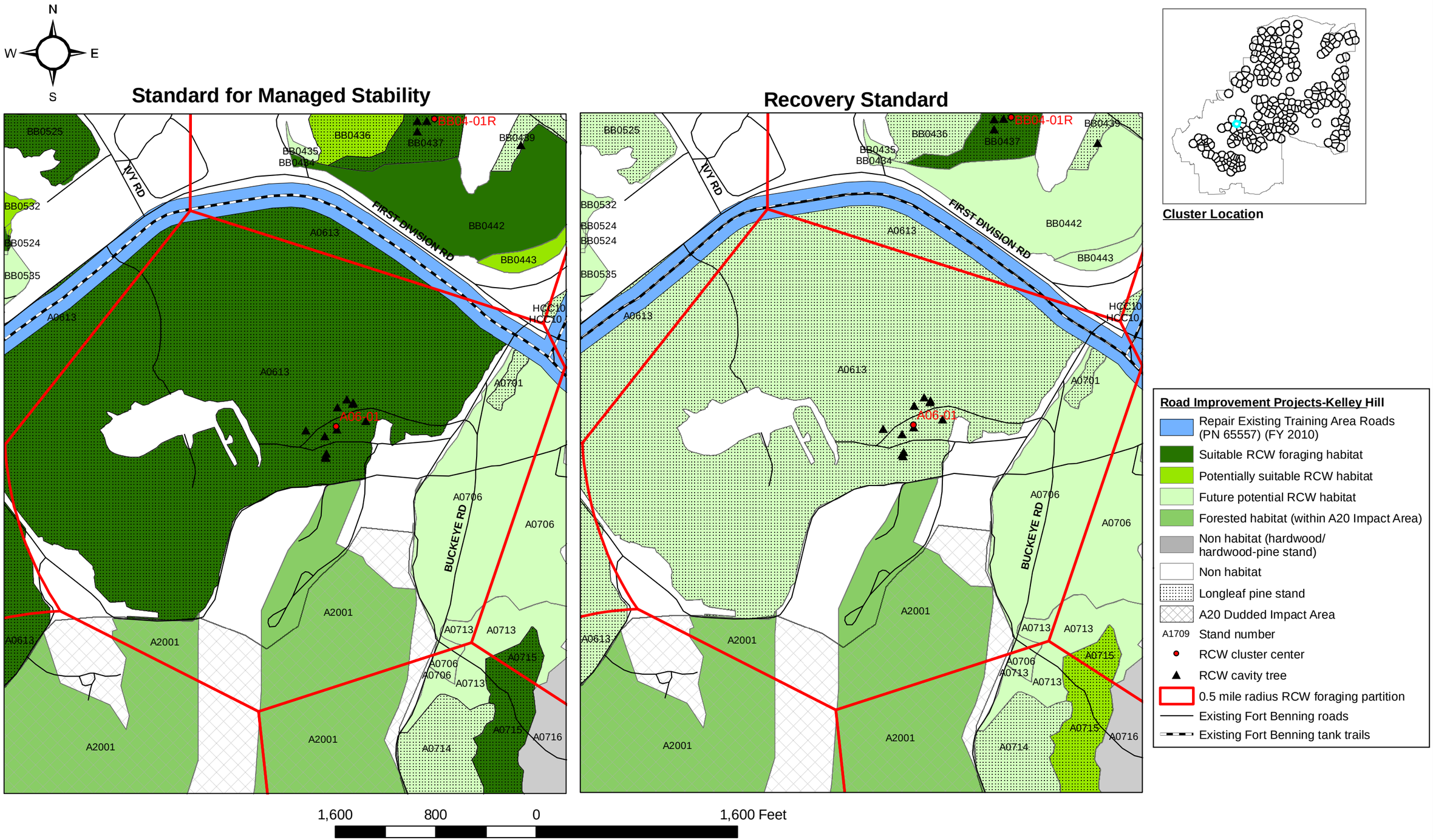
Forest Type:
11 = Longleaf Pine-Hardwood
13 = Loblolly Pine-Hardwood
21 = Longleaf Pine
21P = Longleaf Pine Plantation
26 = Mixed Pine-Longleaf
31 = Loblolly Pine
ND = no data provided

* **Note**: No pine data was collected for pine plantation stands less than 30 years old.

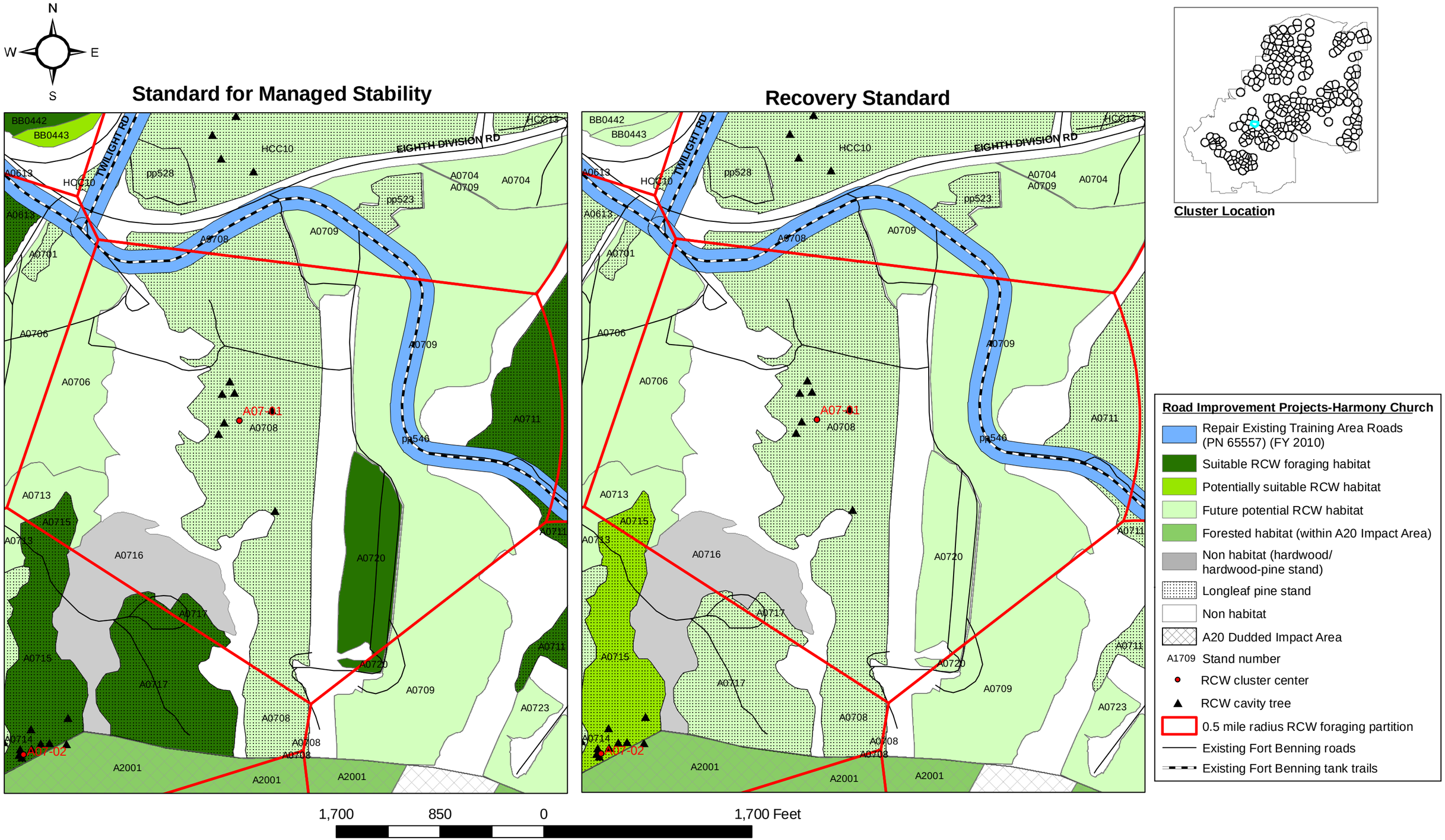
Non-contiguous foraging habitat according to the USFWS Recovery Plan (2003). This habitat was not counted towards the total foraging habitat available within the partition.

APPENDIX I

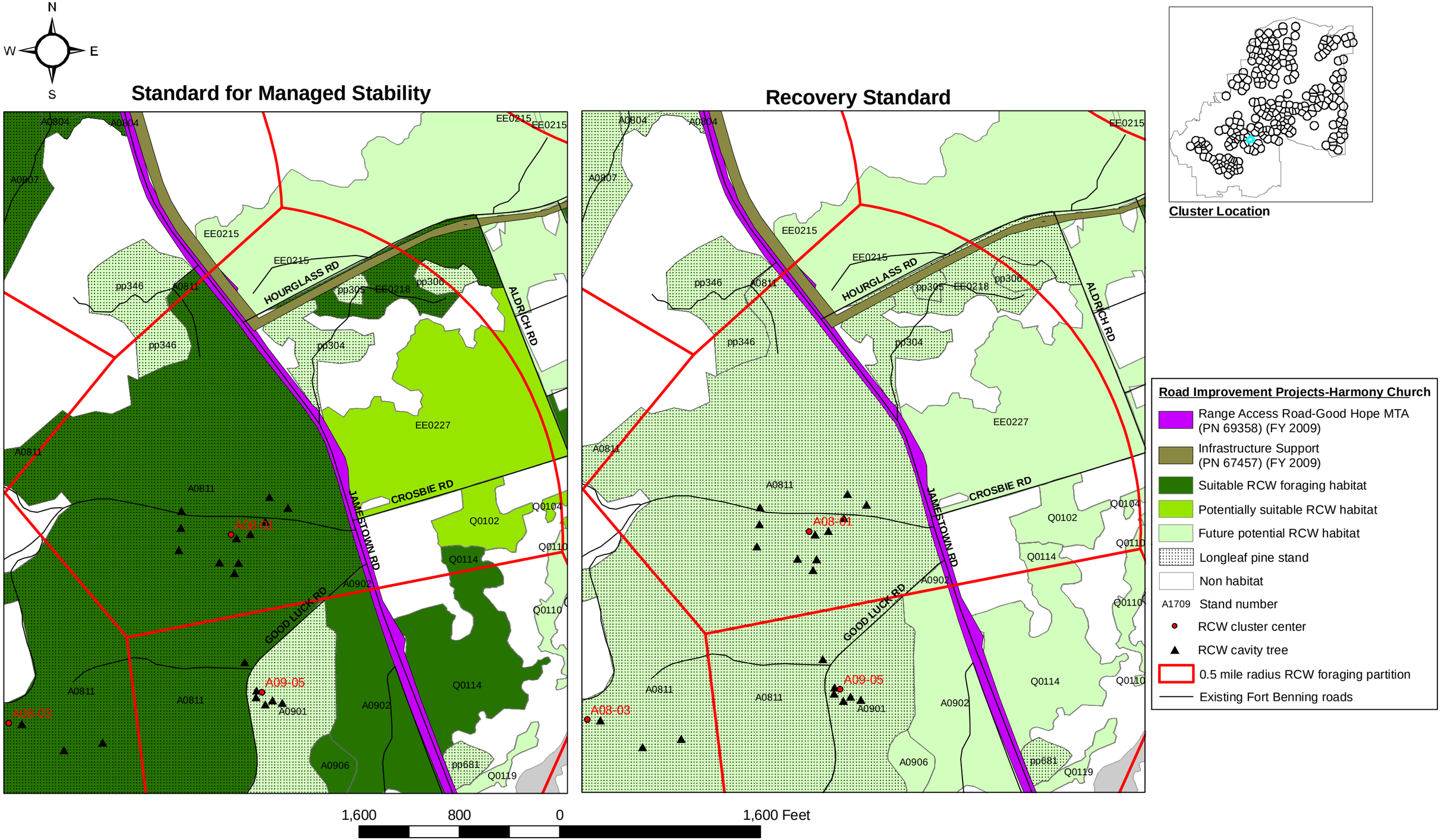
RED-COCKADED WOODPECKER (RCW) FORAGING PARTION FIGURES FOR THE STANDARD FOR MANAGED STABILITY (SMS) AND RECOVERY STANDARDS (RS), ALTERNATIVES A AND B, MANEUVER CENTER OF EXCELLENCE PROJECTS



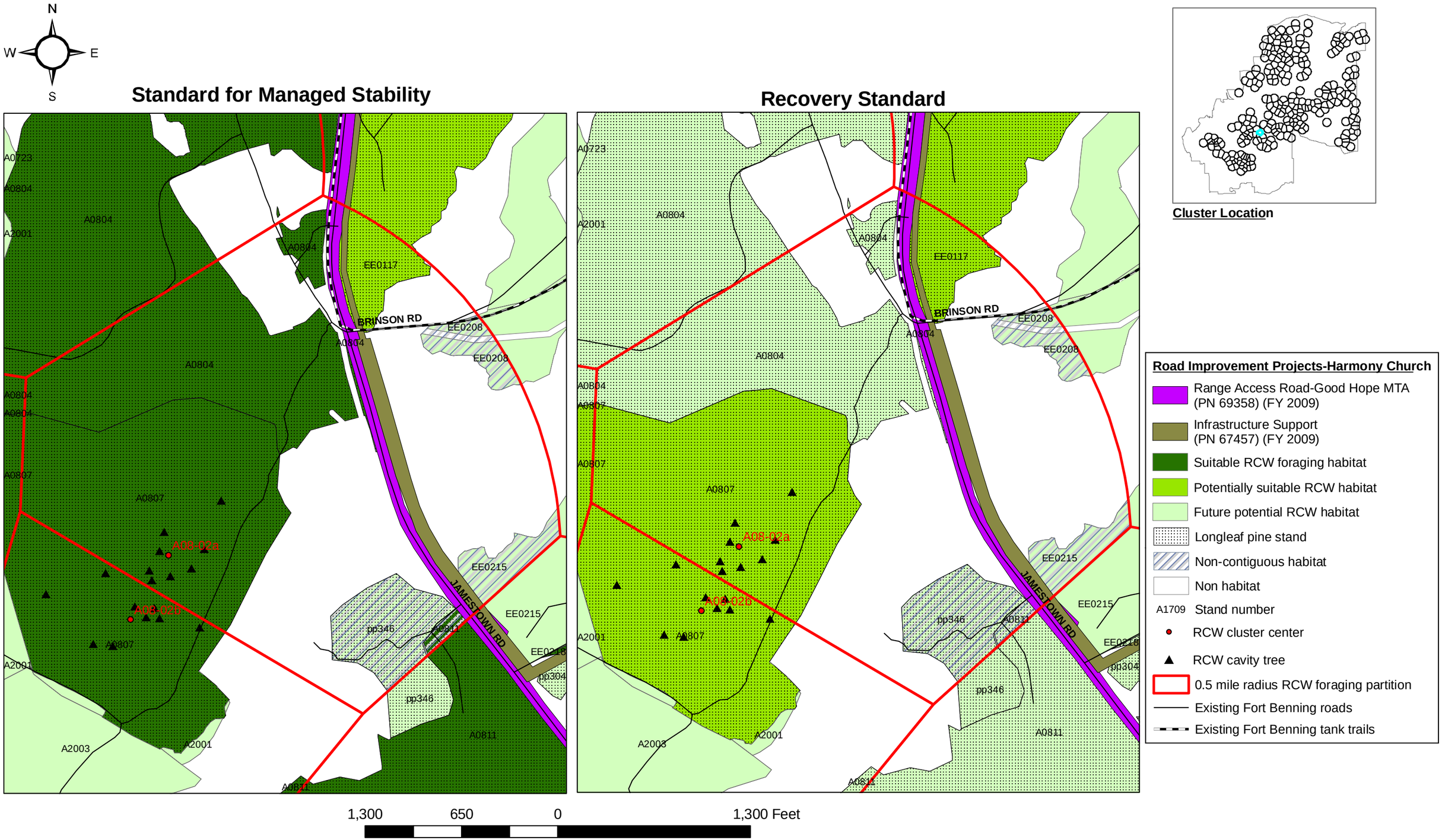
Appendix Figure I-1. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A06-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



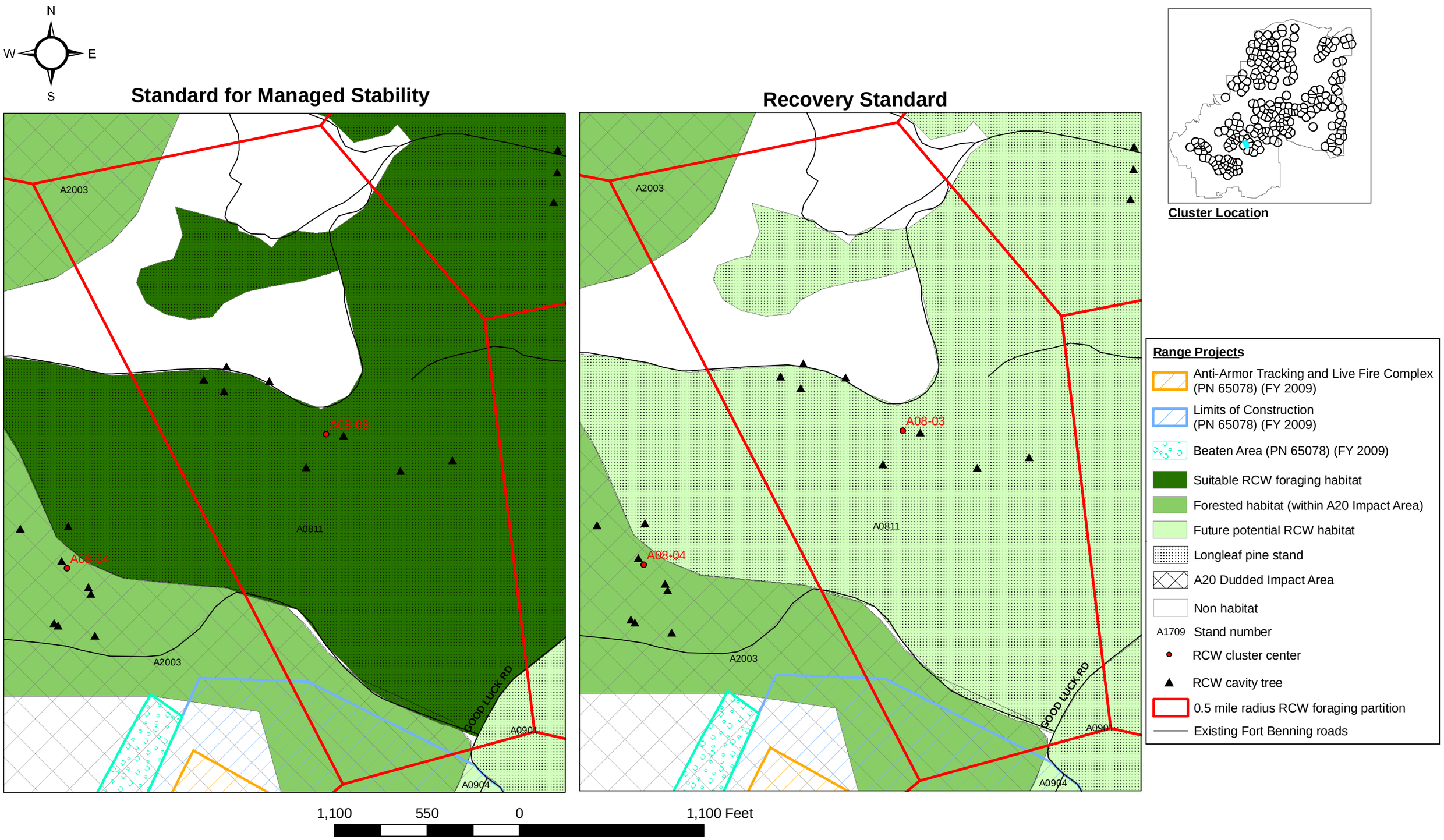
Appendix Figure I-2. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A07-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



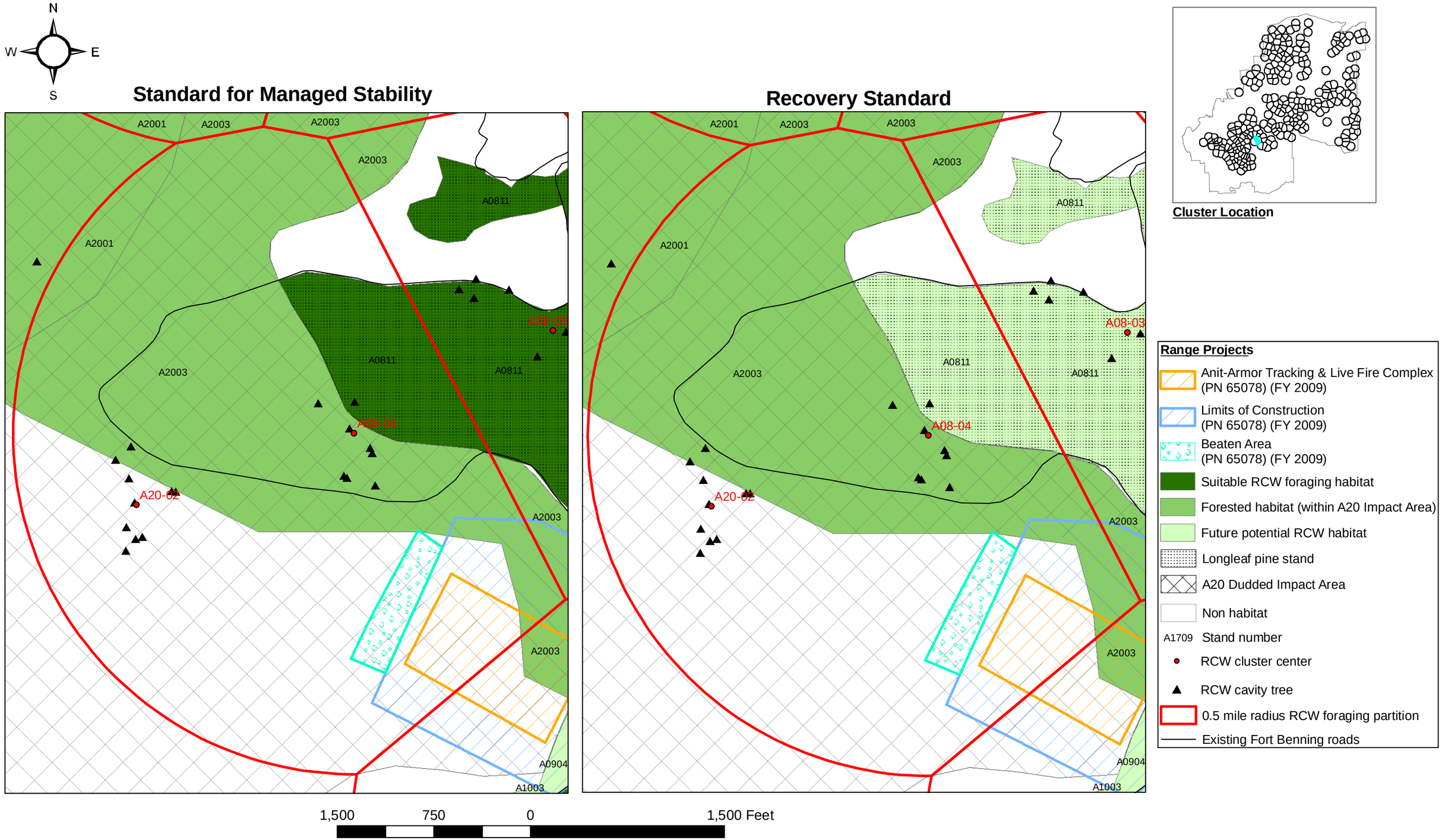
Appendix Figure I-3. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A08-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



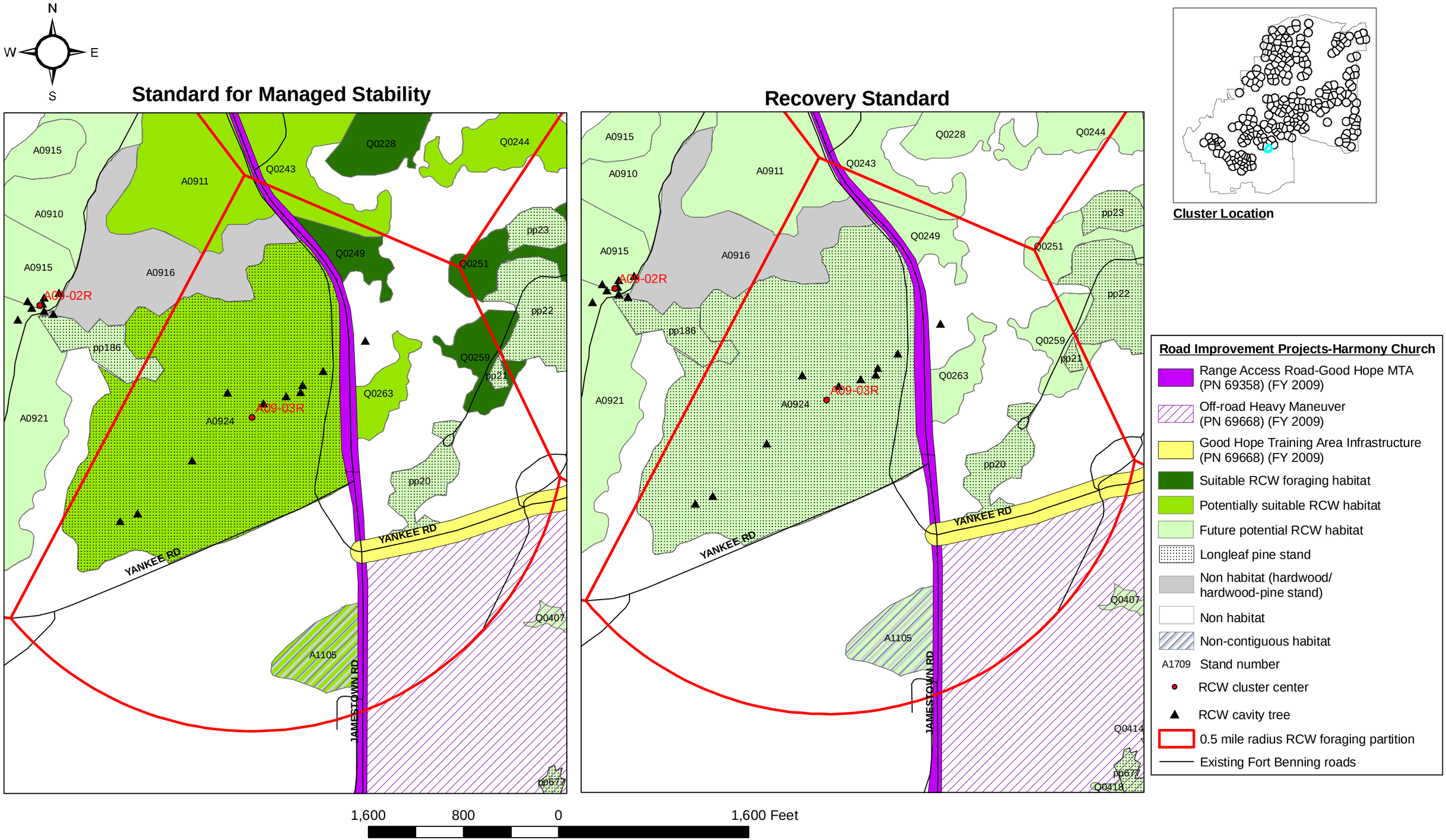
Appendix Figure I-4. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A08-02a** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



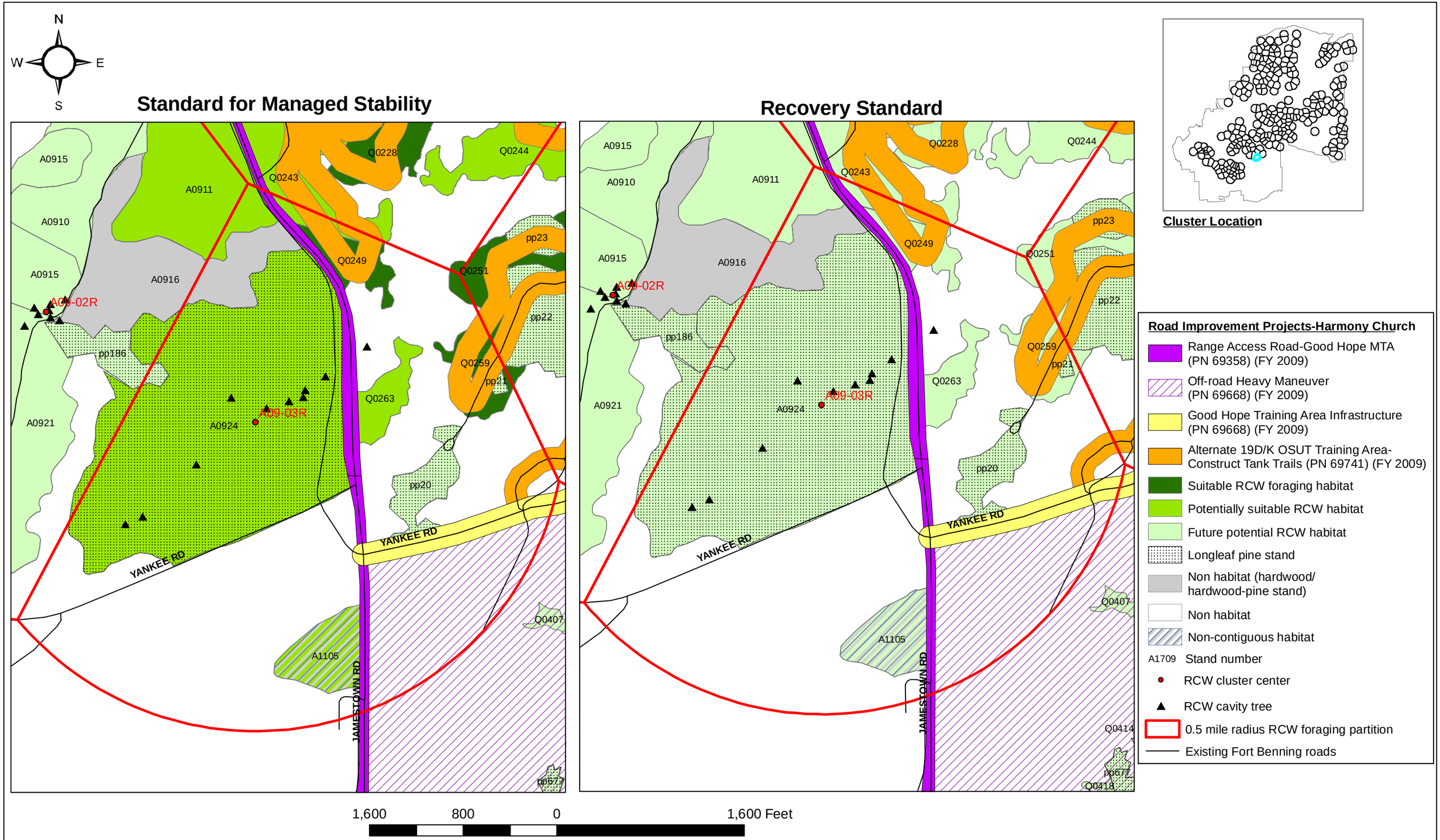
Appendix Figure I-5. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A08-03** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



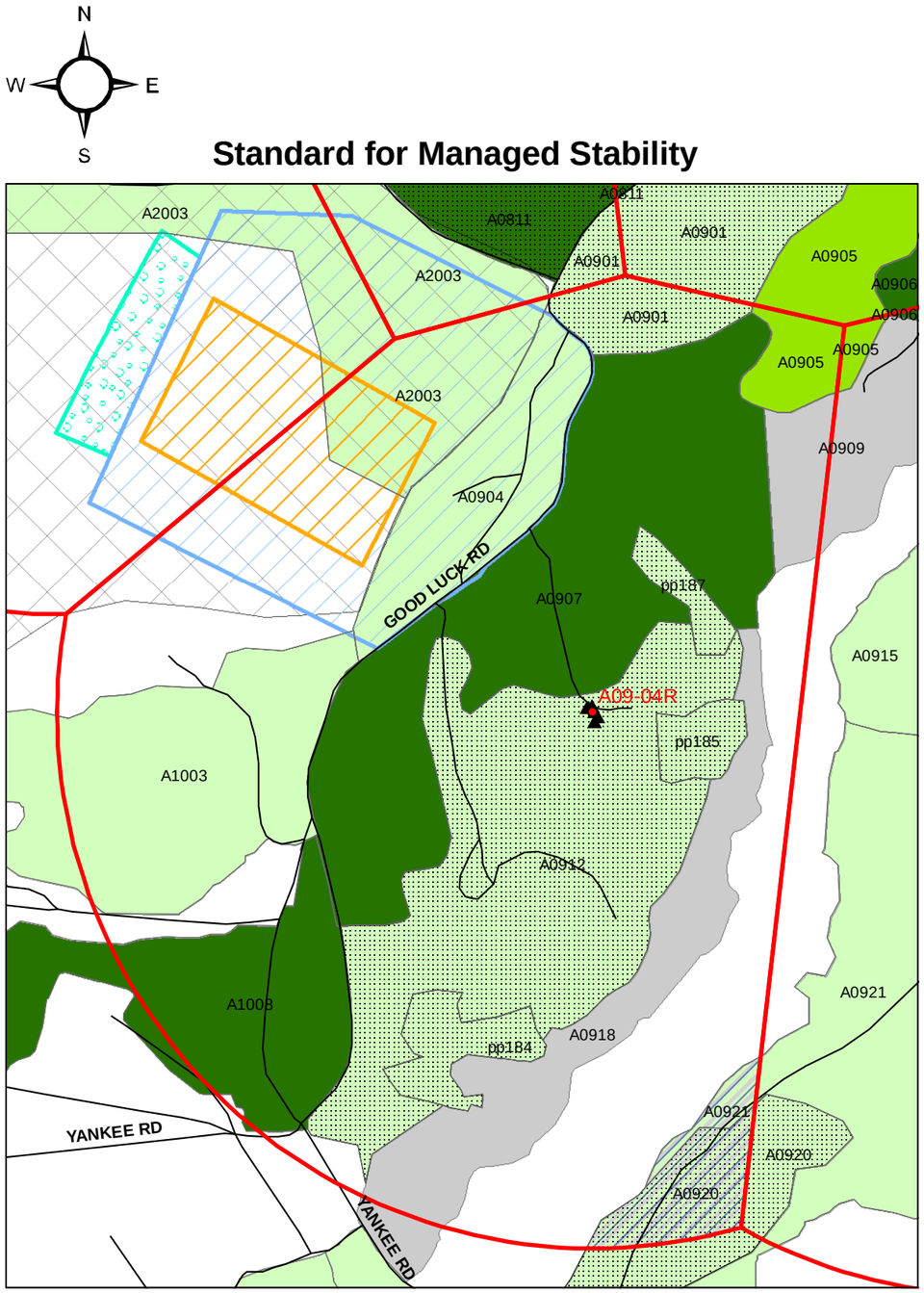
Appendix Figure I-6. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A08-04** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.

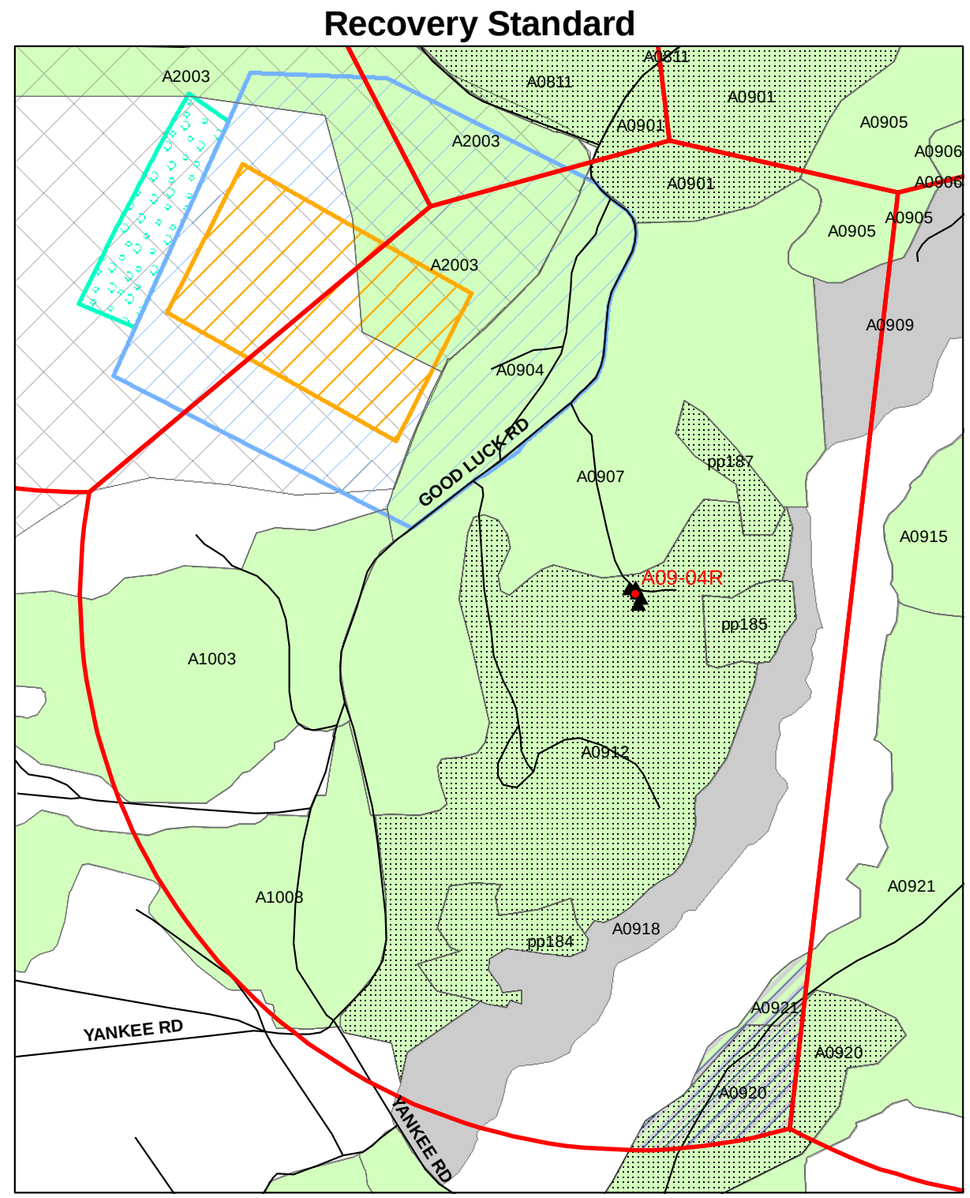


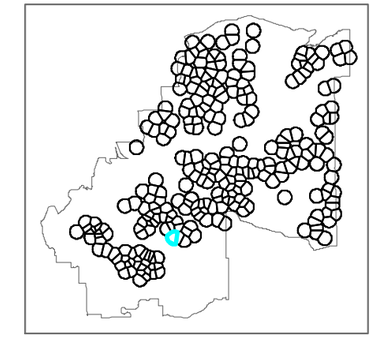
Appendix Figure I-7. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A09-03R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.



Appendix Figure I-8. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A09-03R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.







Cluster Location

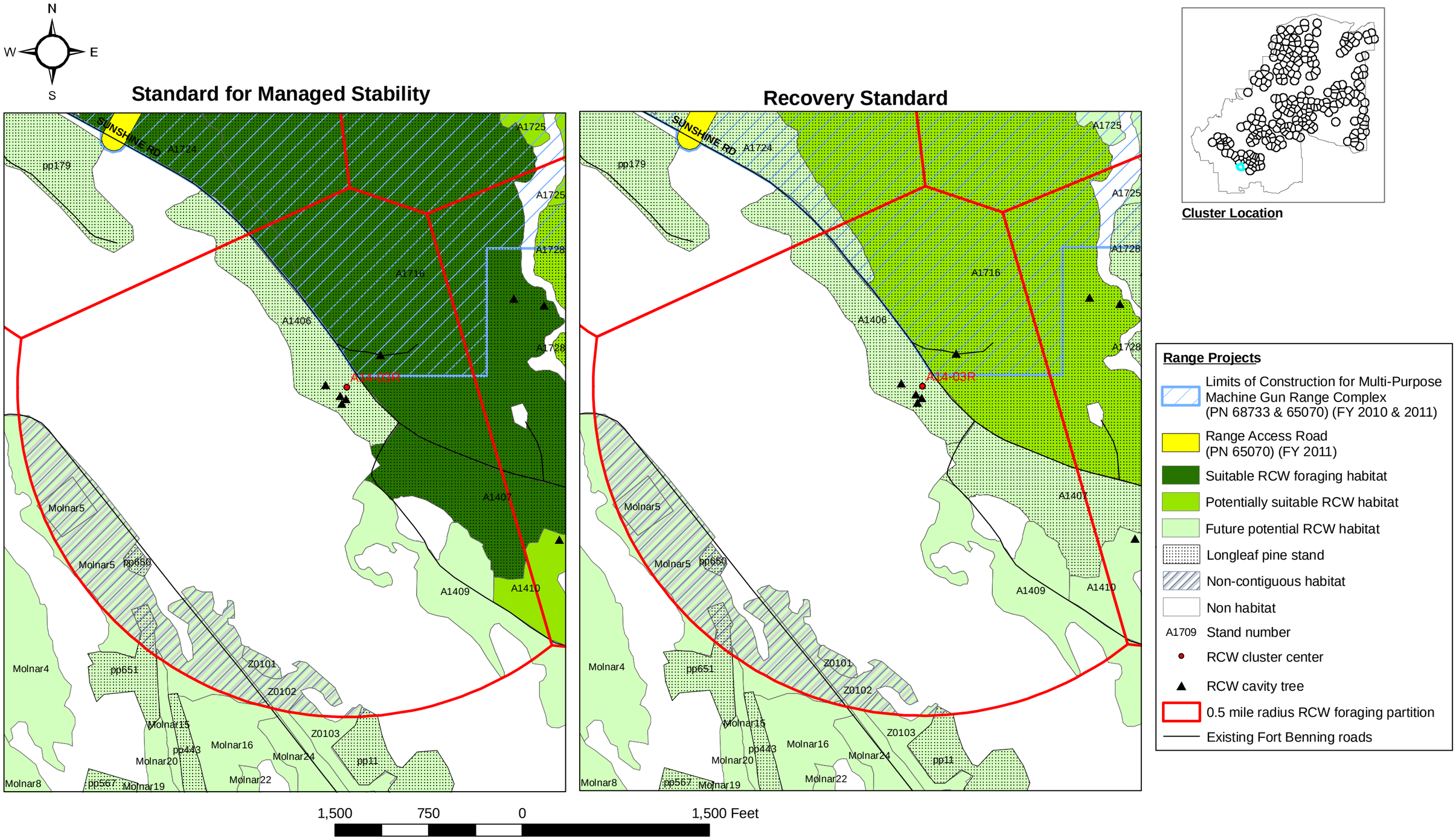
Range Projects

- Anti-Armor Tracking and Live Fire Range (PN 65078) (FY 2009)
- Limits of Construction for Range Complex (PN 65078) (FY 2009)
- Beaten area for Anti-Armor Tracking and Live Fire Range (PN 65078) (FY 2009)
- Suitable RCW foraging habitat
- Potentially suitable RCW habitat
- Future potential RCW habitat
- Longleaf pine stand
- Non-contiguous habitat
- Non habitat (hardwood/ hardwood-pine stand)
- Non habitat
- A20 Dudded Impact Area
- A1709 Stand number
- RCW cluster center
- RCW cavity tree
- 0.5 mile radius RCW foraging partition
- Existing Fort Benning roads

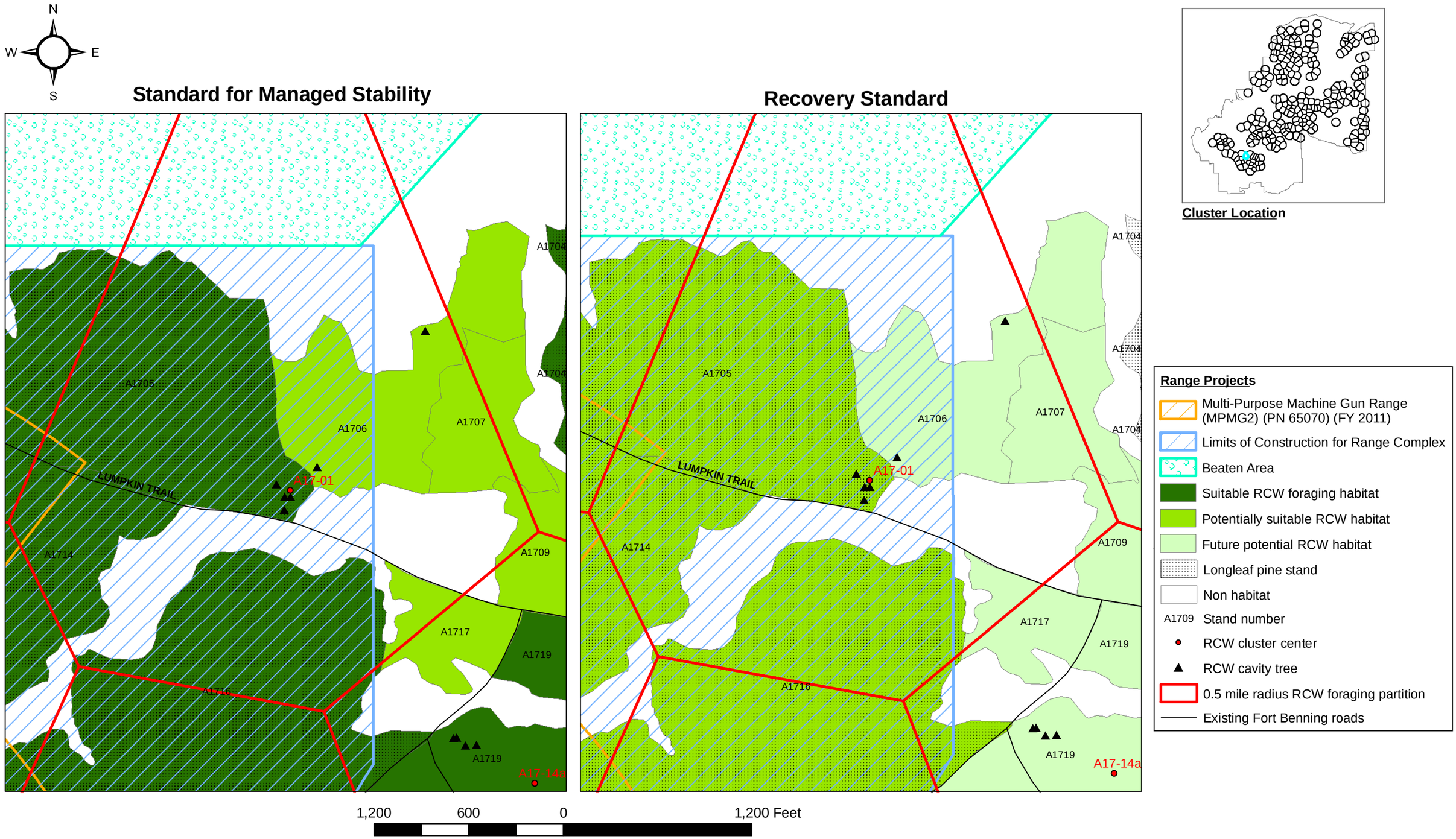
1,500 750 0 1,500 Feet

Appendix Figure I-9. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A09-04R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.

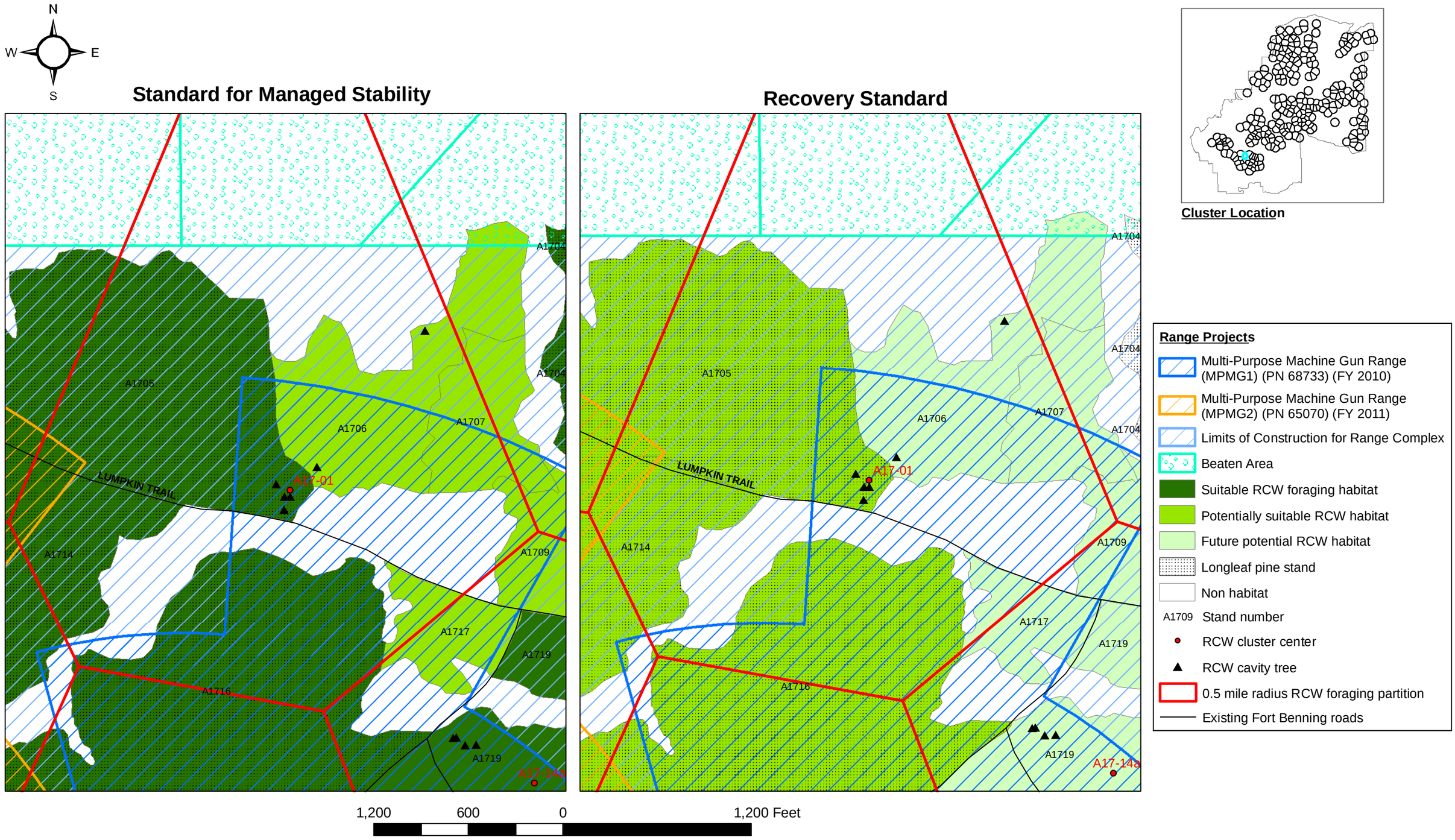
Appendix Figure I-10. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A09-05** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



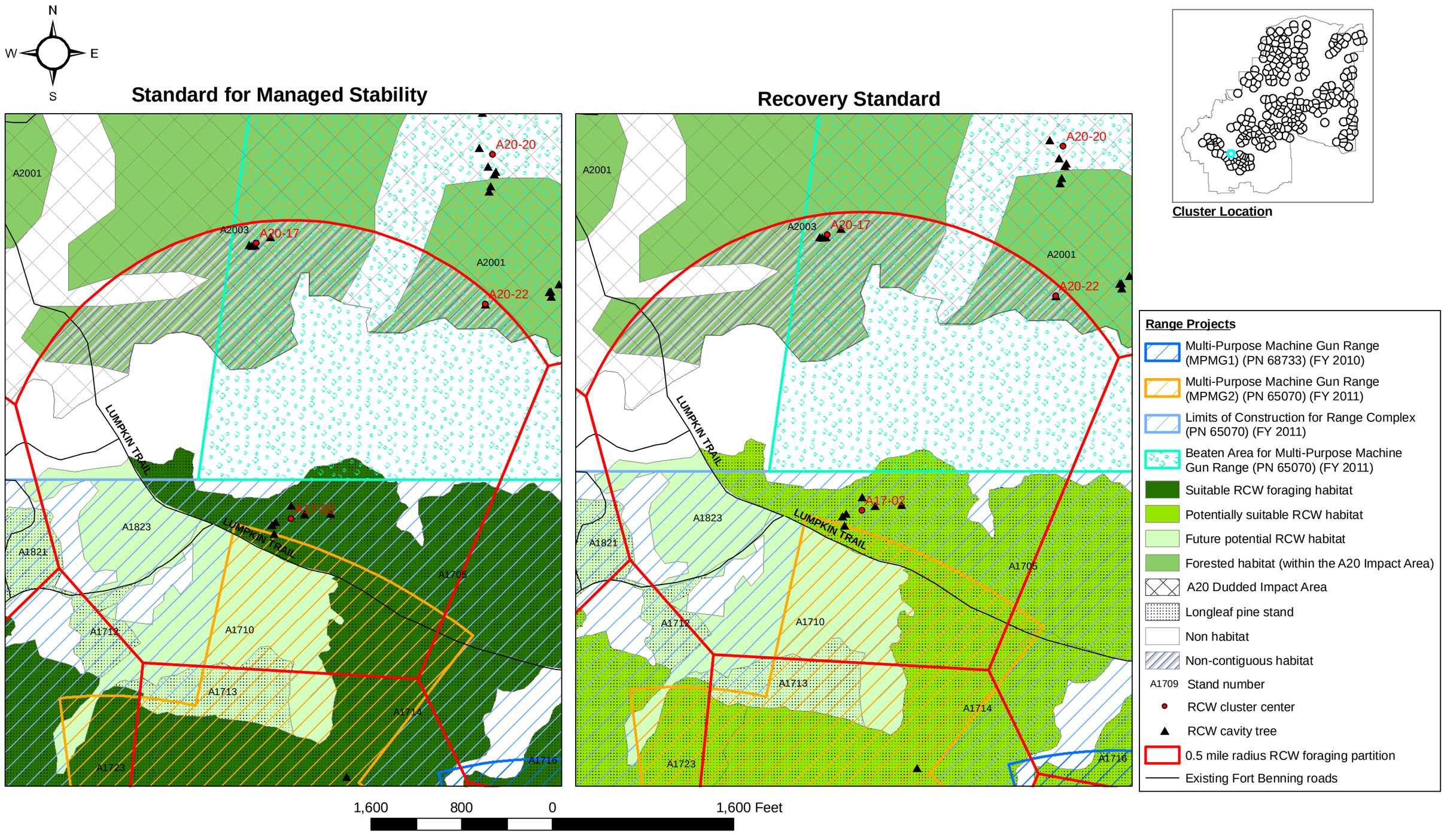
Appendix Figure I-11. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A14-03R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.



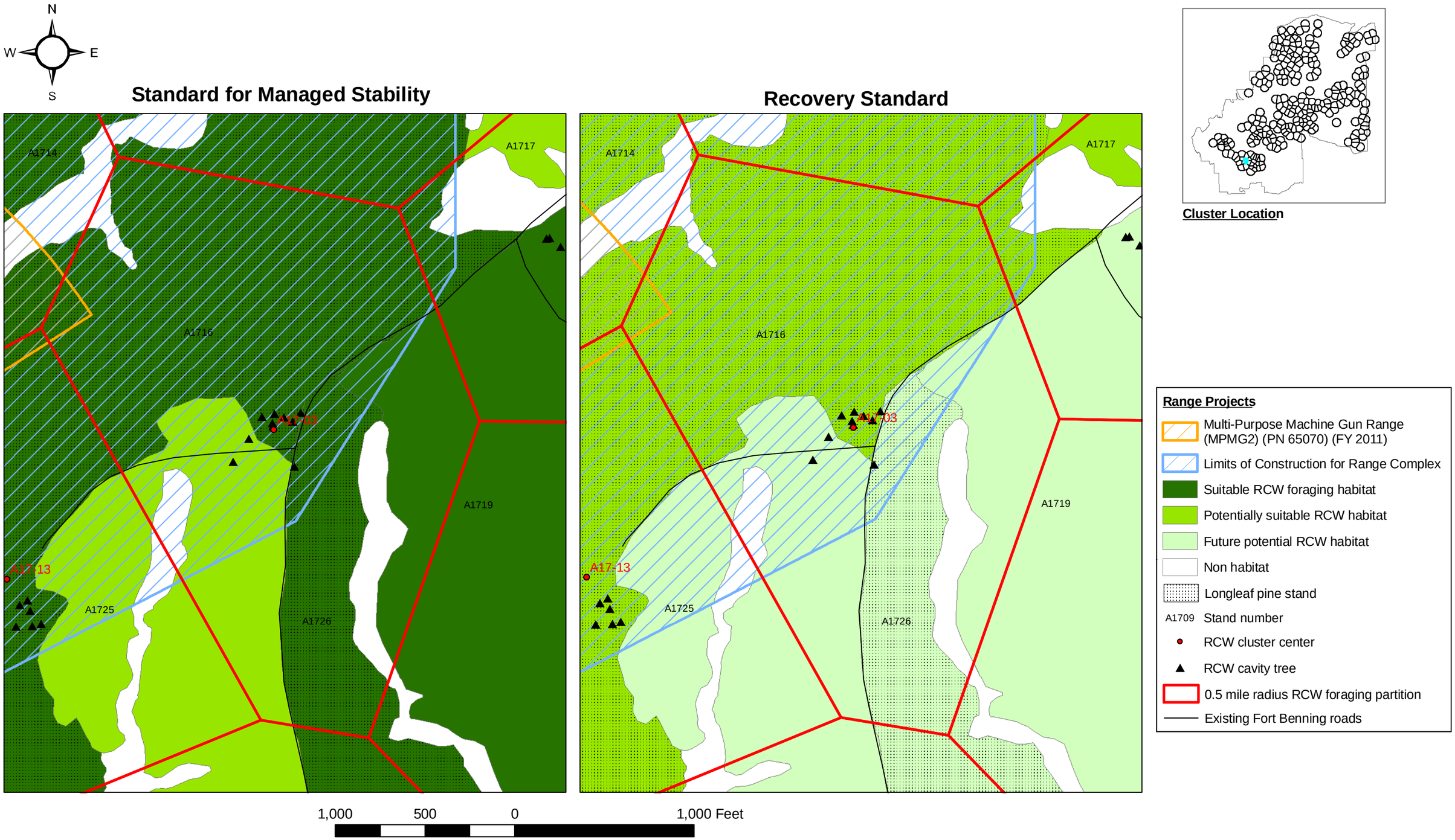
Appendix Figure I-12. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A17-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.



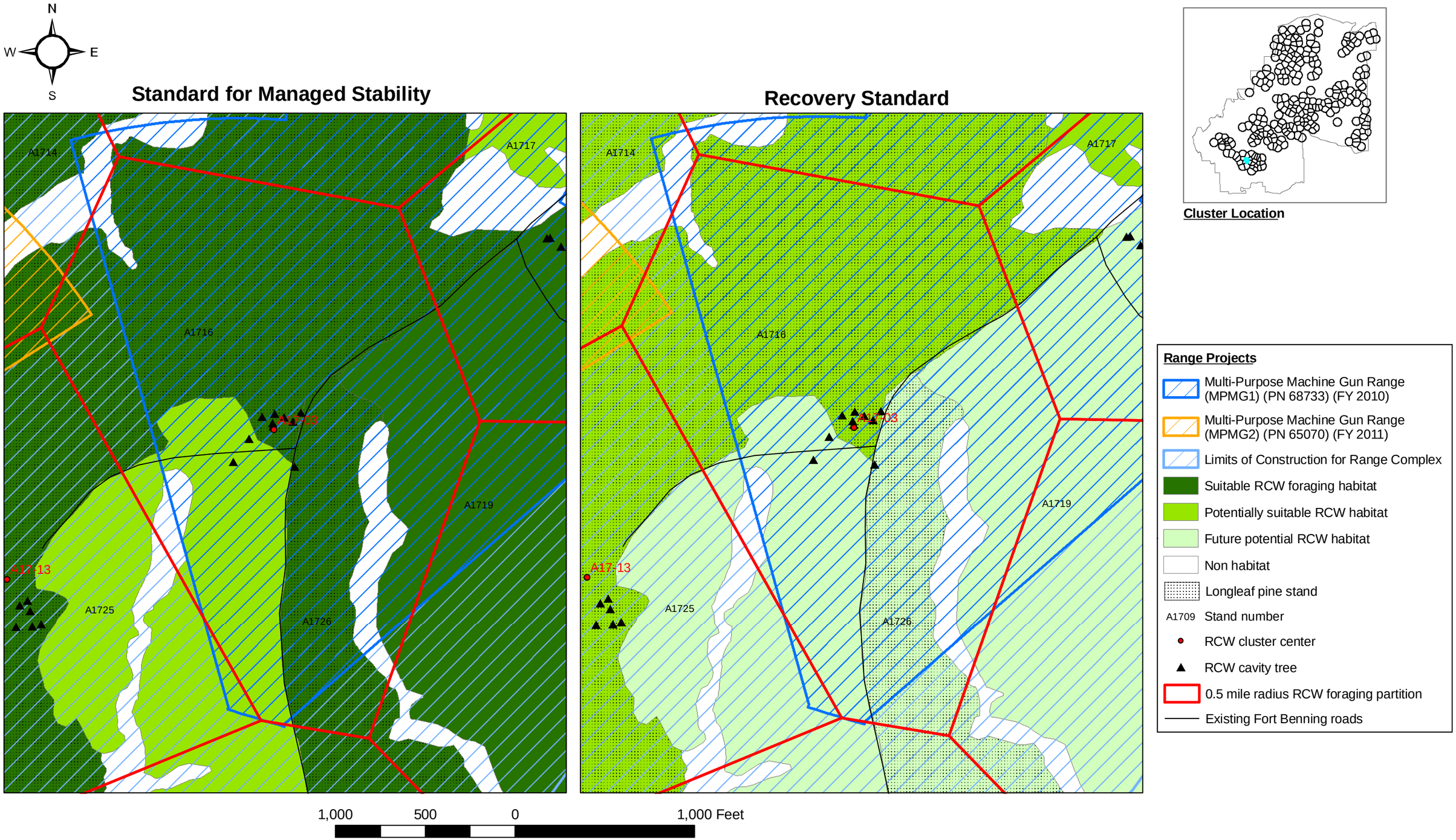
Appendix Figure I-13. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A17-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.



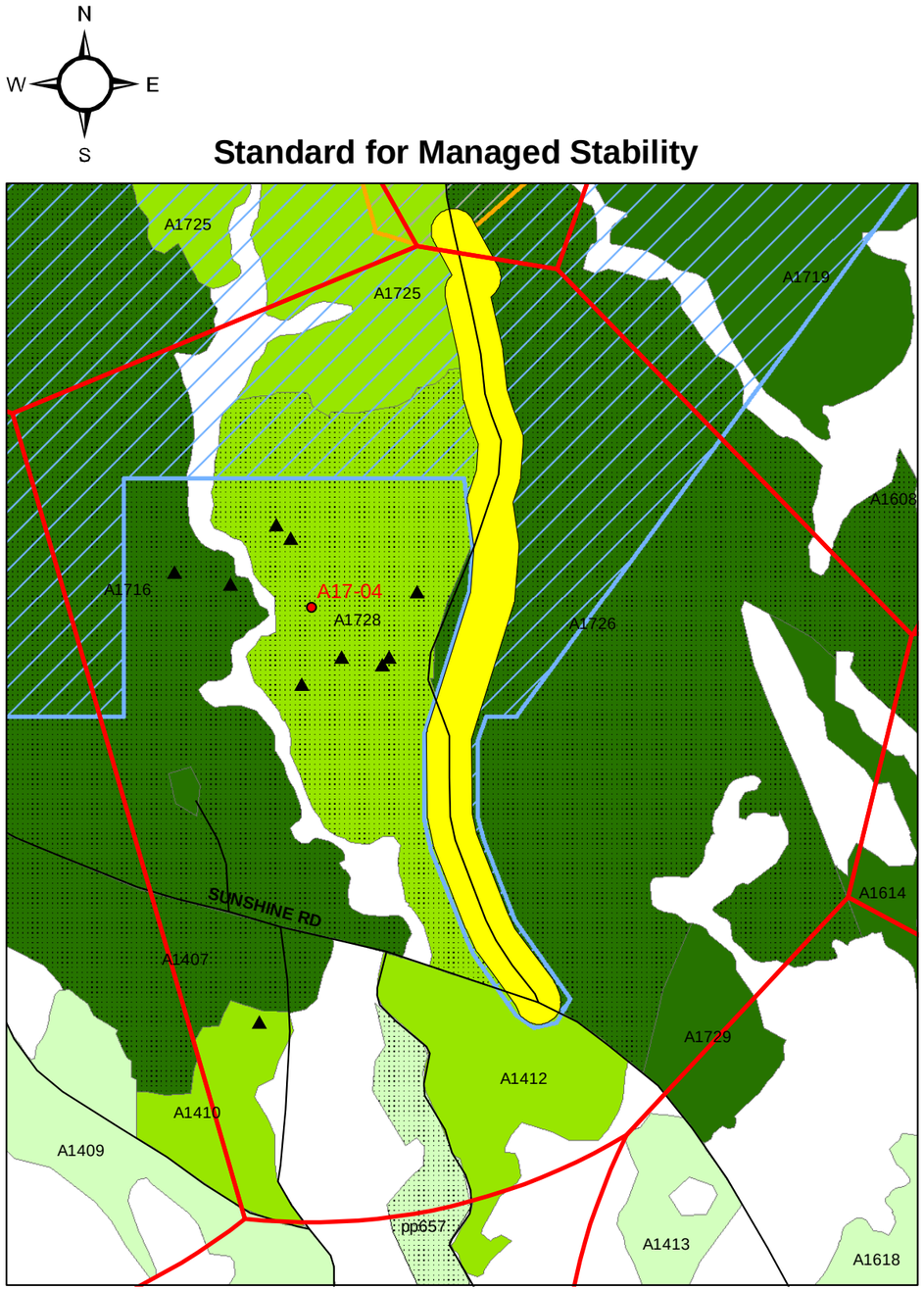
Appendix Figure I-14. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A17-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.

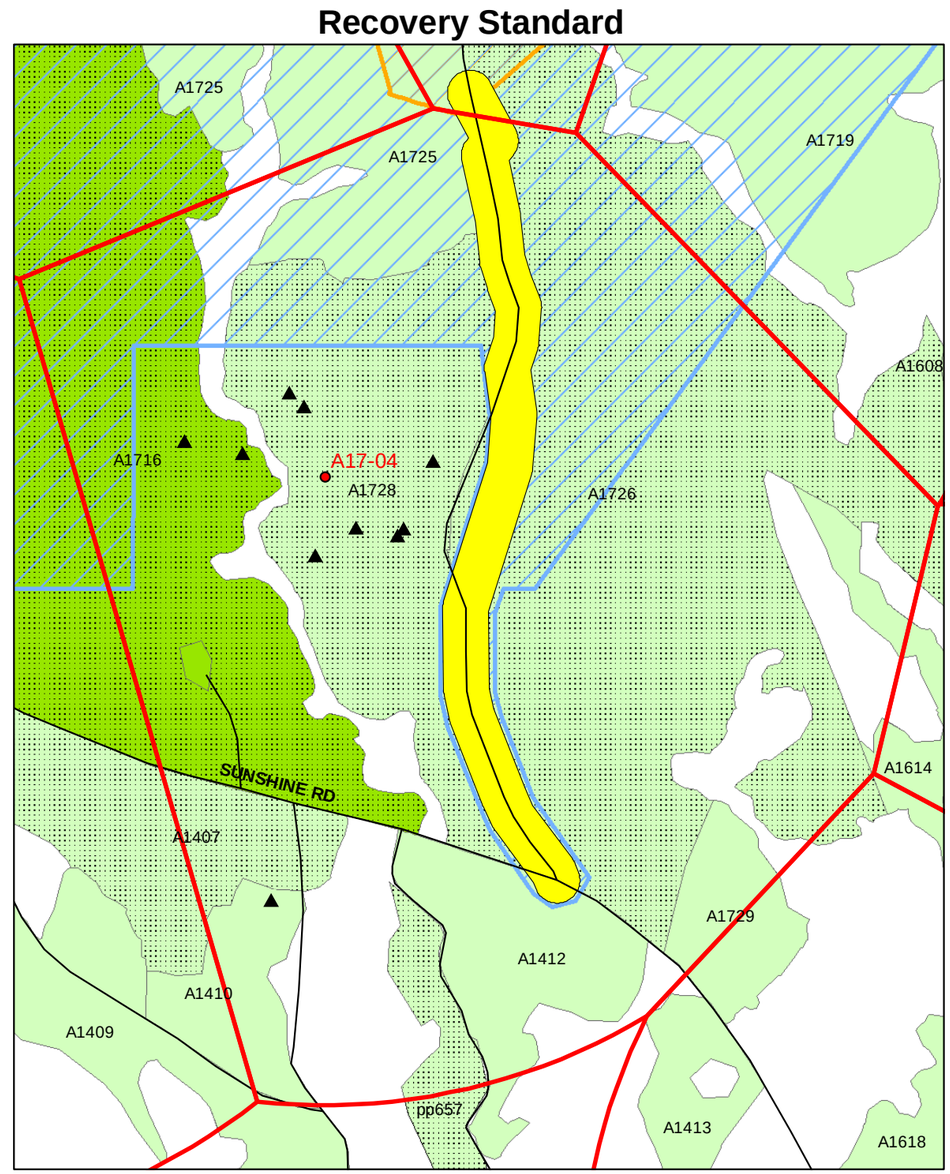


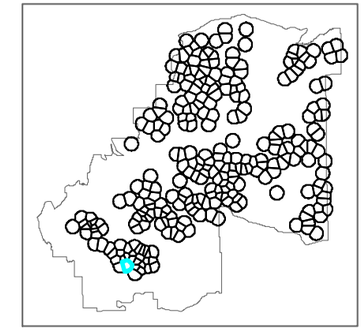
Appendix Figure I-15. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A17-03** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.



Appendix Figure I-16. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A17-03** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.







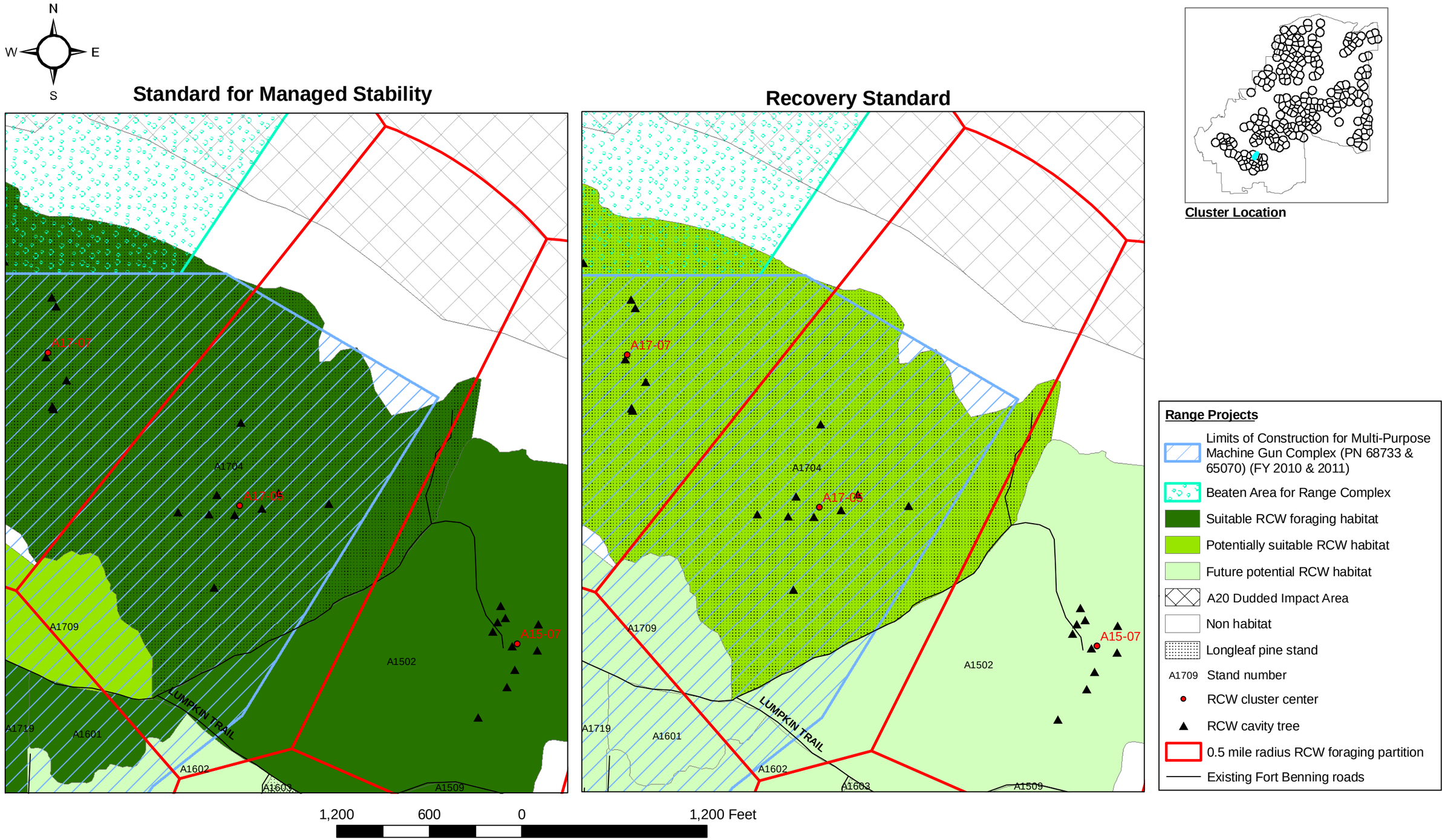
Cluster Location

Range Projects

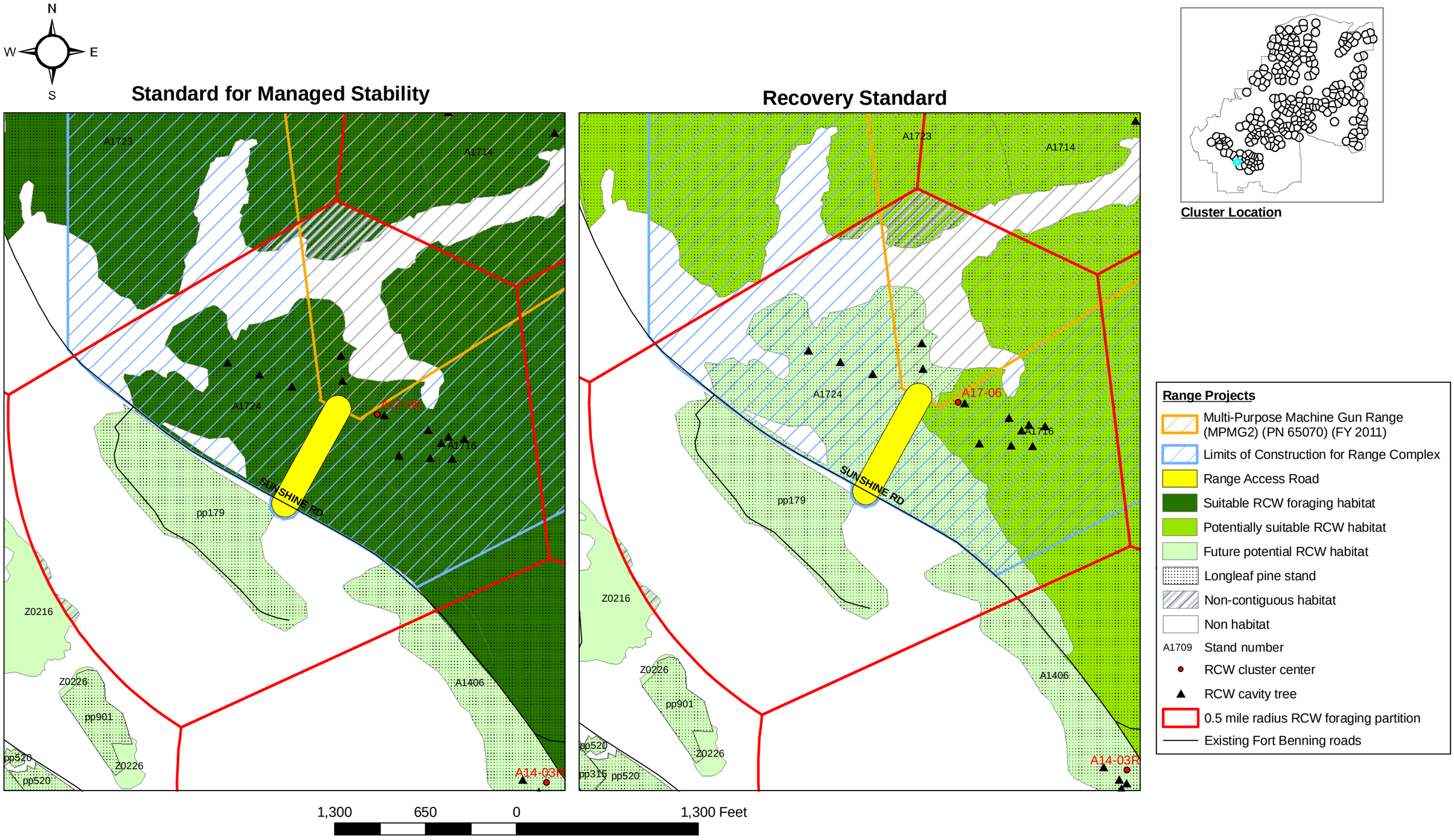
- Multi-Purpose Machine Gun Range (MPMG1) (PN 68733) (FY 2010)
- Limits of Construction for Range Complex
- Range Access Road (PN 68733) (FY 2010)
- Suitable RCW foraging habitat
- Potentially suitable RCW habitat
- Future potential RCW habitat
- Longleaf pine stand
- Non habitat
- A1709 Stand number
- RCW cluster center
- RCW cavity tree
- 0.5 mile radius RCW foraging partition
- Existing Fort Benning roads

1,250 625 0 1,250 Feet

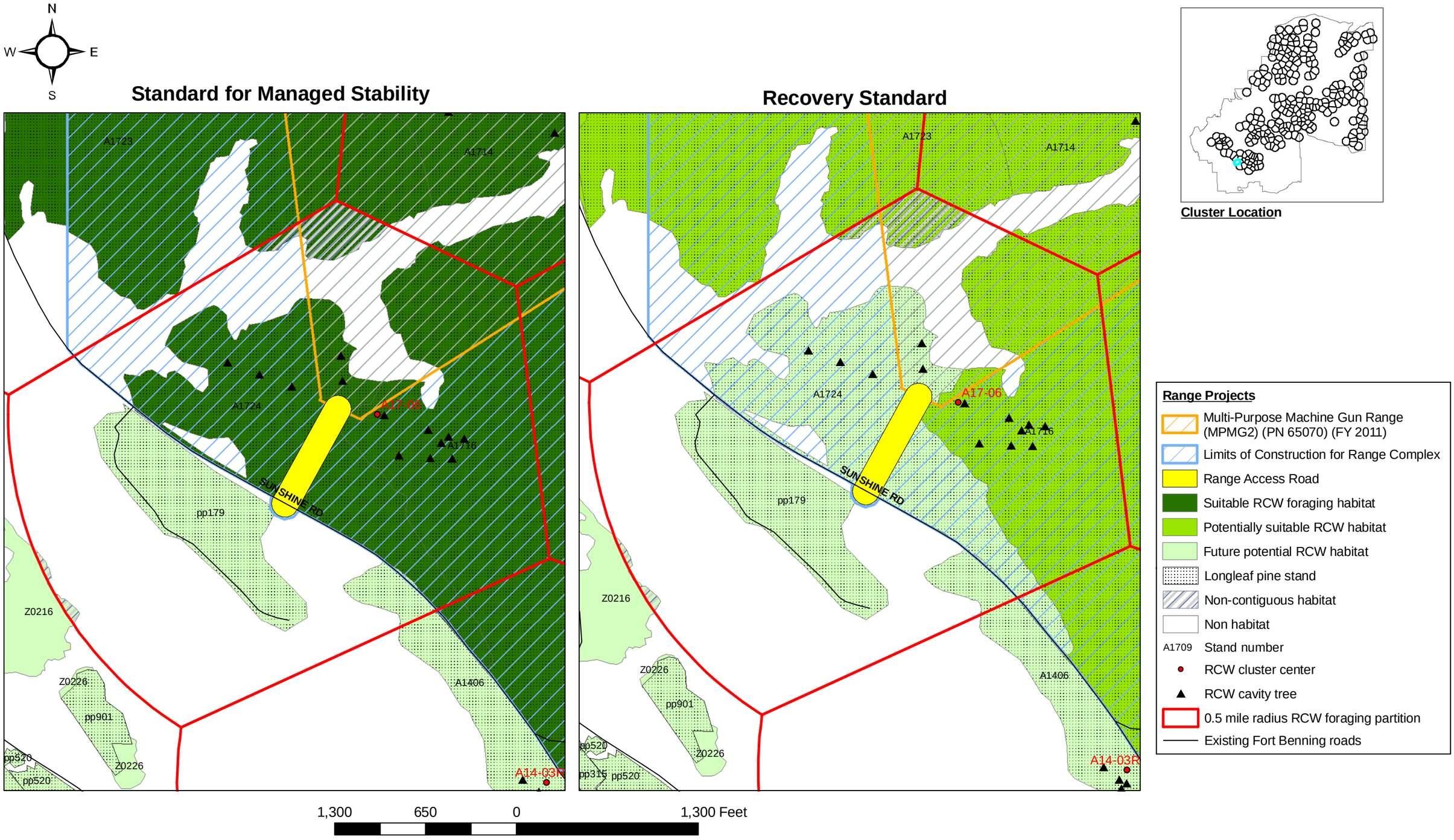
Appendix Figure I-17. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A17-04** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.



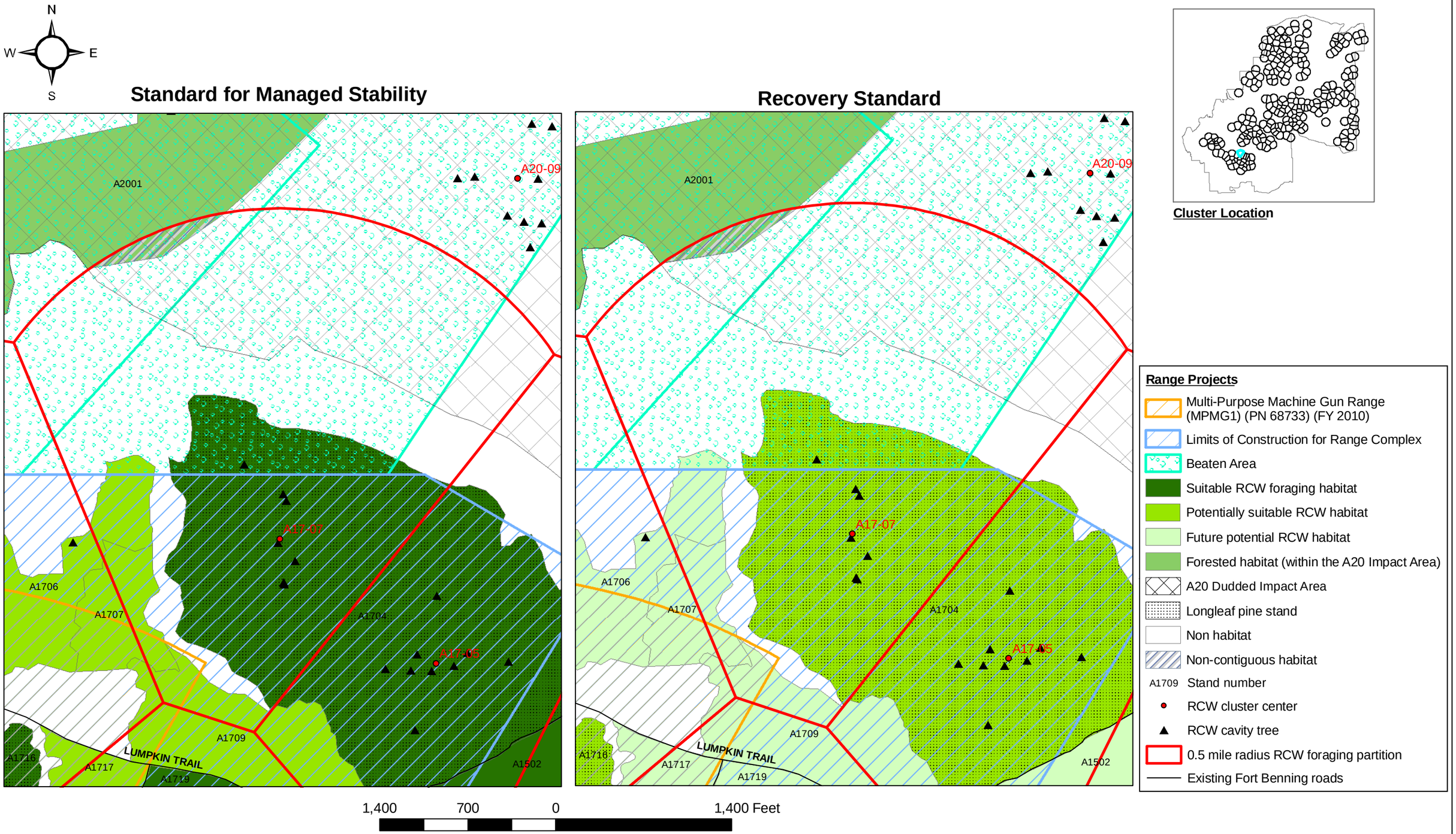
Appendix Figure I-18. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A17-05** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.



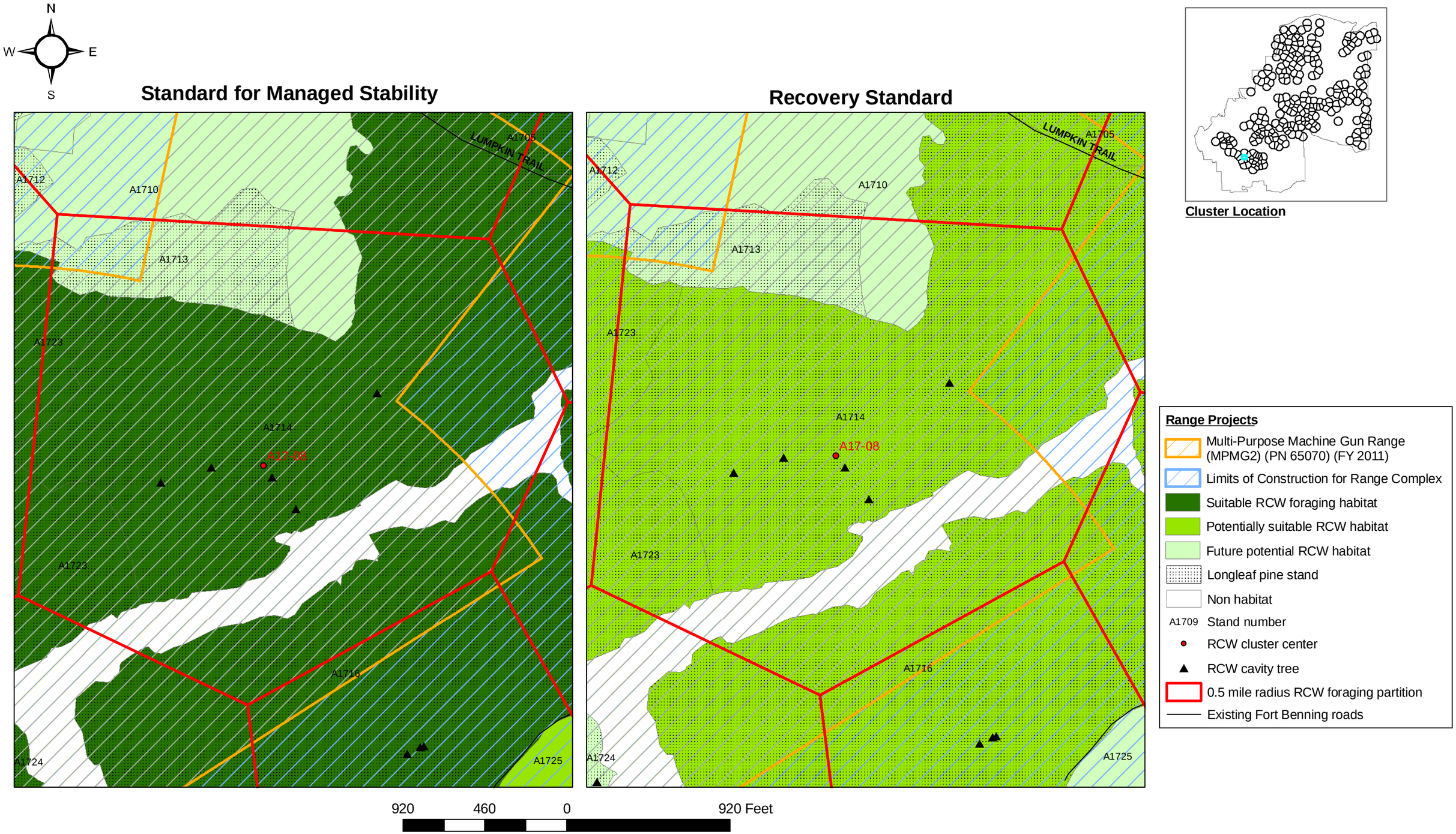
Appendix Figure I-19. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A17-06** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.



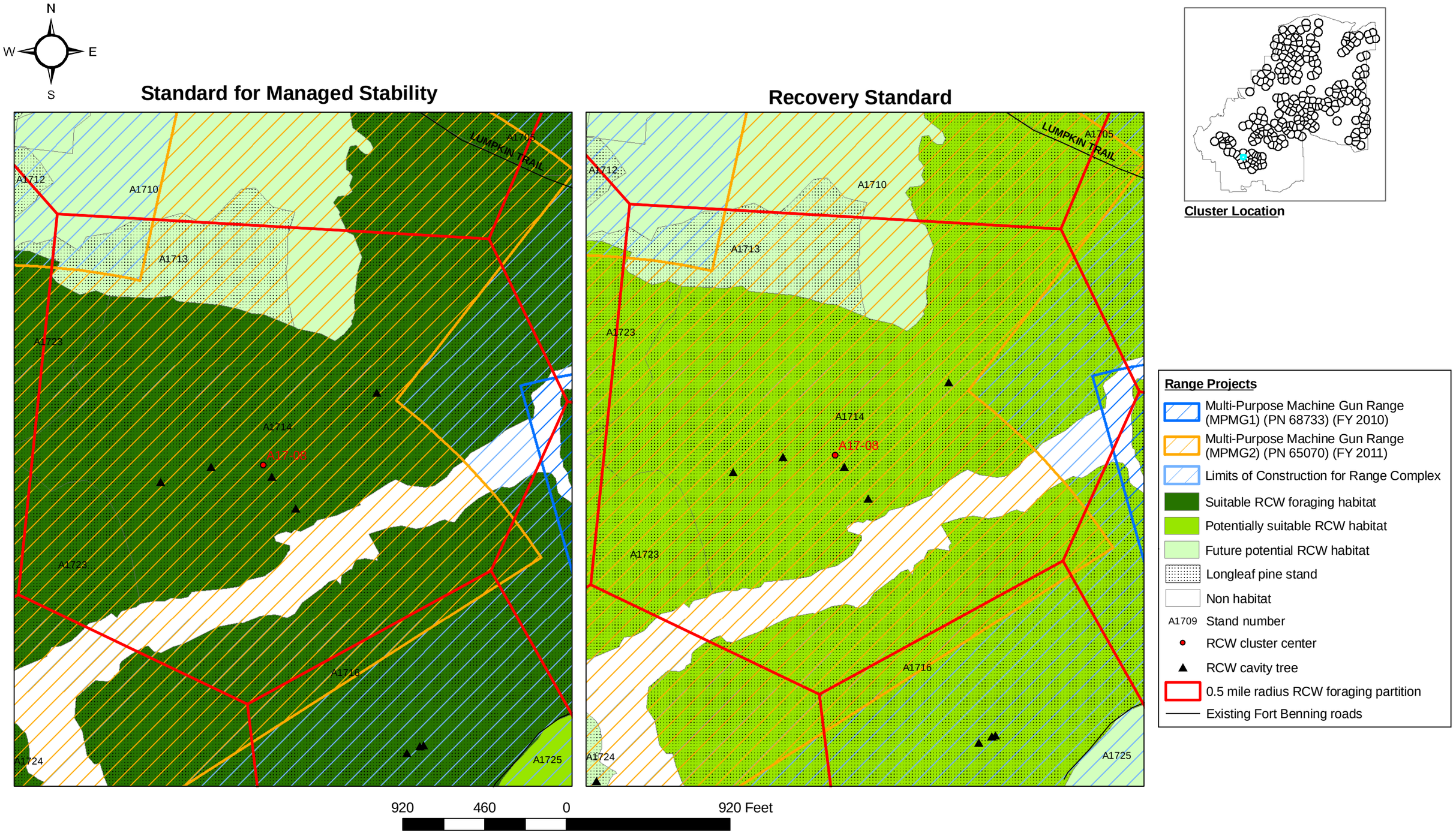
Appendix Figure I-20. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A17-06** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.



Appendix Figure I-21. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A17-07** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.



Appendix Figure I-22. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A17-08** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.



Appendix Figure I-23. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A17-08** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.

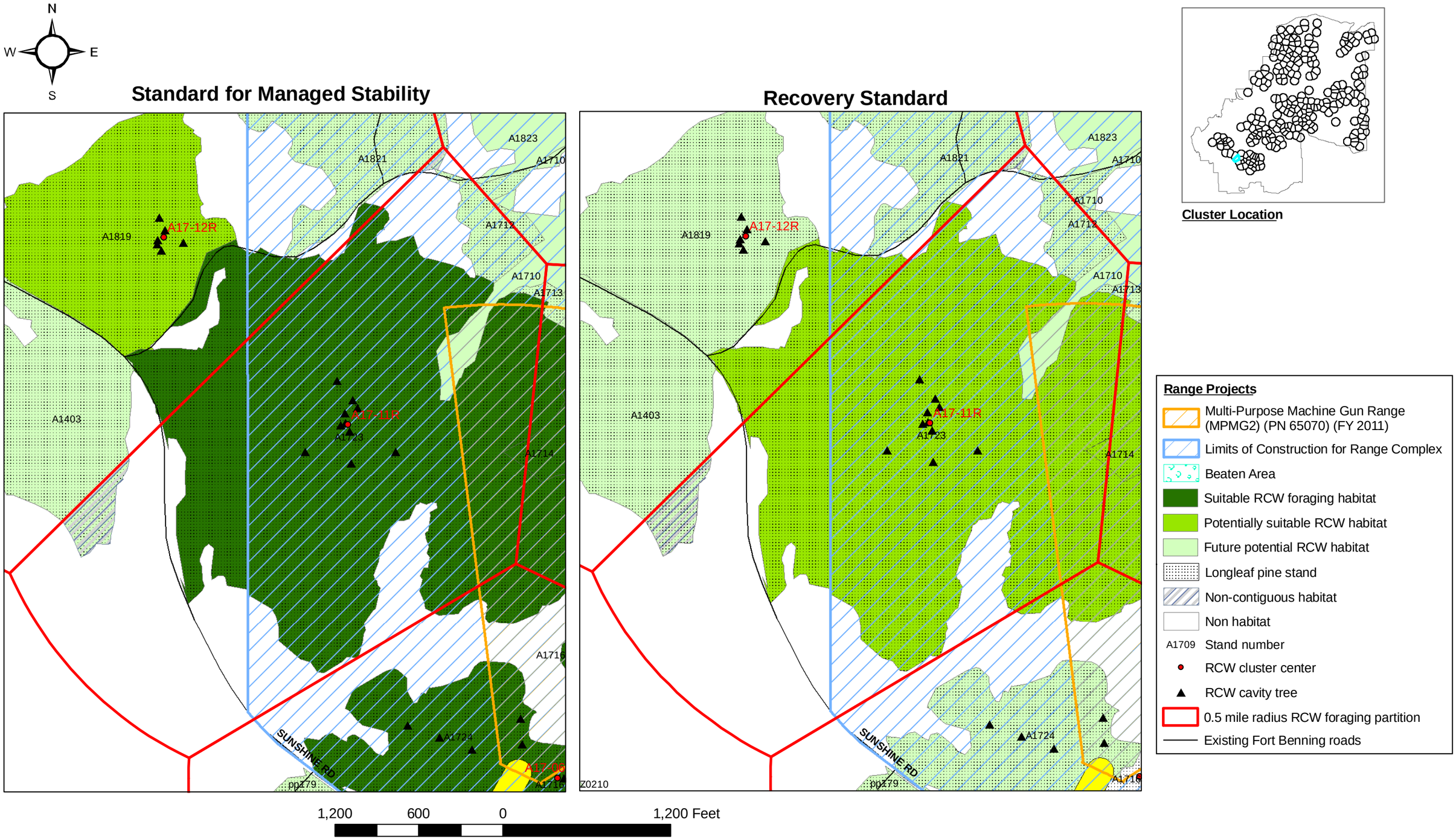
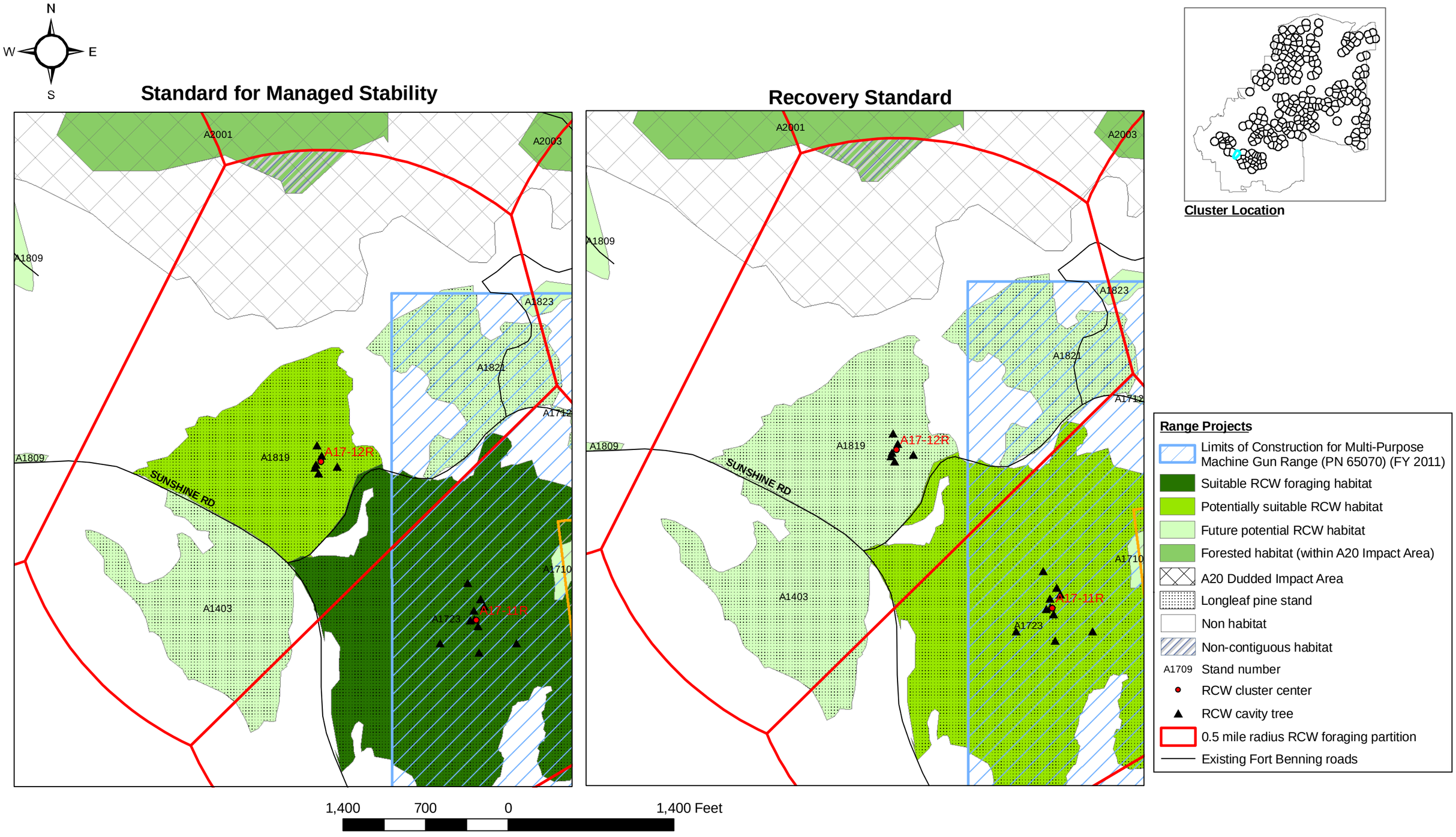
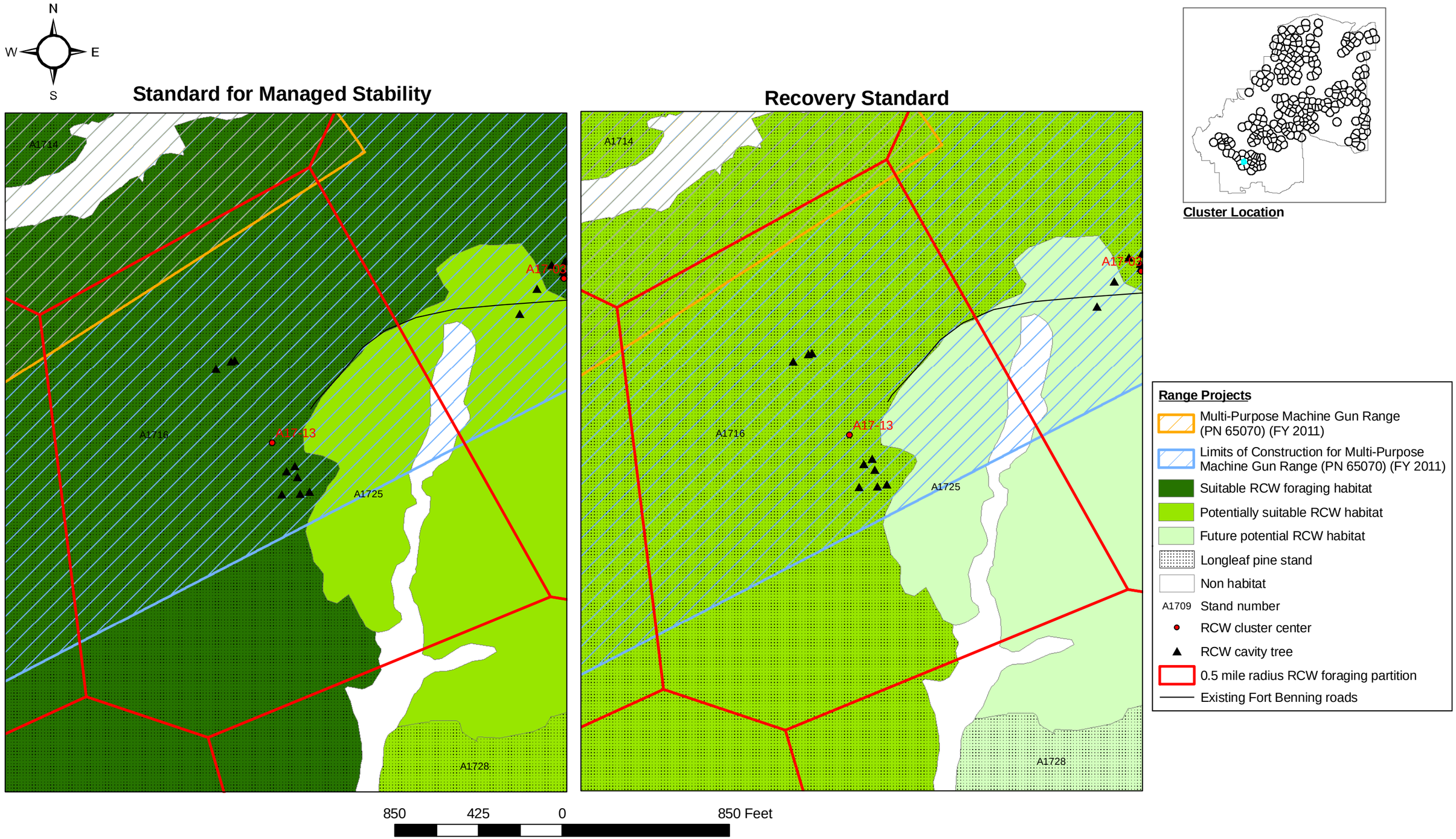


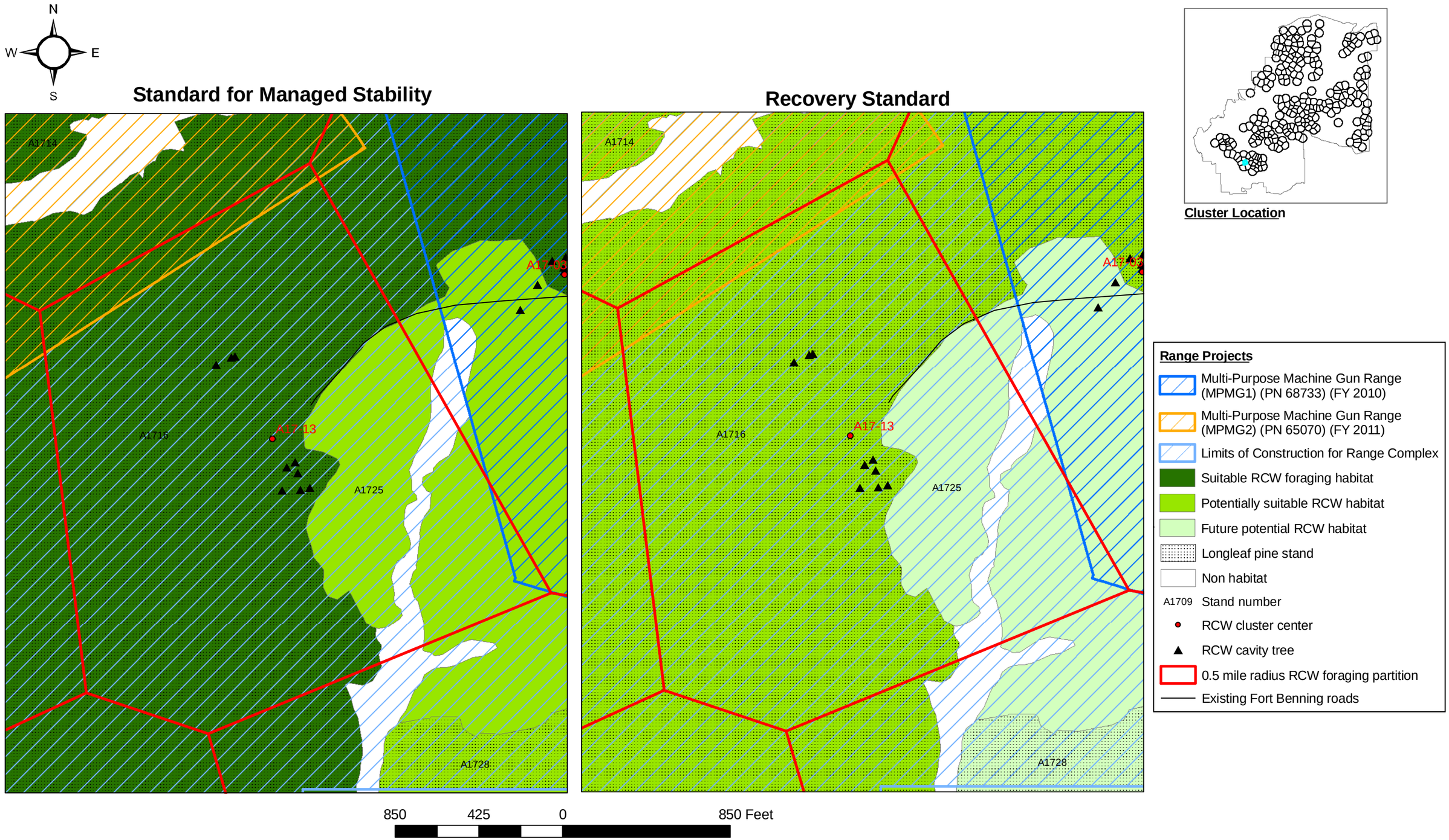
Figure I-24. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A17-11R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



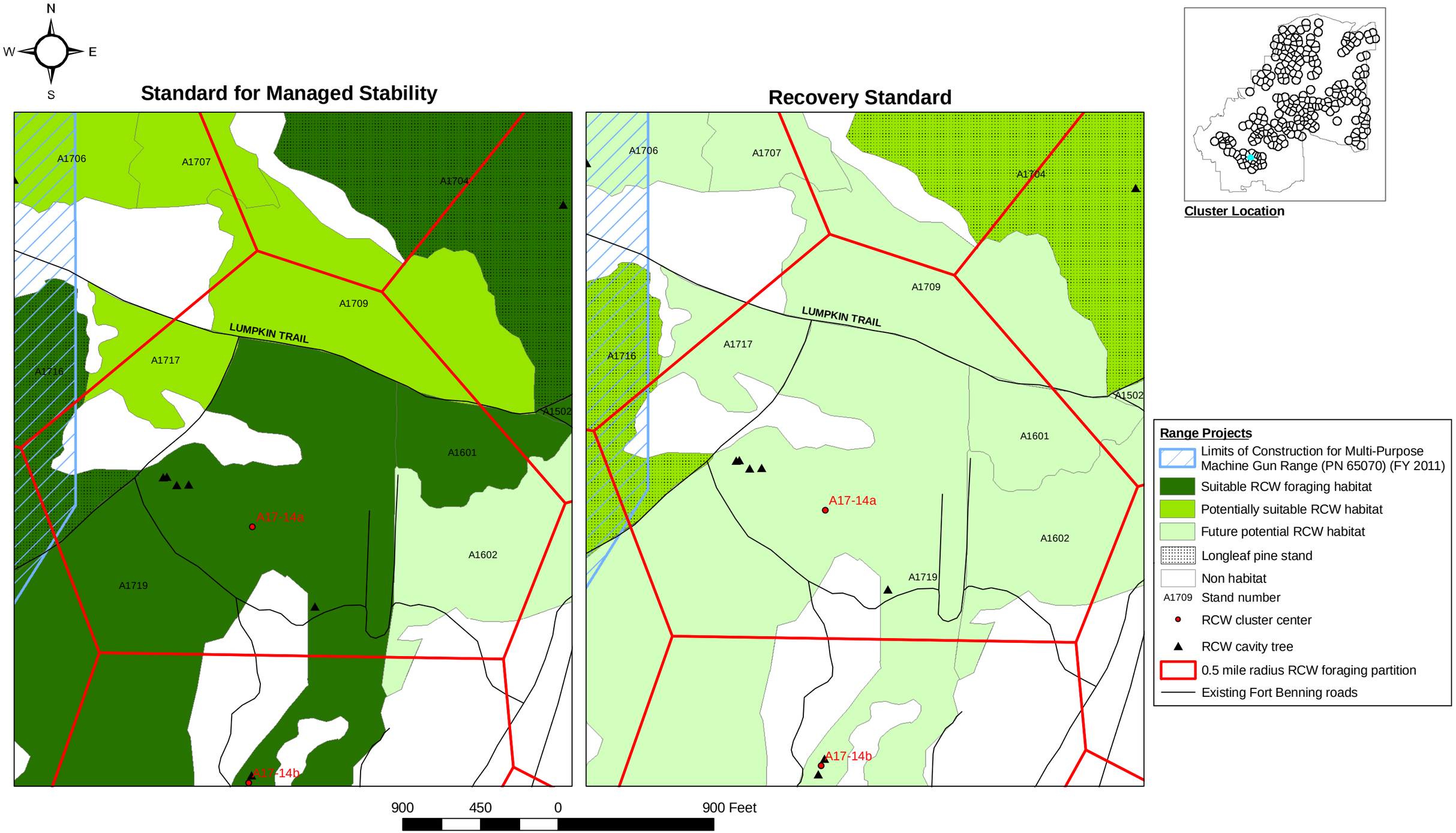
Appendix Figure I-25. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A17-12R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



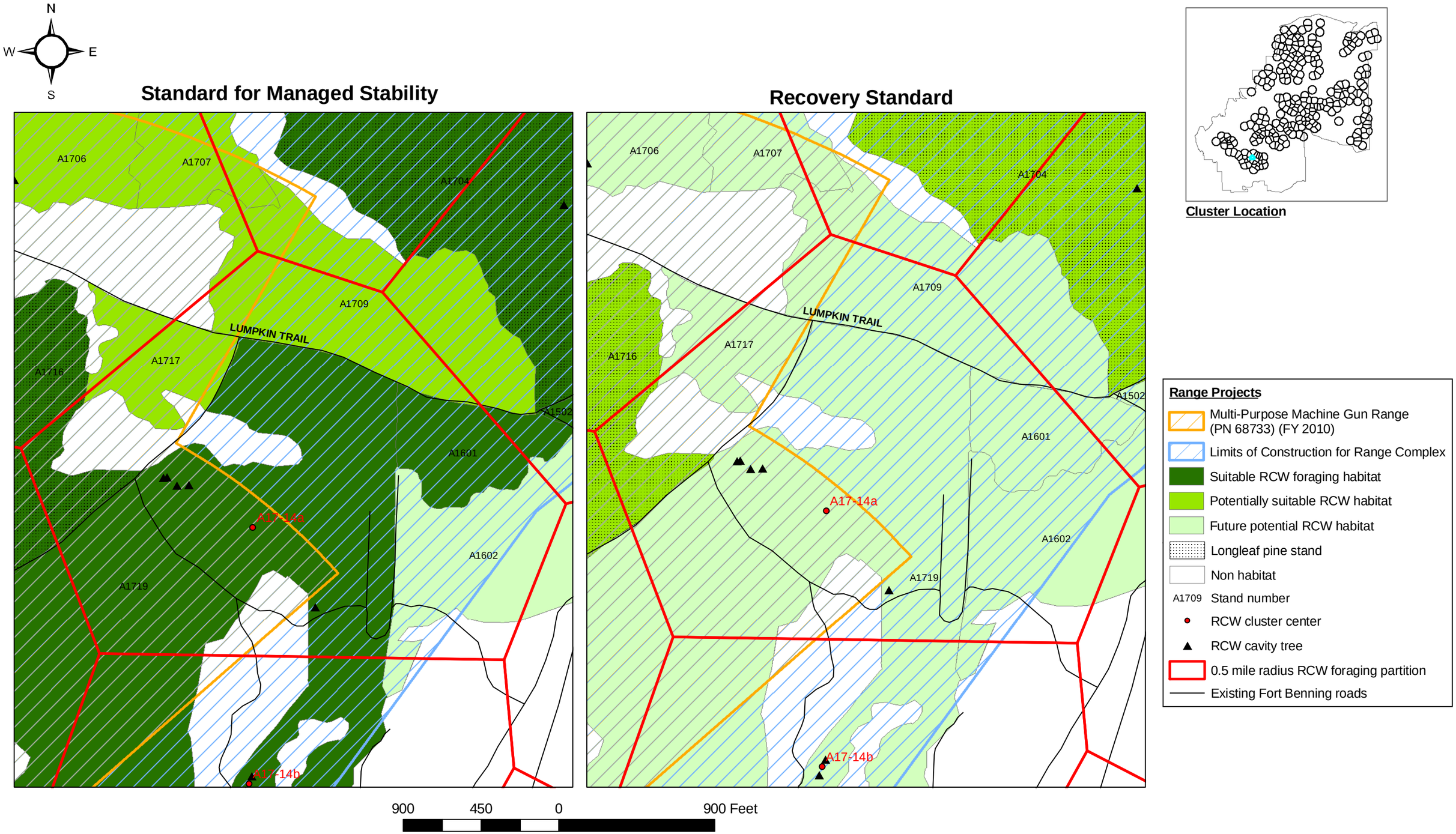
Appendix Figure I-26. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A17-13** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.



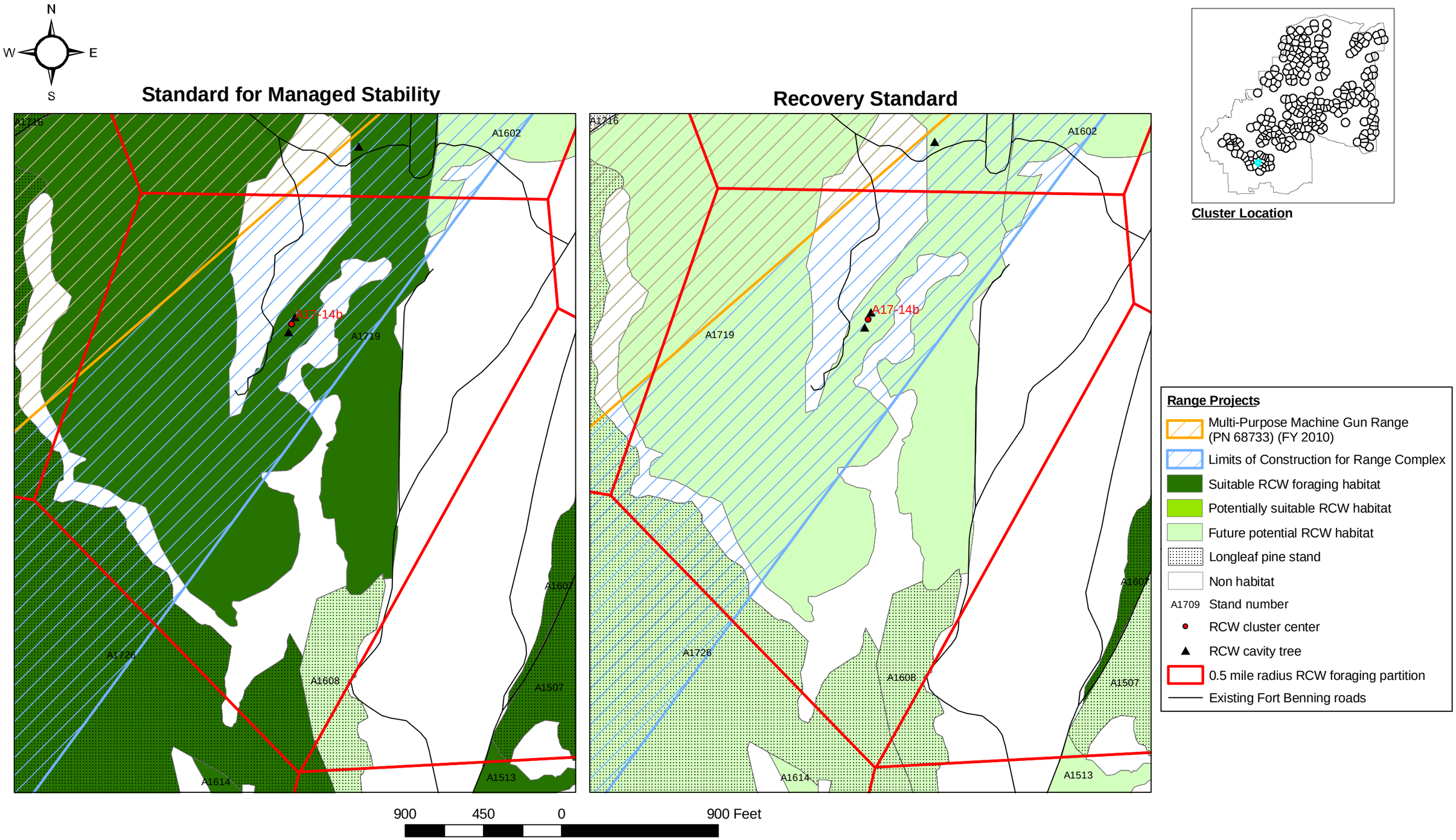
Appendix Figure I-27. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A17-13** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.



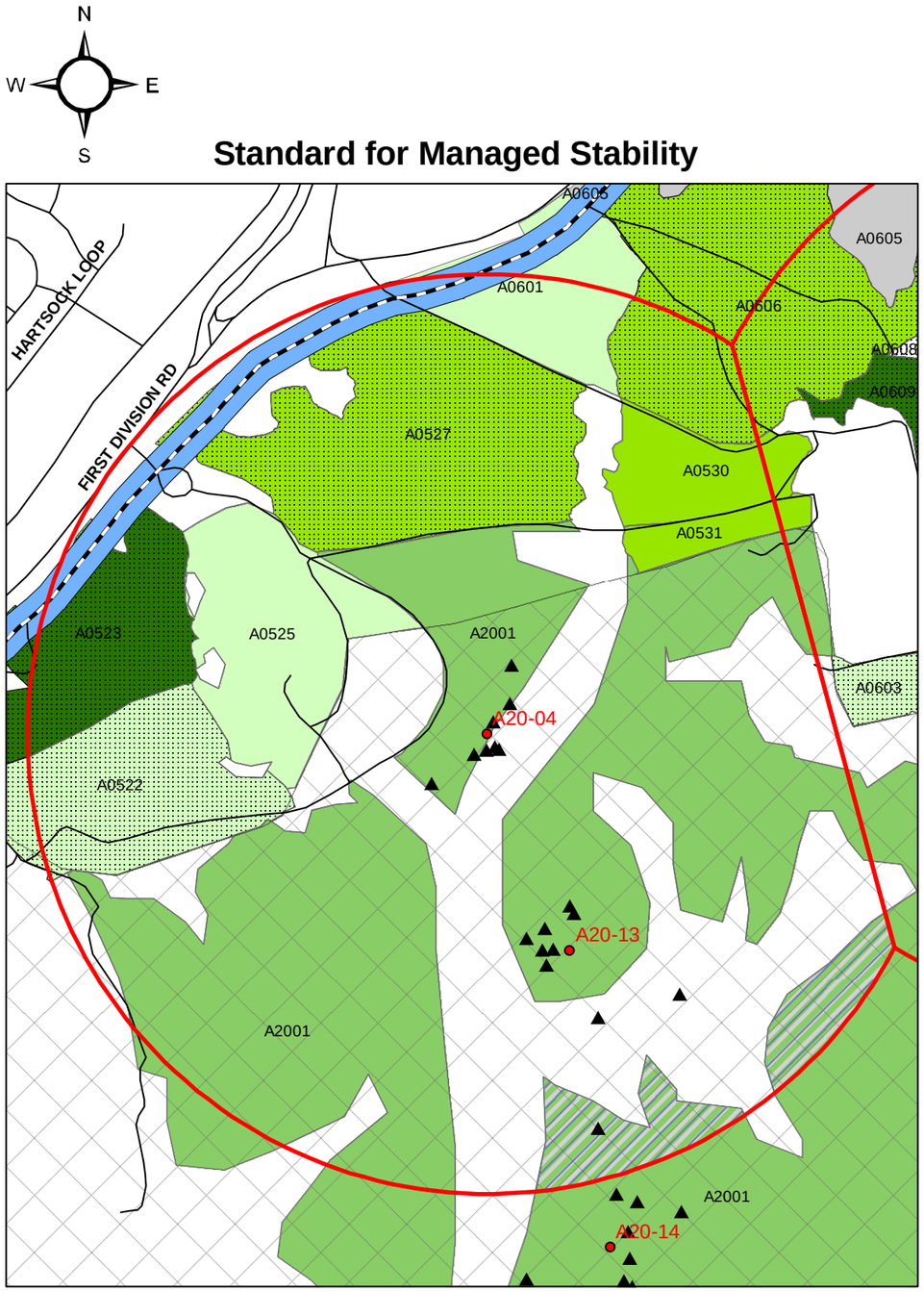
Appendix Figure I-28. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A17-14a** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.

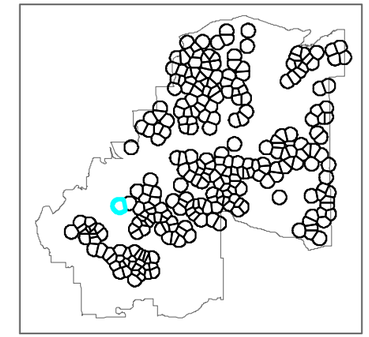


Appendix Figure I-29. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A17-14a** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.



Appendix Figure I-30. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A17-14b** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.





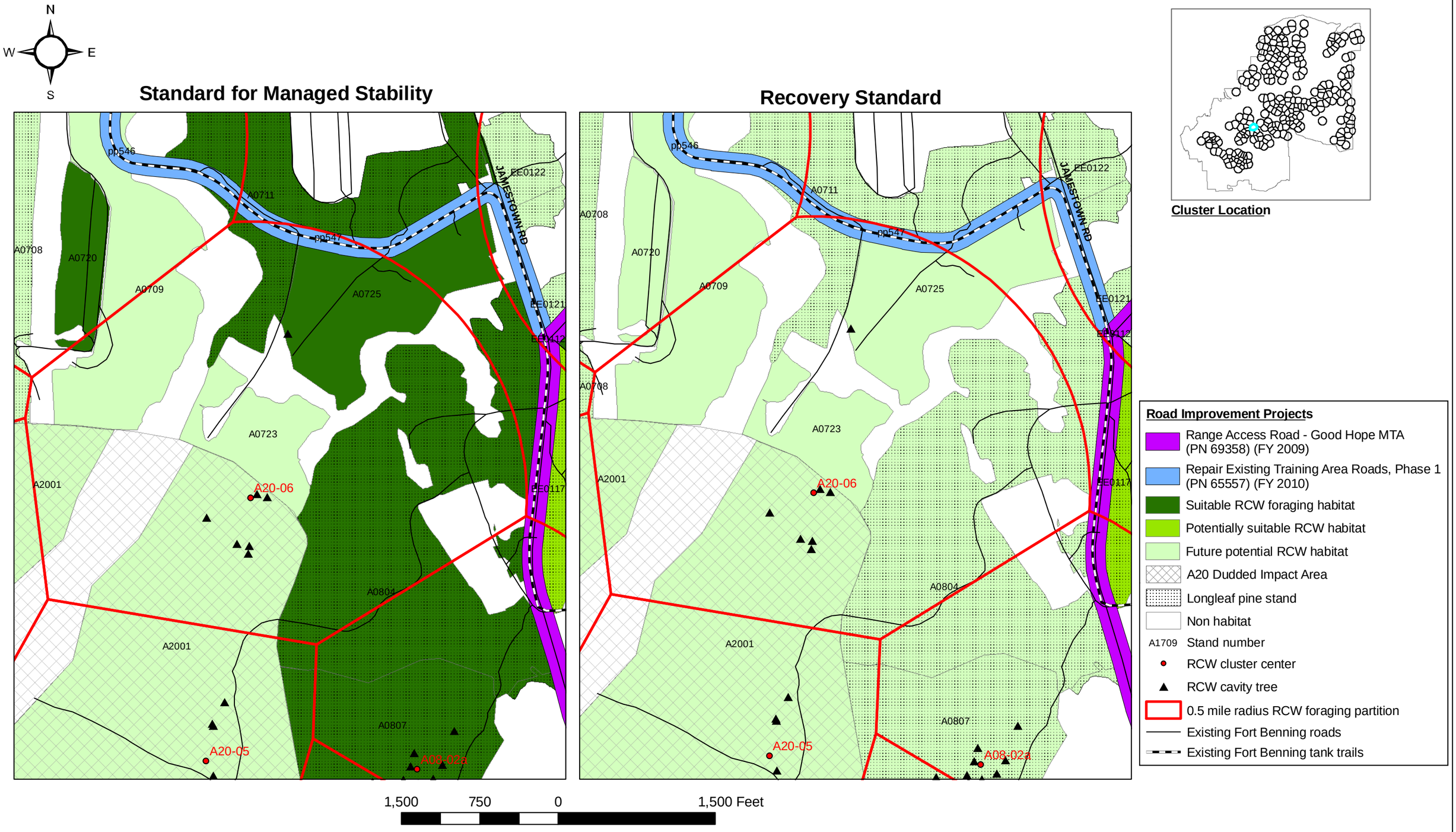
Cluster Location

Range Projects

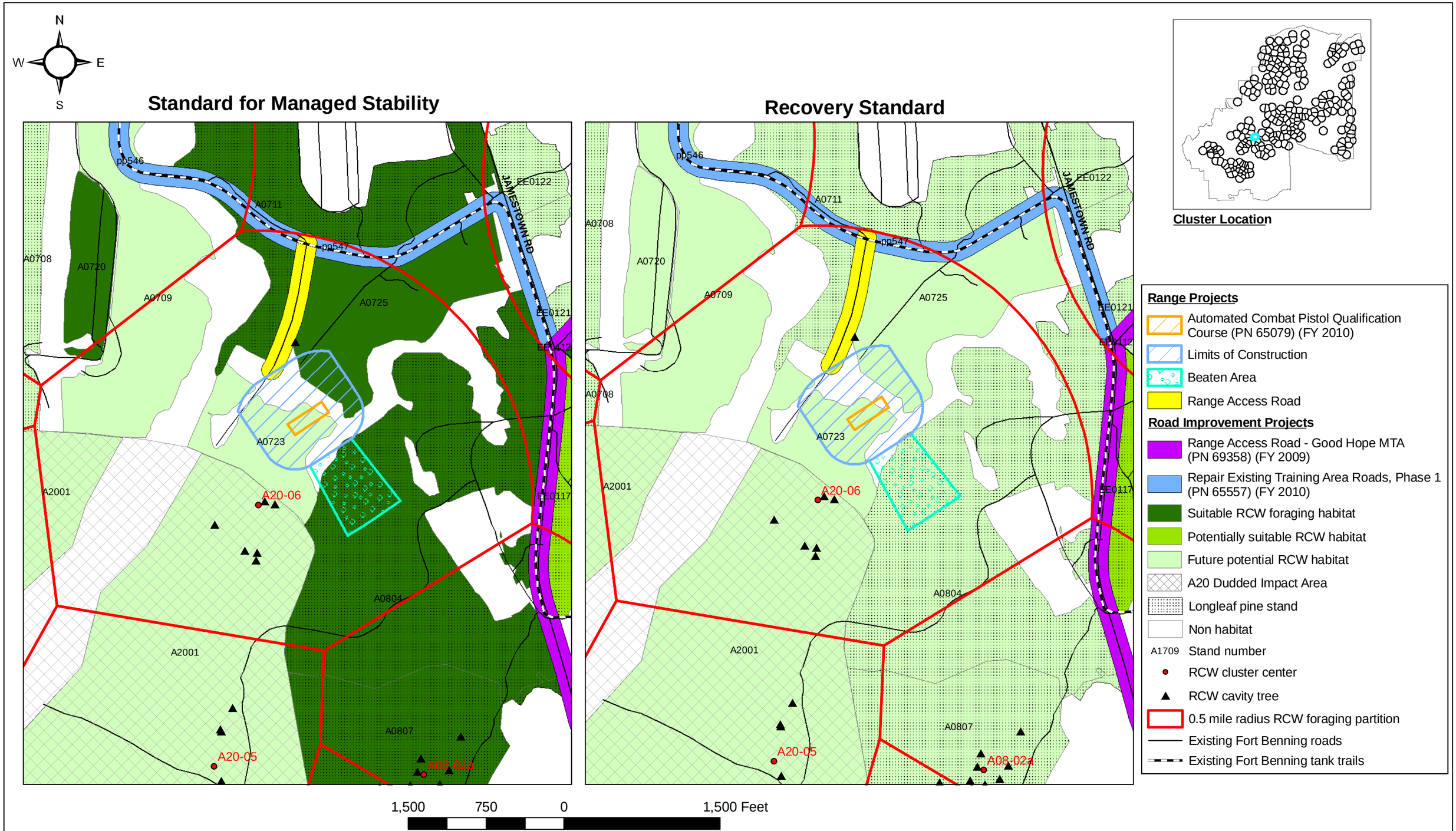
- Repair Existing Training Area Roads (PN 65557) (FY 2010)
- Suitable RCW foraging habitat
- Forested habitat (within A20 Impact Area)
- Future potential RCW habitat
- Forested habitat (within A20 Impact Area)
- Longleaf pine stand
- A20 Dudded Impact Area
- Non habitat
- Non-contiguous habitat
- A1709 Stand number
- RCW cluster center
- RCW cavity tree
- 0.5 mile radius RCW foraging partition
- Existing Fort Benning roads

1,800 900 0 1,800 Feet

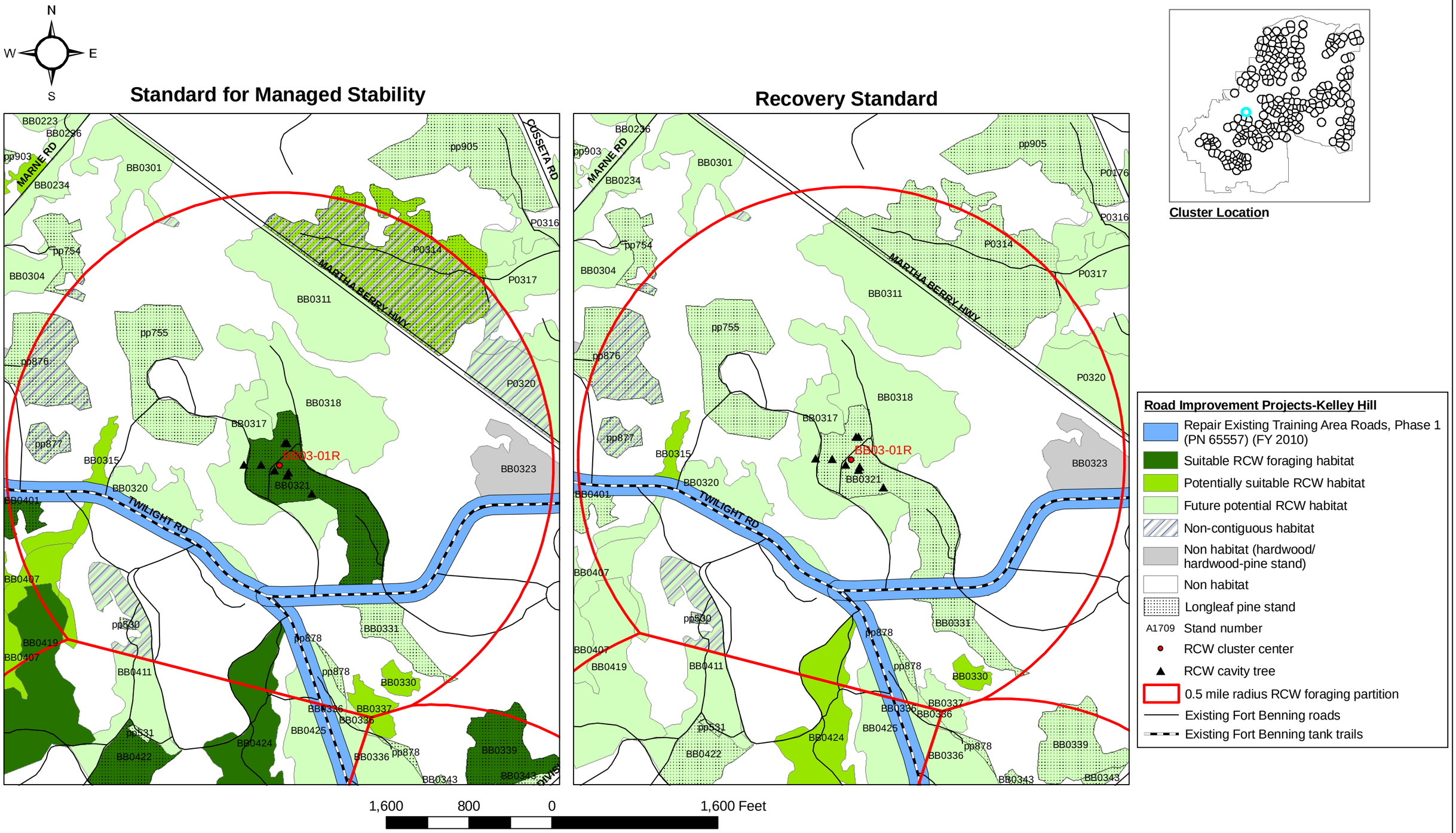
Appendix Figure I-31. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A20-04** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



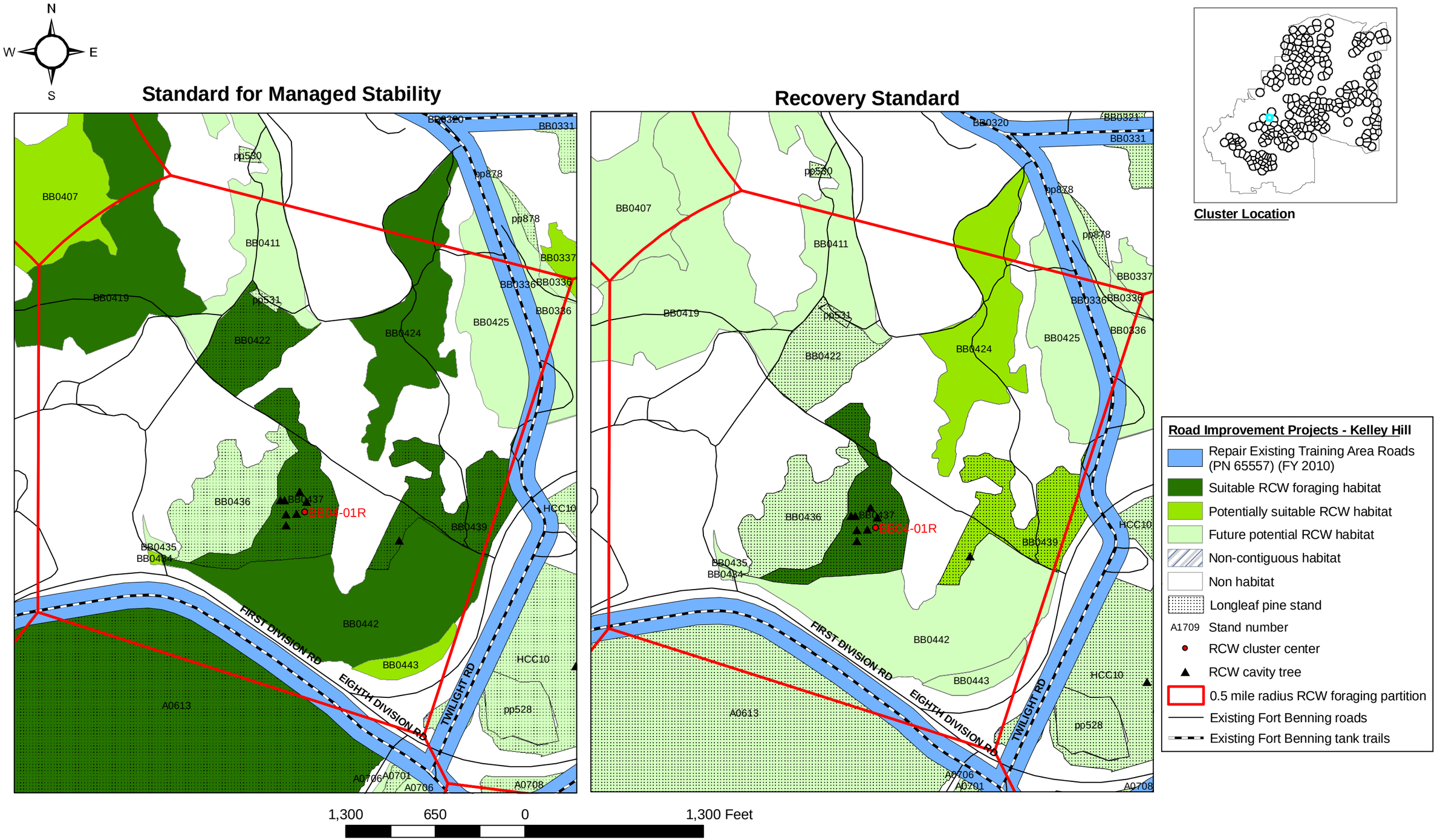
Appendix Figure I-32. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A20-06** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.



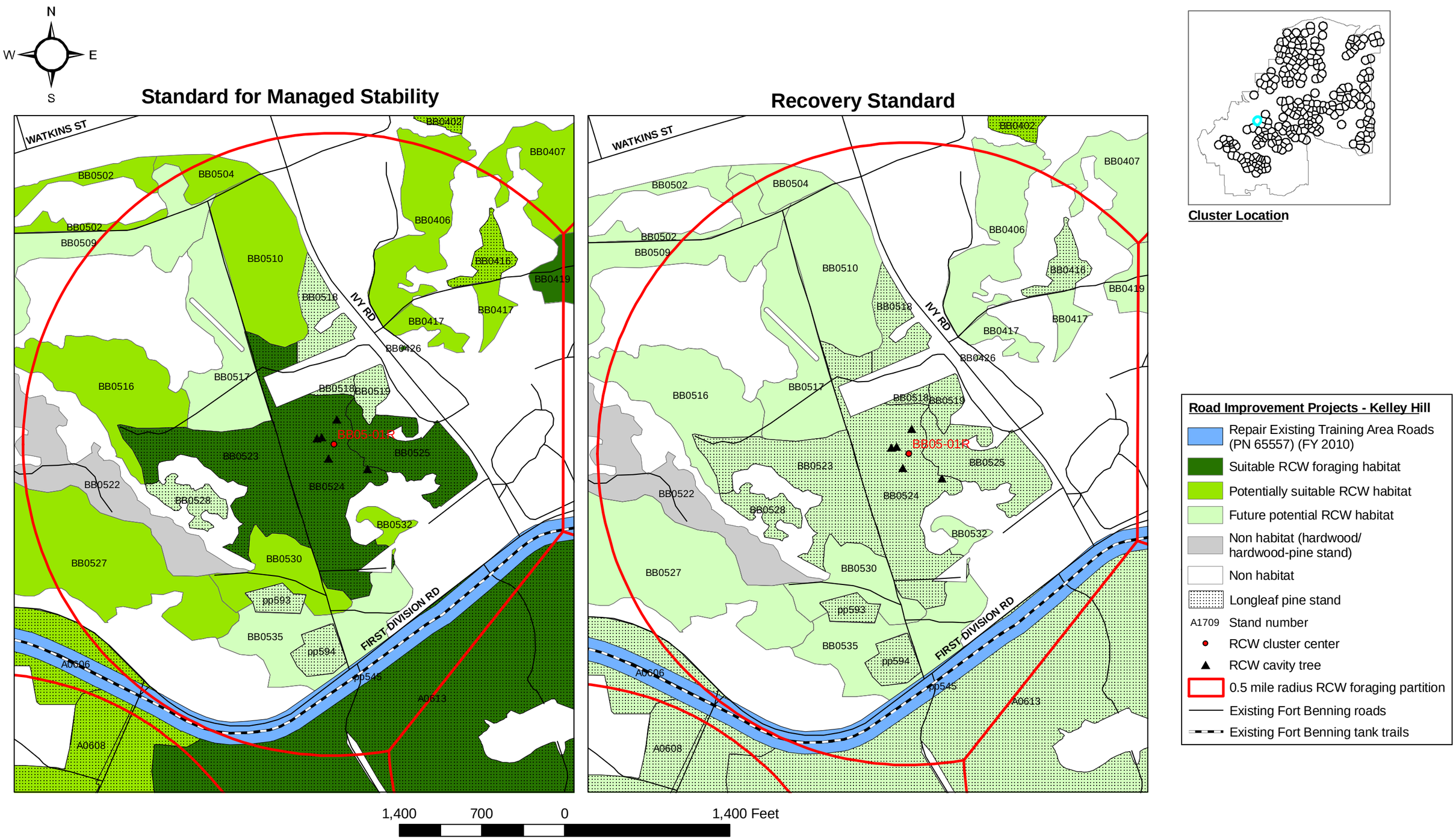
Appendix Figure I-33. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **A20-06** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.



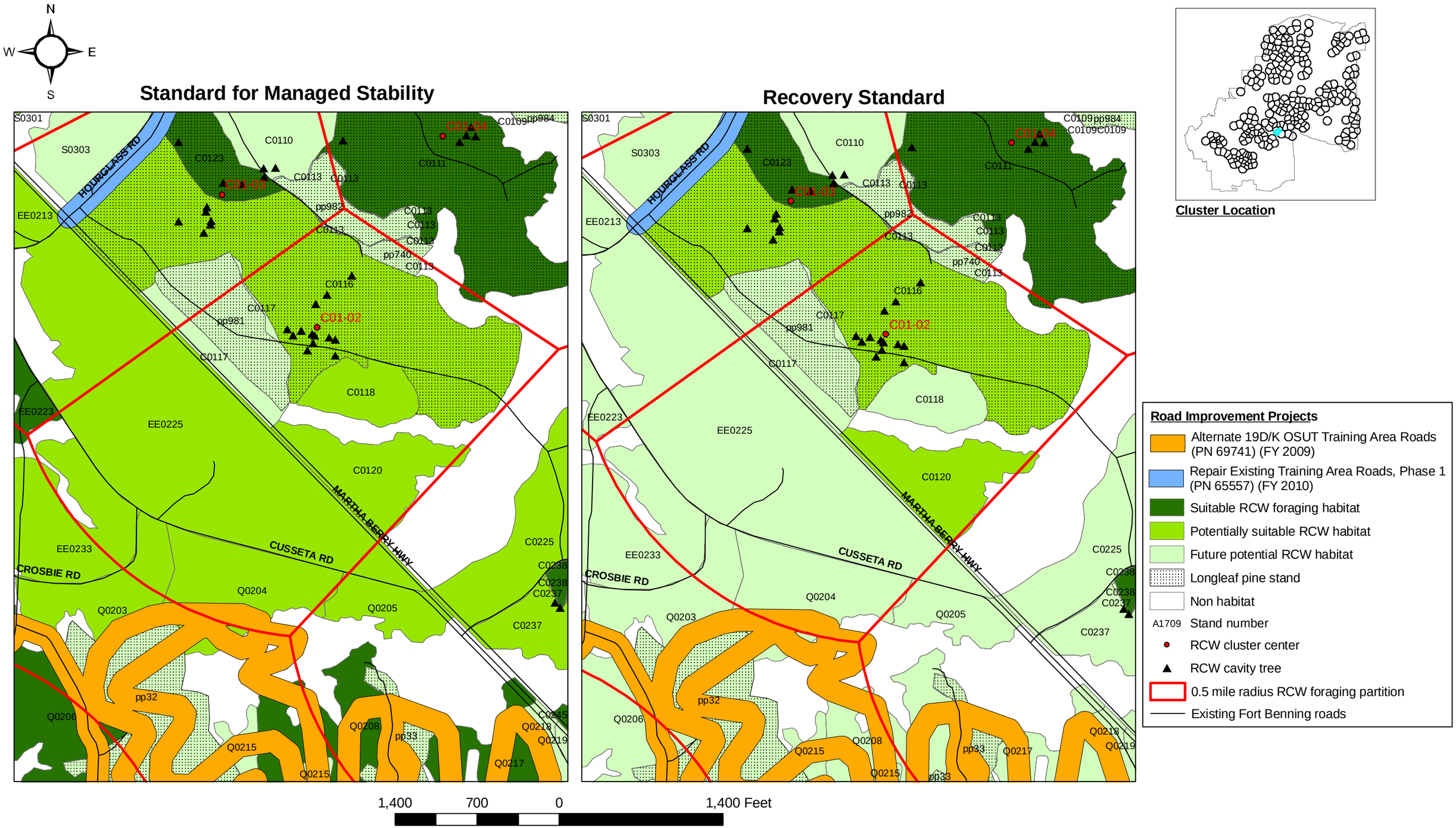
Appendix Figure I-34. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **BB03-01R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



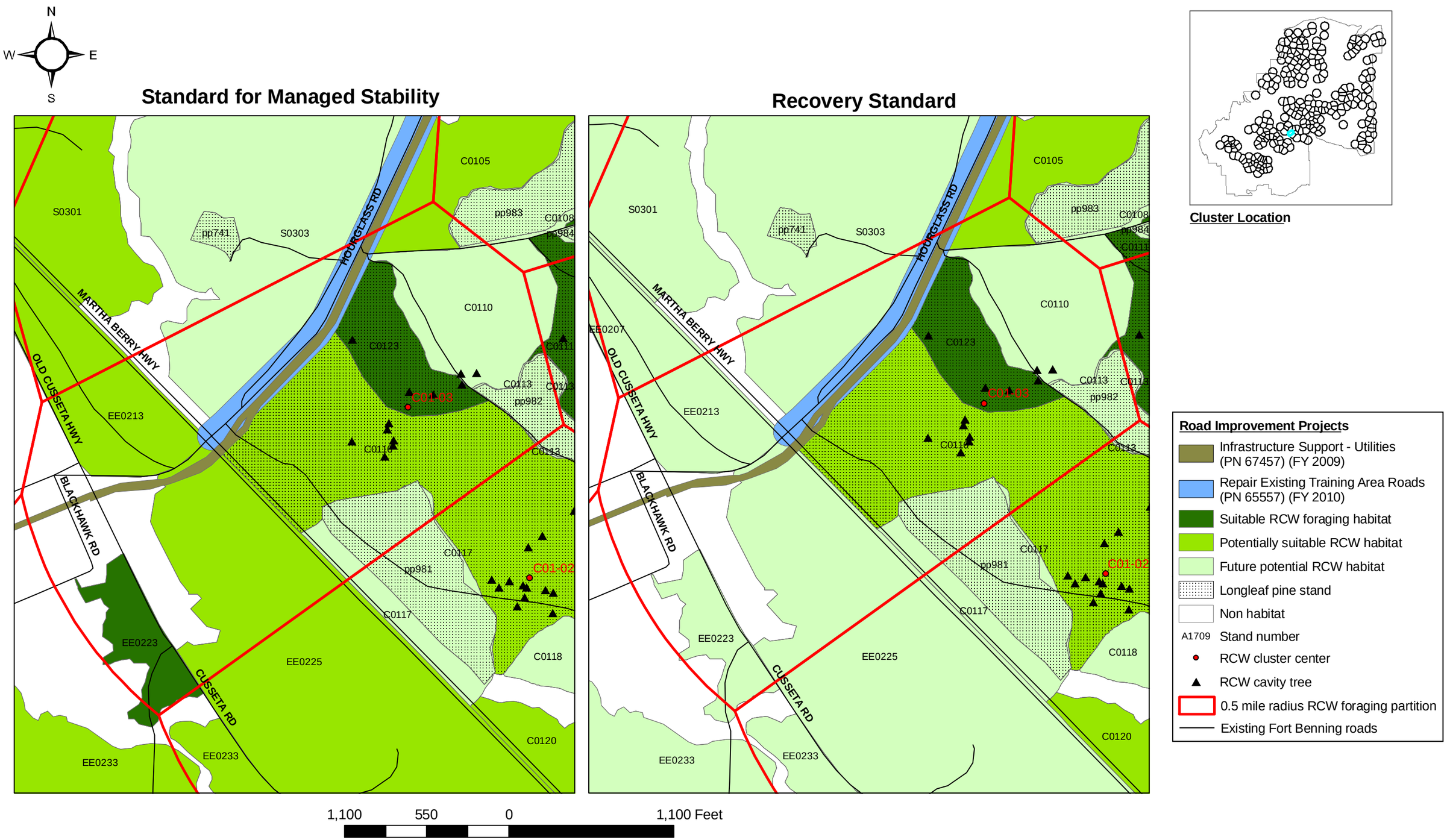
Appendix Figure I-35. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **BB04-01R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



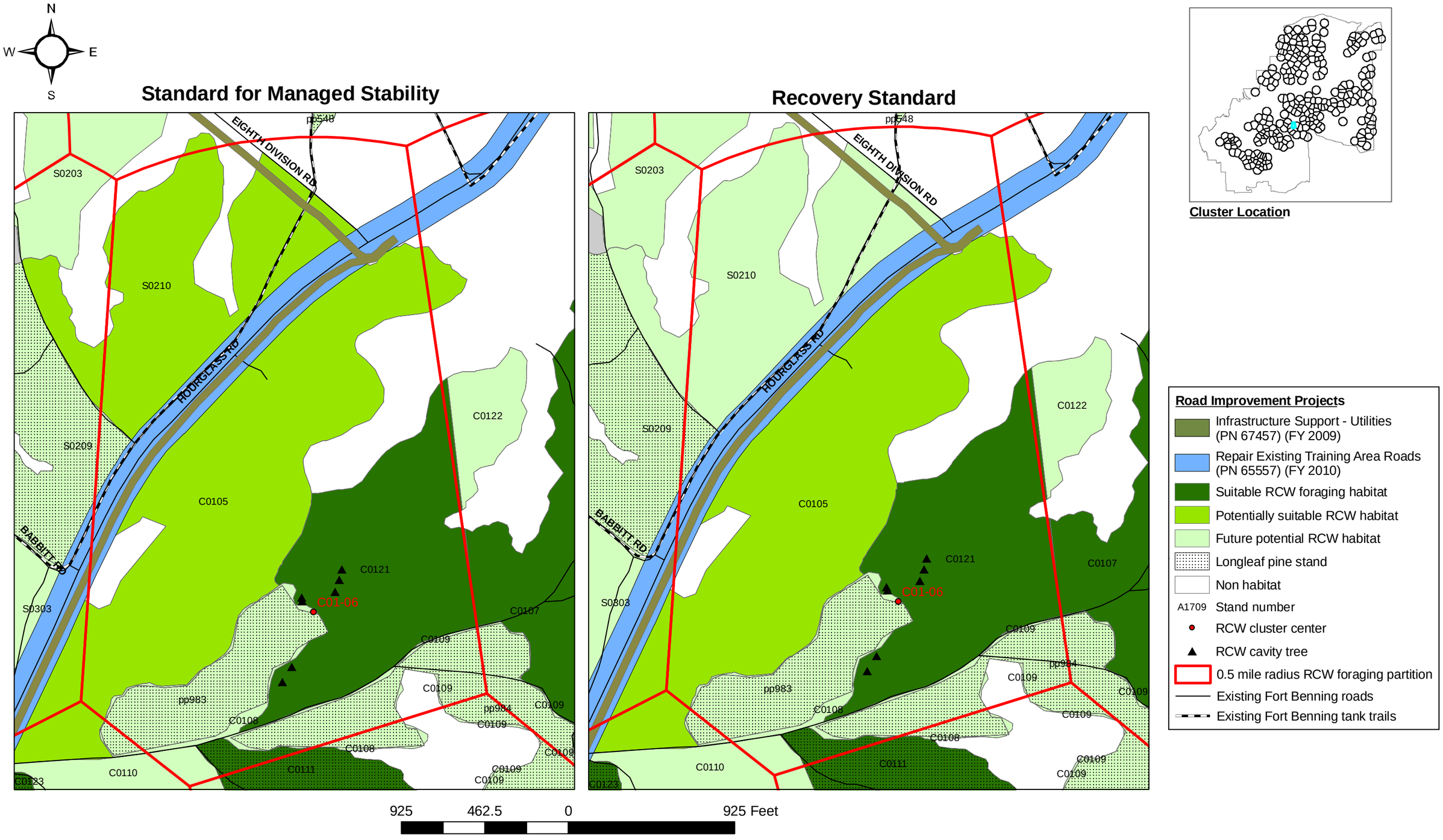
Appendix Figure I-36. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **BB05-01R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



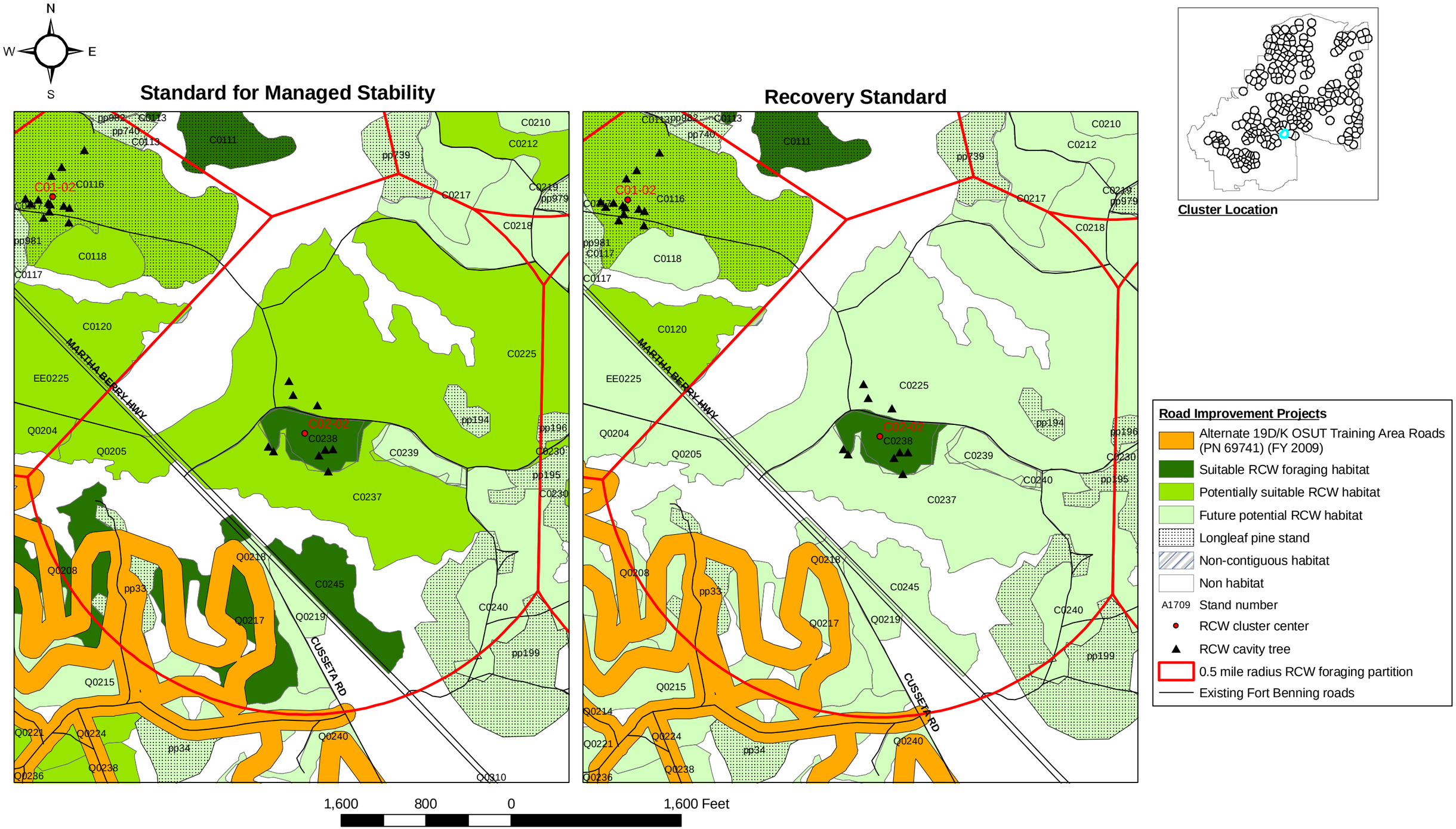
Appendix Figure I-37. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **C01-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.



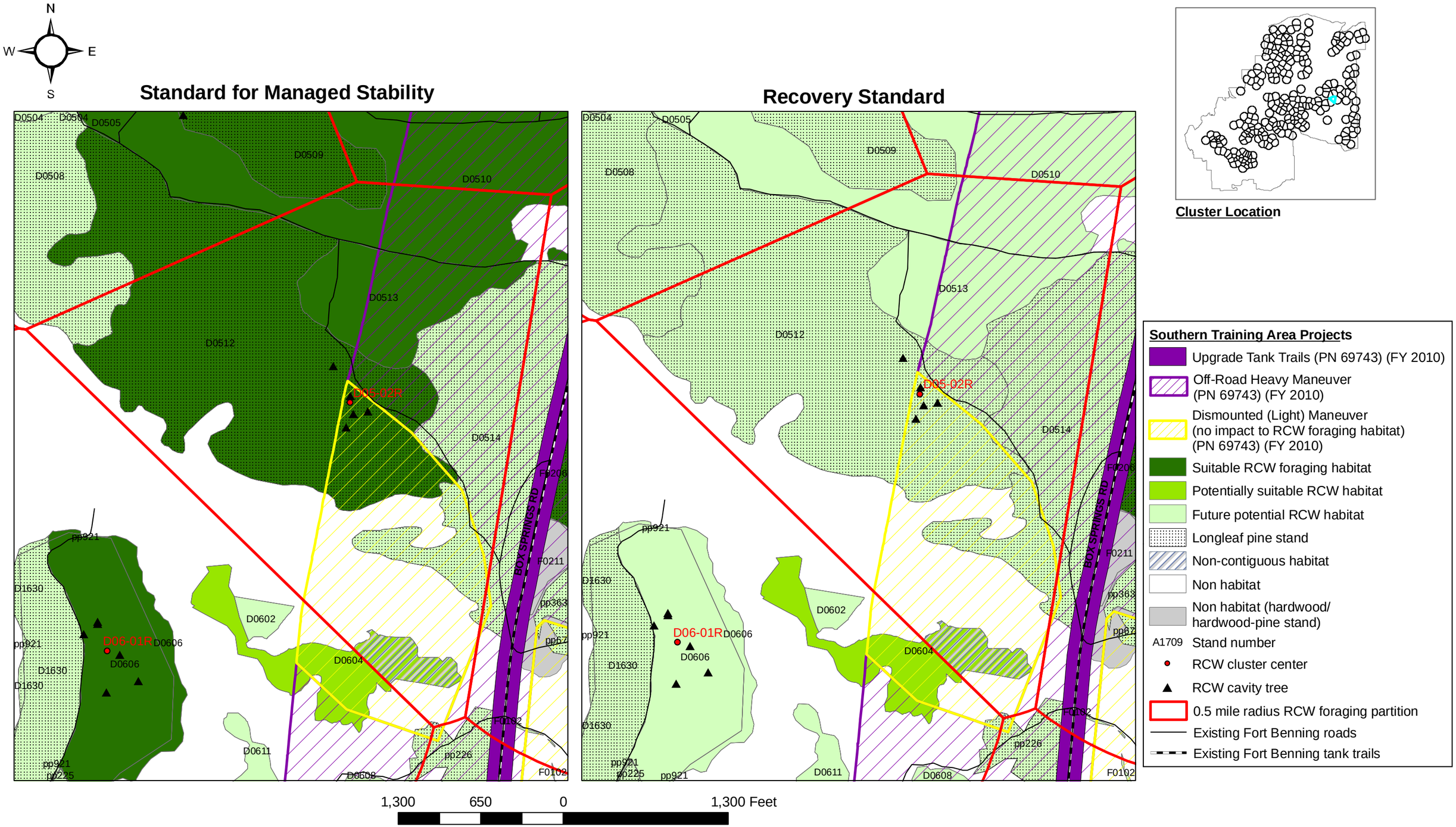
Appendix Figure I-38. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **C01-03** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



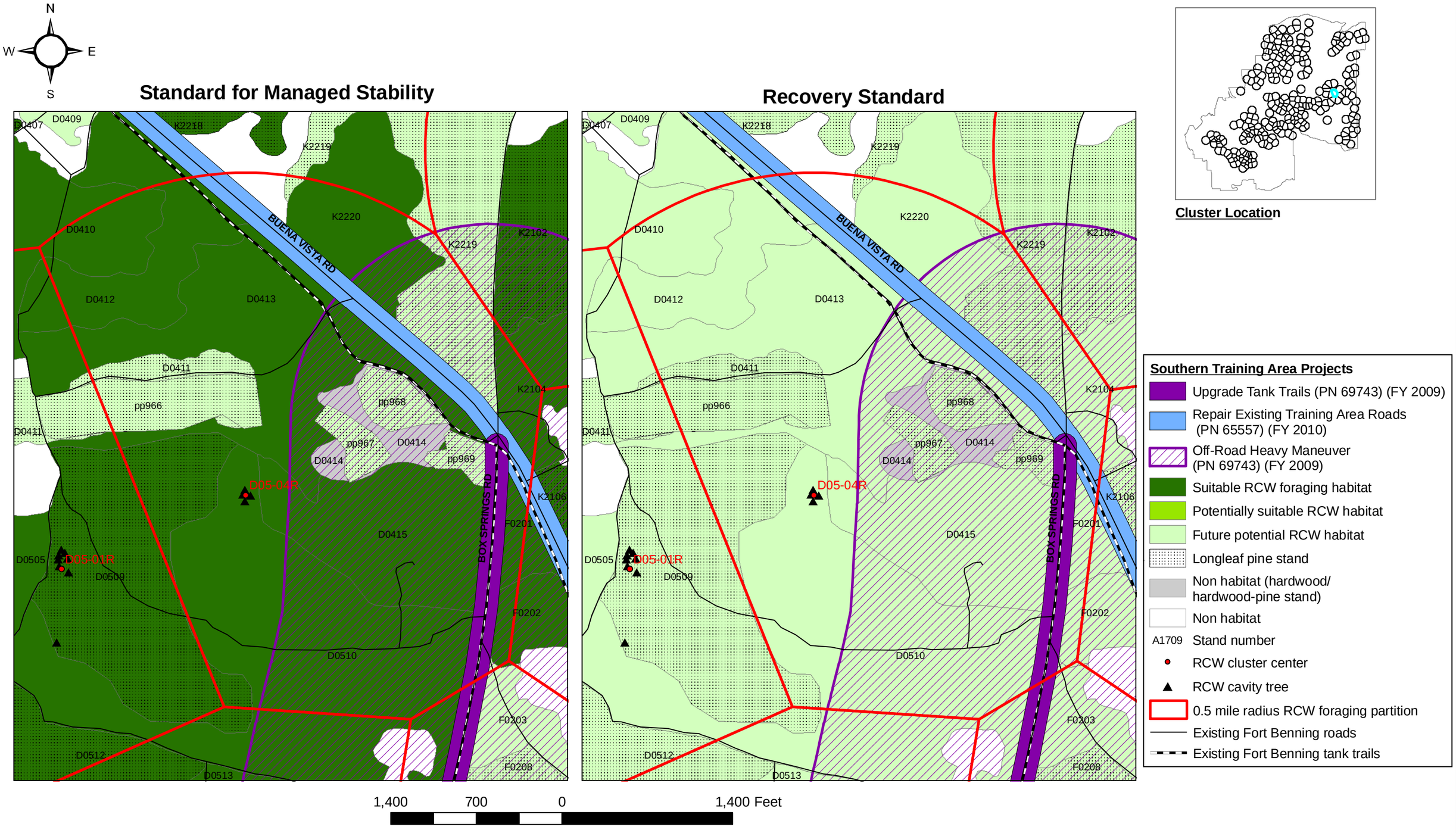
Appendix Figure I-39. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **C01-06** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



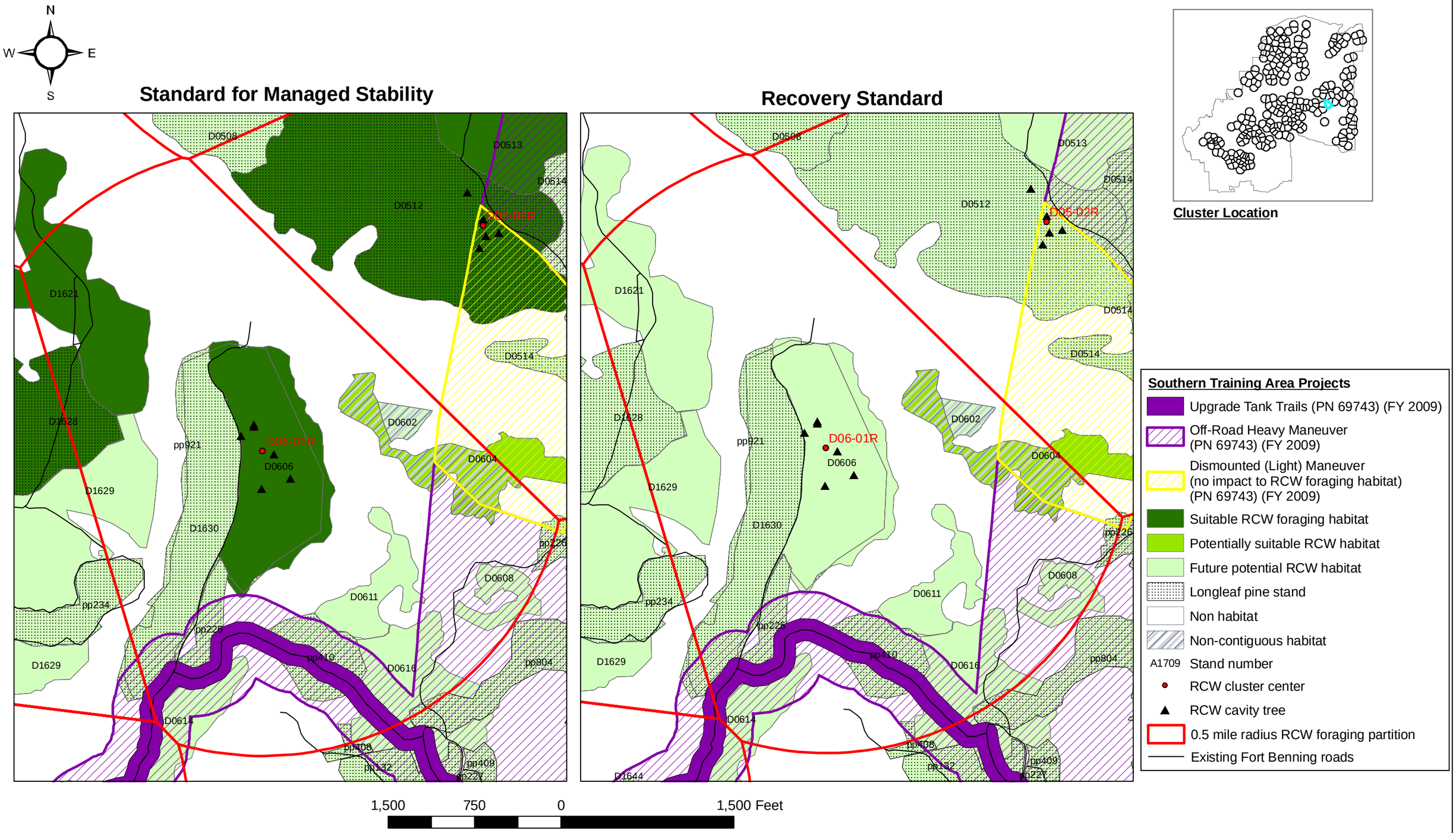
Appendix Figure I-40. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **C02-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.



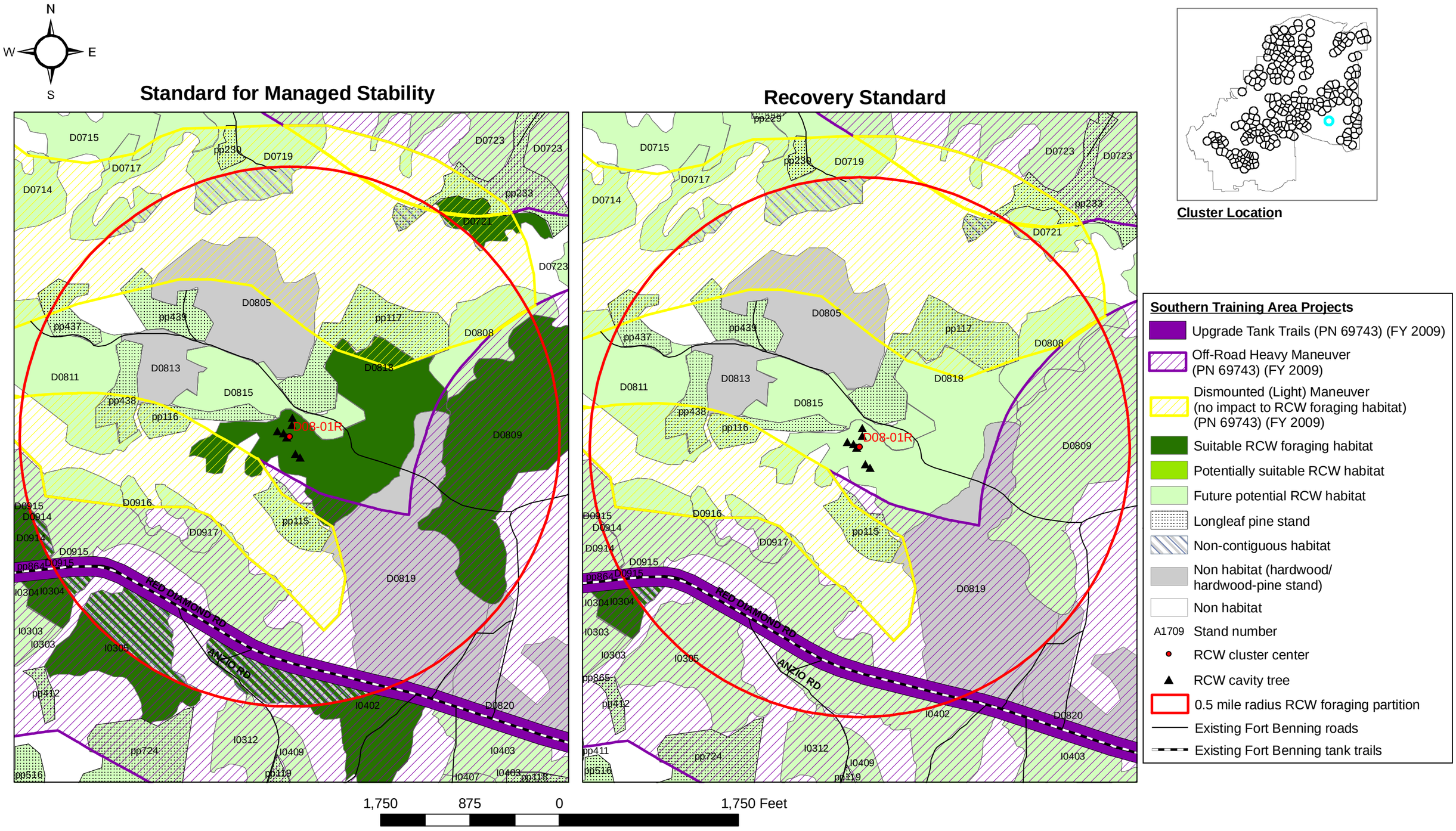
Appendix Figure I-41. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **D05-02R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



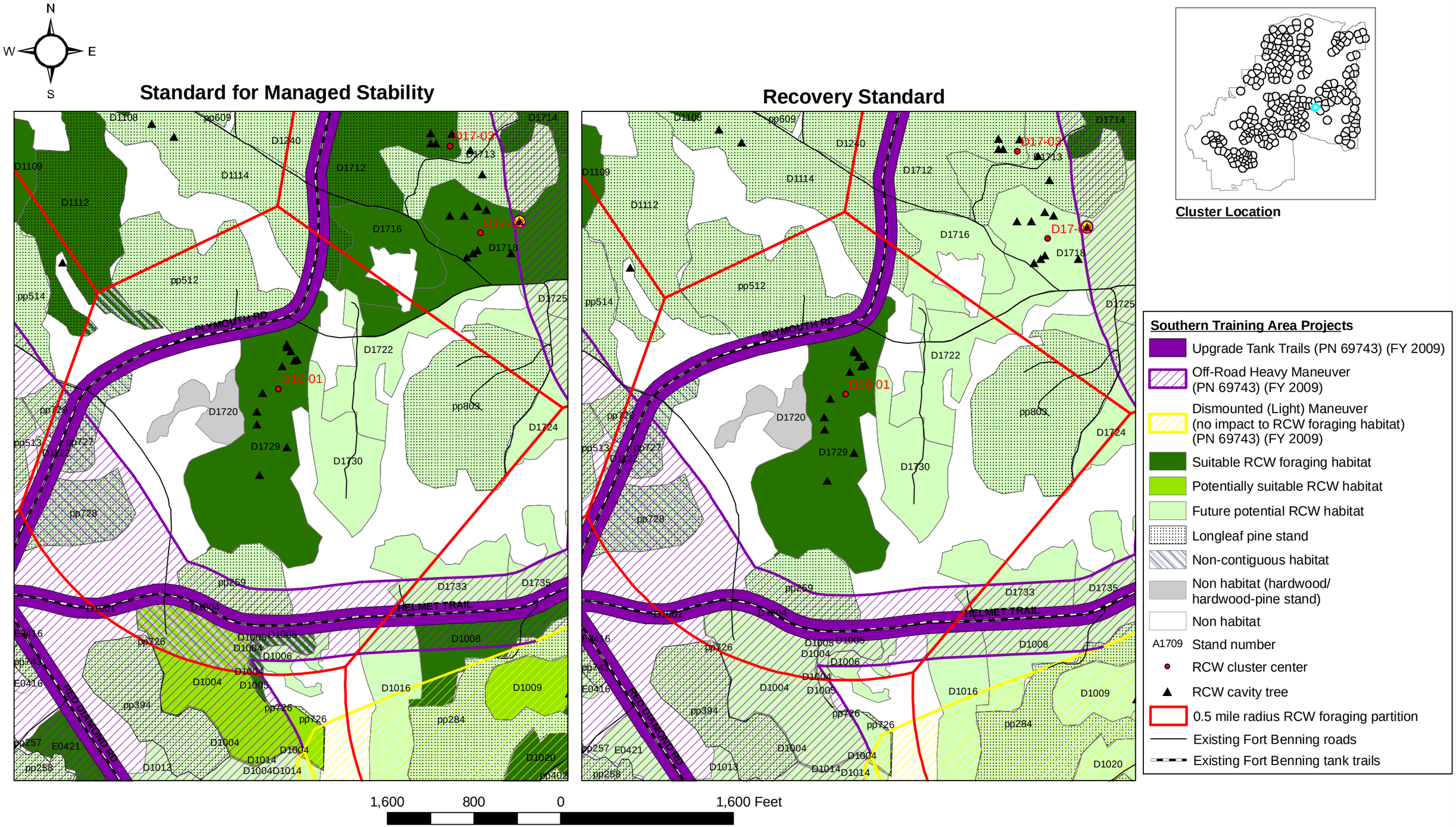
Appendix Figure I-42. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **D05-04R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



Appendix Figure I-43. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **D06-01R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.

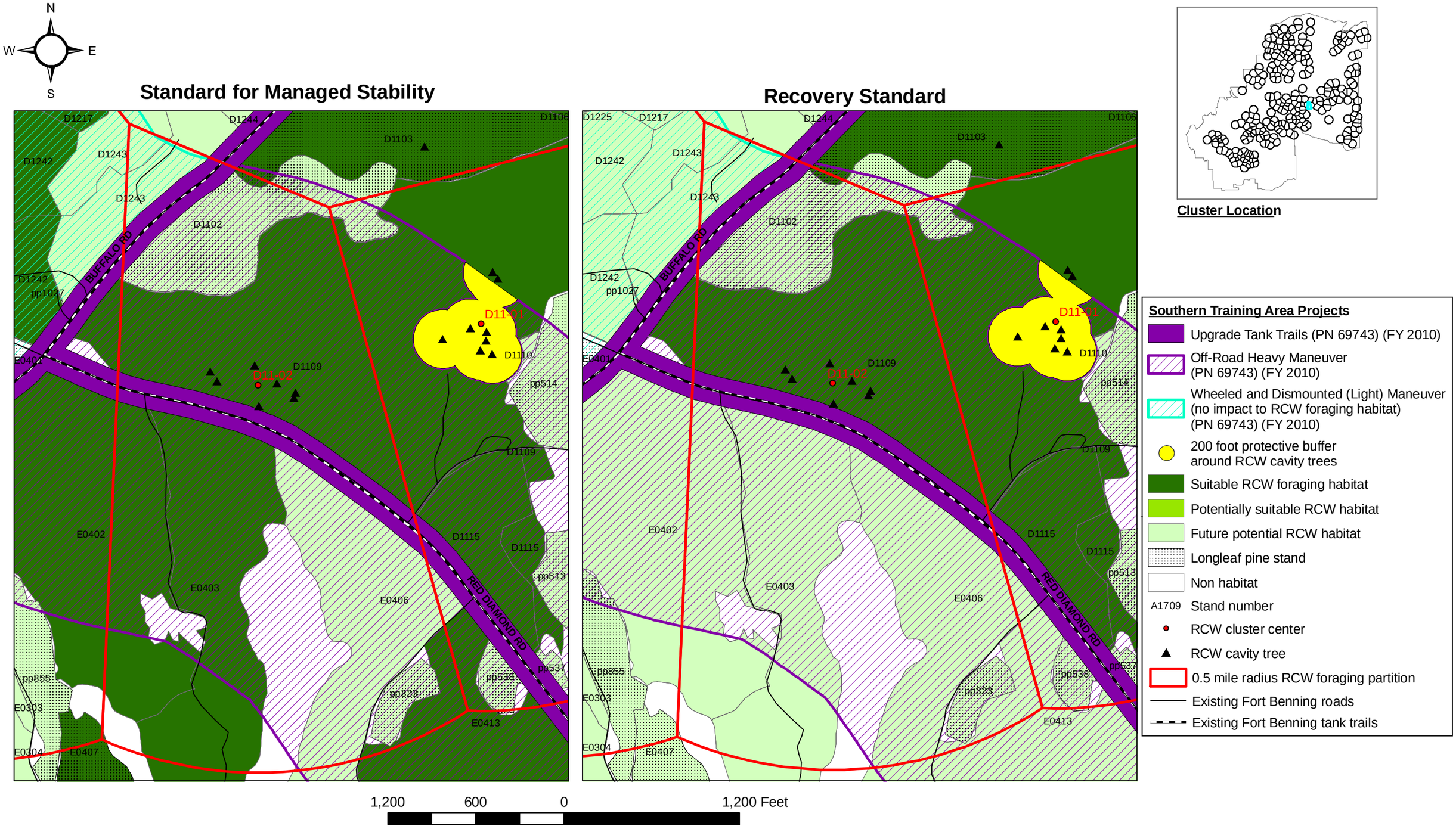


Appendix Figure I-44. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **D08-01R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.

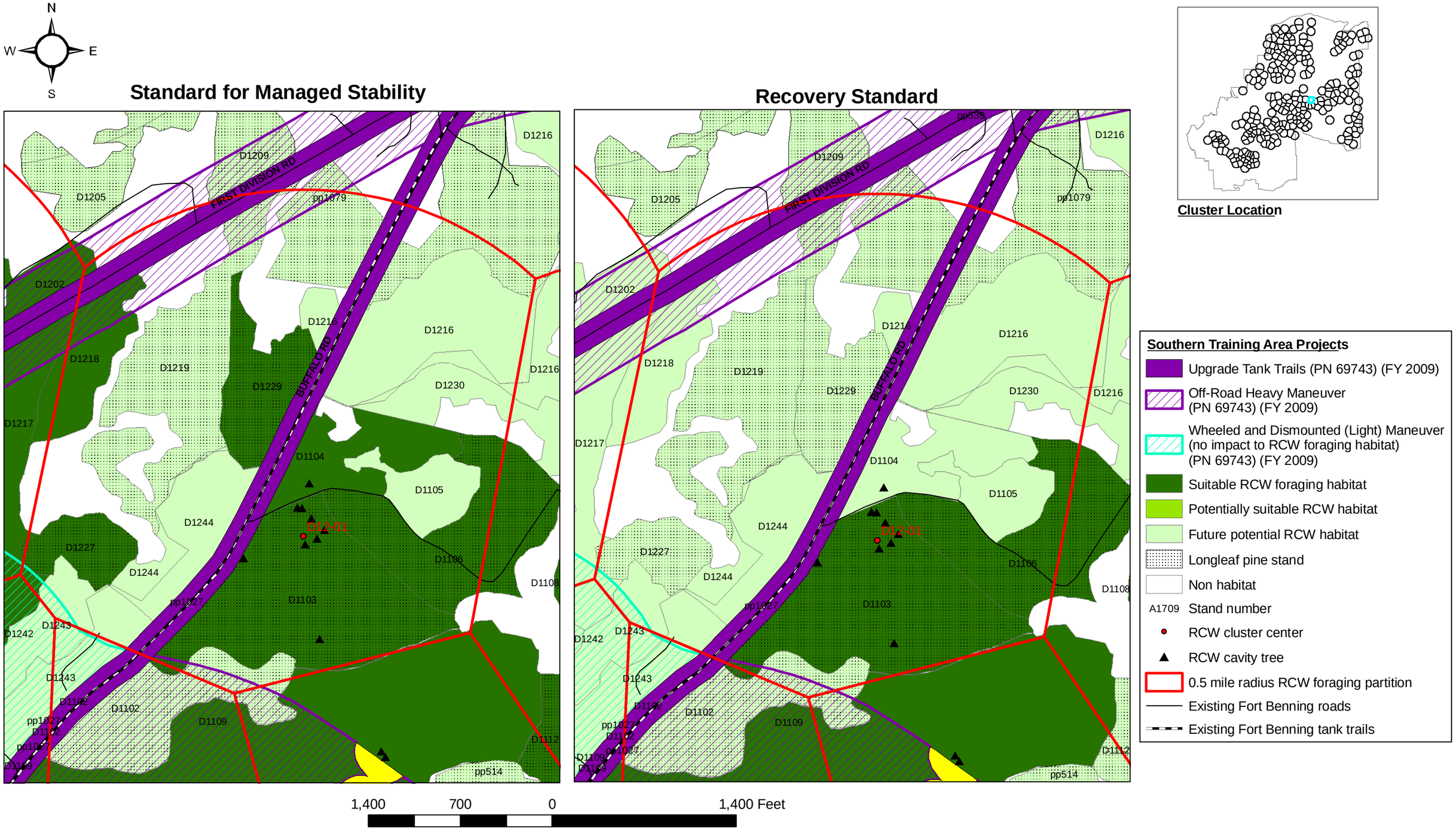


Appendix Figure I-45. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **D10-01R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.

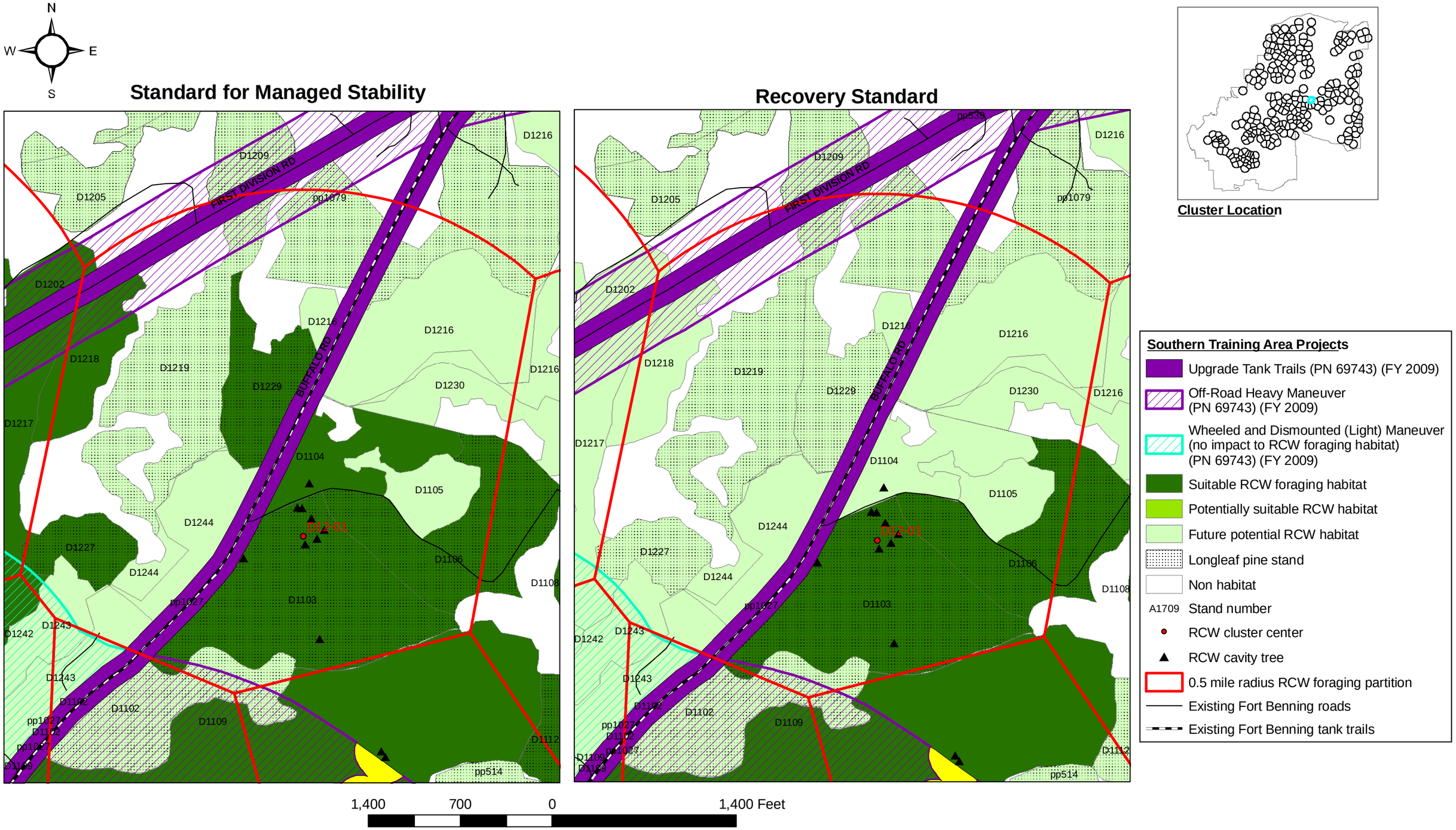
Appendix Figure I-46. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **D11-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



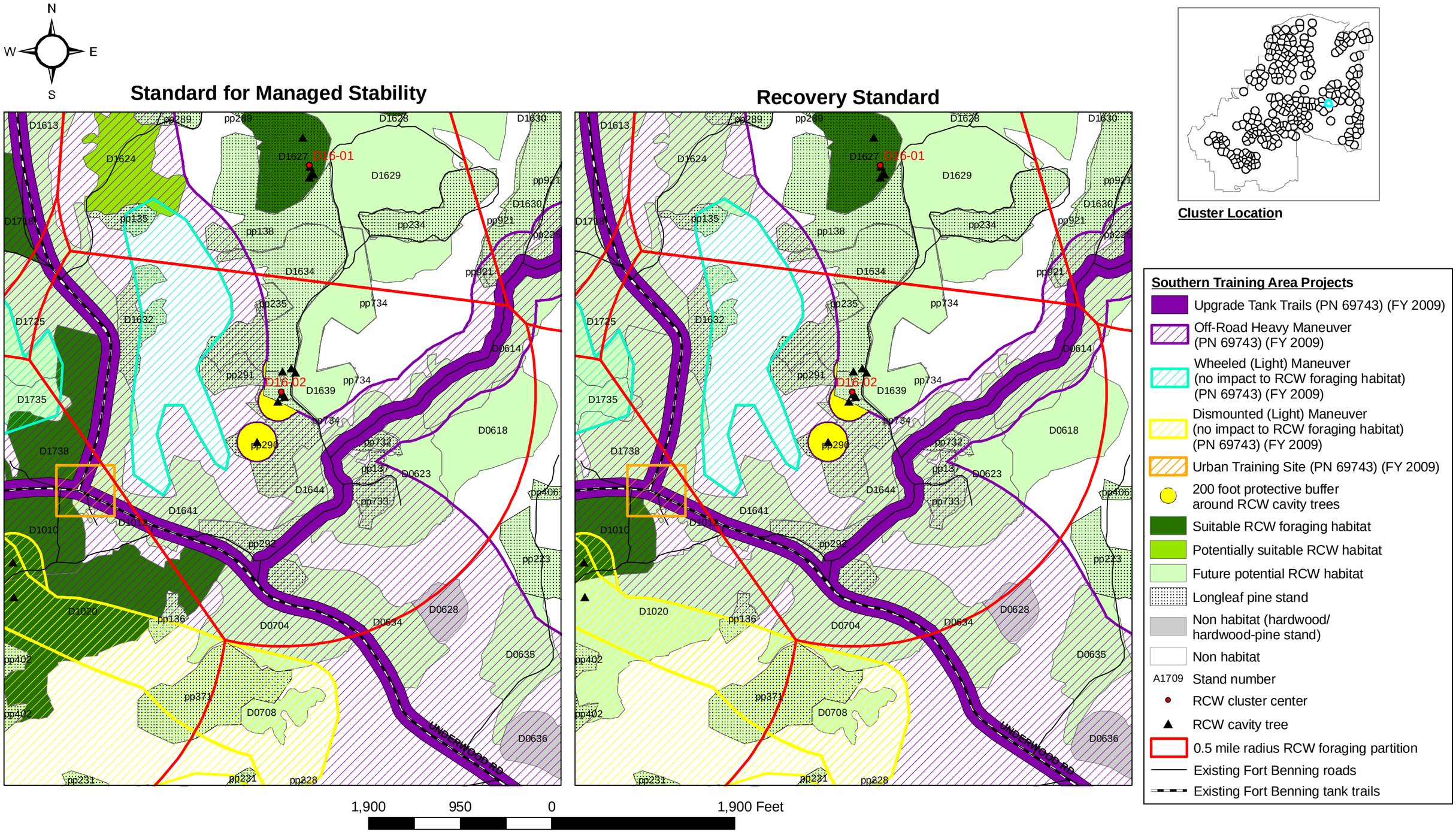
Appendix Figure I-47. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **D11-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



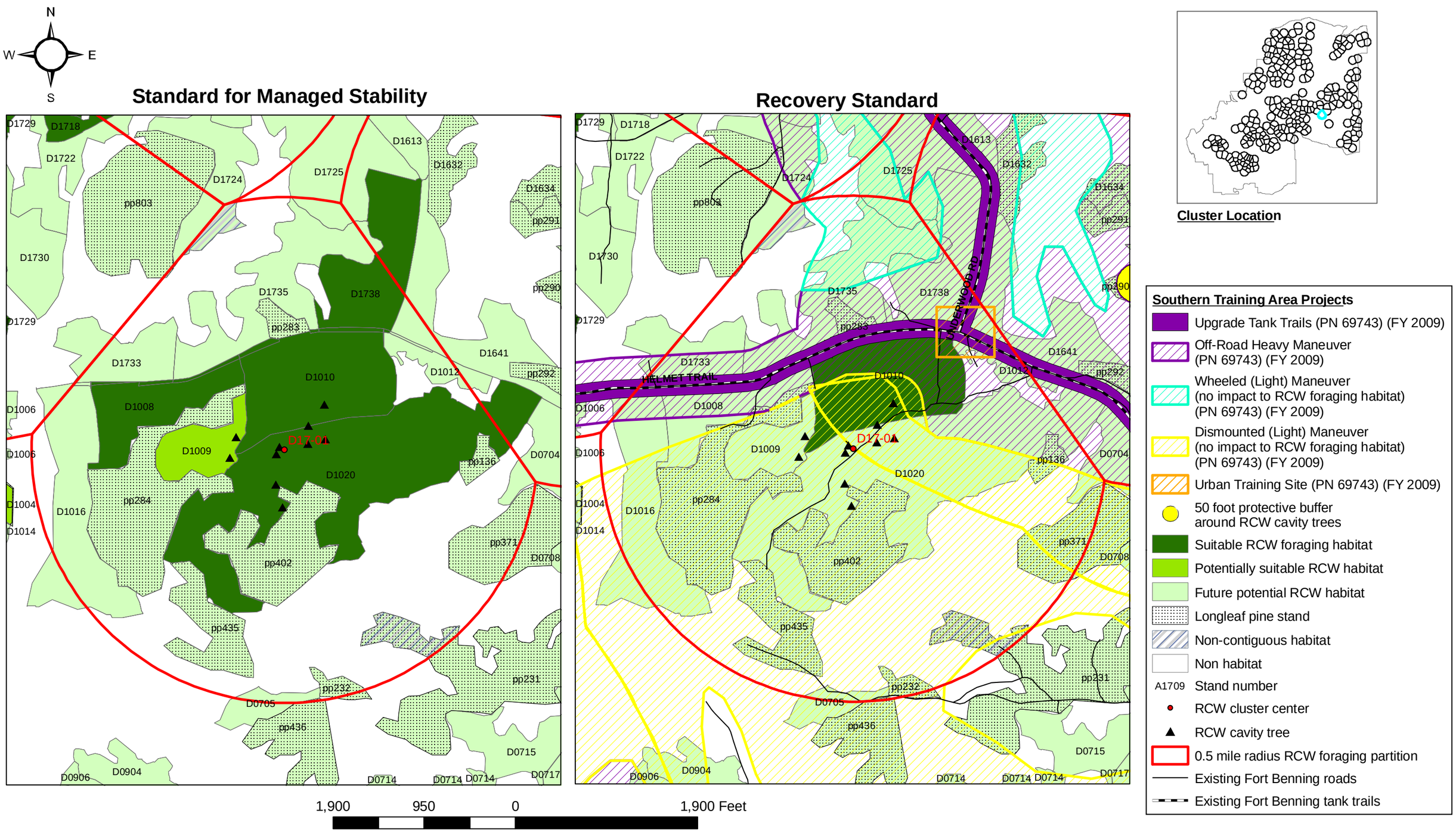
Appendix Figure I-48. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **D12-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



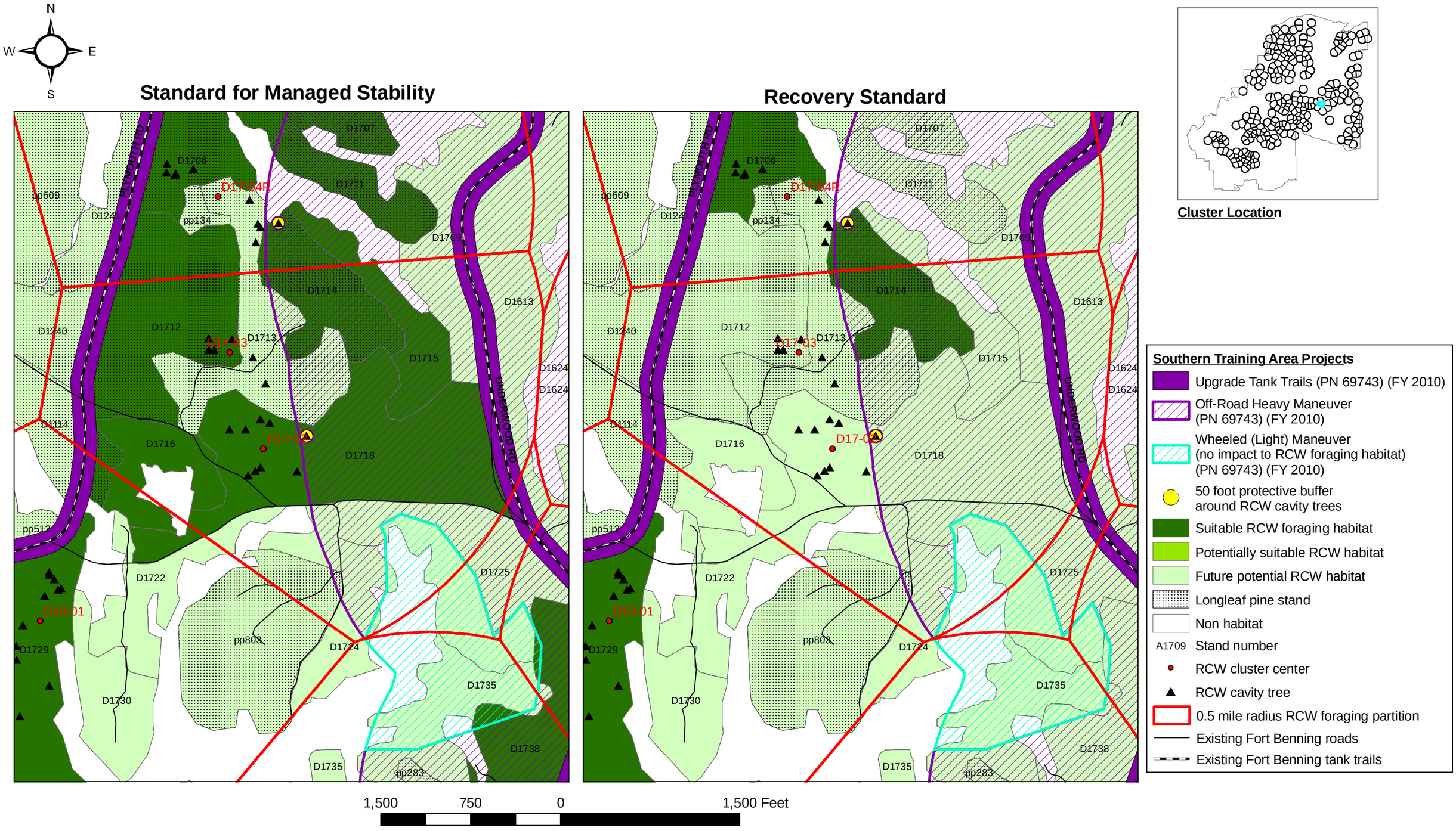
Appendix Figure I-48. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **D12-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



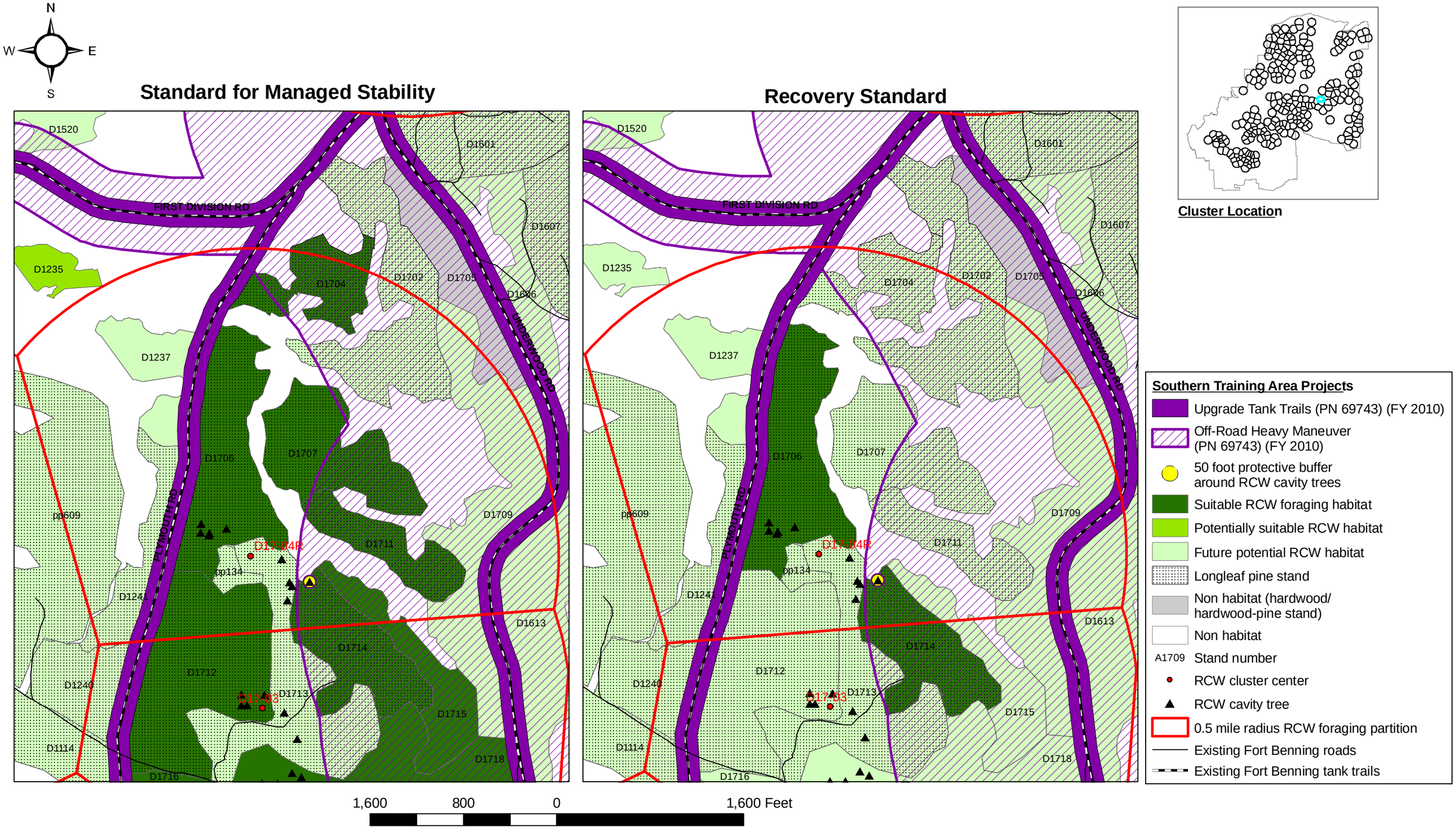
Appendix Figure I-50. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **D16-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



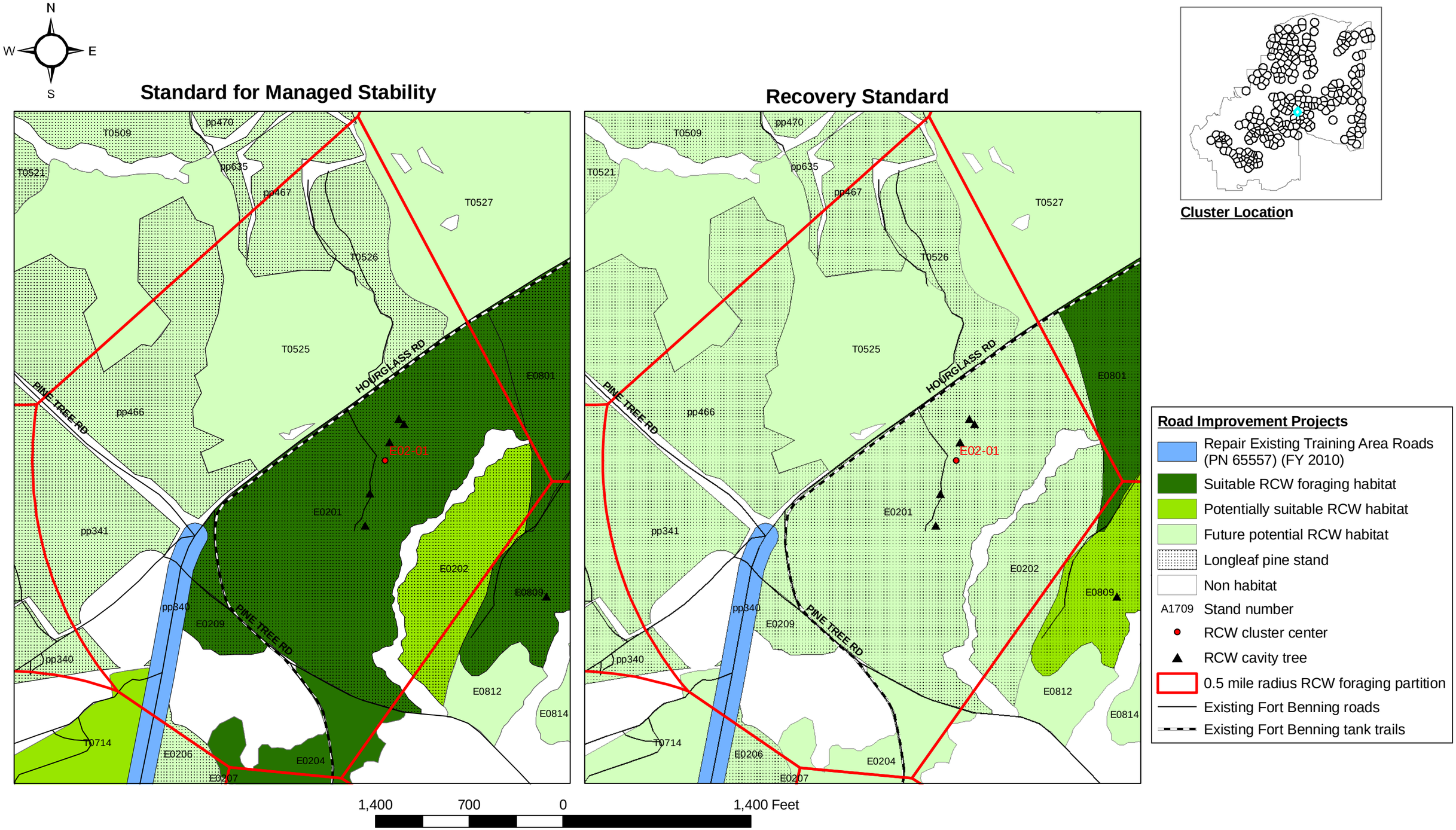
Appendix Figure I-51. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **D17-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



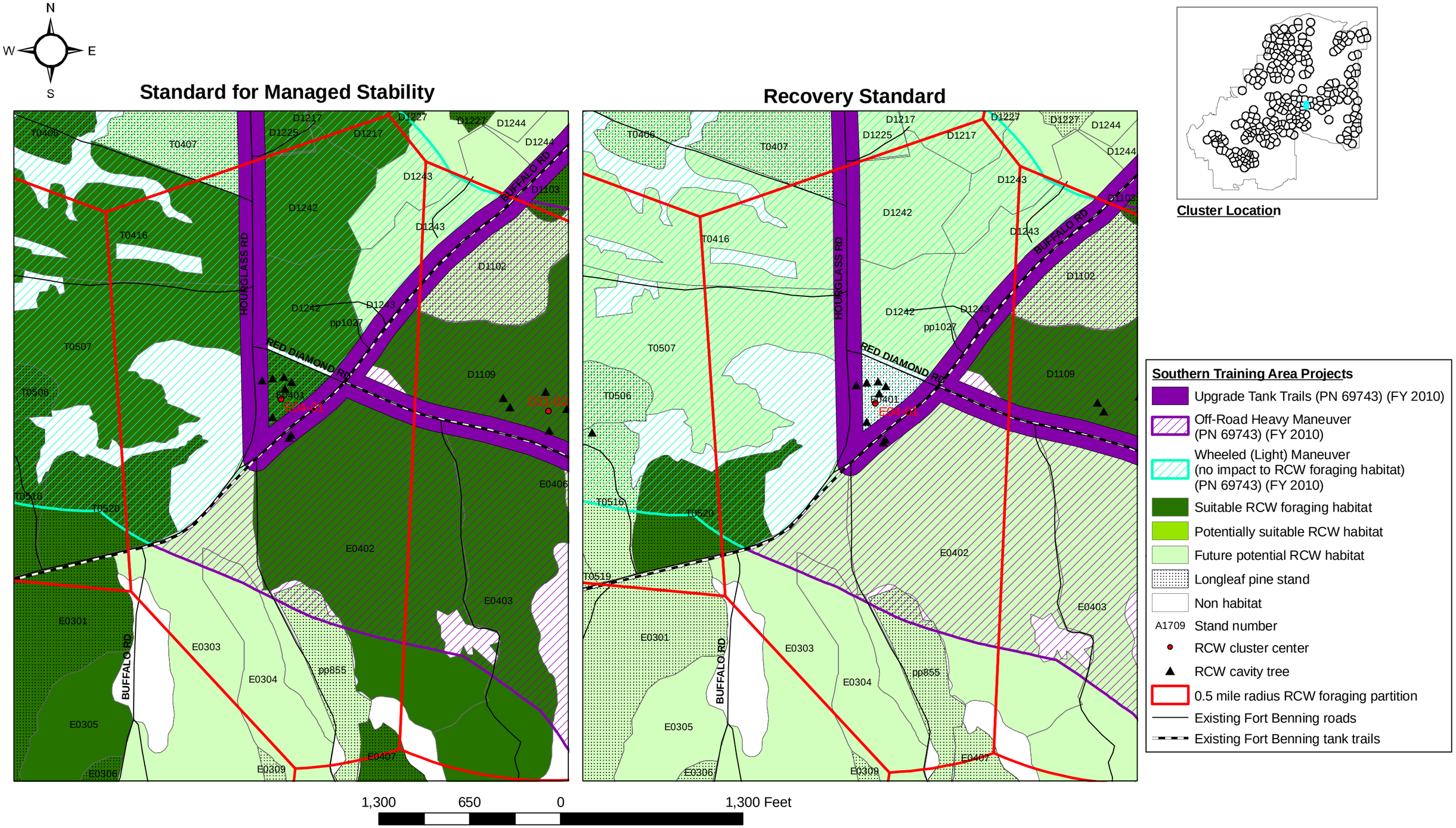
Appendix Figure I-52. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **D17-03** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



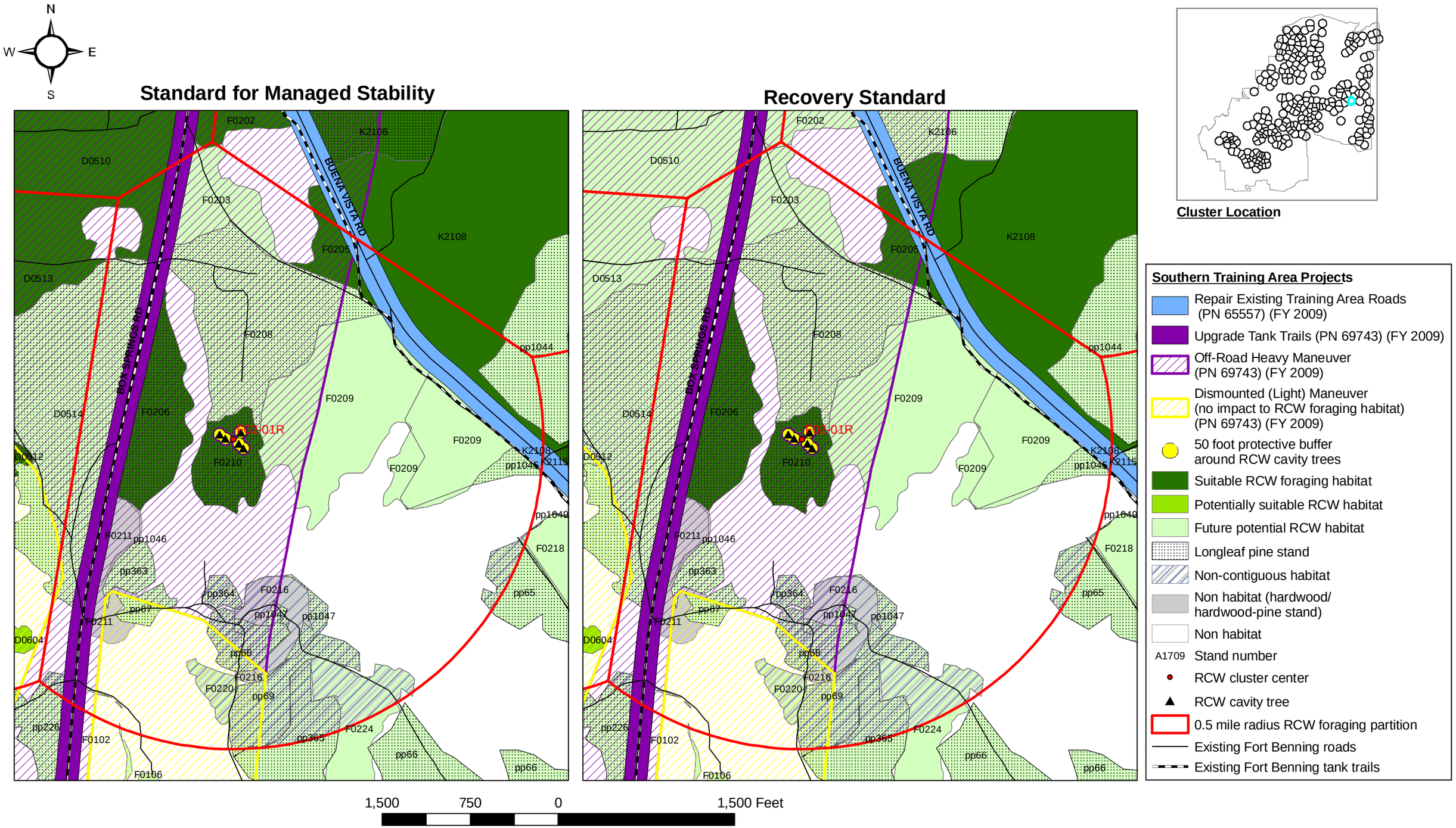
Appendix Figure I-53. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **D17-04R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



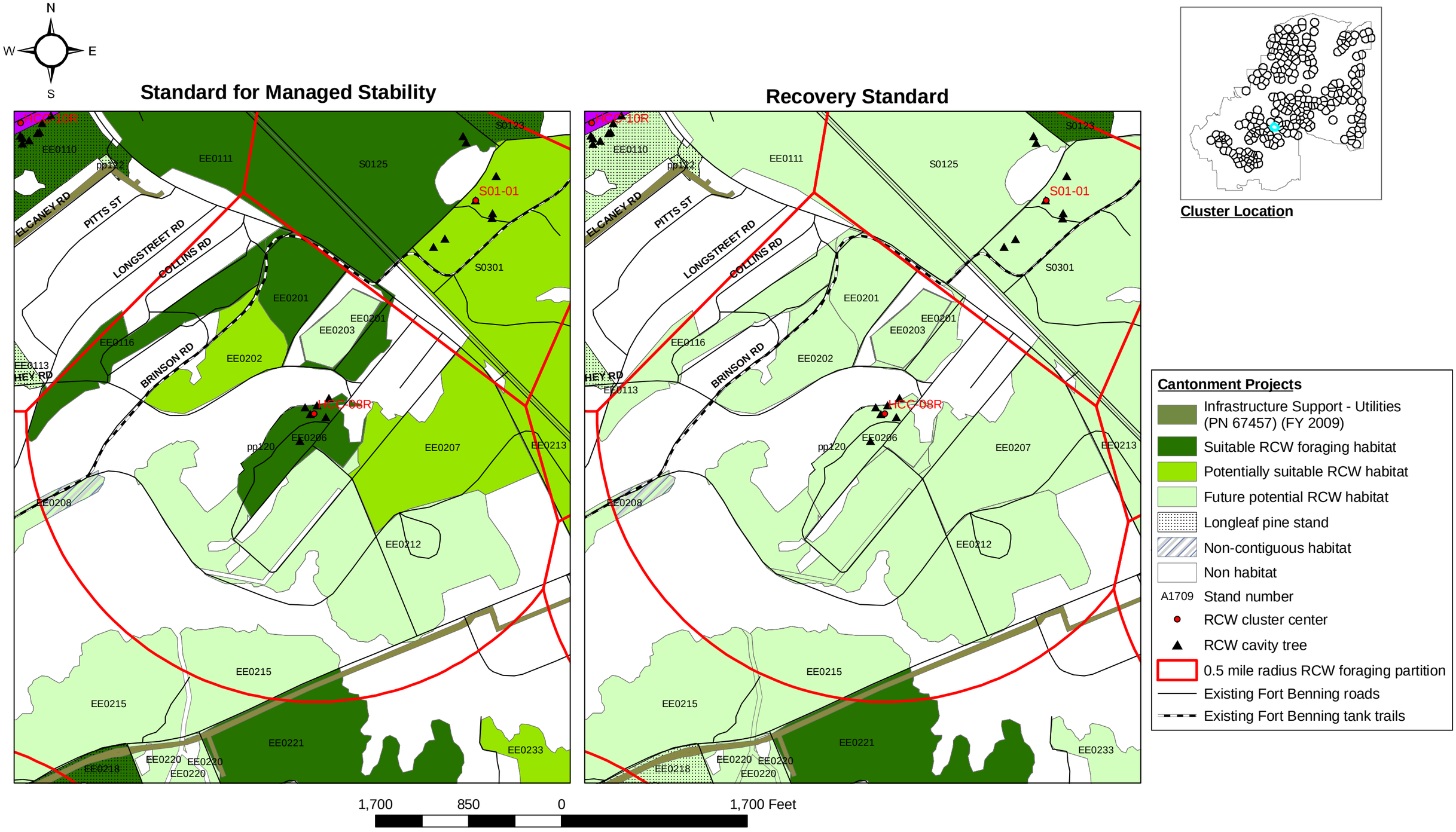
Appendix Figure I-54. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **E02-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



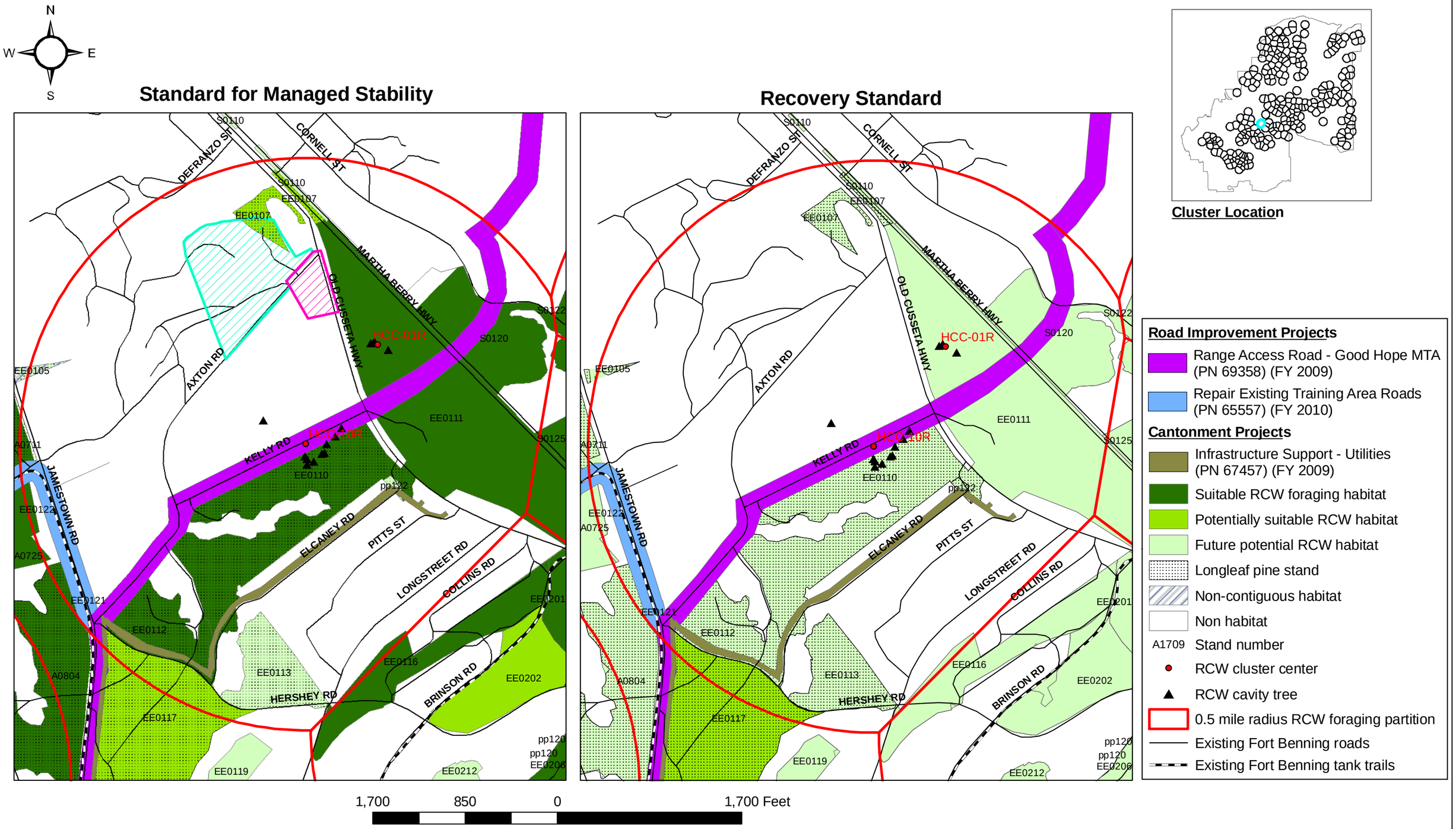
Appendix Figure I-55. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **E04-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



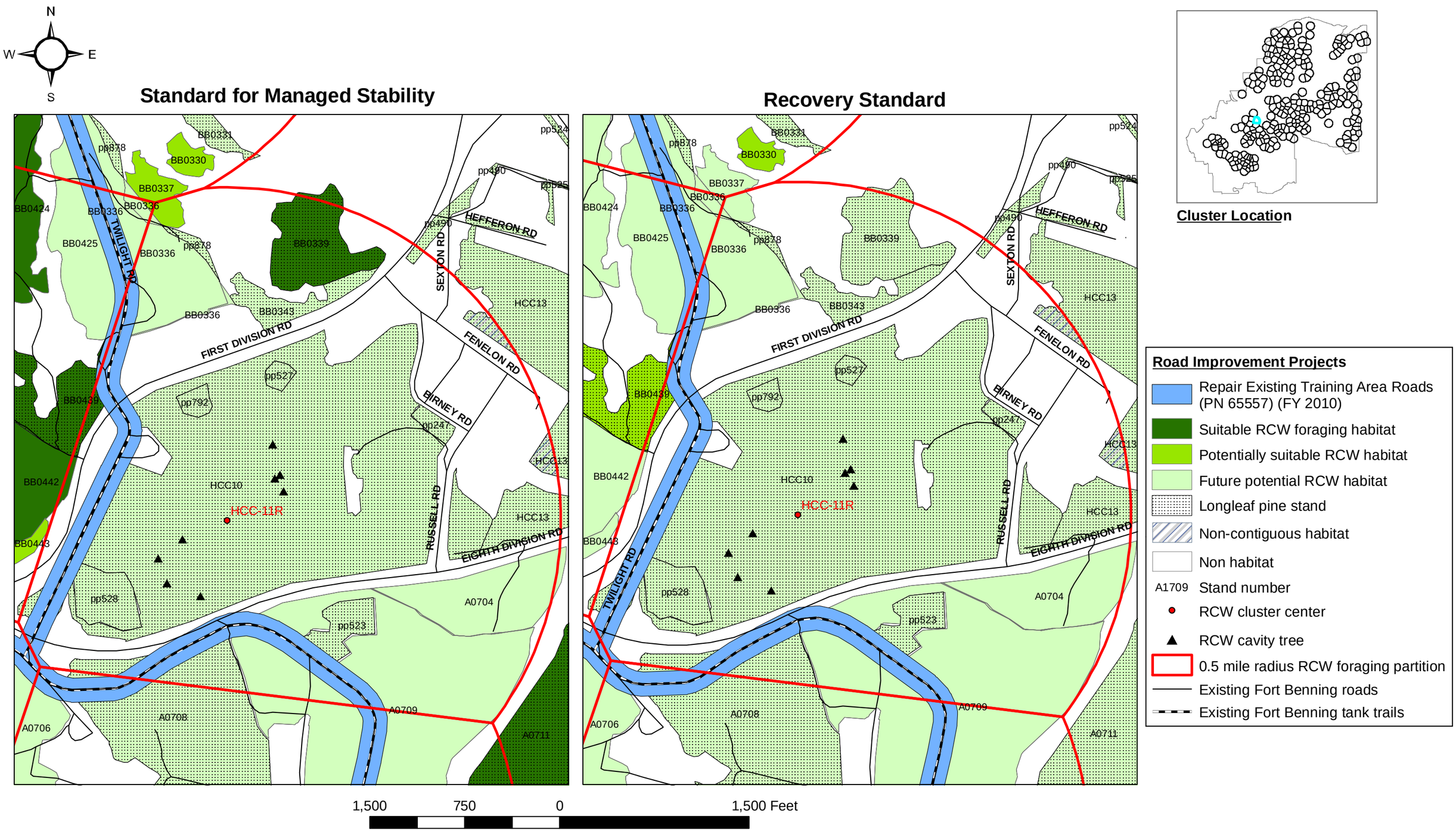
Appendix Figure I-56. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **F02-01R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



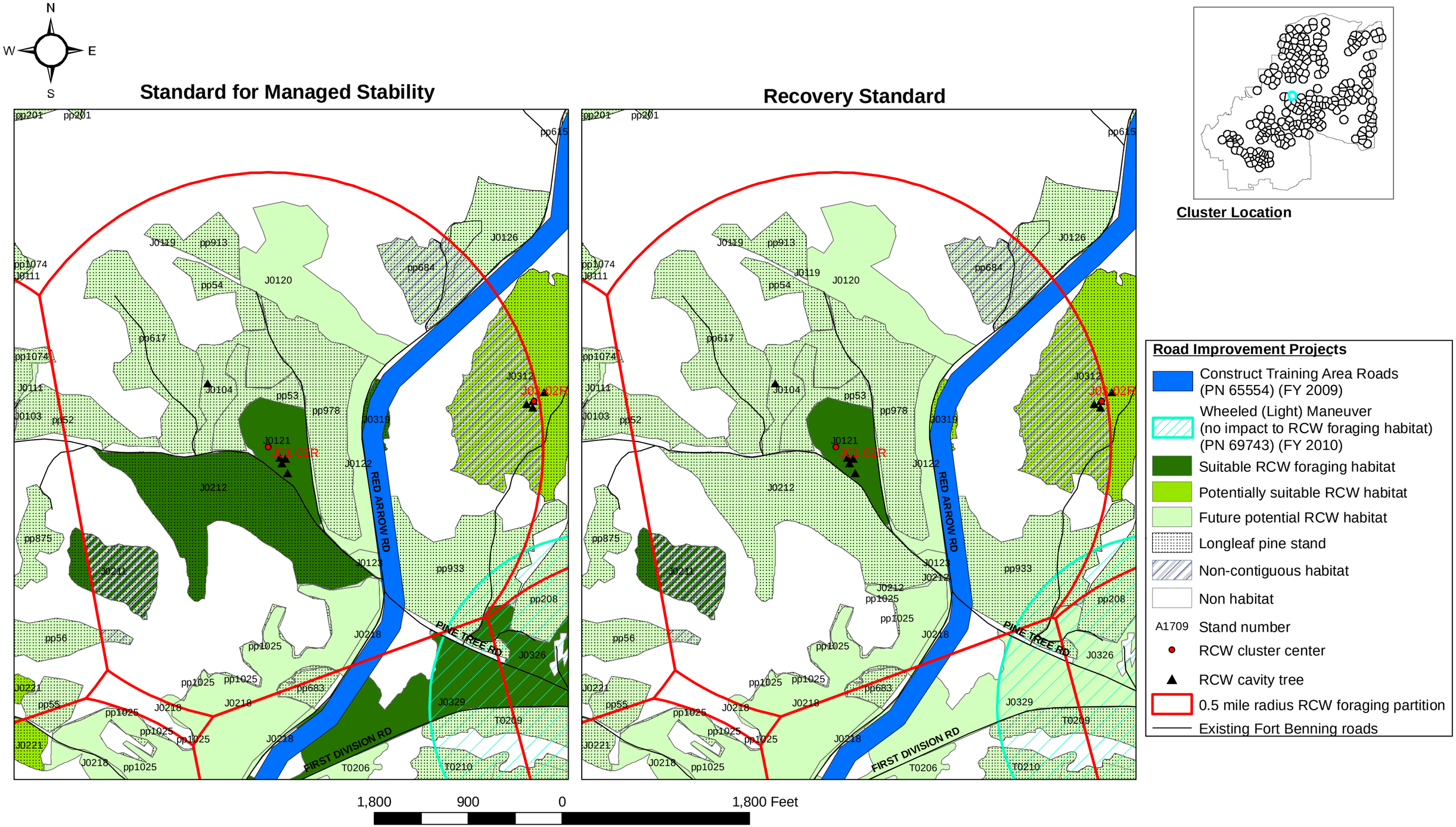
Appendix Figure I-57. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **HCC-08R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



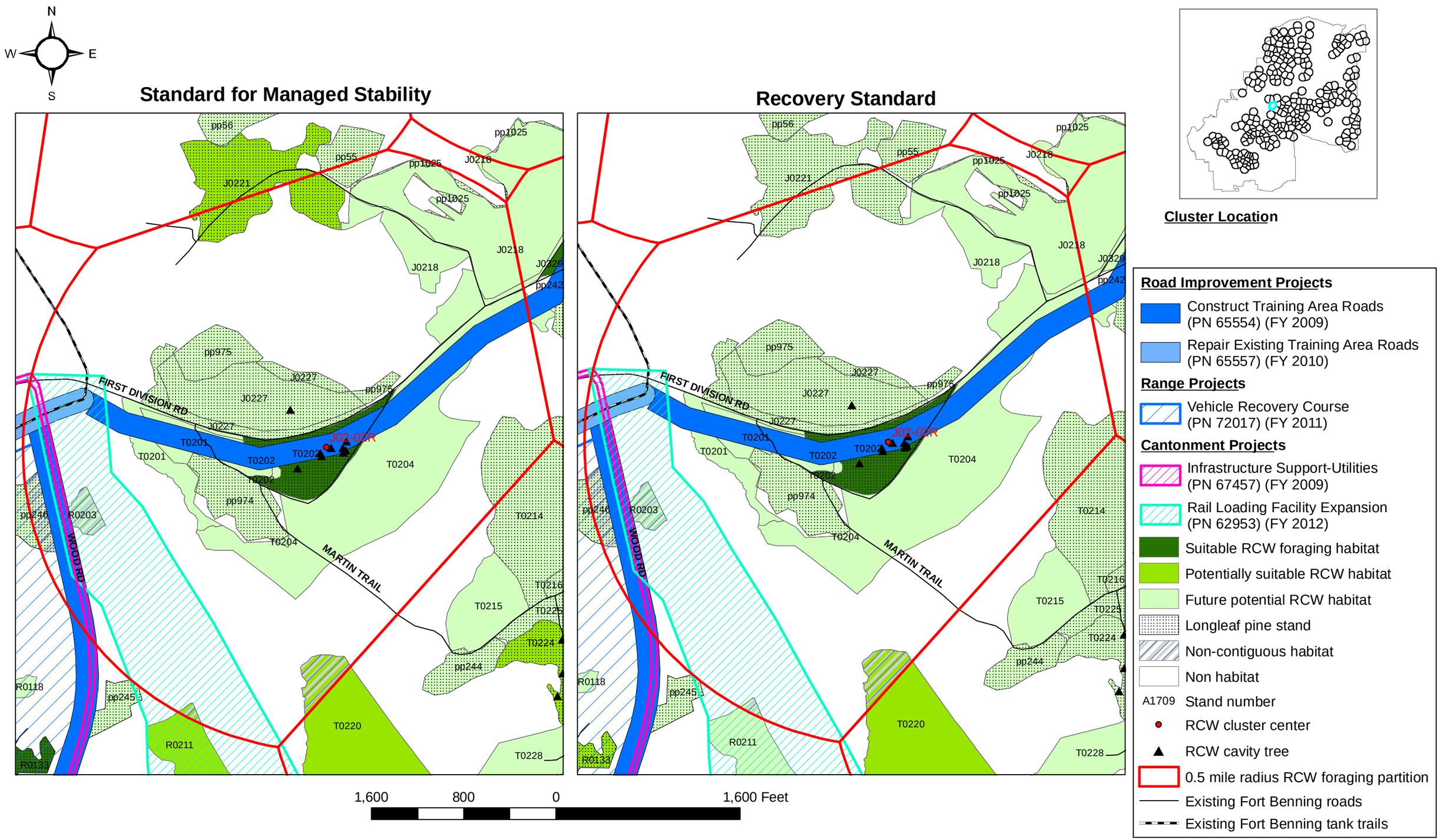
Appendix Figure I-58. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **HCC-10R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



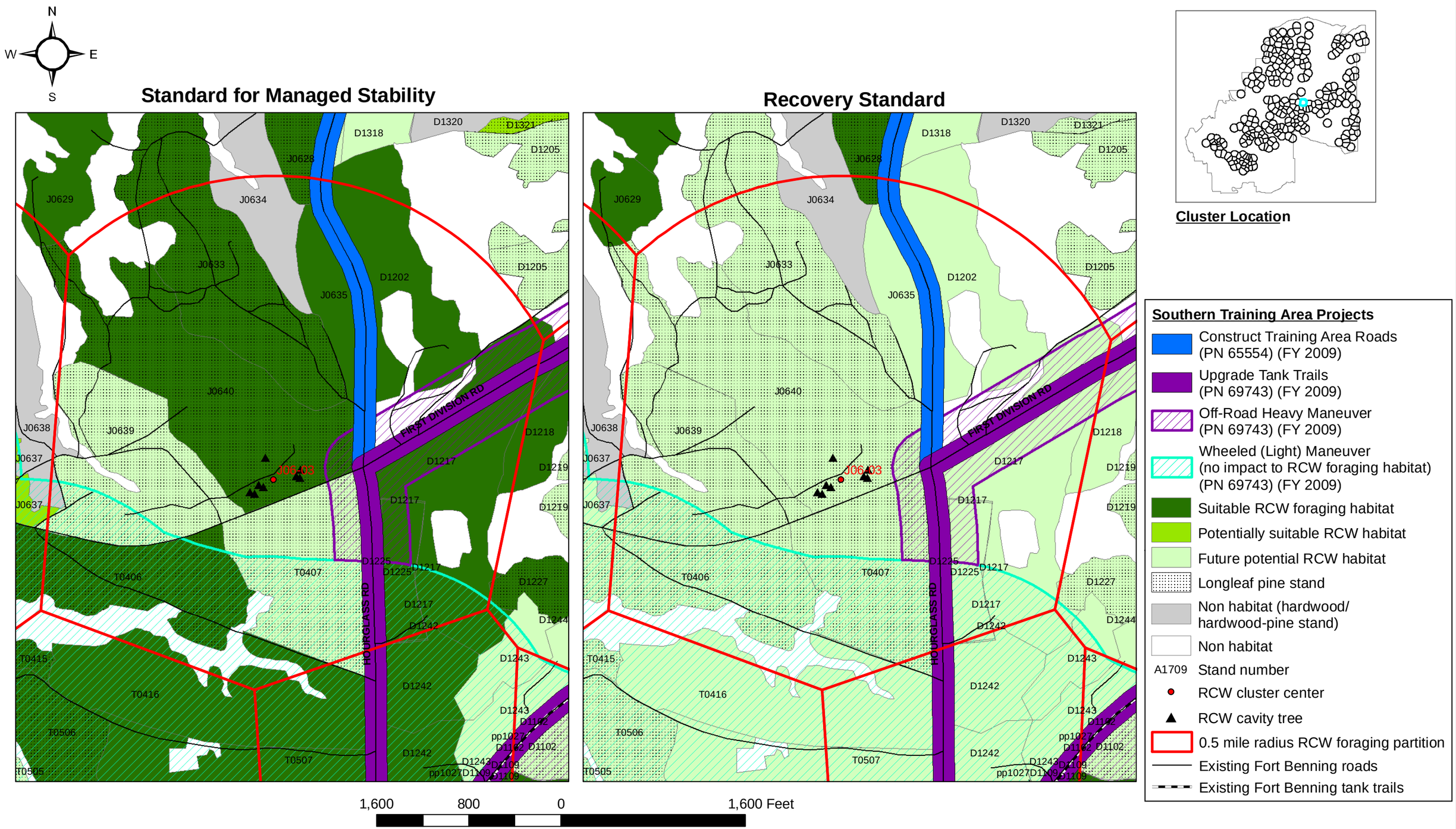
Appendix Figure I-59. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **HCC-11R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



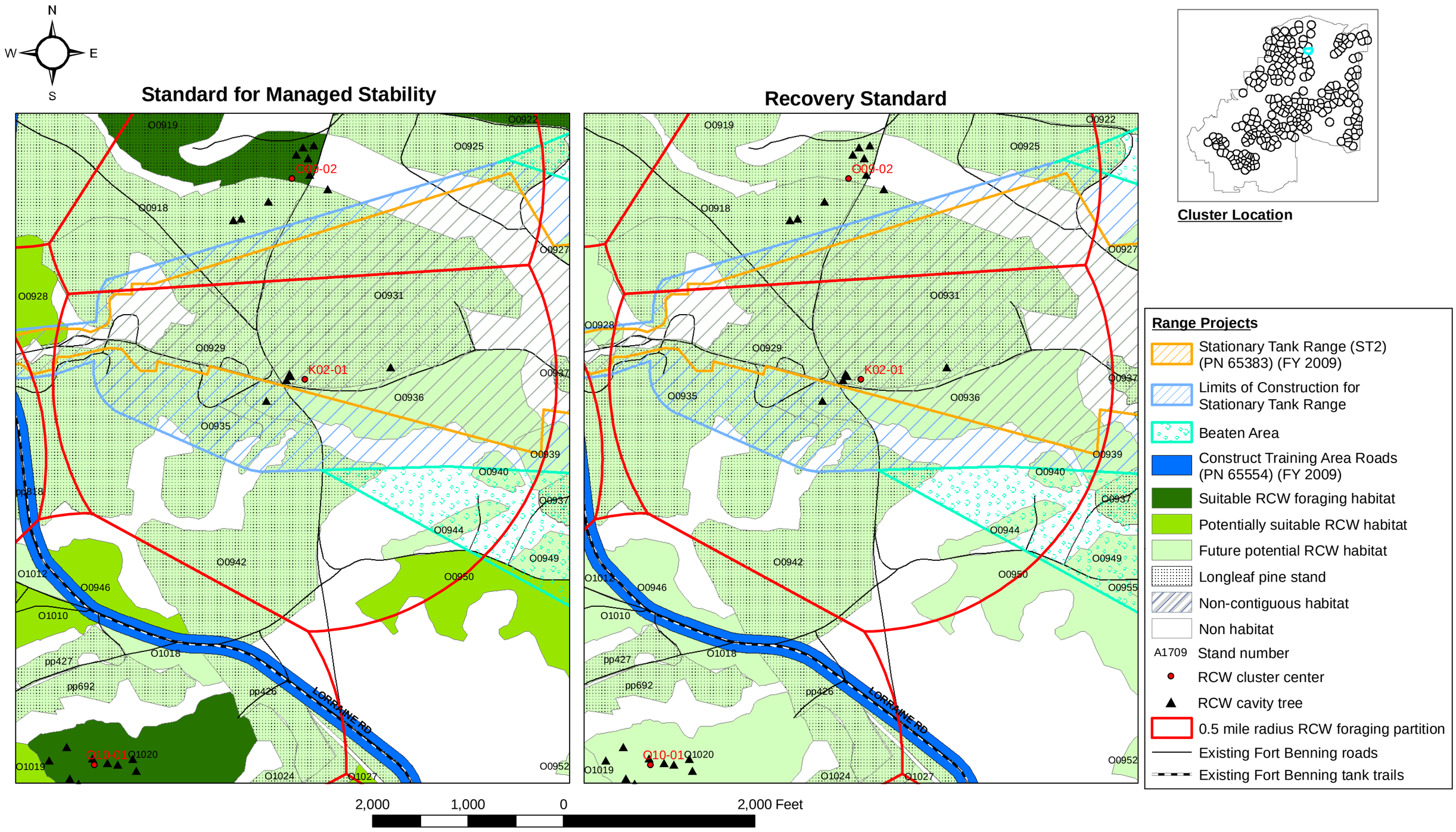
Appendix Figure I-60. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **J01-02R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



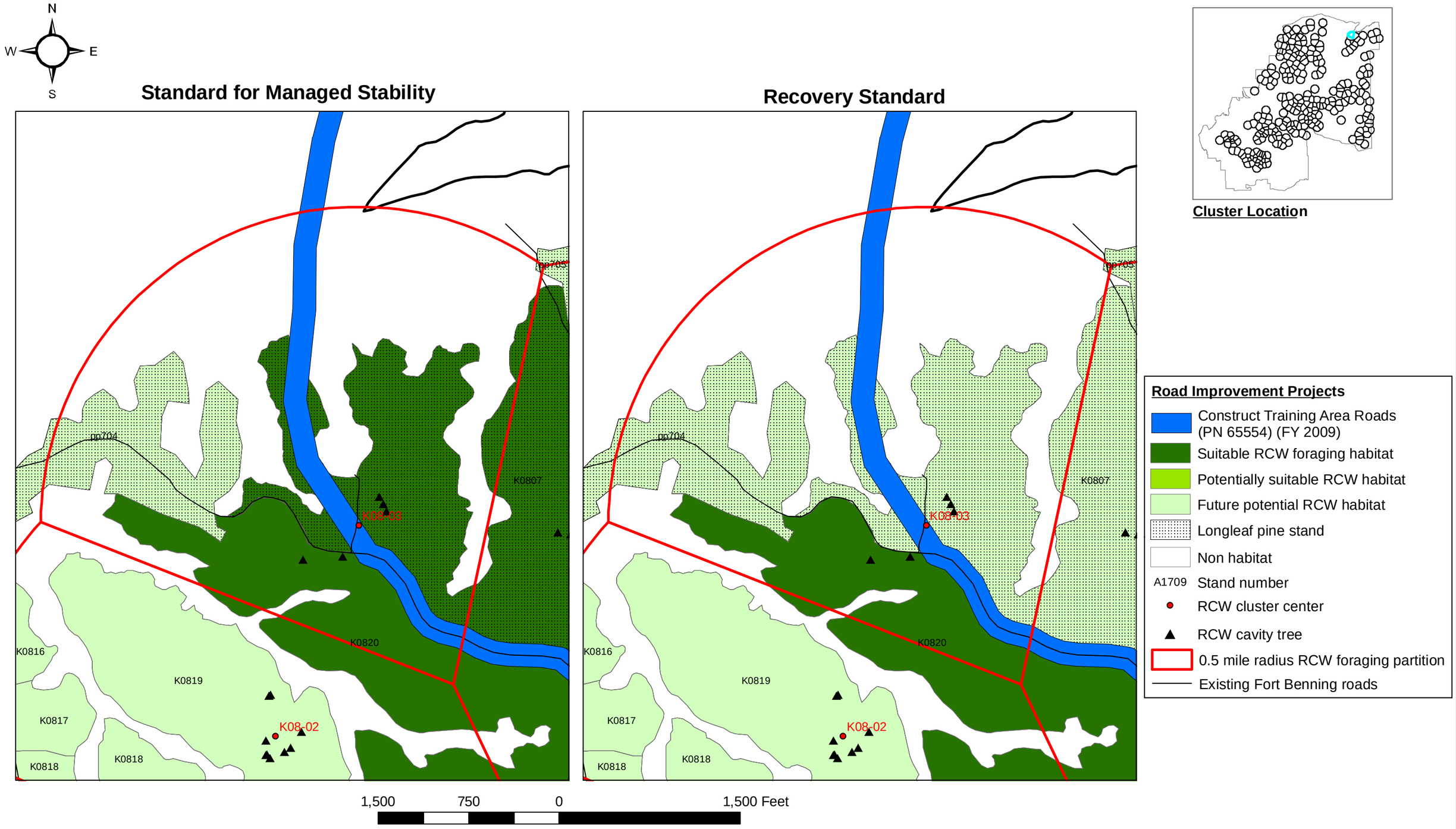
Appendix Figure I-61. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **J02-02R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



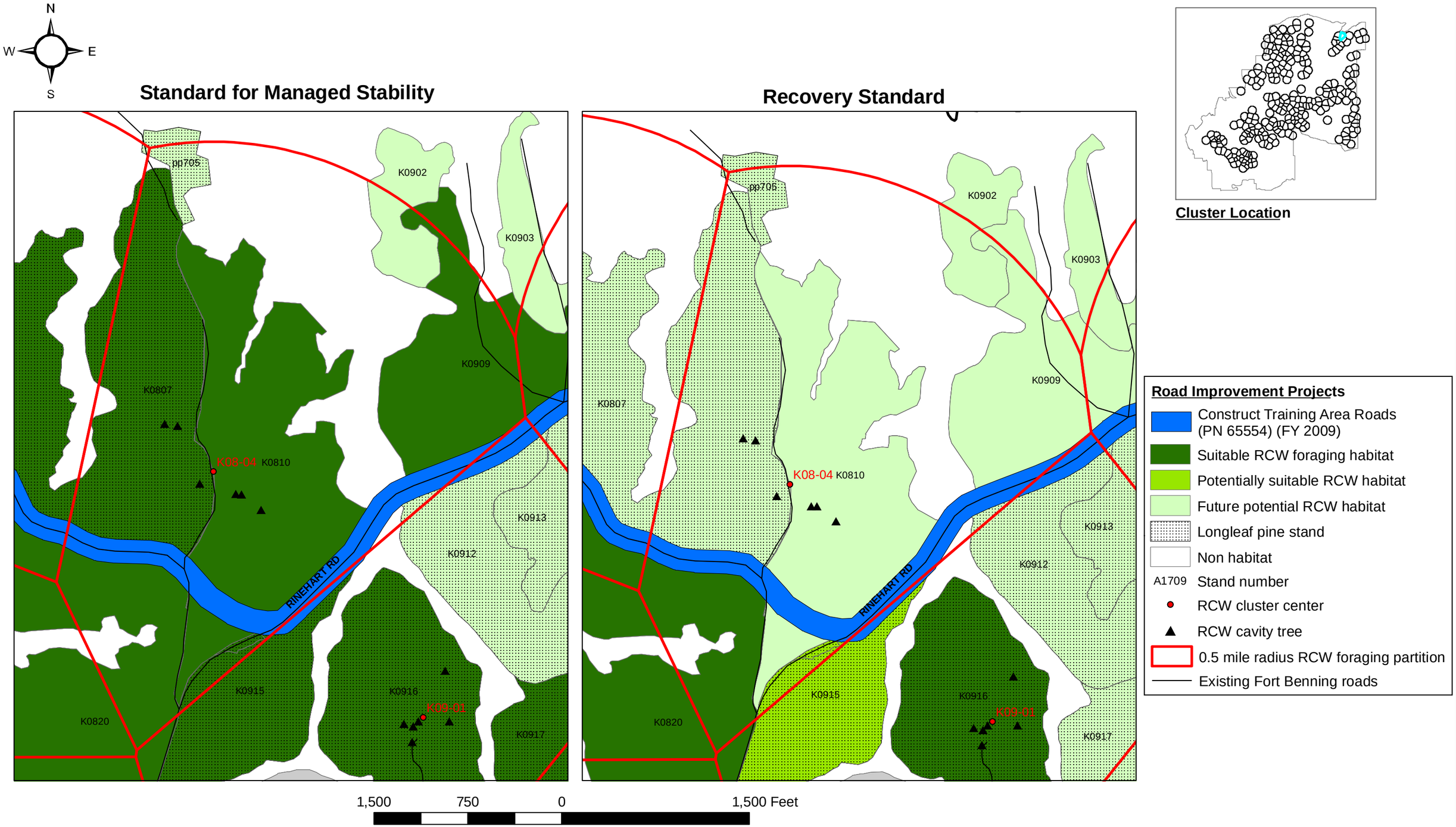
Appendix Figure I-62. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **J06-03** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



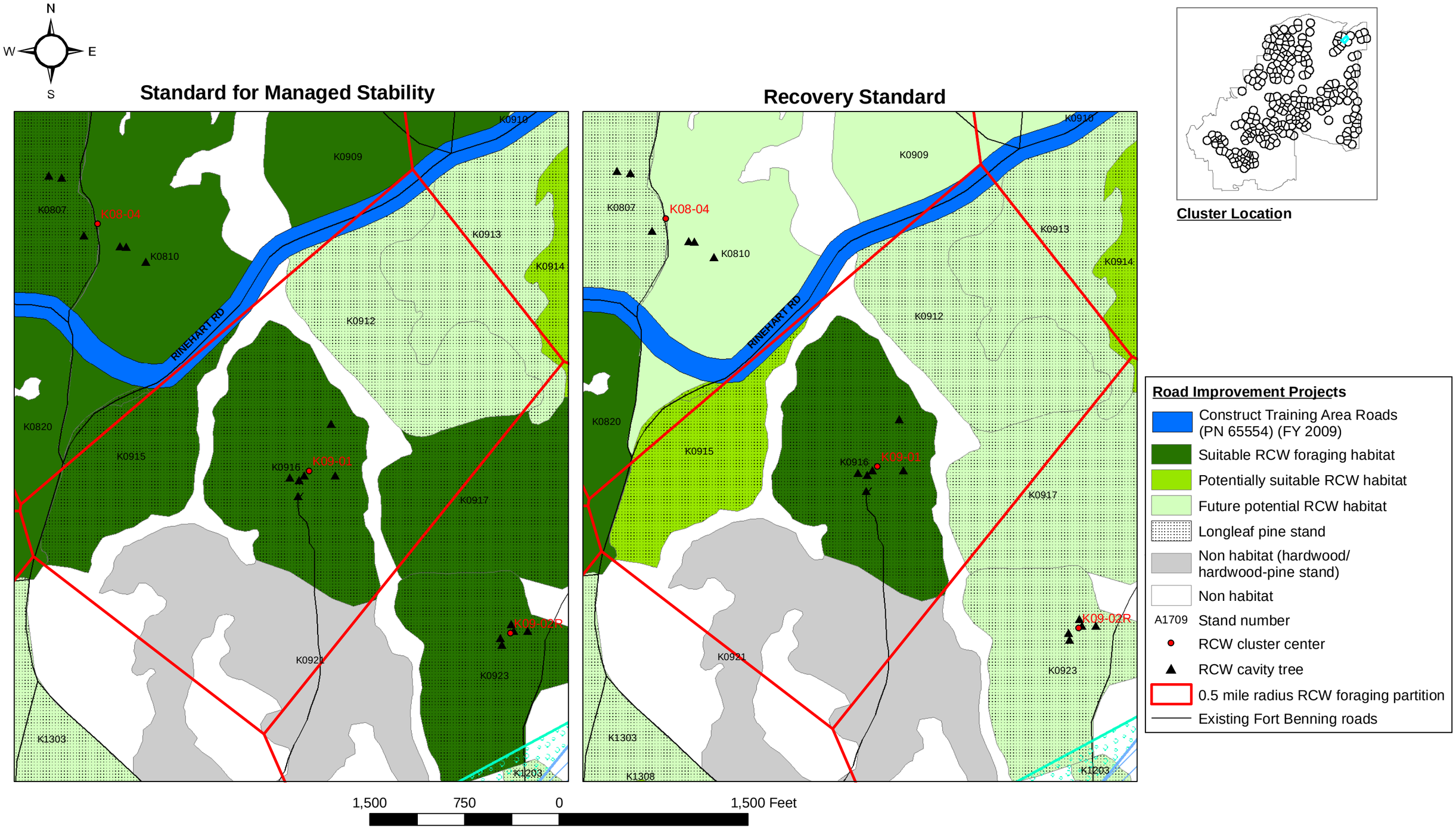
Appendix Figure I-63. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **K02-01R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



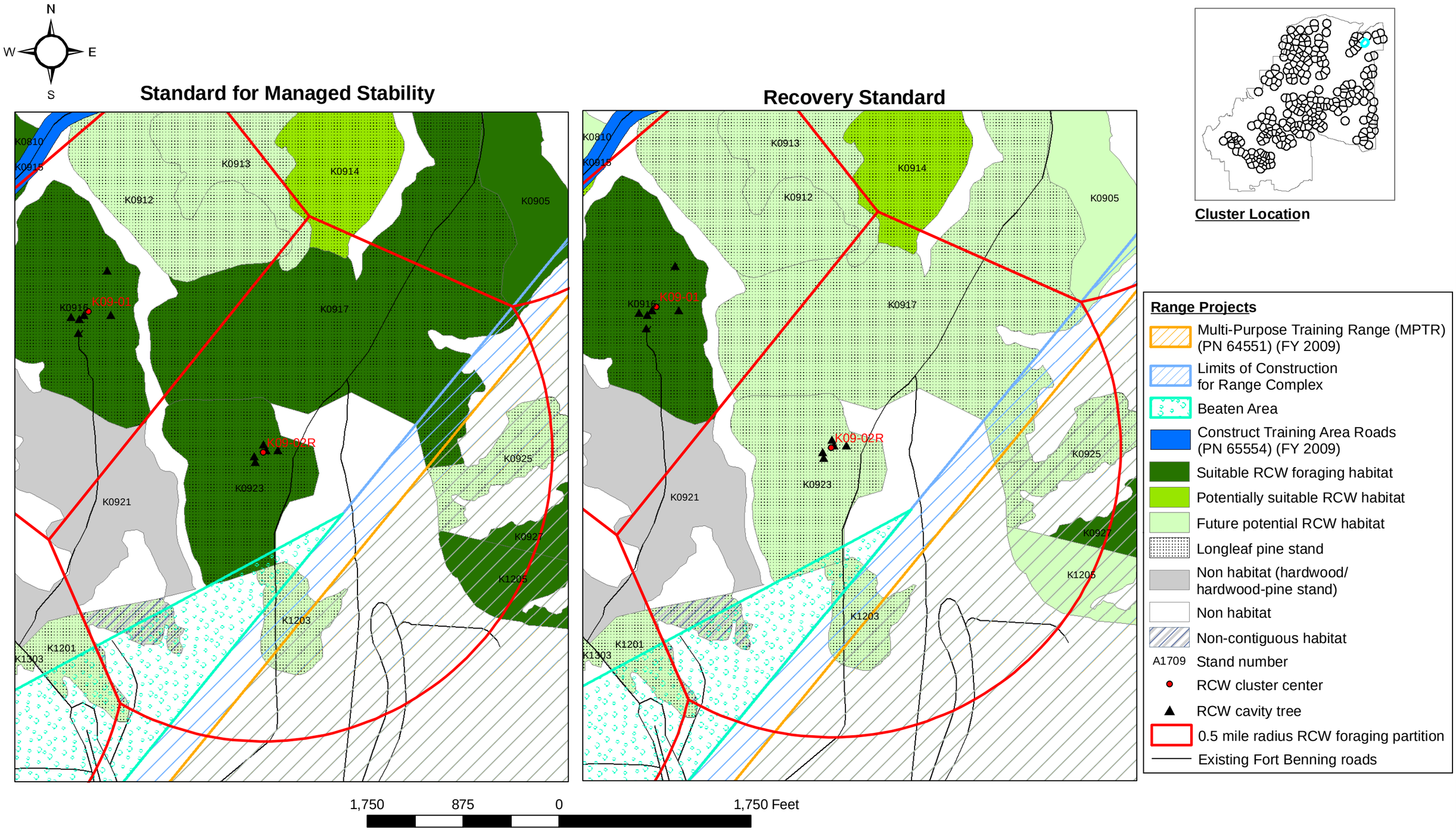
Appendix Figure I-64. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **K08-03** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



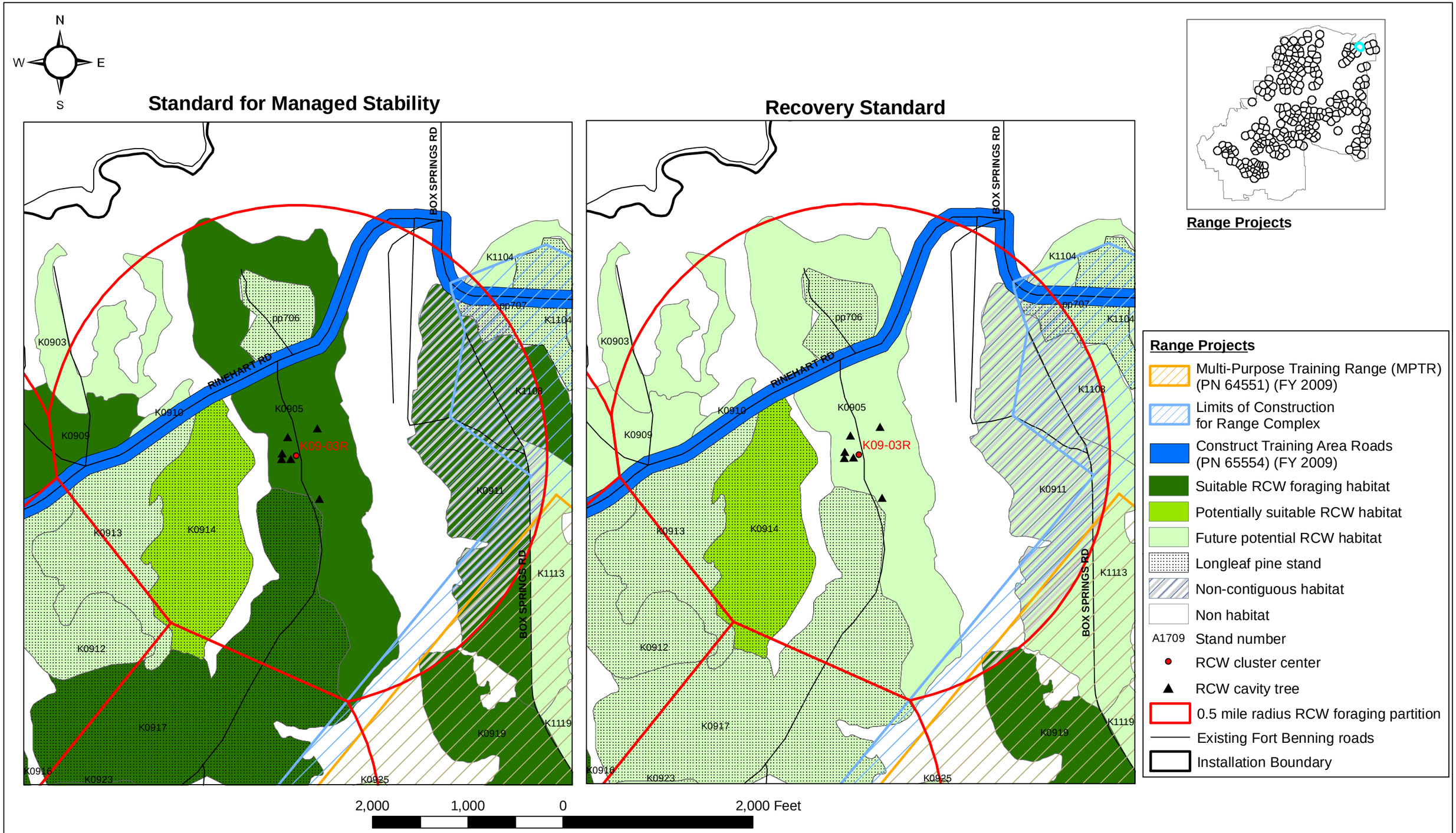
Appendix Figure I-65. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **K08-04** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



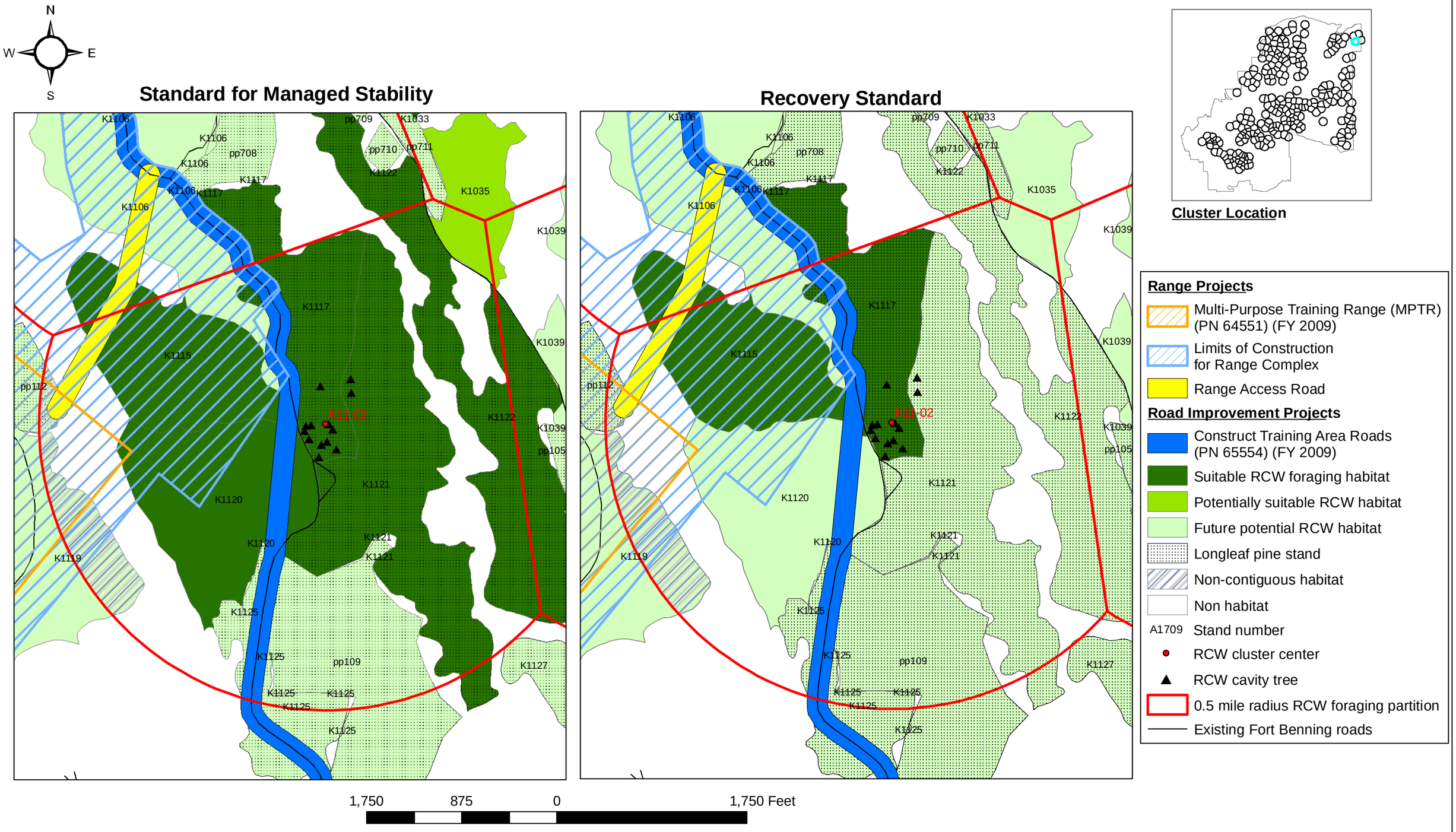
Appendix Figure I-66. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **K09-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



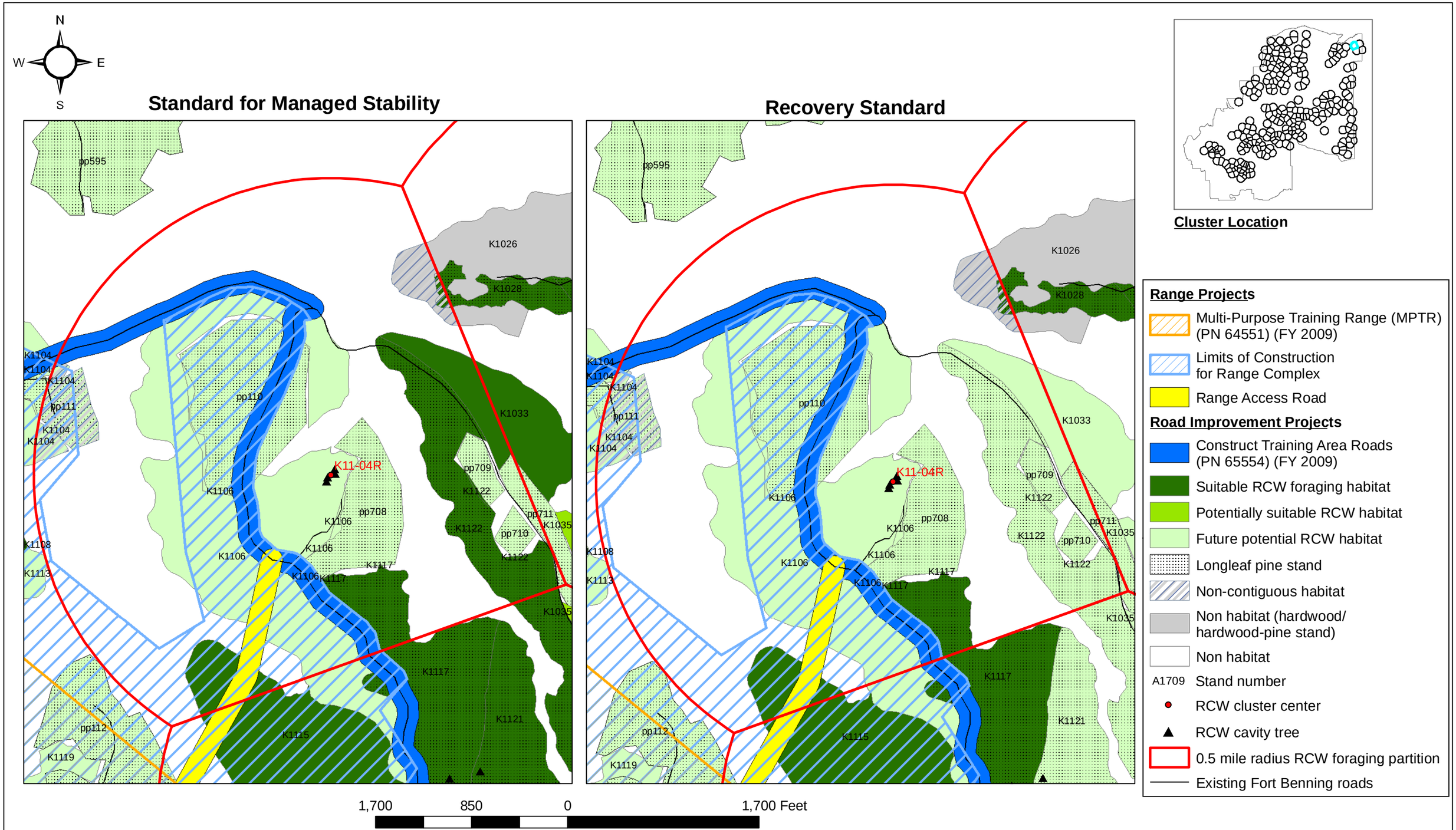
Appendix Figure I-67. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **K09-02R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



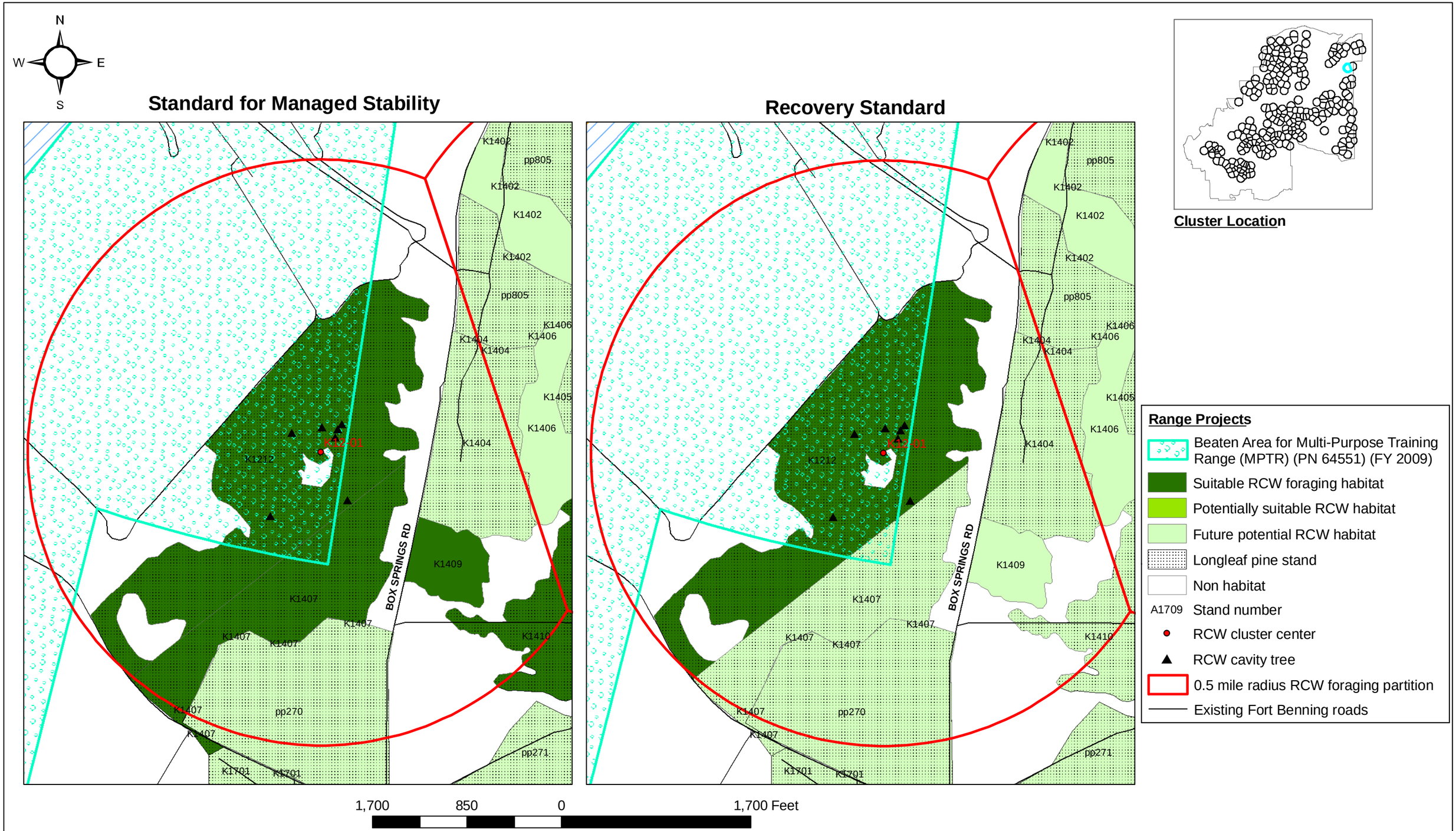
Appendix Figure I-68. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **K09-03R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



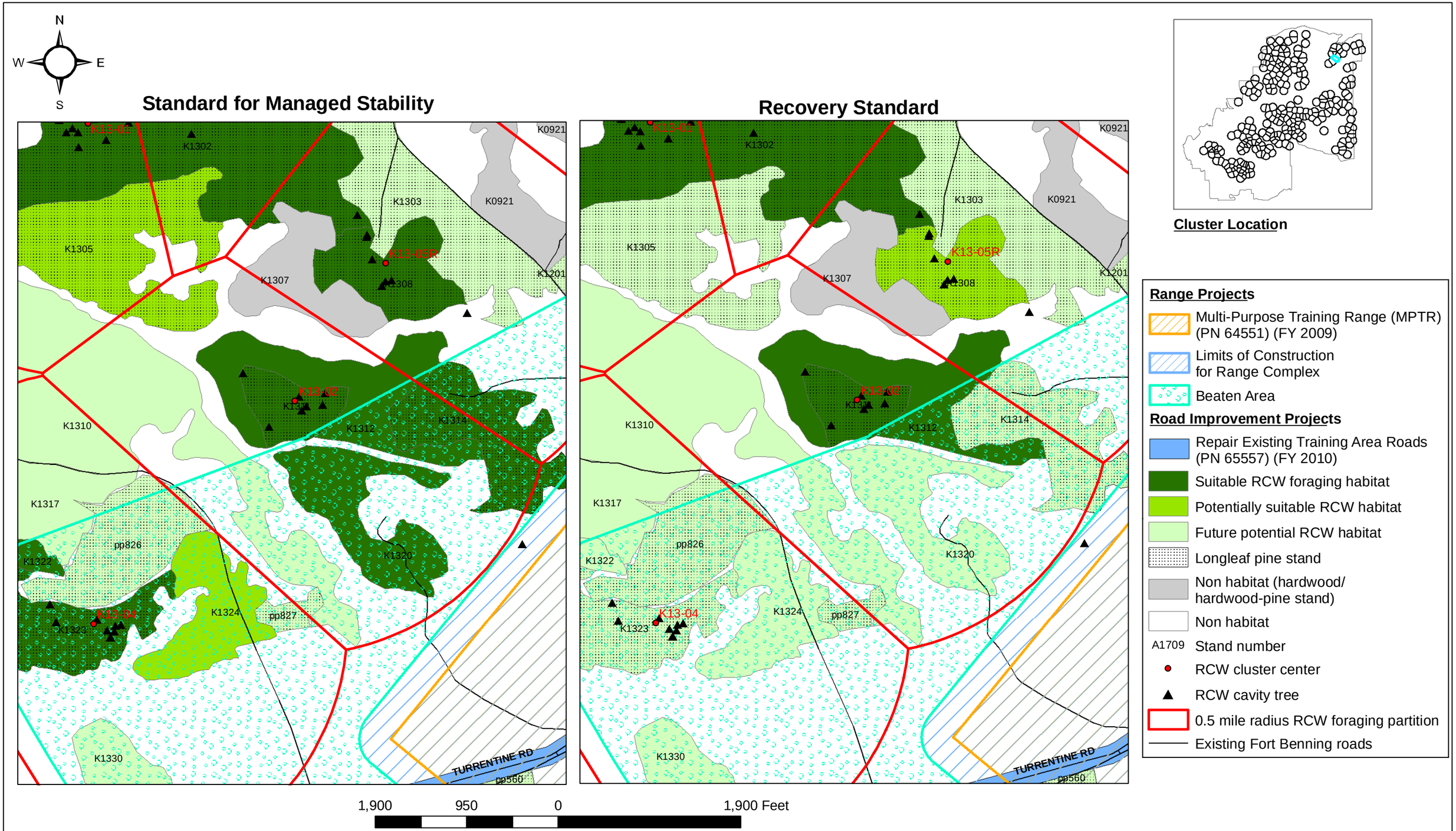
Appendix Figure I-69. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **K11-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



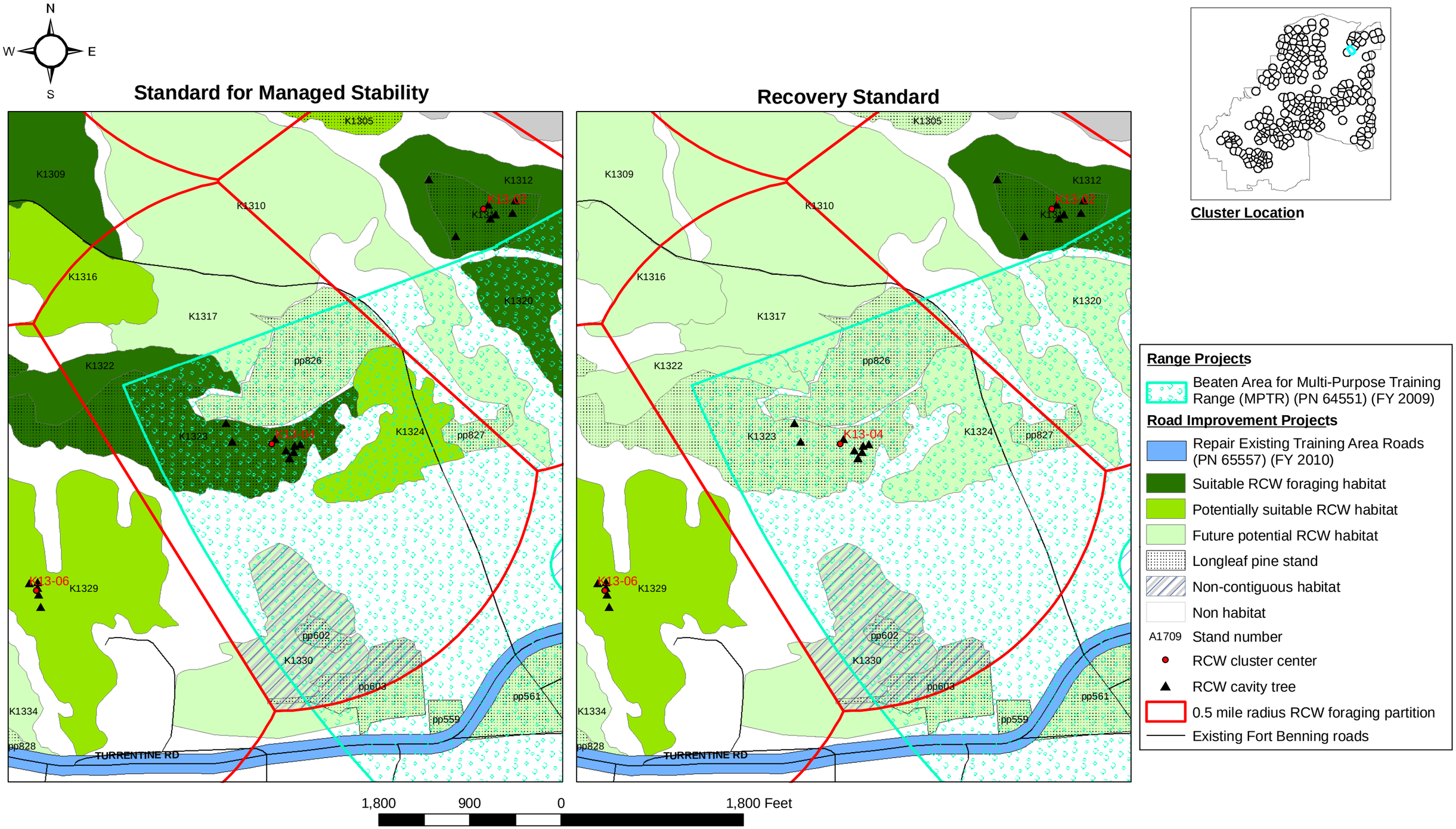
Appendix Figure I-70. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **K11-04R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



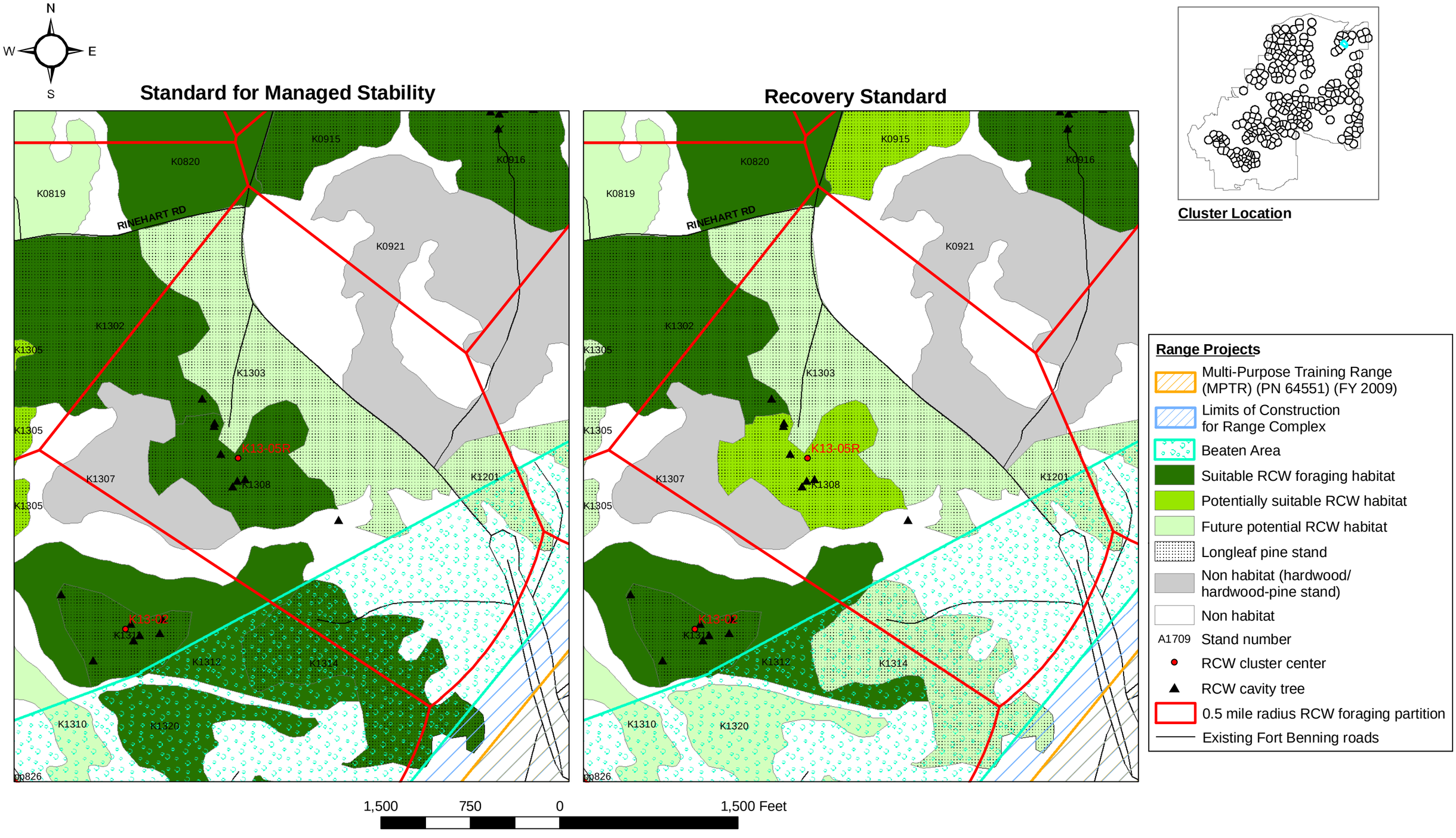
Appendix Figure I-71. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **K12-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



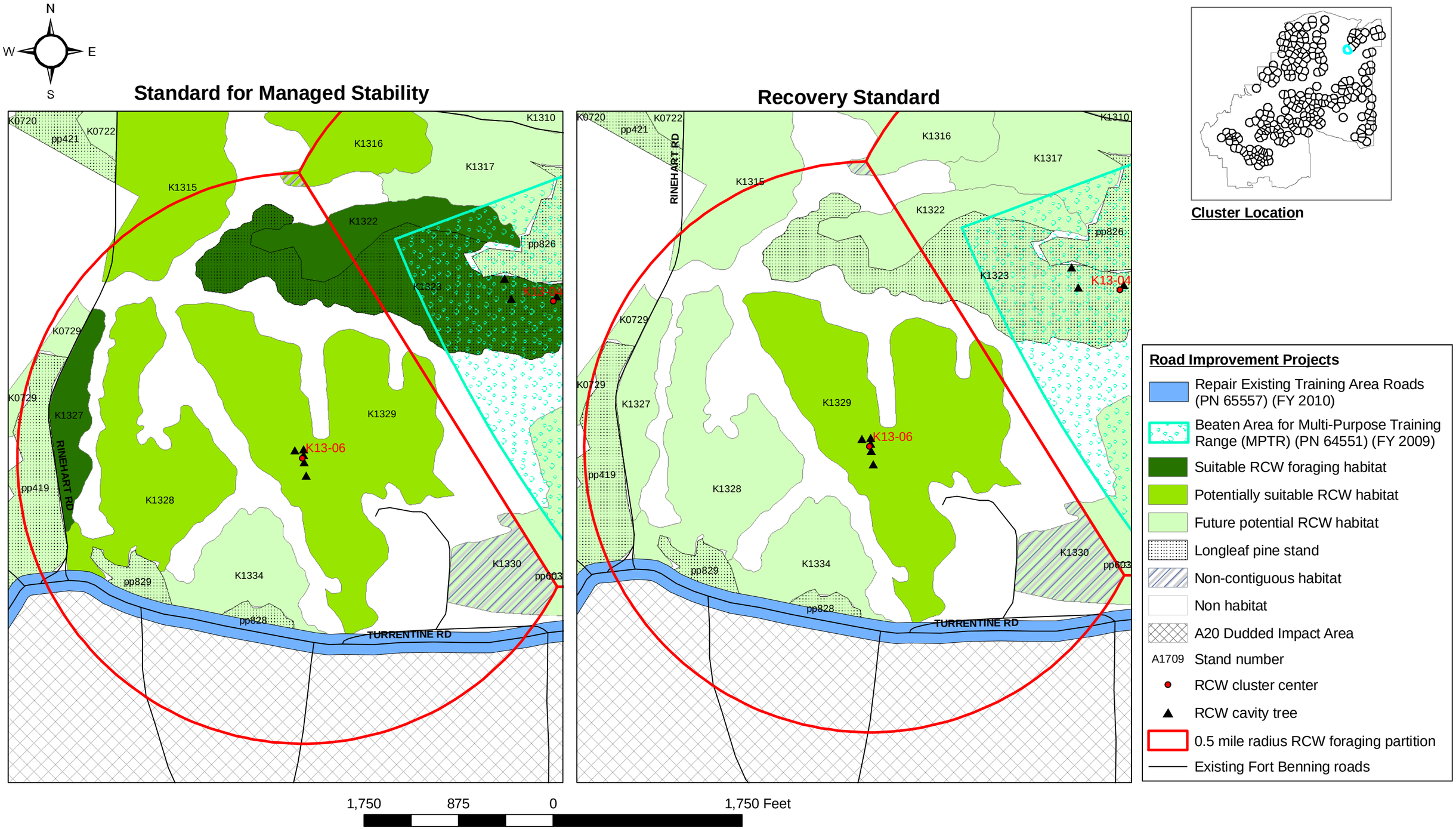
Appendix Figure I-72. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **K13-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



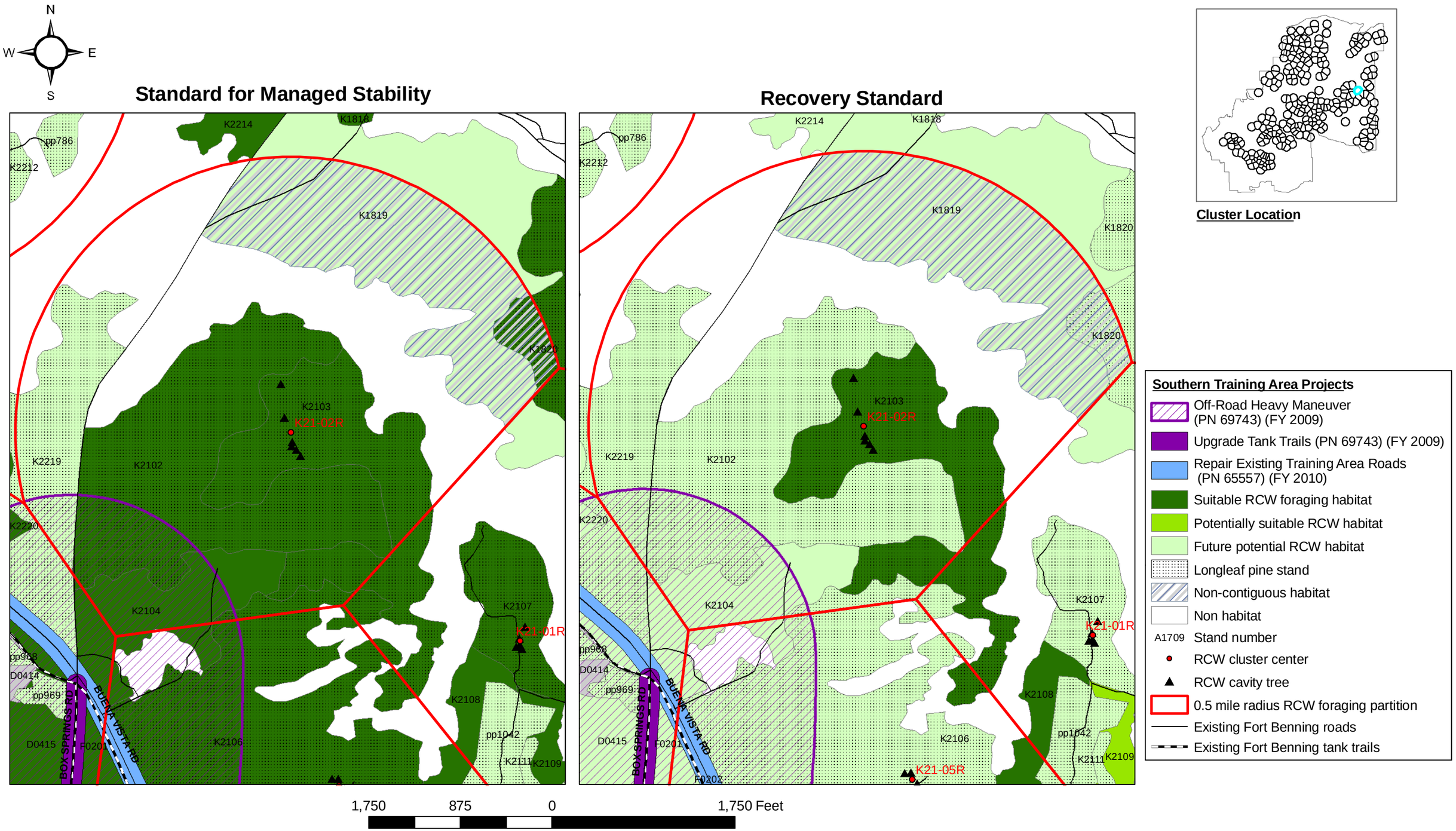
Appendix Figure I-73. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **K13-04** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



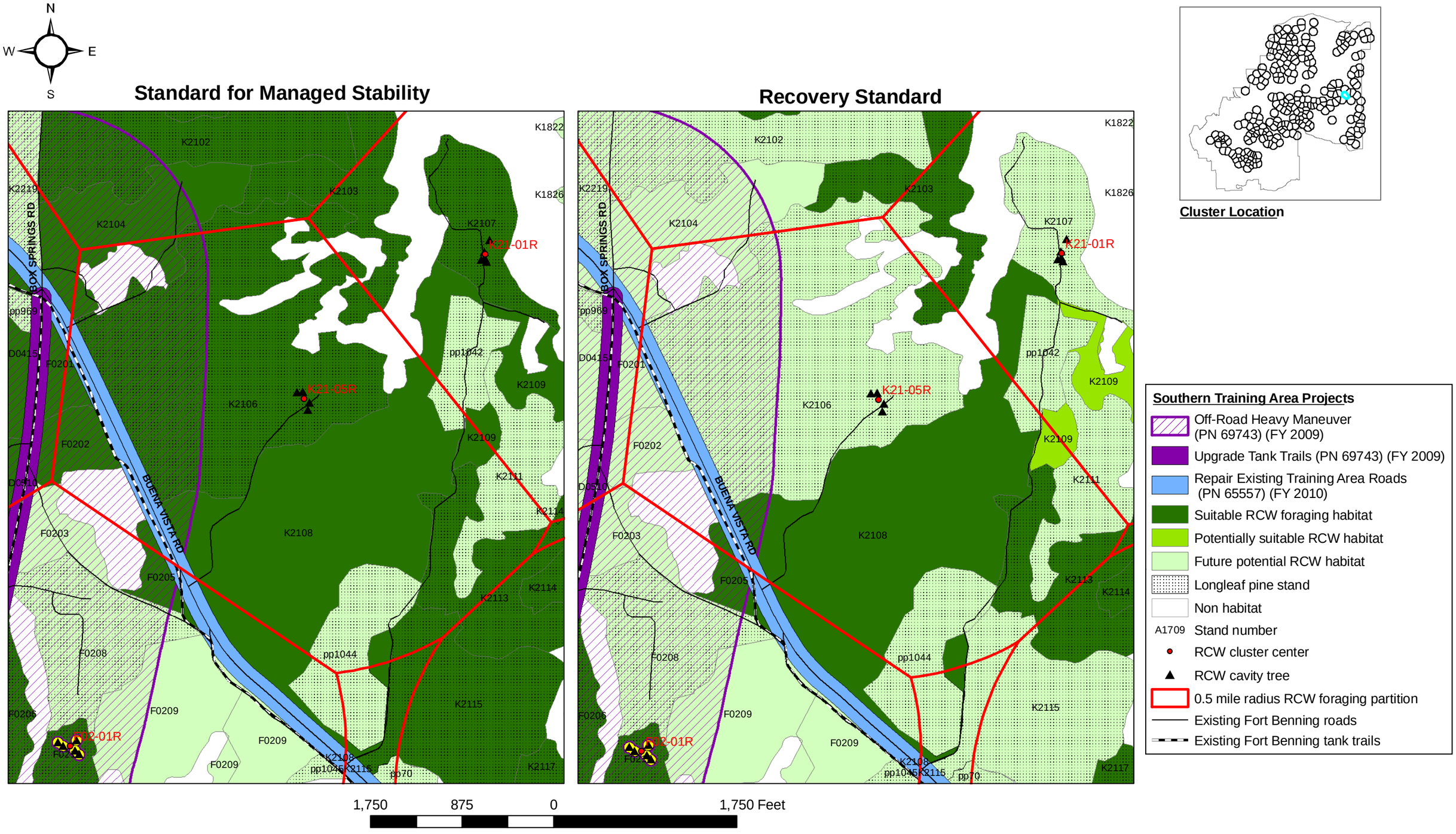
Appendix Figure I-74. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **K13-05R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



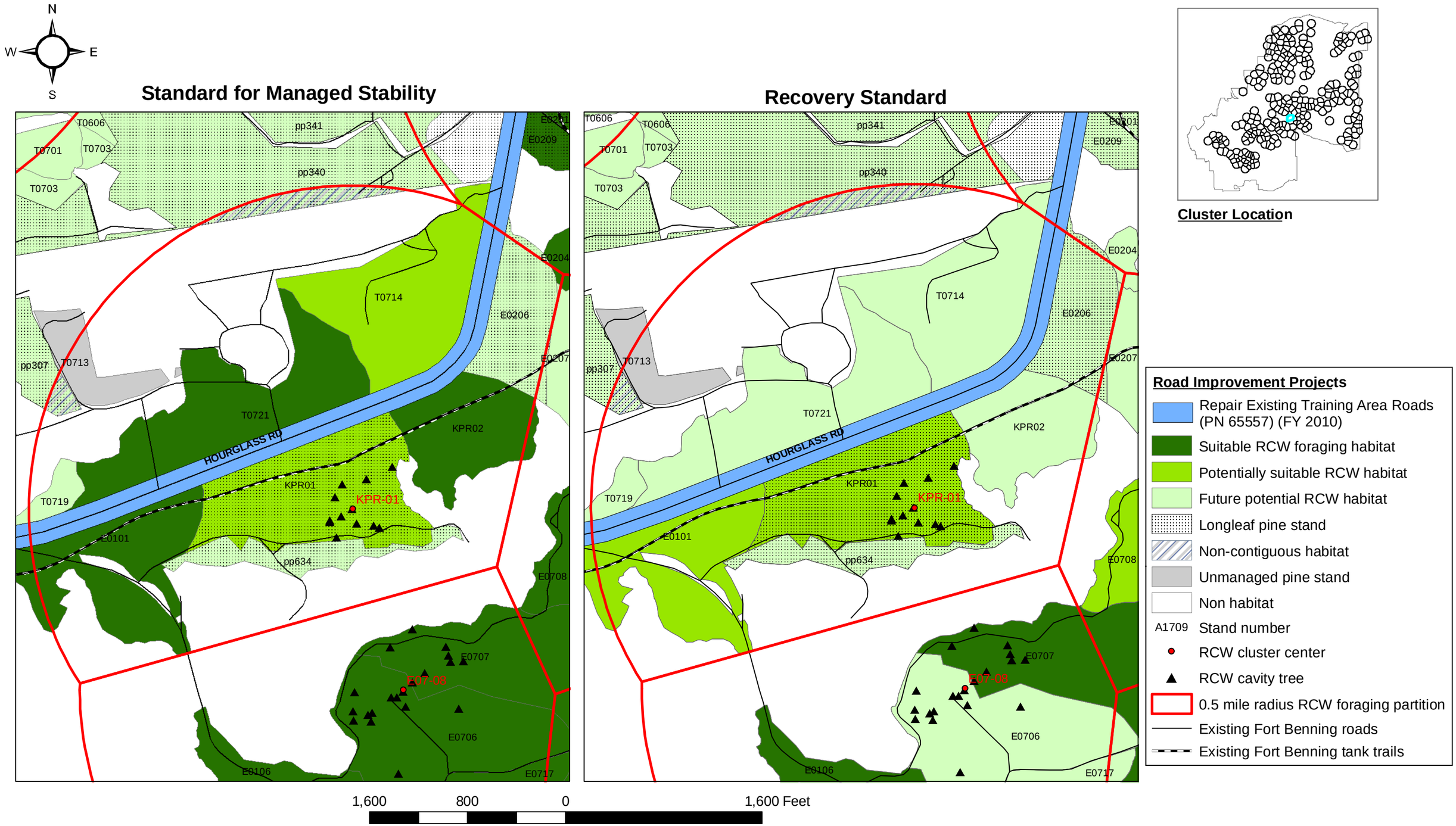
Appendix Figure I-75. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **K13-06** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



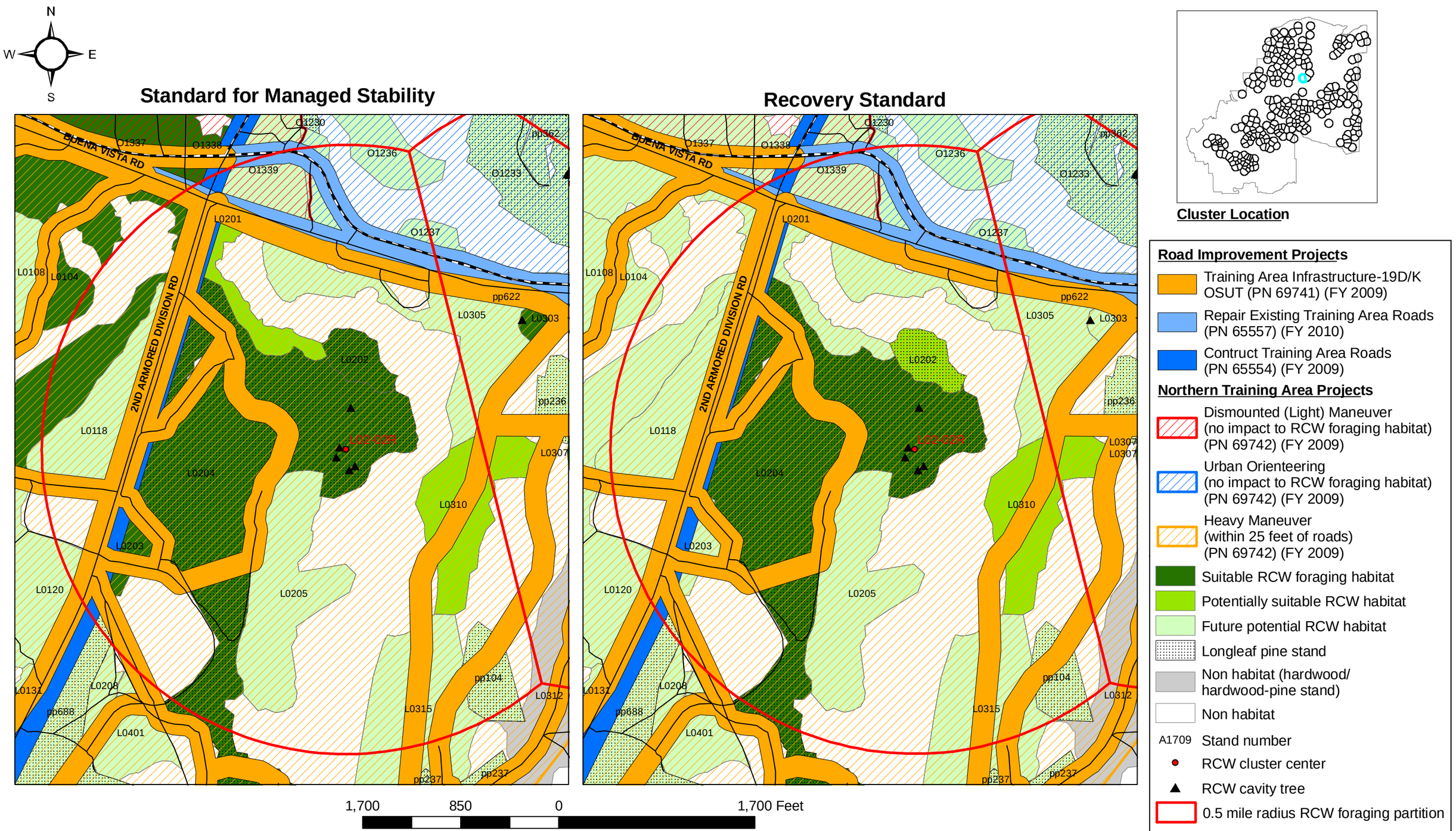
Appendix Figure I-76. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **K21-02R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



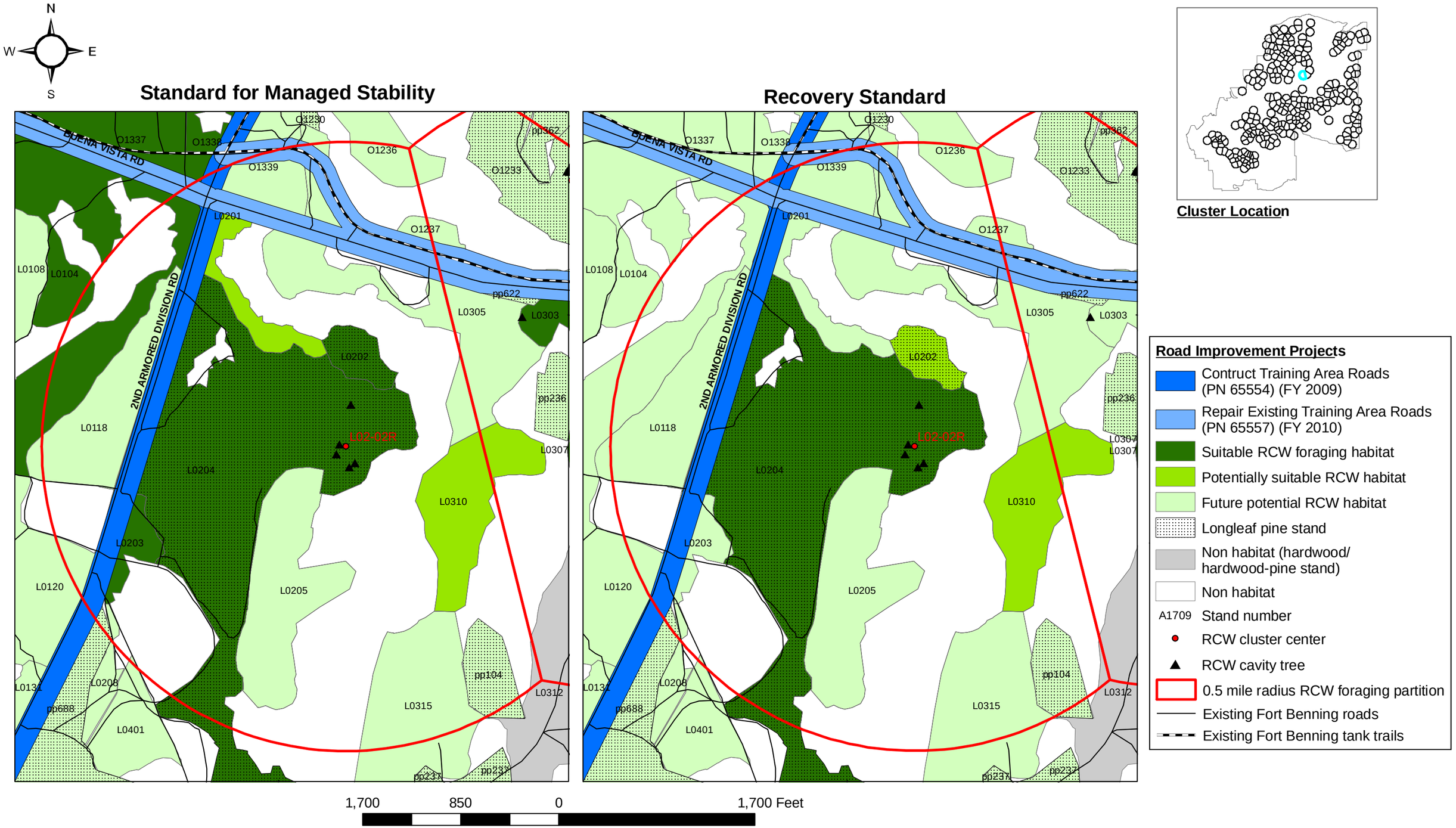
Appendix Figure I-77. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **K21-05R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



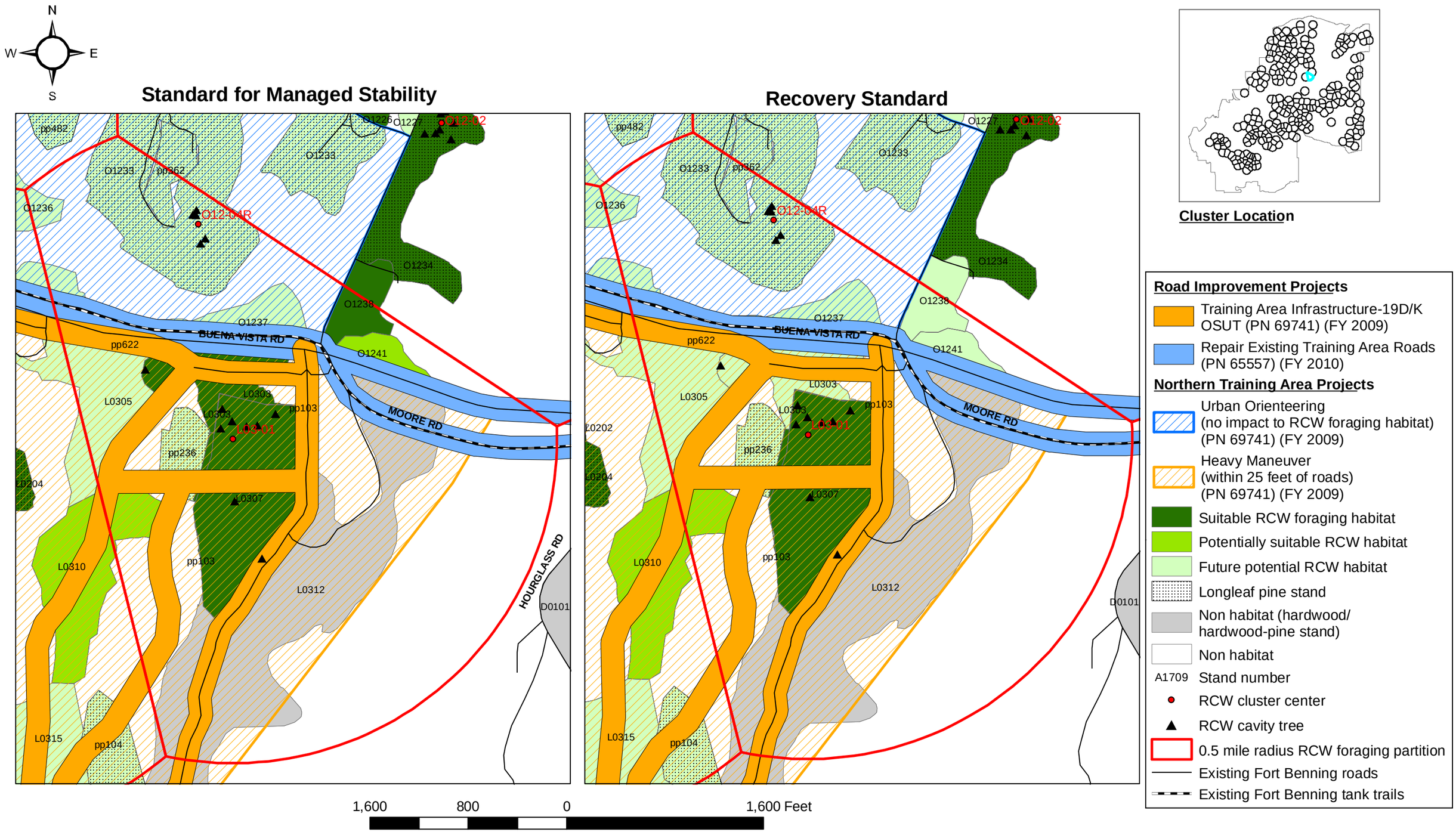
Appendix Figure I-78. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **KPR-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



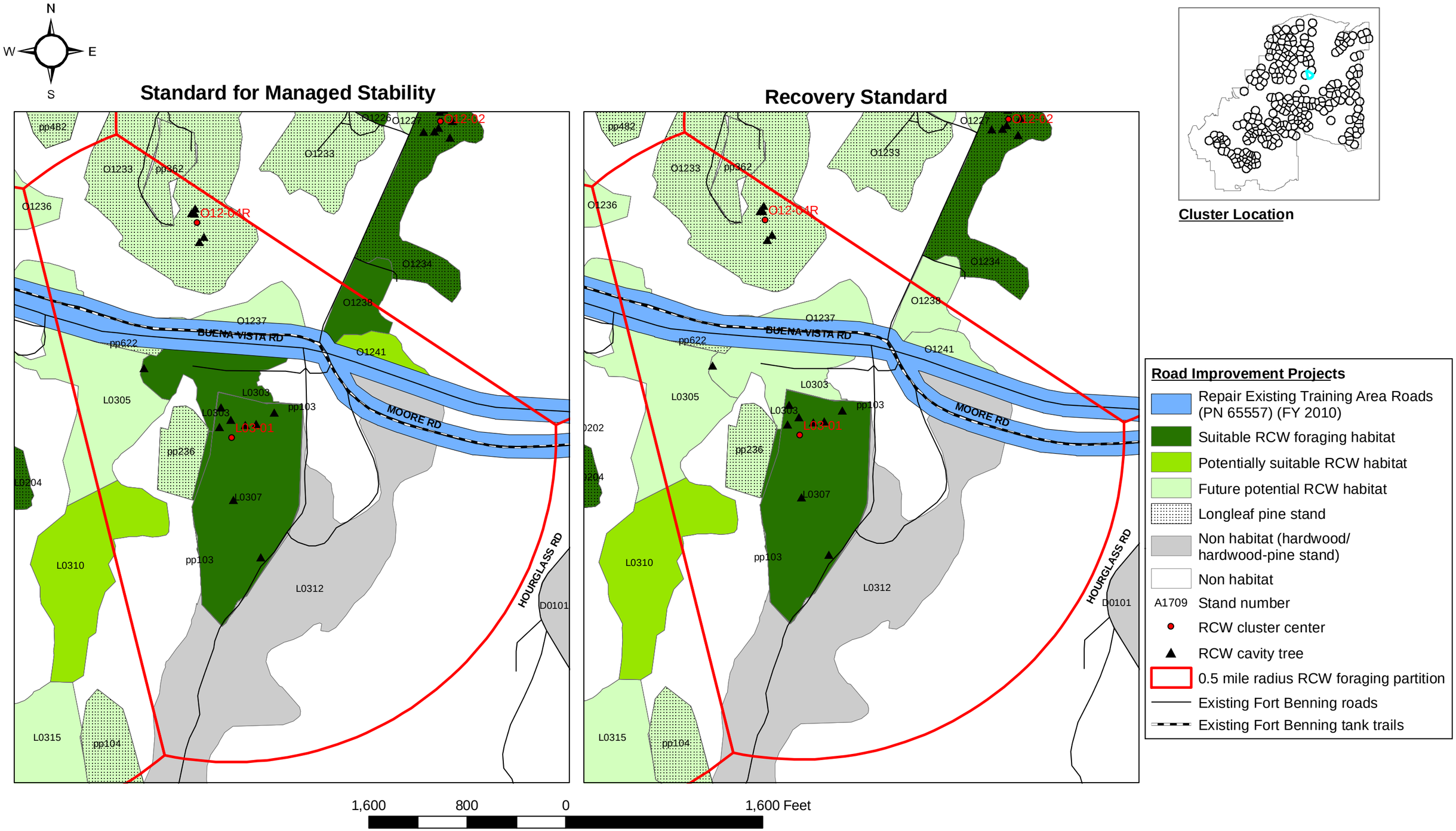
Appendix Figure I-79. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **L02-02R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.



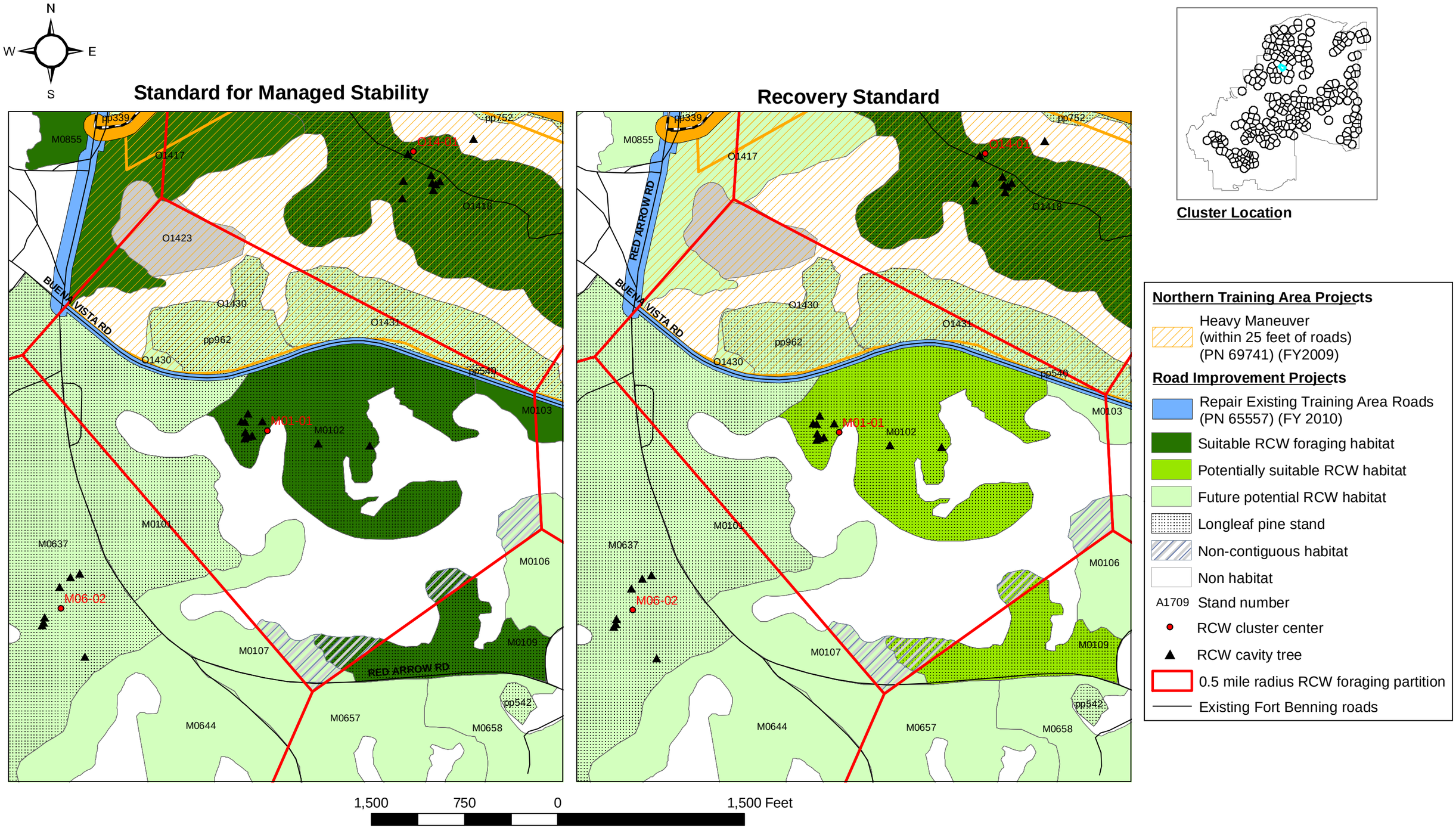
Appendix Figure I-80. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **L02-02R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.



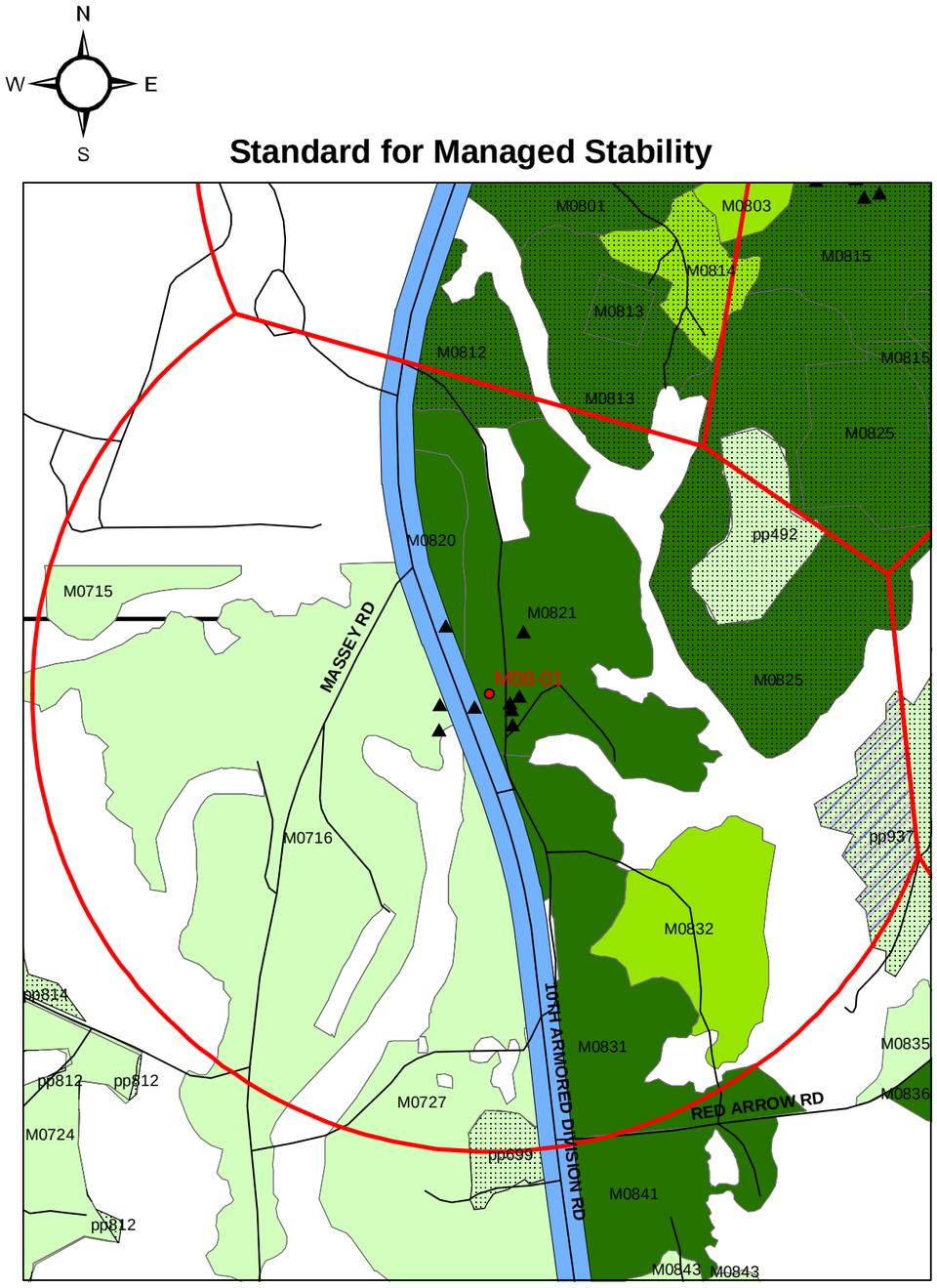
Appendix Figure I-81. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **L03-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.

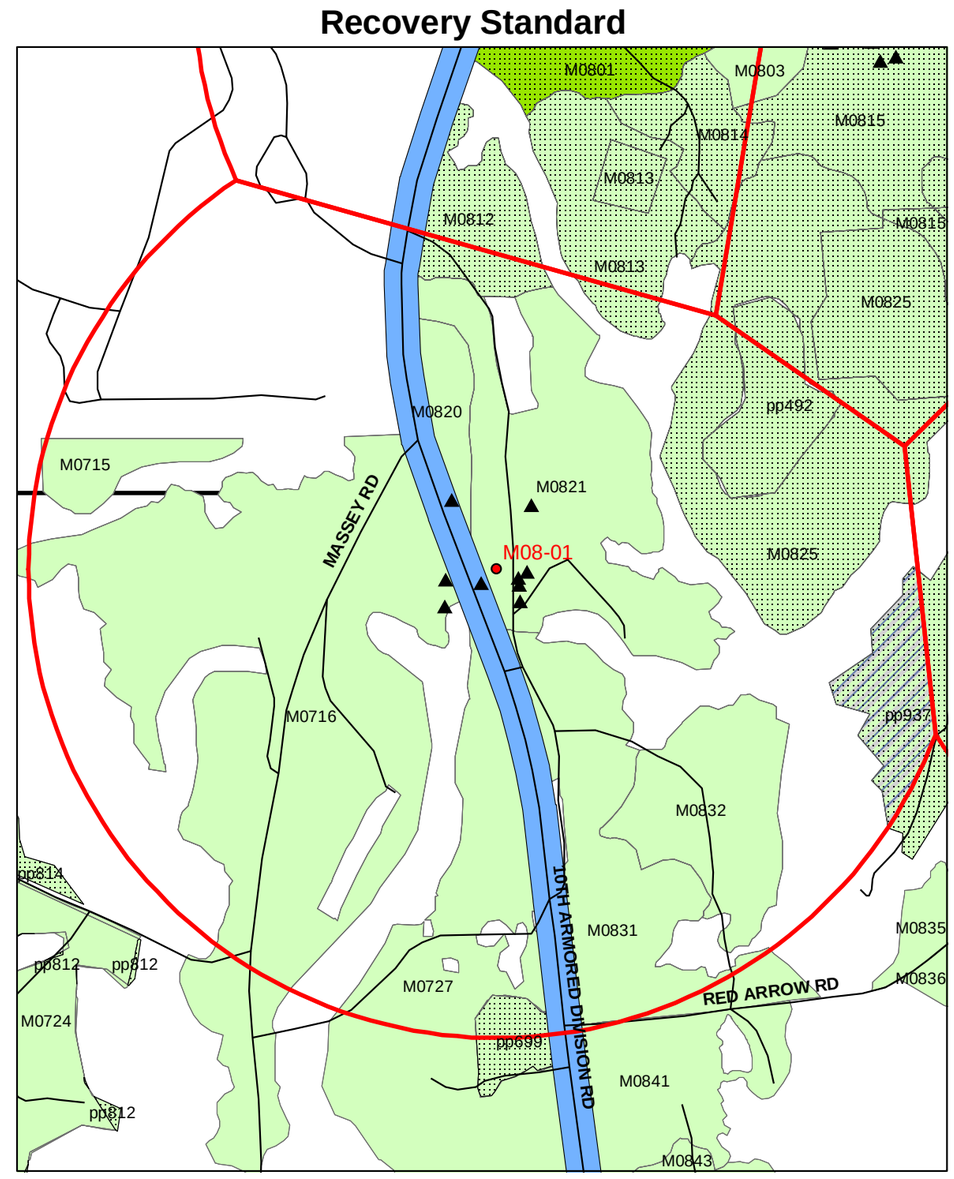


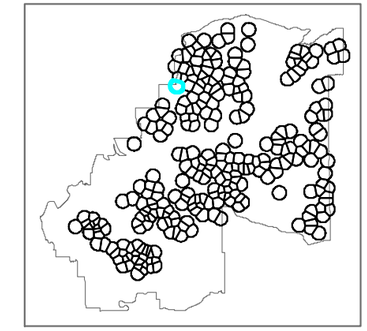
Appendix Figure I-82. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **L03-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.



Appendix Figure I-83. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **M01-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.







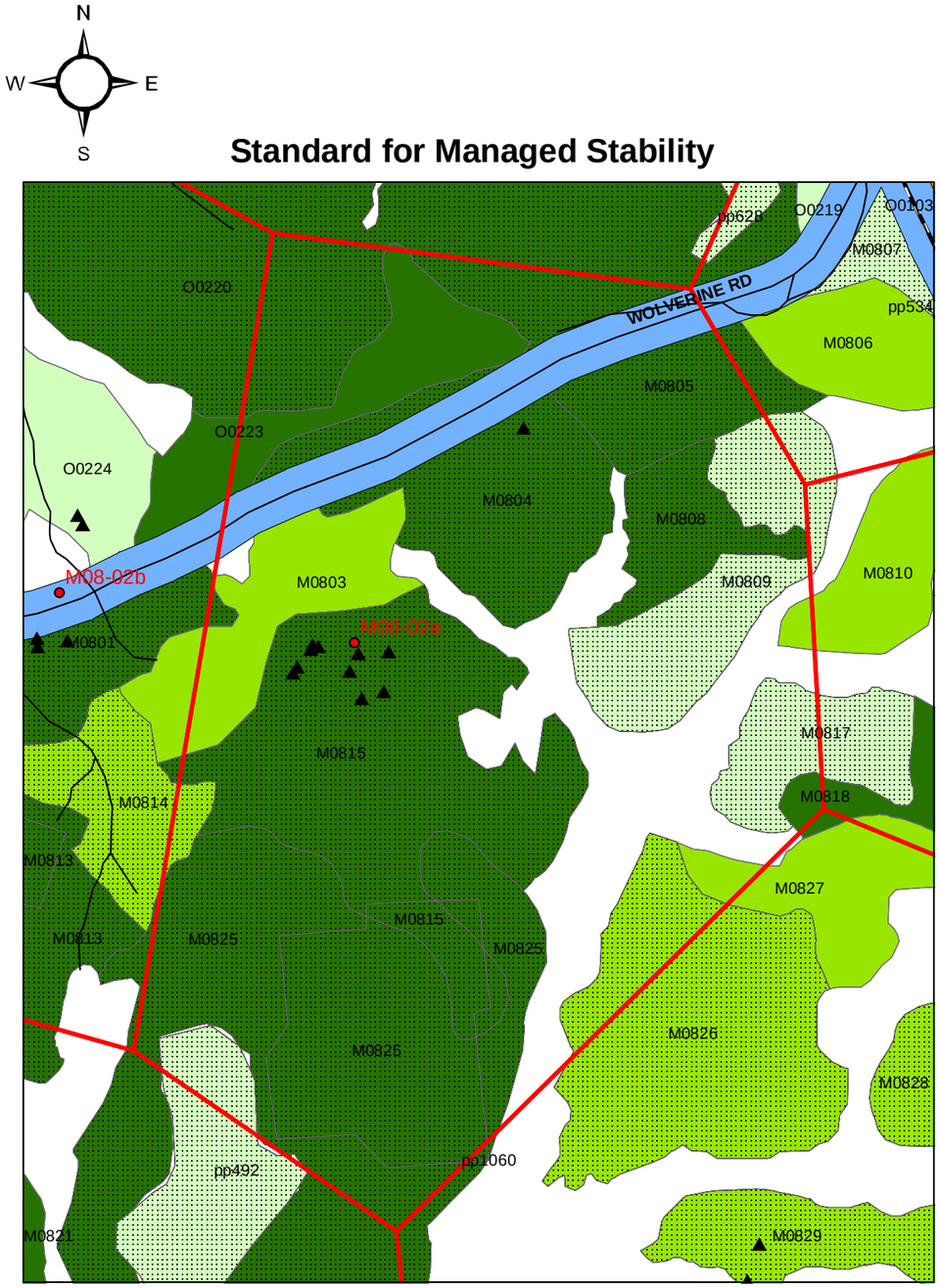
Cluster Location

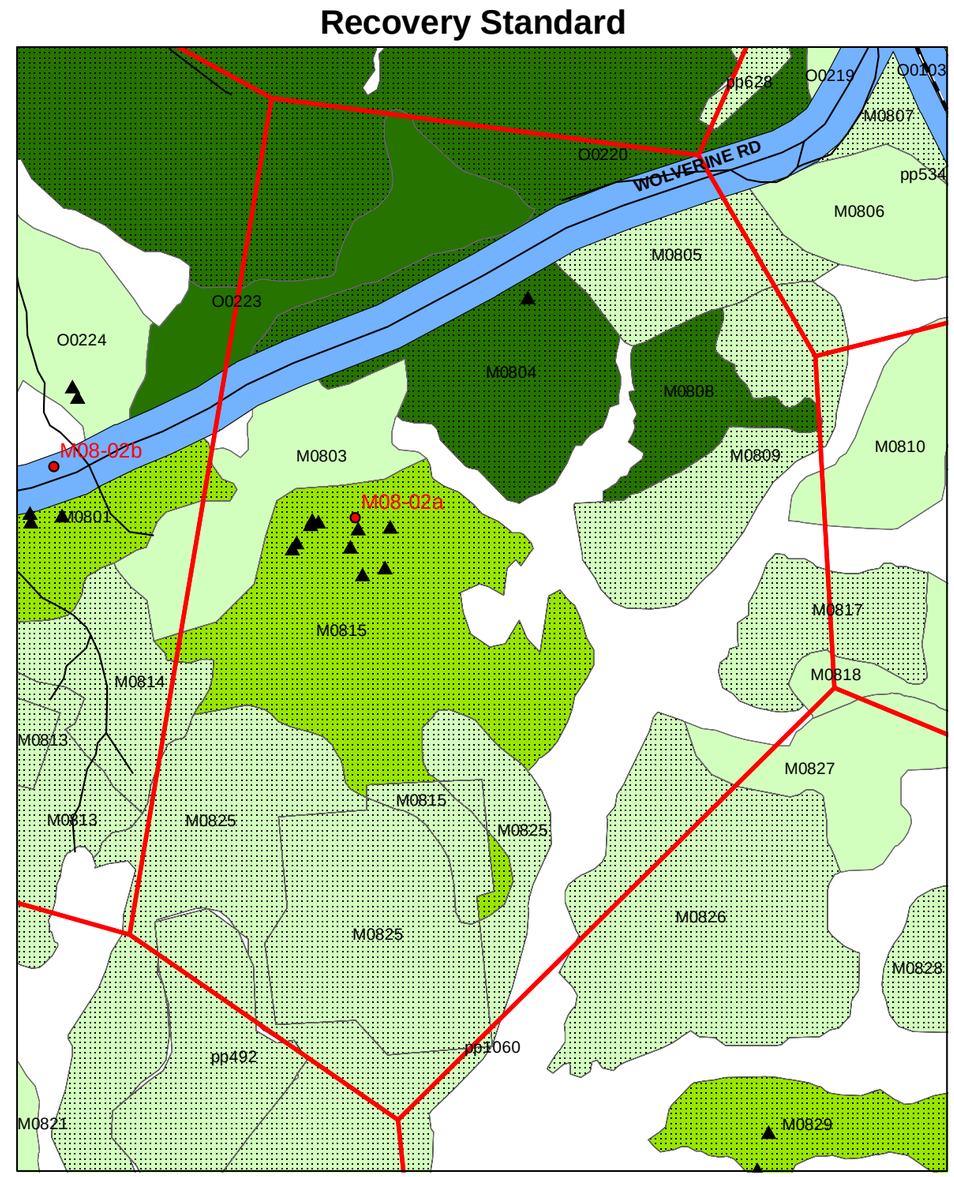
Road Improvement Projects

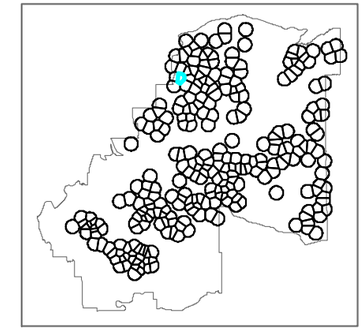
- Repair Existing Training Area Roads (PN 65557) (FY 2010)
- Suitable RCW foraging habitat
- Potentially suitable RCW habitat
- Future potential RCW habitat
- Longleaf pine stand
- Non-contiguous habitat
- Non habitat
- A1709 Stand number
- RCW cluster center
- RCW cavity tree
- 0.5 mile radius RCW foraging partition
- Existing Fort Benning roads

1,750 875 0 1,750 Feet

Appendix Figure I-84. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **M08-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.







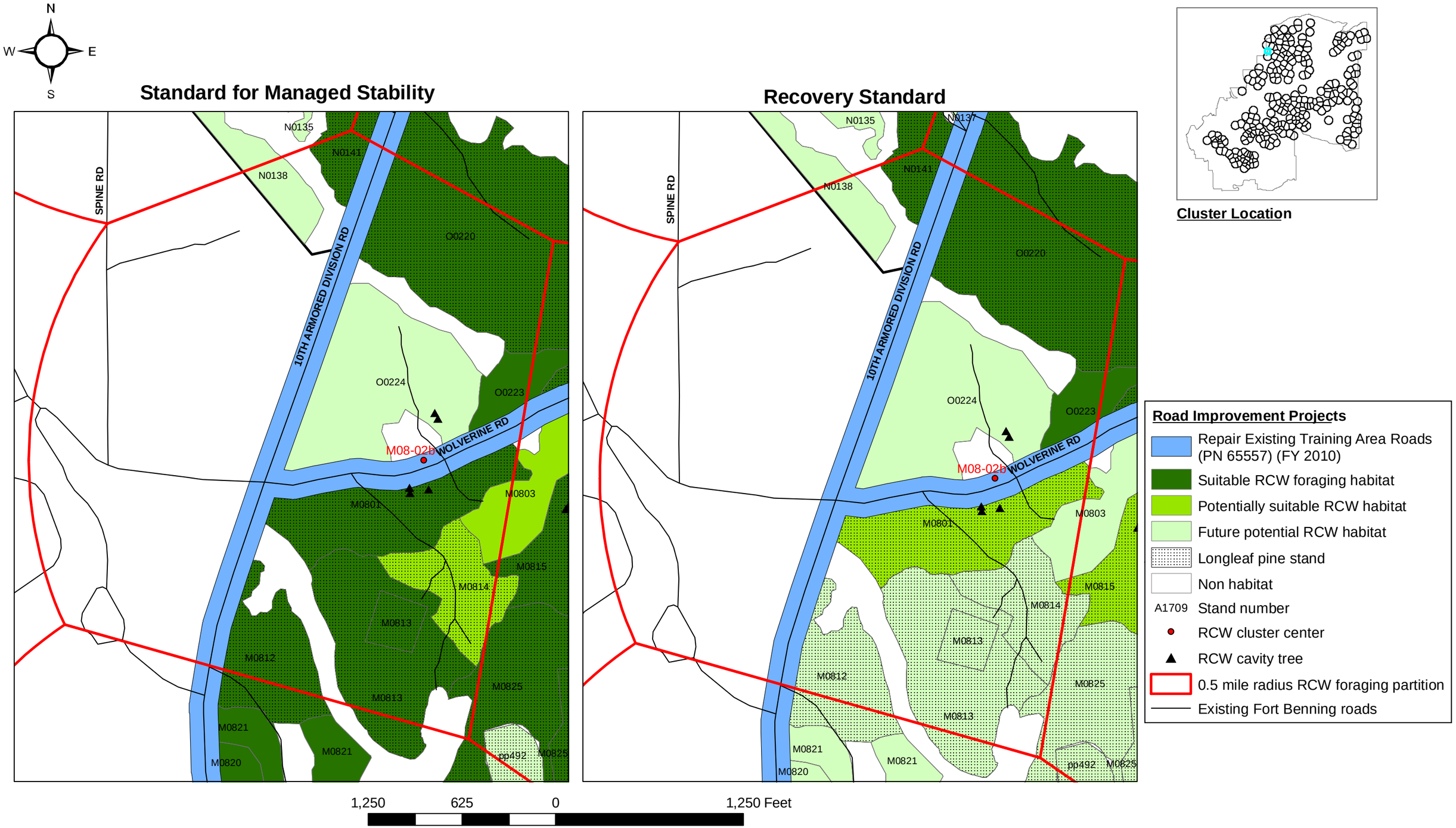
Cluster Location

Road Improvement Projects

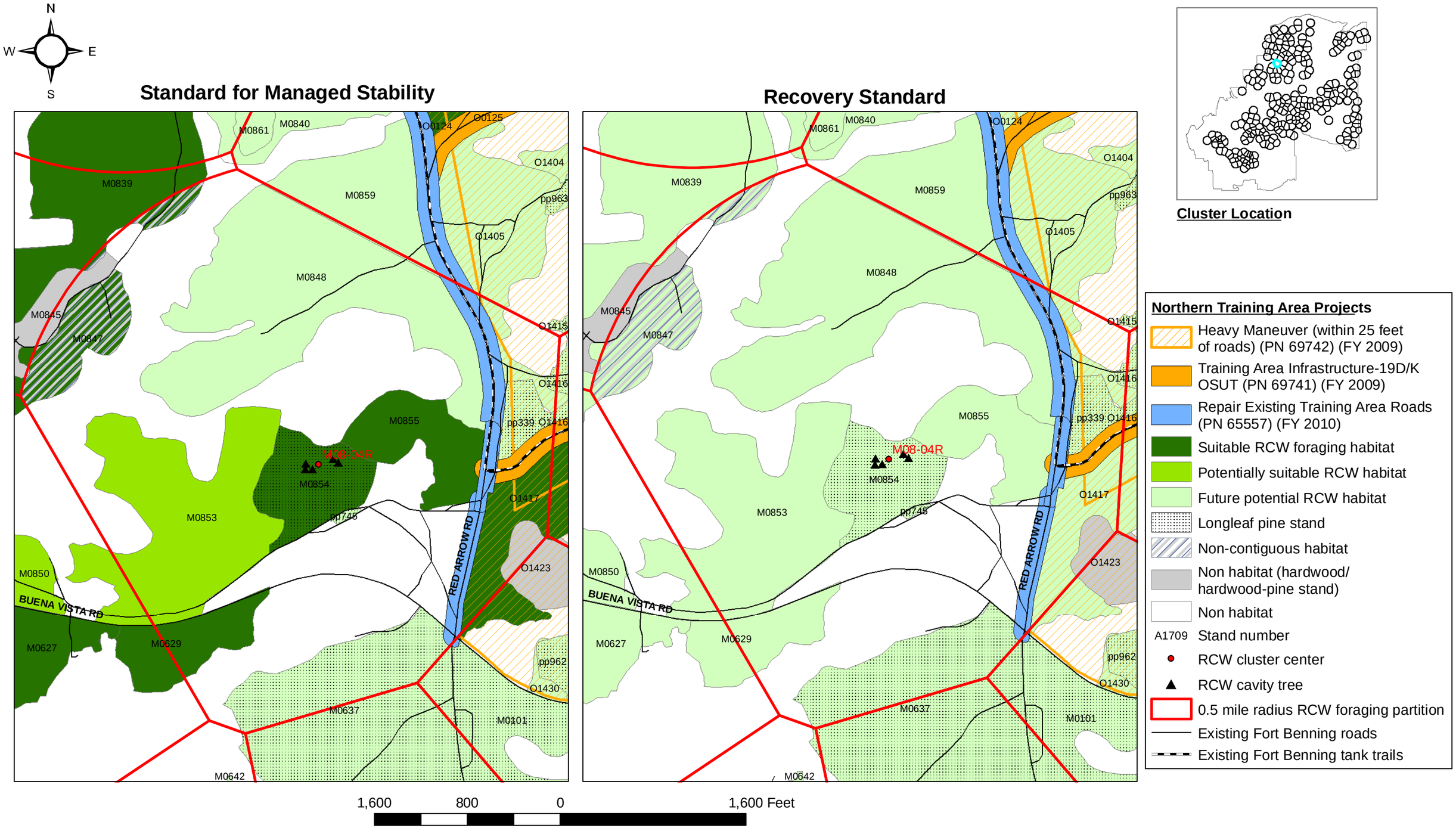
- Repair Existing Training Area Roads (PN 65557) (FY 2010)
- Suitable RCW foraging habitat
- Potentially suitable RCW habitat
- Future potential RCW habitat
- Longleaf pine stand
- Non habitat
- A1709 Stand number
- RCW cluster center
- RCW cavity tree
- 0.5 mile radius RCW foraging partition
- Existing Fort Benning roads

1,250 625 0 1,250 Feet

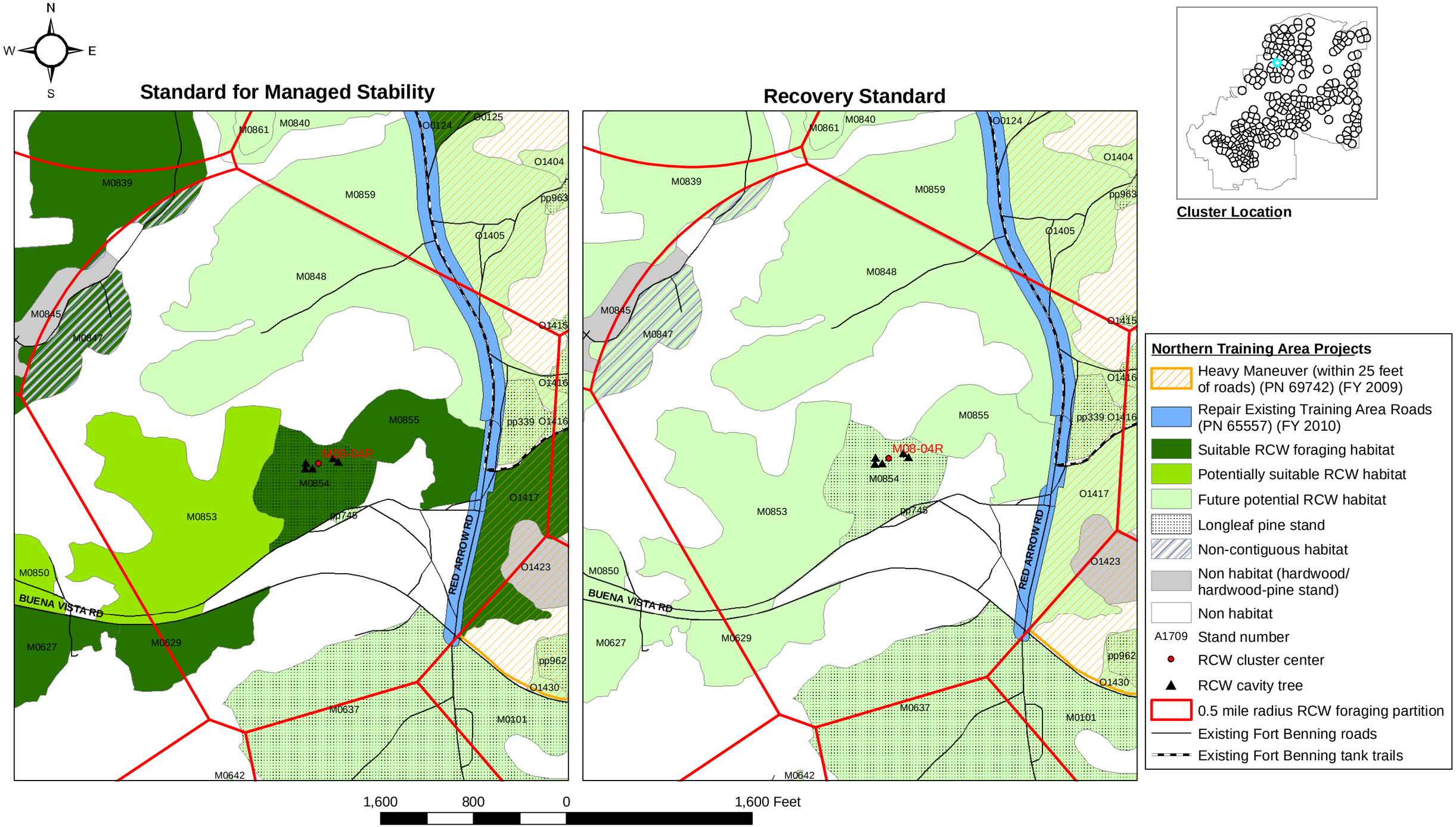
Appendix Figure I-85. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **M08-02a** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



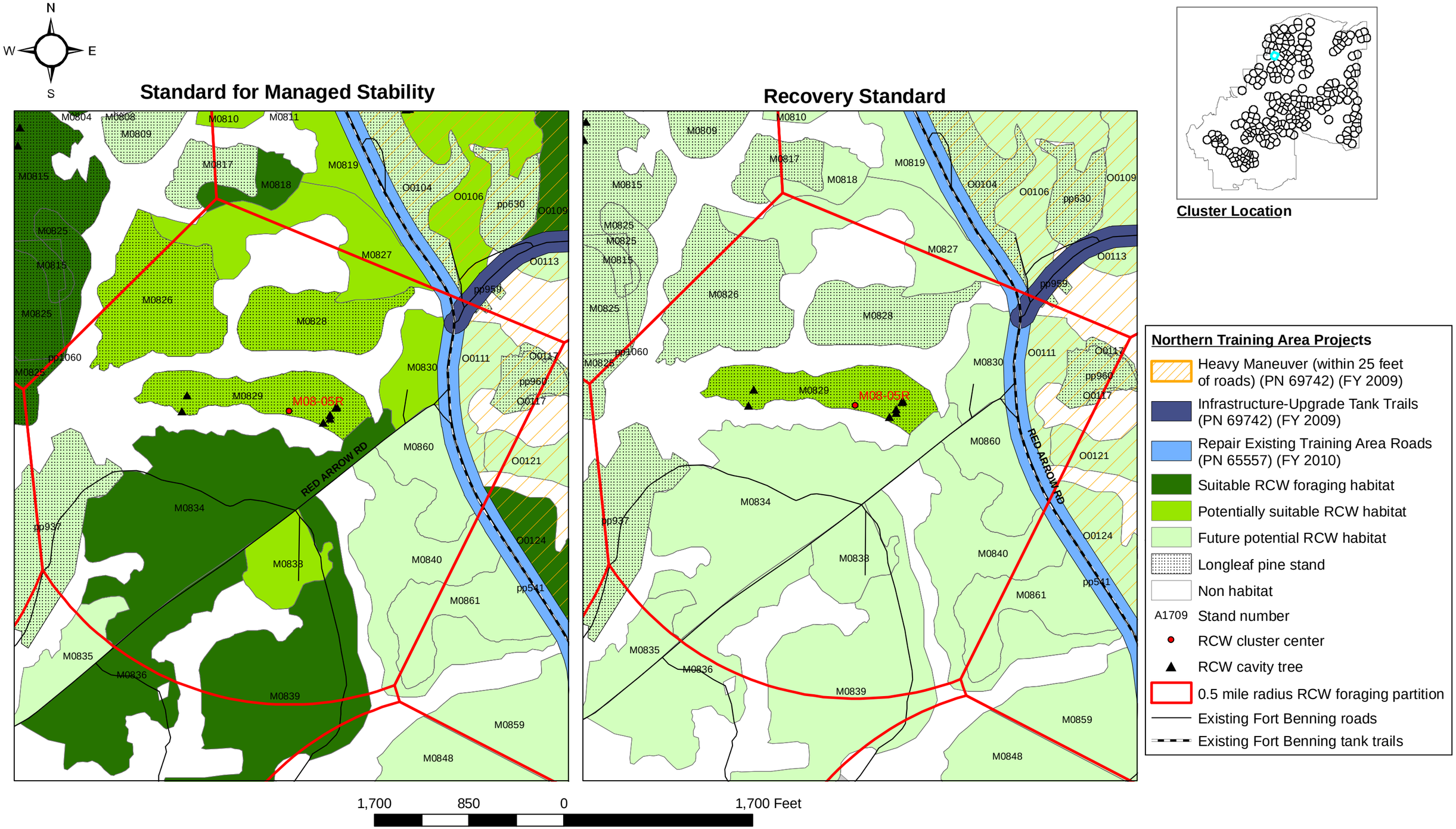
Appendix Figure I-86. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **M08-02b** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



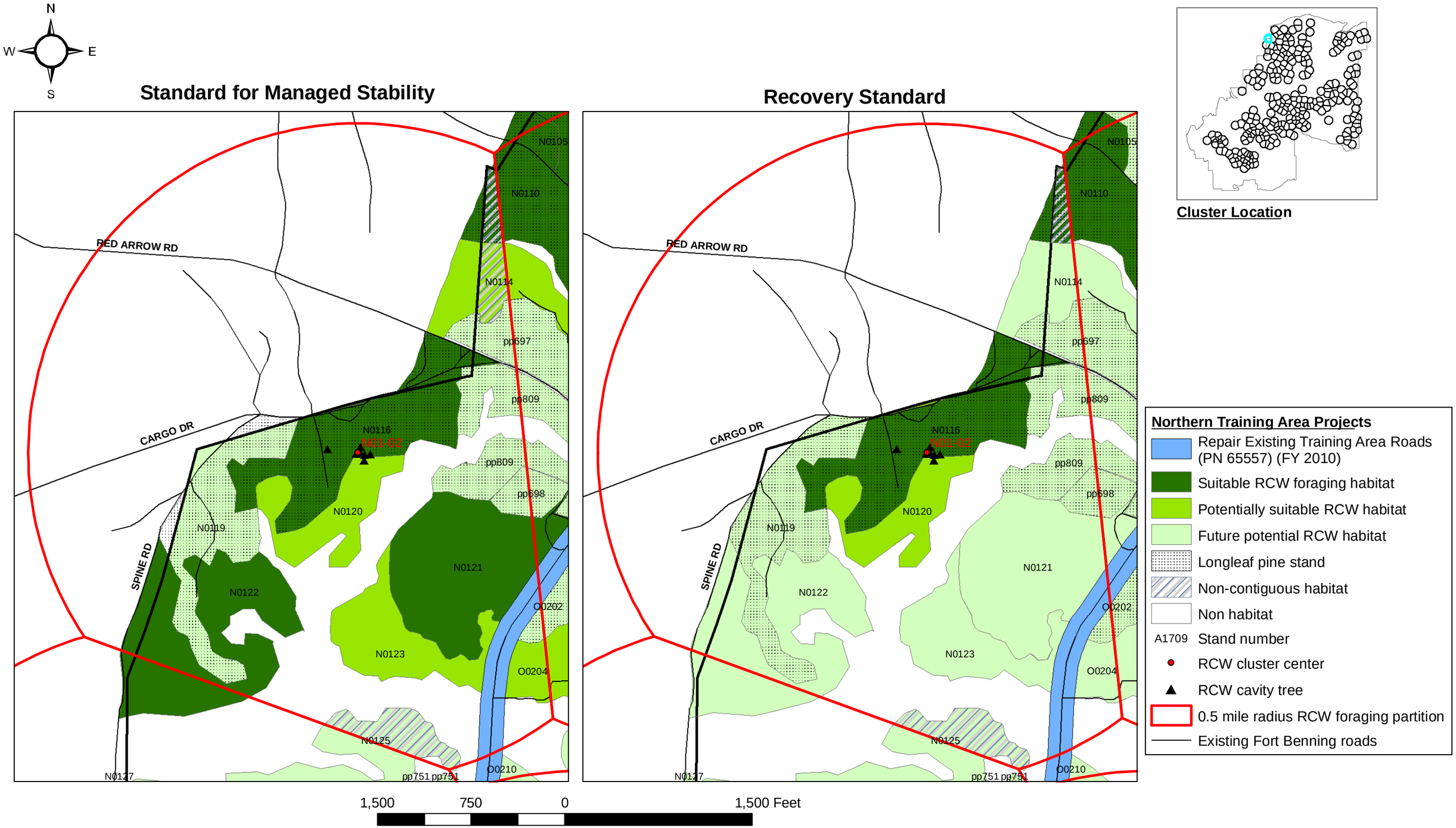
Appendix Figure I-87. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **M08-04R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.



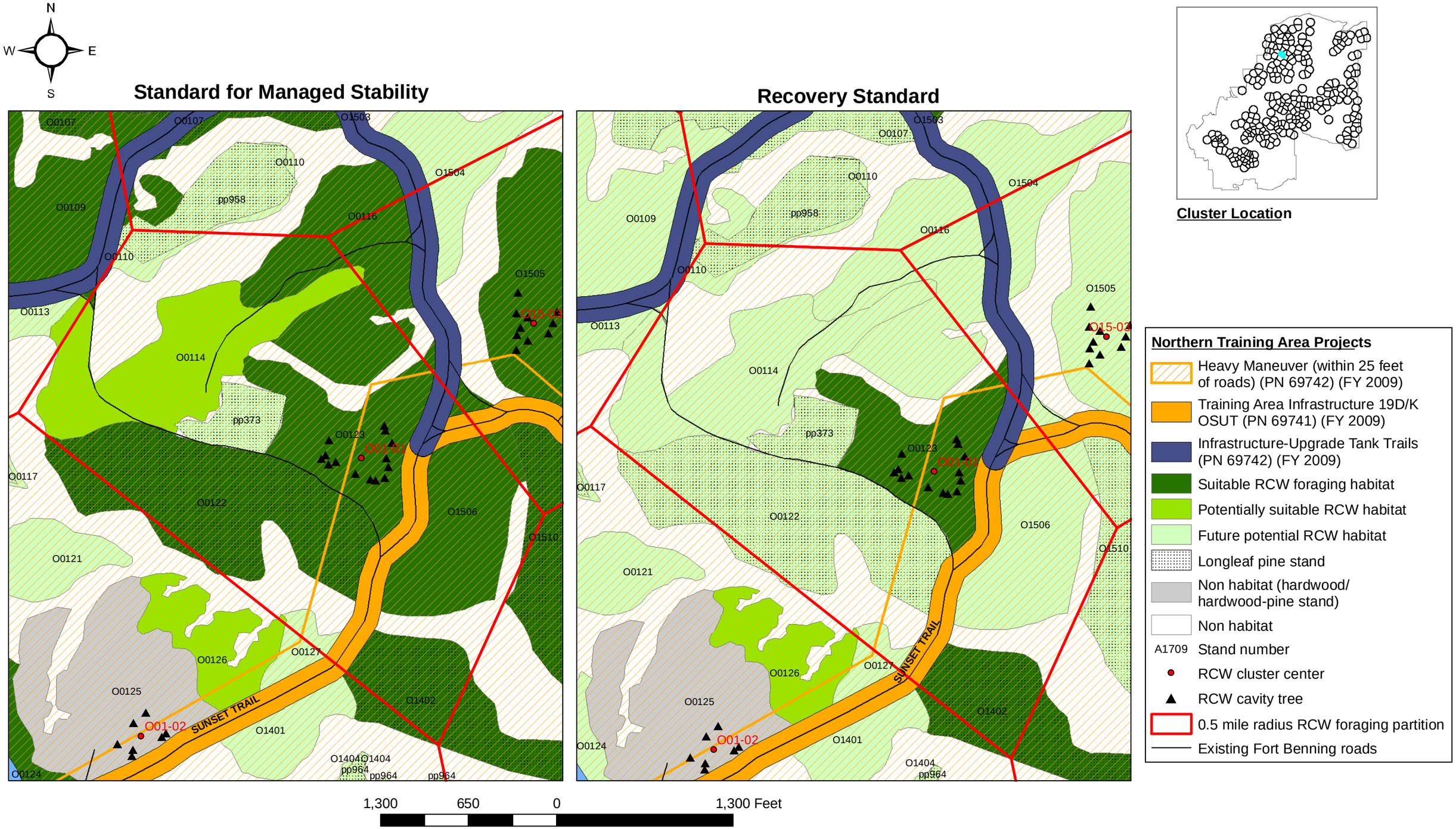
Appendix Figure I-88. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **M08-04R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.



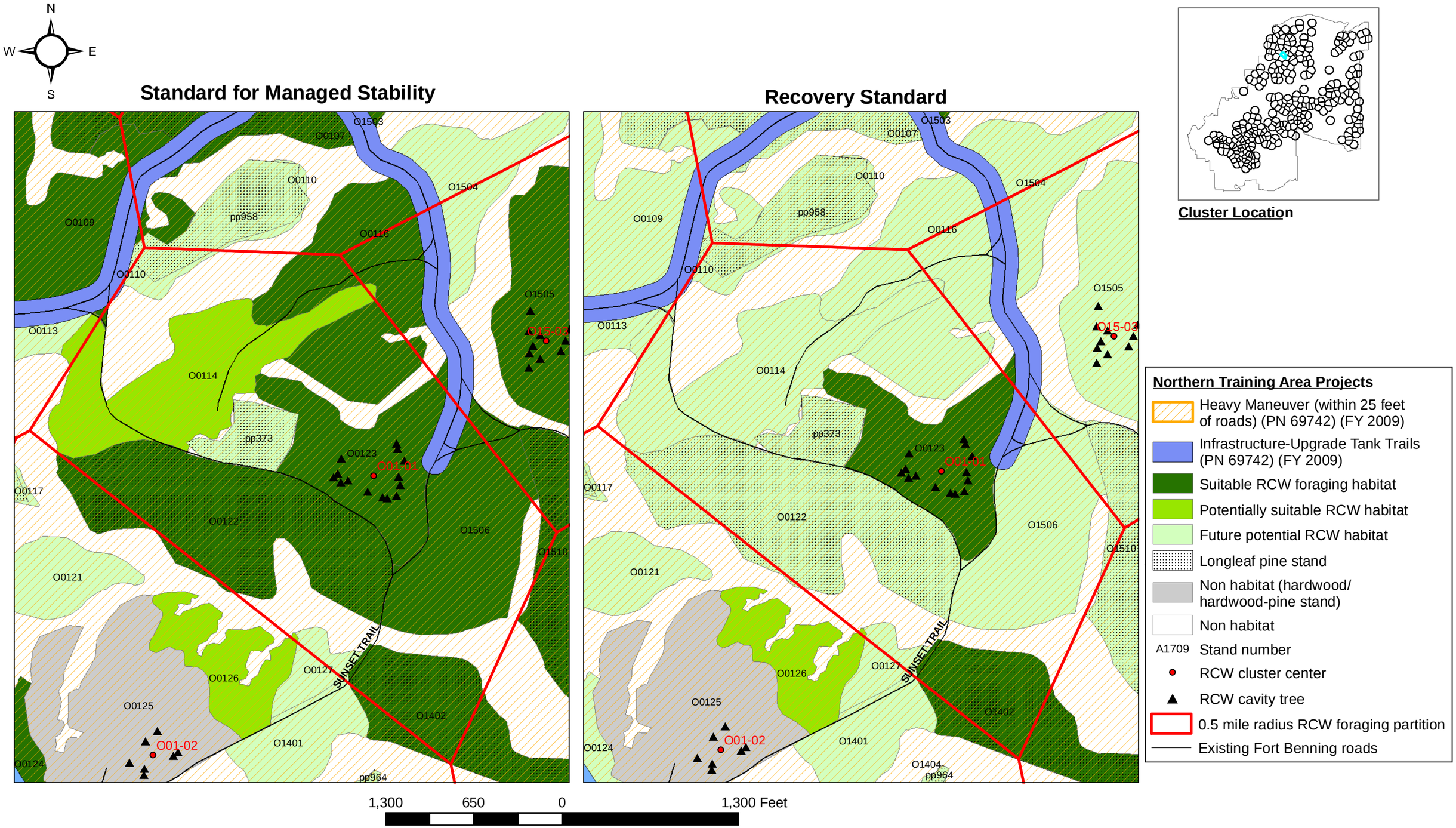
Appendix Figure I-89. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **M08-05R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



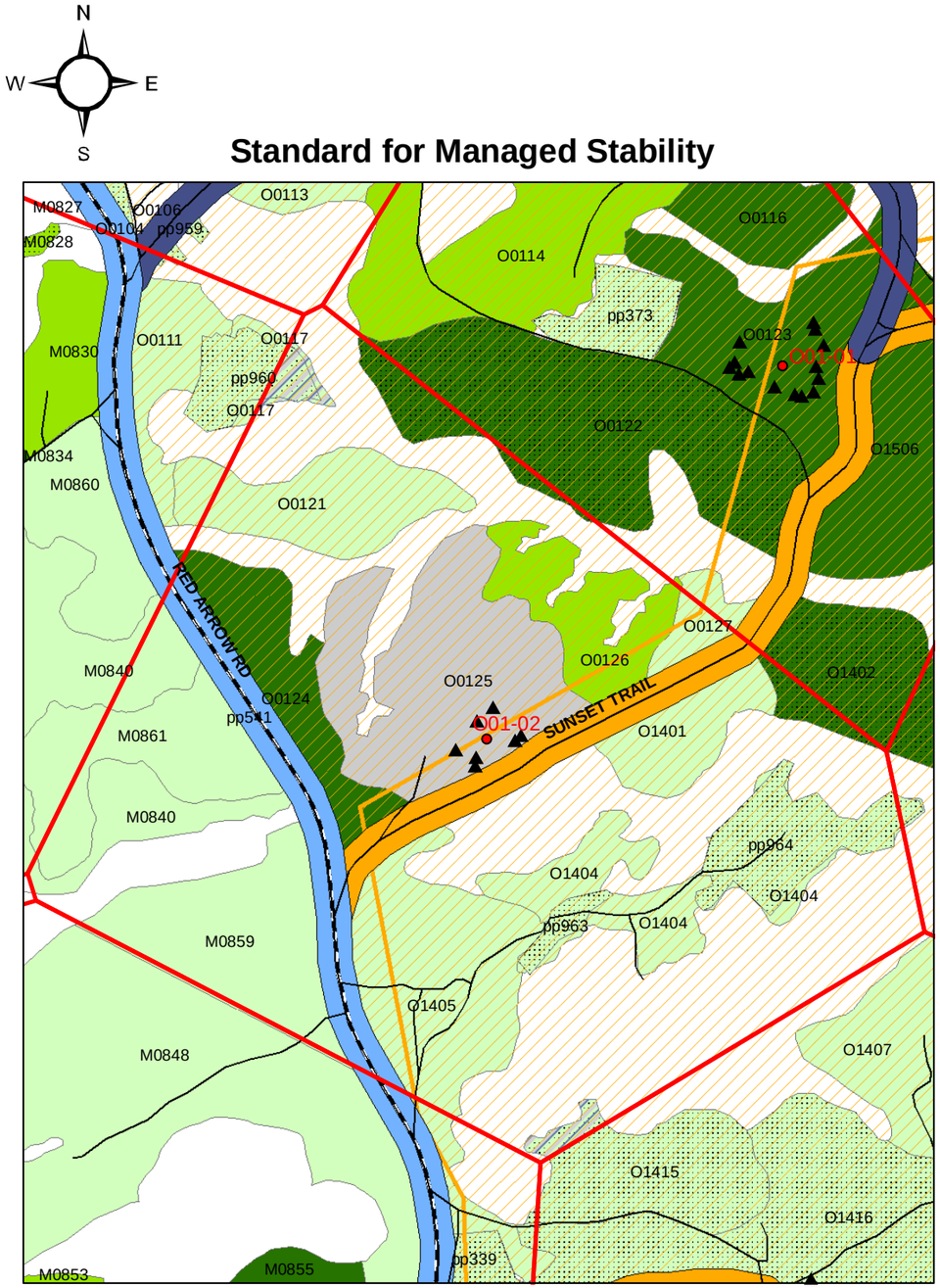
Appendix Figure I-90. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **N01-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.

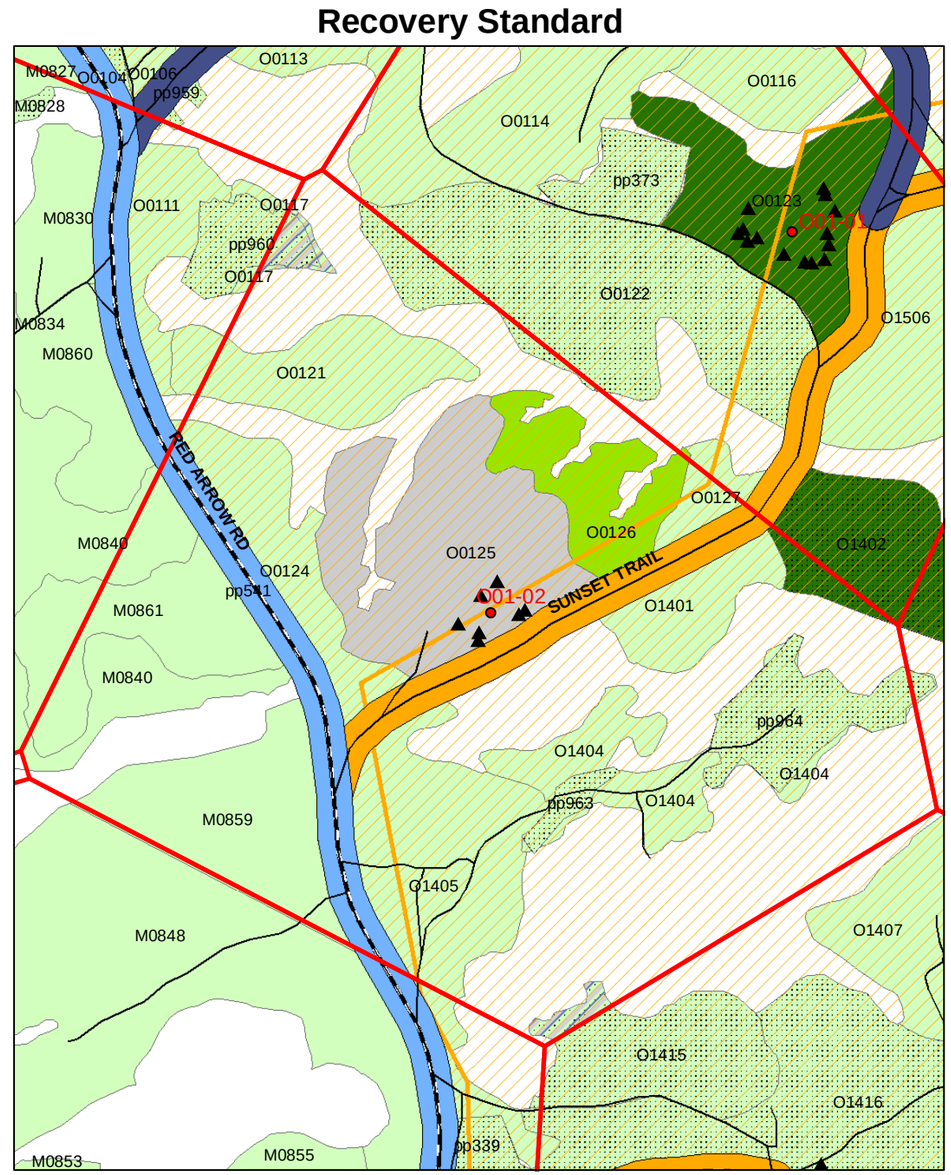


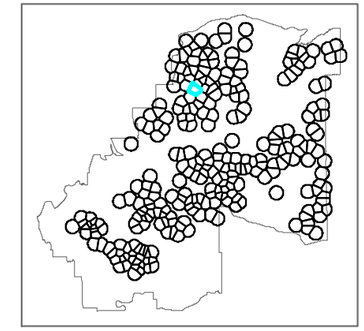
Appendix Figure I-91. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O01-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.



Appendix Figure I-92. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O01-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.







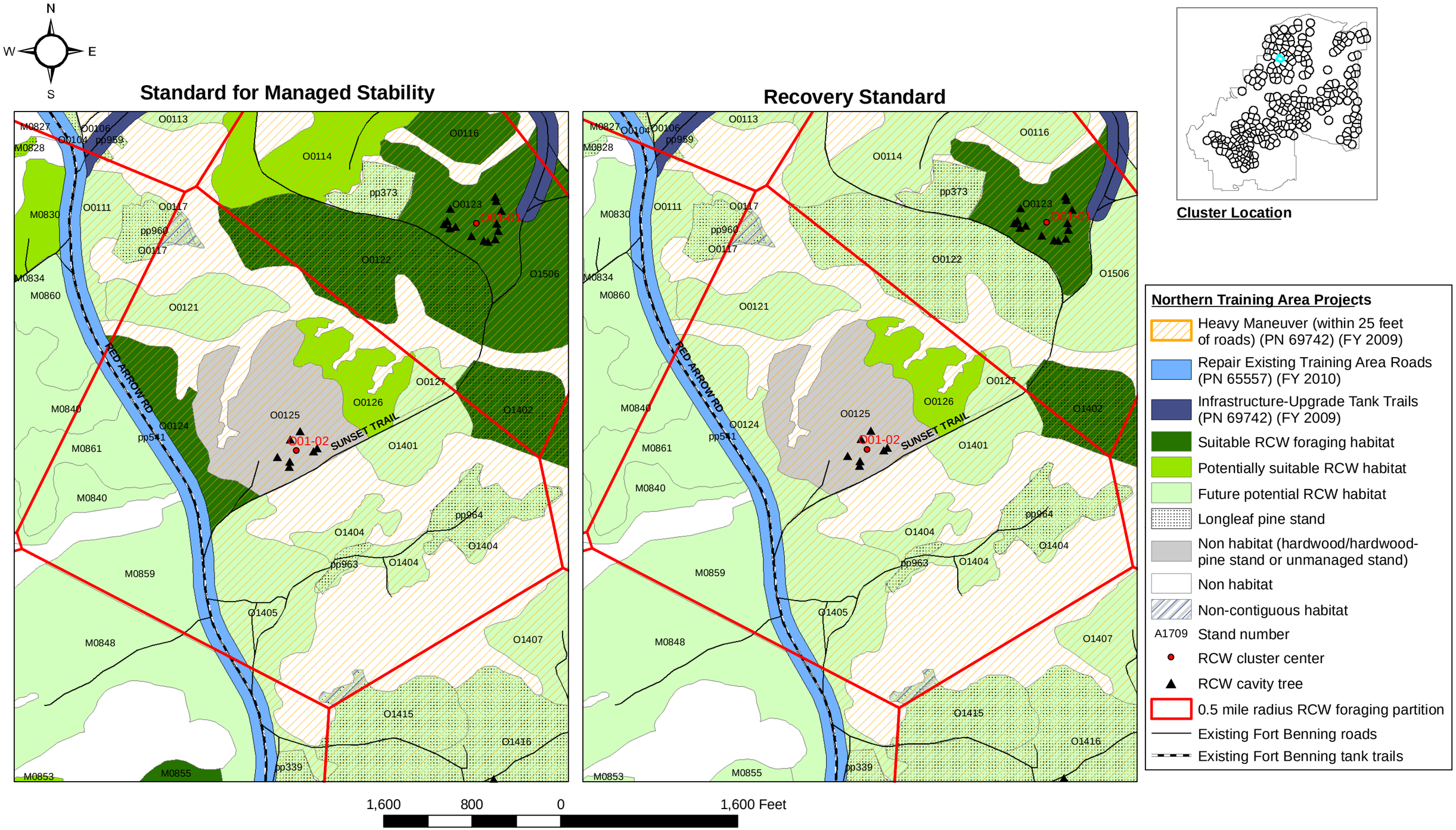
Cluster Location

Northern Training Area Projects

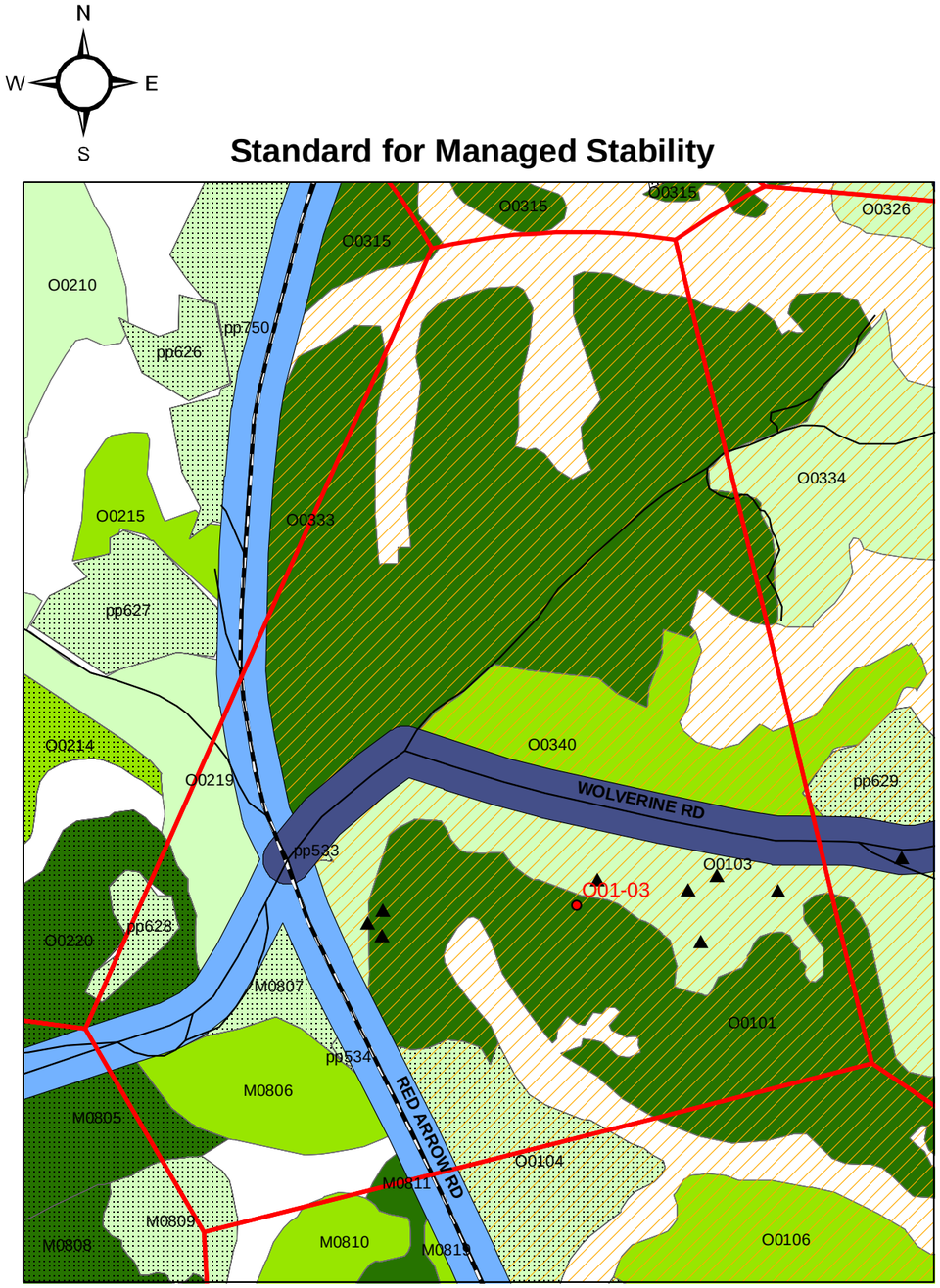
- Heavy Maneuver (within 25 feet of roads) (PN 69742) (FY 2009)
- Training Area Infrastructure 19D/K OSUT (PN 69741) (FY 2009)
- Infrastructure-Upgrade Tank Trails (PN 69742) (FY 2009)
- Repair Existing Training Area Roads (PN 65557) (FY 2010)
- Suitable RCW foraging habitat
- Potentially suitable RCW habitat
- Future potential RCW habitat
- Longleaf pine stand
- Non habitat (hardwood/hardwood-pine or unmanaged stand)
- Non habitat
- Non-contiguous habitat
- A1709 Stand number
- RCW cluster center
- RCW cavity tree
- 0.5 mile radius RCW foraging partition
- Existing Fort Benning roads
- Existing Fort Benning tank trails

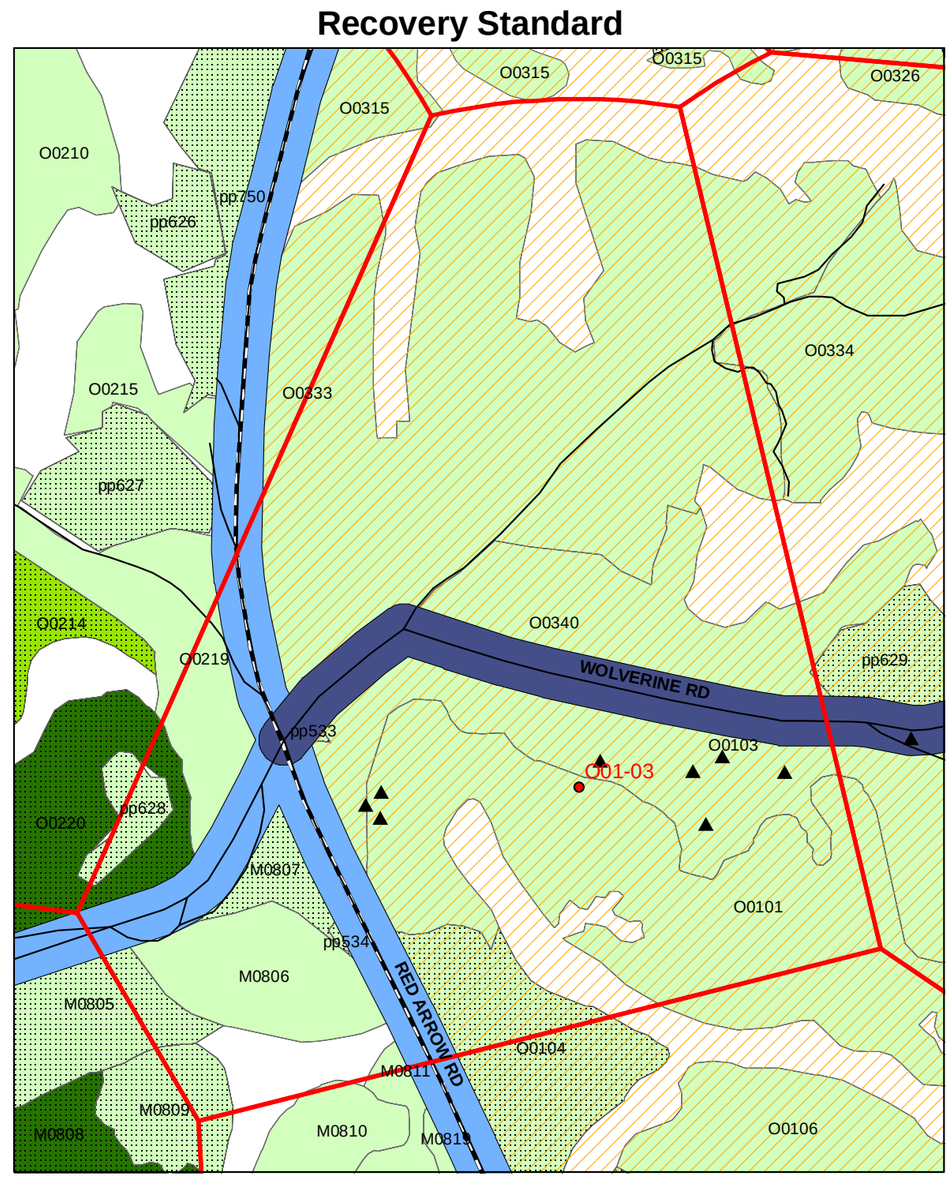
1,600 800 0 1,600 Feet

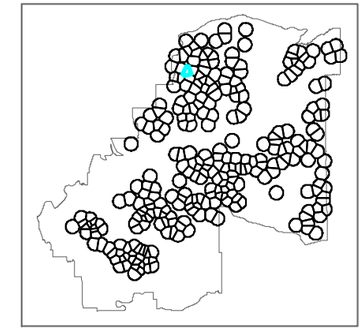
Appendix Figure I-93. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O01-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.



Appendix Figure I-94. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O01-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.







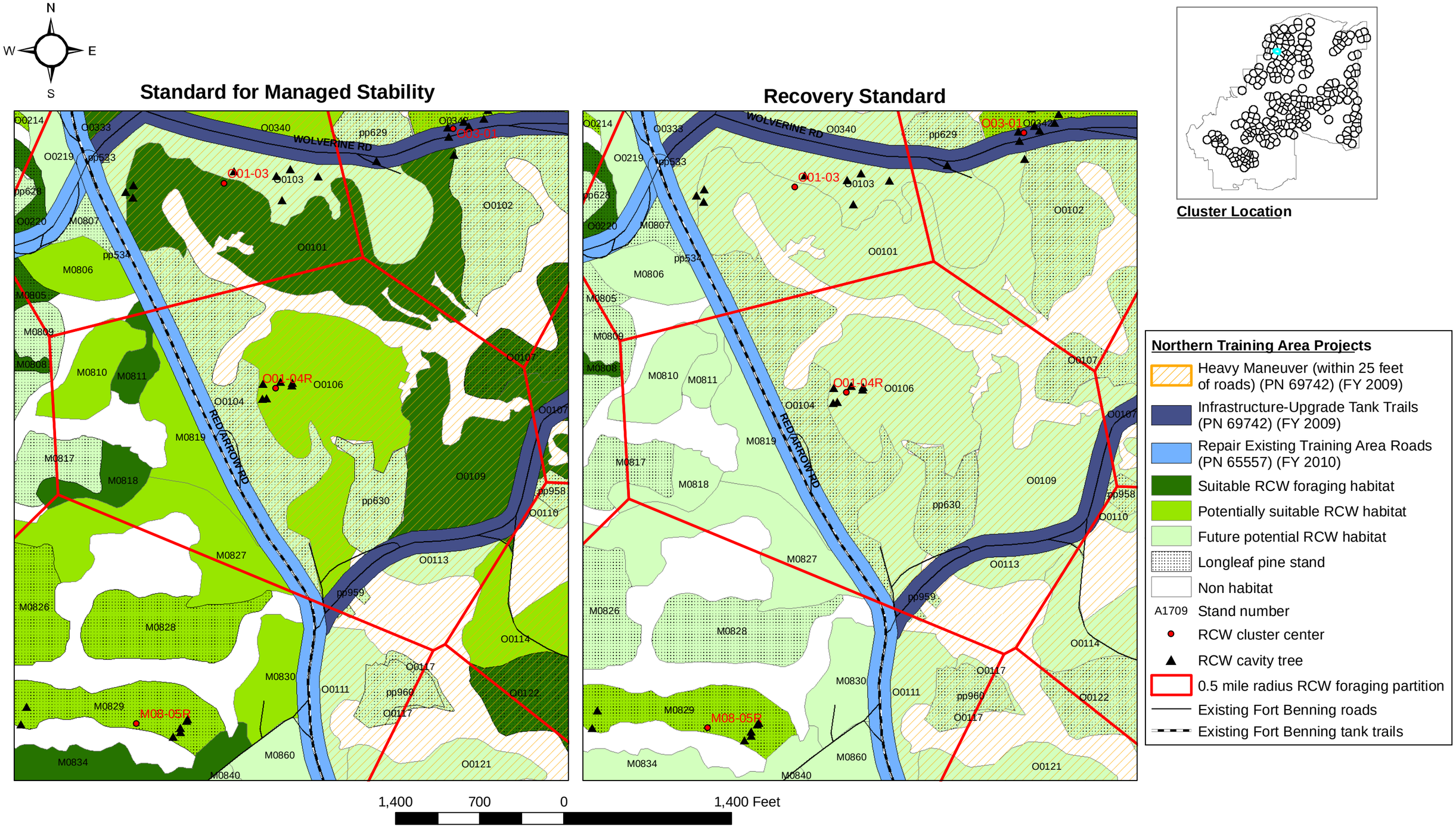
Cluster Location

Northern Training Area Projects

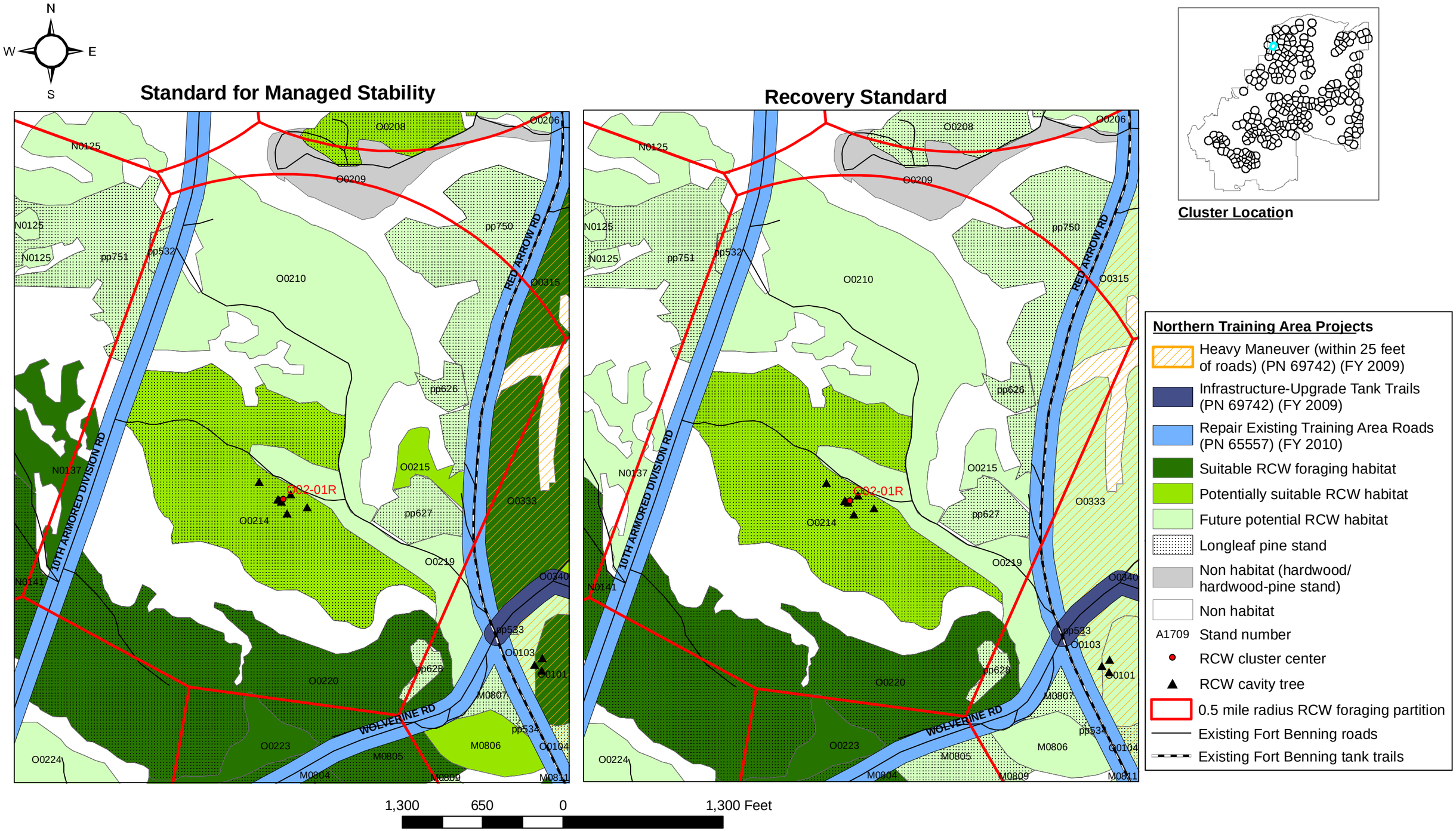
- Heavy Maneuver (within 25 feet of roads) (PN 69742) (FY 2009)
- Infrastructure-Upgrade Tank Trails (PN 69742) (FY 2009)
- Repair Existing Training Area Roads (PN 65557) (FY 2010)
- Suitable RCW foraging habitat
- Potentially suitable RCW habitat
- Future potential RCW habitat
- Longleaf pine stand
- Non habitat
- A1709 Stand number
- RCW cluster center
- RCW cavity tree
- 0.5 mile radius RCW foraging partition
- Existing Fort Benning roads
- Existing Fort Benning tank trails

1,100 550 0 1,100 Feet

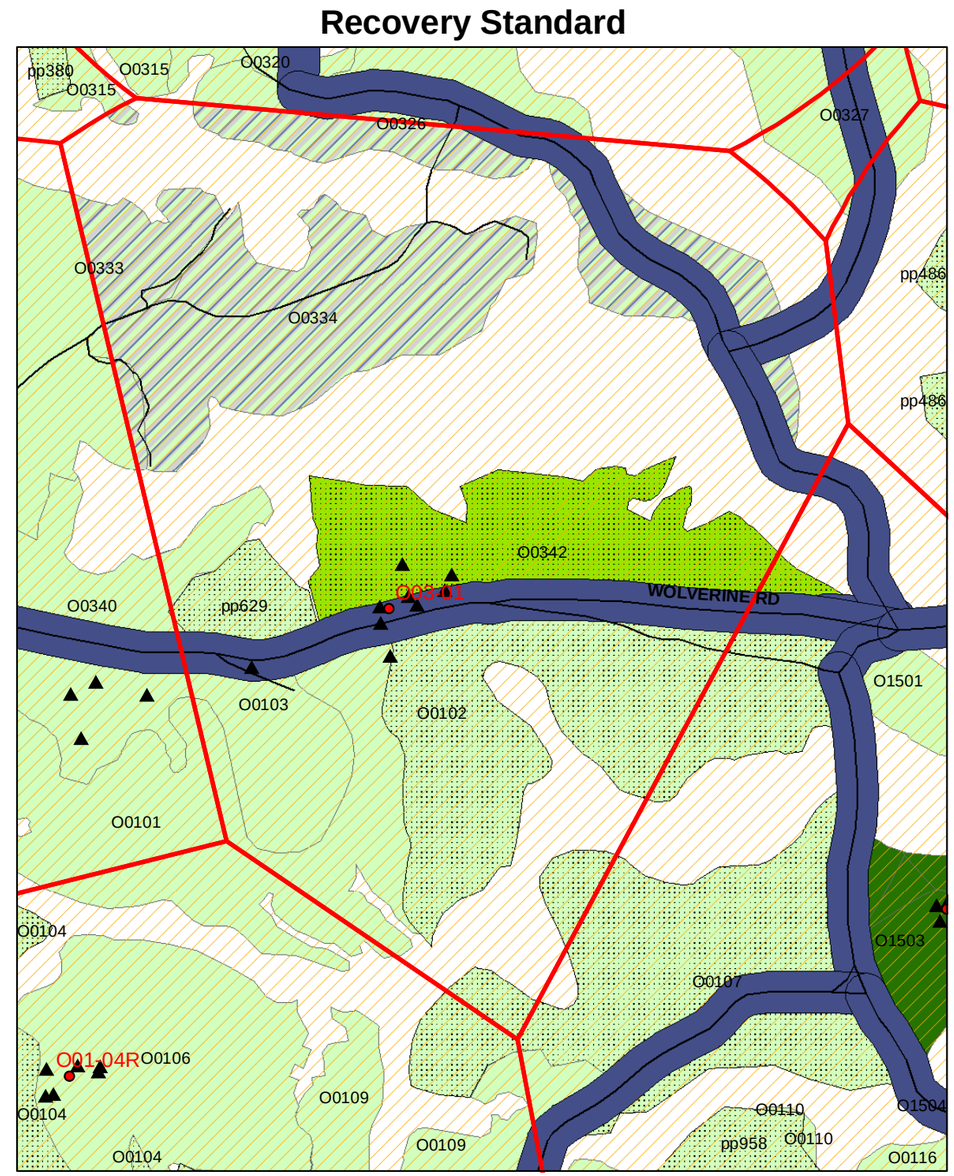
Appendix Figure I-95. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O01-03** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.

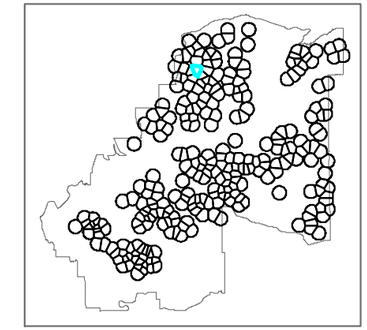


Appendix Figure I-96. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O01-04R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



Appendix Figure I-97. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O02-01R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.





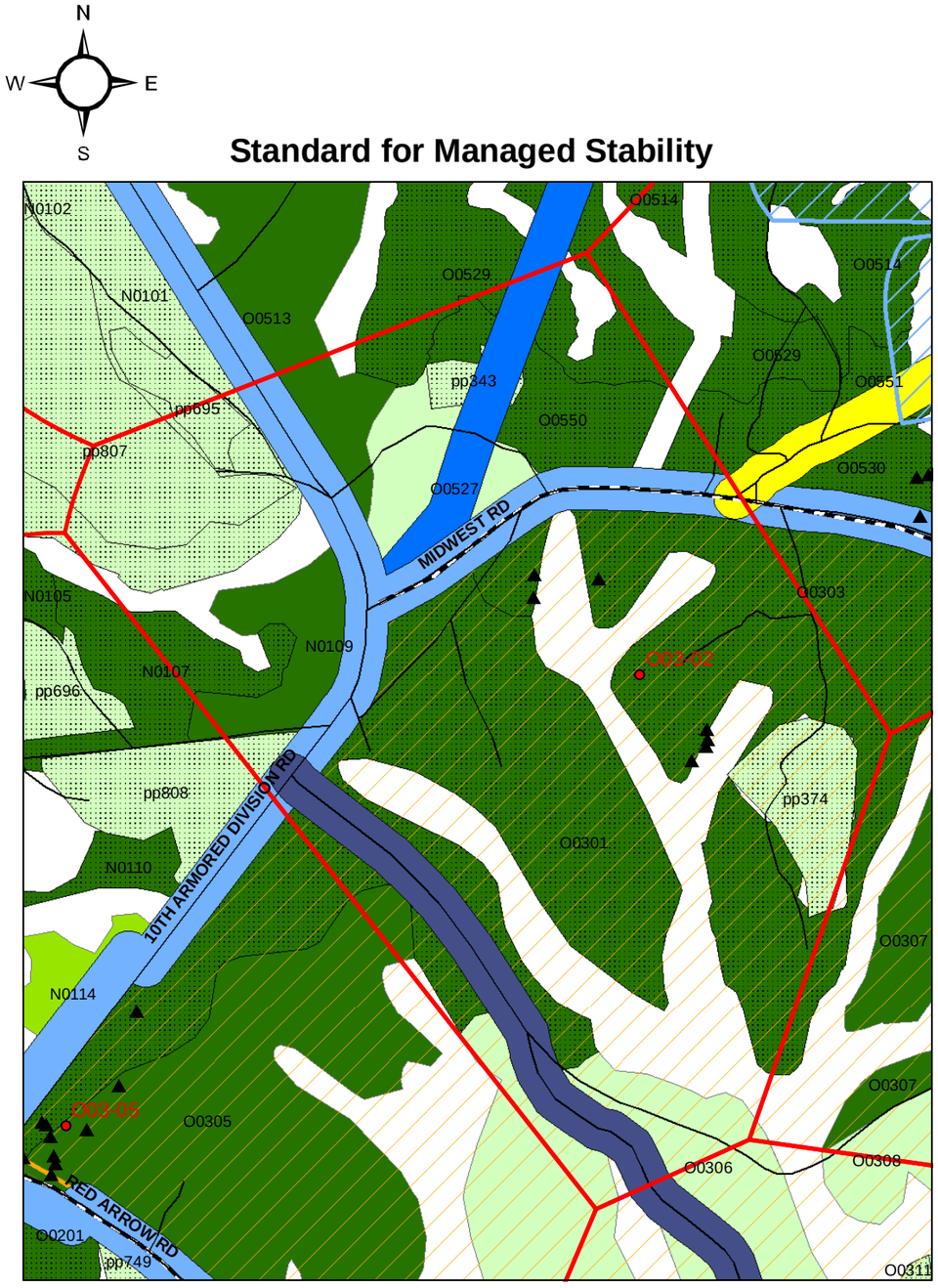
Cluster Location

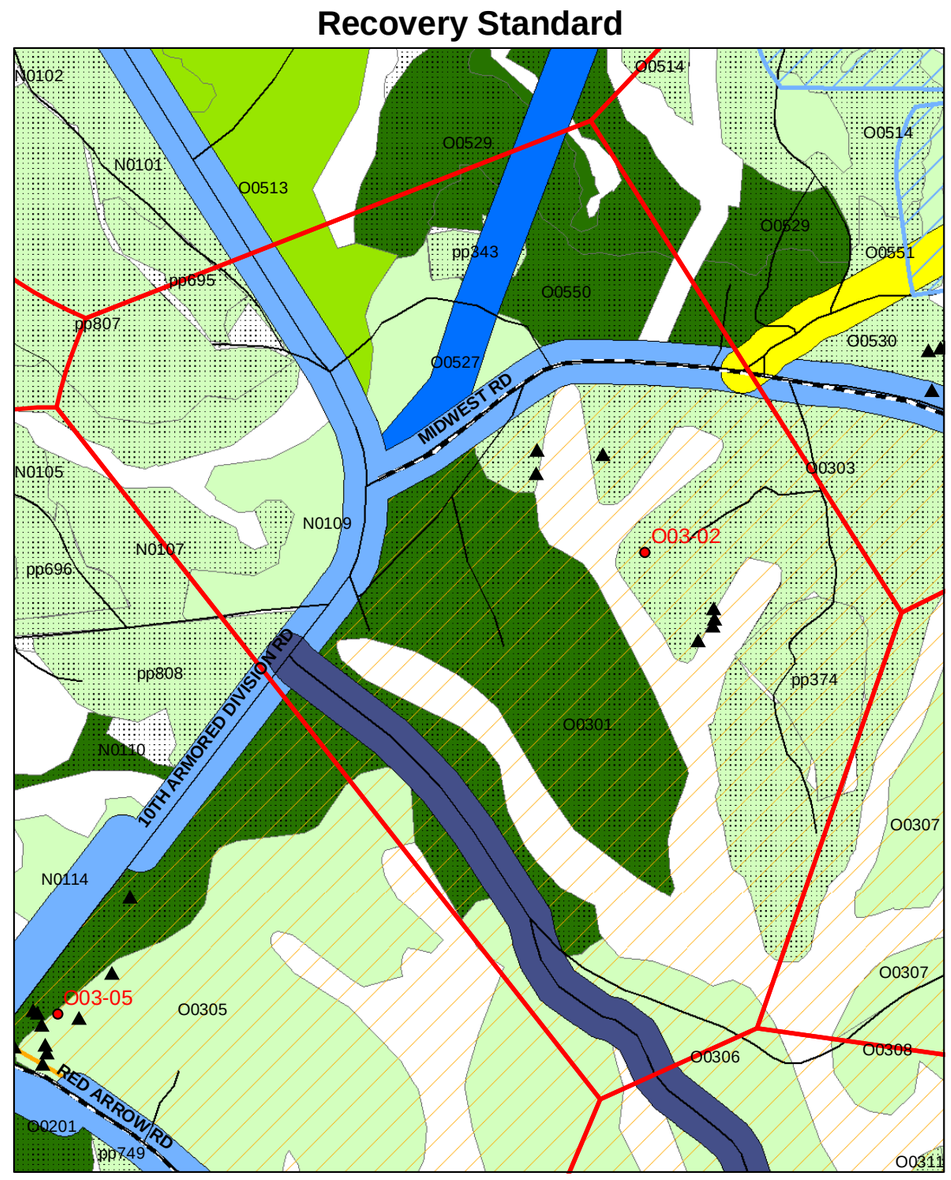
Northern Training Area Projects

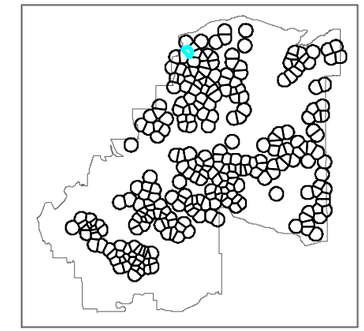
- Heavy Maneuver (within 25 feet of roads) (PN 69742) (FY 2009)
- Infrastructure-Upgrade Tank Trails (PN 69742) (FY 2009)
- Suitable RCW foraging habitat
- Potentially suitable RCW habitat
- Future potential RCW habitat
- Longleaf pine stand
- Non-contiguous habitat
- Non habitat
- A1709 Stand number
- RCW cluster center
- RCW cavity tree
- 0.5 mile radius RCW foraging partition
- Existing Fort Benning roads

1,250 625 0 1,250 Feet

Appendix Figure I-98. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O03-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.







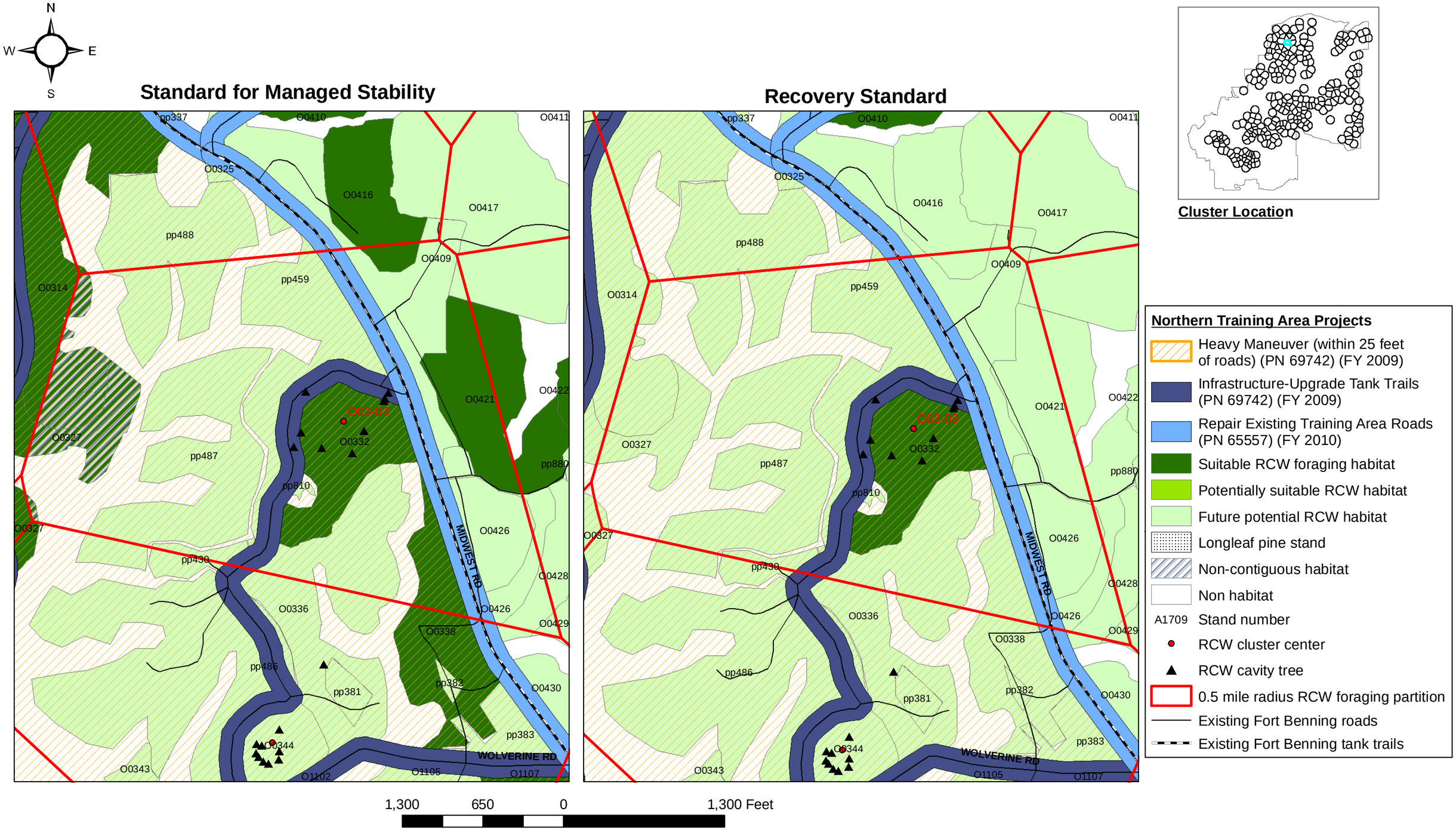
Cluster Location

Northern Training Area Projects

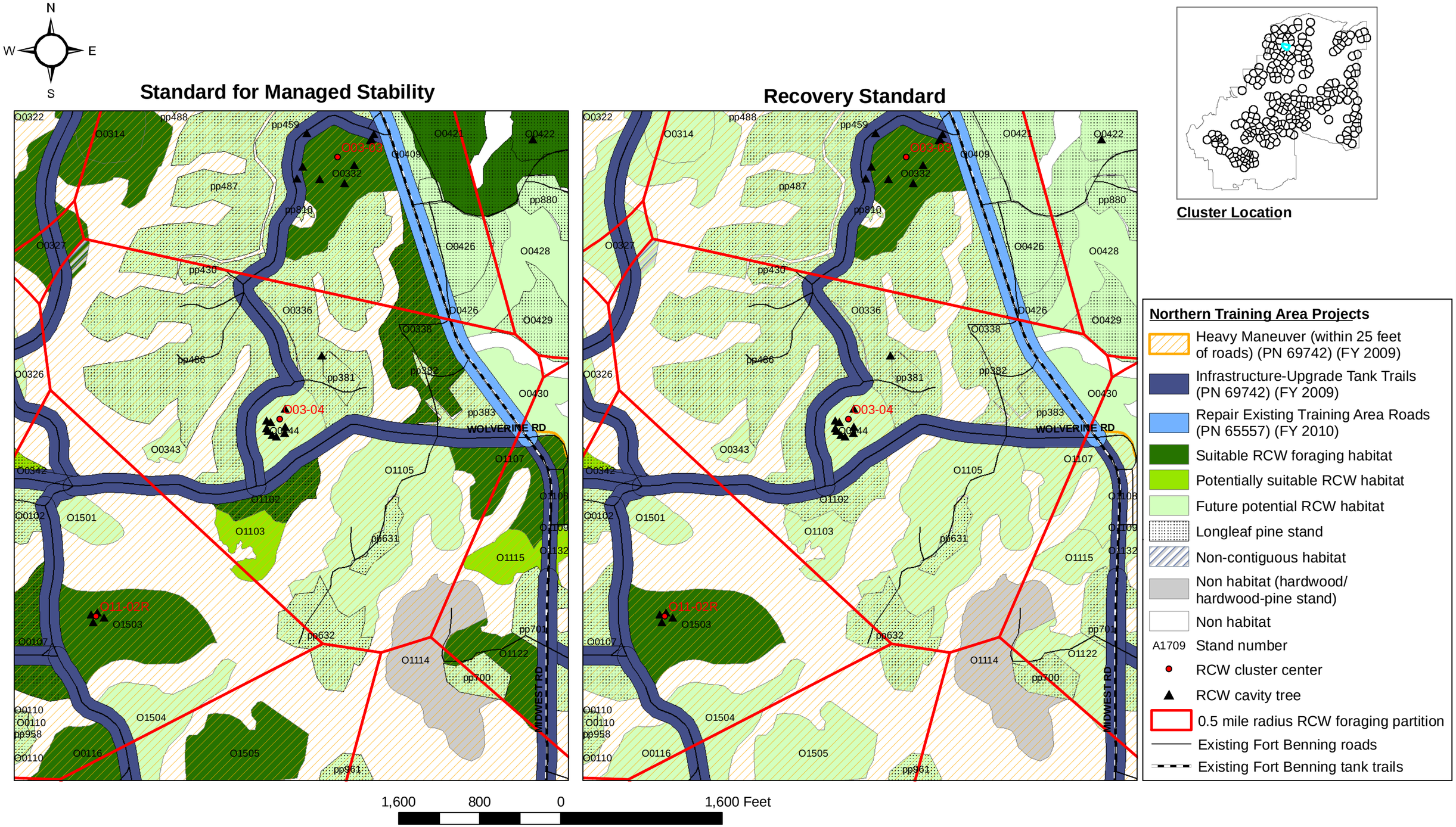
- Heavy Maneuver (within 25 feet of roads) (PN 69742) (FY 2009)
- Infrastructure-Upgrade Tank Trails (PN 69742) (FY 2009)
- Access Road for Basic 10M-25M Firing Range (PN 65036) (FY 2009)
- Construct Training Area Roads (PN 65554) (FY 2009)
- Repair Existing Training Area Roads (PN 65557) (FY 2010)
- Suitable RCW foraging habitat
- Potentially suitable RCW habitat
- Future potential RCW habitat
- Longleaf pine stand
- Non habitat
- A1709 Stand number
- RCW cluster center
- RCW cavity tree
- 0.5 mile radius RCW foraging partition
- Existing Fort Benning roads
- Existing Fort Benning tank trails

1,200 600 0 1,200 Feet

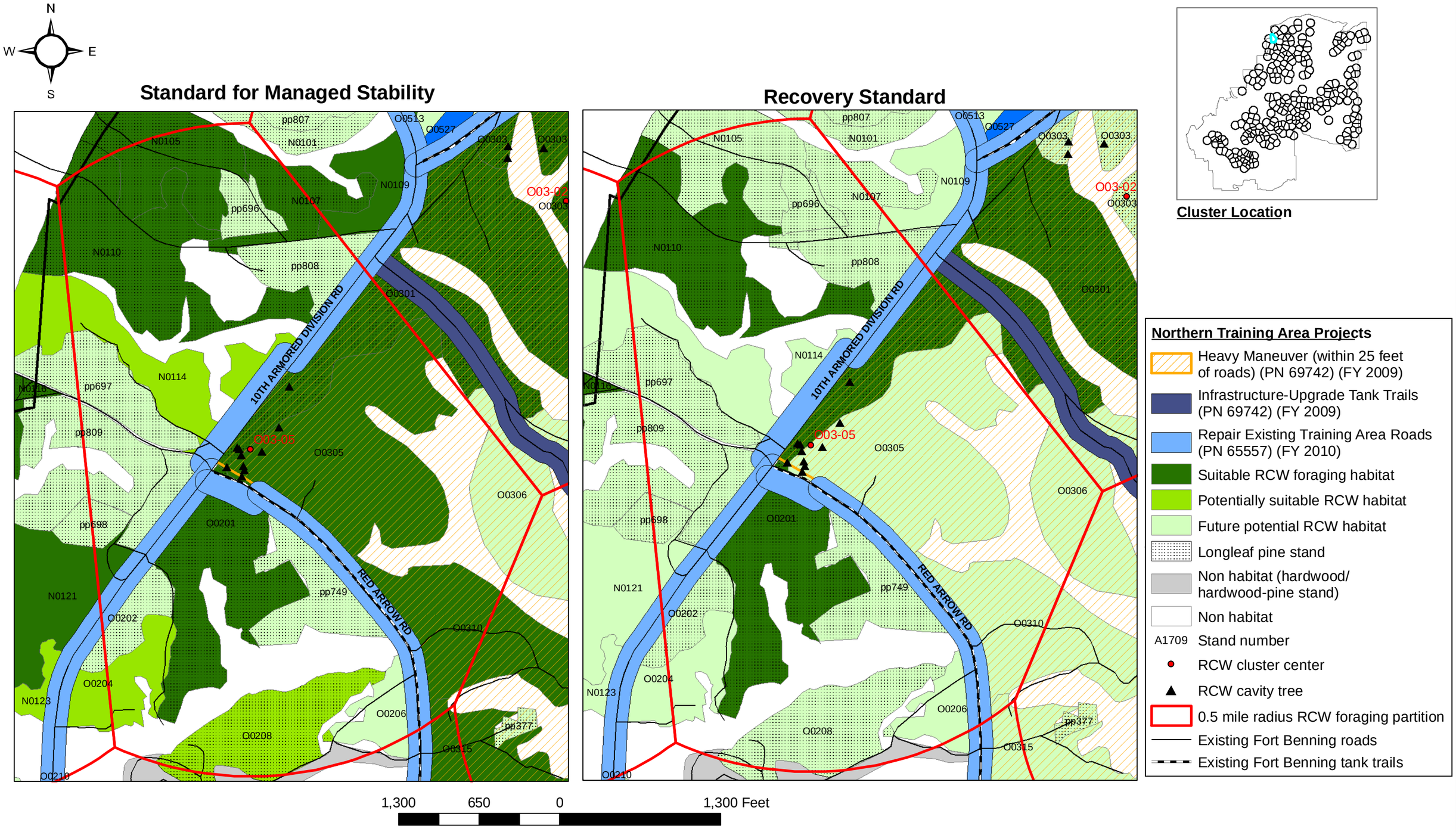
Appendix Figure I-99. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O03-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



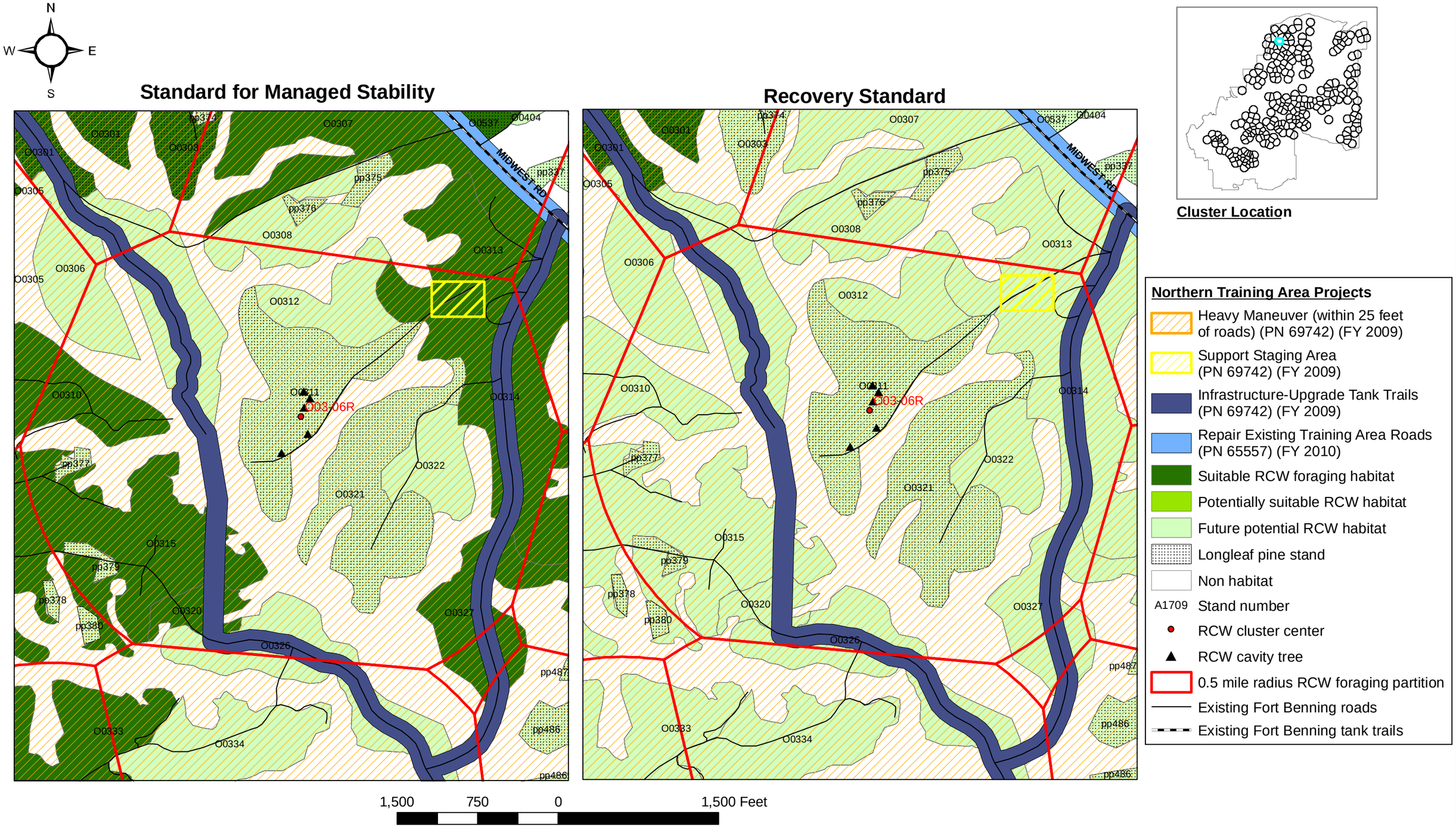
Appendix Figure I-100. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O03-03** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



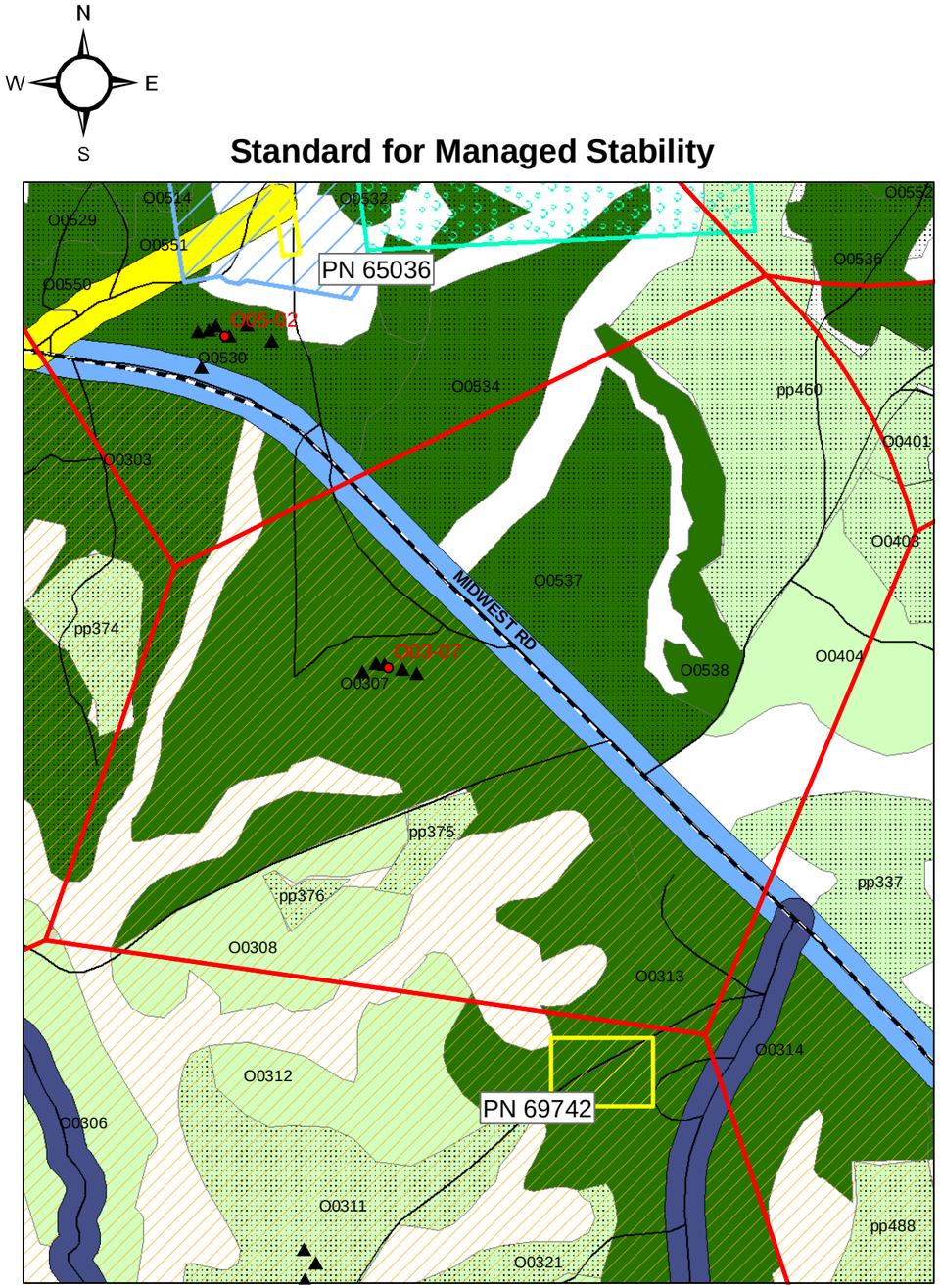
Appendix Figure I-101. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O03-04** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.

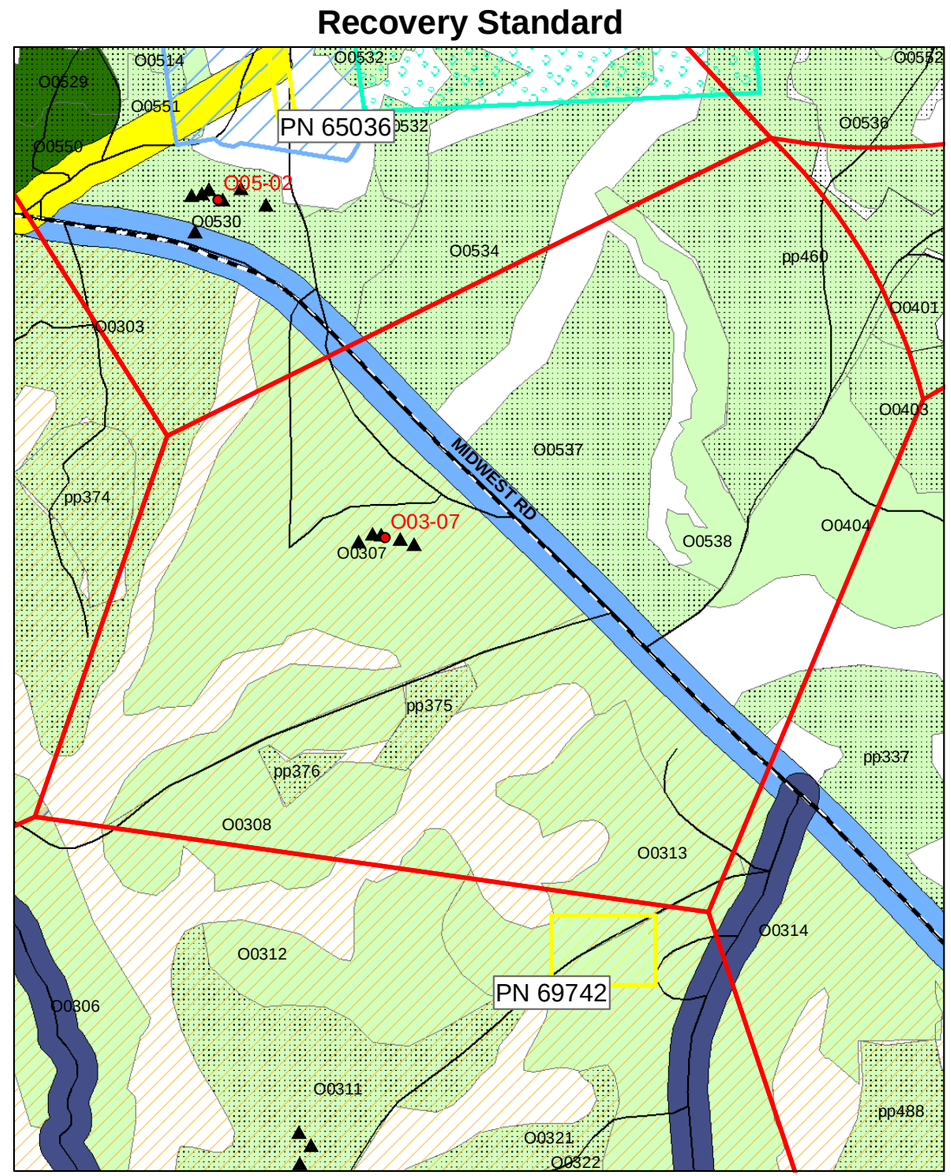


Appendix Figure I-102. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O03-05** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.

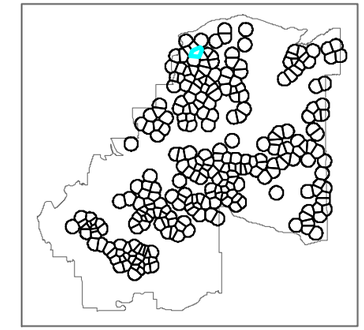


Appendix Figure I-103. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O03-06R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.





1,300 650 0 1,300 Feet



Cluster Location

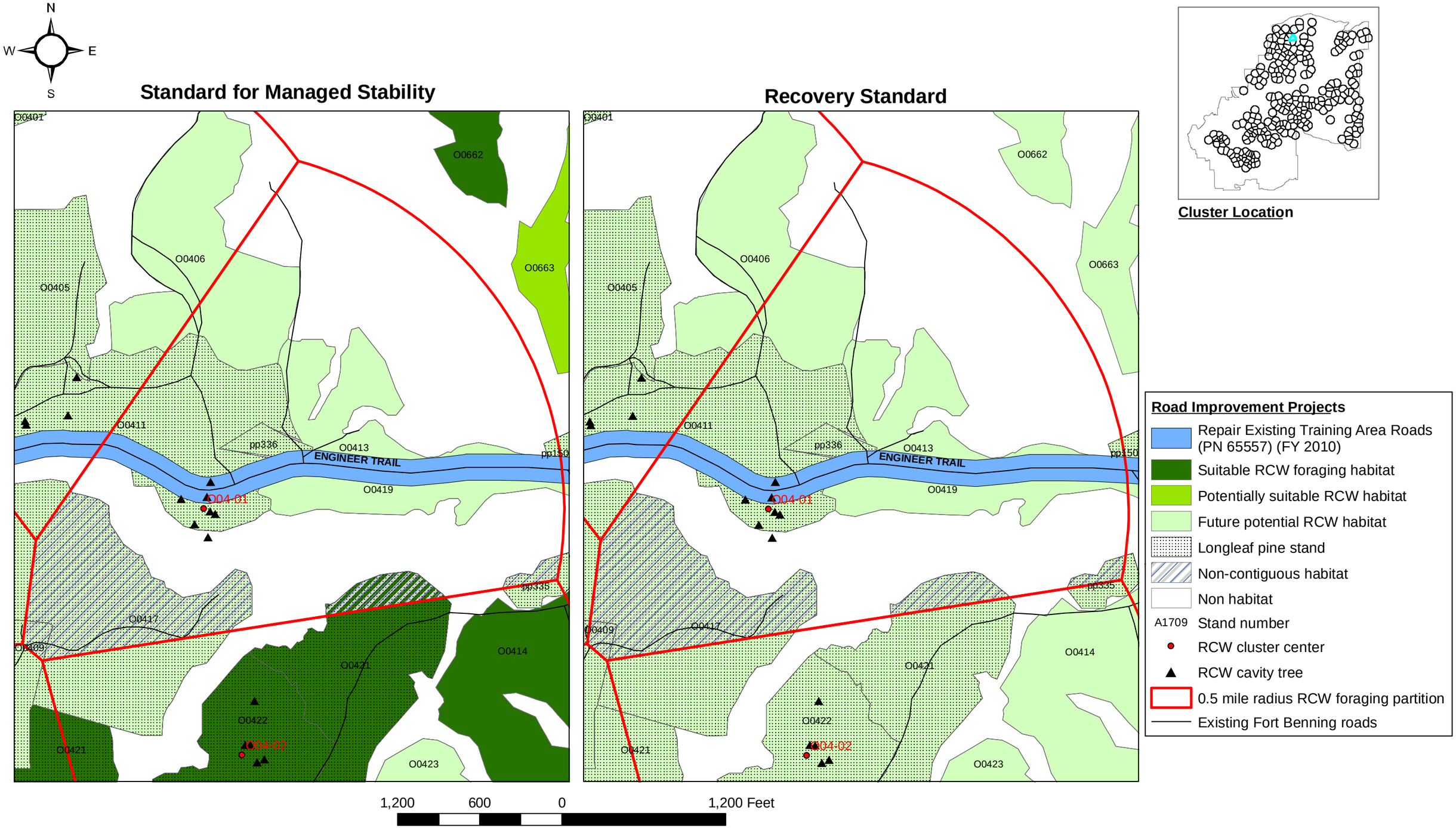
Northern Training Area Projects

PN 65036-Basic 10M-25M Firing Range

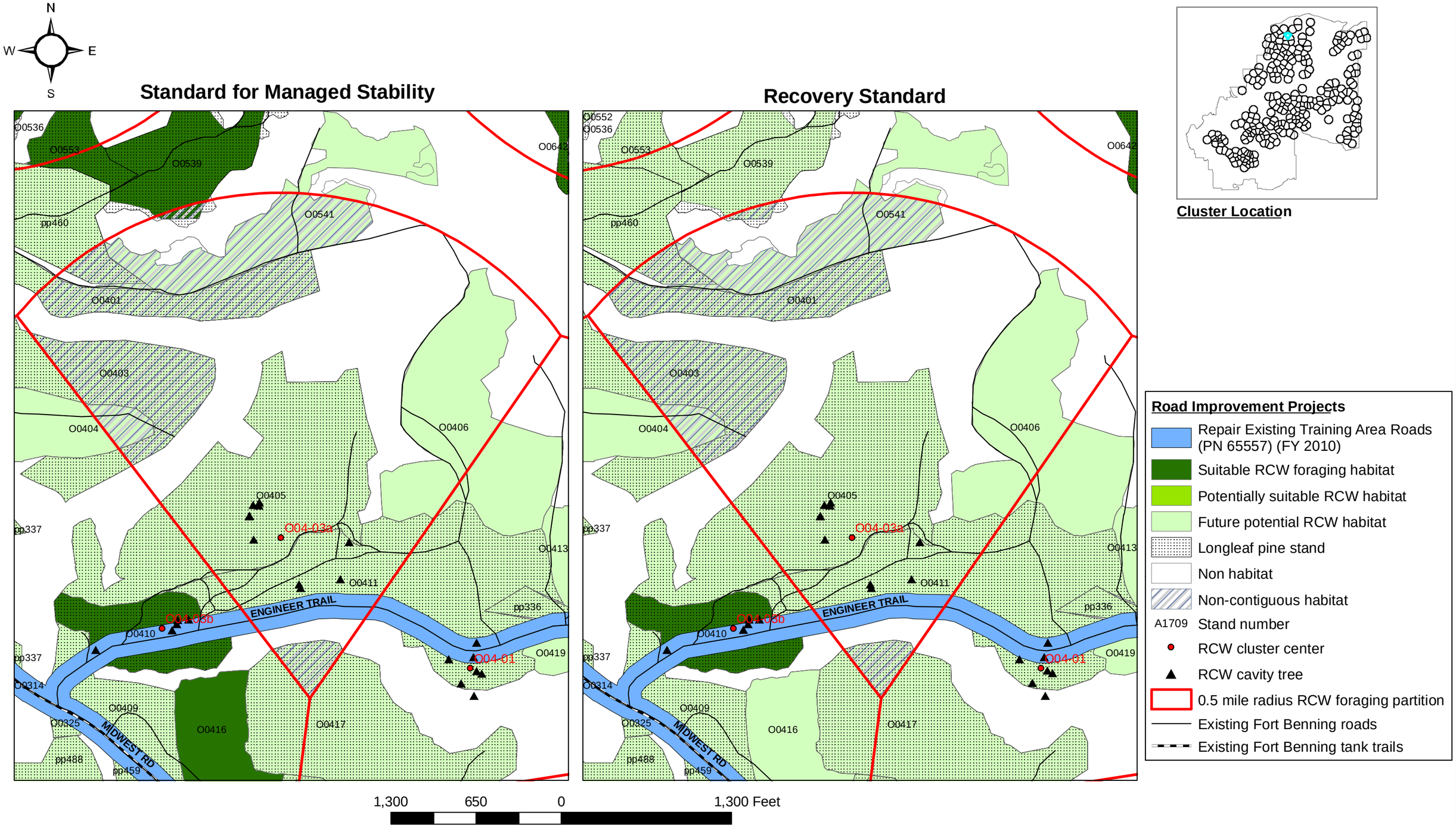
PN 69742-Support Staging Area

- Heavy Maneuver (within 25 feet of roads) (PN 69742) (FY 2009)
- Range Boundary (FY 2009)
- Construction Limits for Range Complex (FY 2009)
- Beaten Area (FY 2009)
- Range Access Road (FY 2009)
- Infrastructure-Upgrade Tank Trails (PN 69742) (FY 2009)
- Repair Existing Training Area Roads (PN 65557) (FY 2010)
- Suitable RCW foraging habitat
- Potentially suitable RCW habitat
- Future potential RCW habitat
- Longleaf pine stand
- Non habitat
- Non-contiguous habitat
- A1709 Stand number
- RCW cluster center
- RCW cavity tree
- 0.5 mile radius RCW foraging partition
- Existing Fort Benning roads
- Existing Fort Benning tank trails

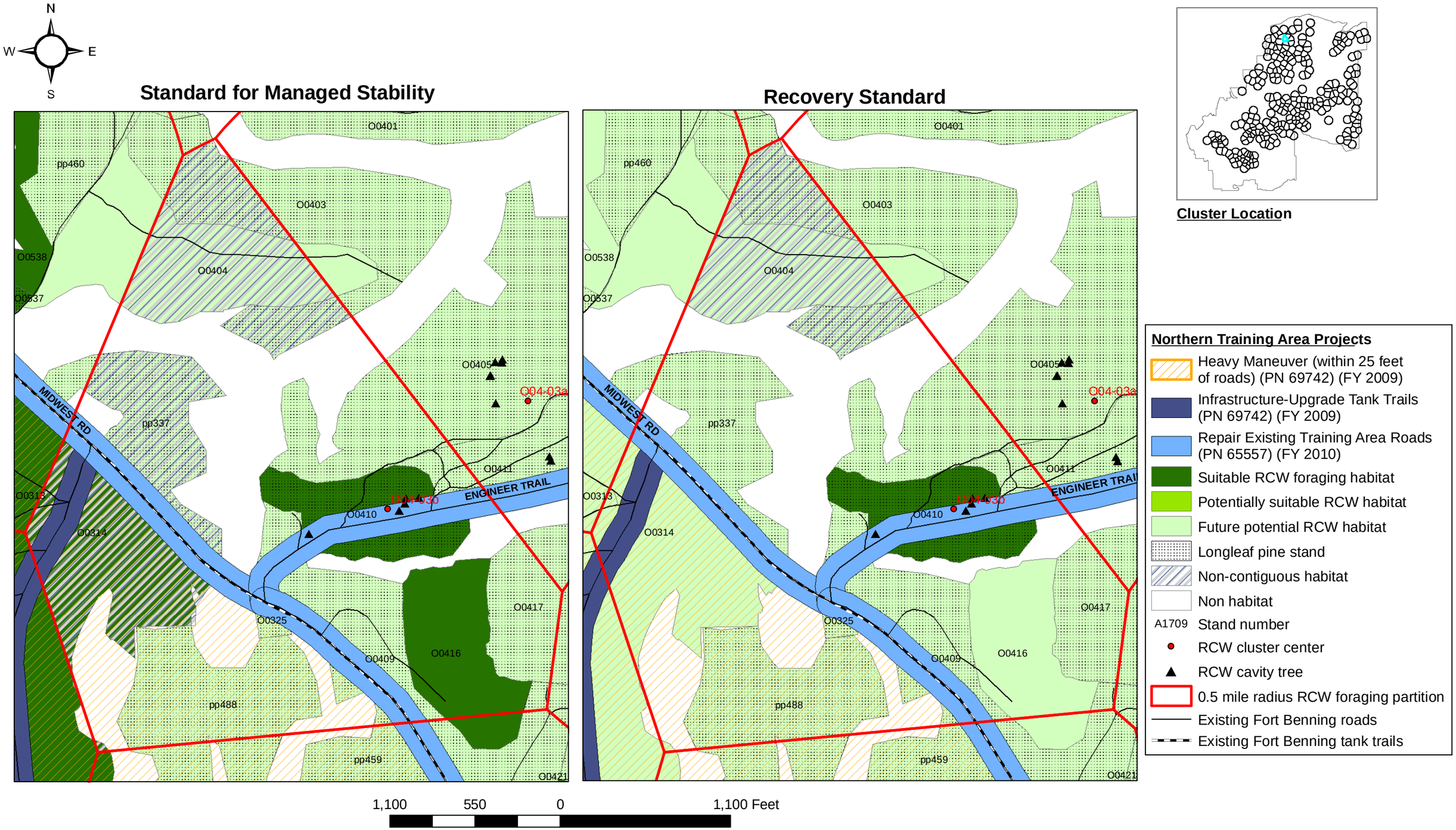
Appendix Figure I-104. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O03-07** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



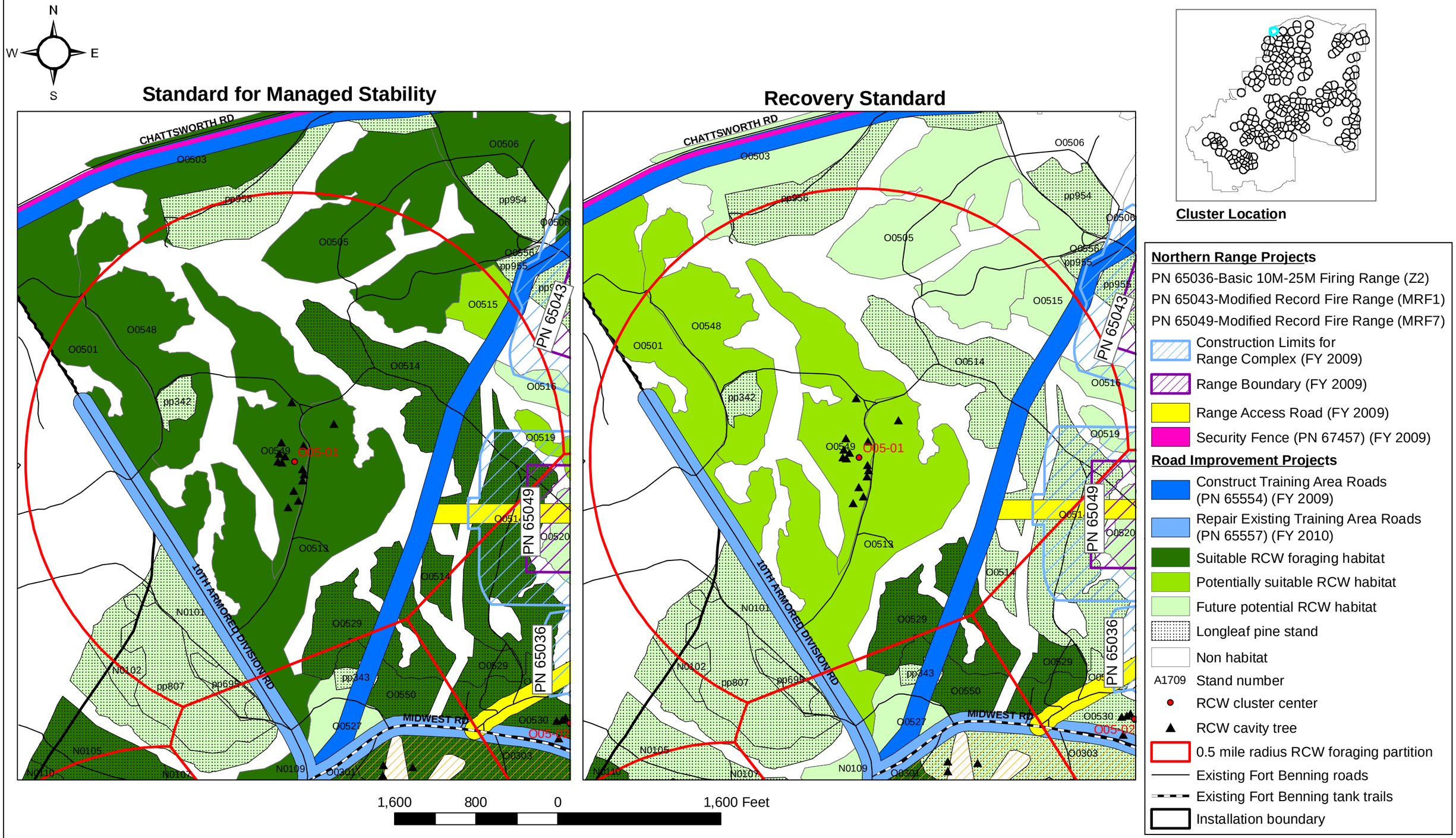
Appendix Figure I-105. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O04-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



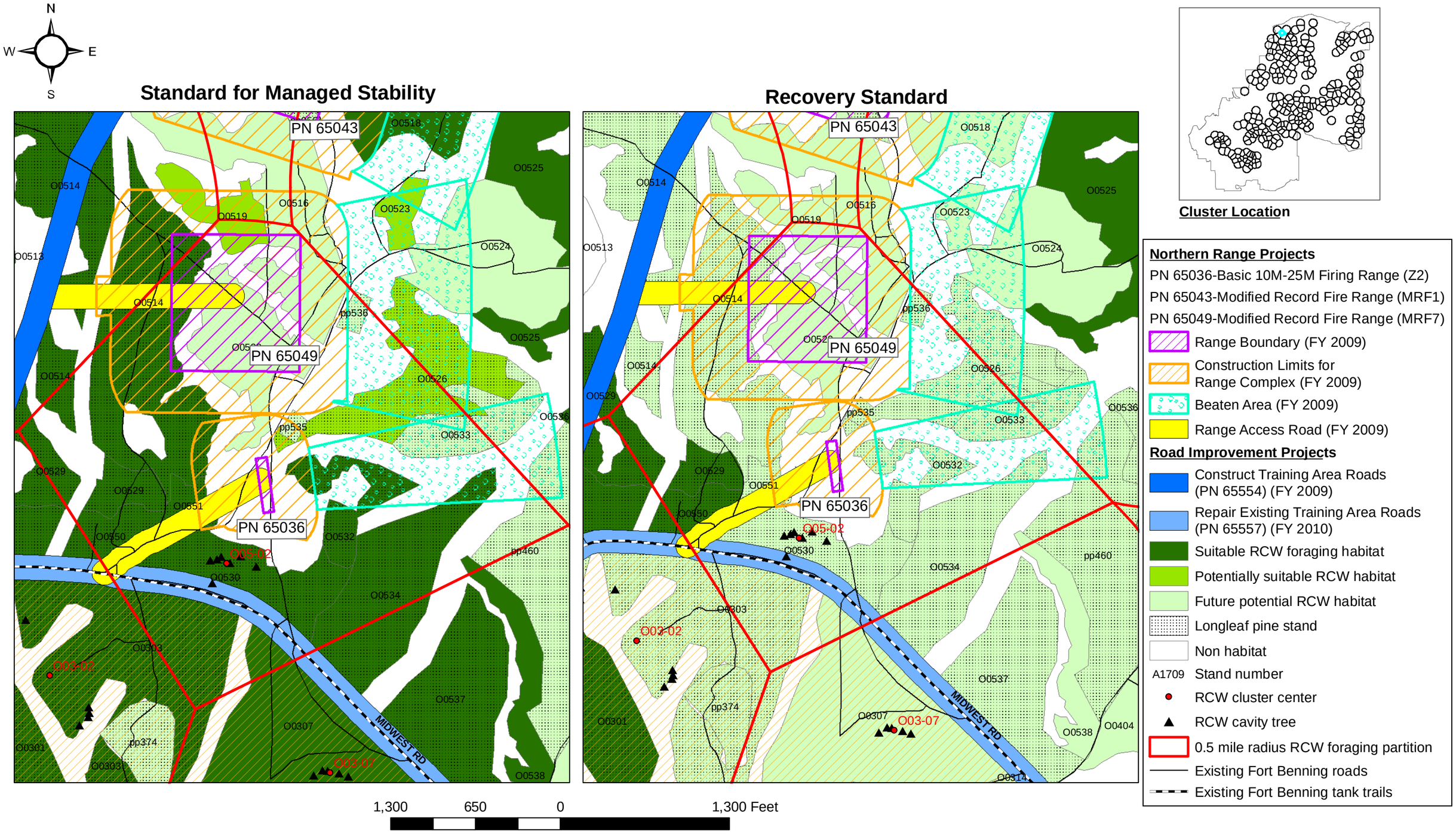
Appendix Figure I-106. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O04-03a** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



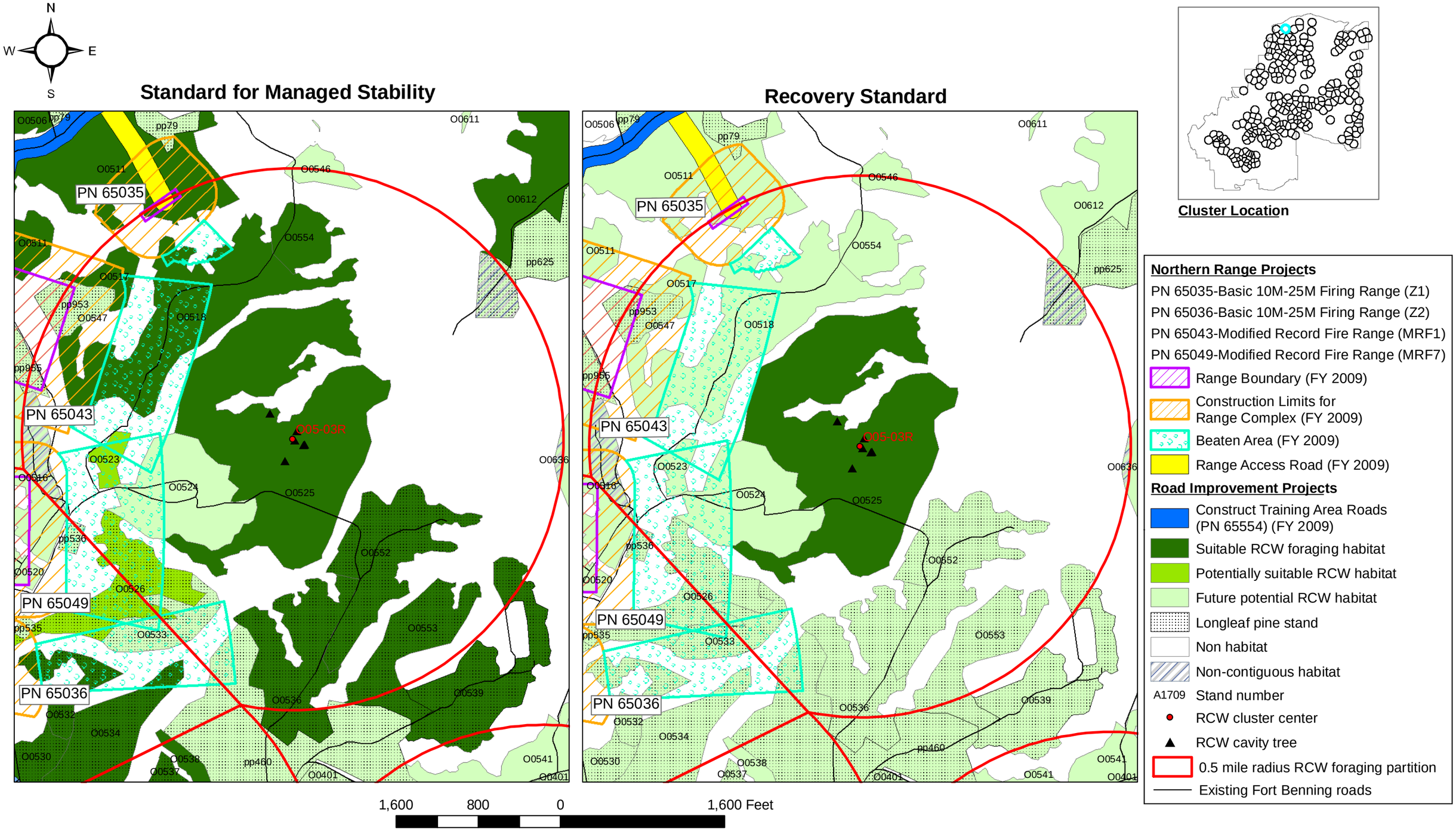
Appendix Figure I-107. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O04-03b** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



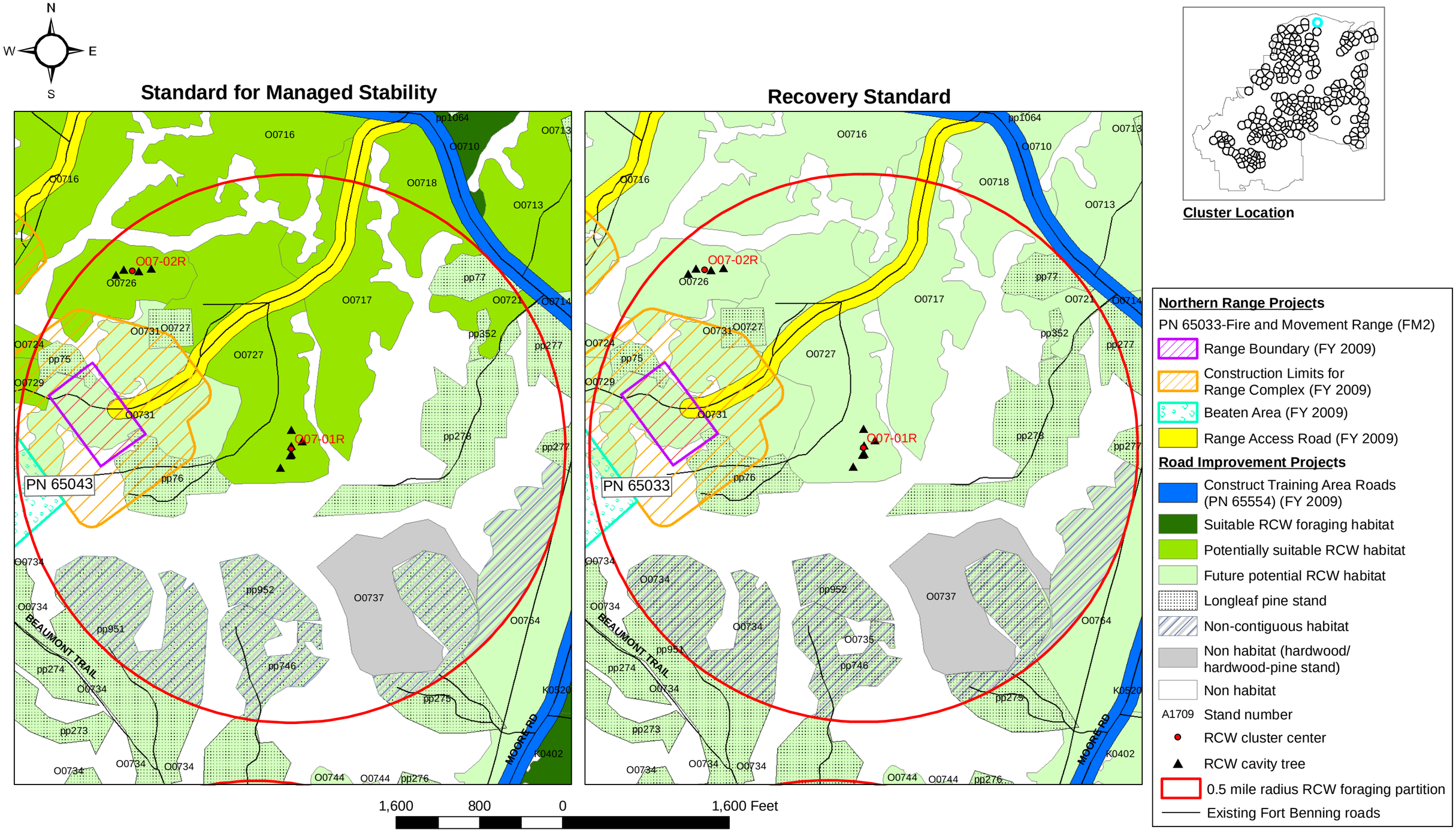
Appendix Figure I-108. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O05-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



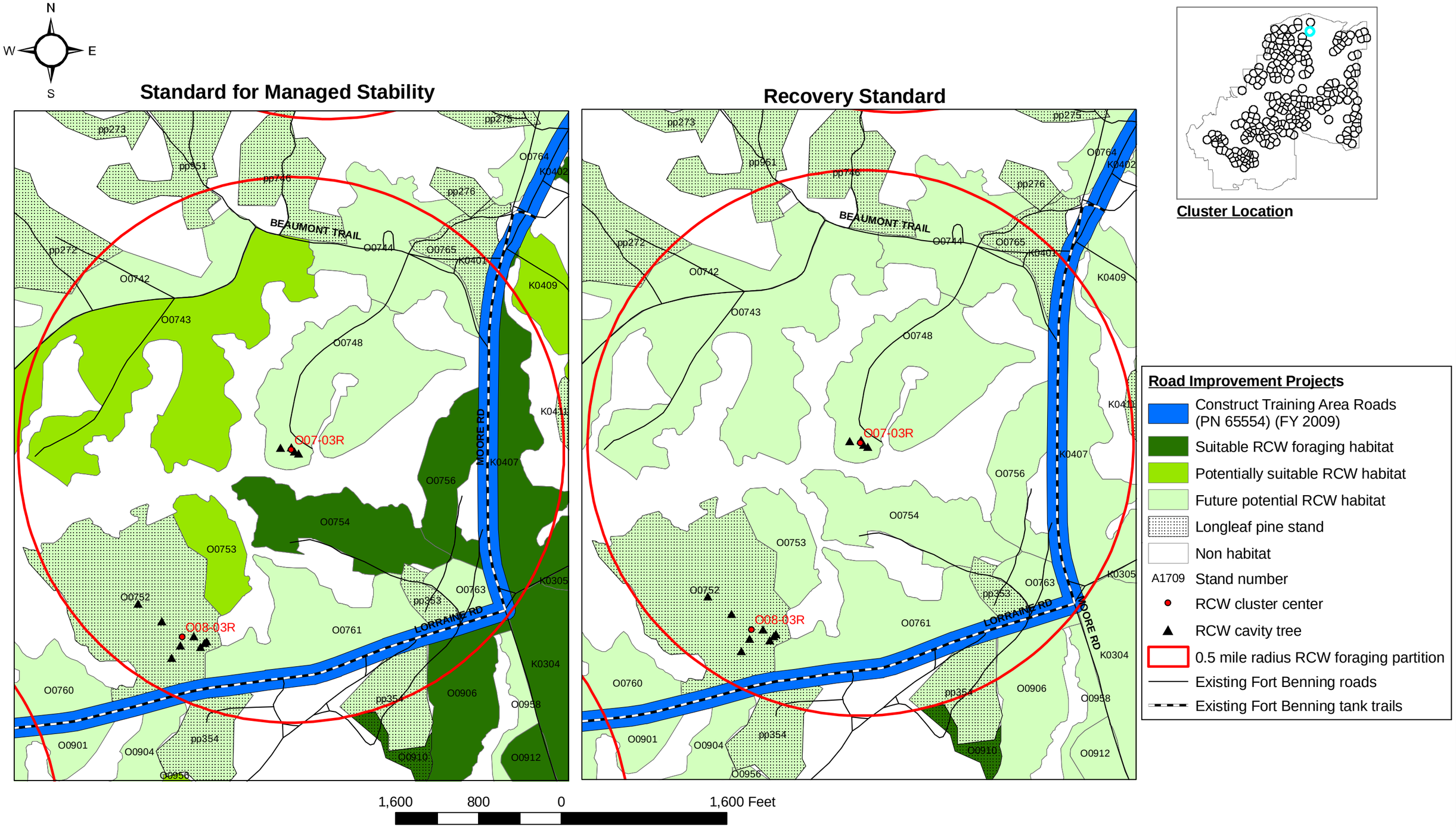
Appendix Figure I-109. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O05-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



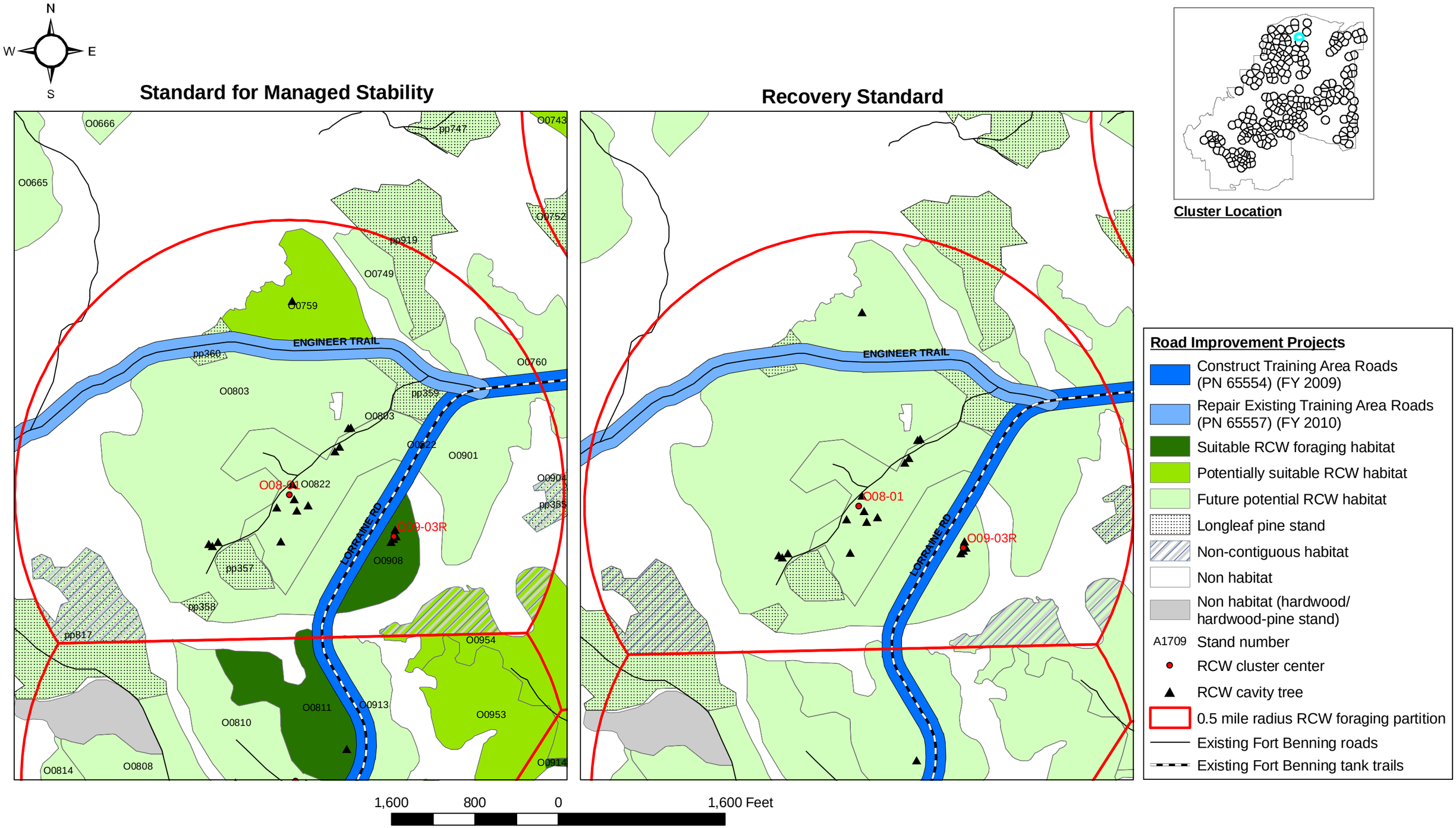
Appendix Figure I-110. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O05-03R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



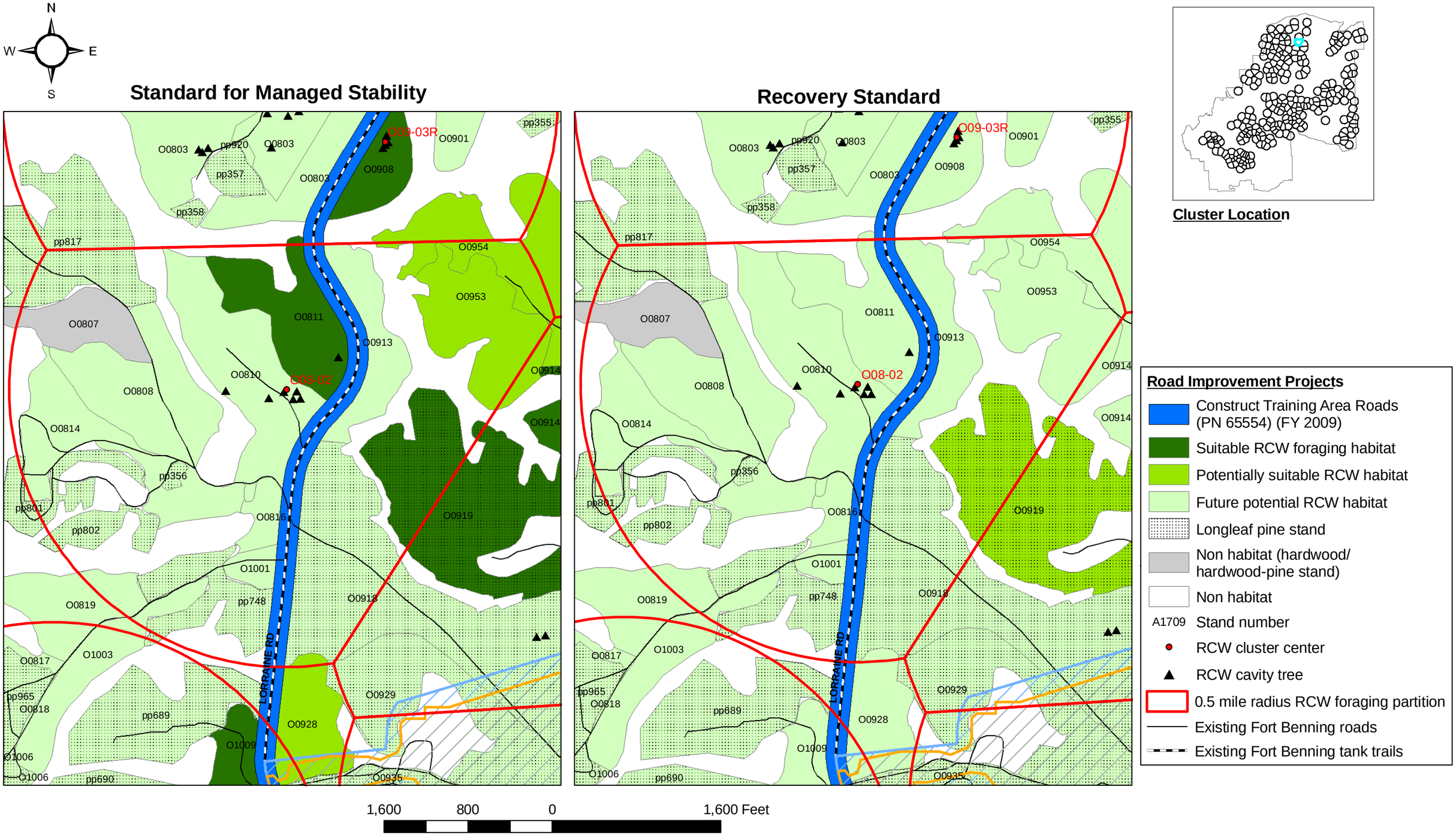
Appendix Figure I-111. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O07-01R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



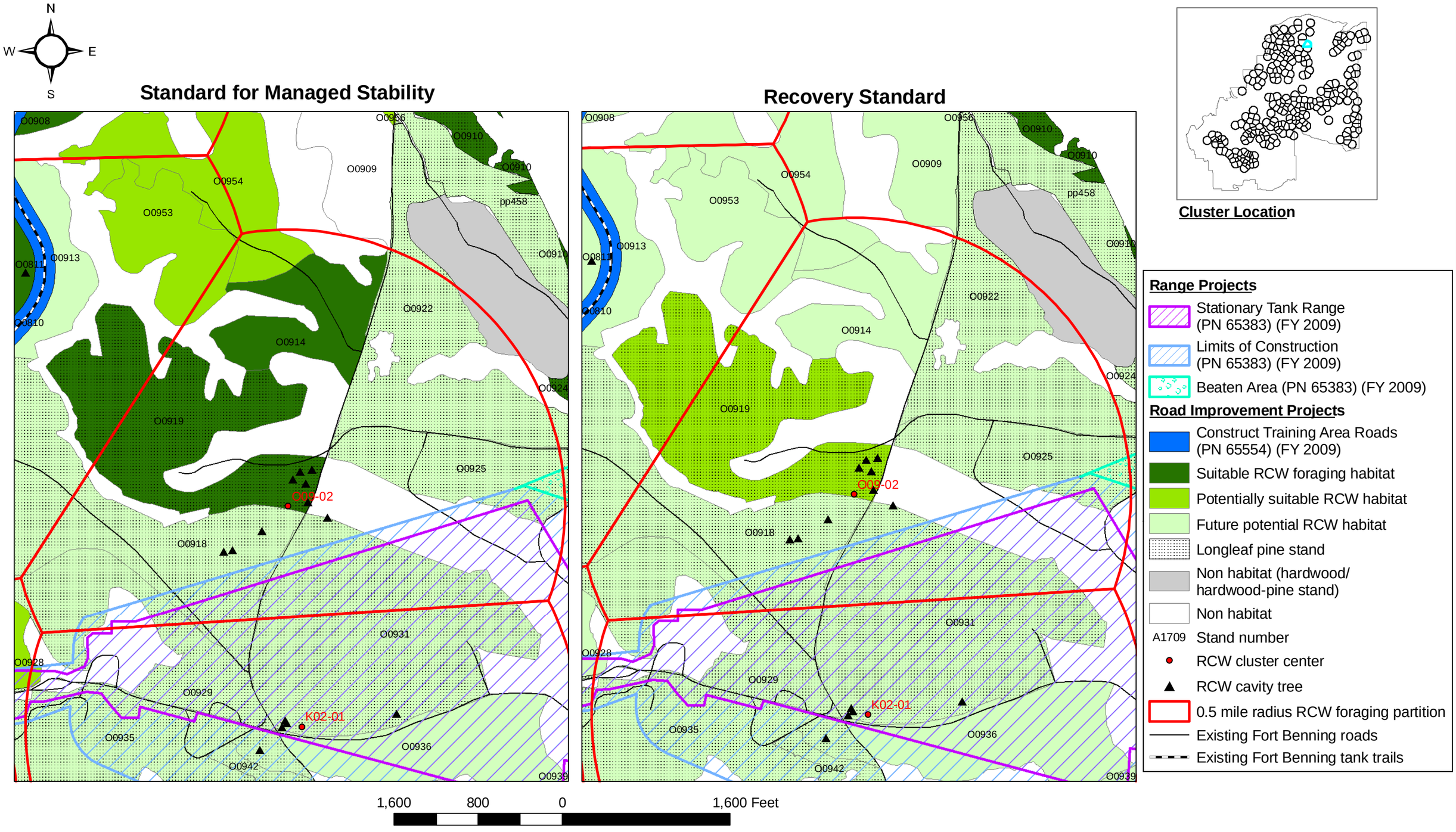
Appendix Figure I-112. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O07-03R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



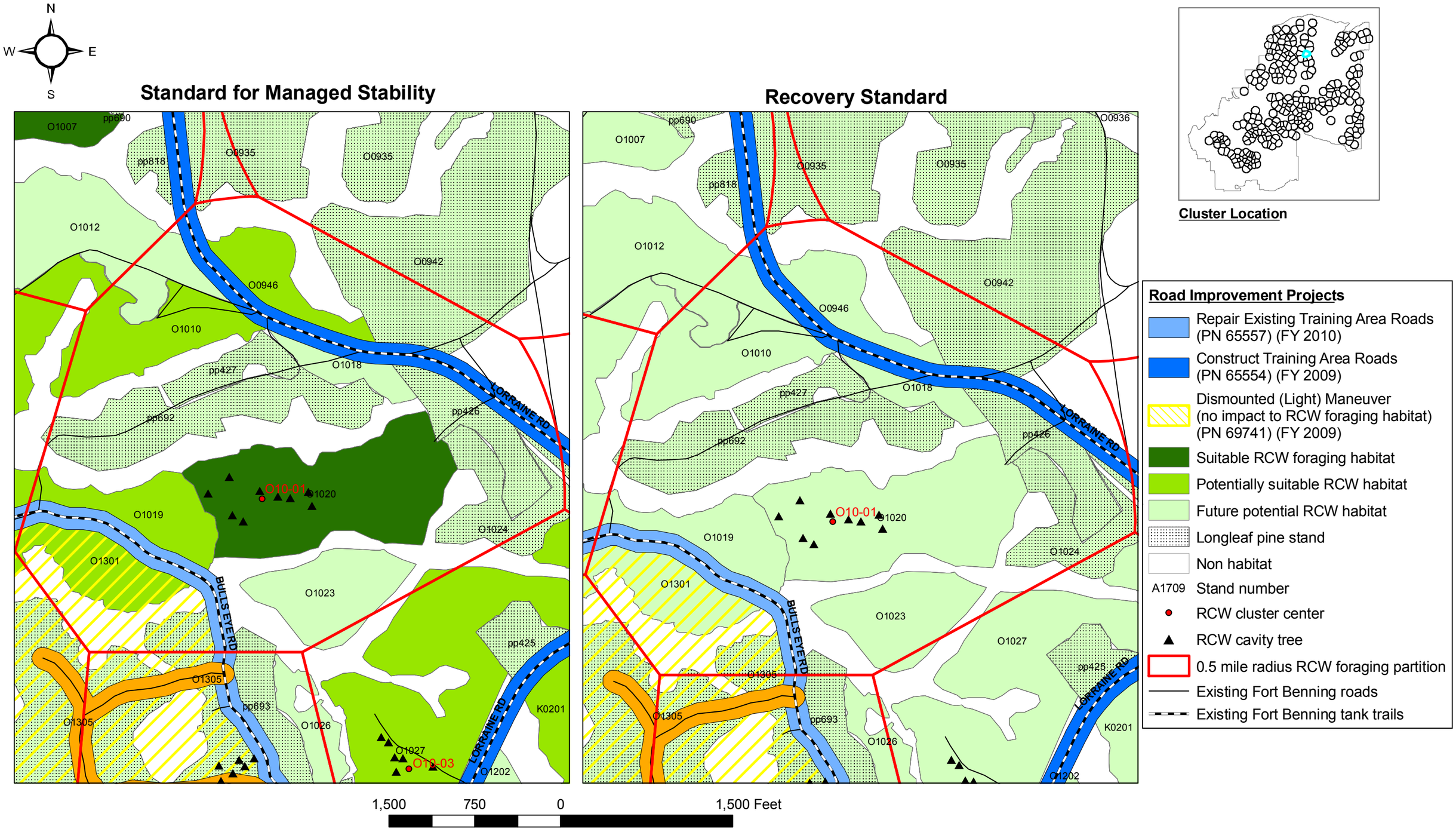
Appendix Figure I-113. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O08-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



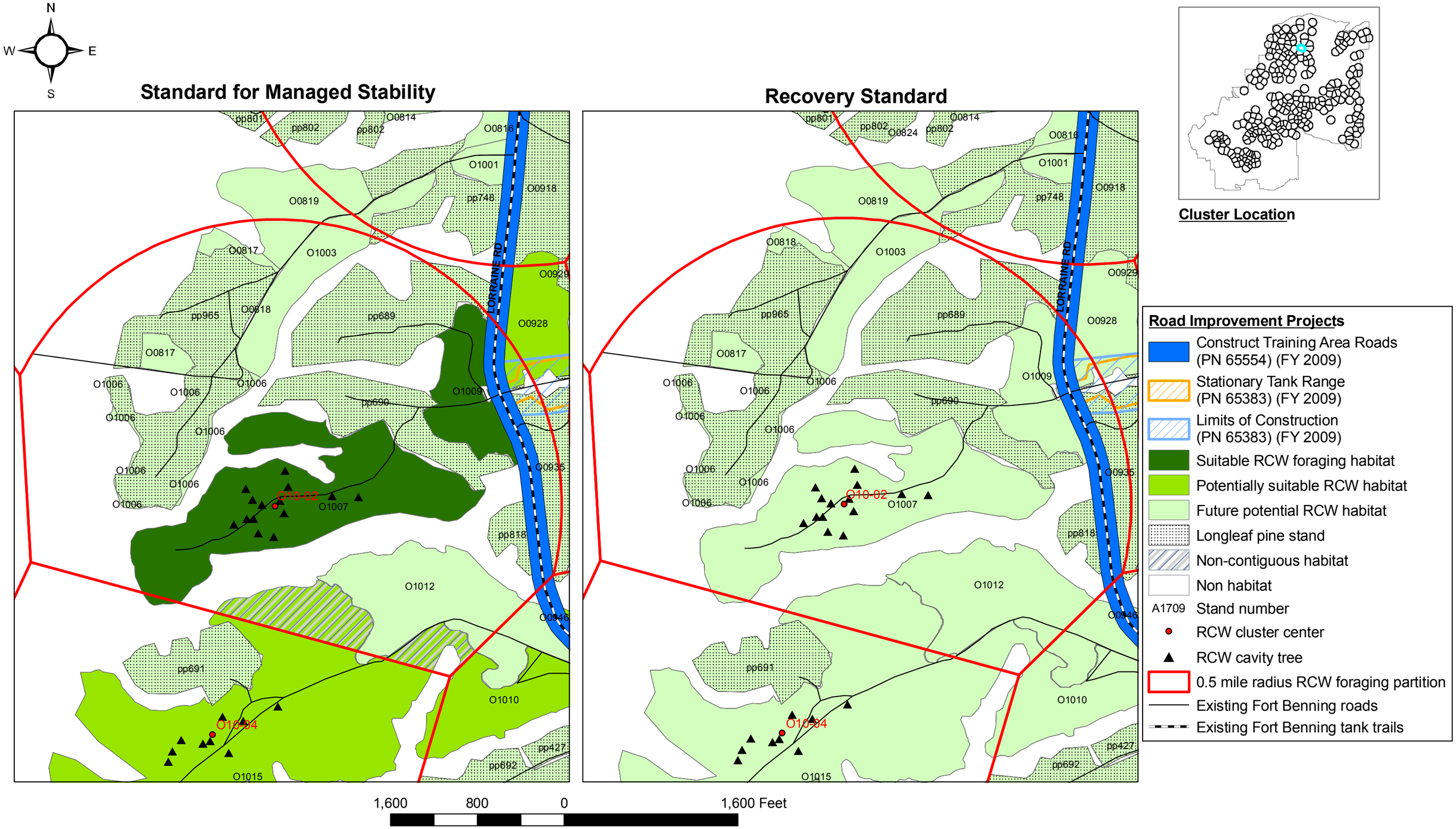
Appendix Figure I-114. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O08-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



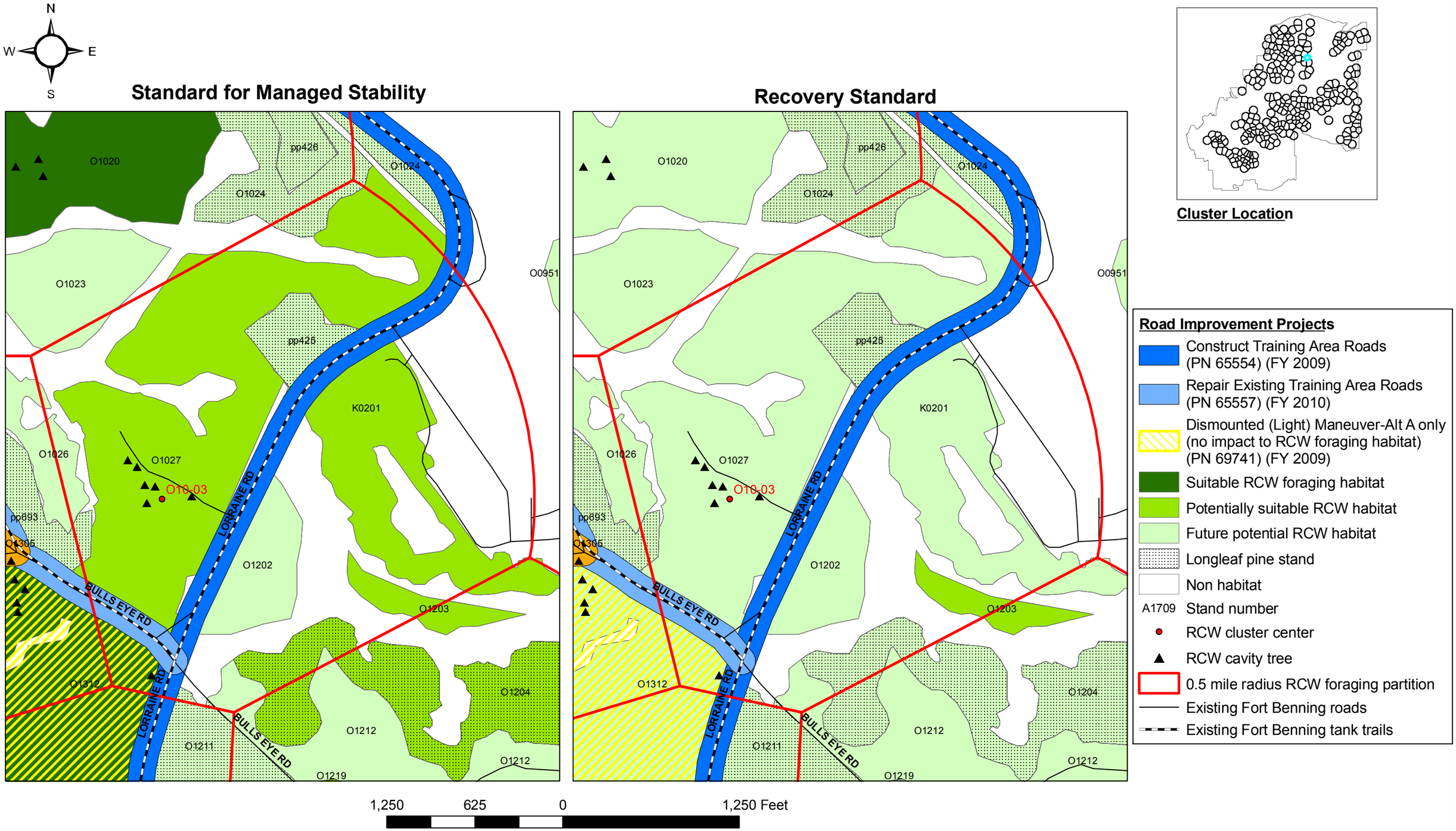
Appendix Figure I-115. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O09-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



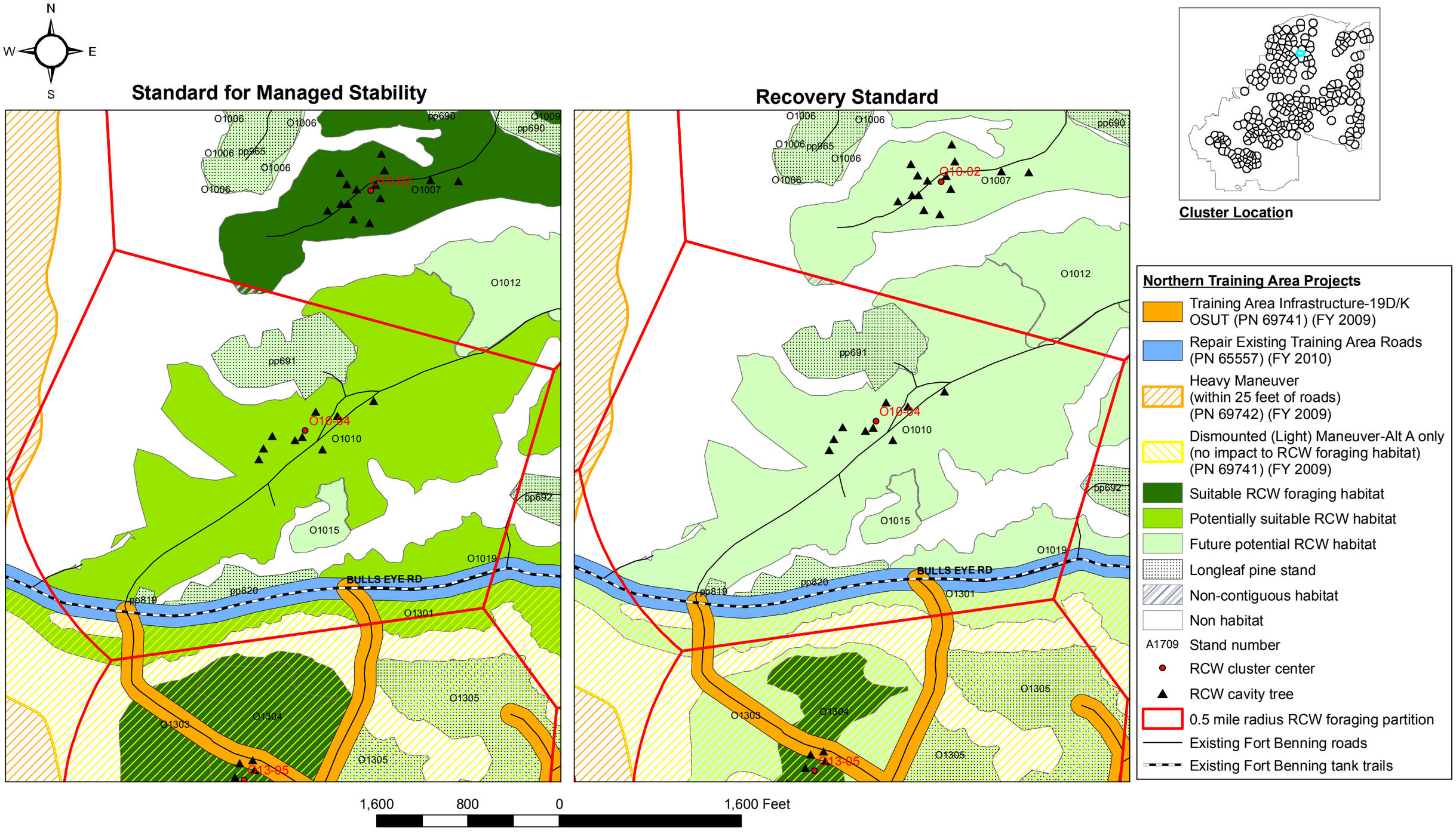
Appendix Figure I-116. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O10-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



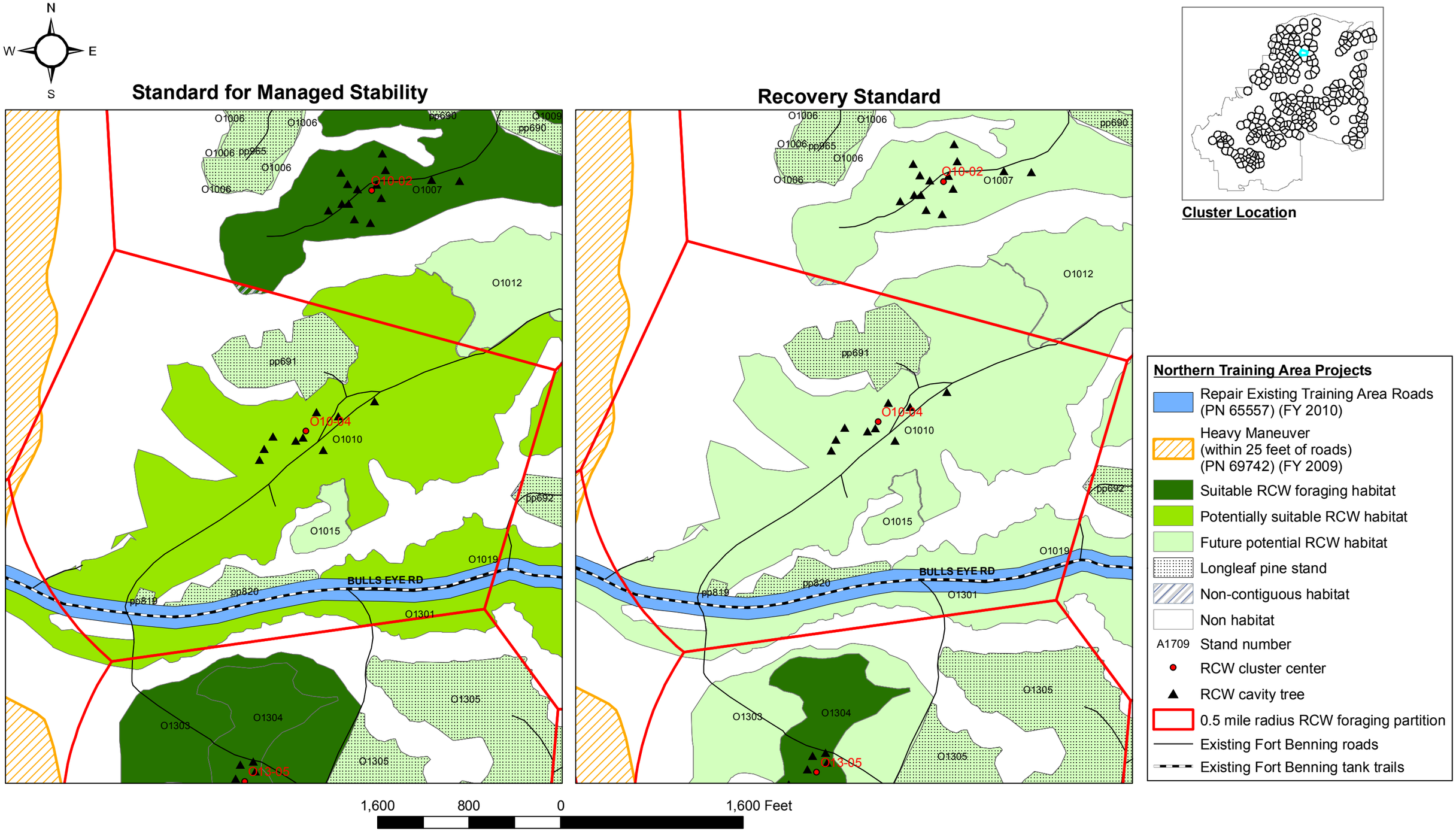
Appendix Figure I-117. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O10-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



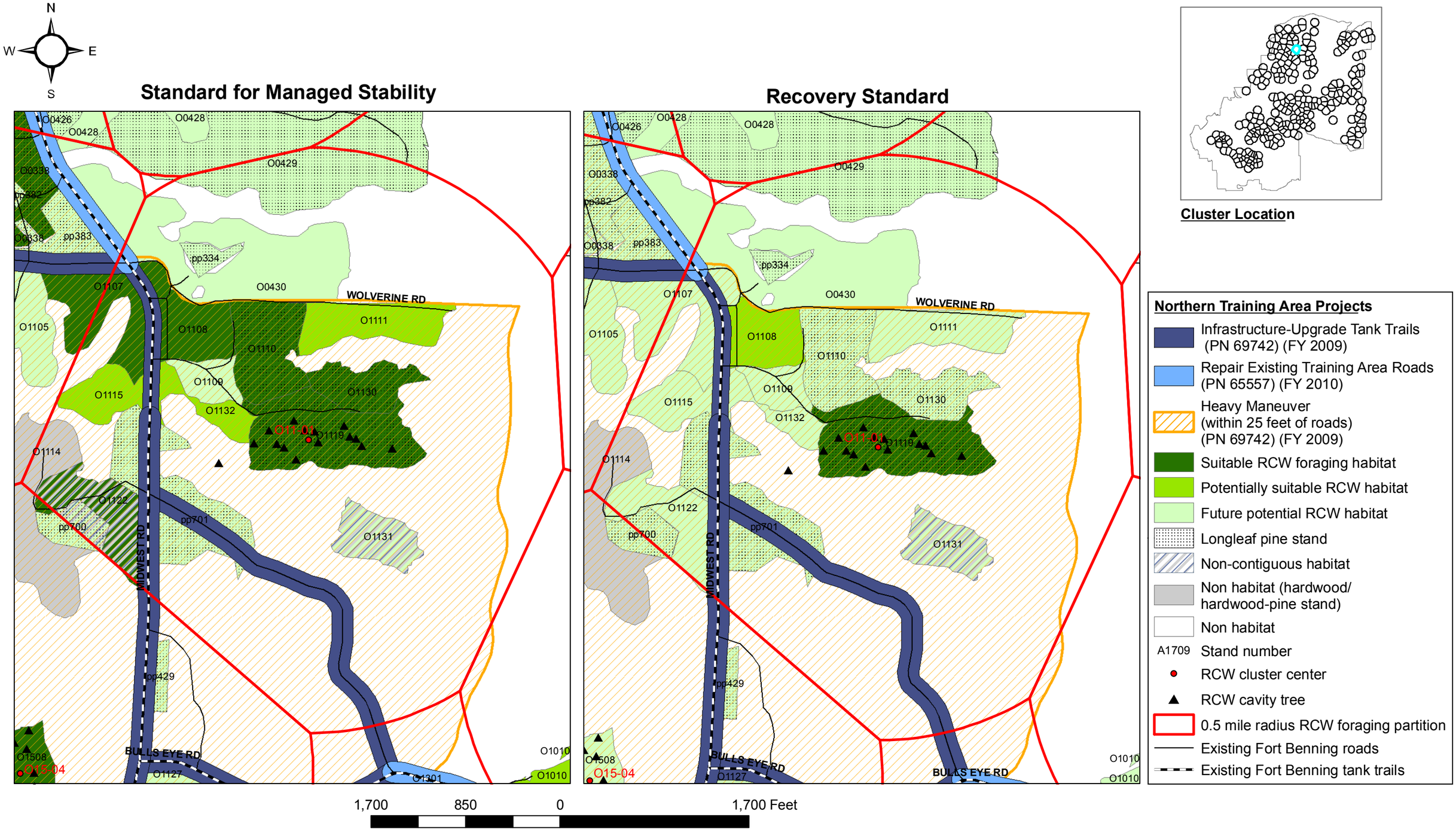
Appendix Figure I-118. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O10-03** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



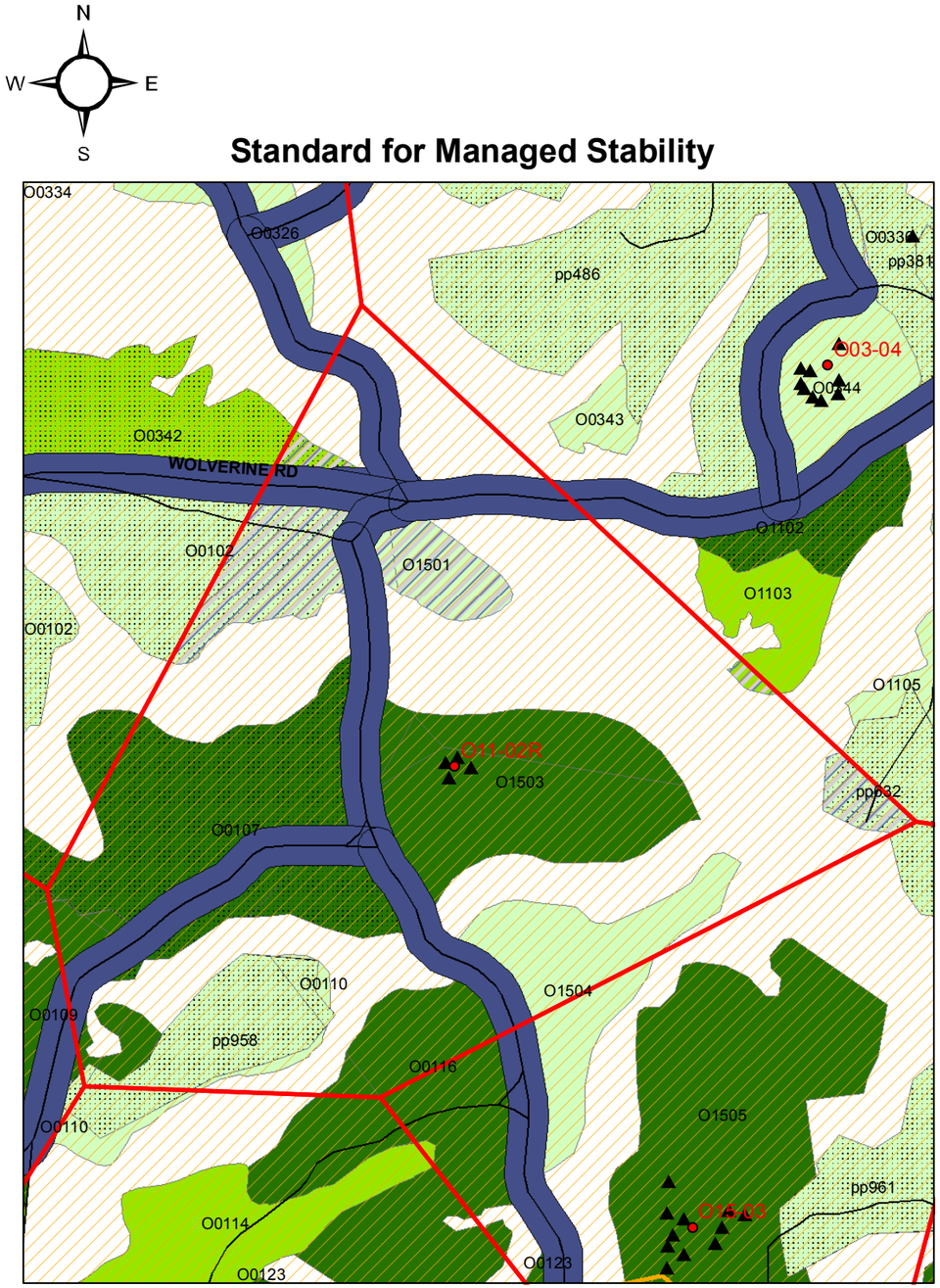
Appendix Figure I-119. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O10-04** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.

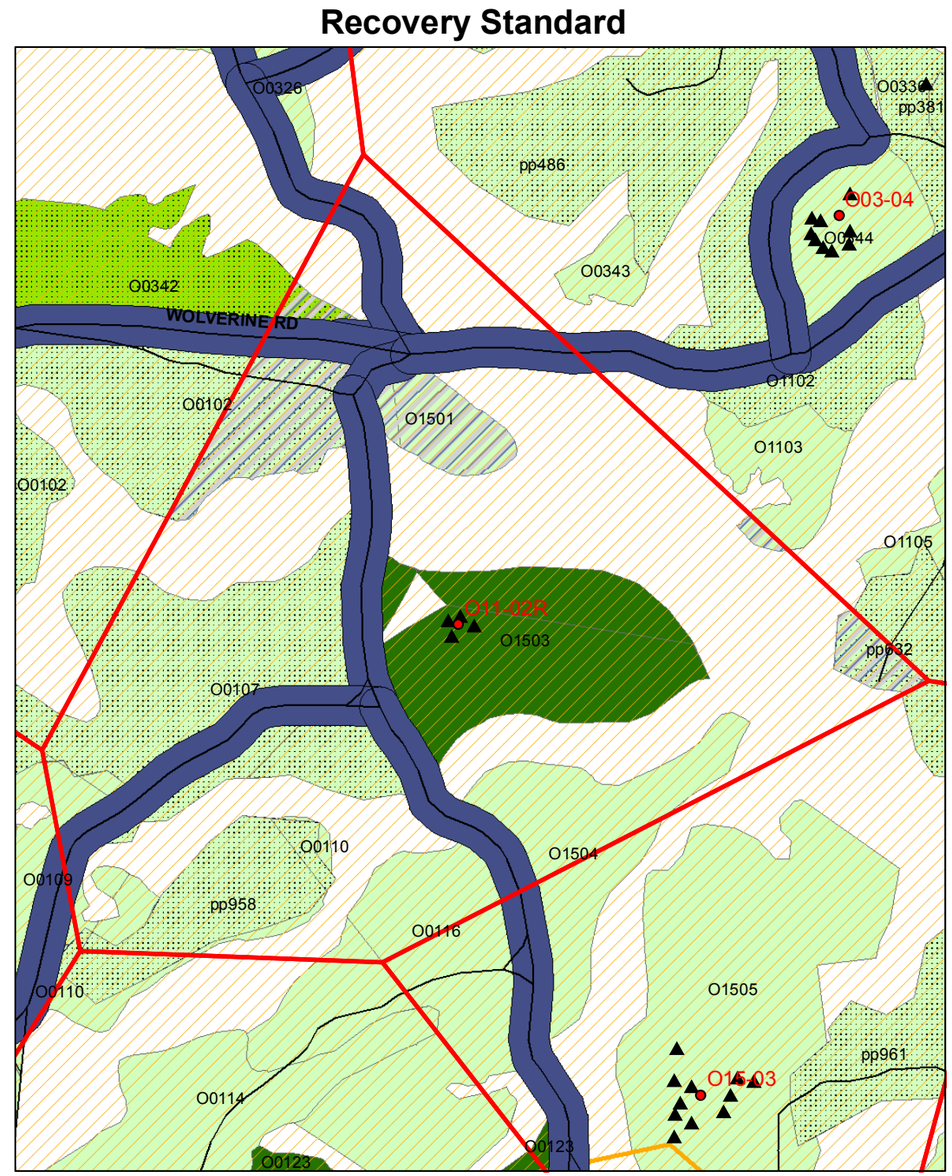


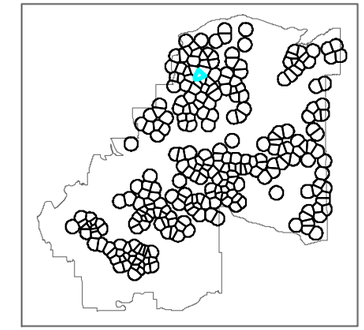
Appendix Figure I-120. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O10-04** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.



Appendix Figure I-121. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O11-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.







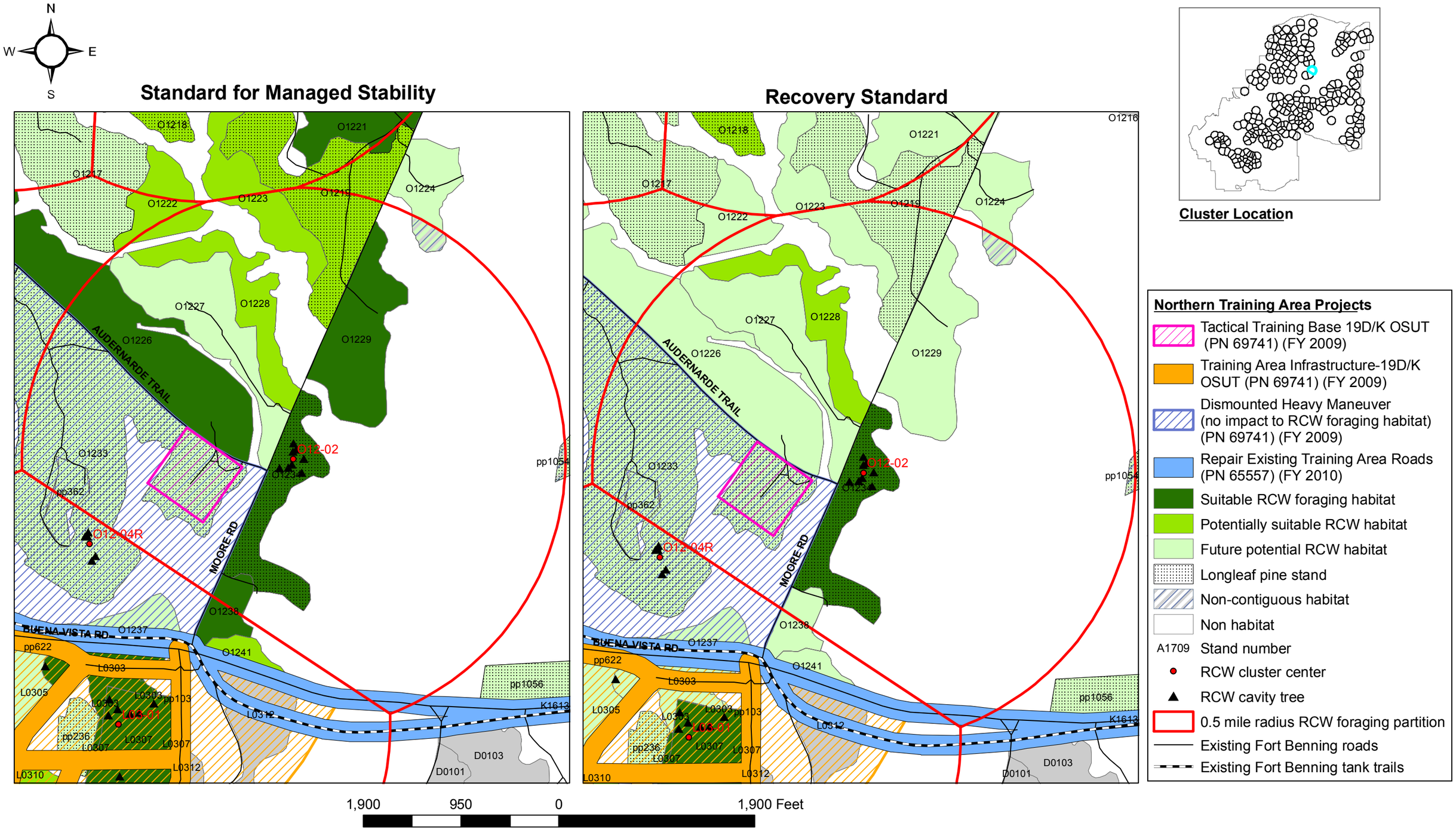
Cluster Location

Northern Training Area Projects

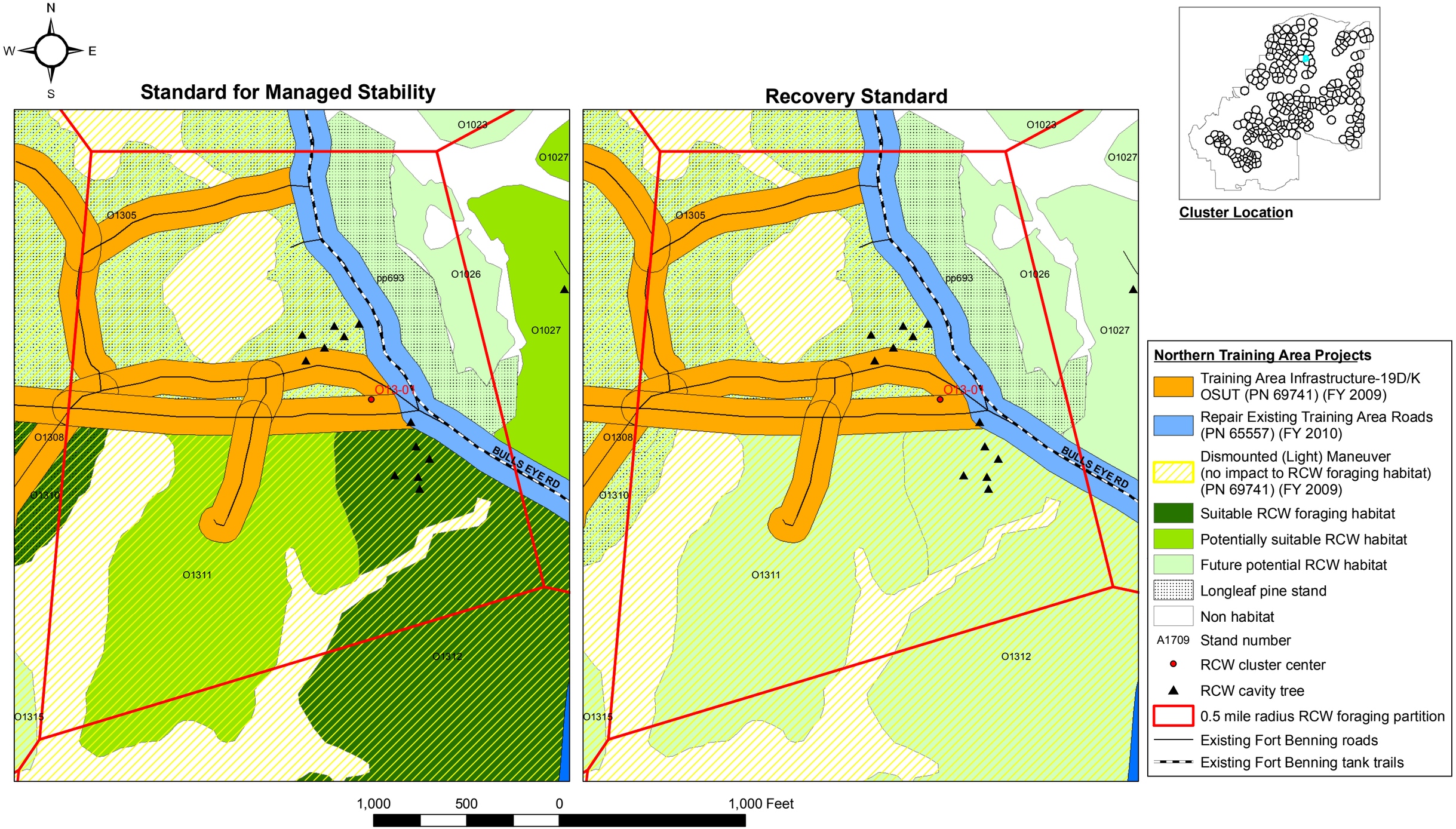
- Infrastructure-Upgrade Tank Trails (PN 69742) (FY 2009)
- Heavy Maneuver (within 25 feet of roads) (PN 69742) (FY 2009)
- Suitable RCW foraging habitat
- Potentially suitable RCW habitat
- Future potential RCW habitat
- Longleaf pine stand
- Non-contiguous habitat
- Non habitat
- A1709 Stand number
- RCW cluster center
- RCW cavity tree
- 0.5 mile radius RCW foraging partition
- Existing Fort Benning roads

1,500 750 0 1,500 Feet

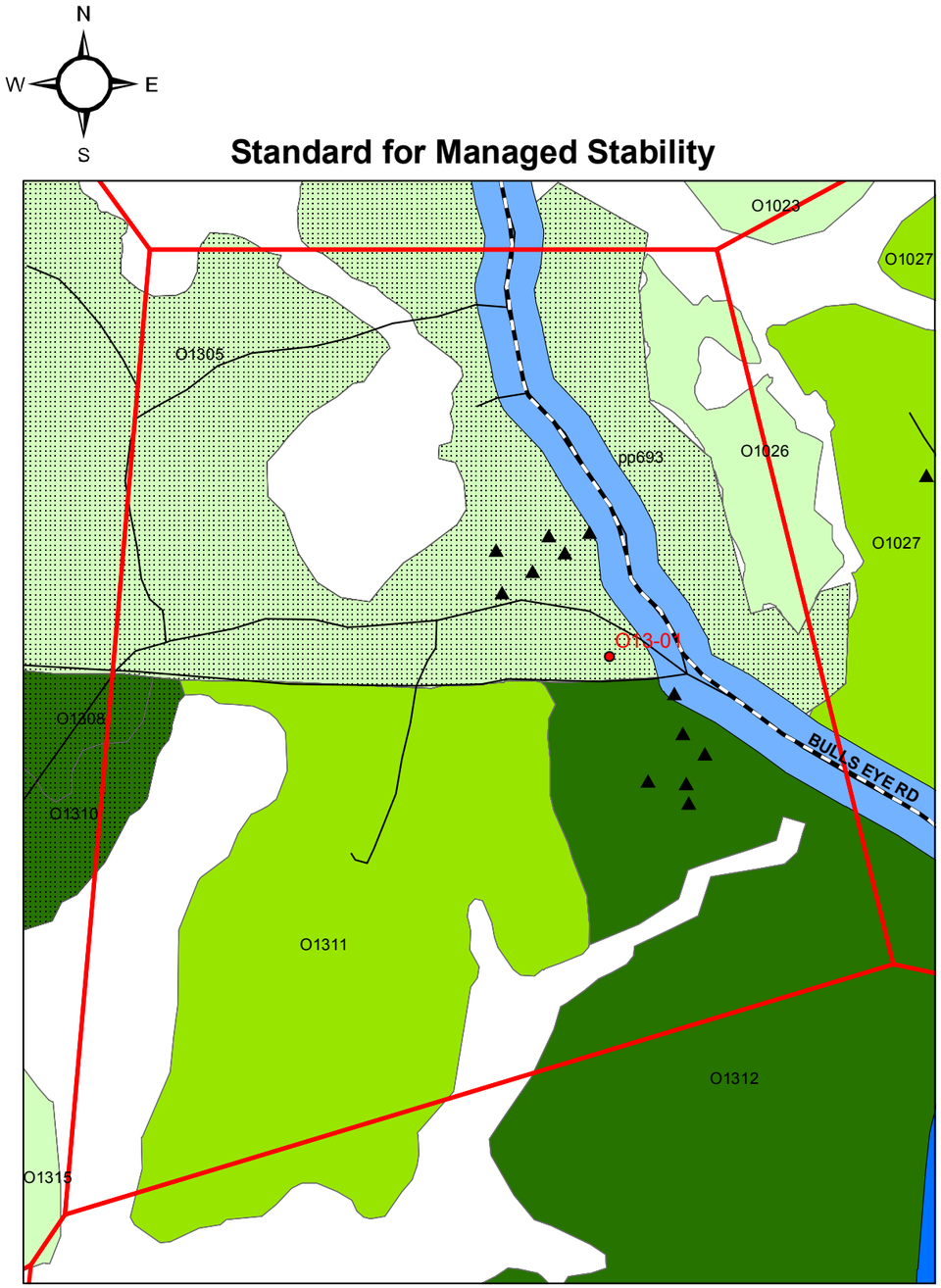
Appendix Figure I-122. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O11-02R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.

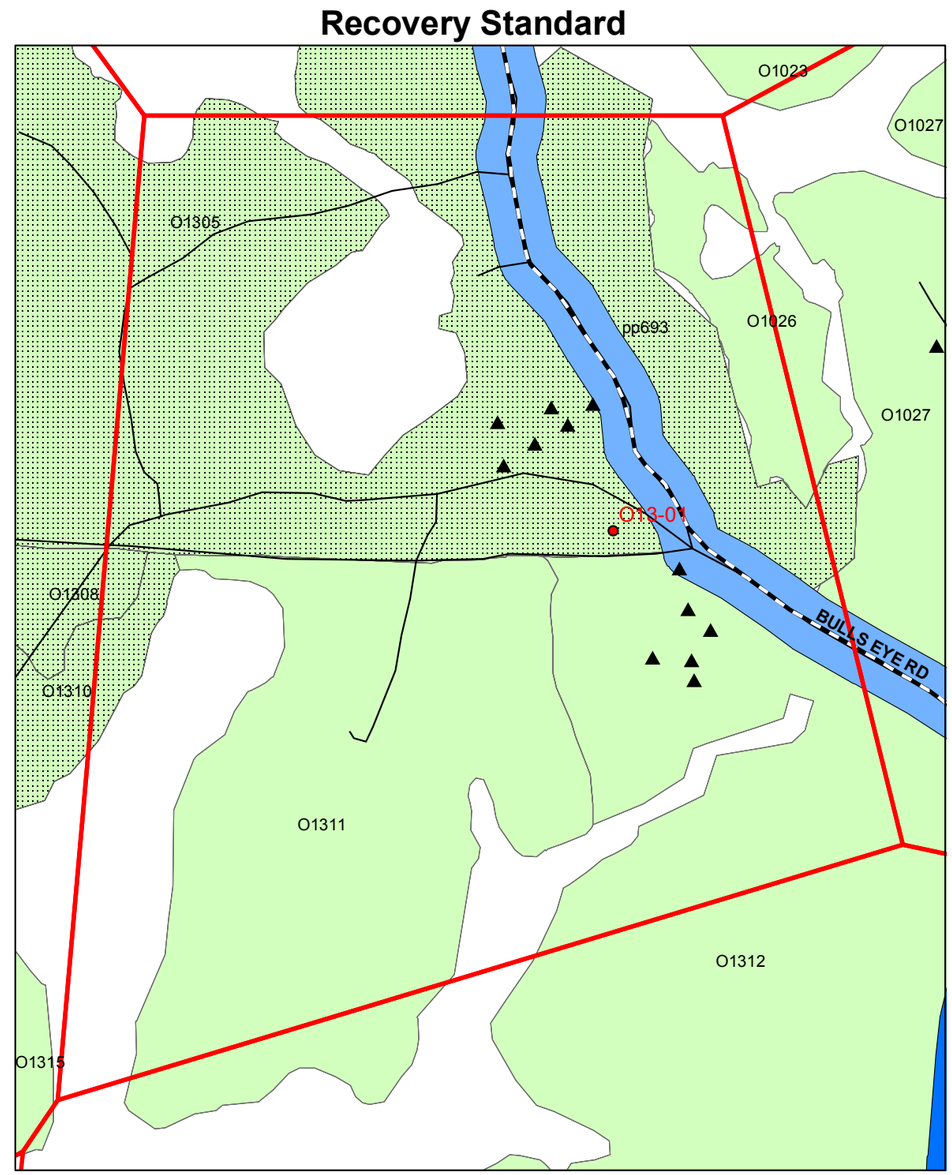


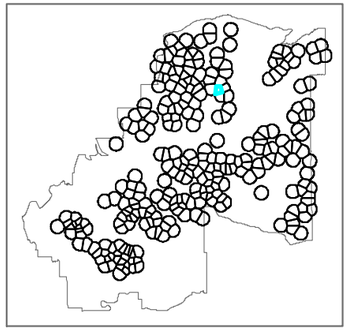
Appendix Figure I-123. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O12-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.



Appendix Figure I-124. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O13-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.







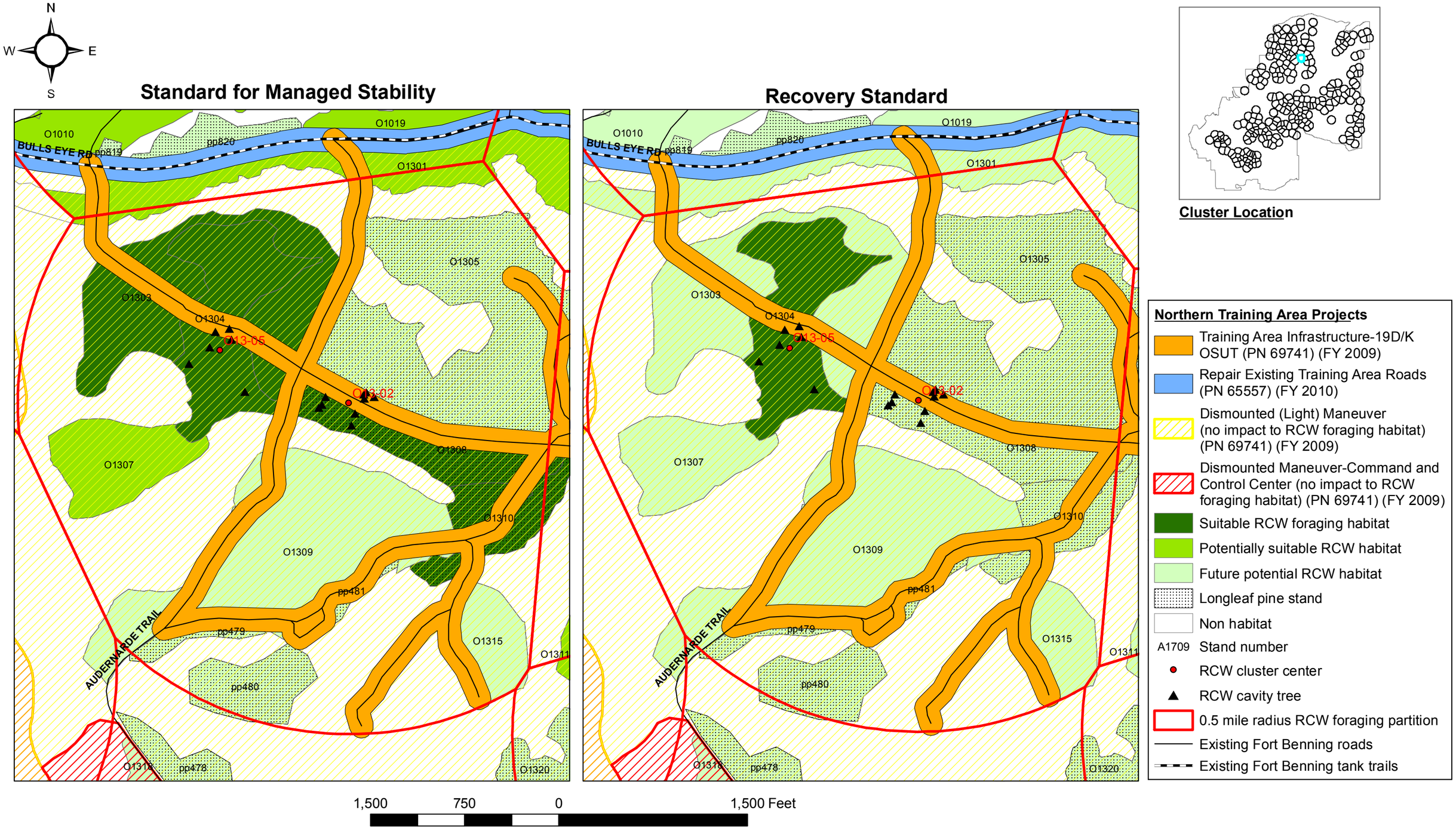
Cluster Location

Northern Training Area Projects

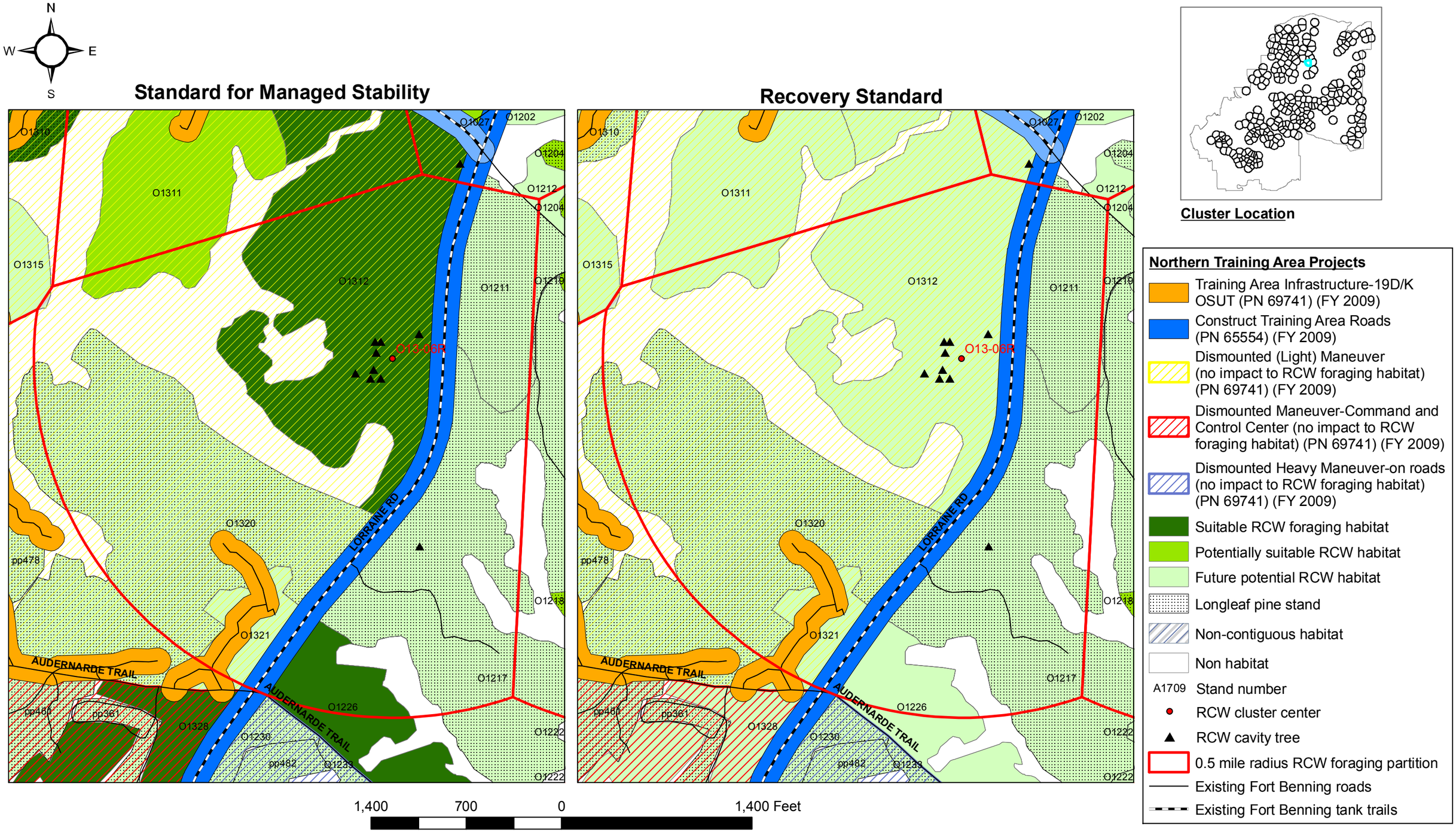
- Repair Existing Training Area Roads (PN 65557) (FY 2010)
- Suitable RCW foraging habitat
- Potentially suitable RCW habitat
- Future potential RCW habitat
- Longleaf pine stand
- Non habitat
- A1709 Stand number
- RCW cluster center
- RCW cavity tree
- 0.5 mile radius RCW foraging partition
- Existing Fort Benning roads
- Existing Fort Benning tank trails

1,000 500 0 1,000 Feet

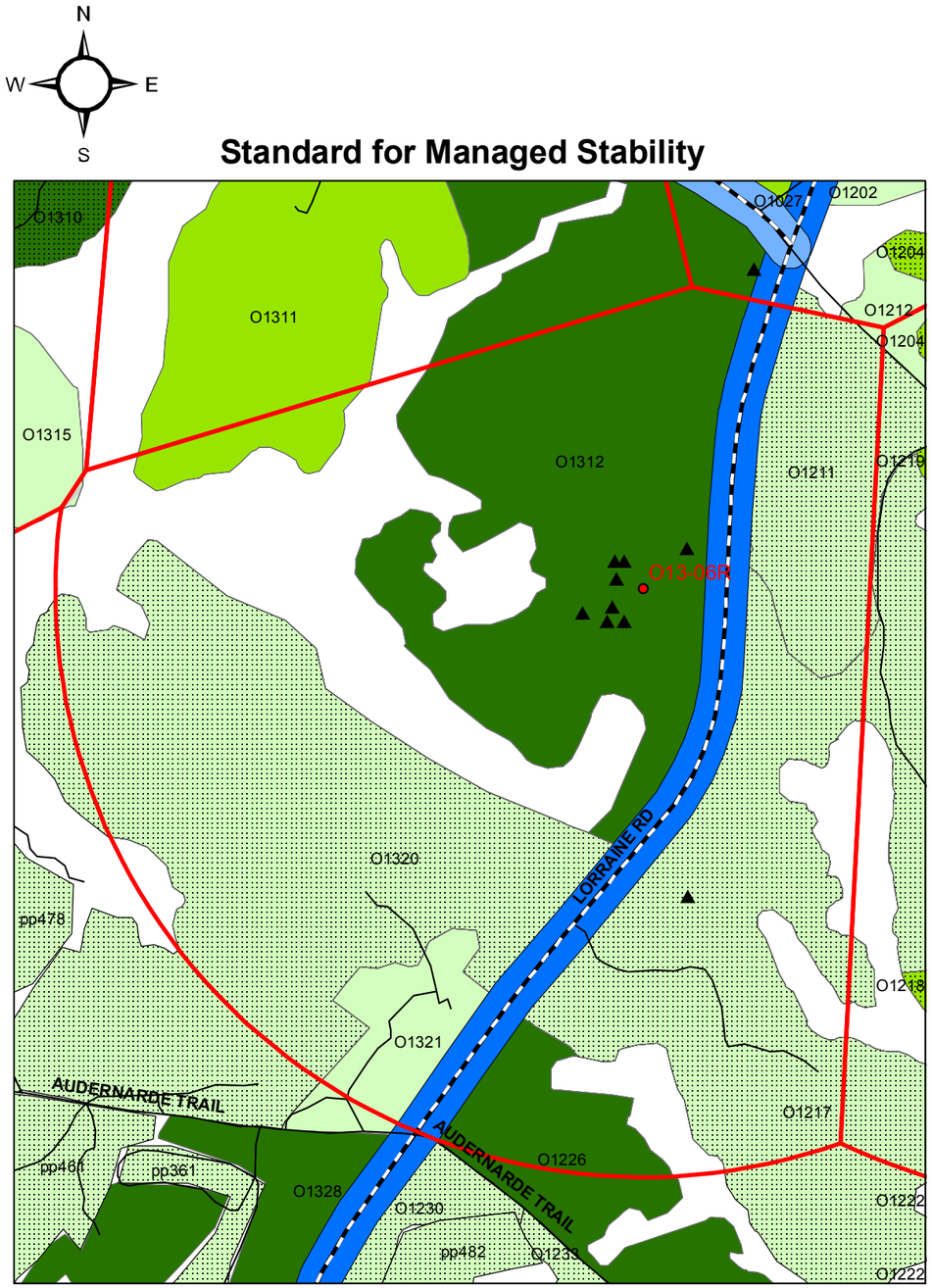
Appendix Figure I-125. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O13-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.

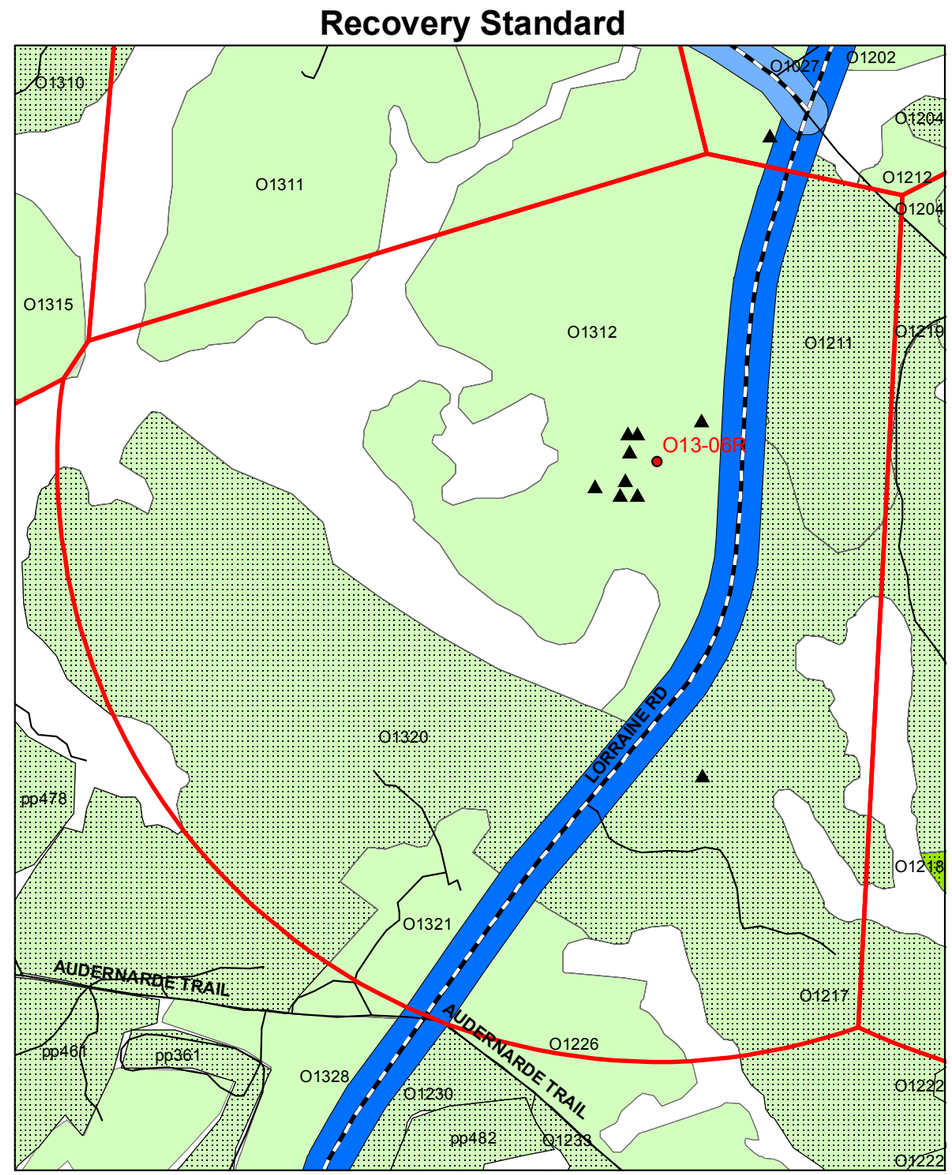


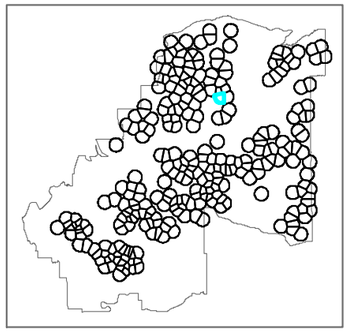
Appendix Figure I-126. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O13-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.



Appendix Figure I-127. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O13-06R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.







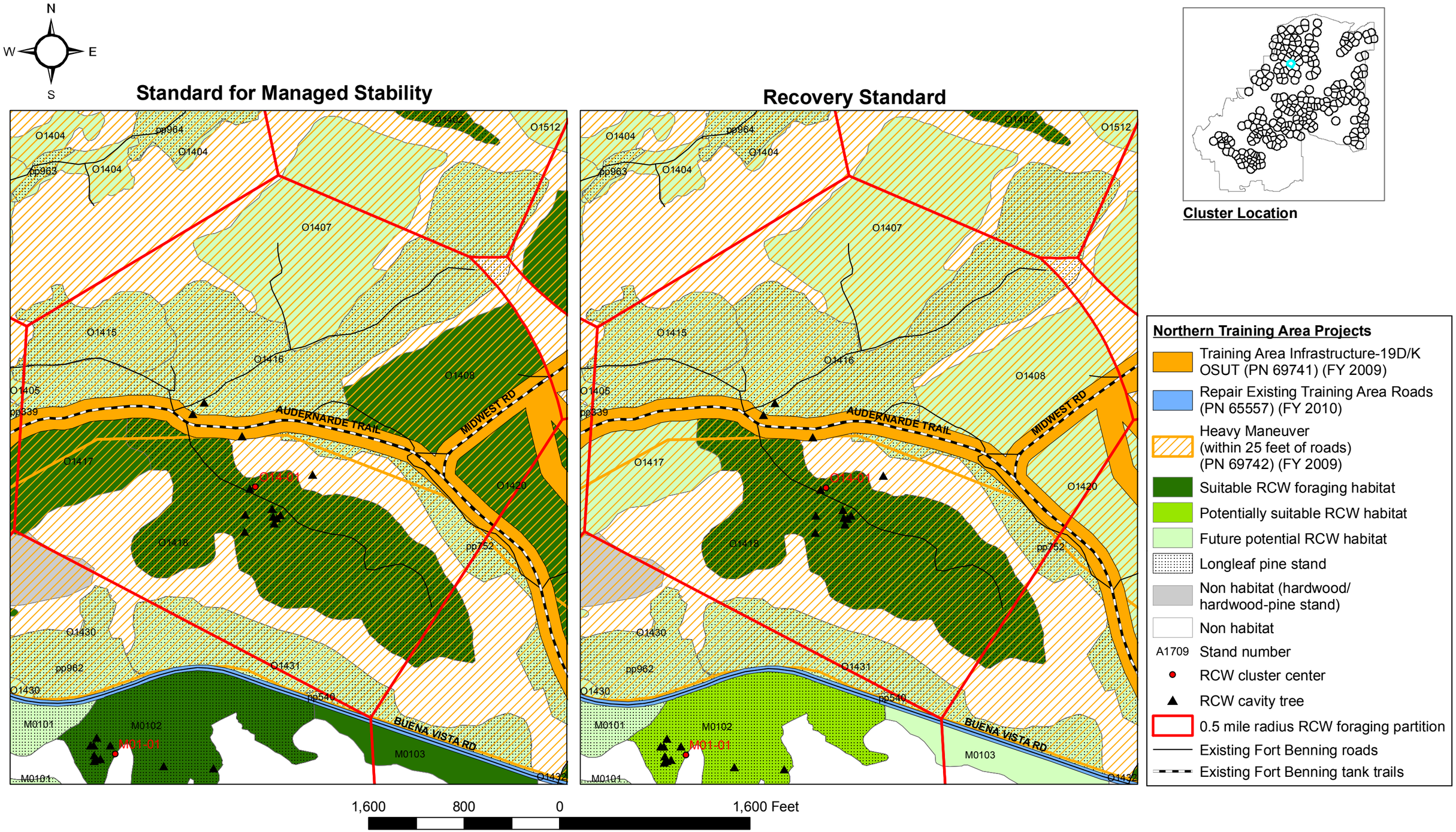
Cluster Location

Northern Training Area Projects

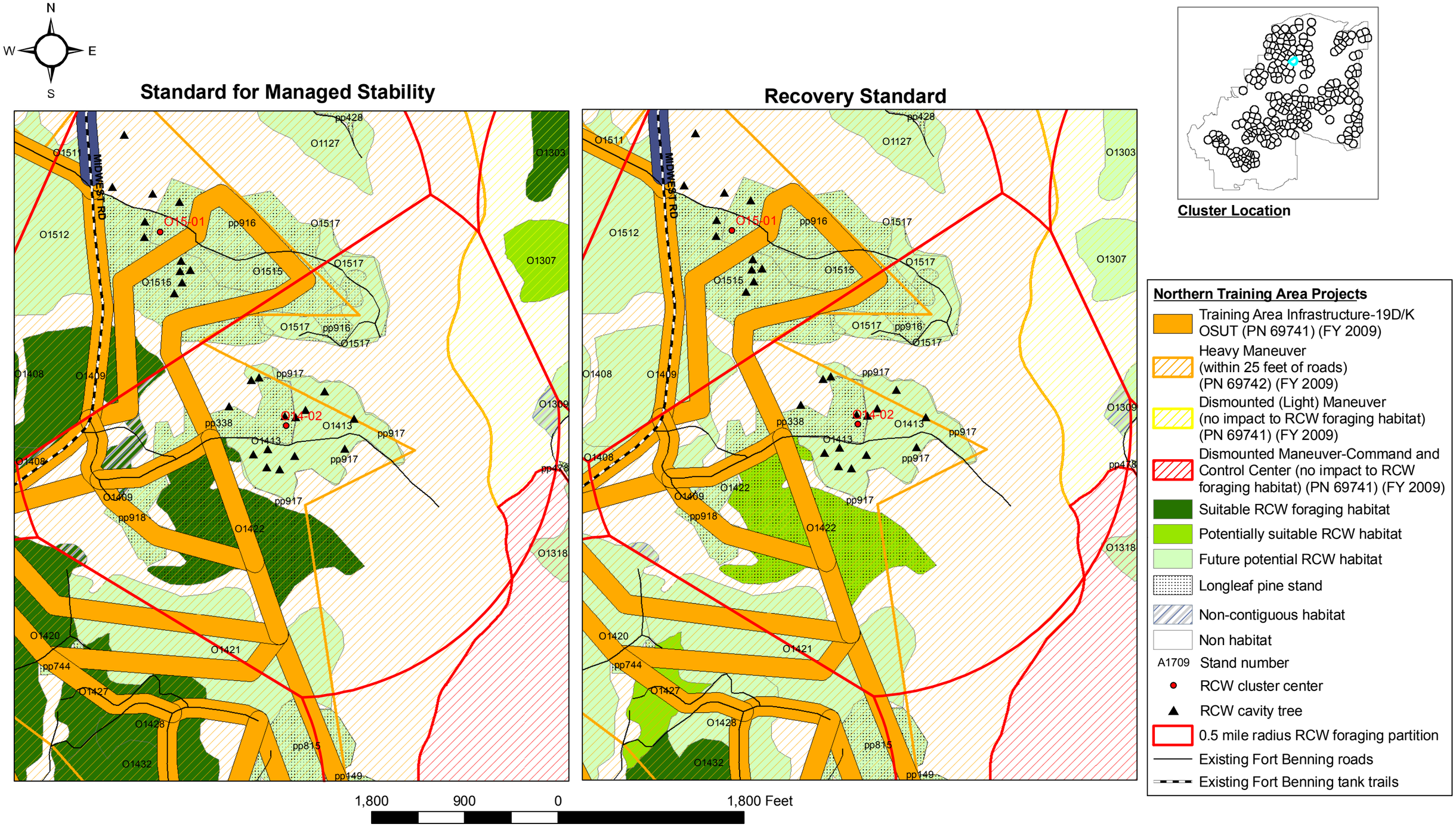
- Construct Training Area Roads (PN 65554) (FY 2009)
- Suitable RCW foraging habitat
- Potentially suitable RCW habitat
- Future potential RCW habitat
- Longleaf pine stand
- Non-contiguous habitat
- Non habitat
- A1709 Stand number
- RCW cluster center
- RCW cavity tree
- 0.5 mile radius RCW foraging partition
- Existing Fort Benning roads
- Existing Fort Benning tank trails

1,400 700 0 1,400 Feet

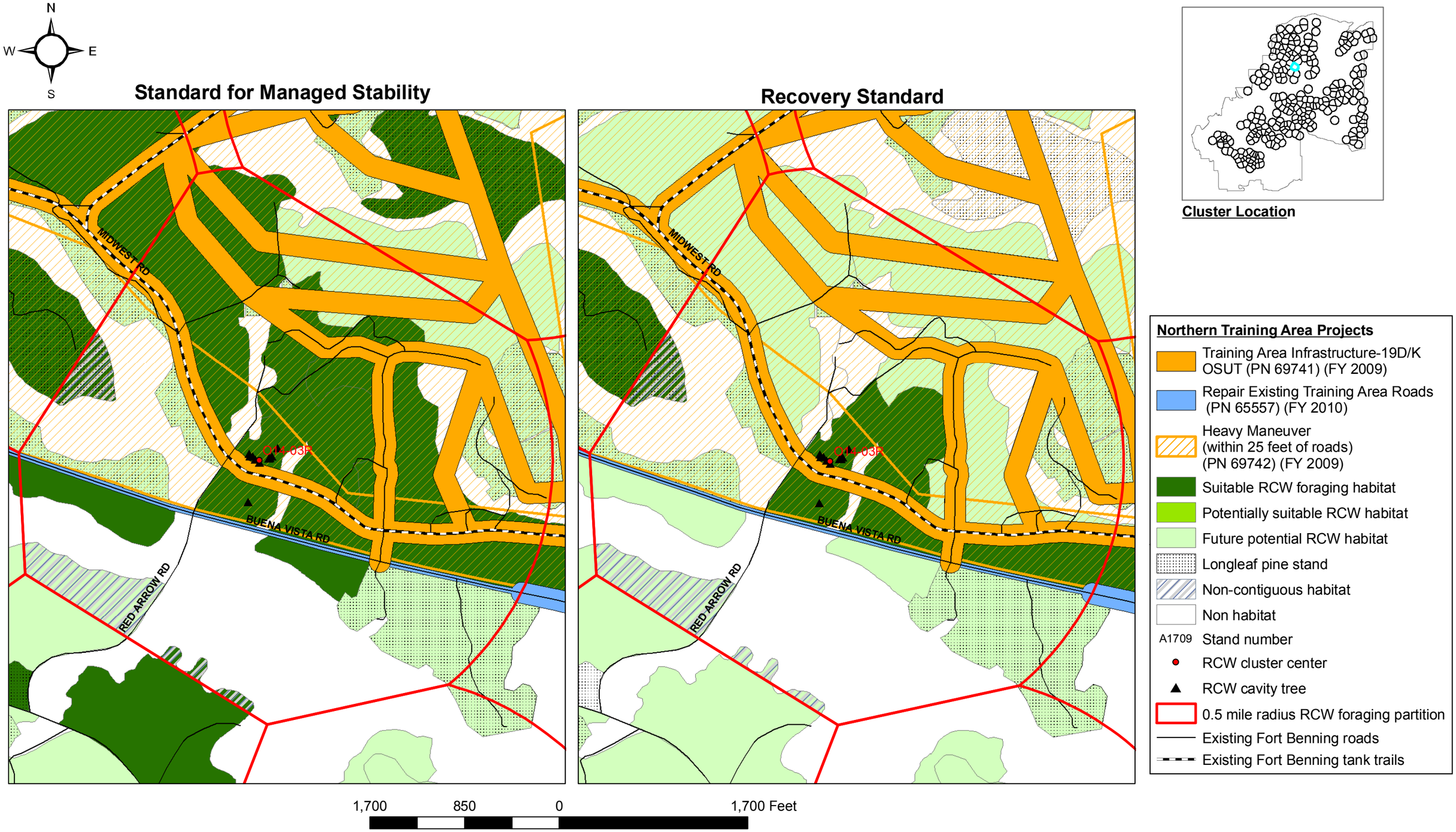
Appendix Figure I-128. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O13-06R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.



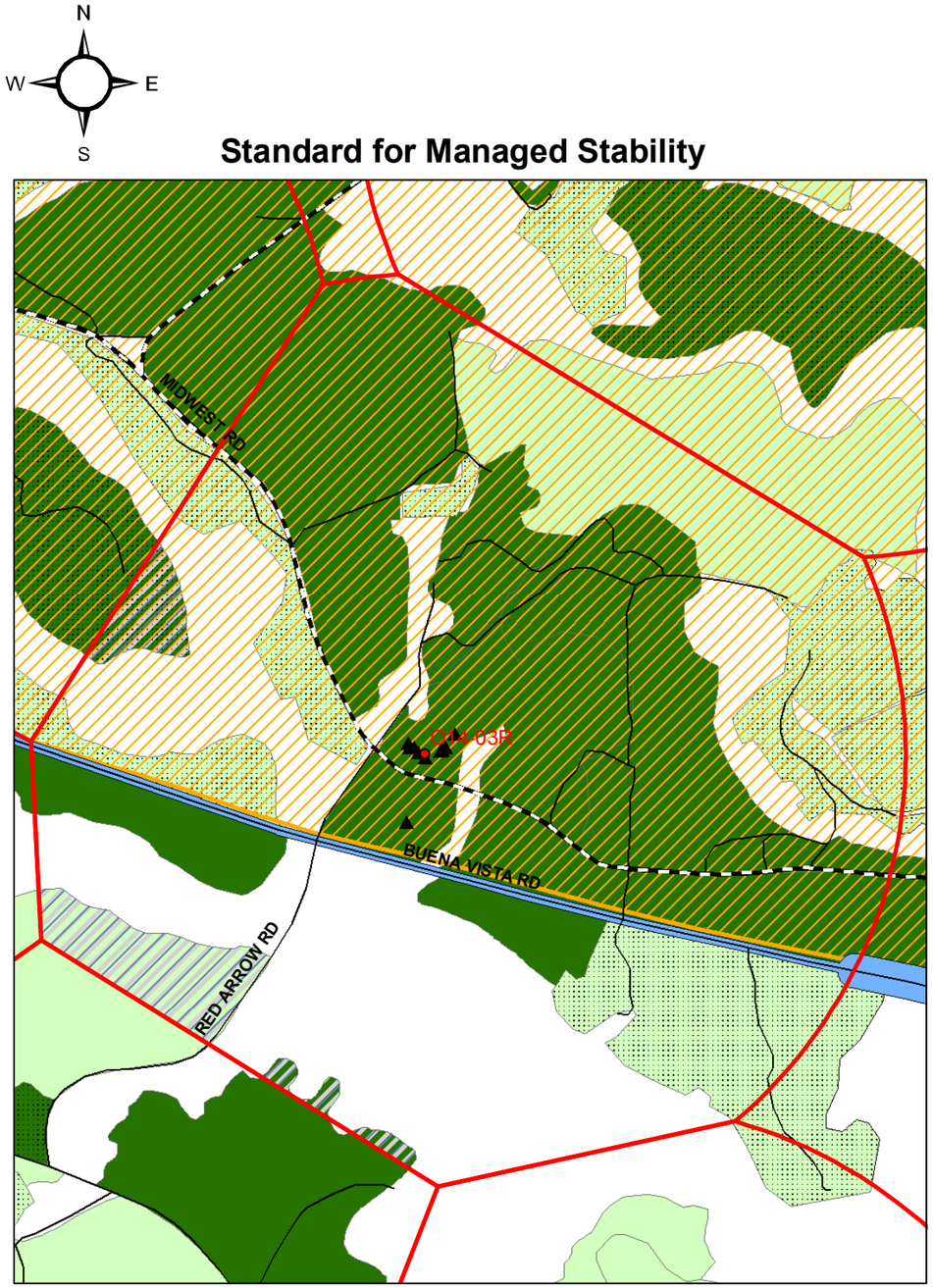
Appendix Figure I-129. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O14-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.

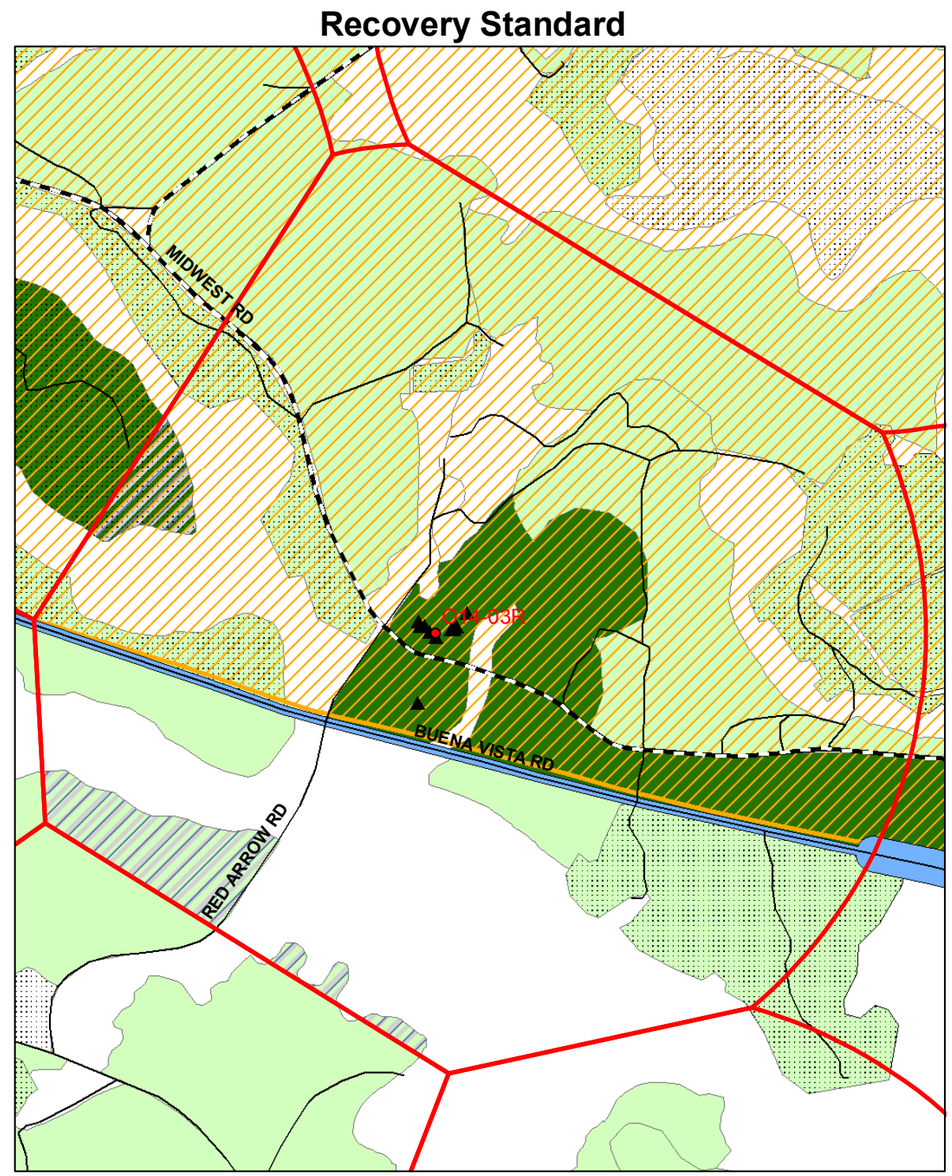


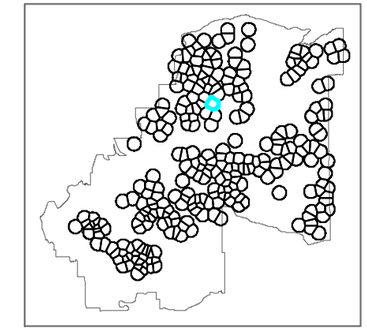
Appendix Figure I-130. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O14-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.



Appendix Figure I-131. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O14-03R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.







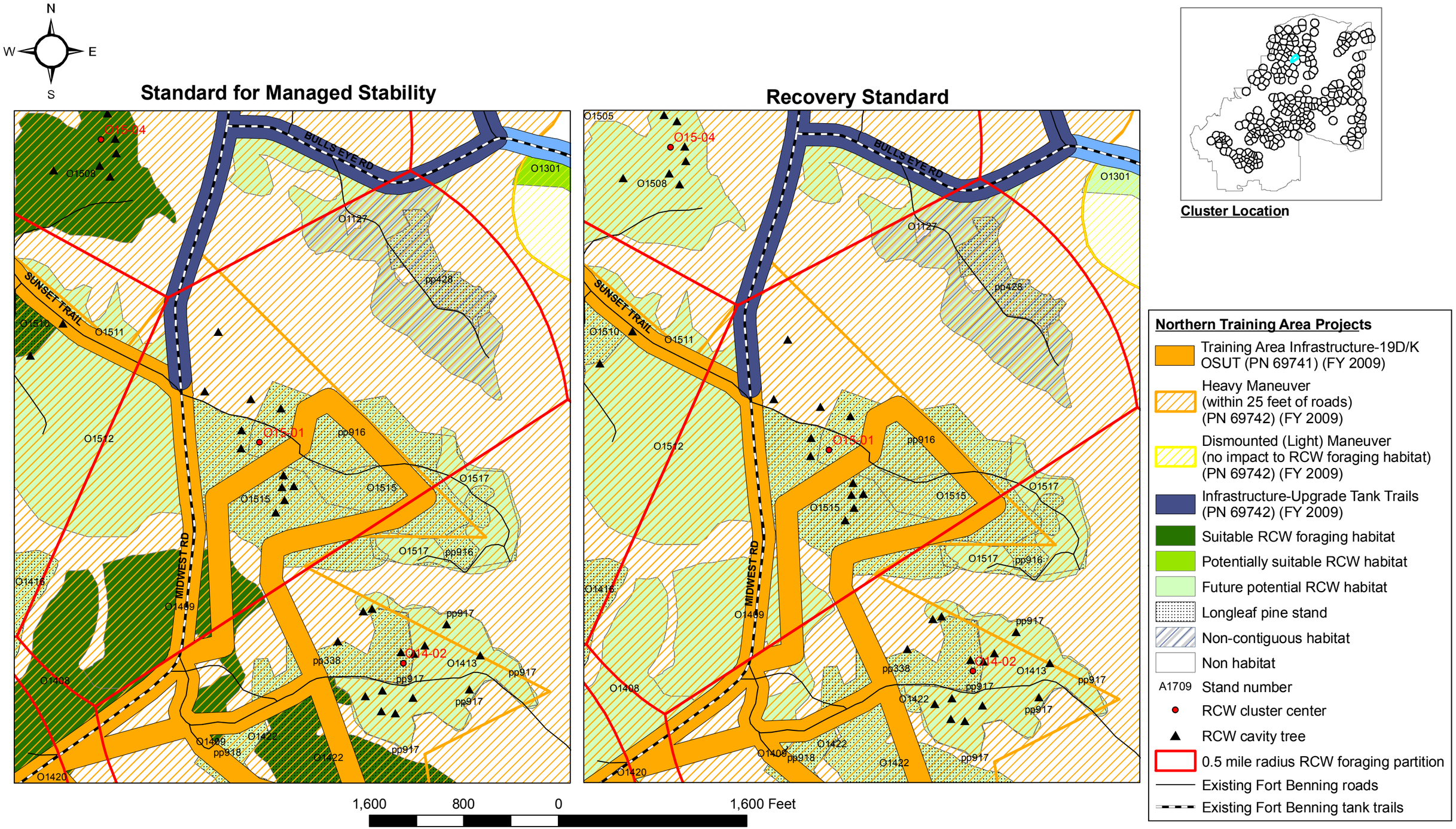
Cluster Location

Northern Training Area Projects

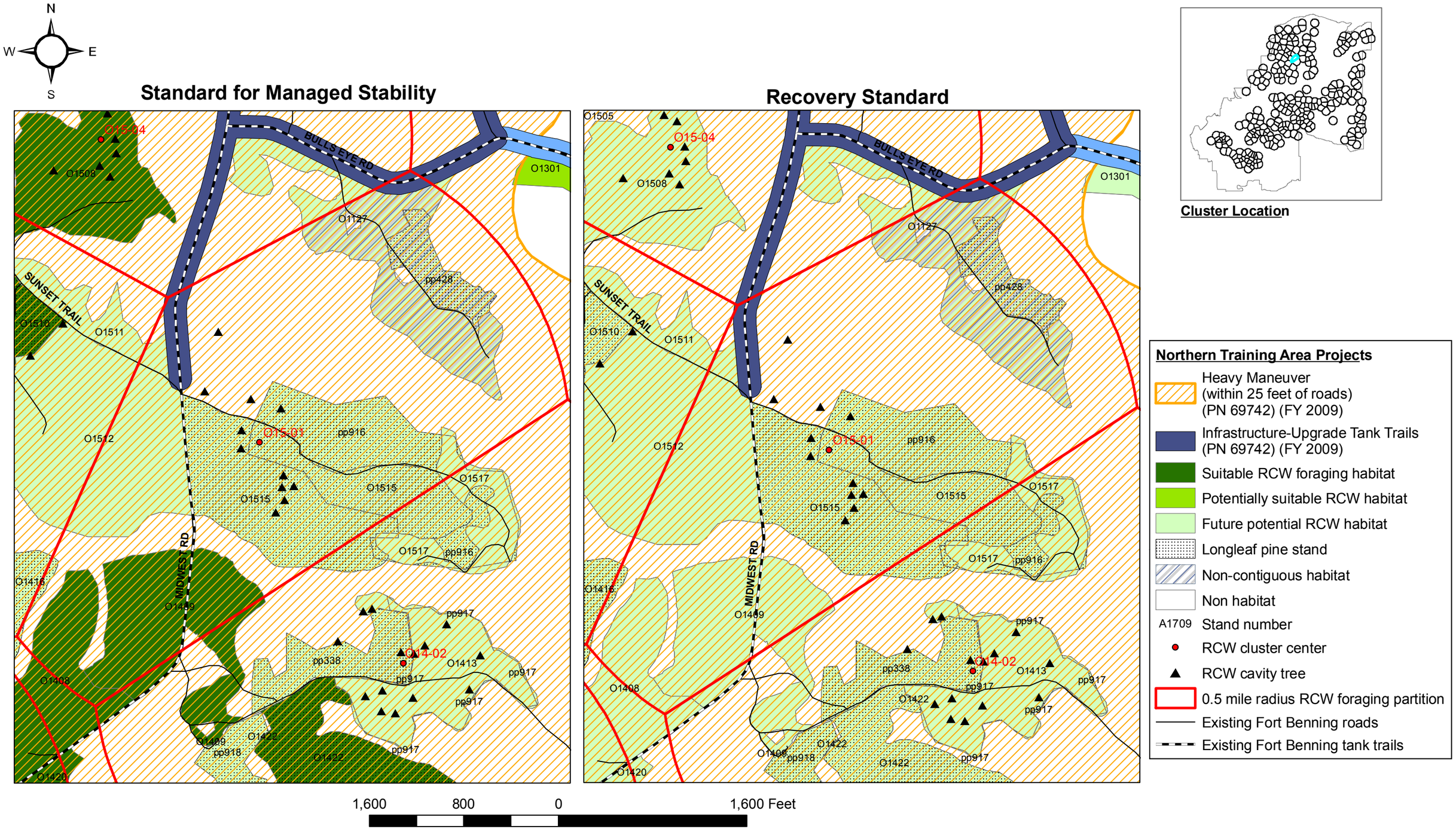
- Repair Existing Training Area Roads (PN 65557) (FY 2010)
- Heavy Maneuver (within 25 feet of roads) (PN 69742) (FY 2009)
- Suitable RCW foraging habitat
- Potentially suitable RCW habitat
- Future potential RCW habitat
- Longleaf pine stand
- Non-contiguous habitat
- Non habitat
- A1709 Stand number
- RCW cluster center
- RCW cavity tree
- 0.5 mile radius RCW foraging partition
- Existing Fort Benning roads
- Existing Fort Benning tank trails

1,700 850 0 1,700 Feet

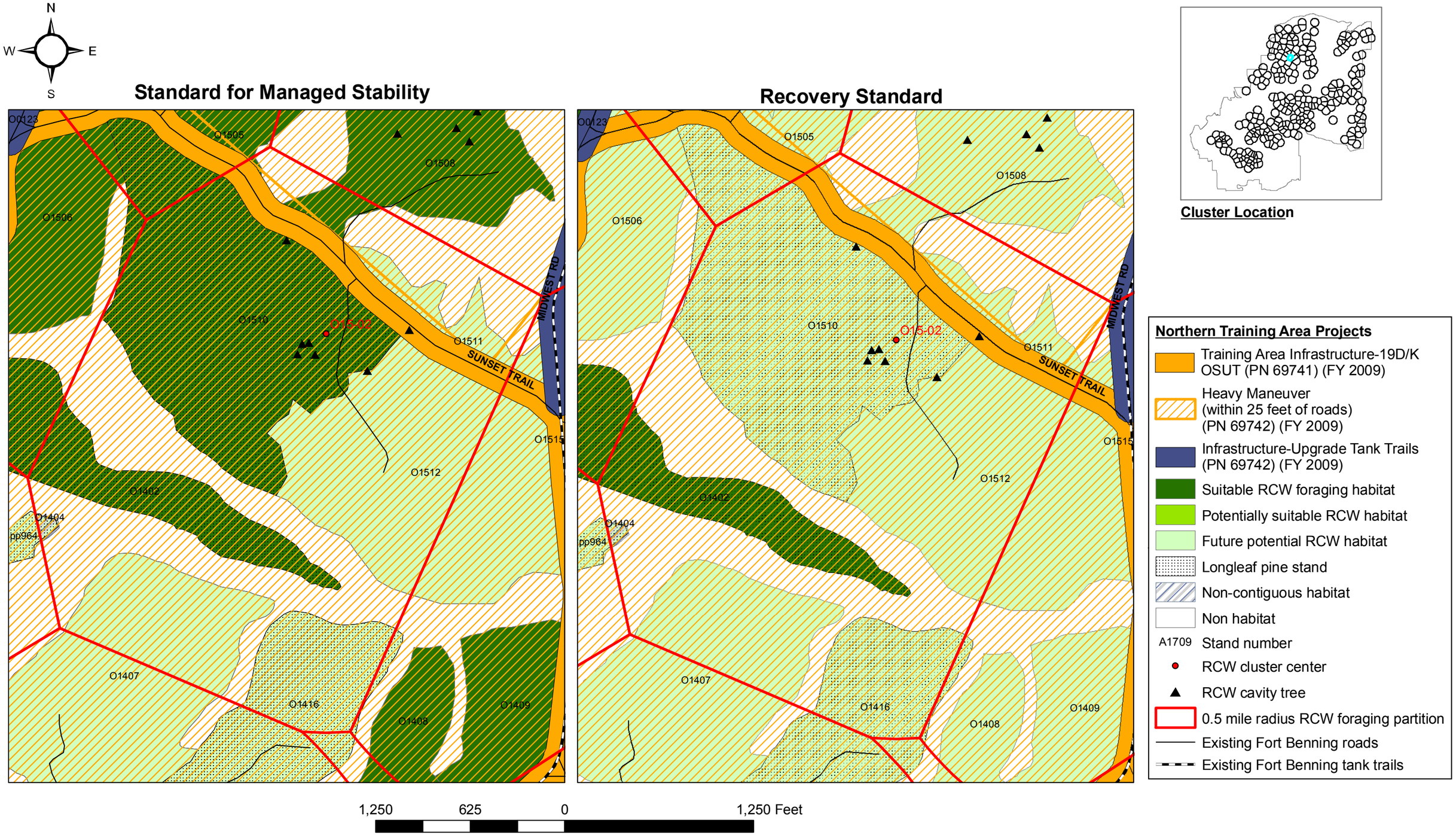
Appendix Figure I-132. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O14-03R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.



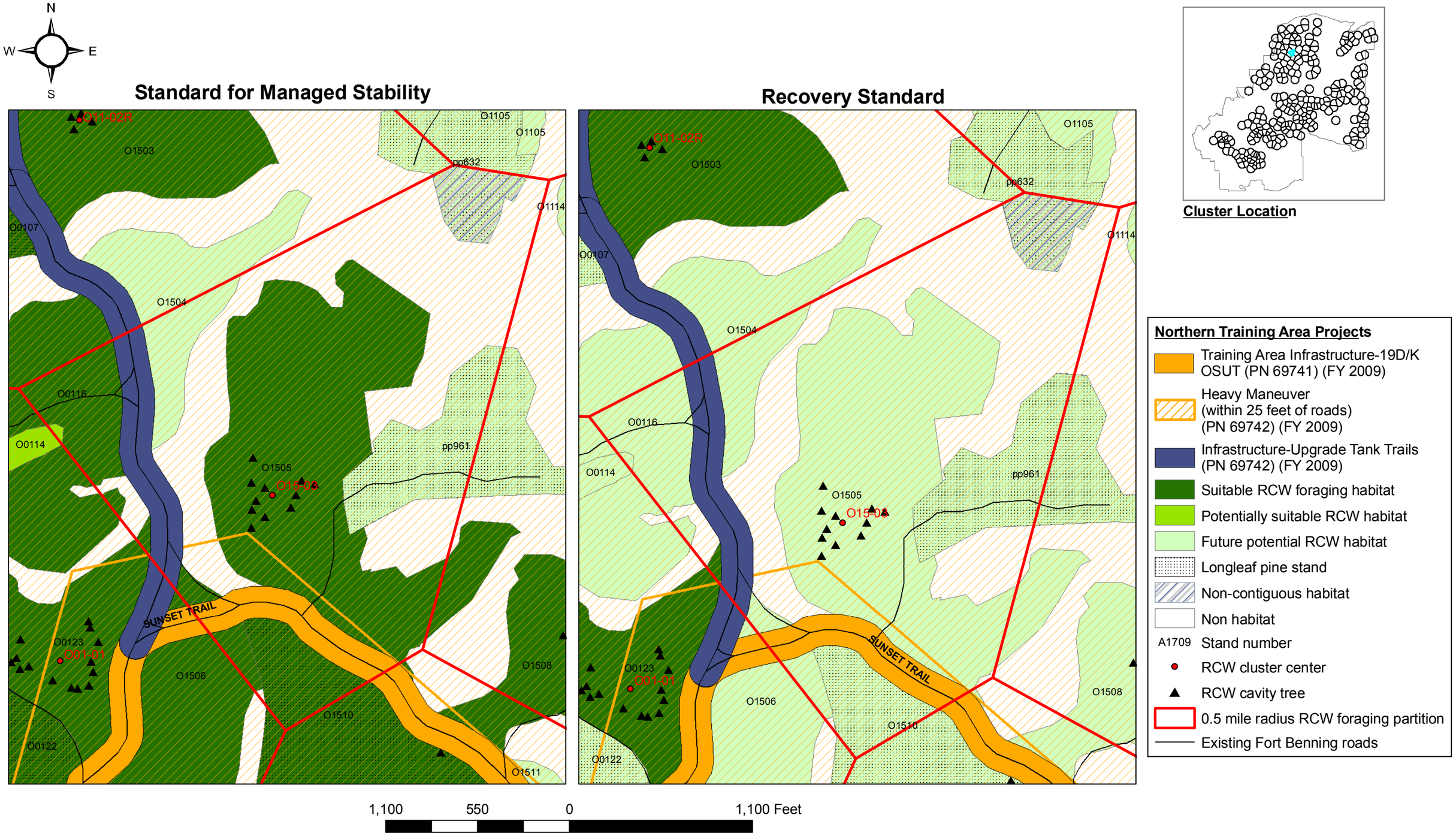
Appendix Figure I-133. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O15-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.



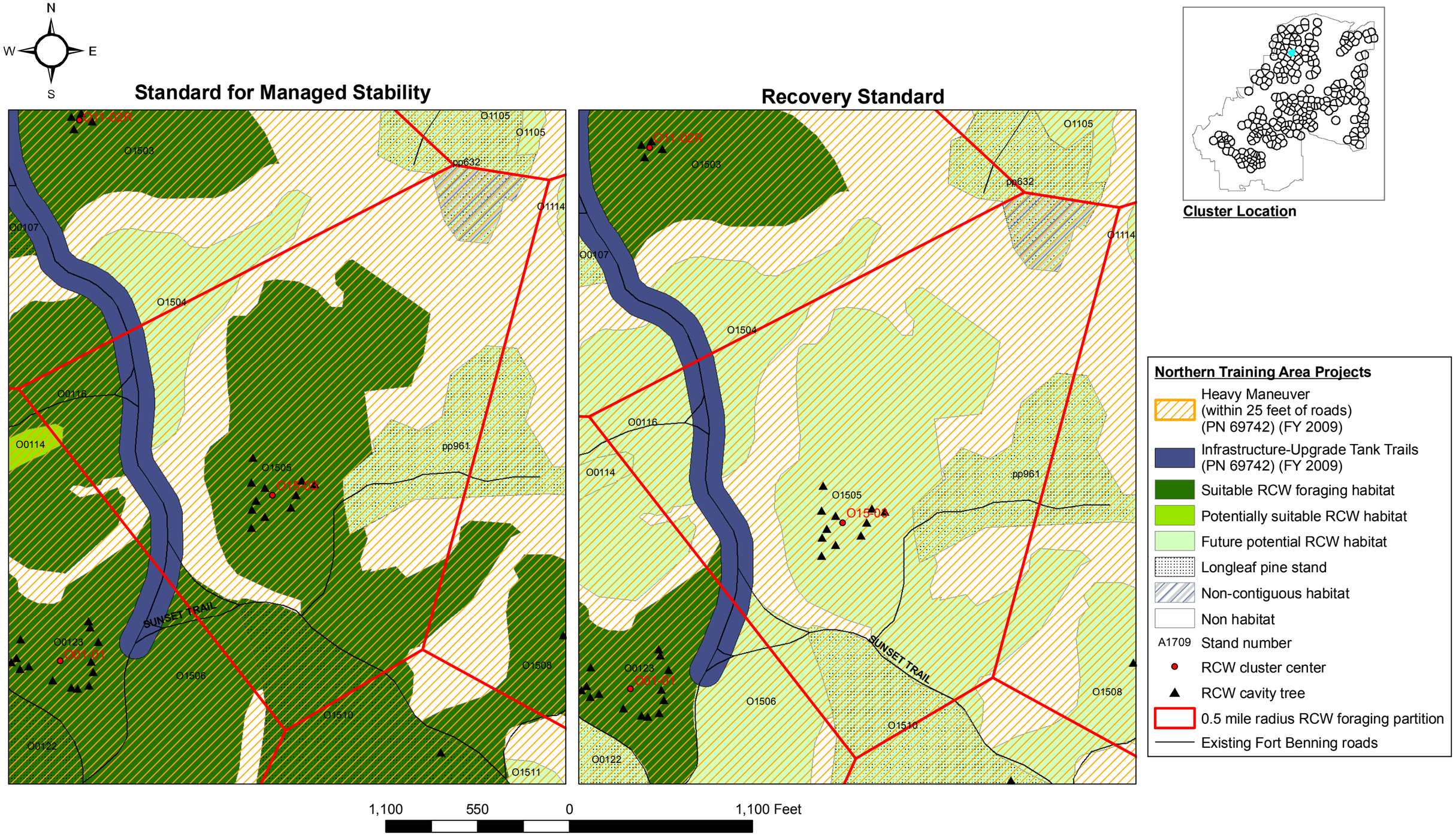
Appendix Figure I-134. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O15-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.



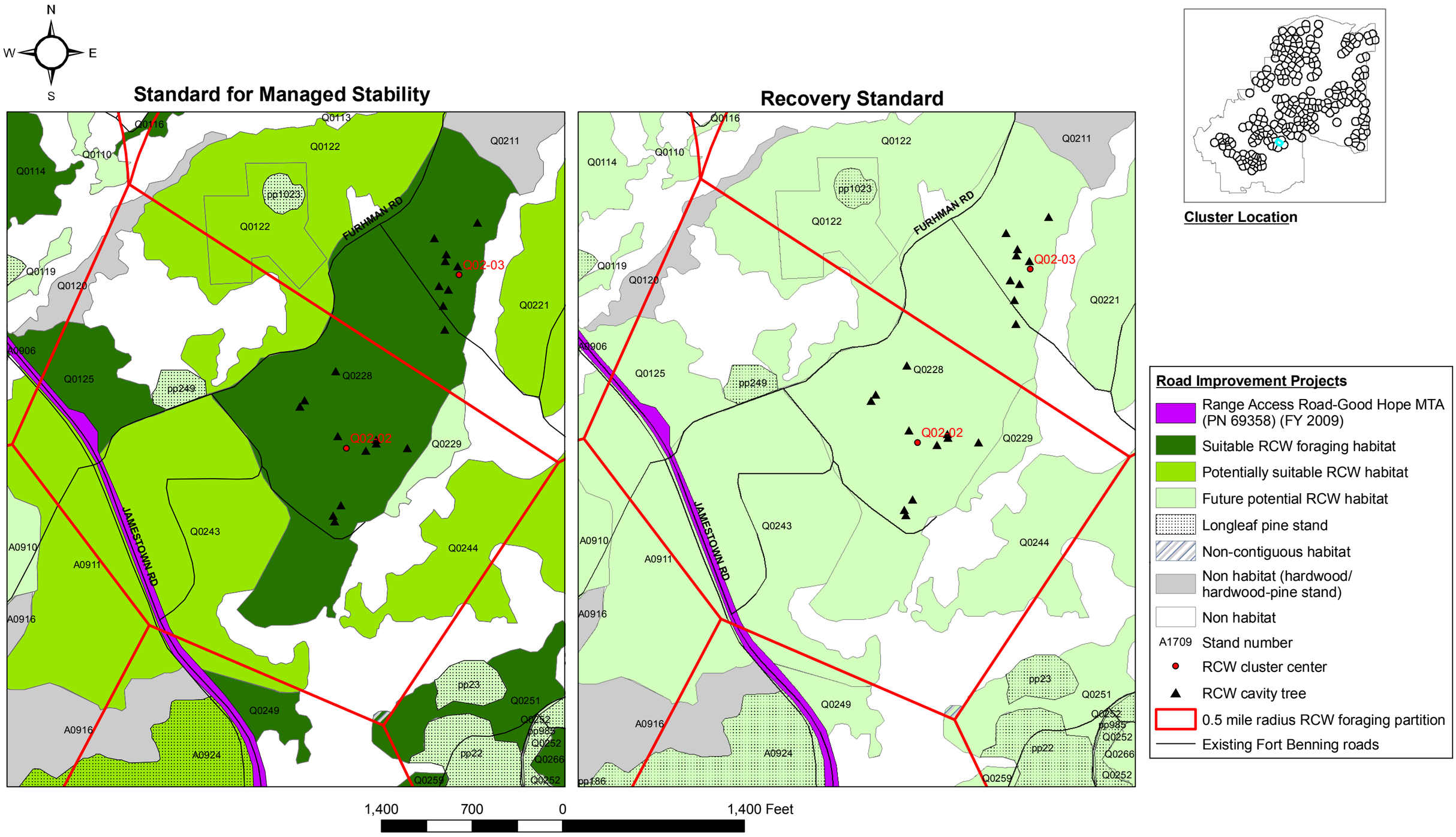
Appendix Figure I-135. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O15-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.



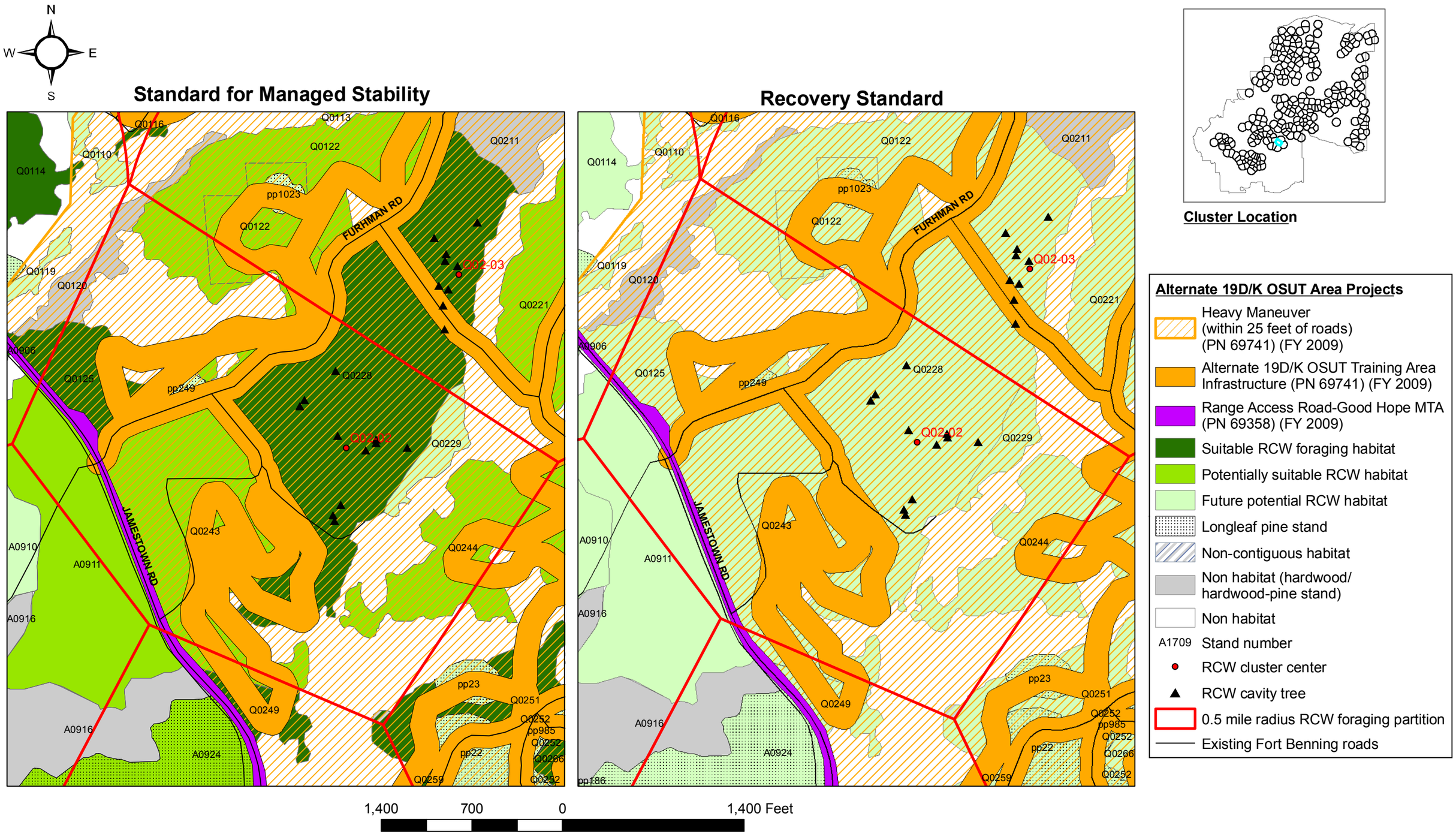
Appendix Figure I-136. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O15-03** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.



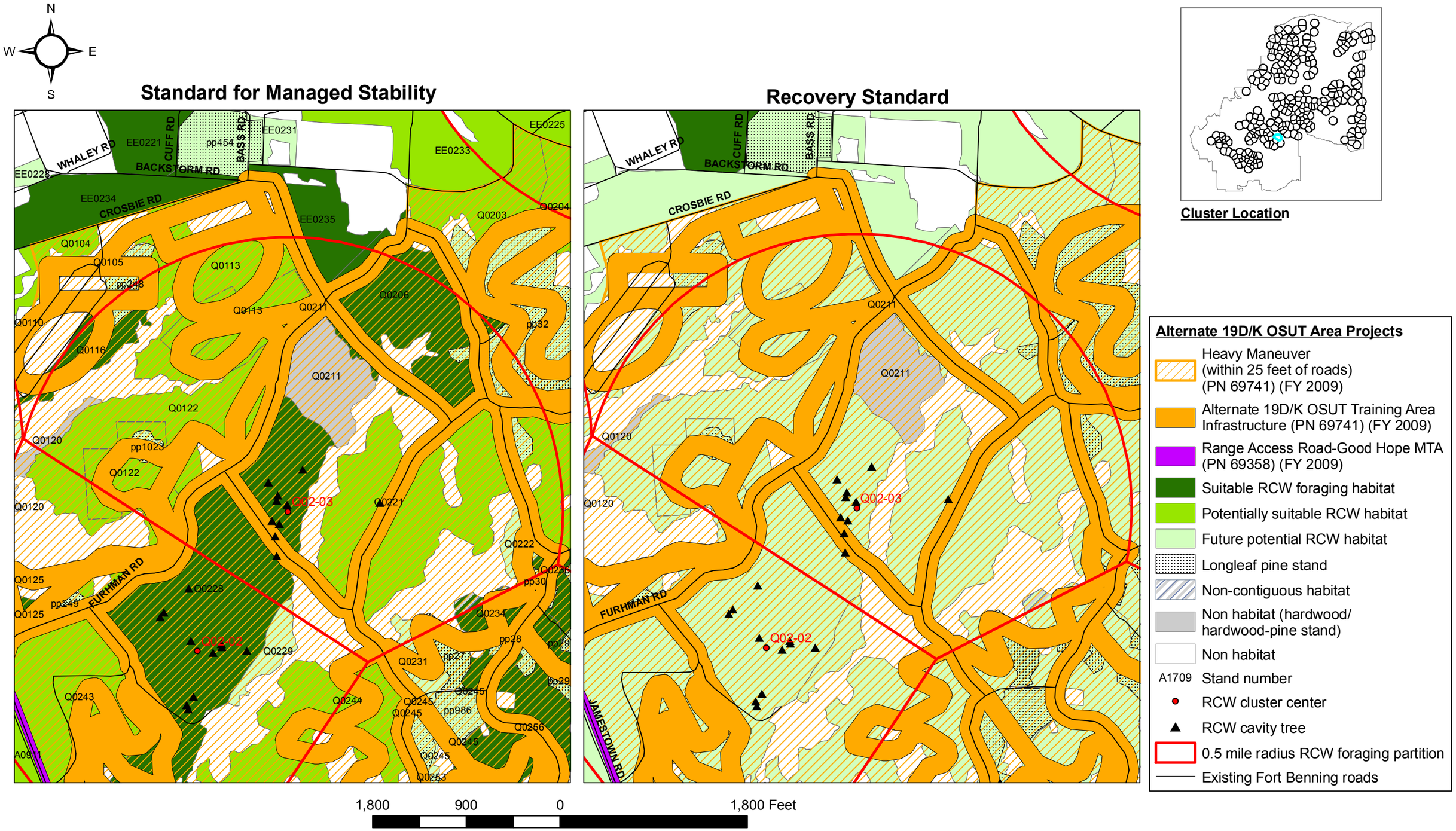
Appendix Figure I-137. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **O15-03** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.



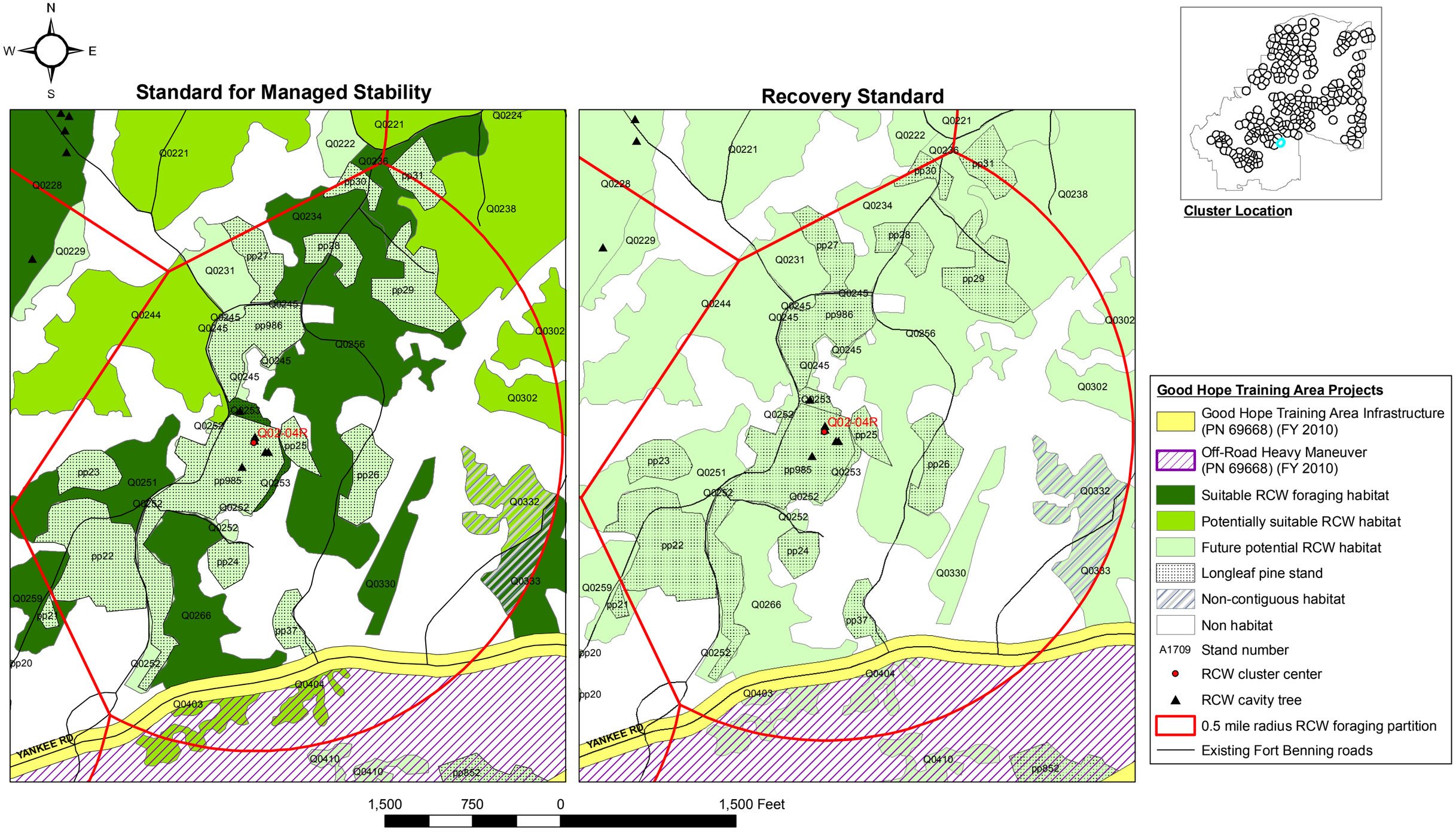
Appendix Figure I-138. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **Q02-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.



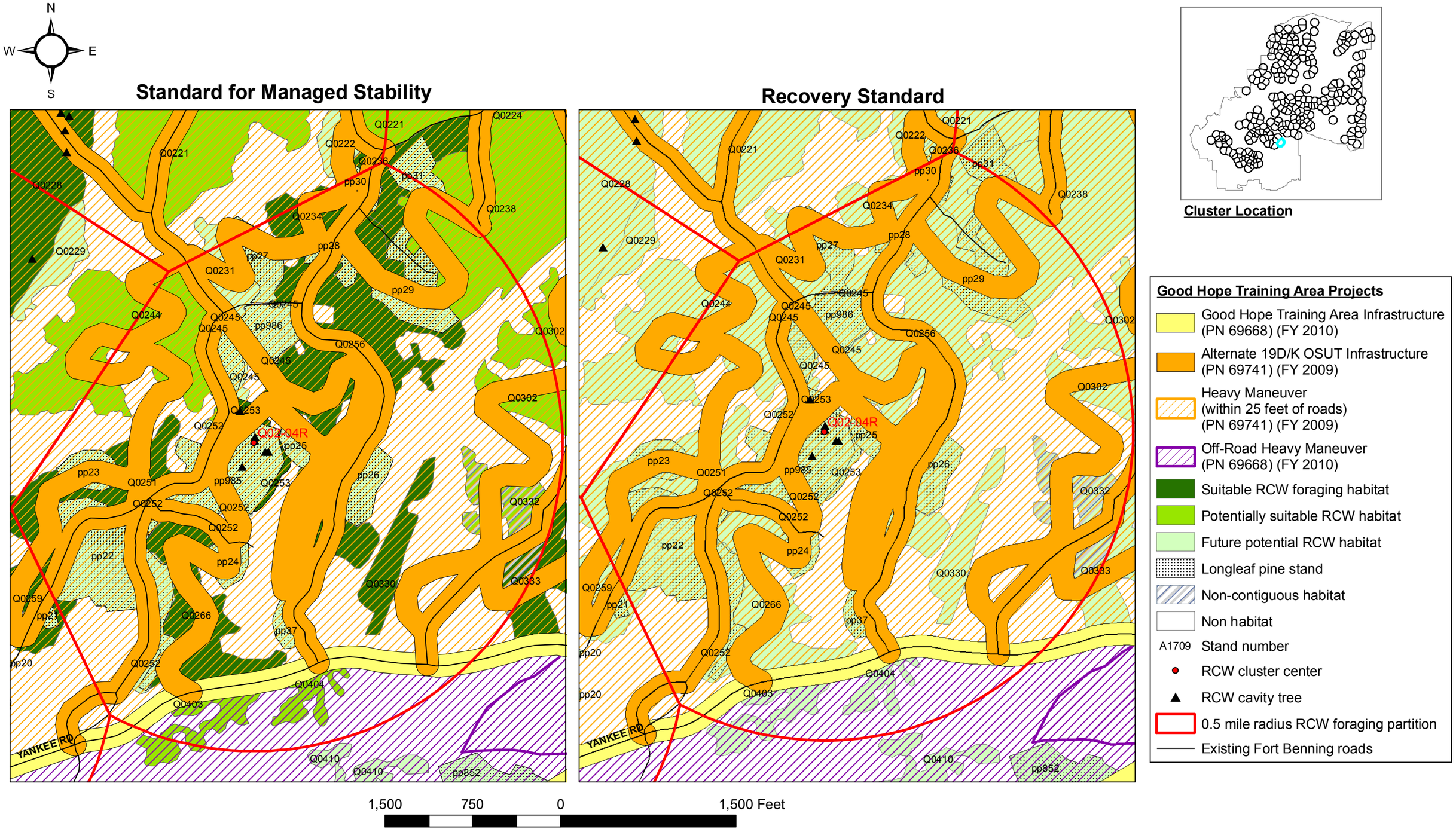
Appendix Figure I-139. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **Q02-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.



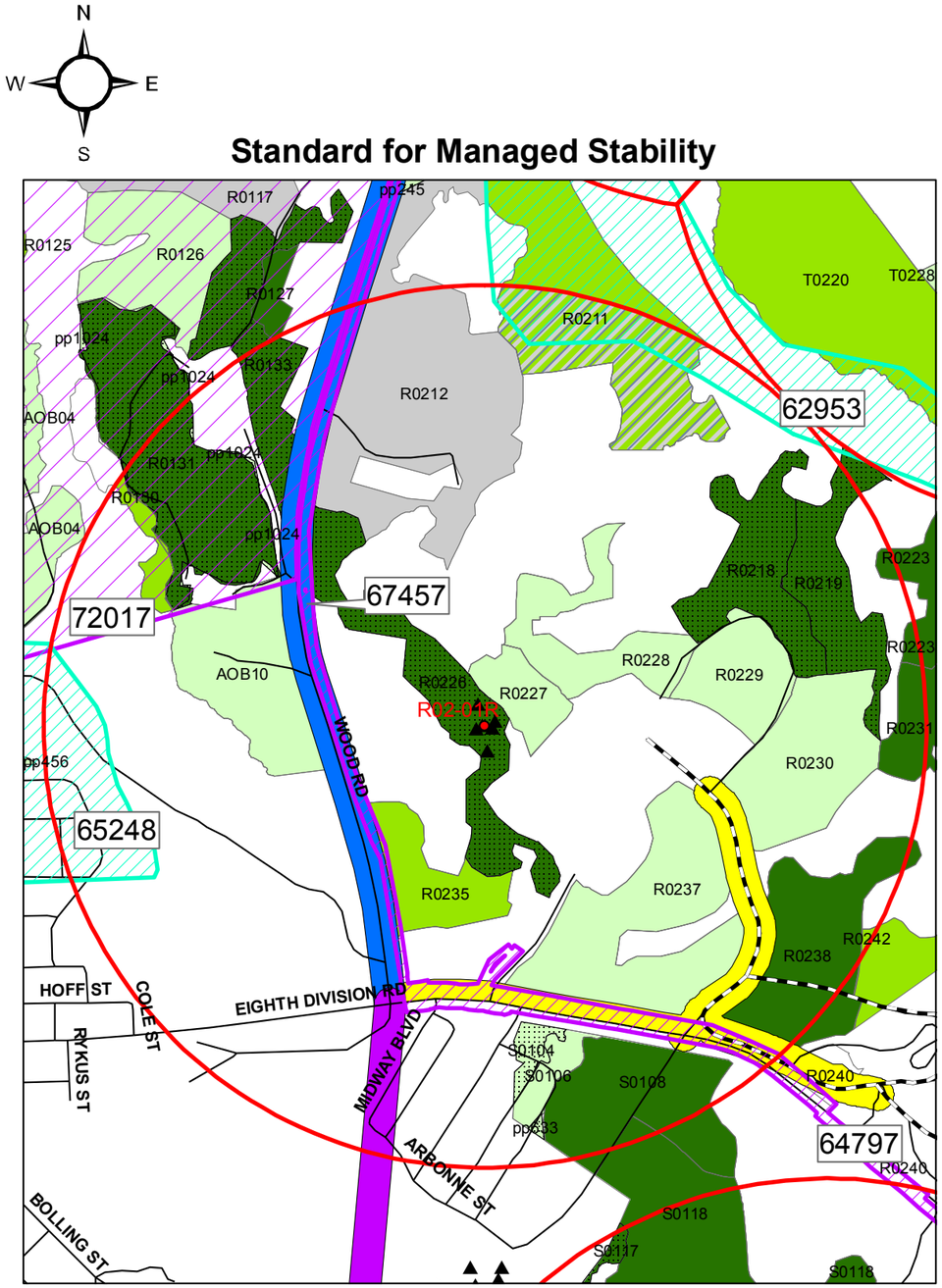
Appendix Figure I-140. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **Q02-03** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.

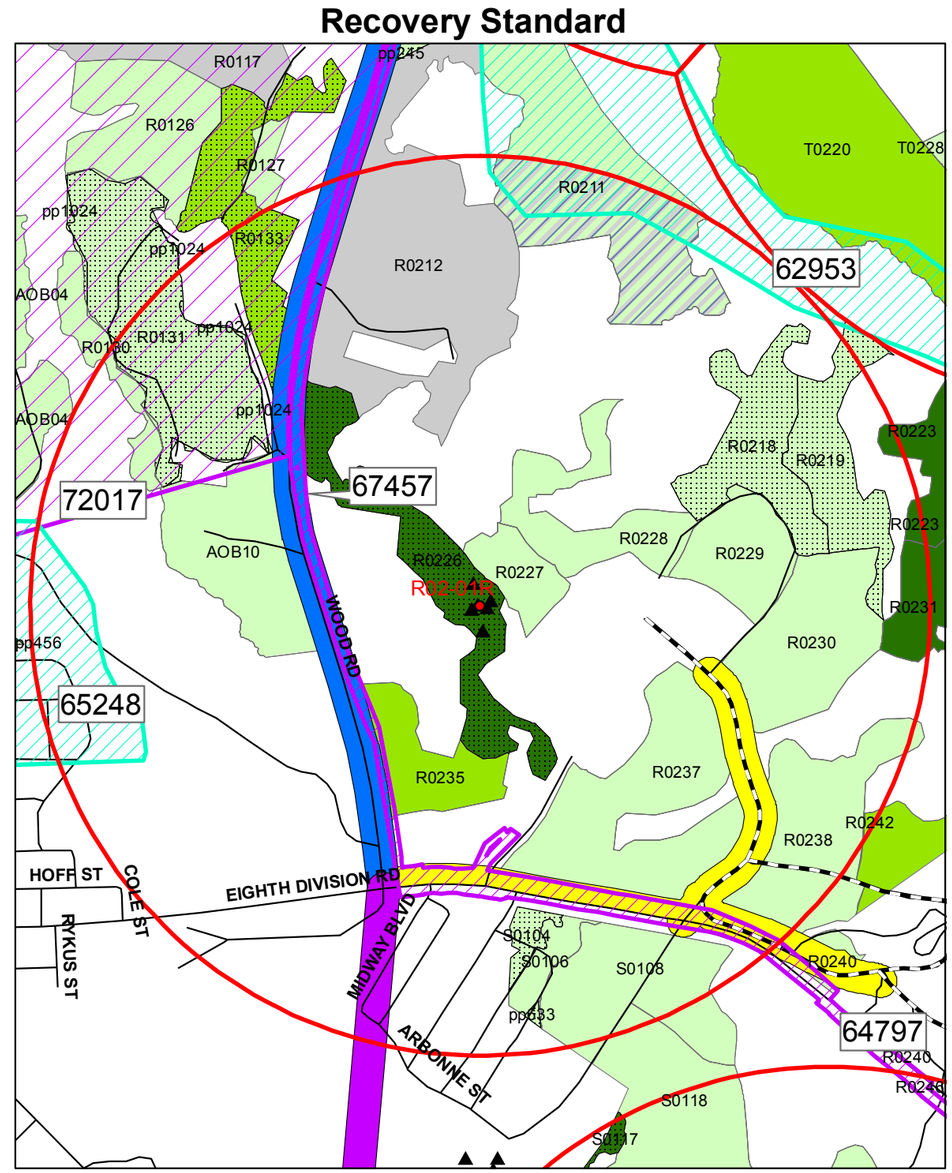


Appendix Figure I-141. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **Q02-04R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative A, Fort Benning, Georgia.

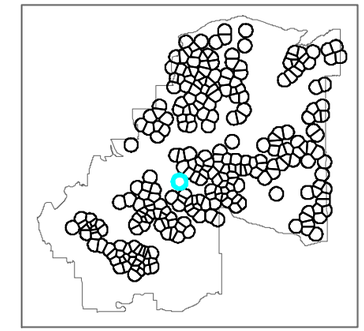


Appendix Figure I-142. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **Q02-04R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternative B, Fort Benning, Georgia.





1,700 850 0 1,700 Feet



Cluster Location

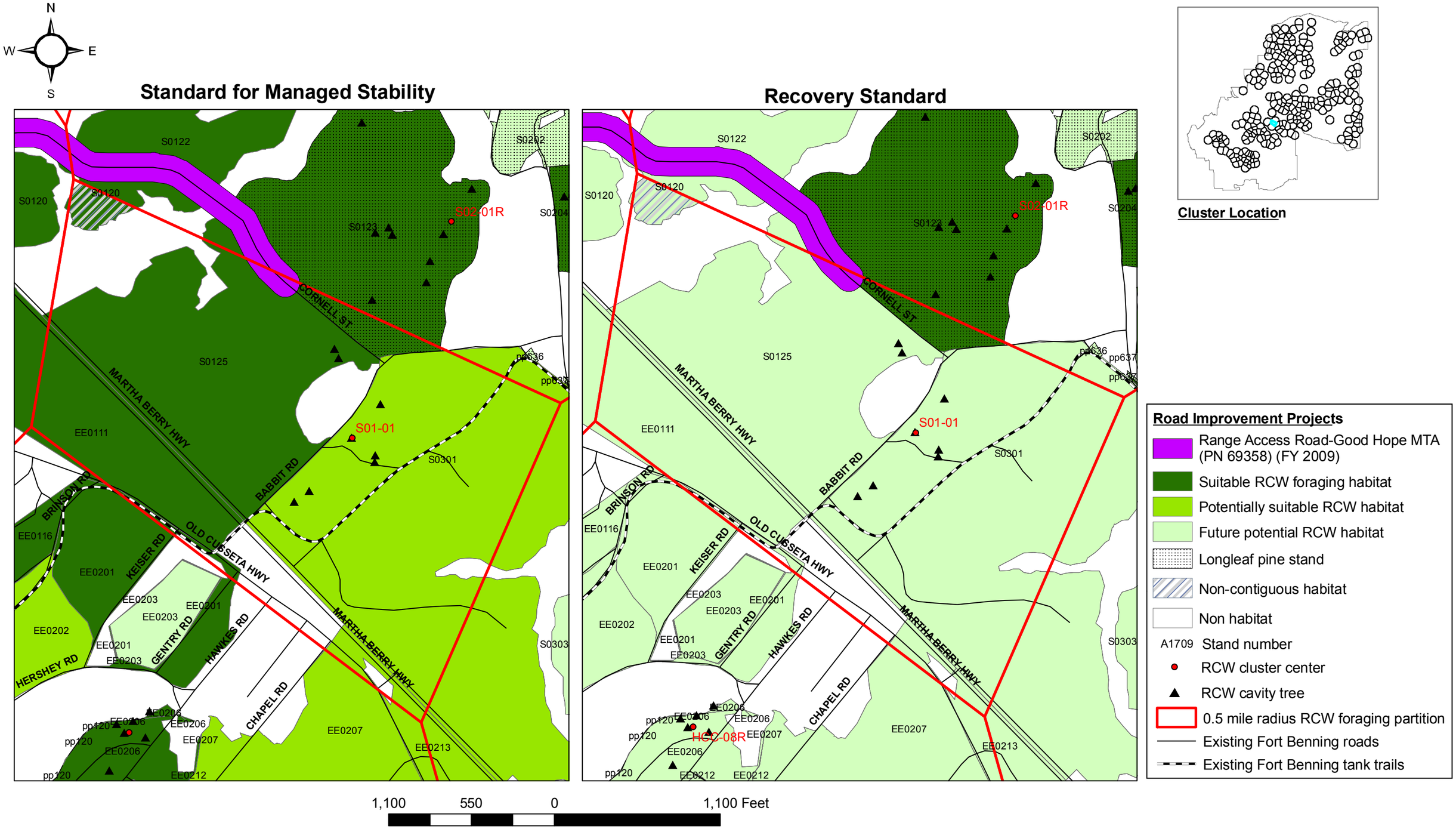
Cantonment Area Projects

Rail Loading Facility Expansion (PN 62953)
Drivers Training Course (PN 64797)
Physical Fitness Center, Harmony Church (PN 65248)
Infrastructure Support-Utilities (PN 67457)
Vehicle Recovery Course (PN 72017)

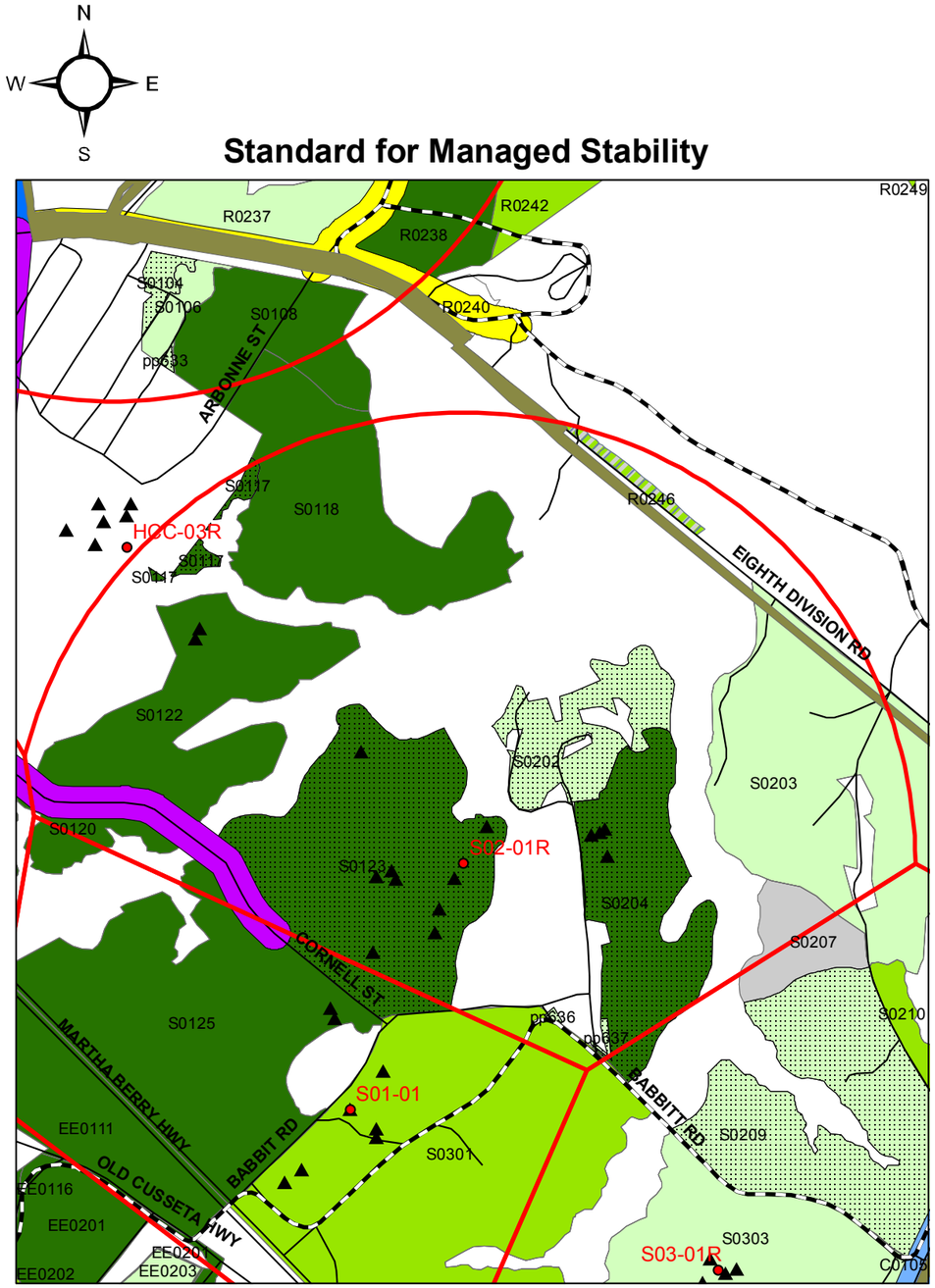
Build Year

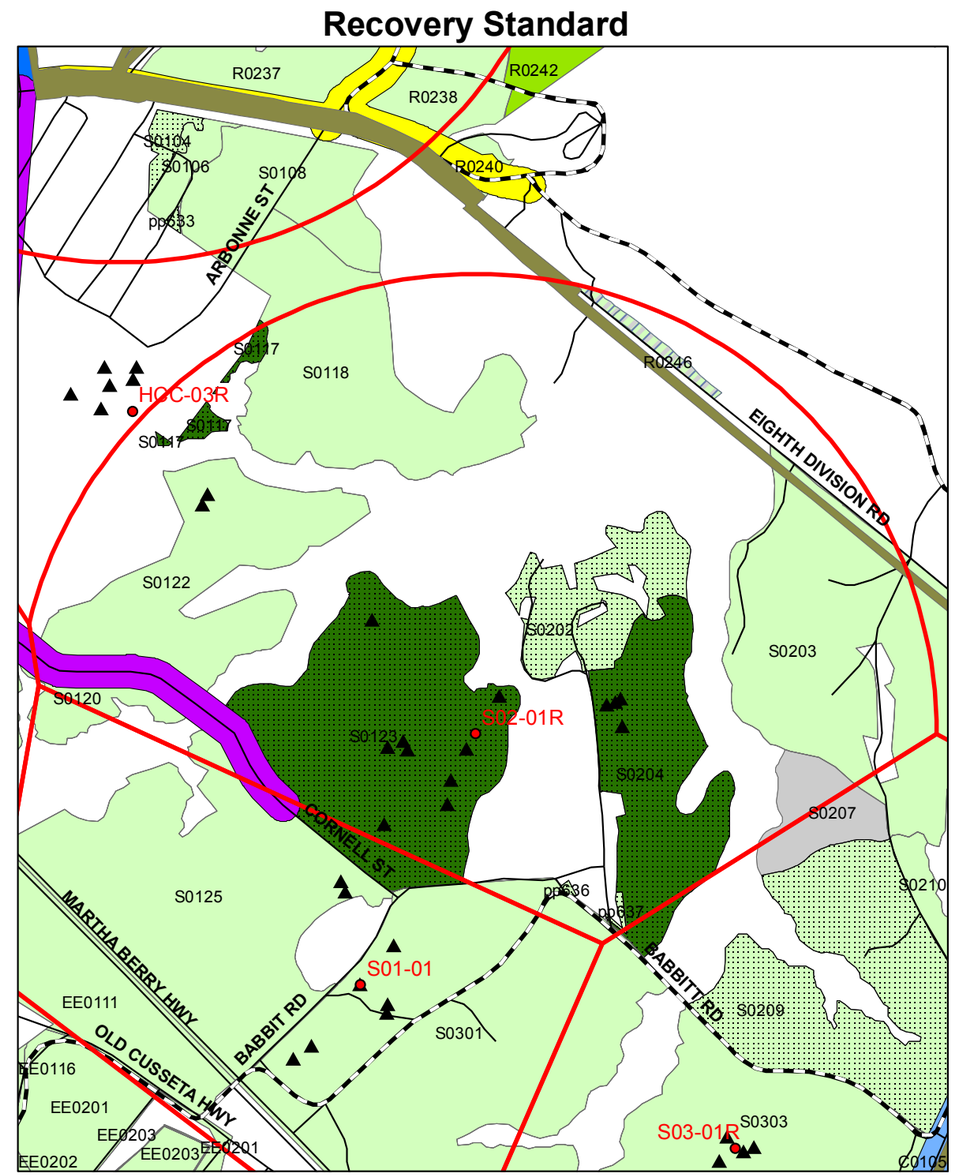
- 2009
- 2012
- Access Road for Drivers Training Area (PN 64797) (FY 2009)
- Range Access Road-Good Hope MTA (PN 69358) (FY 2010)
- Construct Training Area Roads (PN 65554) (FY 2009)
- Suitable RCW foraging habitat
- Potentially suitable RCW habitat
- Future potential RCW habitat
- Longleaf pine stand
- Non-contiguous habitat
- Non habitat (hardwood/ hardwood-pine stand)
- Non habitat
- A1709 Stand number
- RCW cluster center
- RCW cavity tree
- 0.5 mile radius RCW foraging partition
- Existing Fort Benning roads
- Existing Fort Benning tank trails

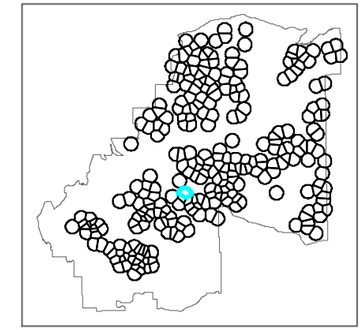
Appendix Figure I-143. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **R02-01R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



Appendix Figure I-144. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **S01-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.







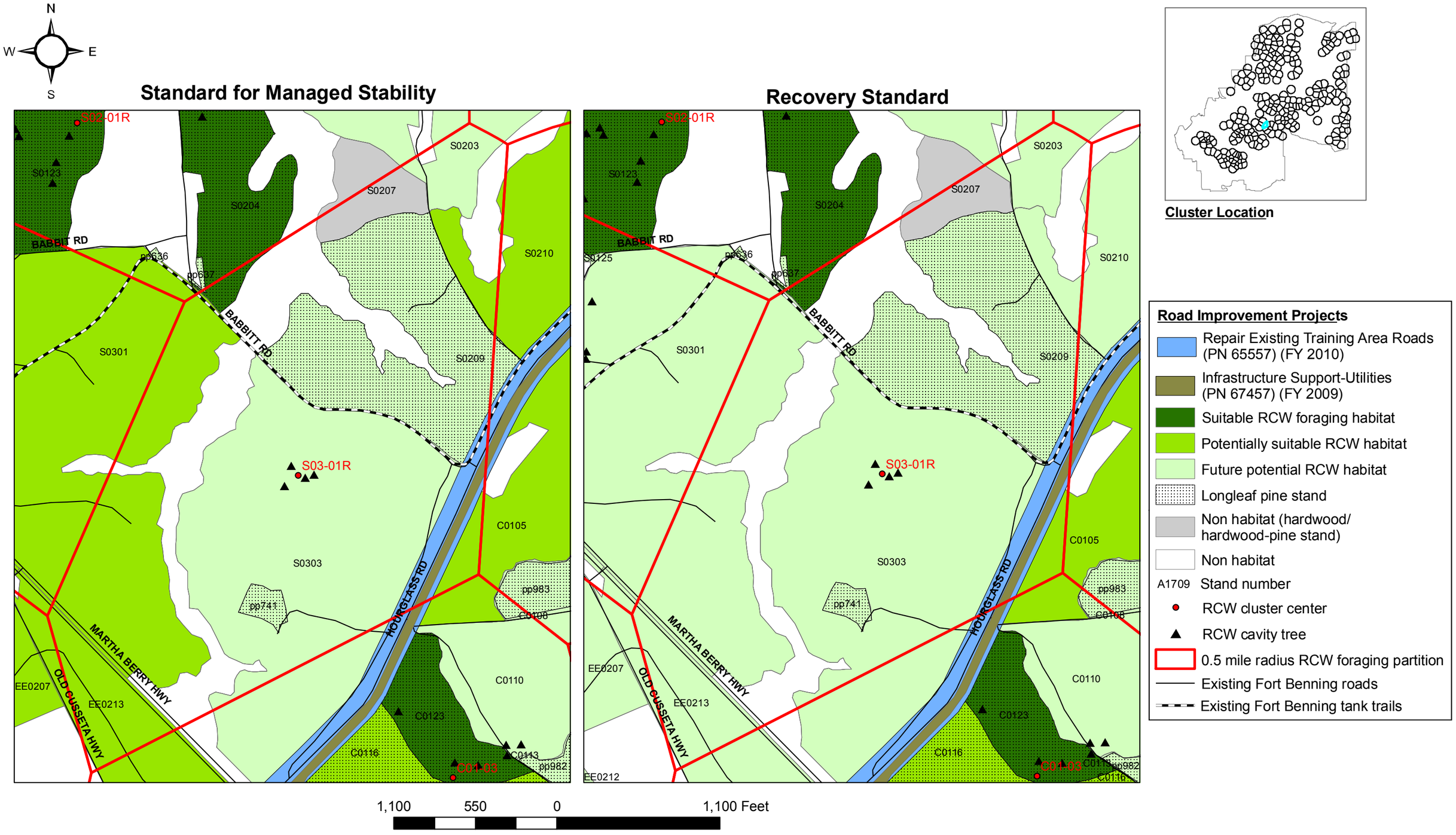
Cluster Location

Road Improvement Projects

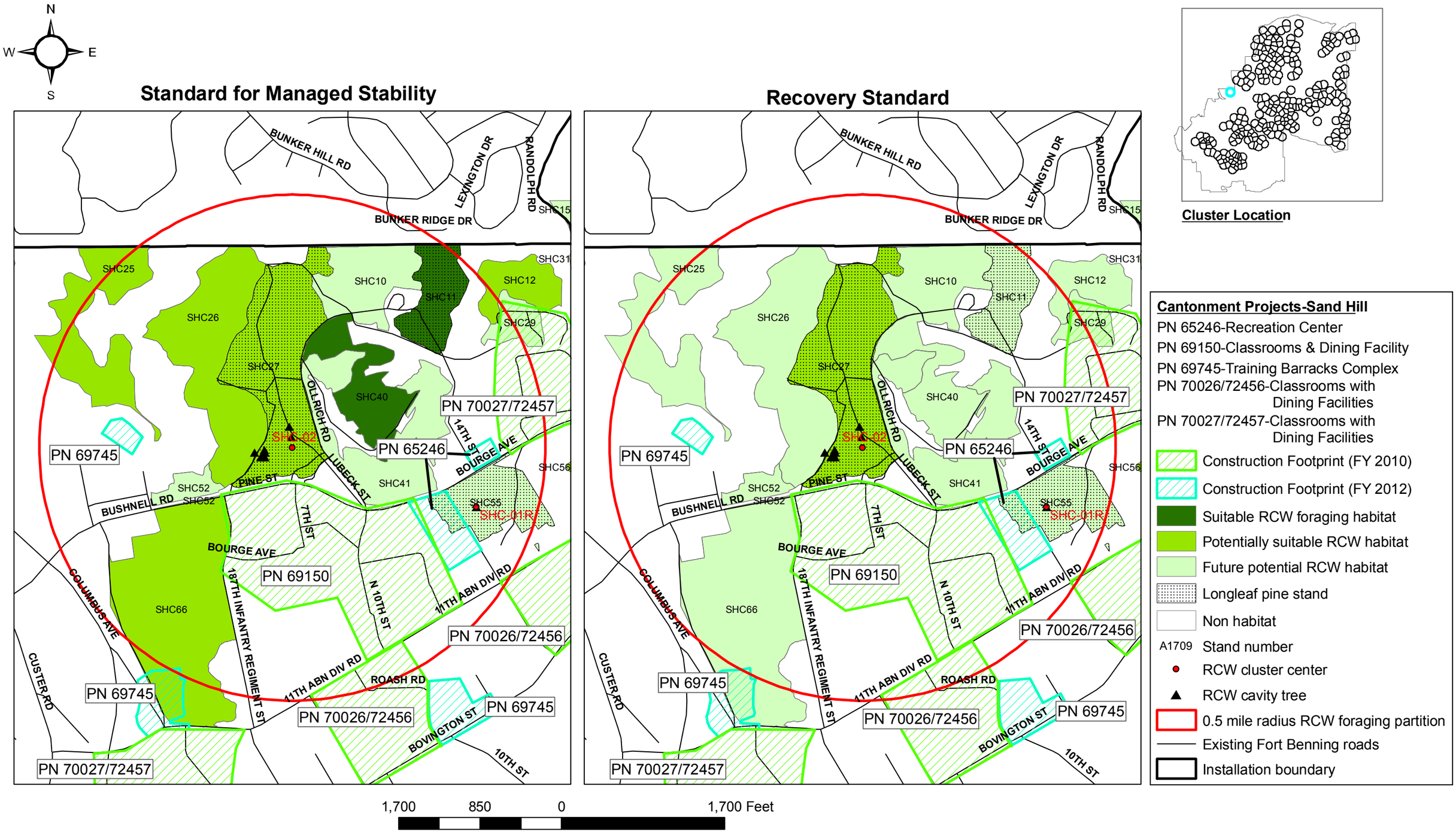
- Range Access Road-Good Hope MTA (PN 69358) (FY 2009)
- Drivers Training Area Access Road (PN 64797) (FY 2009)
- Infrastructure Support-Utilities (PN 67457) (FY 2009)
- Suitable RCW foraging habitat
- Potentially suitable RCW habitat
- Future potential RCW habitat
- Longleaf pine stand
- Non habitat (hardwood/ hardwood-pine stand)
- Non habitat
- A1709 Stand number
- RCW cluster center
- RCW cavity tree
- 0.5 mile radius RCW foraging partition
- Existing Fort Benning roads
- Existing Fort Benning tank trails

1,600 800 0 1,600 Feet

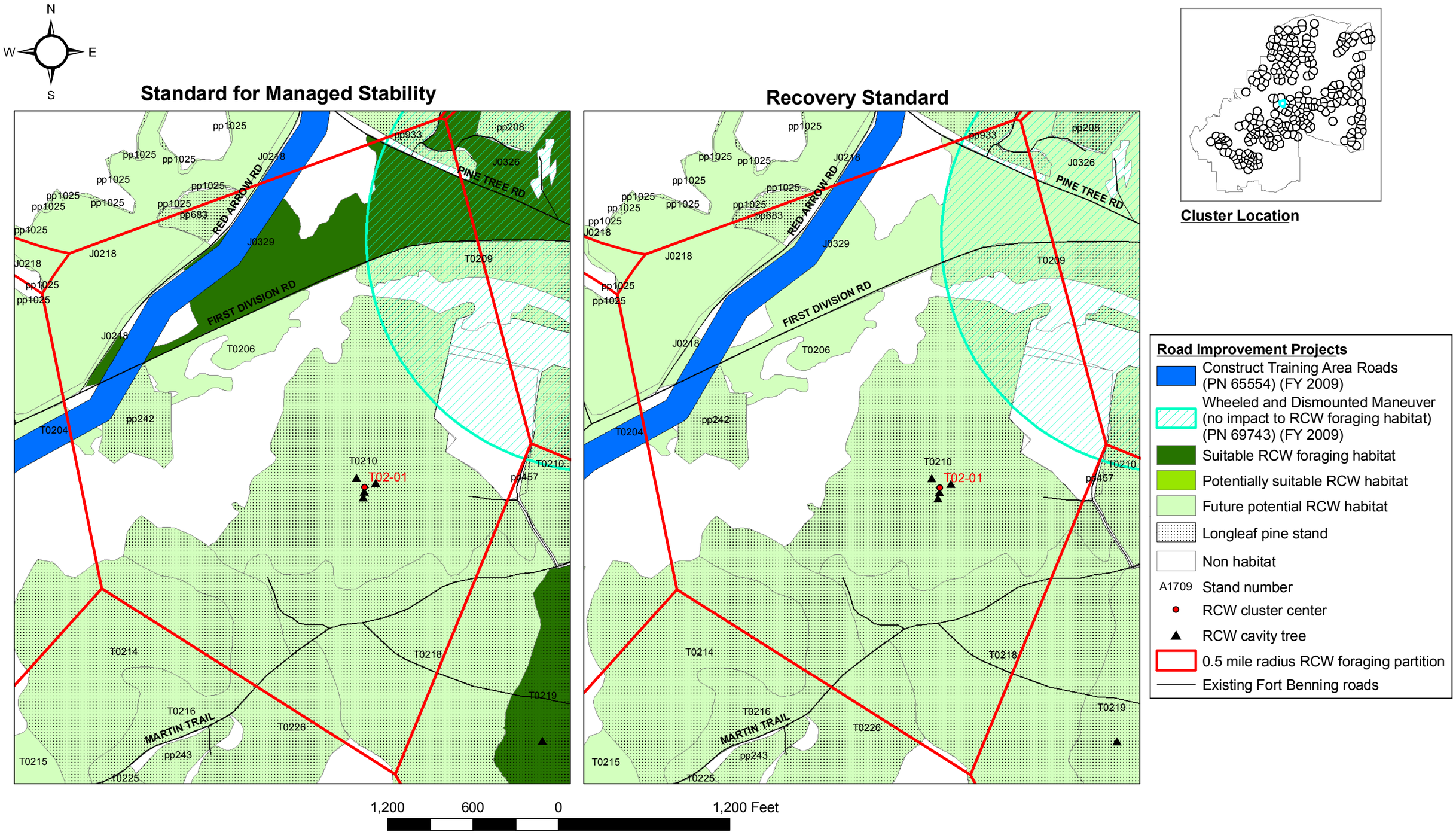
Appendix Figure I-145. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **S02-01R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



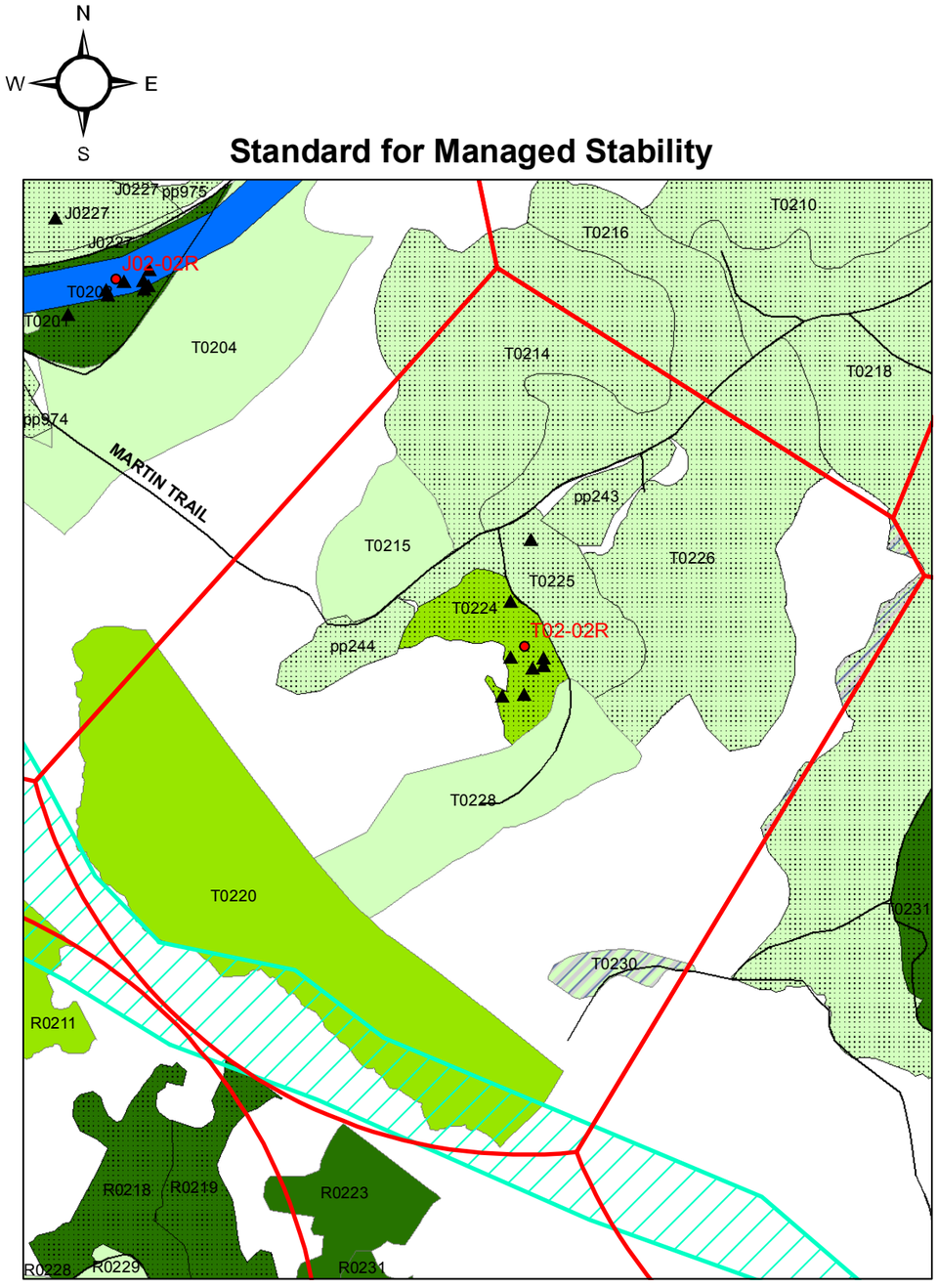
Appendix Figure I-146. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **S03-01R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.

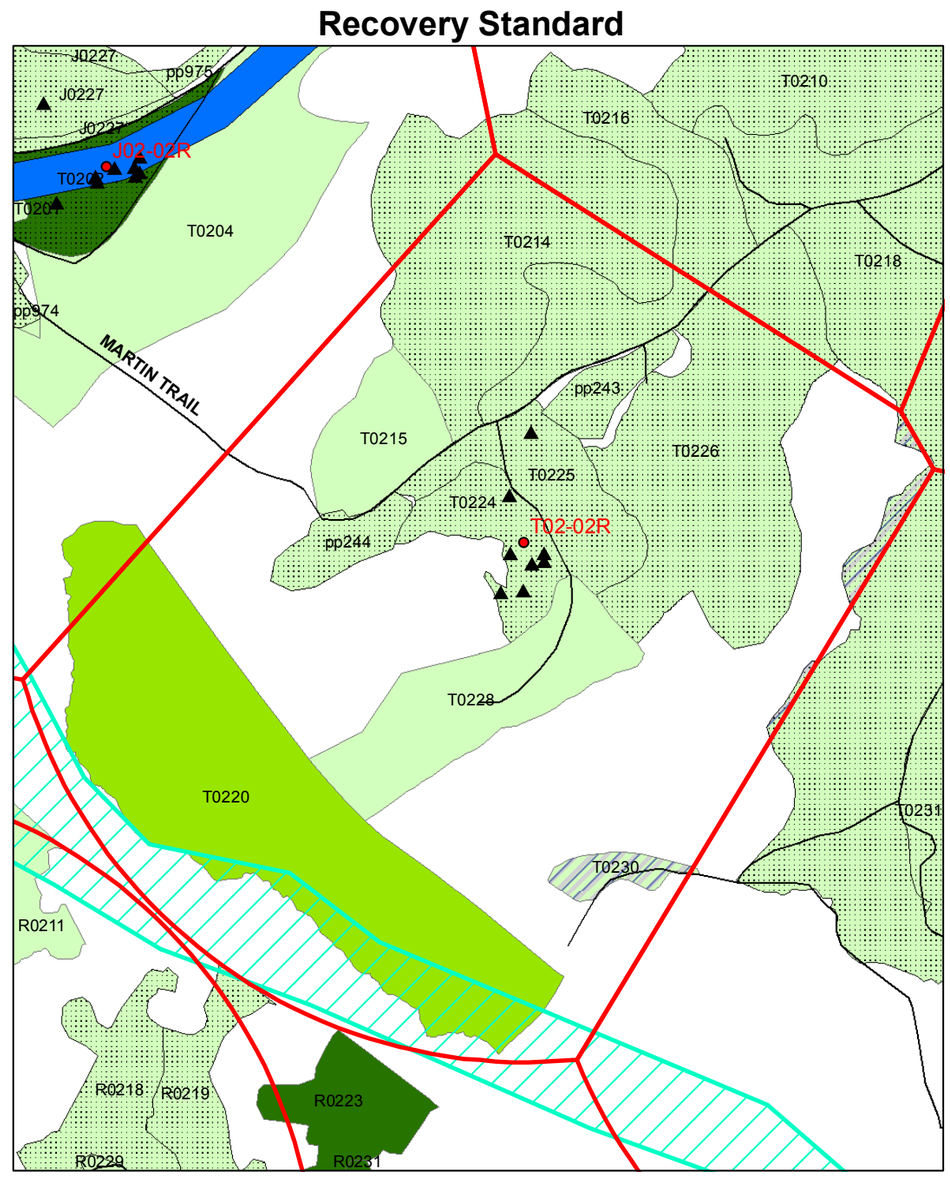


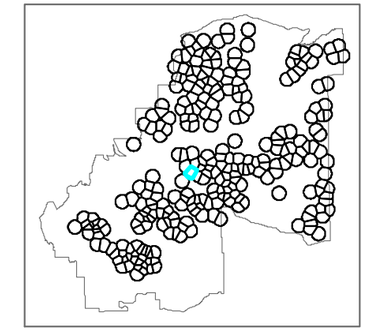
Appendix Figure I-147. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **SHC-02** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.



Appendix Figure I-148. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **T02-01** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.







Cluster Location

Cantonment Projects

- Construct Training Area Roads (PN 65554) (FY 2009)
- Rail Loading Facility Expansion (PN 62953) (FY 2012)
- Suitable RCW foraging habitat
- Potentially suitable RCW habitat
- Future potential RCW habitat
- Longleaf pine stand
- Non-contiguous habitat
- Non habitat
- A1709 Stand number
- RCW cluster center
- RCW cavity tree
- 0.5 mile radius RCW foraging partition
- Existing Fort Benning roads

1,500 750 0 1,500 Feet

Appendix Figure I-149. Red-cockaded woodpecker (RCW) habitats within the 0.5 mile radius foraging partition for Cluster **T02-02R** using the Standard for Managed Stability and the Recovery Standard (USFWS 2003) for proposed Maneuver Center of Excellence projects, Alternatives A and B, Fort Benning, Georgia.

APPENDIX J

ENVIRONMENTAL TRAINING AT FORT BENNING MILITARY INSTALLATION

Environmental Training at Fort Benning Military Installation

The Environmental Management Division of Fort Benning's Directorate of Public Works conducts a variety of environmental training specific to the needs of this installation and circumstances found here. Most of this training is meant to enable installation personnel to comply with environmental laws and regulations such as The Endangered Species Act, The Resource Conservation and Recovery Act, and The Clean Water Act. The National Environmental Policy Act (NEPA) serves as the focal point for these legal drivers. NEPA combines the requirements of various laws into a unified system of documentation and administration. This legal compliance justifies the investment of funding and manpower in environmental training. Once established, the training can also inform students about the value of the resources being protected and promote good environmental stewardship.

Fort Benning hired a full-time Environmental Awareness Trainer June 1st, 1999. An Environmental Awareness Training Program was created to satisfy one of the "reasonable and prudent alternatives" specified by the US Fish and Wildlife Service's Biological Opinion regarding the recovery of the endangered red-cockaded woodpecker (RCW). The Program seeks to equip all Fort Benning's personnel with the knowledge required to succeed in their tasks without causing adverse environmental incidents. Audiences involved with field training exercises receive detailed information about the training restrictions and precautions required by the 1996 "Management Guidelines for the Red-cockaded Woodpecker on Army Installations."

In practice, most Soldiers training at Fort Benning do not make decisions that could result in serious environmental incidents. Therefore those few who do make such decisions have become our primary focus. Fort Benning offers a Senior Environmental Compliance Officer (SECO) Orientation to representatives of garrison directorates and brigade- or battalion-sized military units. The SECO is commonly a field-grade officer, usually the executive officer of such a unit. The SECOs advise their commanders on environmental issues and set environmental policy for their organization. The SECO Orientation is a four-hour class offered monthly. A class similar to the SECO orientation is now offered to Environmental Compliance Officers of smaller units, such as companies. The Garrison Commander's Environmental Quality Control Committee meeting, held quarterly, is frequently used to convey new environmental information to the installation's SECOs. Environmental awareness is also part of Fort Benning's First Sergeant / Commander Orientation, an every-other-month training for unit leaders new to this post. All of these leadership audiences are informed about the 1996 RCW guidelines. During calendar year 2005 such leadership classes were offered 23 times to a total of 199 people.

While unit leadership may fully support environmental compliance, poor decisions by people in the field can still result in environmental incidents. For example, digging in the wrong spot could lead to environmental damage and legal or financial consequences that could have been simply avoided by working in a different location. Mid-level unit leadership bears most of the practical responsibility for the kind of operations that can

threaten Fort Benning's natural resources. These personnel also risk the consequences of an adverse environmental incident. They deserve the information they need to make good decisions. For these reasons much of Fort Benning's environmental training is delivered in a train-the-trainer fashion. An environmental lesson, including a review of the 1996 RCW guidelines, has been included in The Army Instructor Training Course and the Range Safety Briefing, both held twice per month. During calendar year 2005 the Instructor Training class was offered 24 times and 628 people were trained. The Range Safety Briefing was conducted 25 times with a total of 1,515 people trained.

Within these units and organizations certain individuals have specific responsibilities that require specialized environmental training. Fort Benning's first environmental training was directed at Hazardous Waste Managers; an eight-hour training for these personnel is offered twice per month. Once trained, each Hazardous Waste Manager must complete a four-hour refresher training every year. Activity Coordinators have legal responsibility for preventing storm water runoff pollution; they also have to be trained once per year. Other personnel are taught how to properly use Fort Benning's Record of Environmental Consideration, a requirement of Army Regulation 200-2 and the National Environmental Policy Act.

It is sometimes appropriate to teach military units as a group. Fort Benning policy provides for environmental awareness training to units that are preparing to conduct field training exercises. Units visiting the installation for a short time also need environmental information to be able to avoid negative incidents. Such groups can be trained upon arrival, or can access much environmental awareness information on Fort Benning's internet site: https://www.infantry.army.mil/nature/

At this time the Army is placing increased emphasis on sustainability as a guiding management principal. Good stewardship of Fort Benning's natural resources will continue to be an essential component of sustaining this installation's various missions. Until now there have only been occasional opportunities to reach Fort Benning's residents and civilian employees. It remains to be seen what new opportunities for environmental training will become available through the new sustainability initiatives.

FORT BENNING'S ENVIRONMENTAL TRAINING

Audience	Training Event	Duration	Trained By	Scheduled By	Mandate	Notes
brigade / battalion-level Environmental Compliance Officers (appointed on orders)	Senior Environmental Compliance Officer (SECO) Orientation	four hours	DPW / EMD	DPW / EMD	• Army Reg. 200-1 • USAIS Policy Memo 200-1-13	• offered monthly • one time; no refresher • certificate provided
new Company Commanders and First Sergeants	First Sergeant / Commander Orientation	environmental segment (one hour)	DPW / EMD	DOT / QASFD	• USAIS Policy Memo 200-1-13	• offered every other month • one time; no refresher
company-level Environmental Compliance Officers (appointed on orders)	Company Env. Compliance Officer Workshop (CECOW)	four hours	DPW / EMD	DPW / EMD	• Army Rrg. 200-1 • USAIS Policy Memo 200-1-13	• offered monthly • one time; no refresher • certificate provided
Officers In Charge of ranges, Range Safety Officers	Range Safety Briefing	Env. Incident Reporting Lesson (45 minutes)	DPW / EMD	DOT / Range Division	• USAIS Policy Memo 200-1-13	• offered twice / month • renewed every 2 years
Army Instructors (in POI-driven Army courses)	The Army Instructor Training Course	Env. Considerations Statement Lesson (45 minutes)	DPW / EMD	DOT / QASFD	• TRADOC Reg 350-70 • USAIS Policy Memo 200-1-13	• offered twice / month • one-time; no refresher
Hazardous Waste Managers and Environmental Coordinators	Hazardous Waste Manager Training Course	eight hours	DPW / EMD	DPW / EMD	• Army Reg. 200-1 • FB Haz. Waste Mgt. Plan • USAIS Policy Memo 200-1-13 • RCRA, OSHA	• offered twice / month • annual refresher (4 hr.) • certificate provided
Activity Coordinators of industrial facilities (appointed on orders)	Storm Water Pollution Prevention Plan Training	four hours	DPW / EMD	DPW / EMD	• Army Reg. 200-1 • Clean Water Act	• offered monthly • annual refresher • certificate provided
personnel responsible for preparing FB Form 144-R (S-3 shop, etc.)	Environmental Documentation Training	four hours	DPW / EMD	DPW / EMD	• Army Reg. 200-2 • USAIS Policy Memo 200-1-13 • NEPA, OSHA	• offered monthly • one time; no refresher • certificate provided
resident / tenant unit members	educator visit or ECO instruction	EA lessons based on unit mission (30 min. each)	Educator or ECO	ECO	• USAIS Policy Memo 200-1-13	• should be repeated annually, prior to FTX
transient students of POI-driven Army courses	any lesson taught by a USAIS Instructor	Env. Considerations Statements (five minutes)	USAIS Instructors	varies by course	• TRADOC Reg 350-70 • USAIS Policy Memo 200-1-13	• instructors use standard statements presented in TAITC
transient students - WHINSEC	any lesson taught by a WHINSEC Instructor	Env. Considerations Statements (five minutes)	WHINSEC Instructors	varies by course	• TRADOC Reg 350-70 • USAIS Policy Memo 200-1-13	• Instructors view Spanish language video during Instructor Training.

APPENDIX K

FORT BENNING LAND MANAGEMENT PLAN

FORT BENNING LAND MANAGEMENT PLAN

Avoidance and minimization of impacts to RCW must be accomplished by a combination of institutional and engineering controls and the programming of adequate resources necessary to proactively manage the impacts of the MCOE. Fort Benning is developing a management system and plan along w/ the appropriate organizational structure that will proactively manage the impacts of Maneuver Center of Excellence (MCOE) training activities. This program is the Sustainable Range Program (SRP) which is implemented by the Army in accordance with Army Regulation 350-19.

The Sustainable Range Program includes two core programs, under the direction of the Range Division at Fort Benning. Those core programs are 1) the Range and Training Land Program (RTLP) and 2) the Integrated Training Area Management Program (ITAM).

1) Range and Training Land Program

Fort Benning's Range and Training Land Program (RTLP) provides for the central management, programming, and policy for modernization of Benning's ranges and their day-to-day operations. Objectives include:

- Integrate mission support, environmental stewardship, and economic feasibility and define procedures for determining range projects and training land requirements to support the MCOE's live-fire and maneuver training.
- Define the quality assurance and inspection milestones for range development projects and the standard operating procedures to safely operate military training ranges and support Commanders Mission Essential Task List and Army training strategies.
- Establish the procedures and means by which the Benning range infrastructure is managed and maintained on a daily basis in support of the training mission.

2) Integrated Training Area Management Program

The Integrated Training Area Management (ITAM) Program provides Benning's Range Officers with the capability to manage and maintain training land by integrating mission requirements with environmental requirements and sound land management practices. This requires understanding and balancing of Army training requirements and land management practices. The effective integration of stewardship principles into training land and conservation management practices ensures that Army lands remain viable to support future training and testing mission requirements.

Objectives include:

- Achieve optimal sustained use of lands for the execution of realistic training and testing by providing a sustainable core capability that balances usage, condition, and level of maintenance.

- Implement a management and decision-making process that integrates MCOE training and other mission requirements for land use with sound natural resources management.
- Advocate proactive conservation and land management practices by aligning Army training land management priorities with the Army training and readiness priorities.

The ITAM Program relies on its four components and integrated management from HQDA, MACOM, IMCOM down to the installation level to accomplish its mission. The four components are Training Requirements Integration (TRI); Range and Training Land Assessment (RTLA); Land Rehabilitation and Maintenance (LRAM); and Sustainable Range Awareness (SRA). These components, further discussed below, combine to provide the means to understand how the MCOE training requirements will impact land management practices, what the impact of training is on the land at Benning, how to mitigate and repair the impacts, and communicate the ITAM message to soldiers and the public. Geographic Information Systems (GIS) is a foundational support element that provides locational information that assists land managers in making their decisions.

Training Requirements Integration - TRI

TRI is the component of the Fort Benning ITAM Program that provides a decision support procedure that integrates training requirements with land management, training management, and natural and cultural resources management processes and data derived from RTLA and Army Conservation Program components. Army Training and Testing Area Carrying Capacity (ATTACC) is the standard methodology for estimating training land carrying capacity by relating training load, land condition, and land maintenance practices. HQDA uses ATTACC to estimate land maintenance requirements for the ITAM program and is integrating it into the Army's Training Resource Model. At Fort Benning the ATTAC methodology and its automated decision support tools are being integrated into their training land management systems and will be used in the TRI process. The integration of all requirements occurs through continuous consultation between the Directorate of Plans, Training, and Mobilization (DPTM), natural and cultural resources managers, and other environmental staff members, as appropriate. The Fort Benning Integrated Natural Resources Management Plan (INRMP) is developed and updated with TRI input and is an implementing document foundational to the TRI process. TRI supports range modernization project siting and training event scheduling and allocation.

The TRI function is managed by the Benning ITAM coordinator, with direct support from the Range and Training managers, and the RTLA and LRAM coordinators. TRI is further supported by the natural resources management and/or environmental staff and the Directorate of Public Works (DPW). In addition, TRI involves coordination with external agencies and Federal departments.

TRI achieves the "training-environmental" balance and interface that is key to ITAM and requires continuous interaction and coordination between Benning's operations/training staff and the natural resources management/environmental staff. This ensures wise land-use planning and management decisions that meet regulatory compliance and training activity requirements.

The goals for TRI are to:

- Ensure sustained accessibility to adequate training lands to support training to standards under realistic natural conditions
- Provide military trainers and land managers with the necessary technical and analytical information to --
    - Integrate doctrinally based training with land/environmental constraints
    - Quantify training land carrying capacity.

TRI supports Benning's requirements for environmentally sustainable training lands. TRI improves coordination and facilitates cooperation, decision-making, and allocation by providing uniform information regarding land conditions, trends, and any necessary modification of requirements. The TRI goals are achieved when training and environmental requirements are balanced in the decision-making process.

The TRI component has four objectives. Together the objectives and tasks provide the overall guidance for the management and execution of this component Benning's ITAM Program.

Objective 1: Integrate training requirements with training land management into a prioritized workplan, and execute requirements subject to availability of resources.

Objective 2: Optimize training land management decisions by coordinating mission requirements and land maintenance activities with training land carrying capacity.

Objective 3: Identify existing and projected training land resources and prioritized land use requirements.

Objective 4: Generate prioritized requirements for land rehabilitation, repair, and/or reconfiguration.

Range and Training Land Assessment Program - RTLA

The Benning Range and Training Land Assessment (RTLA) program focuses on sustaining doctrinal training. The mission statement is:

Inform the process of military land management to maximize the capability and sustainability of land to meet the Army training mission.

To accomplish this mission, Benning's RTLA program managers will inventory and monitor natural resource conditions and manage and analyze natural resource information. The results are pertinent to management of training lands from training area to installation scale and provide input to decisions that promote sustained and multiple uses on military lands. The RTLA program evaluates relationships between land use and condition through the collection of physical and biological resource data. Some RTLA projects are long term, while others are relatively short. Key to RTLA success is the evaluation of collected data. Analysis of these data drives program success.

Objectives will be defined, data collected and analyzed, managed, and reported in the RTLA program. A key program component is getting analyzed data to those that make management decisions. This requires developing an installation specific data center of natural resource knowledge, understanding potential issues, and presenting information clearly and effectively.

Data collection will encompass many formats, from field monitoring to historical photographs to remote sensing. Data sources vary from those collected on the installation to data available from other organizations and agencies.

Benning will document condition and change in high-use areas such as maneuver sites, bivouac areas, and firing points. That will provide trainers and natural resource managers with an understanding of potential site quality and the inputs for achieving and maintaining a desired level of site condition. Similarly, analysis of collected data may trigger LRAM projects for remediation of the area. This proactive approach will keep the expected and actual impacts of the MCOE within manageable levels.

Maintaining long-term site information will also aide Benning in addressing offsite investigations by the public and other agencies and to respond to assertions of poor land stewardship. Few other land users have the information and can document the affects of training as well as the Army. Pairing training history, environmental shifts, and off-site land condition, Benning will have the ability to successfully demonstrate its commitment to natural resources.

The core of the RTLA program is to provide the MCOE with training lands that are capable of meeting the doctrinal needs of training missions now and in the future.

RTLA Mission and Goals

Mission:

Inform the process of military land management to maximize the capability & sustainability of land to meet the Army training mission.

Goals:

Goal 1: Assess impacts of live training activities and recommend options for sustained usage.

Goal 2: Prioritize and assess land management activities external to training in order to maximize the capability, accessibility and availability of land to meet the training mission.

Goal 3: Participate in training land use planning (e.g. Range Master Plan, Installation Master Plan, NEPA, etc)

Land Rehabilitation and Maintenance – LRAM

LRAM is a key enabler for sustaining realistic training conditions and supporting personnel, weapons, vehicles, and the mission requirements for the units using the installation. It provides a preventive and corrective land rehabilitation and maintenance procedure to reduce the long-term impacts of training on an installation. It includes training area redesign and/or reconfiguration to meet training requirements.

LRAM uses technologies such as re-vegetation and erosion control techniques to maintain soils and vegetation required to support the military mission. Other engineering controls may include maneuver area hardening, siebert stakes, etc. These specifically designed efforts help installations maintain quality military training lands, minimize long-term costs associated with land rehabilitation and manage impacts to natural resources.

LRAM includes programming, planning, designing, and executing land rehabilitation, maintenance, and reconfiguration projects based on requirements and priorities identified in the TRI and RTLA components of ITAM.

The goals of the LRAM program are to:

- Sustain **long-term** training/testing missions on lands held under the stewardship of Fort Benning.
- Sustain the overall condition of installation lands to ensure **long-term** military viability of its installations.
- Coordinate **long-term** land maintenance plans with other real property management programs on the installation.
- Apply best management practices for design and execution of LRAM to ensure the rehabilitation, repair and maintenance results are commensurate with the applied resources.

The objectives of the LRAM program are as follows:

- Identify land maintenance requirements

- Identify project sites that require restoration, rehabilitation, or reconfiguration to improve access to training areas and increase duration of use
- Develop a scope of work for the projects that includes a site description, design, resources required and expected outcome
- Develop project prioritization lists based on RTLA data, GIS data, input from TRI, and other information available
- Execute projects as resources are made available
- Evaluate the effectiveness of the completed projects
- Ensure that completed projects receive adequate preventative maintenance
- Coordinate long-term land maintenance plans with other real property management programs on an installation.

To achieve LRAM objectives, Benning will identify and execute projects to either prevent or solve specific problems. For example, the loss of natural vegetation on a steep slope used for training maneuvers can increase the amount of soil erosion, affect the safe use of, and/or create a sediment build-up in or near a wetland. By combining re-vegetation with redesign of the training area, LRAM prevents recurrence of the problem.

Installations will coordinate with the range modernization planning team members to identify, plan, and execute approved LRAM projects.

Examples of typical tasks related to LRAM project execution are identifying potential project sites, developing project priorities; conducting project planning, coordination, and design; and executing projects.

Natural Resources Conservation Service (NRCS) Interagency Agreement for Land Rehabilitation and Maintenance Support. An interagency agreement between USAEC and the Natural Resources Conservation Service (NRCS) provides a tool that allows a wide range of support options for Land Rehabilitation and Maintenance (LRAM) and other programs to fund land maintenance projects at installations. One way to use the tool would be to transfer funds from the Department of the Army or a Major Command directly to NRCS national headquarters and earmarked for specific installations. These funds will be used to maintain or enhance training areas to allow for their continued availability for training. In virtually all cases this means the installation of erosion control systems designed to meet a particular need. The local NRCS field office, in close consultation with appropriate installation staff, will manage these LRAM projects to suit the needs of the installation. Check the Library for the Memorandum of Agreement between The US Army Environmental Center and the Natural Resources Conservation Service for Conduct of Natural Resources Conservation Activities on Lands Administered by the US Army.

Sustainable Range Awareness – SRA

Sustainable Range Awareness (SRA) is the component of the ITAM Program that provides a proactive means to develop and distribute educational materials to users of range and training land assets at Benning. Materials relate procedures that reduce the

potential for inflicting avoidable impacts on range and training land assets, including the local natural and cultural resources. ITAM SRA addresses specific environmental sensitivities at the installation level, to inform land users of restrictions and activities to avoid so as to prevent damage to natural and cultural resources.

The SRA component applies to soldiers, other services using Army lands, installation staff, other land users, and the public. The SRA component also includes efforts to inform environmental professionals of Army and installation mission and training activities.

The most common formats for SRA products include:

- Soldier Field Cards
- Leader/ Soldier Handbooks
- Posters/Photos
- News Articles
- Briefings
- Pamphlets/Brochures
- Web site/multi-media
- Maps and Overlays

The goals of Benning's SRA program would be to:

- Minimize resource damage by indoctrinating land users of how their activities impact the environment
- Instill a sense of pride and stewardship responsibility.

The SRA component has three objectives.

Objective 1: Educate land users of their environmental stewardship responsibilities. Successful management of training lands requires land users to have a clear understanding of the installation's mission(s).

Objective 2: Improve public relations through SRA. We must communicate our success at sustaining mission activities while preserving Army land. The installation PAO must be involved.

Objective 3: Conduct operational awareness for environmental professionals.

The full development and implementation of the Sustainable Range Program at Fort Benning is the key to proactively avoiding and minimizing impacts to the RCW and other natural resources. The SRP will, through sustainable design, development, operation and

maintenance of the range and training lands, allow the Maneuver Center of Excellence to **focus on providing effective training in an environmentally sensitive & sustainable manner.**