



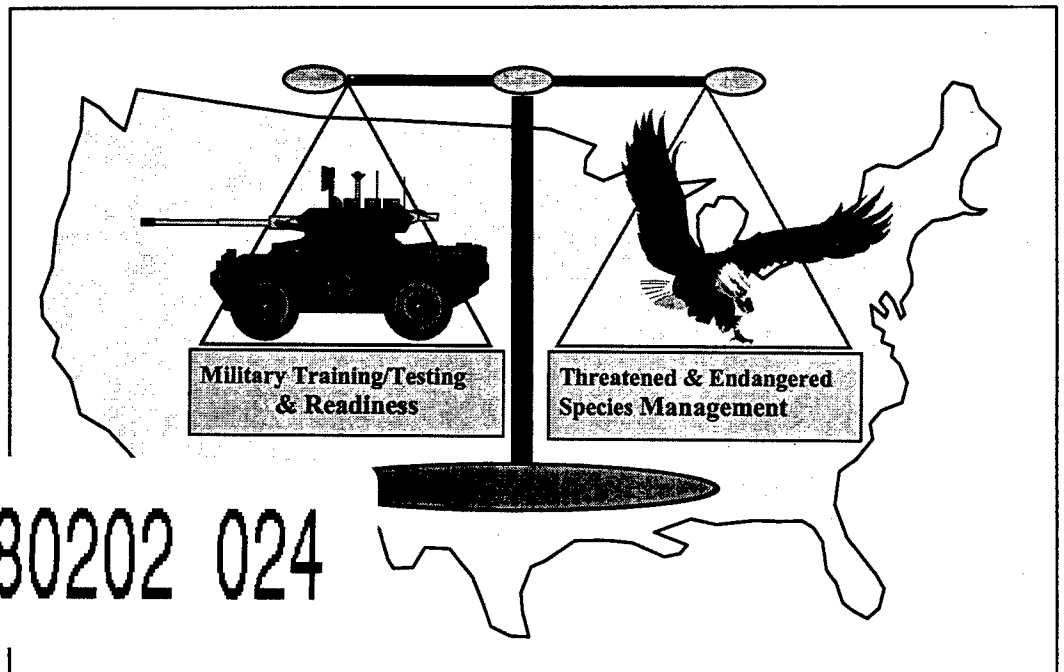
**US Army Corps  
of Engineers**

Construction Engineering  
Research Laboratories

USACERL Technical Report 98/18  
December 1997

# Threatened and Endangered Species on Army Installations: A MACOM Report

by  
Eric R. Schreiber, Rachel A. Shaw, and Alison Hill



In November of 1996, the Army conducted a survey of the Threatened and Endangered species residing on and contiguous to its lands. Some 201 installations responded to the survey. The information gathered was intended for use by Army Headquarters, Major Commands, and installations. This document is one of three technical reports based on the 1996 survey data.

Information in this report has been structured to provide an effective means of cross-referencing species information with installation information. Installation profiles, specifying MACOM, county,

point-of-contact, and a listing of all onsite and contiguous species by category, are presented for each of the 201 installations. The profiles indicate the status of the installation's species in the following topic areas: (1) critical habitat, (2) biological assessments, (3) endangered species management plans, (4) restrictions/impacts, and (5) expenditures. Detailed information on management topics are located in the appendix tables. The appendices also provide a quick way for installations to locate other installations with similar species and/or management concerns.

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## Foreword

This study was conducted for the U.S. Army Environmental Center (AEC) and the Office of the Directorate of Environmental Programs (ODEP), Assistant Chief of Staff for Installation Management (ACSIM) under Military Interdepartmental Purchase Request (MIPR) No. 3176, Work Unit ND6, "1996 TES Survey, Phase 1: Survey Development and Administration" and MIPR No. 2357, Work Unit KG7, "1996 TES Survey, Phase 2: Analysis and Reporting." The technical monitor was Scott Belfit, SFIM-AEC-EN.

The work was performed by the Natural Resource Assessment and Management Division (LL-N) of the Land Management Laboratory (LL), U.S. Army Construction Engineering Research Laboratories (USACERL). The USACERL principal investigator was Alison Hill. Dr. William D. Severinghaus is Operations Chief, CECER-LL. The USACERL technical editor was Gloria J. Wienke, Technical Resources.

COL James A. Walter is Commander and Dr. Michael J. O'Connor is Director of USACERL.

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# 1 Introduction

## Background

The Army is required to protect state and Federally listed Threatened and Endangered (T&E) species on its lands (Army Regulation [AR] 420-74 1989). This requirement can have a direct effect on land use and management. The presence of T&E species can: (1) limit land uses, including training activities, (2) result in direct conflicts with the military mission, (3) require added financial and personnel resources to take affirmative action on behalf of listed species, and (4) involve state and Federal wildlife agencies in Army land use decision-making (Tazik et al. 1991).

Even though the presence of T&E species can affect the military mission, the Army's stated vision for the conservation of T&E species is that:

The Army will be a national leader in proactive conservation of threatened and endangered species and the ecosystems upon which they depend as an integral part of our mission.

This vision statement clearly indicates the Army's leadership commitment in the protection of T&E species on military lands. However, with the continuing increase in the number of listed species, the Army will likely have additional species to contend with. To meet military objectives, the Army must first know what species occur on their lands, and then look at ways to lessen potential problems (Shaw and Hill 1996).

## Objectives

The objectives of this research were to:

- summarize available T&E species information from the 1996 TES survey,
- alert Headquarters, Department of the Army (HQDA) and Major Commands (MACOMs) to potential problems on Army lands, and
- provide an Army-wide source of comparative information.

## Approach

The project consisted of two phases. Phase One was to develop a T&E survey. Phase Two was to administer the survey and conduct analysis and reporting.

**Phase One: Development of the Survey Instrument.** The 10-month development process required substantial collaboration with the T&E Species Users Group, an advisory group consisting of members of ODEP, Army Major Commands (MACOMs), AEC, and the Office of the Deputy Chief of Staff for Operations and Plans (ODSCOP), and consultation with University of Illinois survey research experts. This phase required soliciting ideas and questions, facilitating discussions about the wording of the questions, coordinating the review of revisions, and pretesting by potential survey recipients.

**Phase Two: Administration, Analysis, and Reporting.** In November 1996, ODEP directed the MACOM Commanders to distribute the survey instructions and instrument, a glossary, a listing of species from the Federal Register, and a reference listing of species reported previously on installations. The packet was forwarded to installations, with a 45-day suspense. An accompanying memorandum suggested installation recipients assemble a team to fill out the survey. These key individuals might included personnel from the Directorate of Public Works (DPW) or equivalent, the Directorate of Plans and Training Mission (DPTM) or equivalent, and the Judge Advocate General (JAG) or compliance office that handle T&E issues.

A survey package went to all Army installations with the potential for T&E species. Installations were asked about their Federally Threatened, Endangered, Proposed, and Candidate (TEPC) species known to reside on, or contiguous to, the installation. The survey consisted of approximately 50 questions. Questions asked for: (1) T&E management and compliance concerns, (2) training and testing restrictions/impacts due to T&E species, and (3) points-of-contact. The results, from a total of 201 installations Army-wide, are included in this report.

In February 1997, the TES User's Group met to provide input into the priorities for data analysis and data summaries. A preliminary report went to major stakeholders prior to Congressional hearings.

## Scope

This report provides the 1996 overview of the T&E species on Army installations and includes data from 10 MACOMS.

## Mode of Technology Transfer

Headquarters, Department of the Army (HQDA) and MACOMS were provided raw data resulting from this survey. This report provides MACOMS with summary TES information for future reference.

## Updating of Data

The data is current as of January 10, 1997. Any incorrect species, misidentifications, and new species not known at the time of the survey administration, will not be added, but will become part of the 1997 survey.

This report is the second of a series of three, with the intended audience being the MACOMs. The first report, titled *The 1996 Survey of Threatened and Endangered Species on Army Lands: A Summary Report* (Shaw, Schreiber, and Hill 1997), provides HQDA and MACOM summaries based on survey responses. The third report, titled *Installation Summaries from the 1996 Survey of Threatened and Endangered Species on Army Lands* (Schreiber et al. 1997), provides the installation with species summaries, and includes information on critical habitat and endangered species management plans (ESMPs).

## 2 Definitions

Several acronyms and terms are used consistently throughout this document. These terms are defined below:

**Biological Assessment** — Biological Assessments includes both biological evaluations and biological assessments. An assessment is not complete until the findings are coordinated with and concurred by the USFWS or NMFS.

**Category** — Species are divided in the following categories:

AMP = amphibian	BIR = bird	CLA = clam
CRU = crustacean	FIS = fish	INS = insect
MAM = mammal	PLA = plant	REP = reptile
SNA = snail	INV = other invertebrate	

**Distinct Species** — The term distinct species is synonymous with the term unique species. For example, the bald eagle is considered as one distinct or unique species, regardless of the number of installations on which it occurs. Distinct species may be calculated Army-wide, or within individual MACOMs. In either case, a particular species is counted only once.

- E - Federally Endangered
- T - Federally Threatened
- PE - Federally Proposed as Endangered
- PT - Federally Proposed as Threatened
- C - Candidate species for Federal listing

**Impact** — An impact is the effect a training or testing restriction has on the ability of a unit to train tasks to doctrinal standard or the alterations that a unit must accomplish to overcome the training restrictions in order to conduct a training event on the installation.

**Installation** — The term installation includes active military installations, state National Guard Bureau (NGB) offices, NGB training sites, and regional support centers for the Army Reserve. Analyses in this report do not make a distinction between these types of locations. In some cases it was difficult to define "installation" data because



some NGB state offices, for example, reported on a state-wide basis, while others reported for each training site in the state.

**Occurrence** — An occurrence is a record of a species. A record refers to each time a species is recorded as being present on an installation and is also synonymous with the term record in terms of the database. For example, if a bald eagle occurs on five installations it is recorded as five occurrences.

**Restriction** — A restriction is defined as any limitation on mission training events or testing activities due to a legally binding requirement to protect the species. Examples of such requirements include Biological Opinions, endangered species management plans (ESMPs), memoranda of agreements or understanding, conservation agreements, and installation policies. Each restriction record relates to one restriction for one species on a particular installation. Multiple restrictions for a given species are possible.

**S/A** — Similarity of Appearance. Certain species that closely resemble T&E species may be given the Federal status of the species they resemble. Similarity of appearance species are denoted with a T(S/A) or E(S/A). However, no distinction is made between S/A species and other T&E species.

#### Species Location

*Both* — Species known to both onsite and contiguous to the installation.

*Contiguous* — Species known to occupy, or otherwise use, habitat adjacent to an installation, which may be affected by installation military activities and land management practices.

*Onsite* — Species that have been documented within the boundaries of the installation.

**T&E** — The term T&E includes only Threatened and Endangered species. These two statuses include S/A species.

**TEP** — The term TEP includes all Federally Threatened, Endangered, Proposed Threatened, and Proposed Endangered species on Army lands but does not include Candidate species.

**TEPC** — The term TEPC includes all Federally Threatened, Endangered, Proposed Threatened, Proposed Endangered, and Candidate species on Army lands. Subsequent analyses that use the term TEPC refer to the status of all species.

### 3 Using the Information

Each of the 201 responding installations has a profile page, specifying MACOM, county, point-of-contact, and a listing of all onsite and contiguous species, by category. The profile gives the status of the installation's species in the following topic areas:

- Critical Habitat
- Biological Assessments (only Jeopardy Opinions will be stated)
- Endangered Species Management Plans (ESMPs)
- Restrictions/Impacts
- Total Expenditures

All pertinent information could not be included in the profile page, so in some cases the reader must refer to corresponding Appendix tables to obtain more complete information. Some installations will have species with one or more topic areas, while others may have no designated topic areas. The appendix topic areas include the following:

- Appendix A – Species list with installations
- Appendix B – Critical Habitat
- Appendix C – Biological Assessments
- Appendix D – Endangered Species Management Plans
- Appendix E – Restrictions/Impacts
- Appendix F – Total Expenditures

The appendices are presented two ways. Appendix B-1, for example focuses on the species; Appendix B-2 focuses on the installation. By presenting information both ways, the reader can easily cross-reference the information from each of the major topic areas. This provides an easy mechanism for comparing installations and obtaining a point-of-contact for gathering additional information on species of interest.

For an example on effectively using this document, follow an excerpt on the Vernal Pool Fairy Shrimp (*Branchinecta lynchi*) from the Fort Hunter Liggett profile page.

---

**Fort Hunter Liggett**

USARC

**County:** Monterey, California**POC:** Liz Clark

P.O. Box 7090, Fort Hunter Liggett, CA 93928-7090

Attn: AFRC-EMH-ENV (408) 386-2791

**ONSITE****Amphibians**Arroyo Southwestern Toad, *Bufo microscaphus californicus* (E) ESMP Expenditures**Crustaceans**Vernal Pool Fairy Shrimp, *Branchinecta lynchi* (T) ESMP Restrictions Expenditures**Plants**Purple Amole, *Chlorogalium purpureum var. purpureum* (C) Restrictions

---

The Shrimp has information on three major topic areas: ESMPs, Restrictions, and Expenditures. To get more details on these topic areas, the reader should refer to the Appendix tables. For example, to determine the ESMP status of the Shrimp (i.e., completed or in preparation), and see if other installations have this particular species, the reader must refer to Appendix D-1. If the reader is interested in knowing if Hunter Liggett has other species for which an ESMP was done, refer to Appendix D-2. By referring to Appendix D-2, the reader can see that three additional species also had an ESMP that was completed or in preparation.

The same logic is applied when looking up information for Critical Habitat (Appendix B-1 and B-2), Biological Assessments (Appendix C-1 and C-2), Restrictions (Appendix E), and Expenditures (Appendix F-1 and F-2).

## 4 Summary Information

### Installation Information

A total of 201 installations responded to the 1996 T&E species survey. Twenty-two percent of the surveys were returned by the suspense date, mid-January 1997. The remainder of the surveys were returned within 1 month of suspense date (Shaw, Schreiber, and Hill 1997). Of the 201 installations, 105 (52%) have one or more TEPC species, 84 (42%) have no TEPC species, and 12 (6%) have only contiguous species. The 105 installations with one or more onsite TEPC species included 100 installations (95%) with distinct onsite T&E species (Schreiber et al. 1997). Ten MACOMs were represented, two of which (NGB and AMC) accounted for 64% of the responses (Shaw, Schreiber, and Hill 1997).

### Species Information

Twenty-five percent of species reported by the installations were not within the scope of the survey; that is, they were not TEPC species as defined by the current Federal Register, and thus were removed.

A total of 248 distinct TEPC species (523 occurrences) were identified on 117 (58%)<sup>1</sup> of the installations surveyed. The 248 TEPC species include: 147 Onsite and Contiguous species, 54 Onsite<sup>2</sup> species, and 47 Contiguous species. Divided by Federal Status, there were: 159 Endangered, 35 Threatened, 31 Proposed Endangered, 2 Proposed Threatened, and 21 Candidate species (Figure 1). By Category, there were: 134 plants, 38 birds, 17 snails, 13 reptiles, 12 fish and mammals, 8 clams, 7 insects, 5 amphibians, and 2 crustaceans (Figure 2) (see Shaw, Schreiber, and Hill 1997 for more detail).

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<sup>1</sup> This number includes 105 installations with onsite TEPC species and 12 installations with strictly contiguous TEPC species.

<sup>2</sup> It should be noted that some species listed as onsite may also occur contiguous to the installation.

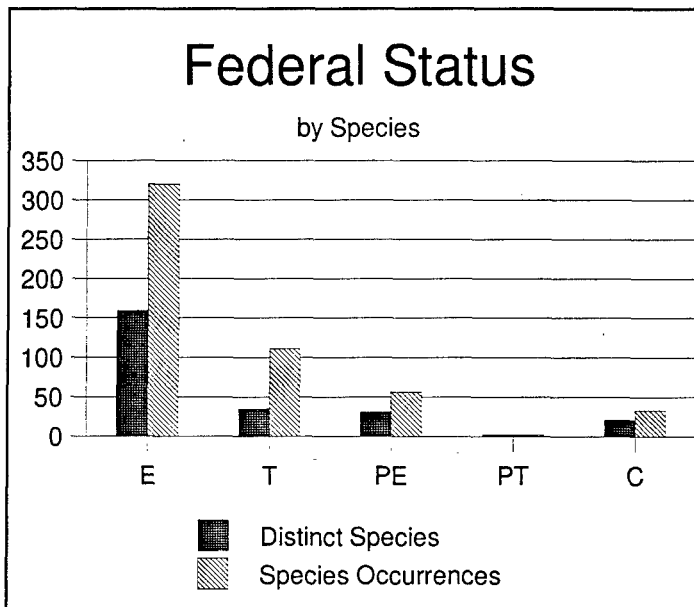


Figure 1. Federal status, by distinct species and species occurrences, for all species combined.

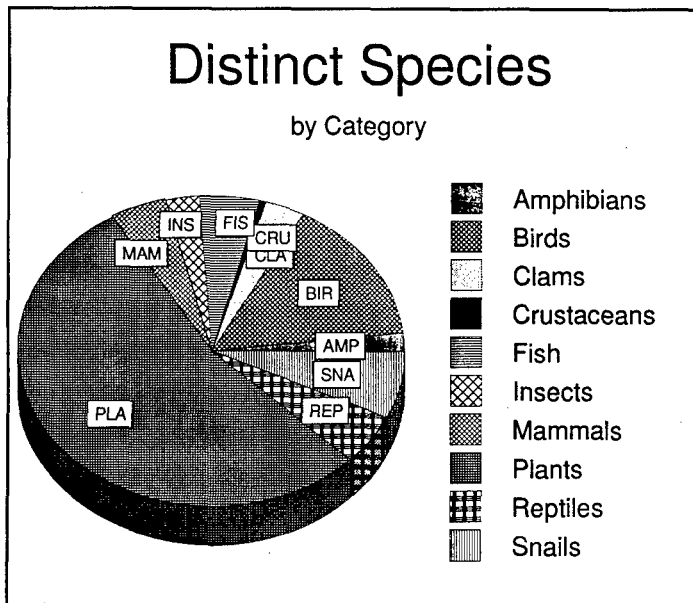


Figure 2. Distinct species, by category, for all species combined.

Of the 199 TEPC species that were listed as occurring Onsite, 63% were Endangered, 15% were Proposed Endangered, 13% were Threatened, 9% were Candidates, and <1% were Proposed Threatened. Divided by category, 58% of the Onsite TEPC species were plants, 17% were birds, 7% were snails, 5% were mammals, 4% were reptiles, 3% were insects and fish, 2% were amphibians, 1% or less were crustaceans and clams. There were also 90 TEPC species listed as occurring Contiguous to the installation: 67% were Endangered, 16% were Threatened, 9% were Candidates, 8% were Proposed Endangered, and 1% were Proposed Threatened. Divided by category, 37% of the Contiguous TEPC species were plants, 24% were birds, 10% were fish, 8% were clams, 6% were mammals and reptiles, 4% were snails, 3% were insects, and 2% were amphibians.

## Critical Habitat

Installations reported 21 distinct T&E species (32 occurrences) as having critical habitat (Schreiber et al. 1997). However, when checked against the Federal Register, only 5 species (6 occurrences) were confirmed as having critical habitat.<sup>3</sup> Confirmed species with critical habitat include the Mexican spotted owl (Camp Navajo and Fort Huachuca), northern spotted owl (Fort Lewis), palila (Pohakuloa), desert tortoise (Fort Irwin), and the Oregon silverspot butterfly (Camp Rilea).

## Assessments, Findings, and Opinions

### *Biological Assessments*

The 323 onsite T&E species occurrences<sup>4</sup> include: 215 occurrences with no assessments, 96 occurrences with a completed assessment, and 12 occurrences with no response. The 96 onsite T&E species occurrences with assessments are actually 55 distinct species, and account for 309 individual assessments. However, 145 of the total 309 assessments (47%) were from four species on Fort Bragg. In addition to onsite T&E species occurrences, there were also 107 contiguous T&E species occurrences. Contiguous species occurrences include: 88 occurrences with no assessments and 19 occurrences with a completed assessment. The 19 contiguous T&E species occurrences with assessments are actually 16 distinct species, and account for 21 individual assessments.

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<sup>3</sup> Unconfirmed records were changed in the database to reflect the status reported in the Federal Register.

<sup>4</sup> Two distinct species, the Northern Spotted Owl (Fort Lewis) and the Florida Panther (Camp Blanding) were included as onsite. Therefore a total of 323 species occurrences are listed as occurring onsite for this report versus 321 species occurrences in Shaw, Schreiber, and Hill 1997. This will also lead to minor discrepancies in the number of biological assessments, findings, biological opinions, endangered species management plans, expenditures, and restrictions when referring back to Shaw, Schreiber, and Hill 1997.

## *Findings*

### May affect/No affect

The Army completed 309 individual assessments for onsite T&E species; of these, 71% resulted in a "no affect" finding, 18% resulted in a "may affect" finding. One installation, Fort Bragg, reported 47% of the 309 individual assessments and 20% of the 56 "may affect" findings. There were also 35 assessments for which installations did not provide information on no affect/may affect determinations. The Army also completed 21 individual assessments for contiguous T&E species; of these, 52% resulted in a "no affect" finding, and 10% resulted in a "may affect" finding. There were also 6 assessments for which the installation did not provide information on no affect/may affect determinations.

Both positive and negative effects of a planned action apply when making a "may affect" determination requiring the initiation of formal consultation with the FWS. Some respondents indicated confusion on the time frame of this question. Since the time frame was not stated, it was unclear whether the question asked about fiscal year 1996, calendar year 1996, recent history, or as far back as the installations records go. The phrasing indicated an interest in knowing about assessments used to "assist the consultation process with the FWS," so many respondents used this qualifier in determining the number of assessments.

## *Biological Opinions*

### Jeopardy/Non-Jeopardy

Of the Army's 96 formal consultations for onsite T&E species, 79% resulted in non-jeopardy biological opinions, and 21% resulted in jeopardy biological opinions. The 20 formal consultations that resulted in jeopardy biological opinions were from 9 distinct species and occurred on 7 installations. The Army also had 1 formal consultation for a contiguous species, the red-cockaded woodpecker, which occurred on Camp Beauregard.

## **Endangered Species Management Plans**

Of the 393 onsite Federal TEPC species occurrences, only 371 were considered "eligible" to have an endangered species management plan (ESMP). The term "eligible" refers to Federally Threatened, Endangered, and Proposed (TEP) species, and assumes that Candidate species should not have an ESMP. Of the 371 "eligible" onsite TEP species occurrences, 59% have an ESMP that is currently under preparation or in process, 28%

have not yet had an ESMP initiated, 10% have a completed ESMP, and 4% had no response. The Army also has 46 "eligible" contiguous TEP species occurrences: 87% have an ESMP that is currently under preparation or in process, and 13% have a completed ESMP.

## **Total Expenditures**

A total of \$9,476K was spent for onsite T&E species (\$8,270K for Endangered species and \$1,206K for Threatened species). Divided by category, expenditures for onsite species include: \$7,503K for birds, \$618K for plants, \$506K for reptiles, \$459K for mammals, \$280K for insects, \$97K for crustaceans, \$10K for fish, \$3K for amphibians, and <\$1K for clams (Shaw, Schreiber, and Hill 1997). An additional \$130K was spent for contiguous T&E species (\$113K for Endangered species and \$17K for Threatened species). Divided by category, expenditures for contiguous species included: \$81K for birds, \$31K for mammals, \$10K for fish, and \$8K for plants (Shaw, Schreiber, and Hill 1997).

Expenditures are reportable to the FWS according to its "Supplemental Guidance for Reporting Expenditures for the Conservation of Endangered and Threatened Species."

## **Restrictions**

The Army reported a total of 45 onsite and contiguous TEPC species (230 records) with restrictions (Shaw, Schreiber, and Hill 1997). Of the 230 restriction records, 225 were for onsite species, while 5 applied to contiguous only species. The majority of these restrictions, 87%, applied to training, while 13% applied to testing, and <1% did not have a designation.

Fort Bragg reported five species causing restrictions, but failed to provide additional information about the restrictions. Four of these species were not reported by other installations as causing restrictions, so if these were added, the total would be 49 species. In Fiscal Year 1995, Fort Bragg reported a total of 55 restriction records, 76% of which were due to the red-cockaded woodpecker, and 24% from unspecified Endangered plants (Shaw, Schreiber, and Hill 1997). Complete data from Fort Bragg for Fiscal Year 1996 would undoubtedly increase the restrictions results.



## 5 Installation Profiles

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### Aahoaka and Wailua River LTA, HI-ARNG

NGB

**County:** Honolulu, Hawaii

**POC:** Melissa Dumarán      Hawaii Army National Guard, 3949 Diamond Head Road,  
Honolulu, HI 96816-4495 Attn: Engineering-Environmental  
Email: dumarán@hawaii.edu (808) 733-4265

**BOTH ONSITE AND CONTIGUOUS**

**Birds**

Newell's Townsend's (Formerly Manx) (= `A`o) Shearwater, *Puffinus auricularis (=puffinus) newelli* (T)

**Mammals**

Hawaiian Hoary Bat, *Lasiurus cinereus semotus* (E)

**ONSITE**

**Birds**

Hawaiian Duck, *Anas wyvilliana* (E)

Hawaiian Gallinule, *Gallinula chloropus sandvicensis* (E)

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### Aberdeen Proving Ground

AMC

**County:** Harford, Maryland

**POC:** James Pottie      Dir. of Safety, Health, and Environment  
Aberdeen Proving Ground, MD 21005-5001  
Attn: STEAP-SH-ER (Mr. Pottie)  
Email: jpottie@eagle.apg.army.mil (410) 671-4841

**BOTH ONSITE AND CONTIGUOUS**

**Birds**

Bald Eagle, *Haliaeetus leucocephalus* (T)    ESMP    Restrictions    Expenditures

**CONTIGUOUS**

**Birds**

Peregrine Falcon, *Falco peregrinus* E(S/A)

**Fish**

Shortnose Sturgeon, *Acipenser brevirostrum* (E)

Maryland Darter, *Etheostoma sellare* (E)

**Insects**

Puritan Tiger Beetle, *Cicindela puritana* (T)

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**Addicks Reservoir, TX-ARNG**

NGB

**County:** (NA) Texas**POC:** James Resner

P.O. Box 5218, TX 78763-5218 Attn: AGTX-EV

Email: jresner@worldnet.att.net (512) 465-5226

**BOTH ONSITE AND CONTIGUOUS****Plants**Texas Prairie Dawn-flower (=Texas Bitterweed), *Hymenoxys texana* (E) Restrictions**Adelphi Army Research Labs**

AMC

**County:** Charles, Maryland**POC:** Robert Wardwell

Blossom Point Road, MD 20646

Attn: AMSRL-CS-AL-FE

Email: Rwardwell@arl.mil (301) 394-1060

**ONSITE****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T) ESMP Restrictions Expenditures**Alabama Army Ammunition Plant**

AMC

**County:** (NA)**POC:** c/o Rich Clewell

U.S. Army Materiel Command

Installation and Services Activity,

Rock Island, IL 61299-7190 AMXEN-U

Email: rclewell@ria-emh2.army.mil (309) 782-8252

No Species

**Alabama Army National Guard**

NGB

**County:** Montgomery, Alabama**POC:** Maj. Wayne Sartwell

3711 Wm Dickinson Drive, P.O. Box 3711

AL 36109-0711 Attn: Maj. Wayne Sartwell,

Environmental Division (334) 271-7427

No Species

**Anahola LTA, HI-ARNG**

NGB

**County:** Honolulu, Hawaii**POC:** Melissa Dumaran

Hawaii Army National Guard

3949 Diamond Head Road

Honolulu, HI 96816-4495

Attn: Engineering-Environmental

Email: dumaran@hawaii.edu (808) 733-4265

**BOTH ONSITE AND CONTIGUOUS****Birds**Hawaiian Duck, *Anas wyvilliana* (E)**Anniston Army Depot & Coosa River Storage Annex**

AMC

**County:** Calhoun, Alabama**POC:** Billy Burns

7 Frankford Ave, Anniston, AL 36201-4199

Attn: SIOAN-RK-E

Email: wfburns@anad-emh1.army.mil (205) 235-4217

**BOTH ONSITE AND CONTIGUOUS****Plants**Tennessee Yellow-eyed Grass, *Xyris tennesseensis* (E) ESMP**Artemus Training Site, KY-ARNG**

NGB

**County:** Knox, Kentucky**POC:** Sgm Harold Disney

106 Hinkle Street, Barbourville, KY 40906

Attn: KG-EKWETS (606) 546-7838

No Species

**Atterbury Reserve Forces Training Area, IN-ARNG**

NGB

**Counties:** Johnson, Bartholomew, and Brown, Indiana**POC:** Art Howard

Bldg. 224, IN 46124-1096

Attn: MDI-FE-EN (812) 526-1249

**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T)

**Auburn Training Site, ME-ARNG**

NGB

**County:** Androscoggin, Maine**POC:** Maj Tim Bowman

Stevens Mill Road, Auburn, ME 04210-8903

Attn: MEARNG-DFE Email: bowman@me-ngnet.army.mil

(207) 626-4395

No Species

**Badger Army Ammunition Plant**

AMC

**County:** Sauk, Wisconsin**POC:** Douglas Rhead

2 Badger Rd; Baraboo, WI 53913, Attn: SIOBA-NR

Email: drhead@R13503S1 (608) 356-5525x379

**CONTIGUOUS****Plants**Prairie Bush Clover, *Lespedeza leptostachya* (T) Restrictions**Bangor International Airport Training Site, ME-ARNG**

NGB

**County:** Penobscot, Maine**POC:** Maj Tim Bowman

Cram Road, Bangor, ME 04411 Attn: MEARNG-DFE

Email: bowman@me-ngnet.army.mil (207) 626-4395

No Species

**Bluegrass Army Depot**

AMC

**County:** Madison, Kentucky**POC:** Billye Haslett

2091 Kingston Hwy, Richmond, KY 40475-5010

Attn: SIOBG-PW

Email: bhaslett@bluegrass-emh1.army.mil (606) 625-6669

**BOTH ONSITE AND CONTIGUOUS****Plants**Running Buffalo Clover, *Trifolium stoloniferum* (E)**Camel Tracks Training Site, NM-ARNG**

NGB

**County:** Sante Fe, New Mexico**POC:** Robert Concha

47 Bataan Boulevard, Santa Fe, NM 87505-4695

Attn: NMAG-AEN-EN (505) 474-1809

No Species

**Camp Adair, OR-ARNG**

NGB

**County:** Benton, Oregon**POC:** Greg MitchellOregon Military Academy, 701 Monmouth Ave. N,  
Monmouth, OR 97361-1021 Attn: AROPT-MA

Email: gregory.a.mitchell@state.or.us (503) 945-3851

No Species

**Camp Ashland, NE-ARNG**

NGB

**County:** Saunders, Nebraska**POC:** Cpt Vic SiedlerAshland, NE 68003-9801 Attn: Training Site Manager  
(402) 944-2150

No Species

**Camp Barkeley, TX-ARNG**

NGB

**County:** (NA), Texas**POC:** James Resner

P.O. Box 5218, TX 78763-5218 Attn: AGTX-EV

Email: jresner@worldnet.att.net (512) 465-5226

**BOTH ONSITE AND CONTIGUOUS****Birds**Black-capped Vireo, *Vireo atricapillus* (E) ESMP Restrictions Expenditures**Camp Beauregard, LA-ARNG**

NGB

**County:** Rapides, Louisiana**POC:** CW2 Carl Thompson

P.O. Box 34, Camp Beauregard, Pineville, LA 71360-3737

Attn: CW2 Carl Thompson (318) 641-8309

**CONTIGUOUS****Birds**Red-cockaded Woodpecker, *Picoides (=Dendrocopos) borealis* (E) Jeopardy ESMP

Restrictions Expenditures

## Camp Blanding Training Site, FL-ARNG

NGB

**County:** Clay, Florida

**POC:** Dr. Philip M. Hall

Rt. 1, Box 465, Bldg. 3018, Starke, FL 32091-9703

Attn: ENV Email: phall@flmnh.ufl.edu (904) 533-3456

### BOTH ONSITE AND CONTIGUOUS

#### Birds

Florida Scrub Jay, *Aphelocoma coerulescens* (=A. c. *coerulescens*) (T) ESMP

Bald Eagle, *Haliaeetus leucocephalus* (T) ESMP

Wood Stork, *Mycteria americana* (E) ESMP

#### Mammals

Florida Black Bear, *Ursus americanus floridanus* (C)

#### Reptiles

American Alligator, *Alligator mississippiensis* T(S/A) ESMP

Eastern Indigo Snake, *Drymarchon corais couperi* (T) ESMP

### ONSITE

#### Birds

Red-cockaded Woodpecker, *Picoides* (=Dendrocopos) *borealis* (E) ESMP Restrictions  
Expenditures

#### Plants

Chapman's Rhododendron, *Rhododendron chapmanii* (E) ESMP

#### Mammals

Florida Panther, *Felis concolor coryi* (E)

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## Camp Clark, MO-ARNG

NGB

**County:** Vernon, Missouri

**POC:** Eugene Young

2302 Militia Dr., Skelton Training Site, Jefferson City,  
MO 65101

Attn: NGMO-RPE-N (573) 526-9418

### CONTIGUOUS

#### Plants

Mead's Milkweed, *Asclepias meadii* (T)

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**Camp Crowder, MO-ARNG**

NGB

**County:** Newton, Missouri**POC:** Eugene Young2302 Militia Dr., Skelton Training Site, Attn: NGMO-RPE-N  
Jefferson City, MO 65101**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T) ESMP**Mammals**Gray Bat, *Myotis grisescens* (E) ESMP**CONTIGUOUS****Fish**Ozark Cavefish, *Amblyopsis rosae* (T) ESMP ExpendituresArkansas Darter, *Etheostoma cragini* (C)**Insects**American Burying Beetle, *Nicrophorus americanus* (E)**Camp Dodge, IA-ARNG**

NGB

**County:** Polk, Iowa**POC:** Mary JonesBldg. B-61 2700 Nw Beaver Drive, Camp Dodge,  
Johnston, IA 50131 Attn: AGIA-FAC-E (515) 252-4648

No Species

**Camp Grafton, ND-ARNG**

NGB

**County:** Ramsey, North Dakota**POC:** Maj. Gary W. YantzerRR5, Box 278A, Devils Lake, ND 58301-9235  
Attn: AGND-IRE-E Email: yantzer@osiris.cos.uiuc.edu  
(701) 224-5287

No Species

**Camp Grafton South, ND-ARNG**

NGB

**County:** Eddy, North Dakota**POC:** Maj. Gary W. YantzerRR5, Box 278A, Devils Lake, ND 58301-9235  
Attn: AGND-IRE-E Email: yantzer@osiris.cos.uiuc.edu  
(701) 224-5287**BOTH ONSITE AND CONTIGUOUS****Birds**Piping Plover, *Charadrius melodus* (T)

**Camp Grayling, MI-ARNG**

NGB

**Counties:** Crawford, Kalkaska, and Otsego, Michigan**POC:** Larry Jacobs

Bldg. 30, MI, 49739 Attn: MIAR-G-ENV

Email: ljacobs@osiris.cso.uiuc.edu (517) 348-7621x3429

**BOTH ONSITE AND CONTIGUOUS****Birds**Kirtland's Warbler, *Dendroica kirtlandii* (E) ESMP RestrictionsBald Eagle, *Haliaeetus leucocephalus* (T) ESMP Restrictions**Plants**Houghton's Goldenrod, *Solidago houghtonii* (T) ESMP Restrictions Expenditures**Camp Gruber, OK-ARNG**

NGB

**County:** Muskogee, Oklahoma**POC:** Nancy Davis

P.O. Box 29, Braggs, OK 74423-0029

Attn: OKCG-FE-ENV (918) 487-6223

**BOTH ONSITE AND CONTIGUOUS****Insects**American Burying Beetle, *Nicrophorus americanus* (E) ESMP Expenditures**Camp Guernsey, WY-ARNG**

NGB

**County:** Laramie, Wyoming**POC:** David Palmer

5500 Bishop Blvd., Cheyenne, WY 82009

Attn: AGWY-FMO-EEB

Email: palmerd@wy-iso.army.mil

(307) 772-5285

**CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T) Restrictions**Camp Joseph T. Robinson, AR-ARNG**

NGB

**Counties:** Pulaski and Faulkner, Arkansas**POC:** Kerry Koehler

Box 5 North, Little Rock, AR 72199-9600

Attn: ARNG-FMO-E

Email: kerryw@osiris.cso.uiuc.edu (501) 212-5886

**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T)



**Camp Maluhia LTA, HI-ARNG**

NGB

**County:** Honolulu, Hawaii**POC:** Melissa DumaranHawaii Army National Guard, 3949 Diamond Head Road,  
Honolulu, HI 96816-4495 Attn: Engineering-Environmental  
Email: dumaran@hawaii.edu (808) 733-4265

No Species

**Camp McCain, MS-ARNG**

NGB

**County:** Hinds, Mississippi**POC:** Maj Robert A. Piazza1410 Riverside Drive, Jackson, MS 39202  
Attn: NGMS-FMO-E Email: piazzar@ngms.state.ms.us  
(601) 973-6109

No Species

**Camp Murray, WA-ARNG**

NGB

**County:** Pierce, Washington**POC:** Ted ArnoldBldg 36, Camp Murray, Tacoma, WA 98430-5054  
Attn: Environmental Office  
Email: arnoldt@ng.state.wa.us  
(206) 512-8466**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T) ESMP Expenditures**Camp Navajo Military Reservation, AZ-ARNG**

NGB

**County:** Maricopa, Arizona**POC:** Christopher D. Pedersen5636 E. McDowell Rd., Phoenix, AZ 85008-3495  
Attn: AZAA-FME (602) 267-2464**Both Onsite and Contiguous****Birds**Peregrine Falcon, *Falco peregrinus* E(S/A) RestrictionsBald Eagle, *Haliaeetus leucocephalus* (T) ESMP Restrictions ExpendituresMexican Spotted Owl, *Strix occidentalis lucida* (T) Critical Habitat ESMP Restrictions  
Expenditures**Plants**Arizona Leather Flower, *Clematis hirsutissima var. arizonica* (C)

**Camp Rilea, OR-ARNG**

NGB

**County:** Clatsop, Oregon**POC:** Greg Mitchell

Rt. 2, P.O.Box 497E, Warrenton, OR 97146-9711

Attn: Post CDR Email: gregory.a.mitchell@state.or.us  
(503) 945-3851**ONSITE****Insect**Oregon Silverspot Butterfly, *Speyeria zerene hippolyta* (T) Critical Habitat ESMP  
Restrictions Expenditures**Camp Ripley, MN-ARNG**

NGB

**County:** Morrison, Minnesota**POC:** Martin Skoglund

P.O. Box 150, Little Falls, MN 56345

Attn: MNAG-CRC-EN

Email: skoglundm@fmo.dma.state.mn.us (320) 632-7201

**BOTH ONSITE AND CONTIGUOUS****Mammals**Gray Wolf, *Canis lupus* (T) ESMP Expenditures**ONSITE****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T) ESMP Restrictions Expenditures**Camp Roberts, CA-ARNG**

NGB

**Counties:** Monterey and San Luis Obispo, California**POC:** Julie Eliason

HQ, Camp Roberts, Camp Roberts, CA 93451-5000

Attn: CACR-EV (805) 238-8265

**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T)**Crustaceans**Vernal Pool Fairy Shrimp, *Branchinecta lynchi* (T) Restrictions Expenditures**Mammals**San Joaquin Kit Fox, *Vulpes macrotis mutica* (E) Restrictions Expenditures

**Camp San Luis Obispo, CA-ARNG**

NGB

**County:** Monterey and San Luis Obispo, California**POC:** Julie EliasonP.O. Box 8104, Camp San Luis Obispo, CA 93403-8104  
(805) 238-8265**BOTH ONSITE AND CONTIGUOUS****Amphibians**California Red-legged Frog, *Rana aurora draytoni* (PE) ESMP**Plants**Chorro Creek Bog Thistle, *Cirsium fontinale var. obispoense* (E) ESMP Expenditures**ONSITE****Birds**Least Bell's Vireo, *Vireo bellii pusillus* (E) ESMP Expenditures**Camp Shelby, MS-ARNG**

NGB

**County:** Hinds, Mississippi**POC:** Maj Robert A. Piazza

1410 Riverside Drive, Jackson, MS 39202

Attn: NGMS-FMO E Email: piazzar@ngms.state.ms.us

(601) 973-6109

**BOTH ONSITE AND CONTIGUOUS****Plants**Louisiana Quillwort, *Isoetes louisianensis* (E) Restrictions Expenditures**Reptiles**Gopher Tortoise, *Gopherus polyphemus* (T) ESMP Restrictions Expenditures**CONTIGUOUS****Birds**Red-cockaded Woodpecker, *Picoides (=Dendrocopos) borealis* (E) ESMP Restrictions  
Expenditures**Camp Smith, NY-ARNG**

NGB

**County:** Westchester, New York**POC:** Maj Mark Warnecke

Bldg 501, Peekskill, NY 10566-5000 Attn: MNFE-EC

Email: envny@ny-ngnet.army.mil (518) 786-4318

**CONTIGUOUS****Birds**Peregrine Falcon, *Falco peregrinus* E(S/A) ExpendituresBald Eagle, *Haliaeetus leucocephalus* (T) Expenditures**Fish**Shortnose Sturgeon, *Acipenser brevirostrum* (E)

**Carlisle Barracks**

TRADOC

**County:** (NA), Pennsylvania**POC:** c/o HQ TRADOC Ft Monroe, VA 23651 Attn: ATBO-FINNo Species

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**Caswell Training Site, ME-ARNG**

NGB

**County:** Aroostook, Maine**POC:** Maj Tim Bowman Caswell Township, Caswell, ME 04750 Attn: MEARNG-DFE  
Email: bowman@me-ngnet.army.mil (207) 626-4395No Species

---

**Catoosa Training Site, TN-ARNG**

NGB

**County:** Catoosa, Georgia**POC:** Jerry Mosley 43 Pistol Range Rd, Tunnel Hill, GA 30755-9998  
Attn: Facility Manager (706) 935-4897No Species

---

**Cedar City Armory, UT-ARNG**

NGB

**County:** Salt Lake, Utah**POC:** Douglas Johnson 12954 South Minuteman Drive, P.O. Box 1776,  
Draper, UT 84020-1777 (801) 576-3960

CONTIGUOUS

**Mammals**Utah Prairie Dog, *Cynomys parvidens* (T)

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**Central Oregon Training Site, OR-ARNG**

NGB

**County:** Deschutes, Oregon**POC:** Greg Mitchell 875 SW Simpson Ave., Bend, OR 97702-3118  
ATTN: 1-82 CAV Email: gregory.a.mitchell@state.or.us  
(503) 945-3851No Species

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**Charles Melvin Price Support Center**

AMC

**County:** (NA), Illinois**POC:** C/O Rich Clewell

U.S. Army Materiel Command,

Installation and Services Activity,

Rock Island, IL 61299-7192 AMXEN-M

Email: rclewell@ria-emh2.army.mil (309) 782-8252

No Species

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**Clark County Training Site, NV-ARNG**

NGB

**County:** Clark, Nevada**POC:** Loren Brazell

2601 S. Carson St., Carson City, NV 89701

Attn: USPFO-FMO-ENV (702) 887-7276

**BOTH ONSITE AND CONTIGUOUS****Birds**Southwestern Willow Flycatcher, *Empidonax traillii extimus* (E)**Reptiles**Desert Tortoise, *Gopherus agassizii* (T) Jeopardy Restrictions Expenditures

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**Command Readiness Center, RI-ARNG**

NGB

**County:** Providence, Rhode Island**POC:** CW2 Harry J. Francis

645 New London Avè., Cranston, RI 02920-3097

Attn: TAGRI-ARI Email: fmori@arngrc-emh2.army.mil

(401) 457-4234

No Species

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**Cornhusker Army Ammunition Plant**

AMC

**County:** Hall, Nebraska**POC:** Scott Smith

102 N 60th Rd., Grand Island, NE 68803-9022

Attn: SIOSF-NR Email: ssmith2@ria-emh2.army.mil

(913) 583-3000x6964

No Species

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**Delaware Army National Guard**

NGB

**County:** New Castle, Kent, and Sussex, Delaware**POC:** Cpt Scott RalphFacilities Management Office, First Regiment Road,  
DE 19808-2191 Attn: DE-AEN-E

Email: epsde@de-ngnet.army.mil

or sralph@osiris.cso.uiuc.edu (302) 326-7132

**CONTIGUOUS****Fish**Shortnose Sturgeon, *Acipenser brevirostrum* (E)**Detroit Arsenal**

AMC

**County:** (NA), Michigan**POC:** c/o Rich ClewellU.S. Army Materiel Command,  
Installation and Services Activity,

Rock Island, IL 61299-7190 Attn: AMXEN-M

Email: rclewell@ria-emh2.army.mil (309) 782-8252

No Species

**Devens Reserve Forces Training Area**

USARC

**County:** Worcester, Massachusetts**POC:** Tom Poole

DPW, Env. Div., Ft Devens, MA 01433-5190

Attn: AFRC-FMD-DPW-EM (508) 796-2747

**BOTH ONSITE AND CONTIGUOUS****Birds**Peregrine Falcon, *Falco peregrinus* E(S/A) ExpendituresBald Eagle, *Haliaeetus leucocephalus* (T) Expenditures

**Dillingham Training Area**

USARPAC

**County:** Honolulu, Hawaii**POC:** Steve Kim

U.S. Army Garrison, Schofield Barracks, HI 96857-5000

Attn: APVG-GWV (808) 656-2878x1050

**BOTH ONSITE AND CONTIGUOUS****Birds**Hawaiian Duck, *Anas wyvilliana* (E) ESMPHawaiian Coot, *Fulica americana alai* (E) ESMPHawaiian Gallinule, *Gallinula chloropus sandvicensis* (E) ESMPHawaiian (=Ae`o) Stilt, *Himantopus mexicanus (=himantopus) knudseni* (E) ESMP**Mammals**Hawaiian Monk Seal, *Monachus schauinslandi* (E) ESMP**ONSITE****Plants**Pu`uka`a, *Cyperus trachysanthos* (PE) ESMPKulu'i, *Nototrichium humile* (E) ESMPMa`oli`oli, *Schiedea kealiae* (PE) ESMP**CONTIGUOUS****Plants**Ma'o Hau Hele, *Hibiscus brackenridgei ssp. mokuleianus* (E) ESMP**Dugway Proving Ground**

AMC

**County:** Tooele, Utah**POC:** Scott Bates

Dugway Proving Ground, UT 84022

Attn: STEDP-DEP-CP

Email: sbates@dugway-emh4.army.mil (801) 831-3735

**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T)**CONTIGUOUS****Amphibians**Spotted Frog, *Rana pretiosa* (C)**Birds**Mountain Plover, *Charadrius montanus* (C)American Peregrine Falcon, *Falco peregrinus anatum* (E)**Plants**Ute Ladies'-tresses, *Spiranthes diluvialis* (T) Expenditures

**Eastern Kentucky Training Site**

NGB

**County:** Knox, Kentucky**POC:** Sgm Harold Disney

106 Hinkle Street, Barbourville, KY 40906

Attn: KG-EKWETS (606) 546-7838

No Species

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**Ethan Allen Airforce Base, Training Site, VT-ARNG**

NGB

**County:** Chittendenn, Vermont**POC:** Ltc Nye/Maj Bouchard

Bldg #5, Camp Johnson, Colchester, VT 05446-3004

Attn: VT-FE Email: envvt@vt-ngnet.army.mil

(802) 654-0300

No Species

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**Ethan Allen Firing Range, VT-ARNG**

NGB

**County:** Chittenden, Vermont**POC:** Ltc Nye/Maj Bouchard

Box 57, Lee River Rd, Eafr, Jericho, VT 05465

Attn: VT-FE (Bldg #5) Email: envvt@vt-ngnet.army.mil

(802) 654-0300

No Species

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**Fitzsimmons Army Medical Center**

MEDCOM

**County:** (NA), Colorado**POC:** c/o Gilbert Gonzalez

U.S. Army Medical Command, 2050 Worth Road, Fort Sam

Houston, TX 79234-6021 Attn: MCFA-E

Email: gilbert\_gonzalez@smtplink.medcom.amedd.army.mil

(210) 221-6441

No Species

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**Fort A.P. Hill**

MDW

**County:** Caroline, Virginia

**POC:** Heather Mansfield

Bowling Green, VA 22427

Attn: ANAP-PWE (804) 633-8417

**BOTH ONSITE AND CONTIGUOUS**

**Birds**

Bald Eagle, *Haliaeetus leucocephalus* (T) ESMP

**ONSITE**

**Plants**

Swamp Pink, *Helonias bullata* (T)

Small Whorled Pogonia, *Isotria medeoloides* (T)

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**Fort Belvoir**

MDW

**County:** Fairfax, Virginia

**POC:** Dorothy Keough

9820 Flagler Road, Suite 213, Fort Belvoir, VA 22060

Attn: ANFB-PWE (703) 806-4007

Email: keoughd@belvoir-ibm2.army.mil

**BOTH ONSITE AND CONTIGUOUS**

**Birds**

Bald Eagle, *Haliaeetus leucocephalus* (T) ESMP Restrictions Expenditures

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**Fort Benning**

TRADOC

**Counties:** Chattahoochee, Muscogee, and Russell, Georgia

**POC:** Randy Druckman

USAIC, DPW-NRMB, Bldg. 5884, Attn: ATZB-PWN-R

Ft Benning, GA 31905 (706) 544-7319

**BOTH ONSITE AND CONTIGUOUS**

**Birds**

Bald Eagle, *Haliaeetus leucocephalus* (T) ESMP Restrictions Expenditures

Wood Stork, *Mycteria americana* (E) ESMP Expenditures

**Reptiles**

American Alligator, *Alligator mississippiensis* T(S/A) ESMP Expenditures

**ONSITE**

**Birds**

Red-cockaded Woodpecker, *Picoides (=Dendrocopos) borealis* (E) Jeopardy ESMP

Restrictions Expenditures

**Plants**

Relict Trillium, *Trillium reliquum* (E) ESMP Restrictions Expenditures

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**Fort Bliss**

TRADOC

**County:** El Paso, Texas**POC:** Rafael D. Corral

Building 624, Fort Bliss, TX 79916 Attn: ATZC-DOE-C

Email: rafael@bliss-env1.army.mil (915) 568-6977

**BOTH ONSITE AND CONTIGUOUS****Birds**Southwestern Willow Flycatcher, *Empidonax traillii extimus* (E) ESMPAmerican Peregrine Falcon, *Falco peregrinus anatum* (E) ESMPBald Eagle, *Haliaeetus leucocephalus* (T) ESMP ExpendituresMexican Spotted Owl, *Strix occidentalis lucida* (T) ESMP**Plants**Sneed Pincushion Cactus, *Coryphantha sneedii* var. *sneedii* (=Escobaria s., Mammillaria s.) (E)  
ESMP Expenditures**CONTIGUOUS****Birds**Northern Aplomado Falcon, *Falco femoralis septentrionalis* (E) ESMP Expenditures**Plants**Kuenzler Hedgehog Cactus, *Echinocereus fendleri* (=Hempelii of Authors, Not Fobe) var. *kuenzleri*  
(E)Todsens Pennyroyal, *Hedeoma todsenii* (E)**Fort Bragg**

FORSCOM

**County:** Cumberland, North Carolina**POC:** Scott Bebb

Fort Bragg, NC 28307 Attn: AFZA-PW-DS

Email: bebbs@bbs.bragg.army.mil (910) 432-5325

**BOTH ONSITE AND CONTIGUOUS****Birds**Red-cockaded Woodpecker, *Picoides* (=Dendrocopos) *borealis* (E) Jeopardy ESMP  
Restrictions Expenditures**Plants**Rough-leaved Loosestrife, *Lysimachia asperulaefolia* (E) Jeopardy ESMP Restrictions  
ExpendituresMichaux's Sumac, *Rhus michauxii* (E) Jeopardy ESMP Restrictions ExpendituresAmerican Chaffseed, *Schwalbea americana* (E) ESMP Restrictions Expenditures**ONSITE****Insect**Saint Francis' Satyr Butterfly, *Neonympha mitchellii francisci* (E) ESMP Restrictions  
Expenditures

**Fort Buchanan**

FORSCOM

**County:** (NA), Puerto Rico**POC:** Tony Perez

DPW, Bldg 556, PR 00934-5040 ATTN: Env. Off

Email: pereza@ftmcphsn-emh2.army.mil (787) 273-3508

**ONSITE****Plants**Palo de Ramon, *Banara vanderbiltii* (E)Vahl Boxwood, *Buxus vahlii* (E)No Common Name, *Daphnopsis hellerana* (E)Palo de Rosa, *Ottoschulzia rhodoxylon* (E)**Reptiles**Puerto Rican Boa, *Epicrates inornatus* (E)**Fort Campbell**

FORSCOM

**County:** Montgomery and Stewart, Tennessee; Trigg and Christian, Kentucky**POC:** Jeff Jones, Gene Zirkle

Bldg. 2159 13th Street, Fort Campbell, KY 42223

and Tom Harschbarger

Attn: AFZB-DPW-E-CN (502) 798-9825

**BOTH ONSITE AND CONTIGUOUS****Birds**Peregrine Falcon, *Falco peregrinus* E(S/A)Bald Eagle, *Haliaeetus leucocephalus* (T)**CONTIGUOUS****Clams**Dromedary Pearly Mussel, *Dromus dromas* (E)Tan Riffleshell, *Epioblasma walkeri* (E)Pink Mucket Pearlymussel, *Lampsilis abrupta (=orbiculata)* (E)Ring Pink, *Obovaria retusa* (E)Orange Footed Pearly Mussel, *Plethobasus cooperianus* (E)Rough Pigtoe, *Pleurobema plenum* (E)Winged Mapleleaf Mussel, *Quadrula fragosa* (E)**Mammals**Gray Bat, *Myotis grisescens* (E)Indiana Bat, *Myotis sodalis* (E)**Plants**Price's Potato Bean, *Apios priceana* (T)**Reptiles**Northern Copperbelly Water Snake, *Nerodia erythrogaster neglecta* (PT)

**Fort Carson**

FORSCOM

**Counties:** El Paso, Pueblo, and Fremont, Colorado**POC:** Richard Bunn (Vertebrates) HQ, Ft Carson, CO 80913-5000 AFZC-ECM

Dave Anderson (Plants)

Email: andersond@carson-emh1.ar

(719) 576-8075 (Bunn) (715) 526-4683 (Anderson)

**BOTH ONSITE AND CONTIGUOUS****Birds**Mountain Plover, *Charadrius montanus* (C)American Peregrine Falcon, *Falco peregrinus anatum* (E) ExpendituresBald Eagle, *Haliaeetus leucocephalus* (T) ExpendituresMexican Spotted Owl, *Strix occidentalis lucida* (T) Expenditures**Fish**Arkansas Darter, *Etheostoma cragini* (C)**ONSITE****Fish**Greenback Cutthroat Trout, *Oncorhynchus clarki stomias* (T) Restrictions

Expenditures

**Plants**Ute Ladies'-tresses, *Spiranthes diluvialis* (T) Expenditures**Fort Chaffee**

TRADOC

**County:** Sebastian, Arkansas**POC:** Jerry Sturdy

USAG, Fort Chaffee, AR 72905

Attn: ATZR-ZF (501) 484-2883

**BOTH ONSITE AND CONTIGUOUS****Insects**American Burying Beetle, *Nicrophorus americanus* (E) ESMP Restrictions Expenditures**Fort Detrick**

MEDCOM

**County:** (NA), Maryland**POC:** c/o Gilbert GonzalezU.S. Army Medical Command, 2050 Worth Road, Fort Sam  
Houston, TX 79234-6020 Attn: MCFA-EEmail: gilbert\_gonzalez@smtplink.medcom.amedd.army.mil  
(210) 221-6441

No Species

**Fort Dix**

FORSCOM

**County:** (NA), New Jersey**POC:** c/o Bert BivingsHQ Forscom, Engineers Environmental Branch, Ft  
Mcperson, NJ 30330-6006 Attn: AFPI-ENE  
Email: bivings@ftmcpn-emn1.army.mil  
(404) 669-7659No Species

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**Fort Drum**

FORSCOM

**County:** (NA), New York**POC:** c/o Bert BivingsHQ FORSCOM, Engineers Environmental Branch,  
Ft Mcpherson, NY 30330-6007 Attn: AFPI-ENE  
Email: bivings@ftmcpn-emn1.army.mil  
(404) 669-7659No Species

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**Fort Eustis**

TRADOC

**County:** (NA), Virginia**POC:** Terry SandersBldg. 1407, Washington Blvd, VA 23604  
Attn: ATZF-PWE (757) 878-2375**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T) ESMP**CONTIGUOUS****Birds**Peregrine Falcon, *Falco peregrinus* E(S/A) ESMP

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**Fort George G. Meade**

MDW

**County:** Anne Arundel, Maryland**POC:** Bill HarmyerBldg. 239, Ross Rd and 2 1/2 Street, Fort Meade, MD  
20755-5050 Attn: ANME-PW (301) 677-9648No Species

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**Fort Gillem**

FORSCOM

**County:** (NA), Georgia**POC:** c/o Bert Bivings

HQ Forscom, Engineers Environmental Branch,  
 Ft McPherson, GA 30330-6005 Attn: AFPI-ENE  
 Email: bivings@ftmcphsn-emn1.army.mil  
 (404) 669-7659

No Species

**Fort Gordon**

TRADOC

**County:** Richmond, Georgia**POC:** Ken Boyd

11th Ave, Bldg. 2214, Ft. Gordon, GA 30905-5040  
 Attn: ATZH-DIE  
 Email: boyd@enrmo2.gordon.army.mil  
 (706) 791-2403

**ONSITE****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T) ESMPWood Stork, *Mycteria americana* (E) ESMP

Red-cockaded Woodpecker, *Picoides (=Dendrocopos) borealis* (E) ESMP Restrictions  
 Expenditures

**Fort Greely**

USARPAC

**County:** (NA), Alaska**POC:** William Gossweiler

730 Quartermaster Rd., AK 99505-6500  
 Attn: APVR-RPW-EV (907) 384-3017

**ONSITE****Birds**American Peregrine Falcon, *Falco peregrinus anatum* (E)**Fort Hamilton**

FORSCOM

**County:** (NA), New York**POC:** c/o Bert Bivings

HQ FORSCOM, Engineers Environmental Branch,  
 Ft McPherson, NY 30330-6002 Attn: AFPI-ENE  
 Email: bivings@ftmcphsn-emn1.army.mil (404) 669-7659

No Species

## Fort Hood

FORSCOM

**Counties:** Bell and Coryell, Texas**POC:** Dennis Herbert

HQ III Corps &amp; Fort Hood, TX 76544

Attn: AFZF-PW-ENV

Email: herbertd@hood-emh3.army.mil (817) 287-2885

**BOTH ONSITE AND CONTIGUOUS****Birds**Golden-cheeked Warbler, *Dendroica chrysoparia* (E) ESMP Restrictions ExpendituresPeregrine Falcon, *Falco peregrinus* E(S/A) ESMPWhooping Crane, *Grus americana* (E) ESMPBald Eagle, *Haliaeetus leucocephalus* (T) ESMP RestrictionsBlack-capped Vireo, *Vireo atricapillus* (E) ESMP Restrictions Expenditures

## Fort Huachuca

TRADOC

**County:** Cochise, Arizona**POC:** Sheridan Stone

Commander USAG, Ft Huachuca, AZ 85613-6000

Attn: ATZS-EHB (520) 533-7084

**BOTH ONSITE AND CONTIGUOUS****Amphibians**No Common Name, *Ambystoma californiense* (=A. *tigrinum* c.) (C)Ramsey Canyon Leopard Frog, *Rana subaquavocalis* (C)**Birds**Peregrine Falcon, *Falco peregrinus* E(S/A)Mexican Spotted Owl, *Strix occidentalis lucida* (T) Critical Habitat Restrictions  
Expenditures**Mammals**Lesser (=Sanborn's) Long-nosed Bat, *Leptonycteris curasoae* (=sanborni) *yerbabuena* (E)  
Restrictions Expenditures**Plants**Huachuca Water-umbel, *Lilaeopsis schaffneriana* ssp. *recurva* (PE)Blumer's Dock, *Rumex orthoneurus* (C)**Snails**Huachuca Springsnail, *Pyrgulopsis thompsoni* (C)**ONSITE****Plants**Lemmon Fleabane, *Erigeron lemmonii* (C)**CONTIGUOUS****Birds**Southwestern Willow Flycatcher, *Empidonax traillii extimus* (E)

**Fort Hunter Liggett**

USARC

**County:** Monterey, California**POC:** Liz Clark

P.O. Box 7090, Fort Hunter Liggett, CA 93928-7090

Attn: AFRC-EMH-ENV (408) 386-2791

**BOTH ONSITE AND CONTIGUOUS****Amphibians**No Common Name, *Ambystoma californiense* (=A. *tigrinum* c.) (C)**Birds**American Peregrine Falcon, *Falco peregrinus anatum* (E) ExpendituresBald Eagle, *Haliaeetus leucocephalus* (T) ESMP Restrictions ExpendituresLeast Bell's Vireo, *Vireo bellii pusillus* (E) Expenditures**Mammals**San Joaquin Kit Fox, *Vulpes macrotis mutica* (E) Jeopardy ESMP Restrictions  
Expenditures**ONSITE****Amphibians**Arroyo Southwestern Toad, *Bufo microscaphus californicus* (E) ESMP Expenditures**Crustaceans**Vernal Pool Fairy Shrimp, *Branchinecta lynchi* (T) ESMP Restrictions Expenditures**Plants**Purple Amole, *Chlorogalium purpureum var. purpureum* (C) Restrictions**CONTIGUOUS****Amphibians**California Red-legged Frog, *Rana aurora draytoni* (PE)**Birds**California Condor, *Gymnogyps californianus* (E) Expenditures**Fort Indiantown Gap, PA-ARNG**

NGB

**County:** Lebanon, Pennsylvania**POC:** Jeff OlsenPADMVA, Ft. Indiantown Gap,  
Annville, PA 17003-5002

Attn: Environmental Section

Email: envpa@pa-ngnet.ngb.army.mil (717) 861-8342

No Species



**Fort Irwin**

FORSCOM

**County:** San Bernardino, California**POC:** Mickey Quillman

Directorate of Public Works

Fort Irwin, Ca 92310-105097

Attn: AFZJ-PW-EV Email: quillmam@irwin.army.mil

(619) 380-3740

**BOTH ONSITE AND CONTIGUOUS****Plants**Lane Mountain Milk Vetch, *Astragalus jaegerianus* (C) Restrictions**Reptiles**Desert Tortoise, *Gopherus agassizii* (T) Critical Habitat ESMP Restrictions Expenditures**Fort Jackson**

TRADOC

**County:** Richland, South Carolina**POC:** Bruce Cole (Plants)

USATC &amp; Fort Jackson, SC 29207-5670

Bill Gates (Animals)

Attn: ATZJ-PWN-NR

(803) 751-7927 (Cole) (803) 751-6856 (Gates)

**ONSITE****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T)Red-cockaded Woodpecker, *Picoides borealis* (E) ESMP Restrictions Expenditures**Plants**Smooth Coneflower, *Echinacea laevigata* (E) ESMP Restrictions ExpendituresRough-leaved Loosestrife, *Lysimachia asperulaefolia* (E) ESMP Expenditures**Reptiles**American Alligator, *Alligator mississippiensis* T(S/A)

**Fort Knox**

TRADOC

**County:** Hardin, Kentucky**POC:** Donald Sheroan

DPW, F&amp;W Section, Bldg. 112,

Ft Knox, KY 40121-5000

Attn: ATZK-PWE (502) 624-7373

**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T) ESMP**Mammals**Indiana Bat, *Myotis sodalis* (E) ESMP Expenditures**ONSITE****Mammals**Gray Bat, *Myotis grisescens* (E) ESMP Expenditures**Fort Lee**

TRADOC

**County:** Prince George, Virginia**POC:** Elizabeth Scholl

1816 Shop Road, Ft Lee, VA 23801-1604

Attn: ATZM EMO

Email: escholl@lee-dns1.army.mil (804) 734-3560

**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T) ESMP Restrictions Expenditures

**Fort Lewis**

FORSCOM

**Counties:** Pierce and Thurston, Washington**POC:** Gary Stedman

Box 339500, WA 98433-9500 Attn: AFZH-PWQ

Email: gstedman@lewis-deh2.army.mil (206) 967-5337

**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T) ESMP Restrictions**Plants**Water Howellia, *Howellia aquatilis* (T) ESMP Expenditures**ONSITE****Birds**Northern Spotted Owl, *Strix occidentalis caurina* (species not found on installation but Critical Habitat designated) (T) Critical Habitat ESMP**CONTIGUOUS****Amphibians**Spotted Frog, *Rana pretiosa* (C)**Fish**Bull Trout, *Salvelinus confluentus* (C)**Fort McClellan**

TRADOC

**County:** Calhoun, Alabama**POC:** Bill GarlandDirectorate of Environment, Bldg. 141A, 13th Ave.,  
Ft. McClellan, AL 36205 ATZN-EM (205) 848-7398

Email: garlandb@mcclellan-emh2.army.mil

**BOTH ONSITE AND CONTIGUOUS****Fish**Blue Shiner, *Cyprinella caerulea* (T) ESMP Restrictions Expenditures**Mammals**Gray Bat, *Myotis grisescens* (E) ESMP Expenditures**Plants**Tennessee Yellow-eyed Grass, *Xyris tennesseensis* (E) ESMP Restrictions Expenditures**ONSITE****Plants**Mohr's Barbara Buttons, *Marshallia mohrii* (T) ESMP Restrictions Expenditures**CONTIGUOUS****Birds**Red-cockaded Woodpecker, *Picoides (=Dendrocopos) borealis* (E) ESMP Expenditures

**Fort McCoy**

USARC

**County:** Monroe, Wisconsin**POC:** Tim Wilder

2171 S. 8th Ave., Ft. McCoy, WI 54656-5163

Attn: AFRC-FM-PWE

Email: wildert@mccoy-emh1.army.mil

(608) 388-5679

**BOTH ONSITE AND CONTIGUOUS****Birds**Peregrine Falcon, *Falco peregrinus* E(S/A)Bald Eagle, *Haliaeetus leucocephalus* (T)**Insects**Karner Blue Butterfly, *Lycaeides melissa samuelis* (E) ESMP Restrictions Expenditures**CONTIGUOUS****Mammals**Gray Wolf, *Canis lupus* (E) Expenditures**Fort McNair**

MDW

**County:** District of Columbia**POC:** Jewel A. Simmons (MDW)

Email: simmonsj@mcnair-emh2.army.mil

(202) 685-3387

No Species

**Fort McPherson**

FORSCOM

**County:** (NA), Georgia**POC:** c/o Bert Bivings

HQ FORSCOM, Engineers Environmental Branch,

Ft McPherson, GA 30330-6004 Attn: AFPI-ENE

Email: bivings@ftmcpnsn-emn1.army.mil

(404) 669-7659

No Species

**Fort Meyer**

MDW

**County:** (NA), Virginia**POC:** Jewel A. Simmons

Email: simmonsj@mcnair-emh2.army.mil

(202) 685-3387

No Species

**Fort Monmouth**

AMC

**County:** Monmouth, New Jersey**POC:** Dinkel Dasai

173 Riverside Ave., NJ 07703-5108

Attn: SELFM-PW-EV

Email: desai@doim6.monmouth.army.mil

(908) 532-1475

No Species

**Fort Monroe**

TRADOC

**County:** (NA), Virginia**POC:** Bob Anderson

HQ, Tradoc VA 23651 ATBO-FN

Email: anderso7@emh10.monroe.army.mil

(804) 727-2077

No Species

**Fort Pickett**

USARC

**County:** Nottoway, Virginia**POC:** Alan Dyck

HQ, USAG, Fort Pickett, Blackstone, VA 23824-5000

Attn: AFRC-FMP-PW Email: dycka@juno.com

(804) 292-8501

**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T)**ONSITE****Plants**Michaux's Sumac, *Rhus michauxii* (E) Expenditures**Fort Polk**

FORSCOM

**County:** Vernon, Sabine, and Natchitoches, Louisiana**POC:** Stephanie Stephens

HQ, JRTC &amp; Fort Polk, Fort Polk, LA 71459

Attn: AFZX-PW-EC Email: jsmith@POLK-EMH2.ARMY.MIL

(318) 531-6130

**BOTH ONSITE AND CONTIGUOUS****Birds**Red-cockaded Woodpecker, *Picoides (=Dendrocopos) borealis* (E) ESMP Restrictions

Expenditures

**Fort Richardson**

USARPAC

**County:** (NA), Alaska**POC:** William Gossweiler

730 Quartermaster Rd, AK 99505-6500

Attn: APVR-RPW-EV (907)-384-3017

**ONSITE****Birds**American Peregrine Falcon, *Falco peregrinus anatum* (E)**Fort Riley**

FORSCOM

**Counties:** Riley and Geary, Kansas**POC:** Dave Jones

Bldg. 1970 Second Street, KS 66442

Attn: AFZN-ES-N (913) 239-6211

**BOTH ONSITE AND CONTIGUOUS****Birds**Piping Plover, *Charadrius melodus* (T) ESMP ExpendituresPeregrine Falcon, *Falco peregrinus* E(S/A) ESMP ExpendituresBald Eagle, *Haliaeetus leucocephalus* (T) ESMP ExpendituresLeast Tern, *Sterna antillarum* (E) ESMP Expenditures**Fish**Sturgeon Chub, *Macrhybopsis (=Hybopsis) gelida* (C)Topeka Shiner, *Notropis topeka (=tristis)* (C)**Fort Ritchie**

MDW

**County:** (NA), Maryland**POC:** Jewel A. Simmons (MDW)

Email: simmonsj@mcnair-emh2.army.mil

(202) 685-3387

No Species

**Fort Rucker**

TRADOC

**Counties:** Dale and Coffee, Alabama

**POC:** Mayo, C. Or Spillers, D. U.S. Army Aviation Center and Fort Rucker, AL  
 36362-5000 Attn: ATZQ-DPW-EN  
 Email: charles\_mayo@rucker-emh4.army.mil or  
 daniel\_spillers@rucker-emh4.army.mil  
 (334) 255-2416x9363

**BOTH ONSITE AND CONTIGUOUS****Reptiles**American Alligator, *Alligator mississippiensis* T(S/A)**CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T)**Mammals**Gray Bat, *Myotis grisescens* (E)**Fort Ruger, HI-ARNG**

NGB

**County:** Honolulu, Hawaii

**POC:** Melissa Dumaran Hawaii Army National Guard, 3949 Diamond Head Road,  
 Honolulu, HI 96816-4495  
 Attn: Engineering-Environmental  
 Email: dumaran@hawaii.edu (808) 733-4265

**ONSITE****Plants**Pu`uka`a, *Cyperus trachysanthos* (PE)**Fort Sam Houston/(Camp Bullis)**

MEDCOM

**County:** Bexar, Texas

**POC:** Jackie Schlatter 2202 15th Street, Bldg. 4196, TX 78234-5007  
 Attn: MCGA-PW-ENR  
 Email: jackie\_schlatter@smtplink.medcom1.amedd.army.mil  
 (210) 221-5093

**BOTH ONSITE AND CONTIGUOUS****Birds**Golden-cheeked Warbler, *Dendroica chrysoparia* (E) ESMP Restrictions ExpendituresBlack-capped Vireo, *Vireo atricapillus* (E) ESMP Restrictions Expenditures

**Fort Sill**

TRADOC

**County:** Commanche, Oklahoma**POC:** Glen Wampler                      HQ USAFACFS, Directorate of Environmental Quality,  
OK 73503 Attn: ATZR-BN

Email: barnettr@sill-emh1.army.mil (405) 442-4324

**BOTH ONSITE AND CONTIGUOUS****Birds**Black-capped Vireo, *Vireo atricapillus* (E)    ESMP    Restrictions    Expenditures**Fort Stewart & Hunter Army Airfield**

FORSCOM

**Counties:** Liberty, Long, Bryan, Tattnall, Evans, and Chatham, Georgia**POC:** Tim Beaty                      DPW, ENRD, F&W Branch, Fort Stewart, GA 31314-5000  
Attn: AFZP-DEV-W

Email: beatyt%dpw2@stewart-emh4.army.mil (912) 767-7261

**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T)    ESMP    Restrictions    ExpendituresWood Stork, *Mycteria americana* (E)    ESMP**Fish**Shortnose Sturgeon, *Acipenser brevirostrum* (E)    ESMP    Expenditures**Reptiles**Eastern Indigo Snake, *Drymarchon corais couperi* (T)    ESMP    Expenditures**ONSITE****Birds**Red-cockaded Woodpecker, *Picoides (=Dendrocopos) borealis* (E)    Jeopardy    ESMP  
Restrictions    Expenditures**Fort Totten**

FORSCOM

**County:** (NA), New York**POC:** c/o Bert Bivings                      HQ FORSCOM, Engineers Environmental Branch, Ft  
McPherson, NY 30330-6003 Attn: AFPI-ENE

Email: bivings@ftmcpshsn-emn1.army.mil (404) 669-7659

No Species



**Fort Wainwright**

USARPAC

**County:** (NA), Alaska**POC:** William Gossweiler

730 Quartermaster Rd., AK 99505-6500

Attn: APVR-RPW-EV (907) 384-3017

ONSITE

**Birds**American Peregrine Falcon, *Falco peregrinus anatum* (E)

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**Gardiner Training Site, ME-ARNG**

NGB

**County:** Kennebec, Maine**POC:** Maj Tim Bowman

Rte 26, Gardiner, ME 04345 Attn: MEARNG-DFE

Email: bowman@me-ngnet.army.mil (207) 626-4395

No Species

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**Grubbs/Kyle Training Center, TN-ARNG**

NGB

**County:** Rutherford, Tennessee**POC:** James Wicker

Smyrna Airport, Building 602, Smyrna, TN 37167

Attn: Training Site HQ (616) 355-3778

No Species

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**Hancock Army Complex**

FORSCOM

**County:** (NA), New York**POC:** c/o Bert BivingsHQ FORSCOM, Engineers Environmental Branch,  
Ft McPherson, NY 30330-6001

Attn: AFPI-ENE

Email: bivings@ftmcpn-emn1.army.mil (404) 669-7659

No Species

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**Hastings Training Site, NE-ARNG**

NGB

**Counties:** Clay and Adams, Nebraska**POC:** Maj David Peterson

6700 East J St, Hastings, NE 68901-8435

Attn: Training Site Manager (402) 463-7192

No Species

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**Hawthorne Army Depot**

AMC

**County:** Mineral, Nevada**POC:** Jim Purrell

P.O. Box 5000, NV 89415-5000 Attn: SIOHW-ORE

Email: jpurrell@ria-emh2.army.mil (702) 945-7590

No Species

**Hollis Plains Training Site, ME-ARNG**

NGB

**County:** York, Maine**POC:** Maj Tim Bowman

Hardscrabble Road, Hollis, ME 04042 Attn: MEARNG-DFE

Email: bowman@me-ngnet.army.mil (207) 626-4395

No Species

**Holston Army Ammunition Plant**

AMC

**Counties:** Hawkins and Sullivan, Tennessee**POC:** Gregory W. Lee

4509 West Stone Drive, Kingsport, TN 37660-9982

Attn: SIOHS-EC Email: glee1@ria-emh2.army.mil

(423) 578-6276

**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T) ESMP Restrictions**Indiana Army Ammunition Plant**

AMC

**County:** Clark, Indiana**POC:** Walt McClellan

11452 Highway 62, Charlestown, IN 47111-9667

Attn: SIOIN-NR Email: Indiana-AAP@ria-emh2.army.mil

(812) 284-7616

**CONTIGUOUS****Mammals**Gray Bat, *Myotis grisescens* (E) ExpendituresIndiana Bat, *Myotis sodalis* (E) Expenditures**Iowa Army Ammunition Plant**

AMC

**County:** Des Moines, Iowa**POC:** Joe Haffner

17571 State Highway, Middletown, IA 52638 SIOIA-PPE

Email: jhaffner@ria-emh2.army.mil (319) 753-7903

No Species

**Jefferson Proving Ground**

AMC

**Counties:** Jefferson, Ripley, and Jennings, Indiana**POC:** Ken Knouf Highway 421, IN 47250 (812) 273-2551**ONSITE****Birds**Oha, *Delissea subcordata* (PE)**Mammals**Indiana Bat, *Myotis sodalis* (E)

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**John Sevier Range, TN-ARNG**

NGB

**County:** Knox, Tennessee**POC:** Vernon Callahan 2327 Rifle Range Road, Knoxville, TN 21122

Attn: Facility Supervisor (615) 423-6655

No Species

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**Joliet Army Ammunition Plant**

AMC

**County:** Will, Illinois**POC:** Arthur Holz 29401 S. Rte. 53, Wilmington, IL 60481 SIOJO-OR

Email: aholz@ria-emh2.army.mil (815) 423-2877

No Species

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**Kahuku Training Area**

USARPAC

**County:** Honolulu, Hawaii**POC:** Steve Kim

U.S. Army Garrison, Hawaii, Attn: APVG-GWV

Schofield Barracks, HI 96857-5000 (808) 656-2878x1050

**BOTH ONSITE AND CONTIGUOUS****Plants**Haha Oha, *Cyanea koolauensis* (PE) ESMPHaha Oha, *Cyanea longiflora* (PE) ESMPNanu, *Gardenia mannii* (PE) ESMPNo Common Name, *Hesperomannia arborescens* (E) ESMP'Ohe'ohē, *Tetraplasandra gymnocarpa* (E) ESMP**ONSITE****Plants**No Common Name, *Adenophorus periens* (E) ESMPNioi, *Eugenia koolauensis* (E) ESMP Expenditures**CONTIGUOUS****Birds**Oahu 'Elepaio, *Chasiempis sandwichensis ibidis* (C)**Plants**Akoko, *Chamaesyce rockii* (PE) ESMPHaha Oha, *Cyanea grimesiana ssp. grimesiana* (E) ESMPNo Common Name, *Phyllostegia hirsuta* (PE) ESMPPopolo 'Aiakeakua, *Solanum sandwicense* (E) ESMP**Snails**Pupu Kuahiwi, *Achatinella curta* (E) ESMPPupu Kuahiwi, *Achatinella dimorpha* (E) ESMPPupu Kuahiwi, *Achatinella sowerbyana* (E) ESMPPupu Kuahiwi, *Achatinella valida* (E) ESMP

**Kansas Army Ammunition Plant**

AMC

**County:** Labette, Kansas**POC:** Mr. Alan Hynek

23018 Rooks Road, Parsons, KS 67357-8403

Attn: SIOKS-ORN

Email: ahynek@ria-emh2.army.mil (316) 421-7427

No Species

**Kawailoa Training Area**

USARPAC

**County:** Honolulu, Hawaii**POC:** Steve KimU.S. Army Garrison, Hawaii, Schofield Barracks,  
HI 96857-5000

Attn: APVG-GWV (808) 656-2878x1050

**BOTH ONSITE AND CONTIGUOUS****Birds**Oahu 'Elepaio, *Chasiempis sandwichensis ibidis* (C)Molokai (=Kakawahie) Creeper, *Paroreomyza* (=Oreomystis, =Loxops) *flammea* (E) ESMP**Mammals**Hawaiian Hoary Bat, *Lasiurus cinereus semotus* (E) ESMP**Plants**Akoko, *Chamaesyce rockii* (PE) ESMPHaha Oha, *Cyanea acuminata* (PE) ESMPHaha Oha, *Cyanea grimesiana ssp. grimesiana* (E) ESMPHaha Oha, *Cyanea koolauensis* (PE) ESMPHaha Oha, *Cyanea longiflora* (PE) ESMPHa'iwale, *Cyrtandra viridiflora* (PE) ESMPNanu, *Gardenia mannii* (PE) ESMPNo Common Name, *Hesperomannia arborescens* (E) ESMPKamakahala, *Labordia cyrtandrae* (PE) ESMPHaha Oha, *Lobelia gaudichaudii ssp. koolauensis* (PE) ESMPHaha Oha, *Lobelia oahuensis* (E) ESMPKolea, *Myrsine juddii* (PE) ESMPLaukahi Kuahiwi, *Plantago princeps var. longibracteata* (E) ESMPHaha Oha, *Rollandia crispa* [*Cyanea crispa*] (E) ESMPNo Common Name, *Sanicula purpurea* (PE) ESMP'Ohe'ohe, *Tetraplasandra gymnocarpa* (E) ESMPNo Common Name, *Viola oahuensis* (PE) ESMP**Snails**Pupu Kuahiwi, *Achatinella byronii* (E) ESMPPupu Kuahiwi, *Achatinella decipiens* (E) ESMPPupu Kuahiwi, *Achatinella lila* (E) ESMPPupu Kuahiwi, *Achatinella livida* (E) ESMPPupu Kuahiwi, *Achatinella sowerbyana* (E) ESMP

Kamakahala, *Labordia cyrtandrae* (PE) ESMP  
 Haha Oha, *Lobelia gaudichaudii* ssp. *koolauensis* (PE) ESMP  
 Haha Oha, *Lobelia oahuensis* (E) ESMP  
 Kolea, *Myrsine juddii* (PE) ESMP  
 Laukahi Kuahiwi, *Plantago princeps* var. *longibracteata* (E) ESMP  
 Haha Oha, *Rollandia crispa* [*Cyanea crispa*] (E) ESMP  
 No Common Name, *Sanicula purpurea* (PE) ESMP  
 `Ohe`ohe, *Tetraplasandra gymnocarpa* (E) ESMP  
 No Common Name, *Viola oahuensis* (PE) ESMP

### Snails

Pupu Kuahiwi, *Achatinella byronii* (E) ESMP  
 Pupu Kuahiwi, *Achatinella decipiens* (E) ESMP  
 Pupu Kuahiwi, *Achatinella lila* (E) ESMP  
 Pupu Kuahiwi, *Achatinella livida* (E) ESMP  
 Pupu Kuahiwi, *Achatinella sowerbyana* (E) ESMP

### ONSITE

#### Plants

No Common Name, *Adenophorus periens* (E) ESMP  
 Ha'iwale, *Cyrtandra dentata* (PE) ESMP  
 Wawae`Iole, *Lycopodium nutans* (E) ESMP Expenditures  
 Alani *Melicope lydgatei* (E) ESMP Expenditures  
 No Common Name, *Phyllostegia hirsuta* (PE) ESMP  
 No Common Name, *Phyllostegia parviflora* var. *parviflora* (E) ESMP Expenditures  
 No Common Name, *Pteris lidgatei* (E) ESMP Expenditures

#### Snails

Pupu Kuahiwi, *Achatinella rosea* (E) ESMP  
 Pupu Kuahiwi, *Achatinella apexfulva* (E) ESMP  
 Pupu Kuahiwi, *Achatinella bulimoides* (E) ESMP  
 Pupu Kuahiwi, *Achatinella leucorraphe* (E) ESMP  
 Pupu Kuahiwi, *Achatinella pulcherrima* (E) ESMP  
 Pupu Kuahiwi, *Achatinella swiftii* (E) ESMP

### CONTIGUOUS

#### Plants

`Oha, *Delissea subcordata* (PE) ESMP  
 Nioi, *Eugenia koolauensis* (E) ESMP Expenditures  
 No Common Name, *Platanthera holochila* (PE) ESMP

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**Keamuku LTA, HI-ARNG**

NGB

**County:** Honolulu, Hawaii**POC:** Melissa DumaránHawaii Army National Guard, 3949 Diamond Head Road,  
Honolulu, HI 96816-4495 Attn: Engineering-Environmental  
Email: dumarán@hawaii.edu (808) 733-4265**ONSITE****Birds**Hawaiian Duck, *Anas wyvilliana* (E)Hawaiian (=Io) Hawk, *Buteo solitarius* (E)Hawaii 'Akepa, *Loxops coccineus coccineus* (E)Hawaiian (=Nene) Goose, *Nesochen (=Branta) sandvicensis* (E)Hawaii Creeper *Oreomystis (=Loxops) mana* (E)**Mammals**Hawaiian Hoary Bat, *Lasiurus cinereus semotus* (E)**Plants**Kauila, *Colubrina oppositifolia* (E)No Common Name, *Haplostachys haplostachya* (E)Aupaka, *Isodendrion hosakae* (E)No Common Name, *Lipochaeta venosa* (E)Aiea, *Nothoctrum breviflorum* (E)Po'e, *Portulaca sclerocarpa* (E)No Common Name, *Tetramolopium arenarium arenarium* (E)No Common Name, *Vigna o-wahuensis* (E)A'e, *Zanthoxylum hawaiiense* (E)**Keaukaha Military Reservation, HI-ARNG**

NGB

**County:** Honolulu, Hawaii**POC:** Melissa DumaránHawaii Army National Guard, 3949 Diamond Head Road,  
Honolulu, HI 96816-4495 Attn: Engineering-Environmental  
Email: dumarán@hawaii.edu (808) 733-4265**ONSITE****Mammals**Hawaiian Hoary Bat, *Lasiurus cinereus semotus* (E)

**Kekaha LTA, HI-ARNG**

NGB

**County:** Honolulu, Hawaii

**POC:** Melissa Dumaran      Hawaii Army National Guard, 3949 Diamond Head Road,  
Honolulu, HI 96816-4495    Attn: Engineering-Environmental  
Email: dumaran@hawaii.edu (808) 733-4265

**BOTH ONSITE AND CONTIGUOUS****Birds**Hawaiian (=Nene) Goose, *Nesochen (=Branta) sandvicensis* (E)**Mammals**Hawaiian Hoary Bat, *Lasiurus cinereus semotus* (E)**ONSITE****Birds**Hawaiian (=Io) Hawk, *Buteo solitarius* (E)**CONTIGUOUS****Birds**Hawaiian Duck, *Anas wyvilliana* (E)Hawaiian Coot, *Fulica americana alai* (E)Hawaiian Gallinule, *Gallinula chloropus sandvicensis* (E)Hawaiian (=Ae`o) Stilt, *Himantopus mexicanus (=himantopus) knudseni* (E)**Lake City Army Ammunition Plant**

AMC

**County:** Jackson, Missouri

**POC:** Scott Smith      Independence, MO 64051-0250    Attn: SIOSF-NR  
Email: ssmith2@ria-emh2.army.mil (913) 583-3000x6964

No Species

**Leesburg Training Site, SC-ARNG**

NGB

**County:** Richland, South Carolina

**POC:** C. Bryan Hall      5401 Leesburg Road, SC29044    Attn: TAG-OT-TS-EN  
Email: envlts@netside.com (803) 806-2236

**ONSITE****Birds**Red-cockaded Woodpecker, *Picoides (=Dendrocopos) borealis* (E)    ESMP    Restrictions**Plants**Smooth Coneflower, *Echinacea laevigata* (E)    ESMP    RestrictionsRough-leaved Loosestrife, *Lysimachia asperulaefolia* (E)    ESMP



**Letterkenny Army Depot**

AMC

**County:** Franklin, Pennsylvania**POC:** Randy Quinn

Bldg. 618, Chambersburg, PA 17201 Attn: SIOLE-EEJ

Email: rquinn@letterkenn-emh1.army.mil

(717) 267-8438

ONSITE

**Reptiles**Bog (Northern Population) Turtle, *Clemmys muhlenbergii* (C)**Lil Aaron Straus Wilderness Area, MD-NGB**

NGB

**County:** Baltimore, Maryland**POC:** Cpt Chris Cole

5th Regiment Armory, MD 21201

MD-STARC-FMO-ENV

Email: ranger@erols.com (410) 576-6132

BOTH ONSITE AND CONTIGUOUS

**Plants**Harperella, *Ptilimnium nodosum* (E) ESMP Restrictions Expenditures**Lima Army Tank Plant**

AMC

**County:** Allen, Ohio**POC:** Phil R. Dawson

1155 Buckeye Road, Lima, OH 45804-1898 Attn: P. Dawson

DCMDE-RQTF Email: brq9051@dcrb.dla.mil (419) 221-9537

No Species

**Longhorn Army Ammunition Plant**

AMC

**County:** Harrison, Texas**POC:** Paul Hagerty

Highway 134 @ Highway 43, Karnack, TX 75661

Attn: SIOLH-OR Email: phagerty@ria-emh2.army.mil

(318) 459-5479

BOTH ONSITE AND CONTIGUOUS

**Reptiles**American Alligator, *Alligator mississippiensis* T(S/A)

**Louisiana Army Ammunition Plant**

AMC

**Counties:** Webster and Bossier, Louisiana**POC:** Paul Hagerty

9649 Hwy. 80, Minden, LA 71055 Attn: SIOLH-OR

Email: phagerty@ria-emh2.army.mil (318) 459-5479

**BOTH ONSITE AND CONTIGUOUS****Reptiles**American Alligator, *Alligator mississippiensis* T(S/A)**Macon Training Site, MO-NGB**

NGB

**County:** Macon, Missouri**POC:** Eugene Young2302 Militia Dr., Skelton Training Site, Jefferson City,  
MO 65101

Attn: NGMO-RPE-N (573) 526-9418

**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T) ESMP**CONTIGUOUS****Mammals**Indiana Bat, *Myotis sodalis* (E) Expenditures

**Makua Military Reservation**

USARPAC

**County:** Honolulu, Hawaii**POC:** Steve Kim

U.S. Army Garrison, Hawaii, Schofield Barracks,

HI 96857-5000

Attn: APVG-GWV (808) 656-2878x1050

**BOTH ONSITE AND CONTIGUOUS****Birds**Oahu 'Elepaio, *Chasiempis sandwichensis ibidis* (C)Molokai (=Kakawahie) Creeper, *Paroreomyza (=Oreomystis, =Loxops) flammea* (E) ESMP**Plants**Mahoe Ala'alahua, *Alectryon macrococcus var. macrococcus* (E) ESMPNo Common Name, *Alsinidendron obovatum* (E) ESMP ExpendituresNo Common Name, *Diellia falcata* (E) ESMPNa`ena`e, *Dubautia herbstobatae* (E) ESMP ExpendituresNo Common Name, *Hedyotis parvula* (E) ESMPAnaunau, *Lepidium arbuscula* (PE) ESMPKulu'i, *Nototrichium humile* (E) ESMPLaukahi Kuahiwi, *Plantago princeps var. princeps* (E) ESMPNo Common Name, *Sanicula mariversa* (E) ESMP ExpendituresNo Common Name, *Schiedea hookeri* (PE) ESMPHawaiian Parsley, *Spermolepis hawaiiensis* (E) ESMP ExpendituresNo Common Name, *Tetramolopium filiforme var. polyphyllum* (E) ESMP

Expenditures

**Snails**Pupu Kuahiwi, *Achatinella mustelina* (E) Jeopardy ESMP Restrictions**ONSITE****Plants**No Common Name, *Bonamia menziesii* (E) ESMPUhiuhi, *Caesalpinia (=Mezoneuron) kavaiense* (E) ESMPKamanomano (=Sandbur, Agrimony), *Cenchrus agrimonioides* (PE) ESMPOha Oha, *Cyanea superba ssp. superba* (E) ESMP Expenditures`Akoko, *Euphorbia haeleleana* (PE) ESMPMehamehame, *Flueggea neowawraea* (E) ESMP ExpendituresNehe, *Lipochaeta tenuifolia* (E) ESMPMa'aloa, *Neraudia angulata var. angulata* (E) ESMP ExpendituresMa'aloa, *Neraudia angulata var. dentata* (E) ESMP ExpendituresLoulou, *Pritchardia kaalae* (PE) ESMPNo Common Name, *Schiedea nuttallii* (PE) ESMPLanceleaf Catchfly, *Silene lanceolata* (E) ESMPPamakani, *Viola chamissoniana ssp. chamissoniana* (E) ESMP Expenditures

**CONTIGUOUS****Plants**

Pauoa, *Ctenitis squamigera* (E) ESMP Expenditures

Oha, *Delissea subcordata* (PE) ESMP

Haha Oha, *Lobelia niihauensis* (E) ESMP

No Common Name, *Tetramolopium lepidotum ssp. lepidotum* (E) ESMP

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**Marseilles Training Area, IL-ARNG**

NGB

**County:** (NA), Illinois

**POC:** Jon Casebeer

c/o Dept. of Military Affairs, Facilities and Engineering  
 Directorate, 1301 N. MacArthur Blvd.,  
 Springfield, IL 62702-2399  
 (217) 785-3592

No Species

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**Martinez Reserve Center (81st)**

USARC

**County:** Dade, Florida

**POC:** John Nettles

13601 S.W. 137th Ave., Perrine, FL 33177-2500  
 Attn: AFRC (305) 378-4822

**BOTH ONSITE AND CONTIGUOUS**

**Plants**

Deltoid Spurge, *Chamaesyce (=Euphorbia) deltoidea ssp. deltoidea* (E) ESMP Expenditures

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**McAlester Army Ammunition Plant**

AMC

**County:** Pittsburg, Oklahoma

**POC:** Bill Starry

McAlester, OK 74501-5000

Attn: Bill Starry (918) 421-2611

**BOTH ONSITE AND CONTIGUOUS**

**Insects**

American Burying Beetle, *Nicrophorus americanus* (E) ESMP

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**Mead Training Site, NE-ARNG**

NGB

**County:** Saunders, Nebraska

**POC:** Cpt Vic Siedler

RR 1, Box 104B, Bldg. 38, NE 68041-9725

Attn: Training Site Manager (402) 944-2150

No Species

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**Milan Army Ammunition Plant**

AMC

**County:** Carroll, Tennessee**POC:** Cooper Stephens 2280 Hwy. 104W, Suite 1, Milan, TN 38358-3176  
Attn: SIOML-IO Email: g.cooper.stephens@lmco.com  
(901) 686-6611No Species

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**Milan Training Site, TN-ARNG**

NGB

**County:** Carroll, Tennessee**POC:** Jerry Yearwood Rt. 1, Box 3, 325 Arsenal Lane, Lavinia, TN 38348-9701  
Attn: Facility Manager (901) 783-3975No Species

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**Military Ocean Terminal, Bayonne**

MTMC

**County:** Hudson, New Jersey**POC:** Leonard Wagner Foot of 32nd St Bridge, NJ 07002 Attn: MTEGB-PWE  
Email: wagnerl@bayonne-emh3.army.mil (201) 823-7010No Species

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**Natick RD&E Center**

AMC

**County:** (NA), Massachusetts**POC:** c/o Rich Clewell U.S. Army Materiel Command,  
Installation and Services Activity,  
Rock Island, IL 61299-7191 MA AMXEN-M  
Email: rclewell@ria-emh2.army.mil (309) 782-8252No Species

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**Nebraska Army National Guard**

NGB

**County:** Lancaster, Nebraska**POC:** Capt David Wunibald 1300 Military Rd., Fmo-E, NE 68508-1090  
Attn: Env Protection Mgr. (402) 471-7136No Species

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**New Jersey National Guard**

NGB

**County:** Mercer, New Jersey**POC:** Dean L. Arrighi

101 Eggert Crossing Road, Lawrenceville, NJ 08648-2805

Attn: ID-OEC

Email: arrighi@dmava.state.nj.us (609) 530-7136

No Species

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**Newport Chemical Depot**

AMC

**County:** Vermillion, Indiana**POC:** Phillip Cox

P.O. Box 458, Newport, IN 47966-0458

(317) 245-4324

**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T)

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**Oakland Army Base**

MTMC

**County:** Contra Costa, California**POC:** Richard Andrews

100 Alaska Street, Oakland, CA 94626-5000

Attn: MTWGA-EN

Email: andrewsr@oakland-smtp.army.mil

(510) 466-2694

No Species

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**Orchard Training Area, ID-ARNG**

NGB

**County:** Ada, Idaho**POC:** Dana Quinney

4715 S. Byrd St., Boise, ID 83705

Email: danaq@aol.com or danaq@dmi.net (208) 422-4181

No Species

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**Parks Reserve Forces Training Area**

USARC

**County:** Alameda, California**POC:** Marshall Marik

Bldg. 790, 5th St., Dublin, CA 94568-5201

Attn: AFRC-FMC-ENV (510) 803-5638

**BOTH ONSITE AND CONTIGUOUS****Amphibians**California Red-legged Frog, *Rana aurora draytoni* (PE)**CONTIGUOUS****Mammals**San Joaquin Kit Fox, *Vulpes macrotis mutica* (E)**Picatunny Arsenal TACOM-ARDEC**

AMC

**County:** Morris, New Jersey**POC:** Jon Vandeventer

Picatunny Arsenal, NJ 07806-5000

Attn: AMSTA-AR-PWR

Email: jvande@pica.army.mil (201) 724-4691

**BOTH ONSITE AND CONTIGUOUS****Birds**American Peregrine Falcon, *Falco peregrinus anatum* (E)Bald Eagle, *Haliaeetus leucocephalus* (T)**Mammals**Indiana Bat, *Myotis sodalis* (E) ESMP**CONTIGUOUS****Reptiles**Bog (Northern Population) Turtle, *Clemmys muhlenbergii* (C)**Pine Bluff Arsenal**

AMC

**County:** Jefferson, Arkansas**POC:** Charles Becker

10020 Kabrich Circle, Pine Bluff, AR 71602-9500

Attn: SIOPB-EM Email: charles-becker@pba-emh1.army.mil

(501) 540-2834

**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T)**Reptiles**American Alligator, *Alligator mississippiensis* T(S/A)

**Pinon Canyon Maneuver Site**

FORSCOM

**County:** Las Animas, Colorado**POC:** Richard Bunn (Vertebrate)  
Dave Anderson (Plants)

HQ, PCMS; 36086 U.S. Hwy. 350, Model Co., CO 81059

Email: andersond@carson-emh1.ar

(715) 526-4683 Anderson (719) 576-8075 Bunn

**BOTH ONSITE AND CONTIGUOUS****Birds**Mountain Plover, *Charadrius montanus* (C)American Peregrine Falcon, *Falco peregrinus anatum* (E)Bald Eagle, *Haliaeetus leucocephalus* (T) Expenditures**Mammals**Swift Fox, *Vulpes velox* (C)**Plymouth Training Site, ME-ARNG**

NGB

**County:** Penobscot, Maine**POC:** Maj Tim Bowman

Condin Road, Plymouth, ME 04953

Attn: MEARNG-DFE

Email: bowman@me-ngnet.army.mil (207) 626-4395

No Species



## Pohakuloa Training Area

USARPAC

County: Hawaii, Hawaii

POC: Trisha Tierney

36 Mile Marker, Highway 200, PTA, HI 96556

Attn: APVG-GP-ENV

Email: ptaenvof@schofield-emh1.army.mil (808) 969-3340

**BOTH ONSITE AND CONTIGUOUS****Birds**Hawaiian (=Io) Hawk, *Buteo solitarius* (E) ESMP'Akiapola`au (Honeycreeper), *Hemignathus munroi* (=wilsoni) (E) ESMPPalila, *Loxioides bailleui* (E) Critical Habitat Jeopardy ESMP Restrictions

## Expenditures

Hawaiian (=Nene) Goose, *Nesochen* (=Branta) *sandvicensis* (E) Jeopardy ESMP**Mammals**Hawaiian Hoary Bat, *Lasiurus cinereus semotus* (E) ESMP**Plants**No Common Name, *Haplostachys haplostachya* (E) Jeopardy ESMP Restrictions ExpendituresPo'e, *Portulaca sclerocarpa* (E) ESMP RestrictionsA'e, *Zanthoxylum hawaiiense* (E) ESMP Restrictions**ONSITE****Plants**Fragile Fern, *Asplenium fragile var. insulare* (E) ESMP RestrictionsKio'ele, *Hedyotis coriacea* (E) ESMP RestrictionsMa'aloa, *Neraudia ovata* (PE) ESMPHawaiian Catchfly, *Silene hawaiiensis* (T) ESMP RestrictionsLanceleaf Catchfly, *Silene lanceolata* (E) ESMP Restrictions ExpendituresSpiny Popolo, *Solanum incompletum* (E) ESMP ExpendituresHawaiian Parsley, *Spermolepis hawaiiensis* (E) ESMP RestrictionsNo Common Name, *Stenogyne angustifolia* (E) Jeopardy ESMP RestrictionsMauna Kea Pamakani, *Tetramolopium arenarium* (E) ESMP Restrictions**CONTIGUOUS****Birds**Alala, Hawaiian Crow, *Corvus hawaiiensis* (E) ESMPHawaii 'Akepa, *Loxops coccineus coccineus* (E) ESMPHawaii Creeper, *Oreomystis* (=Loxops) *mana* (E) ESMPO'u, *Psittirostra psittacea* (E) ESMPHawaiian Dark-rumped Petrel, *Pterodroma phaeopygia sandwichensis* (E) ESMP

**Presidio of Monterey**

TRADOC

**County:** Monterey, California**POC:** Jane Holte

Presidio of Monterey, Monterey, CA 93944-5006

Attn: ATZP-EP

Email: holtej@pom-emhi.army.mil (408) 242-7917

**BOTH ONSITE AND CONTIGUOUS****Plants**Yadon's Piperia, *Piperia yadonii* (PE) ESMP**Presidio of Monterey (POM) Annex**

TRADOC

**County:** Monterey, California**POC:** Jane Holte

Presidio of Monterey, Monterey, CA 93944-5006

Attn: ATZP-EP Email: holtej@pom-emhi.army.mil

(408) 242-7917

**BOTH ONSITE AND CONTIGUOUS****Birds**Western Snowy Plover, *Charadrius alexandrinus nivosus* (T) ESMP Expenditures**Insects**Smith's Blue Butterfly, *Euphilotes enoptes smithi* (E) ESMP Expenditures**Plants**Monterey Spineflower, *Chorizanthe pungens var. pungens* (T) ESMP ExpendituresRobust Spineflower, *Chorizanthe robusta* (E) ESMPMonterey Sand Gilia, *Gilia tenuiflora ssp. arenaria* (E) ESMP ExpendituresYadon's Piperia, *Piperia yadonii* (PE) ESMP**Reptiles**California Black Legless Lizard, *Anniella pulchra nigra* (PE) ESMP**CONTIGUOUS****Amphibians**California Red-legged Frog, *Rana aurora draytoni* (PE) ESMP

**Pu'u Pa LTA, HI-ARNG**

NGB

**County:** Honolulu, Hawaii**POC:** Melissa DumaranHawaii Army National Guard, 3949 Diamond Head Road,  
Honolulu, HI 96816-4495 Attn: Engineering-Environmental  
Email: dumaran@hawaii.edu (808) 733-4265**ONSITE****Birds**Hawaiian (=Io) Hawk, *Buteo solitarius* (E)Hawaii 'Akepa, *Loxops coccineus coccineus* (E)Hawaii Creeper, *Oreomystis (=Loxops) mana* (E)**Mammals**Hawaiian Hoary Bat, *Lasiurus cinereus semotus* (E)Kauila, *Colubrina oppositifolia* (E)No Common Name, *Lipochaeta venosa* (E)Aiea, *Nothocestrum breviflorum* (E)Po'e, *Portulaca sclerocarpa* (E)No Common Name, *Stenogyne angustifolia* (E)No Common Name, *Tetramolopium arenarium arenarium* (E)**Pueblo Depot Activity**

AMC

**County:** (NA), Colorado**POC:** c/o Rich ClewellU.S. Army Materiel Command, Installation and  
Services Activity, Rock Island, IL 61299-7193  
CO AMXEN-M

Email: rclewell@ria-emh2.army.mil (309) 782-8252

No Species

**Radford Army Ammunition Plant**

AMC

**Counties:** Montgomery and Pulaski, Virginia**POC:** Charles Chase

P.O. Box 2, VA 24141 Attn: SIORF-SE-EQ

Email: jjenkins@ria.emh2.army.mil (540) 693-8649

**BOTH ONSITE AND CONTIGUOUS****Snails**Virginia Fringed Mountain Snails, *Polygyriscus virginianus* (E)**CONTIGUOUS****Plants**Smooth Coneflower, *Echinacea laevigata* (E)

## Ravenna Army Ammunition Plant

AMC

**Counties:** Portage and Trumbull, Ohio

**POC:** Tim Morgan

8451 State Route 5, OH 44266-9297 Attn: SIORV-NR

Email: Ravenna-aap@ria-emh2.army.mil

(330) 358-7311

### CONTIGUOUS

#### Birds

Bald Eagle, *Haliaeetus leucocephalus* (T)

#### Mammals

Indiana Bat, *Myotis sodalis* (E)

#### Plants

Northern Wild Monkshood, *Aconitum noveboracense* (T)

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## Red River Army Depot

AMC

**County:** Bowie, Texas

**POC:** Bennie Murray/Terry Ruth

Texarkana, TX 75507-5000 Attn: SIORR-OL

Email: Siorrol@redriverad-emh1.army.mil

(903) 334-2379

No Species

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## Redstone Arsenal

AMC

**County:** Madison, Alabama

**POC:** Danny Dunn

MICOM, Redstone Arsenal, AL 35898

Attn: AMSMI-RA-EMP-IRNR

Email: ddunn@hmwms1.redstone.army.mil (205) 955-6970

### BOTH ONSITE AND CONTIGUOUS

#### Birds

American Peregrine Falcon, *Falco peregrinus anatum* (E)

Bald Eagle, *Haliaeetus leucocephalus* (T)

#### Crustaceans

Alabama Cave Shrimp, *Palaemonias alabamiae* (E) ESMP Expenditures

#### Mammals

Gray Bat, *Myotis grisescens* (E)

#### Reptiles

American Alligator, *Alligator mississippiensis* T(S/A)

### ONSITE

#### Plants

Price's Potato Bean, *Apios priceana* (T) ESMP

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**Regional Training Institute, NH-ARNG**

NGB

**County:** Strafford, New Hampshire**POC:** Zachary Boyajian P.O. Box 280, Route 128 Center, Strafford, NH 03815-0280  
Attn: NHAG-FM-EV Email: boyajian@nh-ngnet.army.mil  
(603) 228-1135x1440

CONTIGUOUS

**Plants**Small Whorled Pogonia, *Isotria medeoloides* (T)**Riley-Bog Brook Training Site, ME-ARNG**

NGB

**County:** Oxford, Maine**POC:** Maj Tim Bowman Rte 2, Gilead, ME 04217 Attn: MEARNG-DFE  
Email: bowman@me-ngnet.army.mil (207) 626-4395

No Species

**Rock Island Arsenal**

AMC

**County:** Rock Island, Illinois**POC:** Rich Todd Rock Island, IL 56299 Attn:SIORI-PWB  
Email: rtodd@ria-emh2.army.mil (309) 782-2045

BOTH ONSITE AND CONTIGUOUS

**Birds**Bald Eagle, *Haliaeetus leucocephalus* (T)**Savanna Army Depot Activity**

AMC

**Counties:** Jodaviess and Carroll, Illinois**POC:** Bob Speaker Rt. 84 North, IL 61074 Attn:SIOSV-AE  
Email: rspeaker@letterkenn-emh1.army.mil  
(815) 273-8533

BOTH ONSITE AND CONTIGUOUS

**Birds**Bald Eagle, *Haliaeetus leucocephalus* (T) ESMP Expenditures**Clams**Higgins' Eye Pearlymussel, *Lampsilis higginsii* (E) Expenditures

CONTIGUOUS

**Mammal**Indiana Bat, *Myotis sodalis* (E) Expenditures

## Schofield Barracks Military Reservation

USARPAC

**County:** Honolulu, Hawaii

**POC:** Steve Kim

U.S. Army Garrison, Hawaii, Schofield Barracks,

HI 96857-5000

Attn: APVG-GWV (808) 656-2878x1050

### **BOTH ONSITE AND CONTIGUOUS**

#### **Birds**

Oahu 'Elepaio, *Chasiempis sandwichensis ibidis* (C)

Molokai (=Kakawahie) Creeper, *Paroreomyza (=Oreomystis, =Loxops) flammea* (E) ESMP

#### **Mammal**

Hawaiian Hoary Bat, *Lasiurus cinereus semotus* (E) ESMP

#### **Plants**

Mahoe Ala'alahua, *Alectryon macrococcus var. macrococcus* (E) ESMP

No Common Name, *Alsinidendron trinerve* (E) ESMP

Akoko, *Chamaesyce rockii* (PE) ESMP

Haha Oha, *Cyanea acuminata* (PE) ESMP

Haha Oha, *Cyanea grimesiana ssp. grimesiana* (E) ESMP

Haha Oha, *Cyanea koolauensis* (PE) ESMP

Haha Oha, *Cyanea longiflora* (PE) ESMP

Ha'iwale, *Cyrtandra subumbellata* (PE) ESMP

No Common Name, *Diellia falcata* (E) ESMP

Nanu, *Gardenia manni* (PE) ESMP

No Common Name, *Hesperomannia arborescens* (E) ESMP

Aupaka, *Isodendron laurifolium* (PE) ESMP

Anaunau, *Lepidium arbuscula* (PE) ESMP

Haha Oha, *Lobelia niihauensis* (E) ESMP

Haha Oha, *Lobelia oahuensis* (E) ESMP

No Common Name, *Phyllostegia hirsuta* (PE) ESMP

No Common Name, *Sanicula purpurea* (PE) ESMP

No Common Name *Schiedea hookeri* (PE) ESMP

'Ohe'ohe, *Tetraplasandra gymnocarpa* (E) ESMP

Opuhe, *Urera kaalae* (E) ESMP

Pamakani, *Viola chamissoniana ssp. chamissoniana* (E) ESMP Expenditures

No Common Name, *Viola oahuensis* (PE) ESMP

#### **Snails**

Pupu Kuahiwi, *Achatinella byronii* (E) ESMP

Pupu Kuahiwi, *Achatinella decipiens* (E) ESMP

Pupu Kuahiwi, *Achatinella leucorraphe* (E) ESMP

Pupu Kuahiwi, *Achatinella mustelina* (E) ESMP

Pupu Kuahiwi, *Achatinella sowerbyana* (E) ESMP

Pupu Kuahiwi, *Achatinella swiftii* (E) ESMP

**ONSITE****Plant**

Kamanomano (=Sandbur, Agrimony), *Cenchrus agrimonioides* (PE) ESMP

Oha, *Cyanea superba ssp. superba* (E) ESMP Expenditures

Kamakahala, *Labordia cyrtandrae* (PE) ESMP

Ma'aloa, *Neraudia angulata var. angulata* (E) ESMP Expenditures

Ma'aloa, *Neraudia angulata var. dentata* (E) ESMP Expenditures

No Common Name, *Pteris lidgatei* (E) ESMP Expenditures

**Snails**

Pupu Kuahiwi, *Achatinella apexfulva* (E) ESMP

**CONTIGUOUS****Plants**

No Common Name, *Abutilon sandwicense* (E) ESMP

Pauoa, *Ctenitis squamigera* (E) ESMP Expenditures

Haha Oha, *Cyanea grimesiana ssp. obatae* (E) ESMP Expenditures

Oha, *Delissea subcordata* (PE) ESMP

No Common Name, *Diplazium molokaiense* (E) ESMP

Fosberg's Love Grass, *Eragrostis fosbergii* (PE) ESMP

Mehamehame, *Flueggea neowawraea* (E) ESMP

Nehe, *Lipochaeta lobata var. leptophylla* (E) ESMP

Wawae'Iole, *Lycopodium nutans* (E) ESMP Expenditures

Kulu'i, *Nototrichium humile* (E) ESMP

No Common Name, *Phyllostegia mollis* (E) ESMP

Loulu, *Pritchardia kaalae* (PE) ESMP

No Common Name, *Schiedea nuttallii* (PE) ESMP

Popolo `Aiakeakua, *Solanum sandwicense* (E) ESMP Expenditures

No Common Name, *Stenogyne kanehoana* (E) ESMP Expenditures

No Common Name, *Tetramolopium lepidotum ssp. lepidotum* (E) ESMP

**Sea Girt National Guard Training Center, NJ-ARNG**

NGB

**County:** Monmouth, New Jersey

**POC:** Donald Beck

P.O. Box 251, Sea Girt, NJ 08750-0251

Attn: Superintendent Email: arrighi@dmava.state.nj.us

(908) 974-5950

No Species

**Seneca Army Depot Activity**

AMC

**County:** Seneca, New York**POC:** Michael Stofka

5786 State Route 96, Romulus, NY 14541-5001

Attn: SIOSE-IE Email: scooper@seneca-emh.army.mil  
(607) 869-1532

No Species

**Sierra Army Depot**

AMC

**County:** Lassen, California**POC:** Wayne Dreyer

Building 79, Herlong, CA 96113 Attn: SIOSI-ENV

Email: wdreyer@sierra-emh.army.mil (916) 827-4454

**BOTH ONSITE AND CONTIGUOUS****Birds**Peregrine Falcon, *Falco peregrinus* E(S/A) Restrictions ExpendituresBald Eagle, *Haliaeetus leucocephalus* (T) Restrictions Expenditures**Skelton Training Site, MO-NGB**

NGB

**County:** Cole, Missouri**POC:** Eugene Young2302 Militia Dr., Skelton Training Site, Jefferson City,  
MO 65101

Attn: NGMO-RPE-N (573) 526-9418

**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T) ESMP ExpendituresLeast Tern, *Sterna antillarum* (E) ESMP**CONTIGUOUS****Clams**Pink Mucket Pearlymussel, *Lampsilis abrupta (=orbiculata)* (E) ESMP**Fish**Sturgeon Chub, *Macrhybopsis (=Hybopsis) gelida* (C)Sicklefin Chub, *Macrhybopsis meeki* (C)Topeka Shiner, *Notropis topeka (=tristis)* (C)Pallid Sturgeon, *Scaphirhynchus albus* (E) ESMP**Mammal**Gray Bat, *Myotis grisescens* (E)



**St. George Armory, UT-ARNG**

NGB

**County:** Salt Lake, Utah**POC:** Douglas Johnson 12953 South Minuteman Drive, P.O. Box 1776, Draper, UT  
84020-1776 (801) 576-3960**BOTH ONSITE AND CONTIGUOUS****Plants**Dwarf Bearclaw Poppy, *Arctomecon humilis* (E) ESMP Restrictions**State Military Reservation, NH-ARNG**

NGB

**County:** Merrimack, New Hampshire**POC:** Zachary Boyajian 4 Pembroke Road, Concord, NH 03301-5652  
Attn: NHAG-FM-EV Email: boyajian@nh-ngnet.army.mil**CONTIGUOUS** (603) 228-1135x1439**Insects**Karner Blue Butterfly, *Lycaeides melissa samuelis* (E)**Stead Training Site, NV-ARNG**

NGB

**County:** Washoe, Nevada**POC:** Loren Brazell 2601 S. Carson St., Carson City, NV 89701  
Attn: USPFO-FMO-ENV (702) 887-7276**BOTH ONSITE AND CONTIGUOUS****Birds**Peregrine Falcon, *Falco peregrinus* E(S/A) ESMP Restrictions ExpendituresBald Eagle, *Haliaeetus leucocephalus* (T) ESMP Restrictions Expenditures**Sunflower Army Ammunition Plant**

AMC

**County:** Johnson, Kansas**POC:** Scott Smith P.O. Box 640, DeSoto, KS 66018-0640 Attn: SIOSF-NR  
Email: ssmith2@ria-emh2.army.mil (913) 583-3000x6964**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle *Haliaeetus leucocephalus* (T)**CONTIGUOUS****Birds**Peregrine Falcon, *Falco peregrinus* E(S/A)**Plants**Mead's Milkweed, *Asclepias meadii* (T)

## Sunny Point, 1303d Major Port Command

MTMC

**Counties:** Brunswick and New Hanover, North Carolina

**POC:** Tony Gaw

Jct Hwy. 133 and 87, Southport, NC 28461 Attn: MTESU-PW

Email: gawh@bayonne-emh3.army.mil (910) 457-8429

### BOTH ONSITE AND CONTIGUOUS

#### Birds

Bald Eagle, *Haliaeetus leucocephalus* (T)

Red-cockaded Woodpecker, *Picoides (=Dendrocopos) borealis* (E) Jeopardy ESMP  
Restrictions

#### Mammals

Eastern Cougar, *Felis concolor cougar* (E)

#### Plants

Rough-leaved Loosestrife, *Lysimachia asperulaefolia* (E) ESMP Expenditures

#### Reptile

American Alligator, *Alligator mississippiensis* T(S/A) ESMP

### CONTIGUOUS

#### Birds

Piping Plover, *Charadrius melodus* (T)

Peregrine Falcon, *Falco peregrinus* E(S/A)

Wood Stork, *Mycteria americana* (E)

Roseate Tern, *Sterna dougallii dougallii* (E)

#### Fish

Shortnose Sturgeon, *Acipenser brevirostrum* (E)

#### Mammals

West Indian (=Florida) Manatee, *Trichechus manatus* (E)

#### Plants

Seabeach Amaranth, *Amaranthus pumilus* (T)

Cooley's Meadowrue, *Thalictrum cooleyi* (E)

#### Reptiles

Loggerhead Sea Turtle, *Caretta caretta* (T)

Leatherback Sea Turtle, *Dermochelys coriacea* (E)

Kemp's (=Atlantic) Ridley Sea Turtle, *Lepidochelys kempii* (E)

Green Sea Turtle, *Chelonia mydas* (T)

## Tobyhanna Army Depot

AMC

**County:** Monroe, Pennsylvania

**POC:** Randy Didier

11 Hap Arnold Blvd., PA 18466-5086

Attn: SIOTY-RK-E

Email: rdidier@tobyhanna-emh3.army.mil (717) 895-7090

No Species

**Tooele Army Depot**

AMC

**County:** Tooele, Utah**POC:** Mason Walker

Building 501, Tooele, UT 84074 Attn: SIOTE-PWE-E

Email: siote@tooele-emh1.army.mil (801) 833-8733

**BOTH ONSITE AND CONTIGUOUS****Birds**American Peregrine Falcon, *Falco peregrinus anatum* (E)Bald Eagle, *Haliaeetus leucocephalus* (T)**Truman Training Site, MO-NGB**

NGB

**County:** Benton, Missouri**POC:** Eugene Young

2302 Militia Dr., Skelton Training Site, Jefferson City,

MO 65101 Attn: NGMO-RPE-N (573) 526-9418

**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T) ESMP Restrictions**CONTIGUOUS****Mammal**Gray Bat, *Myotis grisescens* (E)**Plants**Mead's Milkweed, *Asclepias meadii* (T)**Tullahoma Training Site**

NGB

**County:** Coffee, Tennessee**POC:** Harvey White

400 Industrial Blvd, Tullahoma, TN 37388

Attn: Facility Manager (615) 454-1964

**BOTH ONSITE AND CONTIGUOUS****Plants**Eggert's Sunflower, *Helianthus eggertii* (PT) ESMP Restrictions**CONTIGUOUS****Mammal**Gray Bat, *Myotis grisescens* (E)

**Twin Cities Army Ammunition Plant**

AMC

**County:** Ramsey, Minnesota**POC:** Douglas Rhead

4700 Hwy 10, Suite A, Arden Hills, MN 55112

Attn: SIOTC-NR

Email: drhead@R13503S1 (612) 633-2303x1666

**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T)**Ukemeleme Firing Range, HI-ARNG**

NGB

**County:** Honolulu, Hawaii**POC:** Melissa DumaranHawaii Army National Guard, 3949 Diamond Head Road,  
Honolulu, HI 96816-4495 Attn: Engineering-Environmental

Email: dumaran@hawaii.edu (808) 733-4265

No Species

**Umatilla Chemical Depot**

AMC

**County:** (NA), Oregon**POC:** Bob Nelson

Hermiston, OR 97838 Attn: SCBUL-EVS, Bldg. 32

(541) 564-5252

No Species

**Vancouver Barracks**

FORSCOM

**County:** (NA), Washington**POC:** c/o Bert BivingsHQ FORSCOM, Engineers Environmental Branch,  
Ft. McPherson, WA 30330-6000 Attn: AFPI-ENE

Email: bivings@ftmcphsn-emn1.army.mil (404) 669-7659

No Species

**Vint Hill Farms Station**

AMC

**County:** (NA), Virginia**POC:** c/o Rich ClewellU.S. Army Materiel Command, Installation and  
Services Activity, Rock Island, IL 61299-7194

Attn: AMXEN-M

Email: rclewell@ria-emh2.army.mil (309) 782-8252

No Species

**Virgin Islands Army National Guard**

NGB

**County:** Virgin Islands**POC:** Charles H. McGregor Jr. 4031 La Grande Princesse, Lot Ib, VI 00822-4853  
Attn: VI-CFMD-E (809) 778-2176No Species

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**Virginia Army National Guard**

NGB

**County:** (NA), Virginia**POC:** Eileen Williams VAFM-E PRN 160, 600 East Broad St. Richmond, VA 23219  
Attn: VAFM-E Email: eileen@osiris.uiuc.cso.edu  
(804) 775-9427No Species

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**Volunteer Army Ammunition Plant**

AMC

**County:** Hamilton, Tennessee**POC:** Gregory W. Lee P.O. Box 22607, Chattanooga, TN 37422-2607  
Attn: SIOHS-EC  
Email: glee1@ria-emh2.army.mil (423) 578-6276

ONSITE

**Plants**Large-flowered Skullcap, *Scutellaria montana* (E) ESMP

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**Walter Reed Army Medical Center**

MEDCOM

**County:** District of Columbia**POC:** Gilbert Gonzalez U.S. Army Medical Command, c/o 2050 Worth Road,  
Fort Sam Houston, TX 79234-6022 Attn: MCFA-E  
Email: gilbert\_gonzalez@smtplink.medcom.amedd.army.mil  
(210) 221-6441No Species

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**Wappapello Training Site, MO-ARNG**

NGB

**County:** Butler, Missouri**POC:** Eugene Young2302 Militia Dr., Skelton Training Site, Jefferson City, MO  
65101 Attn: NGMO-RPE-N (573) 526-9418**CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T)**Clams**Pink Mucket Pearlymussel, *Lampsilis abrupta (=orbiculata)* (E)**Plants**Pondberry, *Lindera melissifolia* (E)**Watervliet Arsenal**

AMC

**County:** (NA), New York**POC:** c/o Rich ClewellU.S. Army Materiel Command, Installation and Services  
Activity, Rock Island, IL 61299-7195 NY Attn: AMXEN-M  
Email: rclewell@ria-emh2.army.mil (309) 782-8252

No Species

**West Point, U.S. Military Academy**

USMA

**County:** Orange, New York**POC:** James BeemerU.S. Military Academy, West Point, NY 10996  
Attn: MAEN-EV-NR  
Email: yj6936@westpoint-emh2.army.mil  
(914) 938-2314**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T) ESMP Expenditures**Fish**Shortnose Sturgeon, *Acipenser brevirostrum* (E) ESMP**Western Kentucky Training Site, KY-ARNG**

NGB

**County:** Muhlenberg, Kentucky**POC:** CW4 Joe WilkinsHwy. 181 North, Greenville, KY 42345  
Attn: KG-WKYTS (502) 338-5541**BOTH ONSITE AND CONTIGUOUS****Mammal**Gray Bat, *Myotis grisescens* (E)

**White Sands Missile Range**

AMC

**County:** Dona Ana, New Mexico**POC:** Dave Holdermann  
Dave AndersonCommander, U.S. Army White Sands Missile  
Range, Attn: STEWS-NRES-E, WSMR, NM 88002  
Attn: NRES-E (505) 678-2641 (Holderman)  
(505) 678-7817 (Anderson)**BOTH ONSITE AND CONTIGUOUS****Birds**Northern Aplomado Falcon, *Falco femoralis septentrionalis* (E) ESMP Restrictions  
ExpendituresAmerican Peregrine Falcon, *Falco peregrinus anatum* (E) ESMP RestrictionsBald Eagle, *Haliaeetus leucocephalus* (T)**Plants**Todsens's Pennyroyal, *Hedeoma todsenii* (E) Restrictions Expenditures**CONTIGUOUS****Birds**Mountain Plover, *Charadrius montanus* (C)Southwestern Willow Flycatcher, *Empidonax traillii extimus* (E)Mexican Spotted Owl, *Strix occidentalis lucida* (T)**Wisconsin Army National Guard**

NGB

**County:** (All), Wisconsin**POC:** Kerry Nicholls2400 Wright Street, P.O. Box 14587, Madison, WI 53714-0587  
Attn: WIAR-F (608) 242-3359

No Species

**Yakima Training Center**

FORSCOM

**Counties:** Yakima and Kittitas, Washington**POC:** Margaret Pounds

AFZH-YT-DENR, Bldg. 810, Yakima, WA 98901

Attn: AFZH-YT-DENR Email: pounds@lewis-deh2.army.mil  
(509) 577-3402**BOTH ONSITE AND CONTIGUOUS****Birds**Bald Eagle, *Haliaeetus leucocephalus* (T) Restrictions Expenditures**Plants**Basalt Daisy, *Erigeron basalticus* (C)**CONTIGUOUS****Birds**Peregrine Falcon, *Falco peregrinus* E(S/A)

**Yuma Proving Ground**

AMC

**County:** Yuma, Arizona**POC:** Junior D. Kerns

Conservation Program Office, AZ 85365-9107

Attn: STEYP-ES-C Email: jkerns@yuma.emh1.army.mil

(520) 328-2148

**BOTH ONSITE AND CONTIGUOUS****Reptiles**Sonoran Population of the Desert Tortoise, *Gopherus agassizii* (Sonoran Population) T(S/A)

Expenditures

**ONSITE****Plants**Nichol's Turk's Head Cactus, *Echinocactus horizonthalonius* var. *nicholii* (E) Expenditures**63rd RSC****65th RSC****77th RSC****88th RSC****90th RSC****94th RSC****96th RSC**

USARC

**County:** NA**POC:** c/o Tom Sinclair

HQ USARCOM, 3800 N. Camp Creek Pkway SW,

Atlanta, GA Attn: AFRC-ENP-NC

Email: sinclair@usarc-emh1.army.mil (404) 629-8217

No Species



## References

- 16 U.S. Code (U.S.C.) 1536(a)(1); Army Regulation (AR) 420-74, Paragraph 6-2 *Natural Resource - Land, Forest, and Wildlife Management* (Headquarters, Department of the Army [HQDA], 25 February 1986); Federal Register (FR) 54:7539-7543, 265.7(B)(3)(b) [22 Feb 1989]:
- Schreiber, E.R., R.A. Shaw, A. Hill, and M.A. Reed, *Installation Summaries from the 1996 Survey of Threatened and Endangered species on Army Lands*, USACERL Technical Report 97/19 (December 1997).
- Shaw, R.A., E.R. Schreiber, and A. Hill, *The 1996 Survey of Threatened and Endangered species on Army lands: A Summary Report*, USACERL Technical Report 97/17 (December 1997).
- Shaw, R.A., and A. Hill, *Army-wide Threatened and Endangered Species Survey*, USACERL Technical Note 96-101 (USACERL, September 1996).
- Tazik, D.J., R.A. Sherman, and J.A. Courson, *Annotated Directory of Threatened and Endangered Wildlife on Selected U.S. Army Installations East of the Mississippi River*, USACERL Technical Report N-91/26 (USACERL, May 1991).

## Appendix A: Federally Threatened, Endangered, Proposed, and Candidate Species, with Corresponding Installations

*Abutilon sandwicense* No Common Name (E) Plant  
Schofield Barracks Military Reservation USARPAC

*Achatinella apexfulva* Pupu Kuahiwi (E) Snail  
Kawailoa TA USARPAC  
Schofield Barracks Military Reservation USARPAC

*Achatinella bulimoides* Pupu Kuahiwi (E) Snail  
Kawailoa TA USARPAC

*Achatinella byronii* Pupu Kuahiwi (E) Snail  
Kawailoa TA USARPAC  
Schofield Barracks Military Reservation USARPAC

*Achatinella curta* Pupu Kuahiwi (E) Snail  
Kahuku TA USARPAC

*Achatinella decipiens* Pupu Kuahiwi (E) Snail  
Kawailoa TA USARPAC  
Schofield Barracks Military Reservation USARPAC

*Achatinella dimorpha* Pupu Kuahiwi (E) Snail  
Kahuku TA USARPAC

*Achatinella leucorraphe* Pupu Kuahiwi (E) Snail  
Kawailoa TA USARPAC  
Schofield Barracks Military Reservation USARPAC

*Achatinella lila* Pupu Kuahiwi (E) Snail  
Kawailoa TA USARPAC

*Achatinella livida* Pupu Kuahiwi (E) Snail  
Kawailoa TA USARPAC

*Achatinella mustelina* Pupu Kuahiwi (E) Snail  
Makua Military Reservation USARPAC  
Schofield Barracks Military Reservation USARPAC

*Achatinella pulcherrima* Pupu Kuahiwi (E) Snail  
Kawailoa TA USARPAC

*Achatinella rosea* Pupu Kuahiwi (E) Snail  
Kawailoa TA USARPAC

*Achatinella sowerbyana* Pupu Kuahiwi (E) Snail  
Kahuku TA USARPAC  
Kawailoa TA USARPAC  
Schofield Barracks Military Reservation USARPAC

*Achatinella swiftii* Pupu Kuahiwi (E) Snail  
Kawailoa TA USARPAC  
Schofield Barracks Military Reservation USARPAC

*Achatinella valida* Pupu Kuahiwi (E) Snail  
Kahuku TA USARPAC

*Acipenser brevirostrum* Shortnose Sturgeon (E) Fish  
Aberdeen Proving Ground AMC  
Camp Smith, NY-ARNG NGB  
Delaware ARNG NGB  
Ft. Stewart & Hunter Army Airfield FORSCOM  
Sunny Point, 1303D Major Port Command MTMC  
West Point, US Military Academy USMA

*Aconitum noveboracense* Northern Wild Monkshood (T) Plant  
Ravenna AAP AMC

*Adenophorus periens* No Common Name (E) Plant  
Kahuku TA USARPAC  
Kawailoa TA USARPAC

*Alectryon macrococcus var. macrococcus* Mahoe Ala'alahua (E) Plant  
Makua Military Reservation USARPAC  
Schofield Barracks Military Reservation USARPAC

***Alligator mississippiensis*** American Alligator T(S/A) Reptile

Camp Blanding TS, FL-ARNG NGB  
Ft. Benning TRADOC  
Ft. Jackson TRADOC  
Ft. Rucker TRADOC  
Longhorn AAP AMC  
Louisiana AAP AMC  
Pine Bluff Arsenal AMC  
Redstone Arsenal AMC  
Sunny Point, 1303D Major Port Command MTMC

***Alsinidendron obovatum*** No Common Name (E) Plant

Makua Military Reservation USARPAC

***Alsinidendron trinerve*** No Common Name (E) Plant

Schofield Barracks Military Reservation USARPAC

***Amaranthus pumilus*** Seabeach Amaranth (T) Plant

Sunny Point, 1303D Major Port Command MTMC

***Amblyopsis rosae*** Ozark Cavefish (T) Fish

Camp Crowder, MO-NGB NGB

***Ambystoma californiense*** (=A. tigrinum c.) No Common Name (C) Amphibian

Ft. Huachuca TRADOC  
Ft. Hunter Liggett USARC

***Anas wyvilliana*** Hawaiian Duck (E) Bird

Aahoaka & Wailua River LTA, HI-ARNG NGB  
Anahola LTA, HI-ARNG NGB  
Dillingham TA USARPAC  
Keamuku LTA, HI-ARNG NGB  
Kekaha LTA, HI-ARNG NGB

***Anniella pulchra nigra*** California Black Legless Lizard (PE) Reptile

POM Annex TRADOC

***Aphelocoma coerulescens*** (=A. c. coerulescens) Florida Scrub Jay (T) Bird

Camp Blanding TS, FL-ARNG NGB

***Apios priceana*** Price's Potato Bean (T) Plant

Ft. Campbell FORSCOM  
Redstone Arsenal AMC

***Arctomecon humilis*** Dwarf Bearclaw Poppy (E) Plant

St. George Armory, UT-ARNG NGB

- Asclepias meadii* Mead's Milkweed (T) Plant  
Camp Clark, MO-NGB NGB  
Sunflower AAP AMC  
Truman TS, MO-NGB NGB
- Asplenium fragile var. insulare* Fragile Fern (E) Plant  
Pohakuloa TA USARPAC
- Astragalus jaegerianus* Lane Mountain Milk Vetch (C) Plant  
Ft. Irwin FORSCOM
- Banara vanderbiltii* Palo de Ramon (E) Plant  
Ft. Buchanan FORSCOM
- Bonamia menziesii* No Common Name (E) Plant  
Makua Military Reservation USARPAC
- Branchinecta lynchi* Vernal Pool Fairy Shrimp (T) Crustacean  
Camp Roberts, CA-ARNG NGB  
Ft. Hunter Liggett USARC
- Bufo microscaphus californicus* Arroyo Southwestern Toad (E) Amphibian  
Ft. Hunter Liggett USARC
- Buteo solitarius* Hawaiian (=Io) Hawk (E) Bird  
Keamuku LTA, HI-ARNG NGB  
Kekaha LTA, HI-ARNG NGB  
Pohakuloa TA USARPAC  
Pu'u Pa LTA, HI-ARNG NGB
- Buxus vahlii* Vahl Boxwood (E) Plant  
Ft. Buchanan FORSCOM
- Caesalpinia (=Mezoneuron) kawaiense* Uhiuhi (E) Plant  
Makua Military Reservation USARPAC
- Canis lupus* Gray Wolf (E) Mammal  
Ft. McCoy USARC  
Camp Ripley, MN-ARNG NGB
- Caretta caretta* Loggerhead Sea Turtle (T) Reptile  
Sunny Point, 1303D Major Port Command MTMC
- Cenchrus agrimonioides* Kamanomano (=Sandbur, Agrimony) (PE) Plant  
Makua Military Reservation USARPAC  
Schofield Barracks Military Reservation USARPAC

***Chamaesyce (=Euphorbia) deltoidea ssp. deltoidea*** Deltoid Spurge (E) Plant  
Martinez Reserve Center USARC

***Chamaesyce rockii*** Akoko (PE) Plant  
Kahuku TA USARPAC  
Kawailoa TA USARPAC  
Schofield Barracks Military Reservation USARPAC

***Charadrius alexandrinus nivosus*** Western Snowy Plover (T) Bird  
POM Annex TRADOC

***Charadrius melodus*** Piping Plover (T) Bird  
Camp Grafton, ND-ARNG NGB  
Ft. Riley FORSCOM  
Sunny Point, 1303D Major Port Command MTMC

***Charadrius montanus*** Mountain Plover (C) Bird  
Dugway Proving Ground AMC  
Ft. Carson FORSCOM  
Pinon Canyon Maneuver Site FORSCOM  
White Sands Missile Range AMC

***Chasiempis sandwichensis ibidis*** Oahu 'Elepaio (C) Bird  
Kahuku TA USARPAC  
Kawailoa TA USARPAC  
Makua Military Reservation USARPAC  
Schofield Barracks Military Reservation USARPAC

***Chelonia mydas*** Green Sea Turtle (T) Reptile  
Sunny Point, 1303D Major Port Command MTMC

***Chlorogalium purpureum var. purpureum*** Purple Amole (C) Plant  
Ft. Hunter Liggett USARC

***Chorizanthe pungens var. pungens*** Monterey Spineflower (T) Plant  
POM Annex TRADOC

***Chorizanthe robusta*** Robust Spineflower (E) Plant  
POM Annex TRADOC

***Cicindela puritana*** Puritan Tiger Beetle (T) Insect  
Aberdeen Proving Ground AMC

***Cirsium fontinale var. obispoense*** Chorro Creek Bog Thistle (E) Plant  
Camp San Luis Obispo, CA-ARNG NGB

*Clematis hirsutissima* var. *arizonica* Arizona Leather Flower (C) Plant  
Camp Navajo Military Reservation. AZ-ARNG NGB

*Clemmys muhlenbergii* Bog (Northern Population) Turtle (C) Reptile  
Letterkenny Army Depot AMC  
Picatinny Arsenal Tacom-ARDEC AMC

*Colubrina oppositifolia* Kauila (E) Plant  
Keamuku LTA, HI-ARNG NGB  
Pu'u Pa LTA, HI-ARNG NGB

*Corvus hawaiiensis* Alala Hawaiian Crow (E) Bird  
Pohakuloa TA USARPAC

*Coryphantha sneedii* var. *sneedii* (= *Escobaria* s., *Mammillaria* s.) Sneed Pincushion Cactus (E)  
Plant  
Ft. Bliss TRADOC

*Ctenitis squamigera* Pauoa (E) Plant  
Makua Military Reservation USARPAC  
Schofield Barracks Military Reservation USARPAC

*Cyanea acuminata* Haha Oha (PE) Plant  
Kawailoa TA USARPAC  
Schofield Barracks Military Reservation USARPAC

*Cyanea grimesiana* ssp. *grimesiana* Haha Oha (E) Plant  
Kahuku TA USARPAC  
Kawailoa TA USARPAC  
Schofield Barracks Military Reservation USARPAC

*Cyanea grimesiana* ssp. *obatae* Haha Oha (E) Plant  
Schofield Barracks Military Reservation USARPAC

*Cyanea koolauensis* Haha Oha (PE) Plant  
Kahuku TA USARPAC  
Kawailoa TA USARPAC  
Schofield Barracks Military Reservation USARPAC

*Cyanea longiflora* Haha Oha (PE) Plant  
Kahuku TA USARPAC  
Kawailoa TA USARPAC  
Schofield Barracks Military Reservation USARPAC

*Cyanea superba* ssp. *superba* Oha (E) Plant  
Makua Military Reservation USARPAC  
Schofield Barracks Military Reservation USARPAC

- Cynomys parvidens* Utah Prairie Dog (T) Mammal  
Cedar City Armory, UT-ARNG NGB
- Cyperus trachysanthos* Pu`uka`a (PE) Plant  
Dillingham TA USARPAC  
Ft. Ruger, HI-ARNG NGB
- Cyprinella caerulea* Blue Shiner (T) Fish  
Ft. McClellan TRADOC
- Cyrtandra dentata* Ha'iwale (PE) Plant  
Kawailoa TA USARPAC
- Cyrtandra subumbellata* Ha'iwale (PE) Plant  
Schofield Barracks Military Reservation USARPAC
- Cyrtandra viridiflora* Ha'iwale (PE) Plant  
Kawailoa TA USARPAC
- Daphnopsis hellerana* No Common Name (E) Plant  
Ft. Buchanan FORSCOM
- Delissea subcordata* `Oha (PE) Bird  
Jefferson Proving Ground AMC  
Kawailoa TA USARPAC  
Makua Military Reservation USARPAC  
Schofield Barracks Military Reservation USARPAC
- Dendroica chrysoparia* Golden-cheeked Warbler (E) Bird  
Ft. Hood FORSCOM  
Ft. Sam Houston MEDCOM
- Dendroica kirtlandii* Kirtland's Warbler (E) Bird  
Camp Grayling, MI-ARNG NGB
- Dermochelys coriacea* Leatherback Sea Turtle (E) Reptile  
Sunny Point, 1303D Major Port Command MTMC
- Diellia falcata* No Common Name (E) Plant  
Makua Military Reservation USARPAC  
Schofield Barracks Military Reservation USARPAC
- Diplazium molokaiense* No Common Name (E) Plant  
Schofield Barracks Military Reservation USARPAC
- Dromus dromas* Dromedary Pearly Mussel (E) Clam  
Ft. Campbell FORSCOM



- Drymarchon corais couperi* Eastern Indigo Snake (T) Reptile  
Camp Blanding TS, FL-ARNG NGB  
Ft. Stewart & Hunter Army Airfield FORSCOM
- Dubautia herbstobatae* Na`ena`e (E) Plant  
Makua Military Reservation USARPAC
- Echinacea laevigata* Smooth Coneflower (E) Plant  
Ft. Jackson TRADOC  
Leesburg TS, SC-ARNG NGB  
Radford AAP AMC
- Echinocactus horizonthalonius var. nicholii* Nichol's Turk's Head Cactus (E) Plant  
Yuma Proving Ground AMC
- Echinocereus fendleri var. kuenzleri* Kuenzler Hedgehog Cactus (E) Plant  
Ft. Bliss TRADOC
- Empidonax traillii extimus* Southwestern Willow Flycatcher (E) Bird  
Clark County TS, NV-ARNG NGB  
Ft. Bliss TRADOC  
Ft. Huachuca TRADOC  
White Sands Missile Range AMC
- Epicrates inornatus* Puerto Rican Boa (E) Reptile  
Ft. Buchanan FORSCOM
- Epioblasma walkeri* Tan Riffleshell (E) Clam  
Ft. Campbell FORSCOM
- Eragrostis fosbergii* Fosberg's Love Grass (PE) Plant  
Schofield Barracks Military Reservation USARPAC
- Erigeron basalticus* Basalt Daisy (C) Plant  
Yakima TC FORSCOM
- Erigeron lemmonii* Lemmon Fleabane (C) Plant  
Ft. Huachuca TRADOC
- Etheostoma cragini* Arkansas Darter (C) Fish  
Camp Crowder, MO-NGB NGB  
Ft. Carson FORSCOM
- Etheostoma sellare* Maryland Darter (E) Fish  
Aberdeen Proving Ground AMC

***Eugenia koolauensis*** Nioi (E) Plant

Kahuku TA USARPAC  
Kawailoa TA USARPAC

***Euphilotes enoptes smithi*** Smith's Blue Butterfly (E) Insect

POM Annex TRADOC

***Euphorbia haeleleana*** Akoko (PE) Plant

Makua Military Reservation USARPAC

***Falco femoralis septentrionalis*** Northern Aplomado Falcon (E) Bird

Ft. Bliss TRADOC  
White Sands Missile Range AMC

***Falco peregrinus*** Peregrine Falcon E(S/A) Bird

Aberdeen Proving Ground AMC  
Camp Navajo Military Reservation. AZ-ARNG NGB  
Camp Smith, NY-ARNG NGB  
Devens RFTA USARC  
Ft. Campbell FORSCOM  
Ft. Eustis TRADOC  
Ft. Hood FORSCOM  
Ft. Huachuca TRADOC  
Ft. McCoy USARC  
Ft. Riley FORSCOM  
Sierra Army Depot AMC  
Stead TS, NV-ARNG NGB  
Sunflower AAP AMC  
Sunny Point, 1303D Major Port Command MTMC  
Yakima TC FORSCOM

***Falco peregrinus anatum*** American Peregrine Falcon (E) Bird

Dugway Proving Ground AMC  
Ft. Bliss TRADOC  
Ft. Carson FORSCOM  
Ft. Greely USARPAC  
Ft. Hunter Liggett USARC  
Ft. Richardson USARPAC  
Ft. Wainwright USARPAC  
Picatinny Arsenal Tacom-ARDEC AMC  
Pinon Canyon Maneuver Site FORSCOM  
Redstone Arsenal AMC  
Tooele Army Depot AMC  
White Sands Missile Range AMC

***Felis concolor coryi*** Florida Panther (E) Mammal

Camp Blanding TS, FL-ARNG NGB

*Felis concolor cougar* Eastern Cougar (E) Mammal  
Sunny Point, 1303D Major Port Command MTMC

*Flueggea neowawraea* Mehamehame (E) Plant  
Makua Military Reservation USARPAC  
Schofield Barracks Military Reservation USARPAC

*Fulica americana alai* Hawaiian Coot (E) Bird  
Dillingham TA USARPAC  
Kekaha LTA, HI-ARNG NGB

*Gallinula chloropus sandvicensis* Hawaiian Gallinule (E) Bird  
Aahoaka & Wailua River LTA, HI-ARNG NGB  
Dillingham TA USARPAC  
Kekaha LTA, HI-ARNG NGB

*Gardenia mannii* Nanu (PE) Plant  
Kahuku TA USARPAC  
Kawailoa TA USARPAC  
Schofield Barracks Military Reservation USARPAC

*Gilia tenuiflora ssp. arenaria* Monterey Sand Gilia (E) Plant  
POM Annex TRADOC

*Gopherus agassizii* Desert Tortoise (T) Reptile  
Clark County TS, NV-ARNG NGB  
Ft. Irwin FORSCOM

*Gopherus agassizii* Sonoran Population of the Desert Tortoise T(S/A) Reptile  
Yuma Proving Ground AMC

*Gopherus polyphemus* Gopher Tortoise (T) Reptile  
Camp Shelby, MS-ARNG NGB

*Grus americana* Whooping Crane (E) Bird  
Ft. Hood FORSCOM

*Gymnogyps californianus* California Condor (E) Bird  
Ft. Hunter Liggett USARC

*Haliaeetus leucocephalus* Bald Eagle (T) Bird  
Aberdeen Proving Ground AMC  
Adelphi Army Research Labs AMC  
Atterbury Reserve Forces TA, IN-ARNG NGB  
Camp Blanding TS, FL-ARNG NGB  
Camp Crowder, MO-NGB NGB  
Camp Grayling, MI-ARNG NGB

*(Haliaeetus leucocephalus* - Continued)

Camp Guernsey, WY-ARNG NGB  
Camp Joseph T. Robinson, AR-ARNG NGB  
Camp Murray, WA-ARNG NGB  
Camp Navajo Military Reservation. AZ-ARNG NGB  
Camp Ripley, MN-ARNG NGB  
Camp Roberts, CA-ARNG NGB  
Camp Smith, NY-ARNG NGB  
Devens RFT.A USARC  
Dugway Proving Ground AMC  
Ft. Knox TRADOC  
Ft. A.P. Hill MDW  
Ft. Belvoir MDW  
Ft. Benning TRADOC  
Ft. Bliss TRADOC  
Ft. Campbell FORSCOM  
Ft. Carson FORSCOM  
Ft. Eustis TRADOC  
Ft. Gordon TRADOC  
Ft. Hood FORSCOM  
Ft. Hunter Liggett USARC  
Ft. Jackson TRADOC  
Ft. Lee TRADOC  
Ft. Lewis FORSCOM  
Ft. McCoy USARC  
Ft. Pickett USARC  
Ft. Riley FORSCOM  
Ft. Rucker TRADOC  
Ft. Stewart & Hunter Army Airfield FORSCOM  
Holston AAP AMC  
Macon TS, MO-NGB NGB  
Newport Chemical Depot AMC  
Picatinny Arsenal Tacom-ARDEC AMC  
Pine Bluff Arsenal AMC  
Pinon Canyon Maneuver Site FORSCOM  
Redstone Arsenal AMC  
Rock Island Arsenal AMC  
Savanna Army Depot Activity AMC  
Skelton TS, MO-NGB NGB  
Stead TS, NV-ARNG NGB  
Sunflower AAP AMC  
Sunny Point, 1303D Major Port Command MTMC  
Tooele Army Depot AMC  
Truman TS, MO-NGB NGB  
Twin Cities AAP AMC  
Wappapello TS, MO-NGB NGB  
West Point, US Military Academy USMA  
White Sands Missile Range AMC  
Yakima TC FORSCOM

***Haplostachys haplostachya*** No Common Name (E) Plant

Keamuku LTA, HI-ARNG NGB

Pohakuloa TA USARPAC

***Hedeoma todsenii*** Todsen's Pennyroyal (E) Plant

Ft. Bliss TRADOC

White Sands Missile Range AMC

***Hedyotis coriacea*** Kio'ele (E) Plant

Pohakuloa TA USARPAC

***Hedyotis parvula*** No Common Name (E) Plant

Makua Military Reservation USARPAC

***Helianthus eggertii*** Eggert's Sunflower (PT) Plant

Tullahoma TS, TN-ARNG NGB

***Helonias bullata*** Swamp Pink (T) Plant

Ft. A.P. Hill MDW

***Hemignathus munroi (=wilsoni)*** `Akiapola`au (Honeycreeper) (E) Bird

Pohakuloa TA USARPAC

***Hesperomannia arborescens*** No Common Name (E) Plant

Kahuku TA USARPAC

Kawailoa TA USARPAC

Schofield Barracks Military Reservation USARPAC

***Hibiscus brackenridgei ssp. mokuleianus*** Ma'o Hau Hele (E) Plant

Dillingham TA USARPAC

***Himantopus mexicanus (=himantopus) knudseni*** Hawaiian (=Ae`o) Stilt (E) Bird

Dillingham TA USARPAC

Kekaha LTA, HI-ARNG NGB

***Howellia aquatilis*** Water Howellia (T) Plant

Ft. Lewis FORSCOM

***Hymenoxys texana*** Texas Prairie Dawn-flower (=Texas Bitterweed) (E) Plant

Addicks Reservoir, TX-ARNG NGB

***Isodendrion hosakae*** Aupaka (E) Plant

Keamuku LTA, HI-ARNG NGB

***Isodendrion laurifolium*** Aupaka (PE) Plant

Schofield Barracks Military Reservation USARPAC

- Isoetes louisianensis* Louisiana Quillwort (E) Plant  
Camp Shelby, MS-ARNG NGB
- Isotria medeoloides* Small Whorled Pogonia (T) Plant  
Ft. A.P. Hill MDW  
Regional Training Institute, NH-ARNG NGB
- Labordia cyrtandrae* Kamakahala (PE) Plant  
Kawailoa TA USARPAC  
Schofield Barracks Military Reservation USARPAC
- Lampsilis abrupta (=orbiculata)* Pink Mucket Pearlymussel (E) Clam  
Ft. Campbell FORSCOM  
Skelton TS, MO-NGB NGB  
Wappapello TS, MO-NGB NGB
- Lampsilis higginsii* Higgins' Eye Pearlymussel (E) Clam  
Savanna Army Depot Activity AMC
- Lasiurus cinereus semotus* Hawaiian Hoary Bat (E) Mammal  
Aahoaka & Wailua River LTA, HI-ARNG NGB  
Kawailoa TA USARPAC  
Keamuku LTA, HI-ARNG NGB  
Keaukaha Military Reservation, HI-ARNG NGB  
Kekaha LTA, HI-ARNG NGB  
Pohakuloa TA USARPAC  
Pu'u Pa LTA, HI-ARNG NGB  
Schofield Barracks Military Reservation USARPAC
- Lepidium arbuscula* Anaunau (PE) Plant  
Makua Military Reservation USARPAC  
Schofield Barracks Military Reservation USARPAC
- Lepidochelys kempii* Kemp's (=Atlantic) Ridley Sea Turtle (E) Reptile  
Sunny Point, 1303D Major Port Command MTMC
- Leptonycteris curasoae (=sanborni) yerbabuena* Lesser (=Sanborn's) Long-nosed Bat (E) Mammal  
Ft. Huachuca TRADOC
- Lespedeza leptostachya* Prairie Bush Clover (T) Plant  
Badger AAP AMC
- Lilaeopsis schaffneriana ssp. recurva* Huachuca Water-umbel (PE) Plant  
Ft. Huachuca TRADOC

*Lindera melissifolia* Pondberry (E) Plant  
Wappapello TS, MO-NGB NGB

*Lipochaeta lobata var. leptophylla* Nehe (E) Plant  
Schofield Barracks Military Reservation USARPAC

*Lipochaeta tenuifolia* Nehe (E) Plant  
Makua Military Reservation USARPAC

*Lipochaeta venosa* No Common Name (E) Plant  
Keamuku LTA, HI-ARNG NGB  
Pu'u Pa LTA, HI-ARNG NGB

*Lobelia gaudichaudii ssp. koolauensis* Haha Oha (PE) Plant  
Kawailoa TA USARPAC

*Lobelia niihauensis* Haha Oha (E) Plant  
Makua Military Reservation USARPAC  
Schofield Barracks Military Reservation USARPAC

*Lobelia oahuensis* Haha Oha (E) Plant  
Kawailoa TA USARPAC  
Schofield Barracks Military Reservation USARPAC

*Loxioides bailleui* Palila (E) Bird  
Pohakuloa TA USARPAC

*Loxops coccineus coccineus* Hawaii 'Akepa (E) Bird  
Keamuku LTA, HI-ARNG NGB  
Pohakuloa TA USARPAC  
Pu'u Pa LTA, HI-ARNG NGB

*Lycæides melissa samuelis* Karner Blue Butterfly (E) Insect  
Ft. McCoy USARC  
State Military Reservation, NH-ARNG NGB

*Lycopodium nutans* Wawae'Iole (E) Plant  
Kawailoa TA USARPAC  
Schofield Barracks Military Reservation USARPAC

*Lysimachia asperulaefolia* Rough-leaved Loosestrife (E) Plant  
Ft. Bragg FORSCOM  
Ft. Jackson TRADOC  
Leesburg TS, SC-ARNG NGB  
Sunny Point, 1303D Major Port Command MTMC

***Macrhybopsis (=Hybopsis) gelida*** Sturgeon Chub (C) Fish

Ft. Riley FORSCOM  
Skelton TS, MO-NGB NGB

***Macrhybopsis meeki*** Sicklefin Chub (C) Fish

Skelton TS, MO-NGB NGB

***Manduca blackburni*** Blackburn's Sphinx Moth (C) Insect

Kanaio LTA, HI-ARNG NGB

***Marshallia mohrii*** Mohr's Barbara Buttons (T) Plant

Ft. McClellan TRADOC

***Melicope lydgatei*** Alani (E) Plant

Kawailoa TA USARPAC

***Monachus schauinslandi*** Hawaiian Monk Seal (E) Mammal

Dillingham TA USARPAC

***Mycteria americana*** Wood Stork (E) Bird

Camp Blanding TS, FL-ARNG NGB  
Ft. Benning TRADOC  
Ft. Gordon TRADOC  
Ft. Stewart & Hunter Army Airfield FORSCOM  
Sunny Point, 1303D Major Port Command MTMC

***Myotis grisescens*** Gray Bat (E) Mammal

Camp Crowder, MO-NGB NGB  
Ft. Knox TRADOC  
Ft. Campbell FORSCOM  
Ft. McClellan TRADOC  
Ft. Rucker TRADOC  
Indiana AAP AMC  
Redstone Arsenal AMC  
Skelton TS, MO-NGB NGB  
Truman TS, MO-NGB NGB  
Tulahoma TS, TN-ARNG NGB  
Western Kentucky TS NGB

***Myotis sodalis*** Indiana Bat (E) Mammal

Ft. Knox TRADOC  
Ft. Campbell FORSCOM  
Indiana AAP AMC  
Jefferson Proving Ground AMC  
Macon TS, MO-NGB NGB  
Picatinny Arsenal Tacom-ARDEC AMC  
Ravenna AAP AMC  
Savanna Army Depot Activity AMC



*Myrsine juddii* Kolea (PE) Plant  
Kawailoa TA USARPAC

*Neonympha mitchellii francisci* Saint Francis' Satyr Butterfly (E) Insect  
Ft. Bragg FORSCOM

*Neraudia angulata var. angulata* Ma'aloa (E) Plant  
Makua Military Reservation USARPAC  
Schofield Barracks Military Reservation USARPAC

*Neraudia angulata var. dentata* Ma'aloa (E) Plant  
Makua Military Reservation USARPAC  
Schofield Barracks Military Reservation USARPAC

*Neraudia ovata* Ma'aloa (PE) Plant  
Pohakuloa TA USARPAC

*Nerodia erythrogaster neglecta* Northern Copperbelly Water Snake (PT) Reptile  
Ft. Campbell FORSCOM

*Nesothen (=Branta) sandvicensis* Hawaiian (=Nene) Goose (E) Bird  
Keamuku LTA, HI-ARNG NGB  
Kekaha LTA, HI-ARNG NGB  
Pohakuloa TA USARPAC

*Nicrophorus americanus* American Burying Beetle (E) Insect  
Camp Crowder, MO-NGB NGB  
Camp Gruber, OK-ARNG NGB  
Ft. Chaffee TRADOC  
McAlester AAP AMC

*Nothoestrum breviflorum* Aiea (E) Plant  
Keamuku LTA, HI-ARNG NGB  
Pu'u Pa LTA, HI-ARNG NGB

*Nototrichium humile* Kulu'i (E) Plant  
Dillingham TA USARPAC  
Makua Military Reservation USARPAC  
Schofield Barracks Military Reservation USARPAC

*Notropis topeka (=tristis)* Topeka Shiner (C) Fish  
Ft. Riley FORSCOM  
Skelton TS, MO-NGB NGB

*Obovaria retusa* Ring Pink (E) Clam  
Ft. Campbell FORSCOM

***Oncorhynchus clarki stomias*** Greenback Cutthroat Trout (T) Fish  
Ft. Carson FORSCOM

***Oreomystis (=Loxops) mana*** Hawaii Creeper (E) Bird  
Keamuku LTA, HI-ARNG NGB  
Pohakuloa TA USARPAC  
Pu'u Pa LTA, HI-ARNG NGB

***Ottoschulzia rhodoxylon*** Palo de Rosa (E) Plant  
Ft. Buchanan FORSCOM

***Palaemonias alabamiae*** Alabama Cave Shrimp (E) Crustacean  
Redstone Arsenal AMC

***Paroreomyza (=Oreomystis, =Loxops) flammea*** Molokai (=Kakawahie) Creeper (E) Bird  
Kawailoa TA USARPAC  
Makua Military Reservation USARPAC  
Schofield Barracks Military Reservation USARPAC

***Phyllostegia hirsuta*** No Common Name (PE) Plant  
Kahuku TA USARPAC  
Schofield Barracks Military Reservation USARPAC  
Kawailoa TA USARPAC

***Phyllostegia mollis*** No Common Name (E) Plant  
Schofield Barracks Military Reservation USARPAC

***Phyllostegia parviflora var. parviflora*** No Common Name (E) Plant  
Kawailoa TA USARPAC

***Picoides (=Dendrocopos) borealis*** Red-cockaded Woodpecker (E) Bird  
Camp Beauregard, LA-ARNG NGB  
Camp Blanding TS, FL-ARNG NGB  
Camp Shelby, MS-ARNG NGB  
Ft. Benning TRADOC  
Ft. Bragg FORSCOM  
Ft. Gordon TRADOC  
Ft. Jackson TRADOC  
Ft. McClellan TRADOC  
Ft. Polk FORSCOM  
Ft. Stewart & Hunter Army Airfield FORSCOM  
Leesburg TS, SC-ARNG NGB  
Sunny Point, 1303D Major Port Command MTMC

***Piperia yadonii*** Yadon's Piperia (PE) Plant  
POM Annex TRADOC  
Presidio of Monterey (POM) TRADOC

- Plantago princeps var. longibracteata* Laukahi Kuahiwi (E) Plant  
Kawailoa TA USARPAC
- Plantago princeps var. princeps* Laukahi Kuahiwi (E) Plant  
Makua Military Reservation USARPAC
- Platanthera holochila* No Common Name (PE) Plant  
Kawailoa TA USARPAC
- Plethobasus cooperianus* Orange Footed Pearly Mussel (E) Clam  
Ft. Campbell FORSCOM
- Pleurobema plenum* Rough Pigtoe (E) Clam  
Ft. Campbell FORSCOM
- Polygyriscus virginianus* Virginia Fringed Mountain Snail (E) Snail  
Radford AAP AMC
- Portulaca sclerocarpa* Po'e (E) Plant  
Keamuku LTA, HI-ARNG NGB  
Pohakuloa TA USARPAC  
Pu'u Pa LTA, HI-ARNG NGB
- Pritchardia kaalae* Loulu (PE) Plant  
Makua Military Reservation USARPAC  
Schofield Barracks Military Reservation USARPAC
- Psittirostra psittacea* O'u (E) Bird  
Pohakuloa TA USARPAC
- Pteris lidgatei* No Common Name (E) Plant  
Kawailoa TA USARPAC  
Schofield Barracks Military Reservation USARPAC
- Pterodroma phaeopygia sandwichensis* Hawaiian Dark-rumped Petrel (E) Bird  
Kanaio LTA, HI-ARNG NGB  
Pohakuloa TA USARPAC
- Ptilimnium nodosum* Harperella (E) Plant  
Lil Aaron Straus Wilderness Area, MD-ARNG NGB
- Puffinus auricularis (=puffinus) newelli* Newell's Townsend's (Formerly Manx) (=A`o) Shearwater  
(T) Bird  
Aahoaka & Wailua River LTA, HI-ARNG NGB
- Pyrgulopsis thompsoni* Huachuca Springsnail (C) Snail  
Ft. Huachuca TRADOC

***Quadrula fragosa*** Winged Mapleleaf Mussel (E) Clam  
Ft. Campbell FORSCOM

***Rana aurora draytoni*** California Red-legged Frog (PE) Amphibian  
Camp San Luis Obispo, CA-ARNG NGB  
Ft. Hunter Liggett USARC  
Parks RFTA USARC  
POM Annex TRADOC

***Rana pretiosa*** Spotted Frog (C) Amphibian  
Dugway Proving Ground AMC  
Ft. Lewis FORSCOM

***Rana subaquavocalis*** Ramsey Canyon Leopard Frog (C) Amphibian  
Ft. Huachuca TRADOC

***Rhododendron chapmanii*** Chapman's Rhododendron (E) Plant  
Camp Blanding TS, FL-ARNG NGB

***Rhus michauxii*** Michaux's Sumac (E) Plant  
Ft. Bragg FORSCOM  
Ft. Pickett USARC

***Rollandia crispa*** [*Cyanea crispa*] Haha Oha (E) Plant  
Kawailoa TA USARPAC

***Rumex orthoneurus*** Blumer's Dock (C) Plant  
Ft. Huachuca TRADOC

***Salvelinus confluentus*** Bull Trout (C) Fish  
Ft. Lewis FORSCOM

***Sanicula mariversa*** No Common Name (E) Plant  
Makua Military Reservation USARPAC

***Sanicula purpurea*** No Common Name (PE) Plant  
Kawailoa TA USARPAC  
Schofield Barracks Military Reservation USARPAC

***Scaphirhynchus albus*** Pallid Sturgeon (E) Fish  
Skelton TS, MO-NGB NGB

***Schiedea hookeri*** No Common Name (PE) Plant  
Makua Military Reservation USARPAC  
Schofield Barracks Military Reservation USARPAC

- Schiedea kealiae* Ma`oli`oli (PE) Plant  
Dillingham TA USARPAC
- Schiedea nuttallii* No Common Name (PE) Plant  
Makua Military Reservation USARPAC  
Schofield Barracks Military Reservation USARPAC
- Schwalbea americana* American Chaffseed (E) Plant  
Ft. Bragg FORSCOM
- Scutellaria montana* Large-flowered Skullcap (E) Plant  
Volunteer AAP AMC
- Sesbania tomentosa* Ohai (E) Plant  
Kanaio LTA, HI-ARNG NGB
- Silene hawaiiensis* Hawaiian Catchfly (T) Plant  
Pohakuloa TA USARPAC
- Silene lanceolata* Lanceleaf Catchfly (E) Plant  
Makua Military Reservation USARPAC  
Pohakuloa TA USARPAC
- Solanum incompletum* Spiny Popolo (E) Plant  
Pohakuloa TA USARPAC
- Solanum sandwicense* Popolo `Aiakeakua (E) Plant  
Kahuku TA USARPAC  
Schofield Barracks Military Reservation USARPAC
- Solidago houghtonii* Houghton's Goldenrod (T) Plant  
Camp Grayling, MI-ARNG NGB
- Spermolepis hawaiiensis* Hawaiian Parsley (E) Plant  
Makua Military Reservation USARPAC  
Pohakuloa TA USARPAC
- Speyeria zerene hippolyta* Oregon Silverspot Butterfly (T) Insect  
Camp Rilea, OR-ARNG NGB
- Spiranthes diluvialis* Ute Ladies'-tresses (T) Plant  
Dugway Proving Ground AMC  
Ft. Carson FORSCOM
- Stenogyne angustifolia* No Common Name (E) Plant  
Pohakuloa TA USARPAC  
Pu'u Pa LTA, HI-ARNG NGB

- Stenogyne kanehoana* No Common Name (E) Plant  
Schofield Barracks Military Reservation USARPAC
- Sterna antillarum* Least Tern (E) Bird  
Ft. Riley FORSCOM  
Skelton TS, MO-NGB NGB
- Sterna dougallii dougallii* Roseate Tern (E) Bird  
Sunny Point, 1303D Major Port Command MTMC
- Strix occidentalis caurina* Northern Spotted Owl (T) Bird  
Ft. Lewis FORSCOM
- Strix occidentalis lucida* Mexican Spotted Owl (T) Bird  
Camp Navajo Military Reservation. AZ-ARNG NGB  
Ft. Bliss TRADOC  
Ft. Carson FORSCOM  
Ft. Huachuca TRADOC  
White Sands Missile Range AMC
- Tetramolopium arenarium* Mauna Kea Pamakani (E) Plant  
Pohakuloa TA USARPAC  
Keamuku LTA, HI-ARNG NGB  
Pu'u Pa LTA, HI-ARNG NGB
- Tetramolopium filiforme var. polyphyllum* No Common Name (E) Plant  
Makua Military Reservation USARPAC
- Tetramolopium lepidotum ssp. lepidotum* No Common Name (E) Plant  
Makua Military Reservation USARPAC  
Schofield Barracks Military Reservation USARPAC
- Tetraplasandra gymnocarpa* `Ohe`ohe (E) Plant  
Kahuku TA USARPAC  
Kawailoa TA USARPAC  
Schofield Barracks Military Reservation USARPAC
- Thalictrum cooleyi* Cooley's Meadowrue (E) Plant  
Sunny Point, 1303D Major Port Command MTMC
- Trichechus manatus* West Indian (=Florida) Manatee (E) Mammal  
Sunny Point, 1303D Major Port Command MTMC
- Trifolium stoloniferum* Running Buffalo Clover (E) Plant  
Bluegrass Army Depot AMC

*Trillium reliquum* Relict Trillium (E) Plant

Ft. Benning TRADOC

*Urera kaalae* Opuhe (E) Plant

Schofield Barracks Military Reservation USARPAC

*Ursus americanus floridanus* Florida Black Bear (C) Mammal

Camp Blanding TS, FL-ARNG NGB

*Vigna o-wahuensis* No Common Name (E) Plant

Keamuku LTA, HI-ARNG NGB

*Viola chamissoniana ssp. chamissoniana* Pamakani (E) Plant

Makua Military Reservation USARPAC

Schofield Barracks Military Reservation USARPAC

*Viola oahuensis* No Common Name (PE) Plant

Kawailoa TA USARPAC

Schofield Barracks Military Reservation USARPAC

*Vireo atricapillus* Black-capped Vireo (E) Bird

Camp Barkeley, TX-ARNG NGB

Ft. Hood FORSCOM

Ft. Sam Houston MEDCOM

Ft. Sill TRADOC

*Vireo bellii pusillus* Least Bell's Vireo (E) Bird

Camp San Luis Obispo, CA-ARNG NGB

Ft. Hunter Liggett USARC

*Vulpes macrotis mutica* San Joaquin Kit Fox (E) Mammal

Camp Roberts, CA-ARNG NGB

Ft. Hunter Liggett USARC

Parks RFTA USARC

*Vulpes velox* Swift Fox (C) Mammal

Pinon Canyon Maneuver Site FORSCOM

*Xyris tennesseensis* Tennessee Yellow-eyed Grass (E) Plant

Anniston Army Depot AMC

Ft. McClellan TRADOC

*Zanthoxylum hawaiiense* A'e (E) Plant

Keamuku LTA, HI-ARNG NGB

Pohakuloa TA USARPAC

## Appendix B-1: T&E Species with Critical Habitat, by Scientific Name

Scientific Name	Common Name	Occurrence	Installation	MACOM
<i>Gopherus agassizii</i>	Desert Tortoise	Both	Ft. Irwin	FORSCOM
<i>Loxioides bailleui</i>	Palila	Both	Pohakuloa TA	USARPAC
<i>Speyeria zerene hippolyta</i>	Oregon Silverspot Butterfly	Onsite	Camp Rilea	NGB
<i>Strix occidentalis caurina</i>	Northern Spotted Owl	Onsite	Ft. Lewis	FORSCOM
<i>Strix occidentalis lucida</i>	Mexican Spotted Owl	Both	Camp Navajo Military Reservation	NGB
		Both	Ft. Huachuca	TRADOC



## Appendix B-2: Installations that have T&E Species with Critical Habitat

Installation	MACOM	Scientific Name	Common Name	Occurrence
Camp Navajo Military Reservation	NGB	<i>Strix occidentalis lucida</i>	Mexican Spotted Owl	Both
Camp Rilea	NGB	<i>Speyeria zerene hippolyta</i>	Oregon Silverspot Butterfly	Onsite
Ft. Huachuca	TRADOC	<i>Strix occidentalis lucida</i>	Mexican Spotted Owl	Both
Ft. Irwin	FORSCOM	<i>Gopherus agassizii</i>	Desert Tortoise	Both
Ft. Lewis	FORSCOM	<i>Strix occidentalis caurina</i>	Northern Spotted Owl	Onsite
Pohakuloa TA	USARPAC	<i>Loxioides bailleui</i>	Palila	Both

## Appendix C-1: Listing of T&E Species that have had a Biological Assessment

Scientific Name	Common Name	Occur	Installation	MACOM	Assess	No affect	May affect	Non-Jeop	Jeop
<i>Achatinella mustelina</i>	Pupu Kuahiwi	Both	Makua Military Reservation	USARPAC	1	0	1	0	1
<i>Acipenser brevirostrum</i>	Shortnose Sturgeon	Both	Ft. Stewart & Hunter Army Airfield	FORSCOM	1	1	0	0	0
<i>Anas wyvilliana</i>	Hawaiian Duck	Both	West Point	USMA	1	1	0	0	0
		Onsite	Aahoaka & Wailua River LTA	NGB	1	NR	NR	NR	NR
		Both Cont.	Anahola LTA Kekaha LTA	NGB NGB	1 1	NR NR	NR NR	NR NR	NR NR
<i>Arctomecon humilis</i>	Dwarf Bearclaw Poppy	Both	St. George Armory	NGB	2	2	0	0	0
<i>Branchinecta lynchi</i>	Vernal Pool Fairy Shrimp	Onsite	Ft. Hunter Liggett	USARC	2	0	2	2	0
<i>Bufo microscaphus californicus</i>	Arroyo Southwestern Toad	Onsite	Ft. Hunter Liggett	USARC	1	0	1	1	0
<i>Buteo solitarius</i>	Hawaiian Hawk	Onsite	Kekaha LTA	NGB	1	NR	NR	NR	NR
		Both	Pohakuloa TA	USARPAC	1	1	0	1	0
<i>Charadrius alexandrinus nivosus</i>	Western Snowy Plover	Both	Pom Annex	TRADOC	1	NR	NR	1	NR
<i>Chorizanthe pungens var. pungens</i>	Monterey Spineflower	Both	Pom Annex	TRADOC	1	NR	NR	1	NR
<i>Chorizanthe robusta</i>	Robust Spineflower	Both	Pom Annex	TRADOC	1	NR	NR	1	NR
<i>Corvus hawaiiensis</i>	Alala Hawaiian Crow	Cont.	Pohakuloa TA	USARPAC	2	2	0	2	0
<i>Cyprinella caerulea</i>	Blue Shiner	Both	Ft. McClellan	TRADOC	1	1	0	0	0
<i>Dendroica chrysoparia</i>	Golden-cheeked Warbler	Both	Ft. Hood	FORSCOM	1	0	1	1	0
		Both	Ft. Sam Houston	MEDCOM	1	NR	NR	1	NR
<i>Dendroica kirtlandii</i>	Kirtland's Warbler	Both	Camp Grayling	NGB	2	1	1	2	0
<i>Drymarchon corais couperi</i>	Eastern Indigo Snake	Both	Ft. Stewart & Hunter Army Airfield	FORSCOM	1	1	0	0	0
<i>Echinacea laevigata</i>	Smooth Coneflower	Onsite	Ft. Jackson	TRADOC	3	3	0	0	0
<i>Euphilotes enoptes smithi</i>	Smith's Blue Butterfly	Both	Pom Annex	TRADOC	1	NR	NR	1	NR
<i>Falco peregrinus</i>	Peregrine Falcon	Both	Camp Navajo Military Reservation	NGB	2	0	2	NR	NR
		Cont.	Camp Smith	NGB	1	NR	NR	NR	NR
		Both	Ft. Hood	FORSCOM	1	1	0	NR	0
		Both	Stead TS	NGB	1	NR	NR	NR	NR
		Cont.	Yakima TC	FORSCOM	1	0	1	0	0

Scientific Name	Common Name	Occur	Installation	MACOM	Assess	No affect	May affect	Non-Jeop	Jeop
<i>Falco peregrinus anatum</i>	American Peregrine Falcon	Both	Ft. Hunter Liggett	USARC	1	1	0	0	0
<i>Fulica americana alai</i>	Hawaiian Coot	Cont.	Kekaha LTA	NGB	1	NR	NR	NR	NR
<i>Gallinula chloropus sandvicensis</i>	Hawaiian Gallinule	Onsite	Aahoaka & Wailua River LTA	NGB	1	NR	NR	NR	NR
		Cont.	Kekaha LTA	NGB	1	NR	NR	NR	NR
<i>Gilia tenuiflora ssp. arenaria</i>	Monterey Sand Gilia	Both	Pom Annex	TRADOC	1	NR	NR	1	NR
<i>Gopherus agassizii</i>	Desert Tortoise	Both	Clark County TS	NGB	2	0	2	2	2
		Both	Ft. Irwin	FORSCOM	3	3	0	2	0
<i>Gopherus polyphemus</i>	Gopher Tortoise	Both	Camp Shelby	NGB	4	0	0	1	0
<i>Grus americana</i>	Whooping Crane	Both	Ft. Hood	FORSCOM	1	0	1	1	0
<i>Gymnogyps californianus</i>	California Condor	Cont.	Ft. Hunter Liggett	USARC	1	0	1	1	0
<i>Haliaeetus leucocephalus</i>	Bald Eagle	Both	Aberdeen Proving Ground	AMC	3	3	0	6	0
		Both	Camp Grayling	NGB	2	1	1	2	0
		Both	Camp Navajo Military Reservation	NGB	6	6	0	2	0
		Onsite	Camp Ripley	NGB	1	1	0	0	0
		Both	Camp Roberts	NGB	1	1	0	0	0
		Cont.	Camp Smith	NGB	1	NR	NR	NR	NR
		Both	Ft. Belvoir	MDW	1	1	0	0	0
		Both	Ft. Benning	TRADOC	1	1	0	0	0
		Both	Ft. Hood	FORSCOM	1	0	1	1	0
		Both	Ft. Hunter Liggett	USARC	2	0	2	2	0
		Both	Ft. Lewis	FORSCOM	2	2	0	0	0
		Both	Ft. Riley	FORSCOM	4	3	1	NR	NR
		Both	Ft. Stewart & Hunter Army Airfield	FORSCOM	1	1	0	0	0
		Both	Holston AAP	AMC	1	1	0	0	0
		Both	Newport Chemical Depot	AMC	2	1	1	2	0
		Both	Stead TS	NGB	1	NR	NR	NR	NR
		Both	Twin Cities AAP	AMC	1	NR	NR	NR	NR
		Cont.	Wappapello TS	NGB	1	1	0	0	0
		Both	West Point	USMA	1	1	0	0	0
		Both	Yakima TC	FORSCOM	2	1	1	2	0
<i>Haplostachys haplostachya</i>	No Common Name	Both	Pohakuloa TA	USARPAC	3	1	2	1	2
<i>Hemignathus munroi</i>	`Akiapola`Au	Both	Pohakuloa TA	USARPAC	1	1	0	1	0
<i>Himantopus mexicanus</i>	Hawaiian Stilt	Cont.	Kekaha LTA	NGB	1	NR	NR	NR	NR
<i>Howellia aquatilis</i>	Water Howellia	Both	Ft. Lewis	FORSCOM	1	1	0	0	0
<i>Isotria medeoloides</i>	Small Whorled Pogonia	Cont.	Regional Training Institute	NGB	1	1	0	0	0
<i>Lampsilis abrupta</i>	Pink Mucket Pearlymussel	Cont.	Wappapello TS	NGB	1	1	0	0	0

Scientific Name	Common Name	Occur	Installation	MACOM	Assess	No affect	May affect	Non-Jeop	Jeop
<i>Lasiurus cinereus semotus</i>	Hawaiian Hoary Bat	Both	Aahoaka & Wailua River LTA	NGB	1	NR	NR	NR	NR
		Onsite	Keaukaha Military Reservation	NGB	1	NR	NR	NR	NR
		Both	Kekaha LTA	NGB	1	NR	NR	NR	NR
		Both	Pohakuloa TA	USARPAC	1	1	0	1	0
<i>Leptonycteris curasoae yerbabuena</i>	Lesser Long-Nosed Bat	Both	Ft. Huachuca	TRADOC	1	1	0	0	0
<i>Lespedeza leptostachya</i>	Prairie Bush Clover	Cont.	Badger AAP	AMC	1	0	0	0	0
<i>Lindera melissifolia</i>	Pondberry	Cont.	Wappapello TS	NGB	1	1	0	0	0
<i>Loxioides bailleui</i>	Palila	Both	Pohakuloa TA	USARPAC	3	2	1	2	1
<i>Loxops coccineus coccineus</i>	Hawaii 'Akepa	Cont.	Pohakuloa TA	USARPAC	1	1	0	1	0
<i>Lycaeides melissa samuelis</i>	Karner Blue Butterfly	Both	Ft. McCoy	USARC	8	1	2	1	0
		Cont.	State Military Reservation	NGB	2	2	0	0	0
<i>Lysimachia asperulaefolia</i>	Rough-leaved Loosestrife	Both	Ft. Bragg	FORSCOM	34	33	1	0	1
		Onsite	Ft. Jackson	TRADOC	3	3	0	0	0
<i>Marshallia mohrii</i>	Mohr's Barbara Buttons	Onsite	Ft. McClellan	TRADOC	1	1	0	0	0
<i>Mycteria americana</i>	Wood Stork	Both	Ft. Benning	TRADOC	1	1	0	0	0
		Both	Ft. Stewart & Hunter Army Airfield	FORSCOM	1	1	0	0	0
<i>Myotis grisescens</i>	Gray Bat	Both	Ft. McClellan	TRADOC	1	1	0	0	0
<i>Neonympha mitchellii francisci</i>	Saint Francis' Satyr Butterfly	Onsite	Ft. Bragg	FORSCOM	11	11	0	0	0
<i>Nesochen sandvicensis</i>	Hawaiian Goose	Both	Kekaha LTA	NGB	1	NR	NR	NR	NR
		Both	Pohakuloa TA	USARPAC	1	0	1	0	1
<i>Nicrophorus americanus</i>	American Burying Beetle	Both	Camp Gruber	NGB	1	0	1	1	0
		Both	Ft. Chaffee	TRADOC	1	0	1	1	0
		Both	McAlester AAP	AMC	1	1	0	1	0
<i>Picoides borealis</i>	Red-cockaded Woodpecker	Cont.	Camp Beauregard	NGB	1	0	0	0	1
		Onsite	Ft. Benning	TRADOC	1	0	1	0	1
		Both	Ft. Bragg	FORSCOM	37	28	9	6	3
		Onsite	Ft. Jackson	TRADOC	2	2	0	0	0
		Cont.	Ft. McClellan	TRADOC	1	1	0	0	0
		Both	Ft. Polk	FORSCOM	5	5	0	3	0
		Onsite	Ft. Stewart & Hunter Army Airfield	FORSCOM	4	2	2	NR	2
<i>Pterodroma phaeopygia sandwichensis</i>	Hawaiian Dark-Rumped Petrel	Onsite	Kanaio LTA	NGB	1	NR	NR	NR	NR
		Cont.	Pohakuloa TA	USARPAC	1	1	0	1	0
<i>Puffinus auricularis newelli</i>	Newell's Townsend's Shearwater	Both	Aahoaka & Wailua River LTA	NGB	1	NR	NR	NR	NR
<i>Rhus michauxii</i>	Michaux's Sumac	Both	Ft. Bragg	FORSCOM	34	33	1	0	1

Scientific Name	Common Name	Occur	Installation	MACOM	Assess	No affect	May affect	Non- Jeop	Jeop
<i>Schwalbea americana</i>	American Chaffseed	Both	Ft. Bragg	FORSCOM	29	29	0	0	0
<i>Scutellaria montana</i>	Large-flowered Skullcap	Onsite	Volunteer AAP	AMC	1	1	0	0	0
<i>Sesbania tomentosa</i>	Ohai	Onsite	Kanaio LTA	NGB	2	1	0	1	0
<i>Solidago houghtonii</i>	Houghton's Goldenrod	Both	Camp Grayling	NGB	2	2	0	0	0
<i>Stenogyne angustifolia</i>	No Common Name	Onsite	Pohakuloa TA	USARPAC	3	1	2	1	2
<i>Strix occidentalis caurina</i>	Northern Spotted Owl	Onsite	Ft. Lewis	FORSCOM	3	2	1	1	0
<i>Strix occidentalis lucida</i>	Mexican Spotted Owl	Both	Camp Navajo Military Reservation	NGB	1	0	1	NR	NR
<i>Trifolium stoloniferum</i>	Running Buffalo Clover	Both	Bluegrass Army Depot	AMC	1	1	0	0	0
<i>Trillium reliquum</i>	Relict Trillium	Onsite	Ft. Benning	TRADOC	1	1	0	0	0
<i>Vireo atricapillus</i>	Black-capped Vireo	Both	Camp Barkeley	NGB	2	2	0	0	0
		Both	Ft. Hood	FORSCOM	1	0	1	1	0
		Both	Ft. Sill	TRADOC	1	0	1	0	0
<i>Vireo bellii pusillus</i>	Least Bell's Vireo	Both	Ft. Hunter Liggett	USARC	1	1	0	0	0
<i>Vulpes macrotis mutica</i>	San Joaquin Kit	Both	Camp Roberts	NGB	7	NR	2+	7	0
	Fox	Both	Ft. Hunter Liggett	USARC	5	0	5	4	1
<i>Xyris tennesseensis</i>	Tennessee	Both	Anniston Army Depot	AMC	1	1	0	0	0
	Yellow-eyed Grass	Both	Ft. McClellan	TRADOC	2	2	0	0	0

## Appendix C-2: Listing of Installations that have Species with Biological Assessments

Installation	MACOM	Scientific Name	Common Name	Occur	Assess	No affect	May affect	Non-Jeop	Jeop
Aahoaka & Wailua River LTA	NGB	<i>Anas wyvilliana</i>	Hawaiian Duck	Onsite	1	NR	NR	NR	NR
		<i>Gallinula chloropus sandvicensis</i>	Hawaiian Gallinule	Onsite	1	NR	NR	NR	NR
		<i>Lasiurus cinereus semotus</i>	Hawaiian Hoary Bat	Both	1	NR	NR	NR	NR
		<i>Puffinus auricularis newelli</i>	Newell's Townsend's Shearwater	Both	1	NR	NR	NR	NR
Aberdeen Proving Ground	AMC	<i>Haliaeetus leucocephalus</i>	Bald Eagle	Both	3	3	0	6	0
Anahola LTA	NGB	<i>Anas wyvilliana</i>	Hawaiian Duck	Both	1	NR	NR	NR	NR
Anniston Army Depot	AMC	<i>Xyris tennesseensis</i>	Tennessee Yellow-eyed Grass	Both	1	1	0	0	0
Badger AAP	AMC	<i>Lespedeza leptostachya</i>	Prairie Bush Clover	Cont.	1	0	0	0	0
Bluegrass Army Depot	AMC	<i>Trifolium stoloniferum</i>	Running Buffalo Clover	Both	1	1	0	0	0
Camp Barkeley	NGB	<i>Vireo atricapillus</i>	Black-capped Vireo	Both	2	2	0	0	0
Camp Beauregard	NGB	<i>Picoides borealis</i>	Red-cockaded Woodpecker	Cont.	1	0	0	0	1
Camp Grayling	NGB	<i>Dendroica kirtlandii</i>	Kirtland's Warbler	Both	2	1	1	2	0
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	Both	2	1	1	2	0
		<i>Solidago houghtonii</i>	Houghton's Goldenrod	Both	2	2	0	0	0
Camp Gruber	NGB	<i>Nicrophorus americanus</i>	American Burying Beetle	Both	1	0	1	1	0
Camp Navajo Military Reservation	NGB	<i>Falco peregrinus</i>	Peregrine Falcon	Both	2	0	2	NR	NR
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	Both	6	6	0	2	0
		<i>Strix occidentalis lucida</i>	Mexican Spotted Owl	Both	1	0	1	NR	NR
Camp Ripley	NGB	<i>Haliaeetus leucocephalus</i>	Bald Eagle	Onsite	1	1	0	0	0
Camp Roberts	NGB	<i>Haliaeetus leucocephalus</i>	Bald Eagle	Both	1	1	0	0	0
		<i>Vulpes macrotis mutica</i>	San Joaquin Kit Fox	Both	7	NR	2+	7	0
Camp Shelby	NGB	<i>Gopherus polyphemus</i>	Gopher Tortoise	Both	4	0	0	1	0
Camp Smith	NGB	<i>Falco peregrinus</i>	Peregrine Falcon	Cont.	1	NR	NR	NR	NR
			Bald Eagle	Cont.	1	NR	NR	NR	NR
Clark County TS	NGB	<i>Gopherus agassizii</i>	Desert Tortoise	Both	2	0	2	2	2
Ft. Belvoir	MDW	<i>Haliaeetus leucocephalus</i>	Bald Eagle	Both	1	1	0	0	0

Installation	MACOM	Scientific Name	Common Name	Occur	Assess	No affect	May affect	Non-Jeop	Jeop
Ft. Benning	TRADOC	<i>Haliaeetus leucocephalus</i>	Bald Eagle	Both	1	1	0	0	0
		<i>Mycteria americana</i>	Wood Stork	Both	1	1	0	0	0
		<i>Picoides borealis</i>	Red-cockaded Woodpecker	Onsite	1	0	1	0	1
		<i>Trillium reliquum</i>	Relict Trillium	Onsite	1	1	0	0	0
Ft. Bragg	FORSCOM	<i>Lysimachia</i>	Rough-leaved	Both	34	33	1	0	1
		<i>asperulaefolia</i>	Loosestrife						
		<i>Neonympha mitchellii</i>	Saint Francis' Satyr	Onsite	11	11	0	0	0
		<i>francisci</i>	Butterfly						
		<i>Picoides borealis</i>	Red-cockaded Woodpecker	Both	37	28	9	6	3
Ft. Chaffee	TRADOC	<i>Rhus michauxii</i>	Michaux's Sumac	Both	34	33	1	0	1
		<i>Schwalbea americana</i>	American Chaffseed	Both	29	29	0	0	0
Ft. Hood	TRADOC	<i>Nicrophorus americanus</i>	American Burying Beetle	Both	1	0	1	1	0
Ft. Hood	FORSCOM	<i>Dendroica chrysoparia</i>	Golden-cheeked Warbler	Both	1	0	1	1	0
		<i>Falco peregrinus</i>	Peregrine Falcon	Both	1	1	0	NR	0
		<i>Grus americana</i>	Whooping Crane	Both	1	0	1	1	0
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	Both	1	0	1	1	0
		<i>Vireo atricapillus</i>	Black-capped Vireo	Both	1	0	1	1	0
Ft. Huachuca	TRADOC	<i>Leptonycteris curasoae</i> <i>yerbabuena</i>	Lesser Long-nosed Bat	Both	1	1	0	0	0
Ft. Hunter Liggett	USARC	<i>Branchinecta lynchi</i>	Vernal Pool Fairy Shrimp	Onsite	2	0	2	2	0
		<i>Bufo microscaphus</i>	Arroyo Southwestern Toad	Onsite	1	0	1	1	0
		<i>Falco peregrinus anatum</i>	American Peregrine Falcon	Both	1	1	0	0	0
		<i>Gymnogyps californianus</i>	California Condor	Cont.	1	0	1	1	0
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	Both	2	0	2	2	0
		<i>Vireo bellii pusillus</i>	Least Bell's Vireo	Both	1	1	0	0	0
		<i>Vulpes macrotis mutica</i>	San Joaquin Kit Fox	Both	5	0	5	4	1
Ft. Irwin	FORSCOM	<i>Gopherus agassizii</i>	Desert Tortoise	Both	3	3	0	2	0
Ft. Jackson	TRADOC	<i>Echinacea laevigata</i>	Smooth Coneflower	Onsite	3	3	0	0	0
		<i>Lysimachia</i>	Rough-leaved	Onsite	3	3	0	0	0
		<i>asperulaefolia</i>	Loosestrife						
		<i>Picoides borealis</i>	Red-cockaded Woodpecker	Onsite	2	2	0	0	0
Ft. Lewis	FORSCOM	<i>Haliaeetus leucocephalus</i>	Bald Eagle	Both	2	2	0	0	0
		<i>Howellia aquatilis</i>	Water Howellia	Both	1	1	0	0	0
		<i>Strix occidentalis caurina</i>	Northern Spotted Owl	Onsite	3	2	1	1	0

Installation	MACOM	Scientific Name	Common Name	Occur	Assess	No affect	May affect	Non- Jeop	Jeop
Ft. McClellan	TRADOC	<i>Cyprinella caerulea</i>	Blue Shiner	Both	1	1	0	0	0
		<i>Marshallia mohrii</i>	Mohr's Barbara Buttons	Onsite	1	1	0	0	0
		<i>Myotis grisescens</i>	Gray Bat	Both	1	1	0	0	0
		<i>Picoides borealis</i>	Red-cockaded Woodpecker	Cont.	1	1	0	0	0
		<i>Xyris tennesseensis</i>	Tennessee Yellow-eyed Grass	Both	2	2	0	0	0
Ft. McCoy	USARC	<i>Lycaeides melissa samuelis</i>	Karner Blue Butterfly	Both	8	1	2	1	0
Ft. Polk	FORSCOM	<i>Picoides borealis</i>	Red-cockaded Woodpecker	Both	5	5	0	3	0
Ft. Riley	FORSCOM	<i>Haliaeetus leucocephalus</i>	Bald Eagle	Both	4	3	1	NR	NR
Ft. Sam Houston	MEDCOM	<i>Dendroica chrysoparia</i>	Golden-cheeked Warbler	Both	1	NR	NR	1	NR
Ft. Sill	TRADOC	<i>Vireo atricapillus</i>	Black-capped Vireo	Both	1	0	1	0	0
Ft. Stewart & Hunter Army Airfield	FORSCOM	<i>Acipenser brevirostrum</i>	Shortnose Sturgeon	Both	1	1	0	0	0
		<i>Drymarchon corais couperi</i>	Eastern Indigo Snake	Both	1	1	0	0	0
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	Both	1	1	0	0	0
		<i>Mycteria americana</i>	Wood Stork	Both	1	1	0	0	0
		<i>Picoides borealis</i>	Red-cockaded Woodpecker	Onsite	4	2	2	NR	2
Holston AAP	AMC	<i>Haliaeetus leucocephalus</i>	Bald Eagle	Both	1	1	0	0	0
Kanaio LTA	NGB	<i>Pterodroma phaeopygia sandwichensis</i>	Hawaiian Dark-Rumped Petrel	Onsite	1	NR	NR	NR	NR
		<i>Sesbania tomentosa</i>	Ohai	Onsite	2	1	0	1	0
Keaukaha Military Reservation	NGB	<i>Lasiurus cinereus semotus</i>	Hawaiian Hoary Bat	Onsite	1	NR	NR	NR	NR
Kekaha LTA	NGB	<i>Anas wyvilliana</i>	Hawaiian Duck	Cont.	1	NR	NR	NR	NR
		<i>Buteo solitarius</i>	Hawaiian Hawk	Onsite	1	NR	NR	NR	NR
		<i>Fulica americana alai</i>	Hawaiian Coot	Cont.	1	NR	NR	NR	NR
		<i>Gallinula chloropus sandvicensis</i>	Hawaiian Gallinule	Cont.	1	NR	NR	NR	NR
		<i>Himantopus mexicanus</i>	Hawaiian Stilt	Cont.	1	NR	NR	NR	NR
		<i>Lasiurus cinereus semotus</i>	Hawaiian Hoary Bat	Both	1	NR	NR	NR	NR
		<i>Nesochen sandvicensis</i>	Hawaiian Goose	Both	1	NR	NR	NR	NR
Makua Military Reservation	USARPAC	<i>Achatinella mustelina</i>	Pupu Kuahiwi	Both	1	0	1	0	1
McAlester AAP	AMC	<i>Nicrophorus americanus</i>	American Burying Beetle	Both	1	1	0	1	0
Newport Chemical Depot	AMC	<i>Haliaeetus leucocephalus</i>	Bald Eagle	Both	2	1	1	2	0



Installation	MACOM	Scientific Name	Common Name	Occur	Assess	No	May	Non-	Jeop
Pohakuloa TA	USARPAC	<i>Buteo solitarius</i>	Hawaiian Hawk	Both	1	1	0	1	0
		<i>Corvus hawaiiensis</i>	No Common Name	Cont.	2	2	0	2	0
		<i>Haplostachys haplostachya</i>	No Common Name	Both	3	1	2	1	2
		<i>Hemignathus munroi</i>	`Akiapola`Au	Both	1	1	0	1	0
		<i>Lasiurus cinereus semotus</i>	Hawaiian Hoary Bat	Both	1	1	0	1	0
		<i>Loxioides bailleui</i>	Palila	Both	3	2	1	2	1
		<i>Loxops coccineus coccineus</i>	Hawaii `Akepa	Cont.	1	1	0	1	0
		<i>Nesochen sanduicensis</i>	Hawaiian Goose	Both	1	0	1	0	1
		<i>Pterodroma phaeopygia sandwichensis</i>	Hawaiian Dark-rumped Petrel	Cont.	1	1	0	1	0
		<i>Stenogyne angustifolia</i>	No Common Name	Onsite	3	1	2	1	2
Pom Annex	TRADOC	<i>Charadrius alexandrinus nivosus</i>	Western Snowy Plover	Both	1	NR	NR	1	NR
		<i>Chorizantha pungens var. pungens</i>	Monterey Spineflower	Both	1	NR	NR	1	NR
		<i>Chorizantha robusta</i>	Robust Spineflower	Both	1	NR	NR	1	NR
		<i>Euphilotes enoptes smithi</i>	Smith's Blue Butterfly	Both	1	NR	NR	1	NR
		<i>Gilia tenuiflora ssp. arenaria</i>	Monterey Sand Gilia	Both	1	NR	NR	1	NR
		<i>Isotria medeoloides</i>	Small Whorled Pogonia	Cont.	1	1	0	0	0
Regional Training Institute	NGB	<i>Isotria medeoloides</i>	Small Whorled Pogonia	Cont.	1	1	0	0	0
St. George Armory	NGB	<i>Arctomecon humilis</i>	Dwarf Bearclaw Poppy	Both	2	2	0	0	0
State Military Reservation	NGB	<i>Lycaeides melissa samuelis</i>	Karner Blue Butterfly	Cont.	2	2	0	0	0
Stead TS	NGB	<i>Falco peregrinus</i>	Peregrine Falcon	Both	1	NR	NR	NR	NR
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	Both	1	NR	NR	NR	NR
Sunny Point	MTMC	<i>Picoides borealis</i>	Red-cockaded Woodpecker	Both	8	4	3	6	2
Twin Cities AAP	AMC	<i>Haliaeetus leucocephalus</i>	Bald Eagle	Both	1	NR	NR	NR	NR
Volunteer AAP	AMC	<i>Scutellaria montana</i>	Large-flowered Skullcap	Onsite	1	1	0	0	0
Wappapello TS	NGB	<i>Haliaeetus leucocephalus</i>	Bald Eagle	Cont.	1	1	0	0	0
		<i>Lampsilis abrupta</i>	Pink Mucket Pearlymussel	Cont.	1	1	0	0	0
		<i>Lindera melissifolia</i>	Pondberry	Cont.	1	1	0	0	0
West Point	USMA	<i>Acipenser brevirostrum</i>	Shortnose Sturgeon	Both	1	1	0	0	0
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	Both	1	1	0	0	0
Yakima TC	FORSCOM	<i>Falco peregrinus</i>	Peregrine Falcon	Cont.	1	0	1	0	0
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	Both	2	1	1	2	0

## Appendix D-1: Listing of Species with a Completed ESMP or an ESMP in Preparation

Scientific Name	Common Name	Fed stat	Cat	Occur	MACOM	Installation	ESMP
<i>Abutilon sandwicense</i>	No Common Name	E	Plant	Cont.	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Achatinella rosea</i>	Pupu Kuahiwi	E	Snail	Onsite	USARPAC	Kawailoa TA	In Preparation
<i>Achatinella apexfulva</i>	Pupu Kuahiwi	E	Snail	Onsite	USARPAC	Kawailoa TA	In Preparation
				Onsite	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Achatinella bulimoides</i>	Pupu Kuahiwi	E	Snail	Onsite	USARPAC	Kawailoa TA	In Preparation
<i>Achatinella byronii</i>	Pupu Kuahiwi	E	Snail	Both	USARPAC	Kawailoa TA	In Preparation
				Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Achatinella curta</i>	Pupu Kuahiwi	E	Snail	Cont.	USARPAC	Kahuku TA	In Preparation
<i>Achatinella decipiens</i>	Pupu Kuahiwi	E	Snail	Both	USARPAC	Kawailoa TA	In Preparation
				Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Achatinella dimorpha</i>	Pupu Kuahiwi	E	Snail	Cont.	USARPAC	Kahuku TA	In Preparation
<i>Achatinella leucorraphe</i>	Pupu Kuahiwi	E	Snail	Onsite	USARPAC	Kawailoa TA	In Preparation
				Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Achatinella lila</i>	Pupu Kuahiwi	E	Snail	Both	USARPAC	Kawailoa TA	In Preparation
<i>Achatinella livida</i>	Pupu Kuahiwi	E	Snail	Both	USARPAC	Kawailoa TA	In Preparation
<i>Achatinella mustelina</i>	Pupu Kuahiwi	E	Snail	Both	USARPAC	Makua Military Reservation	In Preparation
				Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Achatinella pulcherrima</i>	Pupu Kuahiwi	E	Snail	Onsite	USARPAC	Kawailoa TA	In Preparation
<i>Achatinella sowerbyana</i>	Pupu Kuahiwi	E	Snail	Cont.	USARPAC	Kahuku TA	In Preparation
				Both	USARPAC	Kawailoa TA	In Preparation
				Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Achatinella swiftii</i>	Pupu Kuahiwi	E	Snail	Onsite	USARPAC	Kawailoa TA	In Preparation
				Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Achatinella valida</i>	Pupu Kuahiwi	E	Snail	Cont.	USARPAC	Kahuku TA	In Preparation
<i>Acipenser brevirostrum</i>	Shortnose Sturgeon	E	Fish	Both	FORSCOM	Ft. Stewart & Hunter Army Airfield	In Preparation
				Both	USMA	West Point	In Preparation
<i>Adenophorus periens</i>	No Common Name	E	Plant	Onsite	USARPAC	Kahuku TA	In Preparation
					USARPAC	Kawailoa TA	In Preparation

Scientific Name	Common Name	Fed stat	Cat	Occur	MACOM	Installation	ESMP
<i>Alectryon macrococcus</i> <i>var. macrococcus</i>	Mahoe Ala'alahua	E	Plant	Both	USARPAC	Makua Military Reservation	In Preparation
				Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Alligator</i> <i>mississippiensis</i>	American Alligator	T(S/A)	Reptile	Both	NGB	Camp Blanding TS	Completed
				Both	TRADOC	Ft. Benning	In Preparation
				Both	MTMC	Sunny Point	In Preparation
<i>Alsiniidendron obovatum</i>	No Common Name	E	Plant	Both	USARPAC	Makua Military Reservation	In Preparation
<i>Alsiniidendron trinerve</i>	No Common Name	E	Plant	Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Amblyopsis rosae</i>	Ozark Cavefish	T	Fish	Cont.	NGB	Camp Crowder	In Preparation
<i>Anas wyvilliana</i>	Hawaiian Duck	E	Bird	Both	USARPAC	Dillingham TA	In Preparation
<i>Anniella pulchra nigra</i>	California Black Legless Lizard	PE	Reptile	Both	TRADOC	Pom Annex	Completed
<i>Aphelocoma coerulescens</i>	Florida Scrub Jay	T	Bird	Both	NGB	Camp Blanding TS	Completed
<i>Apios priceana</i>	Price's Potato Bean	T	Plant	Onsite	AMC	Redstone Arsenal	In Preparation
<i>Arctomecon humilis</i>	Dwarf Bearclaw Poppy	E	Plant	Both	NGB	St. George Armory	Completed
<i>Asplenium fragile</i> var. <i>insulare</i>	Fragile Fern	E	Plant	Onsite	USARPAC	Pohakuloa TA	In Preparation
<i>Bonamia menziesii</i>	No Common Name	E	Plant	Onsite	USARPAC	Makua Military Reservation	In Preparation
<i>Branchinecta lynchi</i>	Vernal Pool Fairy Shrimp	T	Crustacean	Onsite	USARC	Ft. Hunter Liggett	In Preparation
<i>Bufo microscaphus</i> <i>californicus</i>	Arroyo Southwestern Toad	E	Amphibian	Onsite	USARC	Ft. Hunter Liggett	In Preparation
<i>Buteo solitarius</i>	Hawaiian (=Io) Hawk	E	Bird	Both	USARPAC	Pohakuloa TA	In Preparation
<i>Caesalpinia kavaiense</i>	Uhiuhi	E	Plant	Onsite	USARPAC	Makua Military Reservation	In Preparation
<i>Canis lupus</i>	Gray Wolf	T	Mammal	Both	NGB	Camp Ripley	In Preparation
<i>Cenchrus agrimonioides</i>	Kamanomano	PE	Plant	Onsite	USARPAC	Makua Military Reservation	In Preparation
				Onsite	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Chamaesyce deltoidea</i> <i>ssp. deltoidea</i>	Deltoid Spurge	E	Plant	Both	USARC	Martinez Reserve Center	Completed
<i>Chamaesyce rockii</i>	Akoko	PE	Plant	Cont.	USARPAC	Kahuku TA	In Preparation
				Both	USARPAC	Kawailoa TA	In Preparation
				Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Charadrius</i> <i>alexandrinus nivosus</i>	Western Snowy Plover	T	Bird	Both	TRADOC	Pom Annex	Completed
<i>Charadrius melodus</i>	Piping Plover	T	Bird	Both	FORSCOM	Ft. Riley	In Preparation
<i>Chorizanthe pungens</i> <i>var. pungens</i>	Monterey Spineflower	T	Plant	Both	TRADOC	Pom Annex	Completed
<i>Chorizanthe robusta</i>	Robust Spineflower	E	Plant	Both	TRADOC	Pom Annex	Completed

Scientific Name	Common Name	Fed stat	Cat	Occur	MACOM	Installation	ESMP
<i>Cirsium fontinale</i> var. <i>obispoense</i>	Chorro Creek Bog Thistle	E	Plant	Both	NGB	Camp San Luis Obispo	In Preparation
<i>Corvus hawaiiensis</i>	Alala Hawaiian Crow	E	Bird	Cont.	USARPAC	Pohakuloa TA	In Preparation
<i>Coryphantha sneedii</i> var. <i>sneedii</i>	Sneed Pincushion Cactus	E	Plant	Both	TRADOC	Ft. Bliss	In Preparation
<i>Ctenitis squamigera</i>	Pauoa	E	Plant	Cont.	USARPAC	Makua Military Reservation	In Preparation
				Cont.	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Cyanea acuminata</i>	Haha Oha	PE	Plant	Both	USARPAC	Kawailoa TA	In Preparation
				Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Cyanea grimesiana</i> ssp. <i>grimesiana</i>	Haha Oha	E	Plant	Cont.	USARPAC	Kahuku TA	In Preparation
				Both	USARPAC	Kawailoa TA	In Preparation
				Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Cyanea grimesiana</i> ssp. <i>obatae</i>	Haha Oha	E	Plant	Cont.	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Cyanea koolauensis</i>	Haha Oha	PE	Plant	Both	USARPAC	Kahuku TA	In Preparation
				Both	USARPAC	Kawailoa TA	In Preparation
				Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Cyanea longiflora</i>	Haha Oha	PE	Plant	Both	USARPAC	Kahuku TA	In Preparation
				Both	USARPAC	Kawailoa TA	In Preparation
				Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Cyanea superba</i> ssp. <i>superba</i>	Oha	E	Plant	Onsite	USARPAC	Makua Military Reservation	In Preparation
				Onsite	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Cyperus trachysanthos</i>	Pu'uka'a	PE	Plant	Onsite	USARPAC	Dillingham TA	In Preparation
<i>Cyprinella caerulea</i>	Blue Shiner	T	Fish	Both	TRADOC	Ft. McClellan	Completed
<i>Cyrtandra dentata</i>	Ha'iwale	PE	Plant	Onsite	USARPAC	Kawailoa TA	In Preparation
<i>Cyrtandra subumbellata</i>	Ha'iwale	PE	Plant	Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Cyrtandra viridiflora</i>	Ha'iwale	PE	Plant	Both	USARPAC	Kawailoa TA	In Preparation
<i>Delissea subcordata</i>	'Oha	PE	Plant	Cont.	USARPAC	Kawailoa TA	In Preparation
				Cont.	USARPAC	Makua Military Reservation	In Preparation
				Cont.	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Dendroica chrysoparia</i>	Golden-cheeked Warbler	E	Bird	Both	FORSCOM	Ft. Hood	In Preparation
				Both	MEDCOM	Ft. Sam Houston	In Preparation
<i>Dendroica kirtlandii</i>	Kirtland's Warbler	E	Bird	Both	NGB	Camp Grayling	Completed
<i>Diellia falcata</i>	No Common Name	E	Plant	Both	USARPAC	Makua Military Reservation	In Preparation
				Both	USARPAC	Schofield Barracks Military Reservation	In Preparation

Scientific Name	Common Name	Fed stat	Cat	Occur	MACOM	Installation	ESMP
<i>Diplazium molokaiense</i>	No Common Name	E	Plant	Cont.	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Drymarchon corais couperi</i>	Eastern Indigo Snake	T	Reptile	Both Both	NGB FORSCOM	Camp Blanding TS Ft. Stewart & Hunter Army Airfield	Completed In Preparation
<i>Dubautia herbstobatae</i>	Na'ena'e	E	Plant	Both	USARPAC	Makua Military Reservation	In Preparation
<i>Echinacea laevigata</i>	Smooth Coneflower	E	Plant	Onsite Onsite	TRADOC NGB	Ft. Jackson Leesburg TS	In Preparation In Preparation
<i>Empidonax traillii extimus</i>	Southwestern Willow Flycatcher	E	Bird	Both	TRADOC	Ft. Bliss	In Preparation
<i>Eragrostis fosbergii</i>	Fosberg's Love Grass	PE	Plant	Cont.	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Eugenia koolauensis</i>	Nioi	E	Plant	Onsite Cont.	USARPAC USARPAC	Kahuku TA Kawailoa TA	In Preparation In Preparation
<i>Euphilotes enoptes smithi</i>	Smith's Blue Butterfly	E	Insect	Both	TRADOC	Pom Annex	Completed
<i>Euphorbia haeleeleana</i>	Akoko	PE	Plant	Onsite	USARPAC	Makua Military Reservation	In Preparation
<i>Falco femoralis septentrionalis</i>	Northern Aplomado Falcon	E	Bird	Cont. Both	TRADOC AMC	Ft. Bliss White Sands Missile Range	In Preparation In Preparation
<i>Falco peregrinus</i>	Peregrine Falcon	E(S/A)	Bird	Cont. Both Both Both	TRADOC FORSCOM FORSCOM NGB	Ft. Eustis Ft. Hood Ft. Riley Stead TS	In Preparation In Preparation In Preparation Completed
<i>Falco peregrinus anatum</i>	American Peregrine Falcon	E	Bird	Both Both	TRADOC AMC	Ft. Bliss White Sands Missile Range	In Preparation In Preparation
<i>Flueggea neowawraea</i>	Mehamehame	E	Plant	Onsite Cont.	USARPAC USARPAC	Makua Military Reservation Schofield Barracks Military Reservation	In Preparation In Preparation
<i>Fulica americana alai</i>	Hawaiian Coot	E	Bird	Both	USARPAC	Dillingham TA	In Preparation
<i>Gallinula chloropus sandvicensis</i>	Hawaiian Gallinule	E	Bird	Both	USARPAC	Dillingham TA	In Preparation
<i>Gardenia mannii</i>	Nanu	PE	Plant	Both Both Both	USARPAC USARPAC USARPAC	Kahuku TA Kawailoa TA Schofield Barracks Military Reservation	In Preparation In Preparation In Preparation
<i>Gilia tenuiflora ssp. arenaria</i>	Monterey Sand Gilia	E	Plant	Both	TRADOC	Pom Annex	Completed
<i>Gopherus agassizii</i>	Desert Tortoise	T	Reptile	Both	FORSCOM	Ft. Irwin	In Preparation
<i>Gopherus polyphemus</i>	Gopher Tortoise	T	Reptile	Both	NGB	Camp Shelby	In Preparation
<i>Grus americana</i>	Whooping Crane	E	Bird	Both	FORSCOM	Ft. Hood	In Preparation

Scientific Name	Common Name	Fed stat	Cat	Occur	MACOM	Installation	ESMP
<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	AMC	Aberdeen Proving Ground	Completed
				Onsite	AMC	Adelphi Army Research Labs	Completed
				Both	NGB	Camp Blanding TS	Completed
				Both	NGB	Camp Crowder	In Preparation
				Both	NGB	Camp Grayling	Completed
				Both	NGB	Camp Murray	Completed
				Both	NGB	Camp Navajo Military Reservation	In Preparation
				Onsite	NGB	Camp Ripley	Completed
				Both	MDW	Ft. A.P. Hill	Completed
				Both	MDW	Ft. Belvoir	In Preparation
				Both	TRADOC	Ft. Benning	In Preparation
				Both	TRADOC	Ft. Bliss	In Preparation
				Both	TRADOC	Ft. Eustis	In Preparation
				Onsite	TRADOC	Ft. Gordon	In Preparation
				Both	FORSCOM	Ft. Hood	In Preparation
				Both	USARC	Ft. Hunter Liggett	In Preparation
				Both	TRADOC	Ft. Knox	In Preparation
				Both	TRADOC	Ft. Lee	In Preparation
				Both	FORSCOM	Ft. Lewis	Completed
				Both	FORSCOM	Ft. Riley	In Preparation
				Both	FORSCOM	Ft. Stewart & Hunter Army Airfield	In Preparation
				Both	AMC	Holston AAP	In Preparation
				Both	NGB	Macon TS	In Preparation
				Both	AMC	Savanna Army Depot Activity	Completed
				Both	NGB	Skelton TS	In Preparation
				Both	NGB	Stead TS	Completed
				Both	NGB	Truman TS	In Preparation
Both	USMA	West Point	In Preparation				
<i>Haplostachys haplostachya</i>	No Common Name	E	Plant	Both	USARPAC	Pohakuloa TA	In Preparation
<i>Hedyotis coriacea</i>	Kio'ele	E	Plant	Onsite	USARPAC	Pohakuloa TA	In Preparation
<i>Hedyotis parvula</i>	No Common Name	E	Plant	Both	USARPAC	Makua Military Reservation	In Preparation
<i>Helianthus eggertii</i>	Eggert's Sunflower	PT	Plant	Both	NGB	Tulahoma TS	In Preparation
<i>Hemignathus munroi</i>	`Akiapola`au	E	Bird	Both	USARPAC	Pohakuloa TA	In Preparation
<i>Hesperomannia arborescens</i>	No Common Name	E	Plant	Both	USARPAC	Kahuku TA	In Preparation
				Both	USARPAC	Kawailoa TA	In Preparation
				Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Hibiscus brackenridgei ssp. mokuleianus</i>	Ma'o Hau Hele	E	Plant	Cont.	USARPAC	Dillingham TA	In Preparation
<i>Himantopus mexicanus knudseni</i>	Hawaiian Stilt	E	Bird	Both	USARPAC	Dillingham TA	In Preparation
<i>Howellia aquatilis</i>	Water Howellia	T	Plant	Both	FORSCOM	Ft. Lewis	In Preparation

Scientific Name	Common Name	Fed stat	Cat	Occur	MACOM	Installation	ESMP
<i>Isodendron laurifolium</i>	Aupaka	PE	Plant	Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Labordia cyrtandrae</i>	Kamakahala	PE	Plant	Both Onsite	USARPAC USARPAC	Kawailoa TA Schofield Barracks Military Reservation	In Preparation In Preparation
<i>Lampsilis abrupta</i>	Pink Mucket Pearlymussel	E	Clam	Cont.	NGB	Skelton TS	In Preparation
<i>Lasiurus cinereus semotus</i>	Hawaiian Hoary Bat	E	Mammal	Both Both Both	USARPAC USARPAC USARPAC	Kawailoa TA Pohakuloa TA Schofield Barracks Military Reservation	In Preparation In Preparation In Preparation
<i>Lepidium arbuscula</i>	Anaunau	PE	Plant	Both Both	USARPAC USARPAC	Makua Military Reservation Schofield Barracks Military Reservation	In Preparation In Preparation
<i>Lipochaeta lobata</i> var. <i>leptophylla</i>	Nehe	E	Plant	Cont.	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Lipochaeta tenuifolia</i>	Nehe	E	Plant	Onsite	USARPAC	Makua Military Reservation	In Preparation
<i>Lobelia gaudichaudii ssp. koolauensis</i>	Haha Oha	PE	Plant	Both	USARPAC	Kawailoa TA	In Preparation
<i>Lobelia niihauensis</i>	Haha Oha	E	Plant	Cont. Both	USARPAC USARPAC	Makua Military Reservation Schofield Barracks Military Reservation	In Preparation In Preparation
<i>Lobelia oahuensis</i>	Haha Oha	E	Plant	Both Both	USARPAC USARPAC	Kawailoa TA Schofield Barracks Military Reservation	In Preparation In Preparation
<i>Loxioides bailleui</i>	Palila	E	Bird	Both	USARPAC	Pohakuloa TA	In Preparation
<i>Loxops coccineus coccineus</i>	Hawaii 'Akepa	E	Bird	Cont.	USARPAC	Pohakuloa TA	Completed
<i>Lycæides melissa samuelis</i>	Karner Blue Butterfly	E	Insect	Both	USARC	Ft. McCoy	In Preparation
<i>Lycopodium nutans</i>	Wawae Iole	E	Plant	Onsite Cont.	USARPAC USARPAC	Kawailoa TA Schofield Barracks Military Reservation	In Preparation In Preparation
<i>Lysimachia asperulaefolia</i>	Rough-leaved Loosestrife	E	Plant	Both Onsite Onsite Both	FORSCOM TRADOC NGB MTMC	Ft. Bragg Ft. Jackson Leesburg TS Sunny Point	In Preparation In Preparation In Preparation In Preparation
<i>Marshallia mohrii</i>	Mohr's Barbara Buttons	T	Plant	Onsite	TRADOC	Ft. McClellan	Completed
<i>Melicope lydgatei</i>	Alani	E	Plant	Onsite	USARPAC	Kawailoa TA	In Preparation
<i>Monachus schauslandi</i>	Hawaiian Monk Seal	E	Mammal	Both	USARPAC	Dillingham TA	In Preparation
<i>Mycteria americana</i>	Wood Stork	E	Bird	Both Both Onsite Both	NGB TRADOC TRADOC FORSCOM	Camp Blanding TS Ft. Benning Ft. Gordon Ft. Stewart & Hunter Army Airfield	Completed In Preparation In Preparation In Preparation

Scientific Name	Common Name	Fed stat	Cat	Occur	MACOM	Installation	ESMP
<i>Myotis grisescens</i>	Gray Bat	E	Mammal	Both	NGB	Camp Crowder	In Preparation
				Onsite	TRADOC	Ft. Knox	In Preparation
				Both	TRADOC	Ft. McClellan	Completed
<i>Myotis sodalis</i>	Indiana Bat	E	Mammal	Both	TRADOC	Ft. Knox	In Preparation
				Both	AMC	Picatinny Arsenal	In Preparation
						Tacom-ARDEC	
<i>Myrsine juddii</i>	Kolea	PE	Plant	Both	USARPAC	Kawailoa TA	In Preparation
<i>Neonympha mitchellii francisci</i>	Saint Francis' Satyr Butterfly	E	Insect	Onsite	FORSCOM	Ft. Bragg	In Preparation
<i>Neraudia angulata var. angulata</i>	Ma'aloa	E	Plant	Onsite	USARPAC	Makua Military Reservation	In Preparation
				Onsite	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Neraudia angulata var. dentata</i>	Ma'aloa	E	Plant	Onsite	USARPAC	Makua Military Reservation	In Preparation
				Onsite	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Neraudia ovata</i>	Ma'aloa	PE	Plant	Onsite	USARPAC	Pohakuloa TA	In Preparation
<i>Nesochen sandvicensis</i>	Hawaiian Goose	E	Bird	Both	USARPAC	Pohakuloa TA	In Preparation
<i>Nicrophorus americanus</i>	American Burying Beetle	E	Insect	Both	NGB	Camp Gruber	Completed
				Both	TRADOC	Ft. Chaffee	In Preparation
				Both	AMC	McAlester AAP	In Preparation
<i>Nototrichium humile</i>	Kulu'i	E	Plant	Onsite	USARPAC	Dillingham TA	In Preparation
				Both	USARPAC	Makua Military Reservation	In Preparation
				Cont.	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Oreomystis mana</i>	Hawaii Creeper	E	Bird	Cont.	USARPAC	Pohakuloa TA	Completed
<i>Palaemonias alabamae</i>	Alabama Cave Shrimp	E	Crustacean	Both	AMC	Redstone Arsenal	In Preparation
<i>Paroreomyza flammea</i>	Molokai Creeper	E	Bird	Both	USARPAC	Kawailoa TA	In Preparation
				Both	USARPAC	Makua Military Reservation	In Preparation
				Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Phyllostegia hirsuta</i>	No Common Name	PE	Plant	Cont.	USARPAC	Kahuku TA	In Preparation
				Onsite	USARPAC	Kawailoa TA	In Preparation
				Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Phyllostegia mollis</i>	No Common Name	E	Plant	Cont.	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Phyllostegia parviflora var. parviflora</i>	No Common Name	E	Plant	Onsite	USARPAC	Kawailoa TA	In Preparation



Scientific Name	Common Name	Fed stat	Cat	Occur	MACOM	Installation	ESMP
<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Cont.	NGB	Camp Beaugard	Completed
				Onsite	NGB	Camp Blanding TS	Completed
				Cont.	NGB	Camp Shelby	In Preparation
				Onsite	TRADOC	Ft. Benning	In Preparation
				Both	FORSCOM	Ft. Bragg	In Preparation
				Onsite	TRADOC	Ft. Gordon	In Preparation
				Onsite	TRADOC	Ft. Jackson	In Preparation
				Cont.	TRADOC	Ft. McClellan	Completed
				Both	FORSCOM	Ft. Polk	In Preparation
				Onsite	FORSCOM	Ft. Stewart & Hunter Army Airfield	In Preparation
Onsite	NGB	Leesburg TS	In Preparation				
Both	MTMC	Sunny Point	In Preparation				
<i>Piperia yadonii</i>	Yadon's Piperia	PE	Plant	Both	TRADOC	Pom Annex	Completed
				Both	TRADOC	Presidio of Monterey (POM)	In Preparation
<i>Plantago princeps var. longibracteata</i>	Laukahi Kuahiwi	E	Plant	Both	USARPAC	Kawailoa TA	In Preparation
<i>Plantago princeps var. princeps</i>	Laukahi Kuahiwi	E	Plant	Both	USARPAC	Makua Military Reservation	In Preparation
<i>Platanthera holochila</i>	No Common Name	PE	Plant	Cont.	USARPAC	Kawailoa TA	In Preparation
<i>Portulaca sclerocarpa</i>	Po'e	E	Plant	Both	USARPAC	Pohakuloa TA	In Preparation
<i>Pritchardia kaalae</i>	Loulu	PE	Plant	Onsite	USARPAC	Makua Military Reservation	In Preparation
				Cont.	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Psittirostra psittacea</i>	O'u	E	Bird	Cont.	USARPAC	Pohakuloa TA	Completed
<i>Pteris lidgatei</i>	No Common Name	E	Plant	Onsite	USARPAC	Kawailoa TA	In Preparation
				Onsite	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Pterodroma phaeopygia sandwichensis</i>	Hawaiian Dark-rumped Petrel	E	Bird	Cont.	USARPAC	Pohakuloa TA	In Preparation
<i>Ptilimnium nodosum</i>	Harperella	E	Plant	Both	NGB	Lil Aaron Straus Wilderness Area	In Preparation
<i>Rana aurora draytoni</i>	California Red-legged Frog	PE	Amphibian	Both	NGB	Camp San Luis Obispo	In Preparation
				Cont.	TRADOC	Pom Annex	Completed
<i>Rhododendron chapmanii</i>	Chapman's Rhododendron	E	Plant	Onsite	NGB	Camp Blanding TS	Completed
<i>Rhus michauxii</i>	Michaux's Sumac	E	Plant	Both	FORSCOM	Ft. Bragg	In Preparation
<i>Rollandia crispa</i>	Haha Oha	E	Plant	Both	USARPAC	Kawailoa TA	In Preparation
<i>Sanicula marivera</i>	No Common Name	E	Plant	Both	USARPAC	Makua Military Reservation	In Preparation
<i>Sanicula purpurea</i>	No Common Name	PE	Plant	Both	USARPAC	Kawailoa TA	In Preparation
				Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	E	Fish	Cont.	NGB	Skelton TS	In Preparation
<i>Schiedea hookeri</i>	No Common Name	PE	Plant	Both	USARPAC	Makua Military Reservation	In Preparation
				Both	USARPAC	Schofield Barracks	In Preparation

Scientific Name	Common Name	Fed stat	Cat	Occur	MACOM	Installation	ESMP
<i>Schiedea kealiae</i>	Ma`oli`oli	PE	Plant	Onsite	USARPAC	Dillingham TA	In Preparation
<i>Schiedea nuttallii</i>	No Common Name	PE	Plant	Onsite	USARPAC	Makua Military Reservation	In Preparation
				Cont.	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Schwalbea americana</i>	American Chaffseed	E	Plant	Both	FORSCOM	Ft. Bragg	In Preparation
<i>Scutellaria montana</i>	Large-flowered Skullcap	E	Plant	Onsite	AMC	Volunteer AAP	Completed
<i>Silene hawaiiensis</i>	Hawaiian Catchfly	T	Plant	Onsite	USARPAC	Pohakuloa TA	In Preparation
<i>Silene lanceolata</i>	Lanceleaf Catchfly	E	Plant	Onsite	USARPAC	Makua Military Reservation	In Preparation
				Onsite	USARPAC	Pohakuloa TA	In Preparation
<i>Solanum incompletum</i>	Spiny Popolo	E	Plant	Onsite	USARPAC	Pohakuloa TA	In Preparation
<i>Solanum sandwicense</i>	Popolo `Aiakeakua	E	Plant	Cont.	USARPAC	Kahuku TA	In Preparation
				Cont.	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Solidago houghtonii</i>	Houghton's Goldenrod	T	Plant	Both	NGB	Camp Grayling	In Preparation
<i>Spermolepis hawaiiensis</i>	Hawaiian Parsley	E	Plant	Both	USARPAC	Makua Military Reservation	In Preparation
				Onsite	USARPAC	Pohakuloa TA	In Preparation
<i>Speyeria zerene hippolyta</i>	Oregon Silverspot Butterfly	T	Insect	Onsite	NGB	Camp Rilea	In Preparation
<i>Stenogyne angustifolia</i>	No Common Name	E	Plant	Onsite	USARPAC	Pohakuloa TA	In Preparation
<i>Stenogyne kanehoana</i>	No Common Name	E	Plant	Cont.	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Sterna antillarum</i>	Least Tern	E	Bird	Both	FORSCOM	Ft. Riley	In Preparation
				Both	NGB	Skelton TS	In Preparation
<i>Strix occidentalis caurina</i>	Northern Spotted Owl	T	Bird	H	FORSCOM	Ft. Lewis	Completed
<i>Strix occidentalis lucida</i>	Mexican Spotted Owl	T	Bird	Both	NGB	Camp Navajo Military Reservation	In Preparation
				Both	TRADOC	Ft. Bliss	In Preparation
<i>Tetramolopium arenarium</i>	Mauna Kea Pamakani	E	Plant	Onsite	USARPAC	Pohakuloa TA	In Preparation
<i>Tetramolopium filiforme var. polyphyllum</i>	No Common Name	E	Plant	Both	USARPAC	Makua Military Reservation	In Preparation
<i>Tetramolopium lepidotum ssp. lepidotum</i>	No Common Name	E	Plant	Cont.	USARPAC	Makua Military Reservation	In Preparation
				Cont.	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Tetraplasandra gymnocarpa</i>	`Ohe`ohe	E	Plant	Both	USARPAC	Kahuku TA	In Preparation
				Both	USARPAC	Kawailoa TA	In Preparation
				Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Trillium reliquum</i>	Relict Trillium	E	Plant	Onsite	TRADOC	Ft. Benning	In Preparation
<i>Urera kaalae</i>	Opuhe	E	Plant	Both	USARPAC	Schofield Barracks Military Reservation	In Preparation

Scientific Name	Common Name	Fed stat	Cat	Occur	MACOM	Installation	ESMP
<i>Viola chamissoniana</i> <i>ssp. chamissoniana</i>	Pamakani	E	Plant	Onsite	USARPAC	Makua Military Reservation	In Preparation
				Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Viola oahuensis</i>	No Common Name	PE	Plant	Both	USARPAC	Kawailoa TA	In Preparation
				Both	USARPAC	Schofield Barracks Military Reservation	In Preparation
<i>Vireo atricapillus</i>	Black-capped Vireo	E	Bird	Both	NGB	Camp Barkeley	Completed
				Both	FORSCOM	Ft. Hood	In Preparation
				Both	MEDCOM	Ft. Sam Houston	In Preparation
				Both	TRADOC	Ft. Sill	In Preparation
<i>Vireo bellii pusillus</i>	Least Bell's Vireo	E	Bird	Onsite	NGB	Camp San Luis Obispo	In Preparation
<i>Vulpes macrotis mutica</i>	San Joaquin Kit Fox	E	Mammal	Both	USARC	Ft. Hunter Liggett	In Preparation
<i>Xyris tennesseensis</i>	Tennessee	E	Plant	Both	AMC	Anniston Army Depot	Completed
	Yellow-eyed Grass			Both	TRADOC	Ft. McClellan	Completed
<i>Zanthoxylum hawaiiense</i>	A'e	E	Plant	Both	USARPAC	Pohakuloa TA	In Preparation

## Appendix D-2: Listing of Installations that have Species with ESMPs

Installation	MACOM	Scientific Name	Common Name	Fed stat	Cat	Occur	ESMP
Aberdeen Proving Ground	AMC	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	Completed
Adelphi Army Research Labs	AMC	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Onsite	Completed
Anniston Army Depot	AMC	<i>Xyris tennesseensis</i>	Tennessee Yellow-eyed Grass	E	Plant	Both	Completed
Camp Barkeley	NGB	<i>Vireo atricapillus</i>	Black-capped Vireo	E	Bird	Both	Completed
Camp Beauregard	NGB	<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Cont.	Completed
Camp Blanding TS	NGB	<i>Alligator mississippiensis</i>	American Alligator	T(S/A)	Reptile	Both	Completed
		<i>Aphelocoma coerulescens</i>	Florida Scrub Jay	T	Bird	Both	Completed
		<i>Drymarchon corais couperi</i>	Eastern Indigo Snake	T	Reptile	Both	Completed
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	Completed
		<i>Mycteria americana</i>	Wood Stork	E	Bird	Both	Completed
		<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Onsite	Completed
		<i>Rhododendron chapmanii</i>	Chapman's Rhododendron	E	Plant	Onsite	Completed
Camp Crowder	NGB	<i>Amblyopsis rosae</i>	Ozark Cavefish	T	Fish	Cont.	In Preparation
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	In Preparation
		<i>Myotis grisescens</i>	Gray Bat	E	Mammal	Both	In Preparation
Camp Grayling	NGB	<i>Dendroica kirtlandii</i>	Kirtland's Warbler	E	Bird	Both	Completed
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	Completed
		<i>Solidago houghtonii</i>	Houghton's Goldenrod	T	Plant	Both	In Preparation
Camp Gruber	NGB	<i>Nicrophorus americanus</i>	American Burying Beetle	E	Insect	Both	Completed
Camp Murray	NGB	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	Completed
Camp Navajo Military Reservation	NGB	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	In Preparation
		<i>Strix occidentalis lucida</i>	Mexican Spotted Owl	T	Bird	Both	In Preparation

Installation	MACOM	Scientific Name	Common Name	Fed stat	Cat	Occur	ESMP
Camp Rilea	NGB	<i>Speyeria zerene hippolyta</i>	Oregon Silverspot Butterfly	T	Insect	Onsite	In Preparation
Camp Ripley	NGB	<i>Canis lupus</i>	Gray Wolf	T	Mammal	Both	In Preparation
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Onsite	Completed
Camp San Luis Obispo	NGB	<i>Cirsium fontinale var. obispoense</i>	Chorro Creek Bog Thistle	E	Plant	Both	In Preparation
		<i>Rana aurora draytoni</i>	California Red-legged Frog	PE	Amphibian	Both	In Preparation
		<i>Vireo bellii pusillus</i>	Least Bell's Vireo	E	Bird	Onsite	In Preparation
Camp Shelby	NGB	<i>Gopherus polyphemus</i>	Gopher Tortoise	T	Reptile	Both	In Preparation
		<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Cont.	In Preparation
Dillingham TA	USARPAC	<i>Anas wyvilliana</i>	Hawaiian Duck	E	Bird	Both	In Preparation
		<i>Cyperus trachysanthos</i>	Pu'uka'a	PE	Plant	Onsite	In Preparation
		<i>Fulica americana alai</i>	Hawaiian Coot	E	Bird	Both	In Preparation
		<i>Gallinula chloropus sandvicensis</i>	Hawaiian Gallinule	E	Bird	Both	In Preparation
		<i>Hibiscus brackenridgei ssp. mokuleianus</i>	Ma'o Hau Hele	E	Plant	Cont.	In Preparation
		<i>Himantopus mexicanus knudseni</i>	Hawaiian Stilt	E	Bird	Both	In Preparation
		<i>Monachus schauinslandi</i>	Hawaiian Monk Seal	E	Mammal	Both	In Preparation
		<i>Nototrichium humile</i>	Kulu'i	E	Plant	Onsite	In Preparation
		<i>Schiedea kealiae</i>	Ma'oli'oli	PE	Plant	Onsite	In Preparation
Ft. A.P. Hill	MDW	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	Completed
Ft. Belvoir	MDW	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	In Preparation
Ft. Benning	TRADOC	<i>Alligator mississippiensis</i>	American Alligator	T(S/A)	Reptile	Both	In Preparation
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	In Preparation
		<i>Mycteria americana</i>	Wood Stork	E	Bird	Both	In Preparation
		<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Onsite	In Preparation
		<i>Trillium reliquum</i>	Relict Trillium	E	Plant	Onsite	In Preparation
Ft. Bliss	TRADOC	<i>Coryphantha sneedii var. sneedii</i>	Sneed Pincushion Cactus	E	Plant	Both	In Preparation
		<i>Empidonax traillii extimus</i>	Southwestern Willow Flycatcher	E	Bird	Both	In Preparation
		<i>Falco femoralis septentrionalis</i>	Northern Aplomado Falcon	E	Bird	Cont.	In Preparation
		<i>Falco peregrinus anatum</i>	American Peregrine Falcon	E	Bird	Both	In Preparation
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	In Preparation
		<i>Strix occidentalis lucida</i>	Mexican Spotted Owl	T	Bird	Both	In Preparation

Installation	MACOM	Scientific Name	Common Name	Fed stat	Cat	Occur	ESMP
Ft. Bragg	FORSCOM	<i>Lysimachia</i>	Rough-leaved	E	Plant	Both	In Preparation
		<i>asperulaefolia</i>	Loosestrife				
		<i>Neonympha mitchellii</i>	Saint Francis' Satyr	E	Insect	Onsite	In Preparation
		<i>francisci</i>	Butterfly				
		<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Both	In Preparation
		<i>Rhus michauxii</i>	Michaux's Sumac	E	Plant	Both	In Preparation
Ft. Chaffee	TRADOC	<i>Schwalbea americana</i>	American Chaffseed	E	Plant	Both	In Preparation
		<i>Nicrophorus</i>	American Burying Beetle	E	Insect	Both	In Preparation
Ft. Eustis	TRADOC	<i>americanus</i>					
		<i>Falco peregrinus</i>	Peregrine Falcon	E(S/A)	Bird	Cont.	In Preparation
		<i>Haliaeetus</i>	Bald Eagle	T	Bird	Both	In Preparation
Ft. Gordon	TRADOC	<i>leucocephalus</i>					
		<i>Haliaeetus</i>	Bald Eagle	T	Bird	Onsite	In Preparation
		<i>Mycteria americana</i>	Wood Stork	E	Bird	Onsite	In Preparation
		<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Onsite	In Preparation
Ft. Hood	FORSCOM	<i>Dendroica chrysoparia</i>	Golden-cheeked Warbler	E	Bird	Both	In Preparation
		<i>Falco peregrinus</i>	Peregrine Falcon	E(S/A)	Bird	Both	In Preparation
		<i>Grus americana</i>	Whooping Crane	E	Bird	Both	In Preparation
		<i>Haliaeetus</i>	Bald Eagle	T	Bird	Both	In Preparation
		<i>leucocephalus</i>					
		<i>Vireo atricapillus</i>	Black-capped Vireo	E	Bird	Both	In Preparation
Ft. Hunter Liggett	USARC	<i>Branchinecta lynchi</i>	Vernal Pool Fairy Shrimp	T	Crustacean	Onsite	In Preparation
		<i>Bufo microscaphus</i>	Arroyo Southwestern Toad	E	Amphibian	Onsite	In Preparation
		<i>californicus</i>					
		<i>Haliaeetus</i>	Bald Eagle	T	Bird	Both	In Preparation
		<i>leucocephalus</i>					
Ft. Irwin	FORSCOM	<i>Vulpes macrotis mutica</i>	San Joaquin Kit Fox	E	Mammal	Both	In Preparation
		<i>Gopherus agassizii</i>	Desert Tortoise	T	Reptile	Both	In Preparation
Ft. Jackson	TRADOC	<i>Echinacea laevigata</i>	Smooth Coneflower	E	Plant	Onsite	In Preparation
		<i>Lysimachia</i>	Rough-leaved	E	Plant	Onsite	In Preparation
		<i>asperulaefolia</i>	Loosestrife				
		<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Onsite	In Preparation
Ft. Knox	TRADOC	<i>Haliaeetus</i>	Bald Eagle	T	Bird	Both	In Preparation
		<i>leucocephalus</i>					
		<i>Myotis grisescens</i>	Gray Bat	E	Mammal	Onsite	In Preparation
Ft. Lee	TRADOC	<i>Myotis sodalis</i>	Indiana Bat	E	Mammal	Both	In Preparation
		<i>Haliaeetus</i>	Bald Eagle	T	Bird	Both	In Preparation
Ft. Lewis	FORSCOM	<i>leucocephalus</i>					
		<i>Haliaeetus</i>	Bald Eagle	T	Bird	Both	Completed
		<i>Howellia aquatilis</i>	Water Howellia	T	Plant	Both	In Preparation
		<i>Strix occidentalis</i>	Northern Spotted Owl	T	Bird	H	Completed
		<i>caurina</i>					

Installation	MACOM	Scientific Name	Common Name	Fed stat	Cat	Occur	ESMP
Ft. McClellan	TRADOC	<i>Cyprinella caerulea</i>	Blue Shiner	T	Fish	Both	Completed
		<i>Marshallia mohrii</i>	Mohr's Barbara Buttons	T	Plant	Onsite	Completed
		<i>Myotis grisescens</i>	Gray Bat	E	Mammal	Both	Completed
		<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Cont.	Completed
		<i>Xyris tennesseensis</i>	Tennessee Yellow-eyed Grass	E	Plant	Both	Completed
Ft. McCoy	USARC	<i>Lycaeides melissa samuelis</i>	Karner Blue Butterfly	E	Insect	Both	In Preparation
Ft. Polk	FORSCOM	<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Both	In Preparation
Ft. Riley	FORSCOM	<i>Charadrius melodus</i>	Piping Plover	T	Bird	Both	In Preparation
		<i>Falco peregrinus</i>	Peregrine Falcon	E(S/A)	Bird	Both	In Preparation
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	In Preparation
		<i>Sterna antillarum</i>	Least Tern	E	Bird	Both	In Preparation
Ft. Sam Houston	MEDCOM	<i>Dendroica chrysoparia</i>	Golden-cheeked Warbler	E	Bird	Both	In Preparation
		<i>Vireo atricapillus</i>	Black-capped Vireo	E	Bird	Both	In Preparation
Ft. Sill	TRADOC	<i>Vireo atricapillus</i>	Black-capped Vireo	E	Bird	Both	In Preparation
Ft. Stewart & Hunter Army Airfield	FORSCOM	<i>Acipenser brevirostrum</i>	Shortnose Sturgeon	E	Fish	Both	In Preparation
		<i>Drymarchon corais couperi</i>	Eastern Indigo Snake	T	Reptile	Both	In Preparation
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	In Preparation
		<i>Mycteria americana</i>	Wood Stork	E	Bird	Both	In Preparation
		<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Onsite	In Preparation
Holston AAP	AMC	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	In Preparation
Kahuku TA	USARPAC	<i>Achatinella curta</i>	Pupu Kuahiwi	E	Snail	Cont.	In Preparation
		<i>Achatinella dimorpha</i>	Pupu Kuahiwi	E	Snail	Cont.	In Preparation
		<i>Achatinella sowerbyana</i>	Pupu Kuahiwi	E	Snail	Cont.	In Preparation
		<i>Achatinella valida</i>	Pupu Kuahiwi	E	Snail	Cont.	In Preparation
		<i>Adenophorus periens</i>	No Common Name	E	Plant	Onsite	In Preparation
		<i>Chamaesyce rockii</i>	Akoko	PE	Plant	Cont.	In Preparation
		<i>Cyanea grimesiana</i> ssp. <i>grimesiana</i>	Haha Oha	E	Plant	Cont.	In Preparation
		<i>Cyanea koolauensis</i>	Haha Oha	PE	Plant	Both	In Preparation
		<i>Cyanea longiflora</i>	Haha Oha	PE	Plant	Both	In Preparation
		<i>Eugenia koolauensis</i>	Nioi	E	Plant	Onsite	In Preparation
		<i>Gardenia mannii</i>	Nanu	PE	Plant	Both	In Preparation
		<i>Hesperomannia arborescens</i>	No Common Name	E	Plant	Both	In Preparation
		<i>Phyllostegia hirsuta</i>	No Common Name	PE	Plant	Cont.	In Preparation
		<i>Solanum sandwicense</i>	Popolo `Aiakeakua	E	Plant	Cont.	In Preparation
		<i>Tetraplasandra gymnocarpa</i>	`Ohe`ohe	E	Plant	Both	In Preparation

Installation	MACOM	Scientific Name	Common Name	Fed stat	Cat	Occur	ESMP
Kawailoa TA	USARPAC	<i>Achatinella rosea</i>	Pupu Kuahiwi	E	Snail	Onsite	In Preparation
		<i>Achatinella apexfulva</i>	Pupu Kuahiwi	E	Snail	Onsite	In Preparation
		<i>Achatinella bulimoides</i>	Pupu Kuahiwi	E	Snail	Onsite	In Preparation
		<i>Achatinella byronii</i>	Pupu Kuahiwi	E	Snail	Both	In Preparation
		<i>Achatinella decipiens</i>	Pupu Kuahiwi	E	Snail	Both	In Preparation
		<i>Achatinella leucorraphe</i>	Pupu Kuahiwi	E	Snail	Onsite	In Preparation
		<i>Achatinella lila</i>	Pupu Kuahiwi	E	Snail	Both	In Preparation
		<i>Achatinella livida</i>	Pupu Kuahiwi	E	Snail	Both	In Preparation
		<i>Achatinella pulcherrima</i>	Pupu Kuahiwi	E	Snail	Onsite	In Preparation
		<i>Achatinella sowerbyana</i>	Pupu Kuahiwi	E	Snail	Both	In Preparation
		<i>Achatinella swiftii</i>	Pupu Kuahiwi	E	Snail	Onsite	In Preparation
		<i>Adenophorus periens</i>	No Common Name	E	Plant	Onsite	In Preparation
		<i>Chamaesyce rockii</i>	Akoko	PE	Plant	Both	In Preparation
		<i>Cyanea acuminata</i>	Haha Oha	PE	Plant	Both	In Preparation
		<i>Cyanea grimesiana</i> ssp. <i>grimesiana</i>	Haha Oha	E	Plant	Both	In Preparation
		<i>Cyanea koolauensis</i>	Haha Oha	PE	Plant	Both	In Preparation
		<i>Cyanea longiflora</i>	Haha Oha	PE	Plant	Both	In Preparation
		<i>Cyrtandra dentata</i>	Ha'iwale	PE	Plant	Onsite	In Preparation
		<i>Cyrtandra viridiflora</i>	Ha'iwale	PE	Plant	Both	In Preparation
		<i>Delissea subcordata</i>	`Oha	PE	Plant	Cont.	In Preparation
		<i>Eugenia koolauensis</i>	Nioi	E	Plant	Cont.	In Preparation
		<i>Gardenia mannii</i>	Nanu	PE	Plant	Both	In Preparation
		<i>Hesperomannia arborescens</i>	No Common Name	E	Plant	Both	In Preparation
		<i>Labordia cyrtandrae</i>	Kamakahala	PE	Plant	Both	In Preparation
		<i>Lasiurus cinereus semotus</i>	Hawaiian Hoary Bat	E	Mammal	Both	In Preparation
		<i>Lobelia gaudichaudii</i> ssp. <i>koolauensis</i>	Haha Oha	PE	Plant	Both	In Preparation
		<i>Lobelia oahuensis</i>	Haha Oha	E	Plant	Both	In Preparation
		<i>Lycopodium nutans</i>	Wawae' Iole	E	Plant	Onsite	In Preparation
		<i>Melicope lydgatei</i>	Alani	E	Plant	Onsite	In Preparation
		<i>Myrsine juddii</i>	Kolea	PE	Plant	Both	In Preparation
		<i>Paroreomyza flammea</i>	Molokai Creeper	E	Bird	Both	In Preparation
		<i>Phyllostegia hirsuta</i>	No Common Name	PE	Plant	Onsite	In Preparation
		<i>Phyllostegia parviflora</i> var. <i>parviflora</i>	No Common Name	E	Plant	Onsite	In Preparation
		<i>Plantago princeps</i> var. <i>longibracteata</i>	Laukahi Kuahiwi	E	Plant	Both	In Preparation
		<i>Platanthera holochila</i>	No Common Name	PE	Plant	Cont.	In Preparation
		<i>Pteris lidgatei</i>	No Common Name	E	Plant	Onsite	In Preparation
		<i>Rollandia crispa</i>	Haha Oha	E	Plant	Both	In Preparation
		<i>Sanicula purpurea</i>	No Common Name	PE	Plant	Both	In Preparation
		<i>Tetraplasandra gymnocarpa</i>	`Ohe`ohe	E	Plant	Both	In Preparation
		<i>Viola oahuensis</i>	No Common Name	PE	Plant	Both	In Preparation



Installation	MACOM	Scientific Name	Common Name	Fed stat	Cat	Occur	ESMP
Leesburg TS	NGB	<i>Echinacea laevigata</i>	Smooth Coneflower	E	Plant	Onsite	In Preparation
		<i>Lysimachia asperulaefolia</i>	Rough-leaved Loosestrife	E	Plant	Onsite	In Preparation
		<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Onsite	In Preparation
Lil Aaron Straus Wilderness Area	NGB	<i>Ptilimnium nodosum</i>	Harperella	E	Plant	Both	In Preparation
Macon TS	NGB	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	In Preparation
Makua Military Reservation	USARPAC	<i>Achatinella mustelina</i>	Pupu Kuahiwi	E	Snail	Both	In Preparation
		<i>Alectryon macrococcus var. macrococcus</i>	Mahoe Ala'alahua	E	Plant	Both	In Preparation
		<i>Alsinidendron obovatum</i>	No Common Name	E	Plant	Both	In Preparation
		<i>Bonamia menziesii</i>	No Common Name	E	Plant	Onsite	In Preparation
		<i>Caesalpinia kavaiaense</i>	Uhiuhi	E	Plant	Onsite	In Preparation
		<i>Cenchrus agrimonioides</i>	Kamanomano	PE	Plant	Onsite	In Preparation
		<i>Ctenitis squamigera</i>	Pauoa	E	Plant	Cont.	In Preparation
		<i>Cyanea superba ssp. superba</i>	Oha	E	Plant	Onsite	In Preparation
		<i>Delissea subcordata</i>	`Oha	PE	Plant	Cont.	In Preparation
		<i>Diellia falcata</i>	No Common Name	E	Plant	Both	In Preparation
		<i>Dubautia herbstobatae</i>	Na`ena`e	E	Plant	Both	In Preparation
		<i>Euphorbia haeleeleana</i>	`Akoko	PE	Plant	Onsite	In Preparation
		<i>Flueggea neowawraea</i>	Mehamehame	E	Plant	Onsite	In Preparation
		<i>Hedyotis parvula</i>	No Common Name	E	Plant	Both	In Preparation
		<i>Lepidium arbuscula</i>	Anaunau	PE	Plant	Both	In Preparation
		<i>Lipochaeta tenuifolia</i>	Nehe	E	Plant	Onsite	In Preparation
		<i>Lobelia niihauensis</i>	Haha Oha	E	Plant	Cont.	In Preparation
		<i>Neraudia angulata var. angulata</i>	Ma'aloa	E	Plant	Onsite	In Preparation
		<i>Neraudia angulata var. dentata</i>	Ma'aloa	E	Plant	Onsite	In Preparation
		<i>Nototrichium humile</i>	Kulu'i	E	Plant	Both	In Preparation
		<i>Paroreomyza flammea</i>	Molokai Creeper	E	Bird	Both	In Preparation
		<i>Plantago princeps var. princeps</i>	Laukahi Kuahiwi	E	Plant	Both	In Preparation
		<i>Pritchardia kaalae</i>	Loulu	PE	Plant	Onsite	In Preparation
		<i>Sanicula mariversa</i>	No Common Name	E	Plant	Both	In Preparation
		<i>Schiedea hookeri</i>	No Common Name	PE	Plant	Both	In Preparation
		<i>Schiedea nuttallii</i>	No Common Name	PE	Plant	Onsite	In Preparation
		<i>Silene lanceolata</i>	Lanceleaf Catchfly	E	Plant	Onsite	In Preparation
<i>Spermolepis hawaiiensis</i>	Hawaiian Parsley	E	Plant	Both	In Preparation		
<i>Tetramolopium filiforme var. polyphyllum</i>	No Common Name	E	Plant	Both	In Preparation		

Installation	MACOM	Scientific Name	Common Name	Fed stat	Cat	Occur	ESMP
		<i>Tetramolopium lepidotum ssp. lepidotum</i>	No Common Name	E	Plant	Cont.	In Preparation
		<i>Viola chamissoniana ssp. chamissoniana</i>	Pamakani	E	Plant	Onsite	In Preparation
Martinez Reserve Center	USARC	<i>Chamaesyce deltoidea ssp. deltoidea</i>	Deltoid Spurge	E	Plant	Both	Completed
McAlester AAP	AMC	<i>Nicrophorus americanus</i>	American Burying Beetle	E	Insect	Both	In Preparation
Picatinny Arsenal Tacom-ARDEC	AMC	<i>Myotis sodalis</i>	Indiana Bat	E	Mammal	Both	In Preparation
Pohakuloa TA	USARPAC	<i>Asplenium fragile var. insulare</i>	Fragile Fern	E	Plant	Onsite	In Preparation
		<i>Buteo solitarius</i>	Hawaiian Hawk	E	Bird	Both	In Preparation
		<i>Corvus hawaiiensis</i>	Alala Hawaiian Crow	E	Bird	Cont.	In Preparation
		<i>Haplostachys haplostachya</i>	No Common Name	E	Plant	Both	In Preparation
		<i>Hedyotis coriacea</i>	Kio'ele	E	Plant	Onsite	In Preparation
		<i>Hemignathus munroi</i>	'Akiapola'au	E	Bird	Both	In Preparation
		<i>Lasiurus cinereus semotus</i>	Hawaiian Hoary Bat	E	Mammal	Both	In Preparation
		<i>Loxioides bailleui</i>	Paliia	E	Bird	Both	In Preparation
		<i>Loxops coccineus coccineus</i>	Hawaii 'Akepa	E	Bird	Cont.	Completed
		<i>Neraudia ovata</i>	Ma'aloa	PE	Plant	Onsite	In Preparation
		<i>Nesochen sandvicensis</i>	Hawaiian Goose	E	Bird	Both	In Preparation
		<i>Oreomystis mana</i>	Hawaii Creeper	E	Bird	Cont.	Completed
		<i>Portulaca sclerocarpa</i>	Po'e	E	Plant	Both	In Preparation
		<i>Psittirostra psittacea</i>	O'u	E	Bird	Cont.	Completed
		<i>Pterodroma phaeopygia sandwichensis</i>	Hawaiian Dark-rumped Petrel	E	Bird	Cont.	In Preparation
		<i>Silene hawaiiensis</i>	Hawaiian Catchfly	T	Plant	Onsite	In Preparation
		<i>Silene lanceolata</i>	Lanceleaf Catchfly	E	Plant	Onsite	In Preparation
		<i>Solanum incompletum</i>	Spiny Popolo	E	Plant	Onsite	In Preparation
		<i>Spermolepis hawaiiensis</i>	Hawaiian Parsley	E	Plant	Onsite	In Preparation
		<i>Stenogyne angustifolia</i>	No Common Name	E	Plant	Onsite	In Preparation
		<i>Tetramolopium arenarium</i>	Mauna Kea Pamakani	E	Plant	Onsite	In Preparation
		<i>Zanthoxylum hawaiiense</i>	A'e	E	Plant	Both	In Preparation
Pom Annex	TRADOC	<i>Anniella pulchra nigra</i>	California Black Legless Lizard	PE	Reptile	Both	Completed
		<i>Charadrius alexandrinus nivosus</i>	Western Snowy Plover	T	Bird	Both	Completed
		<i>Chorizanthe pungens var. pungens</i>	Monterey Spineflower	T	Plant	Both	Completed
		<i>Chorizanthe robusta</i>	Robust Spineflower	E	Plant	Both	Completed
		<i>Euphilotes enoptes smithi</i>	Smith's Blue Butterfly	E	Insect	Both	Completed

Installation	MACOM	Scientific Name	Common Name	Fed stat	Cat	Occur	ESMP
		<i>Gilia tenuiflora</i> ssp. <i>arenaria</i>	Monterey Sand Gilia	E	Plant	Both	Completed
		<i>Piperia yadonii</i>	Yadon's Piperia	PE	Plant	Both	Completed
		<i>Rana aurora draytoni</i>	California Red-legged Frog	PE	Amphibian	Cont.	Completed
Presidio of Monterey (POM)	TRADOC	<i>Piperia yadonii</i>	Yadon's Piperia	PE	Plant	Both	In Preparation
Redstone Arsenal	AMC	<i>Apios priceana</i>	Price's Potato Bean	T	Plant	Onsite	In Preparation
		<i>Palaemonias alabamiae</i>	Alabama Cave Shrimp	E	Crustacean	Both	In Preparation
Savanna Army Depot Activity	AMC	<i>Haliaeetus</i> <i>leucocephalus</i>	Bald Eagle	T	Bird	Both	Completed
Schofield Barracks Military Reservation	USARPAC	<i>Abutilon sandwicense</i>	No Common Name	E	Plant	Cont.	In Preparation
		<i>Achatinella apexfulva</i>	Pupu Kuahiwi	E	Snail	Onsite	In Preparation
		<i>Achatinella byronii</i>	Pupu Kuahiwi	E	Snail	Both	In Preparation
		<i>Achatinella decipiens</i>	Pupu Kuahiwi	E	Snail	Both	In Preparation
		<i>Achatinella leucorraphe</i>	Pupu Kuahiwi	E	Snail	Both	In Preparation
		<i>Achatinella mustelina</i>	Pupu Kuahiwi	E	Snail	Both	In Preparation
		<i>Achatinella sowerbyana</i>	Pupu Kuahiwi	E	Snail	Both	In Preparation
		<i>Achatinella swiftii</i>	Pupu Kuahiwi	E	Snail	Both	In Preparation
		<i>Alectryon macrococcus</i> <i>var. macrococcus</i>	Mahoe Ala'alahua	E	Plant	Both	In Preparation
		<i>Alsindendron trinerve</i>	No Common Name	E	Plant	Both	In Preparation
		<i>Cenchrus</i> <i>agrimonioides</i>	Kamanomano	PE	Plant	Onsite	In Preparation
		<i>Chamaesyce rockii</i>	Akoko	PE	Plant	Both	In Preparation
		<i>Ctenitis squamigera</i>	Pauoa	E	Plant	Cont.	In Preparation
		<i>Cyanea acuminata</i>	Haha Oha	PE	Plant	Both	In Preparation
		<i>Cyanea grimesiana</i> ssp. <i>grimesiana</i>	Haha Oha	E	Plant	Both	In Preparation
		<i>Cyanea grimesiana</i> ssp. <i>obatae</i>	Haha Oha	E	Plant	Cont.	In Preparation
		<i>Cyanea koolauensis</i>	Haha Oha	PE	Plant	Both	In Preparation
		<i>Cyanea longiflora</i>	Haha Oha	PE	Plant	Both	In Preparation
		<i>Cyanea superba</i> ssp. <i>superba</i>	Oha	E	Plant	Onsite	In Preparation
		<i>Cyrtandra</i> <i>subumbellata</i>	Ha'iwale	PE	Plant	Both	In Preparation
		<i>Delissea subcordata</i>	Oha	PE	Plant	Cont.	In Preparation
		<i>Diellia falcata</i>	No Common Name	E	Plant	Both	In Preparation
		<i>Diplazium molokaiense</i>	No Common Name	E	Plant	Cont.	In Preparation
		<i>Eragrostis fosbergii</i>	Fosberg's Love Grass	PE	Plant	Cont.	In Preparation
		<i>Flueggea neowawraea</i>	Mehamehame	E	Plant	Cont.	In Preparation
		<i>Gardenia mannii</i>	Nanu	PE	Plant	Both	In Preparation
		<i>Hesperomannia</i> <i>arborescens</i>	No Common Name	E	Plant	Both	In Preparation
		<i>Isodendrion</i> <i>laurifolium</i>	Aupaka	PE	Plant	Both	In Preparation
		<i>Labordia cyrtandrae</i>	Kamakahala	PE	Plant	Onsite	In Preparation

Installation	MACOM	Scientific Name	Common Name	Fed stat	Cat	Occur	ESMP
		<i>Lasiurus cinereus semotus</i>	Hawaiian Hoary Bat	E	Mammal	Both	In Preparation
		<i>Lepidium arbuscula</i>	Anaunau	PE	Plant	Both	In Preparation
		<i>Lipochaeta lobata var. leptophylla</i>	Nehe	E	Plant	Cont.	In Preparation
		<i>Lobelia niihauensis</i>	Haha Oha	E	Plant	Both	In Preparation
		<i>Lobelia oahuensis</i>	Haha Oha	E	Plant	Both	In Preparation
		<i>Lycopodium nutans</i>	Wawae Iole	E	Plant	Cont.	In Preparation
		<i>Neraudia angulata var. angulata</i>	Ma'aloa	E	Plant	Onsite	In Preparation
		<i>Neraudia angulata var. dentata</i>	Ma'aloa	E	Plant	Onsite	In Preparation
		<i>Nototrichium humile</i>	Kulu'i	E	Plant	Cont.	In Preparation
		<i>Paroreomyza flammea</i>	Molokai Creeper	E	Bird	Both	In Preparation
		<i>Phyllostegia hirsuta</i>	No Common Name	PE	Plant	Both	In Preparation
		<i>Phyllostegia mollis</i>	No Common Name	E	Plant	Cont.	In Preparation
		<i>Pritchardia kaalae</i>	Loulu	PE	Plant	Cont.	In Preparation
		<i>Pteris lidgatei</i>	No Common Name	E	Plant	Onsite	In Preparation
		<i>Sanicula purpurea</i>	No Common Name	PE	Plant	Both	In Preparation
		<i>Schiedea hookeri</i>	No Common Name	PE	Plant	Both	In Preparation
		<i>Schiedea nuttallii</i>	No Common Name	PE	Plant	Cont.	In Preparation
		<i>Solanum sandwicense</i>	Popolo `Aiakeakua	E	Plant	Cont.	In Preparation
		<i>Stenogyne kanehoana</i>	No Common Name	E	Plant	Cont.	In Preparation
		<i>Tetramolopium lepidotum ssp. lepidotum</i>	No Common Name	E	Plant	Cont.	In Preparation
		<i>Tetraplasandra gymnocarpa</i>	`Ohe`ohe	E	Plant	Both	In Preparation
		<i>Urera kaalae</i>	Opuhe	E	Plant	Both	In Preparation
		<i>Viola chamissoniana ssp. chamissoniana</i>	Pamakani	E	Plant	Both	In Preparation
		<i>Viola oahuensis</i>	No Common Name	PE	Plant	Both	In Preparation
Skelton TS	NGB	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	In Preparation
		<i>Lampsilis abrupta</i>	Pink Mucket Pearlymussel	E	Clam	Cont.	In Preparation
		<i>Scaphirhynchus albus</i>	Pallid Sturgeon	E	Fish	Cont.	In Preparation
		<i>Sterna antillarum</i>	Least Tern	E	Bird	Both	In Preparation
St. George Armory	NGB	<i>Arctomecon humilis</i>	Dwarf Bearclaw Poppy	E	Plant	Both	Completed
Stead TS	NGB	<i>Falco peregrinus</i>	Peregrine Falcon	E(S/A)	Bird	Both	Completed
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	Completed
Sunny Point	MTMC	<i>Alligator mississippiensis</i>	American Alligator	T(S/A)	Reptile	Both	In Preparation
		<i>Lysimachia asperulaefolia</i>	Rough-leaved Loosestrife	E	Plant	Both	In Preparation
		<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Both	In Preparation

Installation	MACOM	Scientific Name	Common Name	Fed stat	Cat	Occur	ESMP
Truman TS	NGB	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	In Preparation
Tullahoma TS	NGB	<i>Helianthus eggertii</i>	Eggert's Sunflower	PT	Plant	Both	In Preparation
Volunteer AAP	AMC	<i>Scutellaria montana</i>	Large-flowered Skullcap	E	Plant	Onsite	Completed
West Point	USMA	<i>Acipenser brevirostrum</i>	Shortnose Sturgeon	E	Fish	Both	In Preparation
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	In Preparation
White Sands Missile Range	AMC	<i>Falco femoralis septentrionalis</i>	Northern Aplomado Falcon	E	Bird	Both	In Preparation
		<i>Falco peregrinus anatum</i>	American Peregrine Falcon	E	Bird	Both	In Preparation

## Appendix E: Listing of Restrictions/Impacts for Installations, by Species

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### *ACHATINELLA MUSTELINA*

#### MAKUA MILITARY RESERVATION [TRAIN]

RESTR: All training restricted to Fire Break Road.

IMPACT: None

#### MAKUA MILITARY RESERVATION [TRAIN]

RESTR: No pyrotechnics.

IMPACT: None

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### *ARCTOMECON HUMILIS*

#### ST. GEORGE ARMORY [TRAIN]

RESTR: No vehicular traffic within the limited area of this plant's habitat (foot traffic is allowed).

IMPACT: Vehicular or other soil impacts are prohibited, while foot traffic is actually encouraged for biological reasons. The impact involved rearranging the location of different activities on the 70 acre armory, with a negligible end impact.

---

### *ASPLENIUM FRAGILE VAR. INSULARE*

#### POHAKULOLO TA [TRAIN]

RESTR: No fires or use of any type pyrotechnic or incendiary munitions.

IMPACT: Soldiers not allowed to use pyrotechnics or incendiary munitions due to high flammability of vegetation.

#### POHAKULOLO TA [TRAIN]

RESTR: No digging in undisturbed areas.

IMPACT: No digging is allowed in non-disturbed areas due to high likelihood of endangered species in area and the slow rate of recovery of ground cover due to dry climate

#### POHAKULOLO TA [TRAIN]

RESTR: No off-road vehicle traffic.

IMPACT: No off-road vehicle traffic due to threat of impacting endangered species and the slow rate of recovery and likelihood of soil erosion.

#### POHAKULOLO TA [TRAIN]

RESTR: No cutting or removing of vegetation in habitat.

IMPACT: No removal of vegetation due to threat of impacting endangered species and endangered species habitat.

#### POHAKULOLO TA [TRAIN]

RESTR: Foot march is restricted in certain areas.

IMPACT: Soldiers not allowed to walk on rocky outcrops due to high risk of harming endangered species.

**(ASPLENIUM FRAGILE VAR. INSULARE Continued)**

## POHAKULOA TA [TRAIN]

RESTR: Large proportion of habitat is off-limits to all training due to pending decision on biological assessment.

IMPACT: Not available for training

## POHAKULOA TA [TRAIN]

RESTR: Access to area restricted with gates and area is off limits to all training activities.

IMPACT: Not available for training.

---

**ASTRAGALUS JAEGERIANUS**

## FT IRWIN [TEST]

RESTR: This plant is found in desert tortoise critical habitat and on the outleased Goldstone Deep Space Research Center. These areas are off limits to training.

IMPACT: None

## FT IRWIN [TRAIN]

RESTR: This plant is found in desert tortoise critical habitat and on the outleased Goldstone Deep Space Research Center. These areas are off limits to training.

IMPACT: None

---

**BRANCHINECTA LYNCHI**

## CAMP ROBERTS [TEST]

RESTR: Until a Biological Opinion is rendered, preactivity surveys must be conducted prior to training activity to determine if activities threaten fairy shrimp or its habitat.

IMPACT: Testing activities may experience short delays until survey is completed. Can still complete testing.

## CAMP ROBERTS [TRAIN]

RESTR: Until a Biological Opinion is rendered, preactivity surveys must be conducted prior to training activity to determine if activities threaten fairy shrimp or its habitat.

IMPACT: Units can experience short delays before training commences until survey is completed. Can still train to standard.

## CAMP ROBERTS [TEST]

RESTR: Flagged or excluded habitat must be avoided.

IMPACT: Testing activities may have to be relocated to avoid impacts to fairy shrimp.

## CAMP ROBERTS [TRAIN]

RESTR: Flagged or excluded habitat must be avoided.

IMPACT: Units may have to relocate activity to avoid impacts to fairy shrimp. Usually can still train to standard.

## FT HUNTER LIGGETT [TEST]

REST: No new construction of roads or buildings within 200m of high quality vernal pools.

IMPACT: None

## FT HUNTER LIGGETT [TRAIN]

REST: No new construction of roads or buildings within 200m of high quality vernal pools.

IMPACT: None

---

**CHLOROGALIUM PURPUREUM VAR. PURPUREUM****FT HUNTER LIGGETT [TEST]**

RESTR: Avoid disturbance of purple amole populations without adversely affecting training requirements.

IMPACT: None

**FT HUNTER LIGGETT [TRAIN]**

RESTR: Avoid disturbance of purple amole populations without adversely affecting training requirements.

IMPACT: None

---

**CYPRINELLA CAERULEA****FT MCCLELLAN [TRAIN]**

RESTR: Avoid actions in Choccolocco Creek.

IMPACT: None

---

**DENDROICA CHRYSOPARIA****FT HOOD [TRAIN]**

RESTR: Maneuver: No digging of battle/fighting/firing positions, use ONLY existing positions and improve above ground.

IMPACT: AR, INF, FA, ENG, C2,CS, CSS, S&S, LOG can't train to standards. No immediate action drills can be exercised.

**FT HOOD [TRAIN]**

RESTR: Ranges: No clearing of habitats that obscure targets/ target lines. Immediate fire equip/pers requirements.

IMPACT: AR, INF, FA, ENG, C2,CS, CSS, S&S, LOG can't train to standards. No immediate action drills can be exercised.

**FT HOOD [TRAIN]**

RESTR: Two (2) hour limit for unit (regardless of size or event) to be in the habitat. Units can't travel through habitats more than two hrs per 24 hr day.

IMPACT: AR, INF, FA, ENG, C2,CS, CSS, S&S, LOG can't train to standards. No immediate action drills can be exercised.

**FT HOOD [TRAIN]**

RESTR: Units can't conduct any training in habitats. No use of smoke, chemical grenades/devices or conduct of Artillery live fire in or within 100 meters of habitats.

IMPACT: AR, INF, FA, ENG, C2,CS, CSS, S&S, LOG can't train to standards. No immediate action drills can be exercised.

**FT SAM HOUSTON [TRAIN]**

RESTR: High intensity training in habitat areas during the breeding season.

IMPACT: No high intensity training during the breeding season.

---

**DENDROICA KIRTLANDII****CAMP GRAYLING [TRAIN]**

RESTR: No military activity of any kind in Kirtland's Warbler Permanent Management Unit.

IMPACT: Area was permanently designated as mitigation for the ability to discourage habitat in more important training areas and to move the birds to a safer area. Impacts activity on approximately 4,000 ac. of nonessential training land.



**(DENDROICA KIRTLANDII** Continued)**CAMP GRAYLING [TRAIN]**

RESTR: No off-road movement by troops or vehicles in areas occupied by KWs the previous or current year.

IMPACT: Area and impact varies from year to year depending on occupation by warblers.

---

**ECHINACEA LAEVIGATA****FT JACKSON [TRAIN]**

RESTR: There are no training activities of any kind allowed within the boundaries of the population site.

IMPACT: None

**LEESBURG TS [TRAIN]**

RESTR: Area is completely off-limits to training.

IMPACT: Reroute nearby tank trail. Must plan maneuvers to avoid this area.

---

**FALCO FEMORALIS SEPTENTRIONALIS****WHITE SANDS MISSILE RANGE [TEST]**

RESTR: Pre-test surveys to detect the occurrence of this species are required in potentially suitable habitat.

IMPACT: Monitoring efforts cost testers approximately \$50-100 K/year.

---

**FALCO PEREGRINUS****CLARK COUNTY TS [TRAIN]**

RESTR: No weapons firing will be allowed on this Training Site.

IMPACT: No firing or smoke can be allowed at this training site. Private Housing adjoins this training area, as well as the wildlife restrictions.

**SIERRA ARMY DEPOT [TEST]**

RESTR: No testing or training at Honey Lake.

IMPACT: Not available for training.

**SIERRA ARMY DEPOT [TRAIN]**

RESTR: No testing or training at Honey Lake.

IMPACT: Not available for training.

---

**FALCO PEREGRINUS ANATUM****WHITE SANDS MISSILE RANGE [TEST]**

RESTR: No precedent.

IMPACT: None

---

**GOPHERUS AGASSIZII****CLARK COUNTY TS [TRAIN]**

RESTR: All vehicles will be restricted to existing roads on the Training Site.

IMPACT: USFWS restrictions limit training to existing roads. Adjoining USAF airbase limits any aviation or field artillery training at this site.

**(GOPHERUS AGASSIZII Continued)****FT IRWIN [TEST]**

RESTR: Critical habitat has been established south of the UTM 90 grid line. This area is restricted to all training and testing, except for land navigation on foot.

IMPACT: Eliminates use of one corridor by tracked vehicles due to accuracy of guns on two hills (OP1 & OP2) within range of the 90 grid line.

**FT IRWIN [TRAIN]**

RESTR: Critical habitat has been established south of the UTM 90 grid line. This area is restricted to all training and testing, except for land navigation on foot.

IMPACT: Eliminates use of one corridor by tracked vehicles due to accuracy of guns on two hills (OP1 & OP2) within range of the 90 grid line.

---

**GOPHERUS POLYPHEMUS****CAMP SHELBY [TRAIN]**

RESTR: No vehicle movement within colony sites, except on artillery firing points. All gopher tortoise burrows have been GPSed and permanently tagged. Burrows on artillery firing points are marked with one metal post and sign.

IMPACT: Gopher tortoise burrows and colony sites has restricted use of maneuver areas and artillery firing points.

---

**HALIAEETUS LEUCOCEPHALUS****ABERDEEN PROVING GROUND [TEST]**

RESTR: Nest may limit timing of tests and roosts require limits to the time of day work can occur. Proposed tests must be evaluated for species impacts. Some tests may have been relocated to other installations if conflicts were found.

IMPACT: None

**ADELPHI ARMY RESEARCH LABS [TEST]**

RESTR: Acoustic Profiling evaluation restricted during Bald Eagle nesting season.

IMPACT: Acoustic Propagation (Noise) Research and evaluation is limited to non-nesting periods of the species.

**CAMP GRAYLING [TRAIN]**

RESTR: No military activity or overflights allowed within 1/4 mile, vertical or horizontal, of any active nesting sites.

IMPACT: Maximum of two active nests on the installation to-date has only caused slight adjustment of flight paths.

**CAMP GUERNSEY [TRAIN]**

RESTR: Bald Eagle Winter Habitat Area. Area off limits to construction and aircraft overflights from November 1 through April 30, 500 feet A.G.L. Minimum.

IMPACT: Helicopters cannot fly NOE through restricted corridor. Engineers cannot conduct construction activities.

**CAMP NAVAJO MILITARY RESERVATION [TRAIN]**

RESTR: Minimum disturbance within 1/2 mile of known roosting area winter.

IMPACT: This site is within a restricted Ammo storage area and only certain ordinance train here.

**CAMP RIPLEY [TRAIN]**

RESTR: No vehicular movement (except on established roads) or aircraft movements within 400 meters of active nest site 15 March to 15 June and within 200 meters any other times of the year.

IMPACT: None

*(HALIAEETUS LEUCOCEPHALUS* Continued)

## CLARK COUNTY TS [TRAIN]

RESTR: No weapons firing will be allowed on this Training Site.

IMPACT: No firing or smoke can be allowed at this training site. Private Housing adjoins this training area, as well as the wildlife restrictions.

## FT BELVOIR [TRAIN]

RESTR: Area T-10 is closed to all troop training 1 December to 31 July.

IMPACT: Chemical units cannot employ smoke grenades or pyrotechnics adjacent to nest site (T-10). Alternate site are available to train to standard.

## FT BELVOIR [TRAIN]

RESTR: Area W-7 is closed to overflights by helicopters under 1,000 feet and fixed wing aircraft under 500 feet year round. Area T-10 is closed to overflights from 1 December to 31 July.

IMPACT: Overflight altitude restrictions in the nest area must be considered during flight planning.

## FT BENNING [TRAIN]

RESTR: No training within a 1,500 foot radius of the nest.

IMPACT: None

## FT BENNING [TRAIN]

RESTR: Aircraft must fly 1 km from the nest.

IMPACT: None

## FT HOOD [TRAIN]

RESTR: No fly zone, 0 to 1,000 ft.

IMPACT: No aircraft allowed to over fly the area.

## FT HUNTER LIGGETT [TEST]

RESTR: New, disruptive activities are limited within 500m of bald eagle nest.

IMPACT: Exercises may have to move into less desirable areas due to the nest site.

## FT HUNTER LIGGETT [TRAIN]

RESTR: New, disruptive activities are limited within 500m of bald eagle nest.

IMPACT: Exercises may have to move into less desirable areas due to the nest site.

## FT LEE [TRAIN]

RESTR: November 15 to July 15, no activities within 750 feet of nest tree. Minimal disturbances within 1320 feet from the nest tree. Most activities possible outside of this zone for the remainder of year.

IMPACT: None

## FT LEWIS [TRAIN]

RESTR: Aircraft will fly no lower than 1300 feet MSL over Muck Creek (3.25 river miles) extending 500 meters on each side of the creek. During critical winter foraging period (Dec. 1 to Mar. 31).

IMPACT: None

## FT LEWIS [TRAIN]

RESTR: No bivouac within 400 meters of nests (Dec. 1 - Aug. 31).

IMPACT: Approx. 124 acres around active nests not available for bivouacking.

## FT LEWIS [TRAIN]

RESTR: Exclude demolition, live fire exercises, within 800 meters of active nests and roosts December 1 to August 31 (nests) and December 15 to March 31 (roosts).

IMPACT: Approx. 497 acres around active nests and roosts not available for live- fire exercises and demolition.

**(HALIAEETUS LEUCOCEPHALUS Continued)****FT STEWART & HUNTER ARMY AIRFIELD [TRAIN]**

RESTR: No low altitude overflight (rotary wing - 500 ft; fixed wing - 1000 ft.) during nesting season.

IMPACT: Within restricted area/season, units cannot conduct aviation training to doctrinal standards.

**FT STEWART & HUNTER ARMY AIRFIELD [TRAIN]**

RESTR: No activity within 750 ft of nest during nesting season (Nov. - Apr.).

IMPACT: Within restricted area/season, units cannot train to doctrinal standards.

**HOLSTON AAP [NONE OF THE ABOVE]**

RESTR: No vehicles or personnel allowed within 1500 feet of the bald eagle nest.

IMPACT: Primary Nesting Zone (1500 ft. radius) established -- no access by personnel or vehicles permitted. Required the temporary closing of the Truck Classification Yard during the nesting season, which is used to determine status of explosives trailers. Explosives trailers were relocated to another site outside of the primary nesting zone. Secondary zone (2500 ft. radius) established -- all installation activities except major construction/disturbance activities can continue during nesting season.

**SIERRA ARMY DEPOT [TEST]**

RESTR: No testing or training at Honey Lake.

IMPACT: Not available for training.

**SIERRA ARMY DEPOT [TRAIN]**

RESTR: No testing or training at Honey Lake.

IMPACT: Not available for training.

**TRUMAN TS [TRAIN]**

RESTR: No fly zone within 1 mile radius of active nests located adjacent to training site.

IMPACT: None

**YAKIMA TRAINING CENTER [TRAIN]**

RESTR: Prohibit overflight of Bald Eagle roost and perch areas seasonally.

IMPACT: Flight routes on YTC are shifted during this time period. Flights can be conducted utilizing alternate routes.

**YAKIMA TRAINING CENTER [TRAIN]**

RESTR: Minimization of travel along Hanson Creek Road on YTC from 1500-0900 from late December to late March.

IMPACT: Vehicle movement is limited during this seasonal restriction. Mission can be accomplished utilizing alternate routes or shifting time of training.

**HAPLOSTACHYS HAPLOSTACHYA****POHAKULOA TA [TRAIN]**

RESTR: No fires or use of any type pyrotechnic or incendiary munitions.

IMPACT: Soldiers not allowed to use pyrotechnics or incendiary munitions due to high flammability of vegetation.

**POHAKULOA TA [TRAIN]**

RESTR: No digging in undisturbed areas.

IMPACT: No digging is allowed in non-disturbed areas due to high likelihood of endangered species in area and the slow rate of recovery of ground cover due to dry climate.

*(Haplostachys Haplostachya* Continued)

## POHAKULOA TA [TRAIN]

RESTR: No off-road vehicle traffic.

IMPACT: No off-road vehicle traffic due to threat of impacting endangered species and the slow rate of recovery and likelihood of soil erosion.

## POHAKULOA TRAINING AREA [TRAIN]

RESTR: No cutting or removing of vegetation in habitat.

IMPACT: No removal of vegetation due to threat of impacting endangered species and endangered species habitat.

## POHAKULOA TA [TRAIN]

RESTR: Foot march is restricted in certain areas.

IMPACT: Soldiers not allowed to walk on rocky outcrops due to high risk of harming endangered species.

## POHAKULOA TA [TRAIN]

RESTR: Access to area restricted with gates and area is off limits to all training activities.

IMPACT: Not available for training

## POHAKULOA TRAINING AREA [TRAIN]

RESTR: Area fenced and off limits to all training.

IMPACT: No training allowed.

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***HEDEOMA TODSENII***

## WHITE SANDS MISSILE RANGE [TEST]

RESTR: No disturbance of site where this plant occurs.

IMPACT: None

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***HEDYOTIS CORIACEA***

## POHAKULOA TA [TRAIN]

RESTR: No fires or use of any type pyrotechnic or incendiary munitions.

IMPACT: Soldiers not allowed to use pyrotechnics or incendiary munitions due to high flammability of vegetation.

## POHAKULOA TA [TRAIN]

RESTR: No digging in undisturbed areas.

IMPACT: No digging is allowed in non-disturbed areas due to high likelihood of endangered species in area and the slow rate of recovery of ground cover due to dry climate.

## POHAKULOA TA [TRAIN]

RESTR: No off-road vehicle traffic.

IMPACT: No off-road vehicle traffic due to threat of impacting endangered species and the slow rate of recovery and likelihood of soil erosion.

## POHAKULOA TA [TRAIN]

RESTR: No cutting or removing of vegetation in habitat.

IMPACT: No removal of vegetation due to threat of impacting endangered species and endangered species habitat.

## POHAKULOA TA [TRAIN]

RESTR: Foot march is restricted in certain areas.

IMPACT: Soldiers not allowed to walk on rocky outcrops due to high risk of harming endangered species.

*(HEDYOTIS CORIACEA Continued)*

## POHAKULOA TA [TRAIN]

RESTR: Access to area restricted with gates and area is off limits to all training activities.

IMPACT: Not available for training.

## POHAKULOA TA [TRAIN]

RESTR: Large proportion of habitat is off-limits to all training due to pending decision on biological assessment.

IMPACT: Not available for training.

*HELIANTHUS EGGERTII*

## TULLAHOMA TS [TRAIN]

RESTR: No vehicular movement within colony except on established roads.

IMPACT: Areas of colonies are off limits to all training.

## TULLAHOMA TS [TRAIN]

RESTR: No foot traffic within the colony area.

IMPACT: Area of colonies are off limits to all training.

*HYMENOXYYS TEXANA*

## ADDICKS RESERVOIR [TRAIN]

RESTR: This site is licensed from the USA Corps of Engineers (USACoE). USACoE is proponent for T&E management and handles all surveys and restrictions. Selected marked areas off limits to vehicles (areas delineated seasonally by USACoE).

IMPACT: Area varies. Seasonally delineated by USACoE Galveston district office.

*ISOETES LOUISIANENSIS*

## CAMP SHELBY [TRAIN]

RESTR: Species occurs in wetlands. These area are restricted for that reason. There is no additional restrictions to current training at this time.

IMPACT: None

*LEPTONYCTERIS CURASOAE (=SANBORNI) YERBABUENAE*

## FT HUACHUCA [TRAIN]

RESTR: Fire control.

IMPACT: Fire producing training cannot be conducted near dense agave stands, bat food source.

## FT HUACHUCA [TRAIN]

RESTR: Agave.

IMPACT: Night training is restricted when bat is present. Agave stands cannot be disturbed.

*LESPEDAZA LEPTOSTACHYA*

## BADGER AAP [TRAIN]

RESTR: All activity is prohibited in the 4 acre fenced site, area is now managed for prairie.

IMPACT: 4 acre area is off limits to training. No history of training use of the area exists.

---

**LOXIOIDES BAILLEUI**

POHAKULO A TA [TRAIN]

RESTR: Live fire is not permitted.

IMPACT: Units have to choose from other areas to fire from.

POHAKULO A TA [TRAIN]

RESTR: The total number of troops allowed to bivouac is limited to one battalion.

IMPACT: None

POHAKULO A TA [TRAIN]

RESTR: No refueling operations.

IMPACT: None

POHAKULO A TA [TRAIN]

RESTR: No food preparation.

IMPACT: None

POHAKULO A TA [TRAIN]

RESTR: No vehicle maintenance.

IMPACT: None

POHAKULO A TA [TRAIN]

RESTR: No more than 7 helicopters in the area at any given time.

IMPACT: None

POHAKULO A TA [TRAIN]

RESTR: Aircraft restricted to 9,000 ft. and above.

IMPACT: None

POHAKULO A TA [TRAIN]

RESTR: No open fires.

IMPACT: None

POHAKULO A TA [TRAIN]

RESTR: The total number of artillery pieces limited to one battalion.

IMPACT: None

---

**LYCAEIDES MELISSA SAMUELIS**

FT MCCOY [TRAIN]

RESTR: Vehicle refueling is not allowed within Karner blue butterfly habitat areas (i.e. lupine patches).

IMPACT: None

FT MCCOY [TRAIN]

RESTR: Tank ditching is not allowed within Karner blue butterfly habitat (i.e. lupine patches).

IMPACT: None

FT MCCOY [TRAIN]

RESTR: Smoke generation activities are not allowed within 100 meters of Karner blue butterfly habitat (i.e. lupine patches).

IMPACT: None

FT MCCOY [TRAIN]

RESTR: Vehicle decontamination is not allowed within Karner blue butterfly habitat areas (i.e. lupine patches).

IMPACT: None

**(LYCAEIDES MELISSA SAMUELIS Continued)**

## FT MCCOY [TRAIN]

RESTR: Water purification activities are not allowed within Karner blue butterfly habitat areas (i.e. lupine patches).

IMPACT: None

## FT MCCOY [TRAIN]

RESTR: Bivouac, vehicle traffic and digging are not allowed within 11 established/signed Karner blue butterfly core areas that total 92 acres.

IMPACT: None

---

**MARSHALLIA MOHRII**

## FT MCCLELLAN [TRAIN]

RESTR: Avoid actions on 10 ac. site (dud impact area).

IMPACT: None

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**NICROPHORUS AMERICANUS**

## FT CHAFFEE [TRAIN]

RESTR: No changes in habitat on a wide scale shall be done. Maximum of 4,000 acres of pine. No intensive mowing of large areas outside cantonment. No converting of native grass areas into cultivation or grazing. No impounding areas for ponds or greentree reservoirs.

IMPACT: None

## FT CHAFFEE [TRAIN]

RESTR: Surveys for the ABB shall continue annually for ten years at the already established transect sites. Annual reports with this information shall be provided to the U.S. Fish and Wildlife Service.

IMPACT: None

## FT CHAFFEE [TRAIN]

RESTR: Only approved pesticides and herbicides shall be used. Only approved pesticides and herbicides shall be used.

IMPACT: None

## FT CHAFFEE [TRAIN]

RESTR: No electric insect killers shall be used on the garrison.

IMPACT: None

## FT CHAFFEE [TRAIN]

RESTR: Any areas outside the cantonment area scheduled for construction involving over an acre of ground disturbance or the installation of permanent surfaces (gravel, asphalt, or concrete) shall be surveyed for ABB. All individuals collected shall be tagged and relocated the greatest distance possible to an unimproved area on the garrison.

IMPACT: Units may not construct hard surfaces during active period unless survey is completed. Otherwise no impact.

---

**ONCORHYNCHUS CLARKI STOMIAS**

## FT CARSON [TRAIN]

RESTR: Brood pond and 10 acres off limits to all training.

IMPACT: Very minor.



---

**PICOIDES (=DENDROCOPOS) BOREALIS****CAMP BEAUREGARD [TRAIN]**

RESTR: No vehicular movement within 200 feet of a cavity tree except on established roads.

IMPACT: None

**CAMP BLANDING TS [TRAIN]**

RESTR: A 100m radius core protection zone exists around RCW clusters in which vehicles are restricted.

IMPACT: None

**CAMP SHELBY [TRAIN]**

RESTR: No vehicle activity within 200 feet of a den tree.

IMPACT: There are no active colonies on Camp Shelby. Very little impact.

**FT BENNING [TRAIN]**

RESTR: Military vehicles are prohibited from occupying a position or traversing within 50 feet of a marked cavity tree, unless on an existing road, trail, or firebreak.

IMPACT: Due to location of trees limiting area, battalion cannot train offensively but can train defensively.

**FT BENNING [TRAIN]**

RESTR: Units may not occupy positions within 20 feet of a cavity tree for more than 2 hours nor dig anything more than hasty fighting positions.

IMPACT: Due to location of trees limiting area, battalion cannot train offensively but can train defensively.

**FT BENNING [TRAIN]**

RESTR: Only digging for hasty individual firing positions, hand digging only and filled after use are allowed within 200 feet of a cavity tree.

IMPACT: Due to location of trees limiting area, battalion cannot train offensively but can train defensively.

**FT BENNING [TRAIN]**

RESTR: No HC smoke of any type.

IMPACT: None

**FT BENNING [TRAIN]**

RESTR: No incendiary devices, to include trip flares allowed within 200 feet of a cavity tree.

IMPACT: None

**FT BENNING [TRAIN]**

RESTR: No CS/riot agents allowed within 200 feet of a cavity tree.

IMPACT: None

**FT BENNING [TRAIN]**

RESTR: No generator within 200 feet of a cavity tree.

IMPACT: None

**FT BENNING [TRAIN]**

RESTR: Only 50 cal blank and smaller firing within 200 feet of a cavity tree.

IMPACT: None

**FT BENNING [TRAIN]**

RESTR: Military personnel are prohibited from cutting down or intentionally destroying pine trees unless the activity is approved previously by the installation biologist and/or forester and is authorized for tree removal.

IMPACT: None

**(PICOIDES (=DENDROCOPOS) BOREALIS** Continued)**FT GORDON [TRAIN]**

RESTR: Foot traffic by units within 200 feet of a cavity tree is permitted outside the nesting season. (1 March through 31 July).

IMPACT: None

**FT GORDON [TRAIN]**

RESTR: Use of smoke, simulators, blank ammunition, pyrotechnics or open burning within 200 feet of a cluster site is prohibited.

IMPACT: None

**FT GORDON [TRAIN]**

RESTR: Vehicular movement within 200 feet of a cavity tree except on established roads is prohibited.

IMPACT: No impact battalion level and below; some restrictions could occur with brigade size maneuver across country.

**FT GORDON [TRAIN]**

RESTR: Occupation of positions to include bivouacking, command post, logistical, signal, assembly, etc., within 200 feet of a cluster site is prohibited.

IMPACT: No impact battalion level and below; some restrictions could occur with brigade size maneuver across country.

**FT JACKSON [TRAIN]**

RESTR: See Army Guidelines for this species.

IMPACT: Minor impacts due to units having limited ability to train in clusters.

**FT POLK [TRAIN]**

RESTR: No vehicular movement within 50 feet of a cavity tree except on established roads. No bivouac, tactical position, or artillery firing point can occur within 200 feet of cavity tree. No communication wire strung from cavity tree. No fortifications or holes of any kind can be dug within 200 feet of cavity tree.

IMPACT: Any training with the exception of dismounted activities, ie foot traffic in colony site, is subject to restrictions and limitations.

**FT STEWART & HUNTER ARMY AIRFIELD [TRAIN]**

RESTR: No bivouac sites or rest areas within 200 feet.

IMPACT: Current restrictions prohibit tactical training to doctrinal standards.

**FT STEWART & HUNTER ARMY AIRFIELD [TRAIN]**

RESTR: No digging without permission within 200 feet.

IMPACT: Current restrictions prohibit tactical training to doctrinal standards.

**FT STEWART & HUNTER ARMY AIRFIELD [TRAIN]**

RESTR: No mounted or dismounted maneuver training within 200 feet.

IMPACT: Current restrictions prohibit tactical training to doctrinal standards.

**FT STEWART & HUNTER ARMY AIRFIELD [TRAIN]**

RESTR: No off-road tactical vehicle operation within 200 feet.

IMPACT: Current restrictions prohibit tactical training to doctrinal standards.

**FT STEWART & HUNTER ARMY AIRFIELD [TRAIN]**

RESTR: No resupply operations within 200 feet.

IMPACT: Current restrictions prohibit tactical training to doctrinal standards.

**FT STEWART & HUNTER ARMY AIRFIELD [TRAIN]**

RESTR: No use of simulators or pyrotechnics within 200 feet.

IMPACT: Current restrictions prohibit tactical training to doctrinal standards.

**(*PICOIDES (=DENDROCOPOS) BOREALIS* Continued)****FT STEWART & HUNTER ARMY AIRFIELD [TRAIN]**

RESTR: No vehicle maintenance within 200 feet.

IMPACT: Current restrictions prohibit tactical training to doctrinal standards.

**FT STEWART & HUNTER ARMY AIRFIELD [TRAIN]**

RESTR: No damage to pine trees within 200 feet.

IMPACT: Forced selection of unnatural camouflage material may result in negative training.

**FT STEWART & HUNTER ARMY AIRFIELD [TRAIN]**

RESTR: No felling of trees within 800 meters without permission.

IMPACT: Requirement for additional coordination creates an administrative burden on commanders.

**LEESBURG TS [TRAIN]**

RESTR: The following activities are prohibited within RCW colony sites: Bivouacking, discharging of weapons, smoke grenades, or any incendiary device; warming, cooking, or other fires; construction of any type; attachment of training devices, hunting stands, or any damage to the trees in the colony area; placement of generators or positioning of guns; wheeled or tracked vehicle activity (except on designated roads or trails).

IMPACT: Avoid colony areas; do not perform prohibited activities in colony areas.

**SUNNY POINT [TRAIN]**

RESTR: Civilian security force must qualify with fire arms, but are limited to certain months and days, in which to fire. Any special training for new hires requires consultation with the FWS.

IMPACT: None

***PORTULACA SCLEROCARPA*****POHAKULOA TA [TRAIN]**

RESTR: No fires or use of any type pyrotechnic or incendiary munitions.

IMPACT: Soldiers not allowed to use pyrotechnics or incendiary munitions due to high flammability of vegetation.

**POHAKULOA TA [TRAIN]**

RESTR: No digging in undisturbed areas.

IMPACT: No digging is allowed in non-disturbed areas due to high likelihood of endangered species in area and the slow rate of recovery of ground cover due to dry climate.

**POHAKULOA TA [TRAIN]**

RESTR: No off-road vehicle traffic.

IMPACT: No off-road vehicle traffic due to threat of impacting endangered species and the slow rate of recovery and likelihood of soil erosion.

**POHAKULOA TA [TRAIN]**

RESTR: No cutting or removing of vegetation in habitat.

IMPACT: No removal of vegetation due to threat of impacting endangered species and endangered species habitat.

**POHAKULOA TA [TRAIN]**

RESTR: Foot march is restricted in certain areas.

IMPACT: Soldiers not allowed to walk on rocky outcrops due to high risk of harming endangered species.

**POHAKULOA TA [TRAIN]**

RESTR: Access to area restricted with gates and area is off limits to all training activities.

IMPACT: Not available for training.

**(PORTULACA SCLEROCARPA Continued)****POHAKULOA TA [TRAIN]**

RESTR: Large proportion of habitat is off-limits to all training due to pending decision on biological assessment.

IMPACT: Not available for training.

**PTILIMNIUM NODOSUM****LIL AARON STRAUS WILDERNESS AREA [TRAIN]**

RESTR: No movement through the 100' buffer zone on both sides of Sideling Hill Creek.

IMPACT: With decreased training funds and BRAC, LASWA could be used for more training, but the limits on maneuver area cut the training area in half, making it much less attractive for training opportunities.

**SESBANIA TOMENTOSA VAR. ARBOREA****KANAIO LTA [TRAIN]**

RESTR: Training on Pu'u Pa (cinder cone where plant is located) is prohibited.

IMPACT: Infantry units cannot perform any type of training atop Puu Pimoe cinder cone where end. plant is located. Potential impacts include human trampling, cutting, accidental introduction of alien species and fire hazard.

**KANAIO LTA [TRAIN]**

RESTR: No smoking allowed.

IMPACT: Infantry units cannot smoke during scheduled training, due to fire hazard of dry area.

**KANAIO LTA [TRAIN]**

RESTR: Use of fire or signal flares is prohibited.

IMPACT: Infantry units cannot use flares or other pyrotechnics due to fire hazard of dry area.

**KANAIO LTA [TRAIN]**

RESTR: Inspection of gear/equipment/clothing for alien species seeds is recommended prior to scheduled training.

IMPACT: None

**SILENE HAWAIIENSIS****POHAKULOA TA [TRAIN]**

RESTR: Environmental Assessment pending, in the mean time 2 firing lanes on a machine gun range remain unopened.

IMPACT: Not as many soldiers can train at the same time taking more time to qualify the units.

**POHAKULOA TA [TRAIN]**

RESTR: No fires or use of any type pyrotechnic or incendiary munitions.

IMPACT: Soldiers not allowed to use pyrotechnics or incendiary munitions due to high flammability of vegetation.

**POHAKULOA TA [TRAIN]**

RESTR: No digging in undisturbed areas.

IMPACT: No digging is allowed in non-disturbed areas due to high likelihood of endangered species in area and the slow rate of recovery of ground cover due to dry climate.

**POHAKULOA TA [TRAIN]**

RESTR: No off-road vehicle traffic.

IMPACT: No off-road vehicle traffic due to threat of impacting endangered species and the slow rate of recovery and likelihood of soil erosion.

*(SILENE HAWAIIENSIS* Continued)

## POHAKULOA TA [TRAIN]

RESTR: No cutting or removing of vegetation in habitat.

IMPACT: No removal of vegetation due to threat of impacting endangered species and endangered species habitat.

## POHAKULOA TA [TRAIN]

RESTR: Foot march is restricted in certain areas.

IMPACT: Soldiers not allowed to walk on rocky outcrops due to high risk of harming endangered species.

## POHAKULOA TA [TRAIN]

RESTR: Access to area restricted with gates and area is off limits to all training activities.

IMPACT: Not available for training.

## POHAKULOA TA [TRAIN]

RESTR: Large proportion of habitat is off-limits to all training due to pending decision on biological assessment.

IMPACT: Not available for training.

## POHAKULOA TA [TRAIN]

RESTR: Area off limits to all training.

IMPACT: No training allowed.

---

*SILENE LANCEOLATA*

## POHAKULOA TA [TRAIN]

RESTR: No fires or use of any type pyrotechnic or incendiary munitions.

IMPACT: Soldiers not allowed to use pyrotechnics or incendiary munitions due to high flammability of vegetation.

## POHAKULOA TA [TRAIN]

RESTR: No digging in undisturbed areas.

IMPACT: No digging is allowed in non-disturbed areas due to high likelihood of endangered species in area and the slow rate of recovery of ground cover due to dry climate.

## POHAKULOA TA [TRAIN]

RESTR: No off-road vehicle traffic.

IMPACT: No off-road vehicle traffic due to threat of impacting endangered species and the slow rate of recovery and likelihood of soil erosion.

## POHAKULOA TA [TRAIN]

RESTR: No cutting or removing of vegetation in habitat.

IMPACT: No removal of vegetation due to threat of impacting endangered species and endangered species habitat.

## POHAKULOA TA [TRAIN]

RESTR: Foot march is restricted in certain areas.

IMPACT: Soldiers not allowed to walk on rocky outcrops due to high risk of harming endangered species.

## POHAKULOA TA [TRAIN]

RESTR: Access to area restricted with gates and area is off limits to all training activities.

IMPACT: Not available for training.

**(SILENE LANCEOLATA Continued)****POHAKULO A TA [TRAIN]**

RESTR: Large proportion of habitat is off-limits to all training due to pending decision on biological assessment.

IMPACT: Not available for training.

**POHAKULO A TA [TRAIN]**

RESTR: Area off limits to all training.

IMPACT: No training allowed.

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**SOLIDAGO HOUGHTONII****CAMP GRAYLING [TRAIN]**

RESTR: No military travel within occupied habitat.

IMPACT: Total of approximately 10 acres, most in wetlands that are restricted any way.

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**SPERMOLEPIS HAWAIIENSIS****POHAKULO A TA [TRAIN]**

RESTR: Large proportion of habitat is off-limits to all training due to pending decision on biological assessment.

IMPACT: Not available for training.

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**SPEYERIA ZERENE HIPPOLYTA****CAMP RILEA [TRAIN]**

RESTR: No organized training of any kind is allowed within designated butterfly habitat areas.

IMPACT: With these habitat areas unavailable for training, other training areas must be used more intensively and frequently. High demand for training areas causes temporal delays for units in meeting their training requirements.

---

**STENOGYNE ANGUSTIFOLIA****POHAKULO A TA [TRAIN]**

RESTR: No fires or use of any type pyrotechnic or incendiary munitions.

IMPACT: Soldiers not allowed to use pyrotechnics or incendiary munitions due to high flammability of vegetation.

**POHAKULO A TA [TRAIN]**

RESTR: No digging in undisturbed areas.

IMPACT: No digging is allowed in non-disturbed areas due to high likelihood of endangered species in area and the slow rate of recovery of ground cover due to dry climate.

**POHAKULO A TA [TRAIN]**

RESTR: 3 fixed firing positions off limits to training.

IMPACT: Three less firing points to choose from for scheduling.

**POHAKULO A TA [TRAIN]**

RESTR: No off-road vehicle traffic.

IMPACT: No off-road vehicle traffic due to threat of impacting endangered species and the slow rate of recovery and likelihood of soil erosion.

**(STENOGYNE ANGUSTIFOLIA Continued)**

## POHAKULOA TA [TRAIN]

RESTR: No cutting or removing of vegetation in habitat.

IMPACT: No removal of vegetation due to threat of impacting endangered species and endangered species habitat.

## POHAKULOA TA [TRAIN]

RESTR: Foot march is restricted in certain areas.

IMPACT: Soldiers not allowed to walk on rocky outcrops due to high risk of harming endangered species.

## POHAKULOA TA [TRAIN]

RESTR: Access to area restricted with gates and area is off limits to all training activities.

IMPACT: Not available for training.

## POHAKULOA TA [TRAIN]

RESTR: Large proportion of habitat is off-limits to all training due to pending decision on biological assessment.

IMPACT: Not available for training.

**STRIX OCCIDENTALIS LUCIDA**

## CAMP NAVAJO MILITARY RESERVATION [TRAIN]

RESTR: Units may not occupy positions within 600 acres of a protected activity center.

IMPACT: No impact - units can train to standard at other locations on the installations-most units using this area are NG conduct CTT at the individual and squad level - CS Eng units conduct road construction activities. Truck units conduct convoy activities.

## FT HUACHUCA [TRAIN]

RESTR: Nesting and foraging.

IMPACT: These areas are off-limits.

**TETRAMOLOPIUM ARENARIUM**

## POHAKULOA TA [TRAIN]

RESTR: No fires or use of any type pyrotechnic or incendiary munitions.

IMPACT: Soldiers not allowed to use pyrotechnics or incendiary munitions due to high flammability of vegetation.

## POHAKULOA TA [TRAIN]

RESTR: No digging in undisturbed areas.

IMPACT: No digging is allowed in non-disturbed areas due to high likelihood of endangered species in area and the slow rate of recovery of ground cover due to dry climate.

## POHAKULOA TA [TRAIN]

RESTR: No off-road vehicle traffic.

IMPACT: No off-road vehicle traffic due to threat of impacting endangered species and the slow rate of recovery and likelihood of soil erosion.

## POHAKULOA TA [TRAIN]

RESTR: No cutting or removing of vegetation in habitat.

IMPACT: No removal of vegetation due to threat of impacting endangered species and endangered species habitat.

**(TETRAMOLOPIUM ARENARIUM Continued)**

## POHAKULOA TA [TRAIN]

RESTR: Foot march is restricted in certain areas.

IMPACT: Soldiers not allowed to walk on rocky outcrops due to high risk of harming endangered species.

## POHAKULOA TA [TRAIN]

RESTR: Access to area restricted with gates and area is off limits to all training activities.

IMPACT: Not available for training.

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**TRILLIUM RELIQUUM**

## FT BENNING [TRAIN]

RESTR: No digging or vehicles allowed within boundary of sensitive area sign.

IMPACT: None

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**VIREO ATRICAPILLUS**

## ADDICKS RESERVOIR [TRAIN]

RESTR: Approx 80 acres off limit during breeding season (April - August).

IMPACT: Approx 80 acres off limit during breeding season (April - August).

## FT HOOD [TRAIN]

RESTR: Maneuver - No digging of battle/fighting/firing positions, use ONLY existing positions and improve above ground.

IMPACT: AR, INF, FA, CS, CSS, S&S, LOG, C2 can't train to standards.

## FT HOOD [TRAIN]

RESTR: Ranges - No clearing of habitats that obscure targets/ target lines. Immediate fire equip/pers requirements.

IMPACT: AR, INF, FA, CS can't train to standards.

## FT HOOD [TRAIN]

RESTR: No off trail driving. Park in open areas, only.

IMPACT: AR, INF, FA, ENG, C2, CS, CSS, S&S, LOG can't train to standards. No immediate action drills can be exercised.

## FT HOOD [TRAIN]

RESTR: No brush or tree cutting, camouflage, or road blockades.

IMPACT: AR, INF, FA, ENG, C2, CS, CSS, S&S, LOG can't train to standards. No immediate action drills can be exercised.

## FT HOOD [TRAIN]

RESTR: Two (2) hour limit for unit (regardless of size or event) to be in the habitat. Units can't travel through habitats more than two hrs per 24 hr day.

IMPACT: AR, INF, FA, ENG, C2, CS, CSS, S&S, LOG can't train to standards. No immediate action drills can be exercised.

## FT HOOD [TRAIN]

RESTR: Units can't conduct any training in habitats. No use of smoke, chemical grenades/devices or conduct of Artillery live fire in or within 100 meters of habitats.

IMPACT: AR, INF, FA, ENG, C2, CS, CSS, S&S, LOG can't train to standards. No immediate action drills can be exercised.

## FT SAM HOUSTON [TRAIN]

RESTR: High intensity training in habitat areas during the breeding season.

IMPACT: No high intensity training during the breeding season.



**(VIREO ATRICAPILLUS** Continued)

## FT SILL [TRAIN]

RESTR: No vehicular training within the nesting area.

IMPACT: Very little impact to training since the nesting area is in steep rocky terrain that is not used by vehicles.

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**VULPES MACROTIS MUTICA**

## CAMP ROBERTS [TEST]

RESTR: Preactivity surveys must be conducted before any earth-moving activity.

IMPACT: Can experience short delays until a survey is completed. Can still test vehicles.

## CAMP ROBERTS [TEST]

RESTR: All vehicle traffic is subject to a 25 mile per hour speed limit, except where otherwise posted.

IMPACT: Maneuvers/testing at high speeds cannot be conducted.

## CAMP ROBERTS [TEST]

RESTR: All vehicle traffic is restricted to existing roads and trails except during tactical maneuvers or on construction or bivouac sites. Unauthorized off-road vehicle traffic is prohibited.

IMPACT: None

## CAMP ROBERTS [TEST]

RESTR: All excavations deeper than 3 ft. shall be covered or filled at the end of each day, or shall include earthen or wooden escape ramps which shall remain in place until the excavation is permanently filled.

IMPACT: None

## CAMP ROBERTS [TEST]

RESTR: All excavations will be thoroughly inspected for animals prior to back filling to avoid accidental burial.

IMPACT: None

## CAMP ROBERTS [TEST]

RESTR: Any pipe, culvert, or similar material with an inside diameter of 4 in. or greater will be thoroughly inspected for animals prior to sealing, installation, burying or moving. If animals are found inside the construction materials, the material should not be used until the animal vacates the area. Pipelines temporarily left open in place will be covered or blocked until work is completed.

IMPACT: None

## CAMP ROBERTS [TEST]

RESTR: Flagged or excluded den sites must be avoided.

IMPACT: Testing activities may have to be relocated to avoid impacting Kit Foxes. Can still conduct testing.

## CAMP ROBERTS [TEST]

RESTR: Do not fire a weapon at or near a kit fox.

IMPACT: None

## CAMP ROBERTS [TEST]

RESTR: Excavations which contain any amount, including trace quantities of hazardous material must be filled or covered at the end of each working day such that holes are no greater than 2x2 in. The placement of escape ramps in these structures cannot be used in lieu of covering.

IMPACT: None

## CAMP ROBERTS [TRAIN]

RESTR: All vehicle traffic is subject to a 25 mile per hour speed limit, except where otherwise posted.

IMPACT: Maneuvers/testing at high speeds cannot be conducted.

*(VULPES MACROTIS MUTICA Continued)*

CAMP ROBERTS [TRAIN]

RESTR: All excavations will be thoroughly inspected for animals prior to back filling to avoid accidental burial.

IMPACT: None

CAMP ROBERTS [TRAIN]

RESTR: Any pipe, culvert, or similar material with an inside diameter of 4 in. or greater will be thoroughly inspected for animals prior to sealing, installation, burying or moving. If animals are found inside the construction materials, the material should not be used until the animal vacates the area. Pipelines temporarily left open in place will be covered or blocked until work is completed.

IMPACT: None

CAMP ROBERTS [TRAIN]

RESTR: All excavations deeper than 3 ft. shall be covered or filled at the end of each day, or shall include earthen or wooden escape ramps which shall remain in place until the excavation is permanently filled.

IMPACT: None

CAMP ROBERTS [TRAIN]

RESTR: Flagged or excluded den sites must be avoided.

IMPACT: Unit may have to move activity to avoid impacts to Kit Fox. Usually can still train to standard.

CAMP ROBERTS [TRAIN]

RESTR: Do not fire a weapon at or near a kit fox.

IMPACT: Units must check range for presence of foxes before firing. Can still train to standard.

CAMP ROBERTS [TRAIN]

RESTR: All vehicle traffic is restricted to existing roads and trails except during tactical maneuvers or on construction or bivouac sites. Unauthorized off-road vehicle traffic is prohibited.

IMPACT: None

CAMP ROBERTS [TRAIN]

RESTR: Excavations which contain any amount, including trace quantities of hazardous material must be filled or covered at the end of each working day such that holes are no greater than 2x2 in. The placement of escape ramps in these structures cannot be used in lieu of covering.

IMPACT: None

CAMP ROBERTS [TRAIN]

RESTR: Preactivity surveys must be conducted before any earth-moving activity.

IMPACT: Units can experience short delays before training commences until survey is completed. Can still train to standard.

FT HUNTER LIGGETT [TEST]

RESTR: Mechanized excavation, live-fire, ground disturbing high explosives/demolitions, and use of rodenticides are prohibited within the kit fox mitigation area.

IMPACT: Units are unable to use the area for training.

FT HUNTER LIGGETT [TEST]

RESTR: Within training area 22 from Jan.1- Apr. 30, if a fox is present on the range, only non-live-fire activities will be conducted between 0400-0700 and between 1800-2100.

IMPACT: Can't train to doctrinal standards for tank tables during the winter.

**(VULPES MACROTIS MUTICA Continued)****FT HUNTER LIGGETT [TEST]**

RESTR: Within training area 22 from Jan.1- Apr. 30, only light intensity training is allowed; no more than 5 days without a 1-day break.

IMPACT: Can't train to doctrinal standards for tank tables during the winter.

**FT HUNTER LIGGETT [TEST]**

RESTR: No live-fire, bivouac, mechanized excavation, or ground disturbing high explosives/demolitions within 125 ft. of an active kit fox den.

IMPACT: May lose targets/fps, may not be able to train to standard.

**FT HUNTER LIGGETT [TEST]**

RESTR: Mechanized excavation, live-fire, ground disturbing high explosives/demolitions, and use of rodenticides are prohibited within the kit fox mitigation area.

IMPACT: None

**FT HUNTER LIGGETT [TEST]**

RESTR: Within training area 22, live-fire is limited to the MPRC and B-9 ranges.

IMPACT: Live-fire exercises must be moved to another portion of the installation.

**FT HUNTER LIGGETT [TRAIN]**

RESTR: Mechanized excavation, live-fire, ground disturbing high explosives/demolitions, and use of rodenticides are prohibited within the kit fox mitigation area.

IMPACT: Units are unable to use the area for training.

**FT HUNTER LIGGETT [TRAIN]**

RESTR: Within training area 22 from Jan.1- Apr. 30, if a fox is present on the range, only non-live-fire activities will be conducted between 0400-0700 and between 1800-2100.

IMPACT: Can't train to doctrinal standards for tank tables during the winter.

**FT HUNTER LIGGETT [TRAIN]**

RESTR: Within training area 22 from Jan.1- Apr. 30, only light intensity training is allowed; no more than 5 days without a 1-day break.

IMPACT: Can't train to doctrinal standards for tank tables during the winter.

**FT HUNTER LIGGETT [TRAIN]**

RESTR: No live-fire, bivouac, mechanized excavation, or ground disturbing high explosives/demolitions within 125 ft. of an active kit fox den.

IMPACT: May lose targets/fps, may not be able to train to standard.

**FT HUNTER LIGGETT [TRAIN]**

RESTR: Mechanized excavation, live-fire, ground disturbing high explosives/demolitions, and use of rodenticides are prohibited within the kit fox mitigation area.

IMPACT: None

**FT HUNTER LIGGETT [TRAIN]**

RESTR: Within training area 22, live-fire is limited to the MPRC and B-9 ranges.

IMPACT: Live-fire exercises must be moved to another portion of the installation.

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***XYRIS TENNESSEENSIS***

FT MCCLELLAN [TRAIN]

RESTR: Avoid actions on one acre sites.

IMPACT: None

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***ZANTHOXYLUM HAWAIIENSE***

POHAKULOA TA [TRAIN]

RESTR: Large proportion of habitat is off-limits to all training due to pending decision on biological assessment.

IMPACT: Not available for training.

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## Appendix F-1: Listing of T&E Species for Which Expenditures were Allocated

Scientific Name	Common Name	Fed stat	Cat	Occur	Installation	MACOM	Total Cost
<i>Acipenser brevirostrum</i>	Shortnose Sturgeon	E	Fish	Both	Ft. Stewart & Hunter Army Airfield	FORSCOM	\$2,260
<i>Alligator mississippiensis</i>	American Alligator	T(S/A)	Reptile	Both	Ft. Benning	TRADOC	\$800
<i>Alsinidendron obovatum</i>	No Common Name	E	Plant	Both	Makua Military Reservation	USARPAC	\$500
<i>Amblyopsis rosae</i>	Ozark Cavefish	T	Fish	Cont.	Camp Crowder	NGB	\$10,000
<i>Branchinecta lynchi</i>	Vernal Pool Fairy Shrimp	T	Crustacean	Onsite Both	Ft. Hunter Liggett Camp Roberts	USARC NGB	\$7,500 \$50,000
<i>Bufo microscaphus californicus</i>	Arroyo Southwestern Toad	E	Amphibian	Onsite	Ft. Hunter Liggett	USARC	\$2,500
<i>Canis lupus</i>	Gray Wolf	E T	Mammal	Cont. Both	Ft. McCoy Camp Ripley	USARC NGB	\$775 \$20,000
<i>Chamaesyce deltoidea ssp. deltoidea</i>	Deltoid Spurge	E	Plant	Both	Martinez Reserve Center	USARC	\$42,000
<i>Charadrius alexandrinus nivosus</i>	Western Snowy Plover	T	Bird	Both	Pom Annex	TRADOC	\$10,000
<i>Charadrius melodus</i>	Piping Plover	T	Bird	Both	Ft. Riley	FORSCOM	\$3,000
<i>Chorizanthe pungens var. pungens</i>	Monterey Spineflower	T	Plant	Both	Pom Annex	TRADOC	\$16,001
<i>Cirsium fontinale var. obispoense</i>	Chorro Creek Bog Thistle	E	Plant	Both	Camp San Luis Obispo	NGB	\$15,000
<i>Coryphantha sneedii var. sneedii</i>	Sneed Pincushion Cactus	E	Plant	Both	Ft. Bliss	TRADOC	\$40,000
<i>Ctenitis squamigera</i>	Pauoa	E	Plant	Cont. Cont.	Makua Military Reservation Schofield Barracks Military Reservation	USARPAC USARPAC	\$500 \$500
<i>Cyanea grimesiana ssp. obatae</i>	Haha Oha	E	Plant	Cont.	Schofield Barracks Military Reservation	USARPAC	\$500
<i>Cyanea superba ssp. superba</i>	Oha	E	Plant	Onsite Onsite	Makua Military Reservation Schofield Barracks Military Reservation	USARPAC USARPAC	\$500 \$500
<i>Cyprinella caerulea</i>	Blue Shiner	T	Fish	Both	Ft. McClellan	TRADOC	\$700
<i>Dendroica chrysoparia</i>	Golden-cheeked Warbler	E	Bird	Both Both	Ft. Sam Houston Ft. Hood	MEDCOM FORSCOM	\$35,000 \$464,000
<i>Drymarchon corais couperi</i>	Eastern Indigo Snake	T	Reptile	Both	Ft. Stewart & Hunter Army Airfield	FORSCOM	\$995



Scientific Name	Common Name	Fed stat	Cat	Occur	Installation	MACOM	Total Cost
				Both	Ft. Belvoir	MDW	\$14,000
				Both	Ft. Hunter Liggett	USARC	\$17,500
				Both	Yakima TC	FORSCOM	\$20,000
				Both	Stead TS	NGB	\$22,000
				Both	Ft. Stewart & Hunter Army Airfield	FORSCOM	\$77,864
				Both	Aberdeen Proving Ground	AMC	\$85,000
				Both	Ft. Bliss	TRADOC	\$85,000
<i>Haplostachys haplostachya</i>	No Common Name	E	Plant	Both	Pohakuloa TA	USARPAC	\$12,500
<i>Hedeoma todsenii</i>	Tòdsen's Pennyroyal	E	Plant	Both	White Sands Missile Range	AMC	\$1,000
<i>Howellia aquatilis</i>	Water Howellia	T	Plant	Both	Ft. Lewis	FORSCOM	\$50,000
<i>Isoetes louisianensis</i>	Lousiana Quillwort	E	Plant	Both	Camp Shelby	NGB	\$20,000
<i>Lampsilis higginsii</i>	Higgins' Eye Pearlymussel	E	Clam	Both	Savanna Army Depot Activity	AMC	\$150
<i>Leptonycteris curasoae yerbabuena</i>	Lesser Long-nosed Bat	E	Mammal	Both	Ft. Huachuca	TRADOC	\$44,500
<i>Loxioides bailleui</i>	Palila	E	Bird	Both	Pohakuloa TA	USARPAC	\$57,000
<i>Lycaeides melissa samuelis</i>	Karner Blue Butterfly	E	Insect	Both	Ft. McCoy	USARC	\$87,668
<i>Lycopodium nutans</i>	Wawae' Iole	E	Plant	Cont.	Schofield Barracks Military Reservation	USARPAC	\$500
				Onsite	Kawailoa TA	USARPAC	\$900
<i>Lysimachia asperulaefolia</i>	Rough-leaved Loosestrife	E	Plant	Both	Sunny Point	MTMC	\$4,000
				Onsite	Ft. Jackson	TRADOC	\$17,000
				Both	Ft. Bragg	FORSCOM	\$84,756
<i>Marshallia mohrii</i>	Mohr's Barbara Buttons	T	Plant	Onsite	Ft. McClellan	TRADOC	\$4,000
<i>Melicope lydgatei</i>	Alani	E	Plant	Onsite	Kawailoa TA	USARPAC	\$2,000
<i>Mycteria americana</i>	Wood Stork	E	Bird	Both	Ft. Benning	TRADOC	\$325
<i>Myotis grisescens</i>	Gray Bat	E	Mammal	Cont.	Indiana AAP	AMC	\$15,000
				Onsite	Ft. Knox	TRADOC	\$75,000
				Both	Ft. McClellan	TRADOC	\$88,300
<i>Myotis sodalis</i>	Indiana Bat	E	Mammal	Cont.	Savanna Army Depot Activity	AMC	\$150
				Cont.	Macon TS	NGB	\$160
				Cont.	Indiana AAP	AMC	\$15,000
				Both	Ft. Knox	TRADOC	\$25,000
<i>Neonympha mitchellii francisci</i>	Saint Francis' Satyr Butterfly	E	Insect	Onsite	Ft. Bragg	FORSCOM	\$39,891
<i>Neraudia angulata var. angulata</i>	Ma'aloa	E	Plant	Onsite	Makua Military Reservation	USARPAC	\$500
				Onsite	Schofield Barracks Military Reservation	USARPAC	\$500
<i>Neraudia angulata var. dentata</i>	Ma'aloa	E	Plant	Onsite	Makua Military Reservation	USARPAC	\$500
				Onsite	Schofield Barracks	USARPAC	\$500

Scientific Name	Common Name	Fed stat	Cat	Occur	Installation	MACOM	Total Cost
<i>Nicrophorus americanus</i>	American Burying Beetle	E	Insect	Both	Camp Gruber	NGB	\$35,000
				Both	Ft. Chaffee	TRADOC	\$50,000
<i>Oncorhynchus clarki stomias</i>	Greenback Cutthroat Trout	T	Fish	Onsite	Ft. Carson	FORSCOM	\$7,000
<i>Palaemonias alabamiae</i>	Alabama Cave Shrimp	E	Crustacean	Both	Redstone Arsenal	AMC	\$39,990
<i>Phylostegia parviflora</i> <i>var. parviflora</i>	No Common Name	E	Plant	Onsite	Kawailoa TA	USARPAC	\$900
<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Cont.	Camp Shelby	NGB	\$1,000
				Cont.	Camp Beauregard	NGB	\$3,000
				Cont.	Ft. McClellan	TRADOC	\$5,000
				Onsite	Camp Blanding TS	NGB	\$30,000
				Onsite	Ft. Gordon	TRADOC	\$40,000
				Onsite	Ft. Jackson	TRADOC	\$265,680
				Both	Ft. Polk	FORSCOM	\$453,000
				Onsite	Ft. Stewart & Hunter Army Airfield	FORSCOM	\$836,890
				Both	Ft. Bragg	FORSCOM	\$1,184,963
				Onsite	Ft. Benning	TRADOC	\$2,860,000
<i>Pteris lidgatei</i>	No Common Name	E	Plant	Onsite	Kawailoa TA	USARPAC	\$500
				Onsite	Schofield Barracks Military Reservation	USARPAC	\$500
<i>Ptilimnium nodosum</i>	Harperella	E	Plant	Both	Lil Aaron Straus Wilderness Area	NGB	\$10,000
<i>Rhus michauxii</i>	Michaux's Sumac	E	Plant	Onsite	Ft. Pickett	USARC	\$13,000
				Both	Ft. Bragg	FORSCOM	\$84,756
<i>Sanicula maritima</i>	No Common Name	E	Plant	Both	Makua Military Reservation	USARPAC	\$900
<i>Schwalbea americana</i>	American Chaffseed	E	Plant	Both	Ft. Bragg	FORSCOM	\$84,756
<i>Silene lanceolata</i>	Lanceleaf Catchfly	E	Plant	Onsite	Pohakuloa TA	USARPAC	\$12,500
<i>Solanum incompletum</i>	Spiny Popolo	E	Plant	Onsite	Pohakuloa TA	USARPAC	\$200
<i>Solanum sandwicense</i>	Popolo `Aiakeakua	E	Plant	Cont.	Schofield Barracks Military Reservation	USARPAC	\$500
<i>Solidago houghtonii</i>	Houghton's Goldenrod	T	Plant	Both	Camp Grayling	NGB	\$600
<i>Spermolepis hawaiiensis</i>	Hawaiian Parsley	E	Plant	Both	Makua Military Reservation	USARPAC	\$1
<i>Speyeria zerene hippolyta</i>	Oregon Silverspot Butterfly	T	Insect	Onsite	Camp Rilea	NGB	\$10,000
<i>Spiranthes diluvialis</i>	Ute Ladies'-tresses	T	Plant	Onsite	Ft. Carson	FORSCOM	\$200
				Cont.	Dugway Proving Ground	AMC	\$5,000
<i>Stenogyne kanehoana</i>	No Common Name	E	Plant	Cont.	Schofield Barracks Military Reservation	USARPAC	\$500
<i>Sterna antillarum</i>	Least Tern	E	Bird	Both	Ft. Riley	FORSCOM	\$3,000
<i>Strix occidentalis lucida</i>	Mexican Spotted Owl	T	Bird	Both	Camp Navajo Military Reservation	NGB	\$2,000
				Both	Ft. Carson	FORSCOM	\$44,000
				Both	Ft. Huachuca	TRADOC	\$115,000
<i>Tetramolopium filiforme</i> <i>var. polyphyllum</i>	No Common Name	E	Plant	Both	Makua Military Reservation	USARPAC	\$400



Scientific Name	Common Name	Fed stat	Cat	Occur	Installation	MACOM	Total Cost
<i>Trillium reliquum</i>	Relict Trillium	E	Plant	Onsite	Ft. Benning	TRADOC	\$4,750
<i>Viola chamissoniana</i> <i>ssp chamissoniana</i>	Pamakani	E	Plant	Onsite	Makua Military Reservation	USARPAC	\$500
				Both	Schofield Barracks Military Reservation	USARPAC	\$500
<i>Vireo atricapillus</i>	Black-capped Vireo	E	Bird	Both	Ft. Sam Houston	MEDCOM	\$35,000
				Both	Camp Barkeley	NGB	\$40,000
				Both	Ft. Sill	TRADOC	\$40,000
				Both	Ft. Hood	FORSCOM	\$526,000
<i>Vireo bellii pusillus</i>	Least Bell's Vireo	E	Bird	Onsite	Camp San Luis Obispo	NGB	\$120
				Both	Ft. Hunter Liggett	USARC	\$2,500
<i>Vulpes macrotis mutica</i>	San Joaquin Kit Fox	E	Mammal	Both	Ft. Hunter Liggett	USARC	\$82,500
				Both	Camp Roberts	NGB	\$124,000
<i>Xyris tennesseensis</i>	Tennessee Yellow-eyed Grass	E	Plant	Both	Ft. McClellan	TRADOC	\$5,500

## Appendix F-2: Listing of Installations with Expenditures Allocated for Each Species

Installation	MACOM	Scientific Name	Common Name	Fed stat	Cat	Occur	Total Cost
Aberdeen Proving Ground	AMC	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	\$85,000
Adelphi Army Research Labs	AMC	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Onsite	\$10,000
Camp Barkeley	NGB	<i>Vireo atricapillus</i>	Black-capped Vireo	E	Bird	Both	\$40,000
Camp Beauregard	NGB	<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Cont.	\$3,000
Camp Blanding TS	NGB	<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Onsite	\$30,000
Camp Crowder	NGB	<i>Amblyopsis rosae</i>	Ozark Cavefish	T	Fish	Cont.	\$10,000
Camp Grayling	NGB	<i>Solidago houghtonii</i>	Houghton's Goldenrod	T	Plant	Both	\$600
Camp Gruber	NGB	<i>Nicrophorus americanus</i>	American Burying Beetle	E	Insect	Both	\$35,000
Camp Murray	NGB	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	\$1,000
Camp Navajo Military Reservation	NGB	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	\$1,000
		<i>Strix occidentalis lucida</i>	Mexican Spotted Owl	T	Bird	Both	\$2,000
Camp Rilea	NGB	<i>Speyeria zerene hippolyta</i>	Oregon Silverspot Butterfly	T	Insect	Onsite	\$10,000
Camp Ripley	NGB	<i>Canis lupus</i>	Gray Wolf	T	Mammal	Both	\$20,000
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Onsite	\$1,000
Camp Roberts	NGB	<i>Branchinecta lynchi</i>	Vernal Pool Fairy Shrimp	T	Crustacean	Both	\$50,000
		<i>Vulpes macrotis mutica</i>	San Joaquin Kit Fox	E	Mammal	Both	\$124,000
Camp San Luis Obispo	NGB	<i>Cirsium fontinale var. obispoense</i>	Chorro Creek Bog Thistle	E	Plant	Both	\$15,000
		<i>Vireo bellii pusillus</i>	Least Bell's Vireo	E	Bird	Onsite	\$120
Camp Shelby	NGB	<i>Gopherus polyphemus</i>	Gopher Tortoise	T	Reptile	Both	\$150,000
		<i>Isoetes louisianensis</i>	Louisiana Quillwort	E	Plant	Both	\$20,000
		<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Cont.	\$1,000
Camp Smith	NGB	<i>Falco peregrinus</i>	Peregrine Falcon	E(S/A)	Bird	Cont.	\$2,000
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Cont.	\$2,000
Clark County TS	NGB	<i>Gopherus agassizii</i>	Desert Tortoise	T	Reptile	Both	\$58,000
Devens RFT.A	USARC	<i>Falco peregrinus</i>	Peregrine Falcon	E(S/A)	Bird	Both	\$200
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	\$200
Dugway Proving Ground	AMC	<i>Spiranthes diluvialis</i>	Ute Ladies'-tresses	T	Plant	Cont.	\$5,000
Ft. Belvoir	MDW	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	\$14,000

Installation	MACOM	Scientific Name	Common Name	Fed stat	Cat	Occur	Total Cost		
Ft. Benning	TRADOC	<i>Alligator mississippiensis</i>	American Alligator	T(S/A)	Reptile	Both	\$800		
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	\$1,575		
		<i>Mycteria americana</i>	Wood Stork	E	Bird	Both	\$325		
		<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Onsite	\$2,860,000		
		<i>Trillium reliquum</i>	Relict Trillium	E	Plant	Onsite	\$4,750		
		Ft. Bliss	TRADOC	<i>Coryphantha sneedii</i> <i>var. sneedii</i>	Sneed Pincushion Cactus	E	Plant	Both	\$40,000
Ft. Bliss	TRADOC	<i>Falco femoralis septentrionalis</i>	Northern Aplomado Falcon	E	Bird	Cont.	\$65,000		
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	\$85,000		
		Ft. Bragg	FORSCOM	<i>Lysimachia asperulaefolia</i>	Rough-leaved Loosestrife	E	Plant	Both	\$84,756
		<i>Neonympha mitchellii francisci</i>	Saint Francis' Satyr Butterfly	E	Insect	Onsite	\$39,891		
Ft. Bragg	FORSCOM	<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Both	\$1,184,963		
		<i>Rhus michauxii</i>	Michaux's Sumac	E	Plant	Both	\$84,756		
		<i>Schwalbea americana</i>	American Chaffseed	E	Plant	Both	\$84,756		
		Ft. Carson	FORSCOM	<i>Falco peregrinus anatum</i>	American Peregrine Falcon	E	Bird	Both	\$3,000
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	\$100		
Ft. Carson	FORSCOM	<i>Oncorhynchus clarki stomias</i>	Greenback Cutthroat Trout	T	Fish	Onsite	\$7,000		
		<i>Spiranthes diluvialis</i>	Ute Ladies'-tresses	T	Plant	Onsite	\$200		
		<i>Strix occidentalis lucida</i>	Mexican Spotted Owl	T	Bird	Both	\$44,000		
		Ft. Chaffee	TRADOC	<i>Nicrophorus americanus</i>	American Burying Beetle	E	Insect	Both	\$50,000
Ft. Gordon	TRADOC	<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Onsite	\$40,000		
Ft. Hood	FORSCOM	<i>Dendroica chrysoparia</i>	Golden-cheeked Warbler	E	Bird	Both	\$464,000		
		<i>Vireo atricapillus</i>	Black-capped Vireo	E	Bird	Both	\$52,600		
Ft. Huachuca	TRADOC	<i>Leptonycteris curasoae yerbabuena</i>	Lesser Long-nosed Bat	E	Mammal	Both	\$44,500		
		<i>Strix occidentalis lucida</i>	Mexican Spotted Owl	T	Bird	Both	\$115,000		
		Ft. Hunter Liggett	USARC	<i>Branchinecta lynchi</i>	Vernal Pool Fairy Shrimp	T	Crustacean	Onsite	\$7,500
Ft. Hunter Liggett	USARC	<i>Bufo microscaphus californicus</i>	Arroyo Southwestern Toad	E	Amphibian	Onsite	\$2,500		
		<i>Falco peregrinus anatum</i>	American Peregrine Falcon	E	Bird	Both	\$2,500		
		<i>Gymnogyps californianus</i>	California Condor	E	Bird	Cont.	\$2,500		
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	\$17,500		
		<i>Vireo bellii pusillus</i>	Least Bell's Vireo	E	Bird	Both	\$2,500		
		<i>Vulpes macrotis mutica</i>	San Joaquin Kit Fox	E	Mammal	Both	\$82,500		
		Ft. Irwin	FORSCOM	<i>Gopherus agassizii</i>	Desert Tortoise	T	Reptile	Both	\$295,211

Installation	MACOM	Scientific Name	Common Name	Fed stat	Cat	Occur	Total Cost
Ft. Jackson	TRADOC	<i>Echinacea laevigata</i>	Smooth Coneflower	E	Plant	Onsite	\$17,000
		<i>Lysimachia asperulaefolia</i>	Rough-leaved Loosestrife	E	Plant	Onsite	\$17,000
		<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Onsite	\$265,680
Ft. Knox	TRADOC	<i>Myotis grisescens</i>	Gray Bat	E	Mammal	Onsite	\$75,000
		<i>Myotis sodalis</i>	Indiana Bat	E	Mammal	Both	\$25,000
Ft. Lee	TRADOC	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	\$1,200
Ft. Lewis	FORSCOM	<i>Howellia aquatilis</i>	Water Howellia	T	Plant	Both	\$50,000
Ft. McClellan	TRADOC	<i>Cyprinella caerulea</i>	Blue Shiner	T	Fish	Both	\$700
		<i>Marshallia mohrii</i>	Mohr's Barbara Buttons	T	Plant	Onsite	\$4,000
		<i>Myotis grisescens</i>	Gray Bat	E	Mammal	Both	\$88,300
		<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Cont.	\$5,000
		<i>Xyris tennesseensis</i>	Tennessee Yellow-eyed Grass	E	Plant	Both	\$5,500
Ft. McCoy	USARC	<i>Canis lupus</i>	Gray Wolf	E	Mammal	Cont.	\$775
		<i>Lycaeides melissa samuelis</i>	Karner Blue Butterfly	E	Insect	Both	\$87,668
Ft. Pickett	USARC	<i>Rhus michauxii</i>	Michaux's Sumac	E	Plant	Onsite	\$13,000
Ft. Polk	FORSCOM	<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Both	\$453,000
Ft. Riley	FORSCOM	<i>Charadrius melodus</i>	Piping Plover	T	Bird	Both	\$3,000
		<i>Falco peregrinus</i>	Peregrine Falcon	E(S/A)	Bird	Both	\$2,000
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	\$10,000
		<i>Sterna antillarum</i>	Least Tern	E	Bird	Both	\$3,000
Ft. Sam Houston	MEDCOM	<i>Dendroica chrysoparia</i>	Golden-cheeked Warbler	E	Bird	Both	\$35,000
		<i>Vireo atricapillus</i>	Black-capped Vireo	E	Bird	Both	\$35,000
Ft. Sill	TRADOC	<i>Vireo atricapillus</i>	Black-capped Vireo	E	Bird	Both	\$40,000
Ft. Stewart & Hunter Army Airfield	FORSCOM	<i>Acipenser brevirostrum</i>	Shortnose Sturgeon	E	Fish	Both	\$2,260
		<i>Drymarchon corais couperi</i>	Eastern Indigo Snake	T	Reptile	Both	\$995
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	\$77,864
		<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Onsite	\$836,890
Indiana AAP	AMC	<i>Myotis grisescens</i>	Gray Bat	E	Mammal	Cont.	\$15,000
		<i>Myotis sodalis</i>	Indiana Bat	E	Mammal	Cont.	\$15,000
Kahuku TA	USARPAC	<i>Eugenia koolauensis</i>	Nioi	E	Plant	Onsite	\$650
Kawailoa TA	USARPAC	<i>Eugenia koolauensis</i>	Nioi	E	Plant	Cont.	\$150
		<i>Lycopodium nutans</i>	Wawae'Iole	E	Plant	Onsite	\$900
		<i>Melicope lydgatei</i>	Alani	E	Plant	Onsite	\$2,000
		<i>Phylostegia parviflora var. parviflora</i>	No Common Name	E	Plant	Onsite	\$900
		<i>Pteris lidgatei</i>	No Common Name	E	Plant	Onsite	\$500
Lil Aaron Straus Wilderness Area	NGB	<i>Ptilimnium nodosum</i>	Harperella	E	Plant	Both	\$10,000
Macon TS	NGB	<i>Myotis sodalis</i>	Indiana Bat	E	Mammal	Cont.	\$160

Installation	MACOM	Scientific Name	Common Name	Fed stat	Cat	Occur	Total Cost		
Makua Military Reservation	USARPAC	<i>Alsinidendron obovatum</i>	No Common Name	E	Plant	Both	\$500		
		<i>Ctenitis squamigera</i>	Pauoa	E	Plant	Cont.	\$500		
		<i>Cyanea superba</i> ssp. <i>superba</i>	Oha	E	Plant	Onsite	\$500		
		<i>Dubautia herbstobatae</i>	Na'ena'e	E	Plant	Both	\$500		
		<i>Flueggea neowawraea</i>	Mehamehame	E	Plant	Onsite	\$500		
		<i>Neraudia angulata</i> var. <i>angulata</i>	Ma'aloa	E	Plant	Onsite	\$500		
		<i>Neraudia angulata</i> var. <i>dentata</i>	Ma'aloa	E	Plant	Onsite	\$500		
		<i>Sanicula mariversa</i>	No Common Name	E	Plant	Both	\$900		
		<i>Spermolepis</i> <i>hawaiiensis</i>	Hawaiian Parsley	E	Plant	Both	\$1		
		<i>Tetramolopium filiforme</i> var. <i>polyphyllum</i>	No Common Name	E	Plant	Both	\$400		
		<i>Viola chamissoniana</i> ssp. <i>chamissoniana</i>	Pamakani	E	Plant	Onsite	\$500		
		Martinez Reserve Center	USARC	<i>Chamaesyce deltoidea</i> ssp. <i>deltoidea</i>	Deltoid Spurge	E	Plant	Both	\$42,000
		Pinon Canyon Maneuver Site	FORSCOM	<i>Haliaeetus</i> <i>leucocephalus</i>	Bald Eagle	T	Bird	Both	\$100
Pohakuloa TA	USARPAC	<i>Haplostachys</i> <i>haplostachya</i>	No Common Name	E	Plant	Both	\$12,500		
		<i>Loxioides bailleui</i>	Palila	E	Bird	Both	\$57,000		
		<i>Silene lanceolata</i>	Lanceleaf Catchfly	E	Plant	Onsite	\$12,500		
		<i>Solanum incompletum</i>	Spiny Popolo	E	Plant	Onsite	\$200		
Pom Annex	TRADOC	<i>Charadrius</i> <i>alexandrinus nivosus</i>	Western Snowy Plover	T	Bird	Both	\$10,000		
		<i>Chorizanthe pungens</i> var. <i>pungens</i>	Monterey Spineflower	T	Plant	Both	\$16,001		
		<i>Euphilotes enoptes</i> <i>smithi</i>	Smith's Blue Butterfly	E	Insect	Both	\$57,000		
		<i>Gilia tenuiflora</i> ssp. <i>arenaria</i>	Monterey Sand Gilia	E	Plant	Both	\$16,000		
Redstone Arsenal	AMC	<i>Palaemonias alabamiae</i>	Alabama Cave Shrimp	E	Crustacean	Both	\$39,990		
Savanna Army Depot Activity	AMC	<i>Haliaeetus</i> <i>leucocephalus</i>	Bald Eagle	T	Bird	Both	\$4,200		
		<i>Lampsilis higginsii</i>	Higgins' Eye Pearlymussel	E	Clam	Both	\$150		
		<i>Myotis sodalis</i>	Indiana Bat	E	Mammal	Cont.	\$150		

Installation	MACOM	Scientific Name	Common Name	Fed stat	Cat	Occur	Total Cost
Schofield Barracks	USARPAC	<i>Ctenitis squamigera</i>	Pauoa	E	Plant	Cont.	\$500
Military Reservation		<i>Cyanea grimesiana ssp. obatae</i>	Haha Oha	E	Plant	Cont.	\$500
		<i>Cyanea superba ssp. superba</i>	Oha	E	Plant	Onsite	\$500
		<i>Lycopodium nutans</i>	Wawae`Iole	E	Plant	Cont.	\$500
		<i>Neraudia angulata var. angulata</i>	Ma'aloa	E	Plant	Onsite	\$500
		<i>Neraudia angulata var. dentata</i>	Ma'aloa	E	Plant	Onsite	\$500
		<i>Pteris lidgatei</i>	No Common Name	E	Plant	Onsite	\$500
		<i>Solanum sandwicense</i>	Popolo`Aiakeakua	E	Plant	Cont.	\$500
		<i>Stenogyne kanehoana</i>	No Common Name	E	Plant	Cont.	\$500
		<i>Viola chamissoniana ssp. chamissoniana</i>	Pamakani	E	Plant	Both	\$500
Sierra Army Depot	AMC	<i>Falco peregrinus</i>	Peregrine Falcon	E(S/A)	Bird	Both	\$1,000
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	\$1,000
Skelton TS	NGB	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	\$200
Stead TS	NGB	<i>Falco peregrinus</i>	Peregrine Falcon	E(S/A)	Bird	Both	\$22,000
		<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	\$22,000
Sunny Point	MTMC	<i>Lysimachia asperulaefolia</i>	Rough-leaved Loosestrife	E	Plant	Both	\$4,000
West Point	USMA	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	\$7,200
White Sands Missile Range	AMC	<i>Falco femoralis septentrionalis</i>	Northern Aplomado Falcon	E	Bird	Both	\$65,000
		<i>Hedeoma todsenii</i>	Todsen's Pennyroyal	E	Plant	Both	\$1,000
Yakima TC	FORSCOM	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	\$20,000
Yuma Proving Ground	AMC	<i>Echinocactus horizontalonius var. nicholii</i>	Nichol's Turk's Head Cactus	E	Plant	Onsite	\$50,000
		<i>Gopherus agassizii</i>	Sonoran Population of the (Sonoran Population)	T(S/A)	Reptile	Both	\$1,000
			Desert Tortoise				

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