

# **Installation Summaries from the FY 2000 Survey of Threatened and Endangered Species on Army Lands**

**January 2002**

**U.S. Army Environmental Center  
Aberdeen Proving Ground, Maryland 21010-5401**

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The Army's Environmental Quality Report (EQR) is one of the means by which installations report annually to Army Headquarters (HQDA) on a variety of natural resource and environmental issues. This report (part of a continuing series) summarizes data from a variety of sources including the Threatened and Endangered Species portion of the FY 2000 EQR. Installation-level data provides information on species that occur on or contiguous to each installation, while species-level data lists all installations on which each species occurs. Corresponding information on federal status, critical habitat, informal consultations with the U.S. Fish and Wildlife Service (USFWS) and biological opinions rendered by USFWS are provided.

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**Jason M. Bak, Steven Sekscienski, and Bill Woodson**

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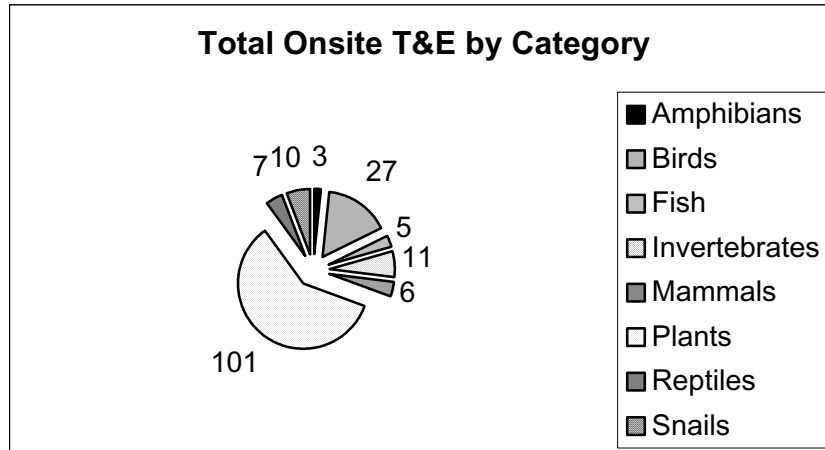


# 1 Executive Summary

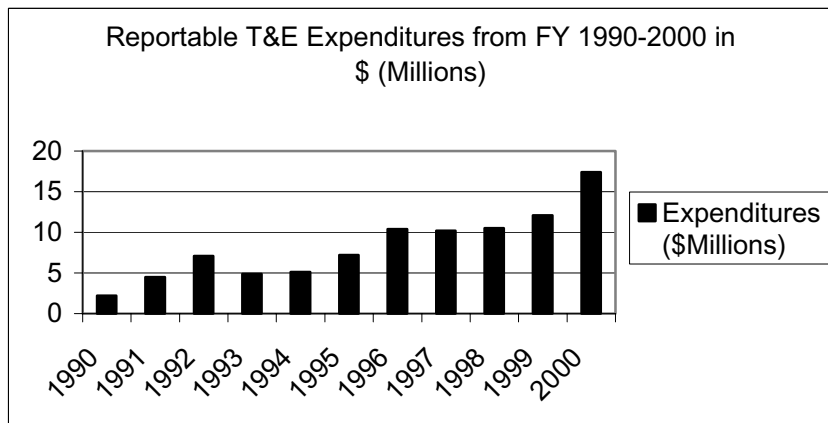
The Army has 170 distinct Threatened, Endangered, and proposed Threatened/Endangered species on 94 installations. Figure 1 shows the breakdown by category of the onsite<sup>1</sup> Federally Threatened and Endangered species (T&E) for FY 2000. The Army has 12 installations with designated critical habitat occurring for one or more species. By the end of FY 2000, the Army had completed 30 Threatened and/or Endangered Species Management Plans.

In FY 2000, the Army spent over \$20 million dollars on Threatened and Endangered species management. This figure includes Endangered Species Act (ESA) reportable expenses<sup>2</sup> of \$17.4 million dollars, including both onsite and contiguous<sup>3</sup> species. In addition, \$3.1 million dollars was spent on non-reportable expenses<sup>4</sup> for onsite and contiguous species. These monetary figures do not include millions of dollars that are expended by military operations for work-arounds and avoidance. Figure 2 shows reportable expenses from FY 1990-2000. Table 1 shows the top ten species, in terms of expenditures, for FY 2000.

**Figure 1. Onsite T&E by Category for FY 2000.**



**Figure 2. Reportable T&E Expenditures from FY 1990-2000.**



<sup>1</sup> Species that have been documented on the installation.

<sup>2</sup> Money spent primarily for the conservation of Threatened and Endangered species pursuant to the Endangered Species Act.

<sup>3</sup> Species known to occupy or otherwise use habitat adjacent to an installation, which may be affected by installation military activities and land management practices.

<sup>4</sup> Money spent on multi-species projects, proposed Threatened, proposed Endangered, candidate, State listed, and any other species of concern.



**Table 1. Army's Top T&E Expenditures for FY 2000.**

| <b>Top Expenditures for FY 2000</b> |                                      |
|-------------------------------------|--------------------------------------|
| <b>Species Common Name</b>          | <b>Reportable Expenditures (\$K)</b> |
| Red-cockaded Woodpecker             | 5,529.4                              |
| Black-capped Vireo                  | 1,422.5                              |
| Golden-cheeked Warbler              | 1,304.5                              |
| Palila                              | 1,205.5                              |
| Desert Tortoise                     | 963.0                                |
| Southwestern Willow Flycatcher      | 560.0                                |
| Indiana Bat                         | 485.0                                |
| Gray Bat                            | 464.5                                |
| Bald Eagle                          | 328.4                                |
| San Joaquin Kit Fox                 | 271.0                                |

## **2 Introduction**

### **Background**

The Army's primary mission is to provide national defense. However, as a Federal agency, the Army is also required by the Endangered Species Act to conserve the Threatened and Endangered species that occur on the same lands where it conducts the training of soldiers and testing of weapons. Regular data collection efforts provide the Army with information that it needs to monitor and manage Federally Threatened, Endangered, proposed, and Candidate species (TES) and their habitats (Refer to Section 5 for an expanded definition of the acronyms). Each year, installations are asked to provide Army Headquarters (HQDA) with a list of TES occurring within their boundaries and on surrounding lands, and respond to a series of questions about those species. This information gives the Army the ability to assess the status of its' TES nationwide, to plan for expenditures related to TES, and to deal proactively with any potential conflicts between TES and the military mission (Shaw and Hill 1996, Schreiber et al. 1997, Shaw et al. 1998).

### **Objective**

The objective of this project was to analyze and report TES information from the FY 2000 Environmental Quality Report (EQR) and other available data sources. This data will help the Army plan how to best comply with its obligations under the Endangered Species Act (ESA) while carrying out its military mission.

### **Approach**

Threatened and Endangered Species data are now extracted from the EQR, which contains questions on a broad range of environmental and natural resource issues, including TES. Questions on TES included Federal status, presence of critical habitat, number of informal consultations and Biological Opinions, and total expenditures for each species on the installation. Information is also collected on the status of an installation's Endangered Species Management Plan (ESMP) and Planning Level Survey (PLS), covering all species on the installation.

### **Scope**

The intended scope of the EQR encompasses all Army installations with onsite or contiguous species that were listed in the Federal Register in late FY 2000 as having Threatened, Endangered, Proposed Threatened, Proposed Endangered, or Candidate status. As in previous survey years, several installations did not respond to the survey and therefore had to be contacted to obtain data. For practical purposes, the survey represents a complete census of Army installations with TES.

## **3 Changes From the FY 1998 TES Survey**

The last published report documented conservation data collected during FY 1998, no report was produced for FY 1999. This report focuses on conservation data for FY 2000, but includes tables that provide updates from the FY 1999 data collection.

### **Species That Have Changed Federal Status**

Tables 2 and 3 provide updates to installation species' Federal status from FY 1998-1999 and FY 1999-2000, respectively. Over the two-year period, five species were reported as having an updated status, either proposed to listed or proposed to withdrawn from listing consideration.

**Table 2. Species with a different Federal status from that reported in FY 1998.**

| Scientific Name                    | Common Name        | Category | 1998 | 1999      |
|------------------------------------|--------------------|----------|------|-----------|
| <i>Rumex orthoneurus</i>           | Blumer's Dock      | Plant    | PT   | Withdrawn |
| <i>Ursus americanus floridanus</i> | Florida Black Bear | Mammal   | C    | Withdrawn |

**Table 3. Species with a different Federal status from that reported in FY 1999.**

| Scientific Name                             | Common Name         | Category     | 1999 | 2000 |
|---|---------------------|--------------|------|------|
| <i>Chasiempis sandwichensis ibidus</i>      | Oahu Elepaio        | Bird         | PE   | E    |
| <i>Chlorogalum purpureum var. purpureum</i> | Purple amole        | Plant        | PT   | T    |
| <i>Cicurina madla</i>                       | Madla's Cave Spider | Invertebrate | PE   | E    |

## New Species Reported

Tables 4 and 5 reflect species that were reported by installations for the first time in FY 1999 or FY 2000, respectively. Nineteen species were added since the FY 1998 published report. The breakdown by category includes: 6 plants, 4 invertebrates, 2 amphibians, 2 fish, 2 mammals, 1 bird, 1 clam, and 1 snail.

**Table 4. Species reported in FY 1999 that were not reported in FY 1998.**

| Scientific Name                  | Common Name                 | Category     | 1999 |
|----------------------------------|-----------------------------|--------------|------|
| <i>Ambystoma californiense</i>   | California Tiger Salamander | Amphibian    | C    |
| <i>Euphilotes enoptes smithi</i> | Smith's Blue Butterfly      | Invertebrate | E    |
| <i>Gilia tenuiflora.arenaria</i> | Monterey Gilia              | Plant        | E    |
| <i>Somateria fischeri</i>        | Spectacled Eider            | Bird         | T    |

**Table 5. Species reported in FY 2000 that were not reported in FY 1999.**

| Scientific Name                             | Common Name              | Category     | 2000 |
|---|--------------------------|--------------|------|
| <i>Ambystoma cingulatum</i>                 | Flatwoods Salamander     | Amphibian    | T    |
| <i>Achatinella pulcherrima</i>              | Pupu kuahiwi             | Snail        | E    |
| <i>Canis lupus baileyi</i>                  | Mexican Gray Wolf        | Mammal       | E    |
| <i>Chamaesyce celastroides var. kaenana</i> | 'Akoko                   | Plant        | E    |
| <i>Cynomys ludovicianus</i>                 | Black-tailed Prairie Dog | Mammal       | C    |
| <i>Cyprogenia stegaria</i>                  | Fanshell                 | Clam         | E    |
| <i>Holocarpha macradenia</i>                | Santa Cruz Tarplant      | Plant        | T    |
| <i>Lasthenia conjugens</i>                  | Contra Costa Goldfields  | Plant        | E    |
| <i>Lepidium papilliferum</i>                | Slick Spot Peppergrass   | Plant        | C    |
| <i>Lupinus sulphureus kincaidii</i>         | Kincaid's Lupine         | Plant        | T    |
| <i>Manduca blackburni</i>                   | Blackburn's Sphinx Moth  | Invertebrate | E    |
| <i>Oncorhynchus tshawytscha</i>             | Chinook Salmon           | Fish         | T    |
| <i>Percina rex</i>                          | Roanoke Logperch         | Fish         | E    |
| <i>Rhadine exilis</i>                       | Rhadine exilis           | Invertebrate | E    |
| <i>Rhadine infernalis</i>                   | Rhadine infernalis       | Invertebrate | E    |

## Species Removed from Installations Reporting TES in FY 1999 and FY 2000

Tables 6 and 7 represent the species no longer reported on any Army installation, in FY 1999 and FY 2000, due to de-listing/withdrawal from consideration, new distribution information, or installation closures. Sixteen species were removed from a total of 38 installations.

**Table 6. Species removed from installation reporting in FY 1999.**

| Scientific Name                           | Common Name                    | Category     | Installation               | 1998   | 1999      |
|---|--------------------------------|--------------|----------------------------|--------|-----------|
| <i>Falco peregrinus</i>                   | Peregrine Falcon               | Bird         | Aberdeen PG                | T(S/A) | Withdrawn |
|   |                                |              | Camp Rilea                 | T(S/A) | Withdrawn |
|   |                                |              | Devens RFTA                | T(S/A) | Withdrawn |
|   |                                |              | Fort Campbell              | T(S/A) | Withdrawn |
|   |                                |              | Fort Hood                  | T(S/A) | Withdrawn |
|   |                                |              | Fort Riley                 | T(S/A) | Withdrawn |
|   |                                |              | Redstone Arsenal           | T(S/A) | Withdrawn |
|   |                                |              | Rocky Mountain Arsenal     | T(S/A) | Withdrawn |
|   |                                |              | Sierra Army Depot          | T(S/A) | Withdrawn |
|   |                                |              | Sunflower AAP              | T(S/A) | Withdrawn |
|   |                                |              | White Sands                | T(S/A) | Withdrawn |
| <i>Falco peregrinus anatum</i>            | Peregrine Falcon               | Bird         | ARDEC                      | T      | Withdrawn |
|   |                                |              | Bayonne                    | T      | Withdrawn |
|   |                                |              | Camp Ashland               | T      | Withdrawn |
|   |                                |              | Camp Navajo                | T      | Withdrawn |
|   |                                |              | Camp Smith                 | T      | Withdrawn |
|   |                                |              | Deseret Chemical Depot     | T      | Withdrawn |
|   |                                |              | Dugway Proving Ground      | T      | Withdrawn |
|   |                                |              | Fort Bliss                 | T      | Withdrawn |
|   |                                |              | Fort Carson                | T      | Withdrawn |
|   |                                |              | Fort Greely                | T      | Withdrawn |
|   |                                |              | Fort Huachuca              | T      | Withdrawn |
|   |                                |              | Fort Hunter Liggett        | T      | Withdrawn |
|   |                                |              | Fort Richardson            | T      | Withdrawn |
|   |                                |              | Fort Wainwright            | T      | Withdrawn |
|   |                                |              | Pinyon Canyon              | T      | Withdrawn |
|   |                                |              | Stead Training Site        | T      | Withdrawn |
|   |                                |              | White Sands                | T      | Withdrawn |
| <i>Megalagrion xanthomelas</i>            | Orangeblack Hawaiian Damselfly | Invertebrate | Tripler Army MED CTR       | C      | C         |
| <i>Myotis grisescens</i>                  | Gray Bat                       | Mammal       | Camp Crowder               | E      | E         |
| <i>Onchorhynchus mykiss</i>               | Steelhead                      | Fish         | Camp San Luis Obispo       | T      | T         |
| <i>Rana pretiosa</i>                      | Oregon Spotted Frog            | Amphibian    | Dugway Proving Ground      | C      | C         |
| <i>Rumex orthoneurus</i>                  | Blumer's Dock                  | Plant        | Fort Huachuca              | PT     | Withdrawn |
| <i>Tetramolopium lepidotum. lepidotum</i> | None                           | Plant        | Schofield Barracks Mil Res | E      | E         |
| <i>Ursus americanus floridanus</i>        | Florida Black Bear             | Mammal       | Camp Blanding              | C      | Withdrawn |
| <i>Vireo bellii pusillus</i>              | Least Bell's Vireo             | Bird         | Fort McCoy                 | E      | E         |

**Table 7. Species removed from installation reporting in FY 2000.**

| Scientific Name                        | Common Name                | Category  | Installation     | 1999 | 2000 |
|--|----------------------------|-----------|------------------|------|------|
| <i>Chasiempis sandwichensis ibidus</i> | Oahu Elepaio               | Bird      | Kahuku TA        | PE   | E    |
| <i>Clematis morefieldii</i>            | Morefield's Leather-Flower | Plant     | Redstone Arsenal | E    | E    |
| <i>Cyprinell caerulea</i>              | Blue Shiner                | Fish      | Fort McClellan   | T    | T    |
| <i>Myotis grisescens</i>               | Gray Bat                   | Mammal    | Redstone Arsenal | E    | E    |
| <i>Myotis sodalis</i>                  | Indiana Bat                | Mammal    | Redstone Arsenal | E    | E    |
| <i>Rana pretiosa</i>                   | Oregon Spotted Frog        | Amphibian | Fort Lewis       | C    | C    |

## 4 Summary Information

### Installation and Species Information

Information was collected from a total of 124 installations for the FY 2000 reporting period that have either onsite or contiguous TES. Of those responding, 99 installations (80%) reported onsite TES and 25 installations (20%) reported only having contiguous TES.

Of the 220 distinct species, 75% are Endangered, 19% are Threatened, 4% are Candidates, 1 % are Threatened due to similarity of appearance or proposed Threatened (Table 8). By category, 51% of the distinct species are plants, 16% are birds, 7% are mammals, 6% are reptiles, 5% are invertebrates, 5% are snails, 4% are clams, 4% are fish, and 2% are amphibians (Table 8).

The 124 installations with onsite or contiguous TES include: 55 Army National Guard, 22 Army Materiel Command, 14 Training and Doctrine Command, 12 Forces Command, 7 U.S. Army Reserve Command, 6 U.S. Army, Pacific, 2 Military District of Washington, 2 Medical Command, 1 Army Testing and Evaluation Center, 1 Military Traffic Management Command, 1 U.S. Army South, and 1 U.S. Military Academy.

**Table 8. Federal status for distinct species by category for onsite and contiguous TES for FY 2000.**

|                                | Candidate | Threatened | Endangered | Proposed Threatened | Threatened due to Similarity of Appearance | Total by Category |
|--------------------------------|-----------|------------|------------|---------------------|--|-------------------|
| <b>Amphibians</b>              | 1         | 1          | 2          | 0                   | 0  | <b>4</b>          |
| <b>Birds</b>                   | 0         | 8          | 28         | 1                   | 0  | <b>37</b>         |
| <b>Clams</b>                   | 0         | 0          | 8          | 0                   | 0  | <b>8</b>          |
| <b>Fish</b>                    | 1         | 4          | 4          | 0                   | 0  | <b>9</b>          |
| <b>Invertebrates</b>           | 1         | 3          | 9          | 0                   | 0  | <b>13</b>         |
| <b>Mammals</b>                 | 2         | 3          | 10         | 0                   | 1  | <b>16</b>         |
| <b>Plants</b>                  | 3         | 14         | 91         | 0                   | 0  | <b>108</b>        |
| <b>Reptiles</b>                | 1         | 8          | 3          | 0                   | 2  | <b>14</b>         |
| <b>Snails</b>                  | 1         | 0          | 10         | 0                   | 0  | <b>11</b>         |
| <b>Total by Federal Status</b> | <b>10</b> | <b>41</b>  | <b>165</b> | <b>1</b>            | <b>3</b>                                   | <b>220</b>        |

## T&E Species

A total of 209 distinct T&E species (407 occurrences) were identified on 118 of the 124 installations that reported having onsite or contiguous TES. Of the 118 installations, 94 reported having onsite T&E. The remaining 24 installations reported having only contiguous T&E species. Of the 209 distinct T&E species, 170 species occurred onsite and the remaining 39 species were reported as being contiguous., to at least one installation and not onsite at any installation (Table 9).

**Table 9. Installation and T&E species summary information.**

|                                      | Onsite | Contiguous | Total |
|--------------------------------------|--------|------------|-------|
| <b>Number of Installations</b>       | 94     | 24         | 118   |
| <b>Number of Distinct Species</b>    | 170    | 39         | 209   |
| <b>Number of Species Occurrences</b> | 309    | 98         | 407   |

## Proposed and Candidate Species

A total of 11 distinct proposed/Candidate species were identified from the 124 installations that reported having onsite or contiguous TES. Six installations reported having only proposed and/or Candidate species on or contiguous to their installation. Of the 11 distinct proposed/Candidate species identified on Army lands, 10 occurred within at least one installation's boundary. The remaining one was reported as being contiguous to at least one installation and not onsite at any installation (Table 10).

**Table 10. Installation and Candidate/proposed species summary information for FY 2000.**

|                                   | Onsite | Contiguous | Total |
|-----------------------------------|--------|------------|-------|
| <b>Number of Installations</b>    | 5      | 1          | 6     |
| <b>Number of Distinct Species</b> | 10     | 1          | 11    |

## **Critical Habitat**

The USFWS has designated critical habitat for 135 species, 11 of those species have designations occurring on 12 Army installations (Table 11). Of the 14 occurrences, 6 of the critical habitat designations are on reported unoccupied habitat.

**Table 11. Critical habitat found on Army installations for FY 2000.**

| Installation               | Status Code | Category | Common Name                    | Onsite/ Contiguous |
|----------------------------|-------------|----------|--------------------------------|--------------------|
| Camp Ashland               | E           | Bird     | Whooping Crane                 | C                  |
| Camp Navajo                | T           | Bird     | Mexican Spotted Owl            | C                  |
| Camp Ripley                | T           | Mammal   | Gray Wolf                      | O                  |
| Florence Mltry Rsrvt       | E           | Bird     | Cactus Ferruginous Pygmy-owl   | O                  |
| Fort Huachuca              | E           | Bird     | Southwestern Willow Flycatcher | C                  |
| Fort Huachuca              | E           | Plant    | Huachuca Water-umbel           | O                  |
| Fort Huachuca              | T           | Bird     | Mexican Spotted Owl            | O                  |
| Fort Irwin                 | T           | Reptile  | Desert Tortoise                | O                  |
| Fort Lewis                 | T           | Bird     | Northern Spotted Owl           | C                  |
| Fort Wingate               | T           | Bird     | Mexican Spotted Owl            | C                  |
| Hastings Training Site     | E           | Bird     | Whooping Crane                 | C                  |
| Pohakuloa Training Area    | E           | Bird     | Palila                         | O                  |
| Presidio of Monterey Annex | T           | Bird     | Western Snowy Plover           | O                  |
| White Sands Missile Range  | E           | Plant    | Todsen's Pennyroyal            | O                  |

## Consultations and Biological Opinions

Installations reported a total of 284 informal and 43 formal consultations with the USFWS/NMFS in FY 2000. Of the 52 Biological Opinions rendered, 26 (46%) resulted in a Non-Jeopardy Biological Opinion and the remaining 26 (46%) Biological Opinions resulted in a No Opinion Rendered. No Jeopardy Biological Opinions were reported in FY 2000.

## Endangered Species Management Plans

Each installation is required to prepare an Endangered Species Management Plan (ESMP) for listed and proposed species. Of the 94 installations reporting onsite T&E, 30 have current and approved ESMPs; 35 have partially complete ( $\geq 60\%$ ); 6 have partially complete ( $< 60\%$ ), and 1 installation reported they have not yet initiated an ESMP. In addition, 16 installations reported they did not require an ESMP and 11 installations did not report the status of their ESMP. Of the 25 installations reporting only contiguous T&E, 2 have current and approved ESMPs; 1 has a partially complete ( $\geq 60\%$ ); 2 have partially complete ( $< 60\%$ ) ESMPs, and 2 installations reported they have not yet initiated an ESMP. In addition, 14 installations do not require an ESMP and 4 installations did not report the status of their ESMP.

## Planning Level Surveys

Each installation is also required to prepare a T&E Planning Level Survey (PLS) to provide natural resource managers the basis to develop plans for continued training and mission requirements, and to meet stewardship goals. Of the 94 installations reporting onsite T&E, 67 have a completed T&E PLS, 7 have a partially completed T&E PLS ( $\geq 85\%$ ), 12 have a partially completed T&E PLS ( $> 50\% - < 85\%$ ), and 3 have a partially completed T&E PLS ( $> 0 - 50\%$ ). Of the remaining 10 installations, 1 has not initiated the PLS and 9 did not report the status of the T&E PLS. Of the 25 installations reporting contiguous T&E, 10 have a completed T&E PLS, 3 have a partially completed PLS ( $\geq 85\%$ ), 2 have a partially completed T&E PLS ( $> 50\% - < 85\%$ ), and 2 have a partially completed T&E PLS ( $> 0 - 50\%$ ). Of the remaining 8 installations, 3 are not required to have a T&E PLS and 5 did not report the status of the T&E PLS.

## Expenditures

T&E expenditures are broken down into reportable and non-reportable expenditures. Reportable expenditures include money spent primarily for the conservation of T&E species pursuant to the Endangered Species Act. Non-reportable expenditures are monies spent on multi-species projects, proposed Threatened, proposed Endangered, Candidate, State listed, and any other species of concern. These expenses are typically incurred to prevent listing.

In reportable expenditures, a total of \$17,388K was spent for onsite T&E in FY 2000. By category, expenditures for onsite T&E include: \$11,102K for birds, \$2,673K for plants, \$1,389K for mammals, \$1,332 for reptiles, \$333K for invertebrates, \$172K for snails, and \$98K for fish. An additional \$134K was spent on contiguous T&E in FY 2000. The breakdown by category includes, \$92K for birds and \$42K for mammals. Table 12 provides a summary of Army reportable expenses from FY1996-FY2000.

An additional \$3,149K was also spent in non-reportable expenditures, for managing all other sensitive species not covered in the species-specific expenditures question. By MACOM, TRADOC spent \$1,386K on non-reportable species, MEDCOM spent \$700K, FORSCOM spent \$420K, ARNG spent \$373K, ATEC spent \$144K, AMC spent \$74K, USARC spent \$24K, MDW spent \$23K, and USMA spent \$6K. These expenditures are not an inclusive list as other unreported projects may include money for species management.

**Table 12. Reportable Expenditures (\$K) since FY 1996.**

| <b>Year (FY)</b>                     | <b>1996</b> | <b>1997</b> | <b>1998</b> | <b>1999</b> | <b>2000</b> |
|--------------------------------------|-------------|-------------|-------------|-------------|-------------|
| <b>Reportable Expenditures (\$K)</b> | 10,377.5    | 10,222.2    | 10,510.6    | 12,085.0    | 17,388.1    |

### **Consistent Reporting**

The Army is frequently asked for information on Threatened and Endangered species. However, often the requestor does not realize the intricacy of the data in that there are multiple answers to the question, "How many Threatened and Endangered species are on Army lands?" For future consistency, the number provided (unless other data are specifically requested) will be distinct T&E onsite<sup>5</sup>. Table 13 shows these numbers for FY 1996 through FY 2000.

**Table 13. Number of TEP species by fiscal year.**

| <b>Onsite</b> | <b>Year</b> | <b># of Species</b> | <b># of installations</b> |
|---------------|-------------|---------------------|---------------------------|
|               | 1996        | 181                 | 105                       |
|               | 1997        | 175                 | 91                        |
|               | 1998        | 153                 | 94                        |
|               | 1999        | 153                 | 95                        |
|               | 2000        | 170                 | 94                        |

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<sup>5</sup> Proposed Threatened and Endangered species are not included in this number, even though for management purposes the Army considers them Threatened and Endangered species.



## 5 Definitions

**Biological Opinion** – The document that states the opinion of the U. S. Fish and Wildlife Service (USFWS)/ National Marine Fisheries Service (NMFS) as to whether or not a Federal agency's proposed action is likely to jeopardize the continued existence of a listed species or result in the destruction or adverse modification of critical habitat.

**Category** – Species are divided into the following categories in this report:

|               |          |
|---------------|----------|
| amphibians    | mammals  |
| birds         | plants   |
| clams         | reptiles |
| invertebrates | snails   |
| fish          |          |

**Critical Habitat** – An area determined by the USFWS/ NMFS to be critical to the survival of a species. Under certain circumstances, critical habitat may be designated in an area deemed favorable for the species, but where the species is not known to occur. Only a small number of the species with critical habitat actually have such habitat designated on Army installations.

**Distinct Species** – A species may occur on several installations, but is only counted once for purposes of assessing the number of distinct species found Army-wide. For example, species X may occur on five installations, but when the total number of species is presented, species X is only counted once.

**ESMP** – Endangered Species Management Plan. A plan developed in accordance with Army Regulation (AR) 200-3, Chapter 11, for the management of listed or proposed species or critical habitat.

**Expenditures** – The total cost for managing each Federally listed Threatened or Endangered species for which funds were expended during the reporting fiscal year. Guidelines for reporting TES expenditures are provided by the USFWS. Guidance is based on the notion of "reasonably identifiable Federal Expenditures made primarily for the conservation of Endangered and Threatened species pursuant to this [Threatened and Endangered Species] Act."

### Federal Status

E – Federally Endangered

T – Federally Threatened

PE – Federally Proposed as Endangered

PT – Federally Proposed as Threatened

C – Candidate for Federal Listing

C( w) – Candidate species whose listing is "warranted but precluded" by other listing activity in the past year. No distinction is made between C and C( w) for reporting purposes.

**Federal Action [Proposed Action]** – Any activity permitted, funded, or conducted by a Federal agency.

**Formal Consultation** – The process between USFWS/ NMFS and a Federal agency that commences when the Federal agency determines its action may affect a listed species or critical habitat. The Federal agency then submits a written request for consultation with USFWS/ NMFS. The process concludes with the issuance of a Biological Opinion from the USFWS/ NMFS, stating whether or not the action is likely to result in jeopardy to the species or adverse modification of critical habitat.

**Informal Consultation** – The informal consultation process precedes formal consultation and may be requested by the Federal agency, a designated non-Federal representative, or other applicant. Informal consultation may include such topics as which species occur in the proposed action area, and what effect the action may have on listed species or critical habitats. Informal consultation often concludes with USFWS/ NMFS providing written concurrence with the Federal agency's determination that its action is not likely to adversely affect listed species or critical habitat.

**Installation** – The term installation includes active military installations, state National Guard Bureau (NGB) offices, NGB training sites, Army ammunition plants and depots, and regional support centers for the Army Reserve. Analyses in this report do not make a distinction between the various types. In some cases it was difficult to define "installation" data because some NGB state offices, for example, reported on an individual basis, while others reported at the state level.

**Jeopardy Biological Opinion** – A Biological Opinion issued by the USFWS or NMFS stating that a proposed action is likely to jeopardize the continued existence of listed species or result in the destruction or adverse modification of critical habitat.

**MACOM** – Major Command

AMC- Army Materiel Command

ARNG- Army National Guard

ATEC- Army Testing and Evaluation Command

FORSCOM- Forces Command

TRADOC- Training and Doctrine Command

USARC- U.S. Army Reserve Command

USARPAC- U.S. Army Pacific Command

USARSO- U.S. Army South Command

USMA- U.S. Military Academy

**Non-jeopardy Biological Opinion** – A Biological Opinion issued by the USFWS or NMFS stating that a proposed action may affect, but is not likely to jeopardize the continued existence of listed species or result in adverse modification of critical habitat.

**PLS** – Planning Level Survey. An installation-wide inventory used to characterize essential components of the installation natural resources (e. g., landform, soil, water, and biota). Planning level surveys for TES include, at a minimum, a map showing the kinds and known distribution of TES on the installation.

**Species Occurrence** – An occurrence is equivalent to an individual record. For example, a species that occurs on three installations is recorded as having three occurrences.

**S/ A – Similarity of Appearance.** A species that closely resembles a Threatened or Endangered species may be given the Federal status of the species it resembles. Similarities of Appearance species are denoted with a T(S/A) or E(S/A). However, no distinction is made between S/A and TES for reporting purposes.

## **Species Location**

*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. Contiguous species are of concern to installations because of the possibility that they may at some future time be found on the installation.

*Onsite* – Species that have been documented on the installation.

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

**TEP** – The term TEP includes all Federally Threatened, Endangered, and Proposed species.

**TES** – Threatened and Endangered Species. The term TES includes all Federally Threatened, Endangered, Proposed, and Candidate species on Army lands.

# References

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# **Appendix A: TES Found on Each Installation**

| MACOM | Installation              | USFWS Region | Scientific Name                   | Common Name                       | Onsite/Contiguous | FED Stat | Category     | Critical Habitat on Installation |
|-------|---------------------------|--------------|-----------------------------------|-----------------------------------|-------------------|----------|--------------|----------------------------------|
| AMC   | Aberdeen Proving Ground   | 5            | Acipenser brevirostrum            | Short Nose Sturgeon               | Onsite            | E        | Fish         | No                               |
|       |                           |              | Haliaeetus leucocephalus          | Bald Eagle                        | Onsite            | T        | Bird         | No                               |
| AMC   | Adelphi Laboratory Center | 5            | Haliaeetus leucocephalus          | Bald Eagle                        | Onsite            | T        | Bird         | No                               |
| AMC   | Anniston Army Depot       | 4            | Xyris tennesseensis               | Tennessee Yellow-eyed Grass       | Onsite            | E        | Plant        | No                               |
| AMC   | ARDEC                     | 5            | Clemmys muhlenbergii              | Bog Turtle                        | Onsite            | T        | Reptile      | No                               |
|       |                           |              | Haliaeetus leucocephalus          | Bald Eagle                        | Contiguous        | T        | Bird         | No                               |
|       |                           |              | Myotis sodalis                    | Indiana Bat                       | Onsite            | E        | Mammal       | No                               |
| AMC   | Blue Grass Army Depot     | 4            | Trifolium stoloniferum            | Running Buffalo Clover            | Onsite            | E        | Plant        | No                               |
| AMC   | Deseret Chemical Depot    | 6            | Haliaeetus leucocephalus          | Bald Eagle                        | Contiguous        | T        | Bird         | No                               |
| AMC   | Holston AAP               | 4            | Haliaeetus leucocephalus          | Bald Eagle                        | Contiguous        | T        | Bird         | No                               |
| AMC   | Indiana AAP               | 3            | Myotis grisescens                 | Gray Bat                          | Onsite            | E        | Mammal       | No                               |
| AMC   | Iowa AAP                  | 3            | Myotis sodalis                    | Indiana Bat                       | Onsite            | E        | Mammal       | No                               |
| AMC   | Letterkenny AD            | 5            | Clemmys muhlenbergii              | Bog Turtle                        | Onsite            | T        | Reptile      | No                               |
| AMC   | Longhorn AAP              | 2            | Alligator mississippiensis        | American Alligator                | Onsite            | T(S/A)   | Reptile      | No                               |
| AMC   | Louisiana AAP             | 4            | Alligator mississippiensis        | American Alligator                | Onsite            | T(S/A)   | Reptile      | No                               |
| AMC   | McAlester AAP             | 2            | Nicrophorus americanus            | American Burying Beetle           | Onsite            | E        | Invertebrate | No                               |
| AMC   | Newport Chemical Activity | 3            | Haliaeetus leucocephalus          | Bald Eagle                        | Onsite            | T        | Bird         | No                               |
|       |                           |              | Myotis sodalis                    | Indiana Bat                       | Onsite            | E        | Mammal       | No                               |
| AMC   | Pueblo Depot Activity     | 6            | Charadrius montanus               | Mountain Plover                   | Onsite            | PT       | Bird         | No                               |
|       |                           |              | Cynomys ludovicianus              | Black-tailed Prairie Dog          | Onsite            | C        | Mammal       | No                               |
|       |                           |              | Etheostoma cragini                | Arkansas Darter                   | Contiguous        | C        | Fish         | No                               |
|       |                           |              | Vulpes velox                      | Swift Fox                         | Onsite            | C        | Mammal       | No                               |
| AMC   | Ravenna AAP               | 3            | Haliaeetus leucocephalus          | Bald Eagle                        | Contiguous        | T        | Bird         | No                               |
| AMC   | Redstone Arsenal          | 4            | Alligator mississippiensis        | American Alligator                | Onsite            | T(S/A)   | Reptile      | No                               |
|       |                           |              | Apios priceana                    | Price's Potato-bean               | Onsite            | T        | Plant        | No                               |
|       |                           |              | Cyprogenia stegaria               | Fanshell                          | Contiguous        | E        | Clam         | No                               |
|       |                           |              | Haliaeetus leucocephalus          | Bald Eagle                        | Onsite            | T        | Bird         | No                               |
|       |                           |              | Palaemonias alabamae              | Alabama Cave Shrimp               | Onsite            | E        | Invertebrate | No                               |
| AMC   | Riverbank AAP             | 1            | Desmocerus californicus dimorphus | Valley Elderberry Longhorn Beetle | Contiguous        | T        | Invertebrate | No                               |
| AMC   | Rock Island Arsenal       | 3            | Haliaeetus leucocephalus          | Bald Eagle                        | Onsite            | T        | Bird         | No                               |
|       |                           |              | Myotis sodalis                    | Indiana Bat                       | Contiguous        | E        | Mammal       | No                               |
| AMC   | Sierra Army Depot         | 1            | Haliaeetus leucocephalus          | Bald Eagle                        | Contiguous        | T        | Bird         | No                               |
| AMC   | Sunflower AAP             | 6            | Haliaeetus leucocephalus          | Bald Eagle                        | Contiguous        | T        | Bird         | No                               |
| AMC   | Volunteer AAP             | 4            | Scutellaria montana               | Large-flowered Skullcap           | Onsite            | E        | Plant        | No                               |

| MACOM | Installation           | USFWS Region | Scientific Name                            | Common Name               | Onsite/<br>Contiguous | FED Stat | Category     | Critical Habitat on Installation |
|-------|------------------------|--------------|--|---------------------------|-----------------------|----------|--------------|----------------------------------|
| ARNG  | Addicks Reservoir WETS | 2            | <i>Hymenoxys texana</i>                    | Texas Prairie Dawn-flower | Onsite                | E        | Plant        | No                               |
| ARNG  | Atterbury TS           | 3            | <i>Haliaeetus leucocephalus</i>            | Bald Eagle                | Onsite                | T        | Bird         | No                               |
|       |                        |              | <i>Myotis sodalis</i>                      | Indiana Bat               | Onsite                | E        | Mammal       | No                               |
| ARNG  | Barker Dam WETS        | 2            | <i>Hymenoxys texana</i>                    | Texas Prairie Dawn-flower | Onsite                | E        | Plant        | No                               |
| ARNG  | Camp Adair             | 1            | <i>Lupinus sulphureus kincaidii</i>        | Kincaid's Lupine          | Onsite                | T        | Plant        | No                               |
|       |                        |              | <i>Sidalcea nelsoniana</i>                 | Nelson's Checkermallow    | Onsite                | T        | Plant        | No                               |
|       |                        |              | <i>Strix occidentalis caurina</i>          | Northern Spotted Owl      | Contiguous            | T        | Bird         | No                               |
| ARNG  | Camp Ashland           | 6            | <i>Grus americana</i>                      | Whooping Crane            | Contiguous            | E        | Bird         | Yes                              |
|       |                        |              | <i>Scaphirhynchus albus</i>                | Pallid Sturgeon           | Contiguous            | E        | Fish         | No                               |
|       |                        |              | <i>Sterna antillarum</i>                   | Least Tern                | Contiguous            | E        | Bird         | No                               |
|       |                        |              | <i>Vulpes velox</i>                        | Swift Fox                 | Contiguous            | C        | Mammal       | No                               |
| ARNG  | Camp Barkeley          | 3            | <i>Vireo atricapillus</i>                  | Black-capped Vireo        | Onsite                | E        | Bird         | No                               |
| ARNG  | Camp Beaugard          | 4            | <i>Picoides borealis</i>                   | Red-cockaded Woodpecker   | Contiguous            | E        | Bird         | No                               |
| ARNG  | Camp Blanding          | 4            | <i>Alligator mississippiensis</i>          | American Alligator        | Onsite                | T(S/A)   | Reptile      | No                               |
|       |                        |              | <i>Aphelocoma coerulescens</i>             | Florida Scrub Jay         | Onsite                | T        | Bird         | No                               |
|       |                        |              | <i>Drymarchon corais couperi</i>           | Eastern Indigo Snake      | Onsite                | T        | Reptile      | No                               |
|       |                        |              | <i>Felis concolor coryi</i>                | Florida Panther           | Contiguous            | E        | Mammal       | No                               |
|       |                        |              | <i>Haliaeetus leucocephalus</i>            | Bald Eagle                | Onsite                | T        | Bird         | No                               |
|       |                        |              | <i>Mycteria americana</i>                  | Wood Stork                | Onsite                | E        | Bird         | No                               |
|       |                        |              | <i>Picoides borealis</i>                   | Red-cockaded Woodpecker   | Onsite                | E        | Bird         | No                               |
|       |                        |              | <i>Rhododendron chapmanii</i>              | Chapman Rhododendron      | Onsite                | E        | Plant        | No                               |
| ARNG  | Camp Crowder           | 3            | <i>Amblyopsis rosae</i>                    | Ozark Cavefish            | Contiguous            | T        | Fish         | No                               |
|       |                        |              | <i>Haliaeetus leucocephalus</i>            | Bald Eagle                | Onsite                | T        | Bird         | No                               |
|       |                        |              | <i>Myotis grisescens</i>                   | Gray Bat                  | Onsite                | E        | Mammal       |                                  |
| ARNG  | Camp Grayling          | 3            | <i>Dendroica kirtlandii</i>                | Kirtland's Warbler        | Onsite                | E        | Bird         | No                               |
|       |                        |              | <i>Haliaeetus leucocephalus</i>            | Bald Eagle                | Onsite                | T        | Bird         | No                               |
|       |                        |              | <i>Solidago houghtonii</i>                 | Houghton's Goldenrod      | Onsite                | T        | Plant        | No                               |
| ARNG  | Camp Gruber TS         | 2            | <i>Nicrophorus americanus</i>              | American Burying Beetle   | Onsite                | E        | Invertebrate | No                               |
| ARNG  | Camp Guernsey          | 6            | <i>Haliaeetus leucocephalus</i>            | Bald Eagle                | Contiguous            | T        | Bird         | No                               |
| ARNG  | Camp Murray            | 1            | <i>Haliaeetus leucocephalus</i>            | Bald Eagle                | Contiguous            | T        | Bird         | No                               |
| ARNG  | Camp Navajo            | 2            | <i>Haliaeetus leucocephalus</i>            | Bald Eagle                | Onsite                | T        | Bird         | No                               |
|       |                        |              | <i>Strix occidentalis lucida</i>           | Mexican Spotted Owl       | Contiguous            | T        | Bird         | Yes                              |
| ARNG  | Camp Rilea             | 1            | <i>Brachyramphus marmoratus marmoratus</i> | Marbled Murrelet          | Contiguous            | T        | Bird         | No                               |
|       |                        |              | <i>Charadrius alexandrinus nivosus</i>     | Western Snowy Plover      | Contiguous            | T        | Bird         | No                               |
|       |                        |              | <i>Haliaeetus leucocephalus</i>            | Bald Eagle                | Onsite                | T        | Bird         | No                               |
|       |                        |              | <i>Pelecanus occidentalis</i>              | Brown Pelican             | Contiguous            | E        | Bird         | No                               |



| MACOM | Installation                  | USFWS Region | Scientific Name                      | Common Name                    | Onsite/Contiguous | FED Stat | Category     | Critical Habitat on Installation |
|-------|-------------------------------|--------------|--------------------------------------|--------------------------------|-------------------|----------|--------------|----------------------------------|
| ARNG  | Camp Rilea (cont.)            |              | Speyeria zerene hippolyta            | Oregon Silverspot Butterfly    | Onsite            | T        | Invertebrate | No                               |
|       |                               |              | Strix occidentalis caurina           | Northern Spotted Owl           | Contiguous        | T        | Bird         | No                               |
| ARNG  | Camp Ripley                   | 3            | Canis lupus                          | Gray Wolf                      | Onsite            | T        | Mammal       | Yes                              |
|       |                               |              | Haliaeetus leucocephalus             | Bald Eagle                     | Onsite            | T        | Bird         | No                               |
| ARNG  | Camp Roberts TS               | 1            | Branchinecta lynchi                  | Vernal Pool Fairy Shrimp       | Onsite            | T        | Invertebrate | No                               |
|       |                               |              | Chlorogalum purpureum var. purpureum | Purple Amole                   | Onsite            | T        | Plant        | No                               |
|       |                               |              | Gymnogyps californianus              | California Condor              | Onsite            | E        | Bird         | No                               |
|       |                               |              | Haliaeetus leucocephalus             | Bald Eagle                     | Onsite            | T        | Bird         | No                               |
|       |                               |              | Vireo bellii pusillus                | Least Bell's Vireo             | Contiguous        | E        | Bird         | No                               |
|       |                               |              | Vulpes macrotis mutica               | San Joaquin Kit Fox            | Onsite            | E        | Mammal       | No                               |
| ARNG  | Camp Robinson                 | 4            | Haliaeetus leucocephalus             | Bald Eagle                     | Contiguous        | T        | Bird         | No                               |
| ARNG  | Camp San Luis Obispo          | 1            | Cirsium fontinale obispoense         | Chorro Creek Bog Thistle       | Onsite            | E        | Plant        | No                               |
|       |                               |              | Gymnogyps californianus              | California Condor              | Onsite            | E        | Bird         | No                               |
|       |                               |              | Oncorhynchus mykiss                  | Steelhead                      | Onsite            | T        | Fish         | No                               |
|       |                               |              | Rana aurora draytonii                | California Red-legged Frog     | Onsite            | T        | Reptile      | No                               |
|       |                               |              | Vireo bellii pusillus                | Least Bell's Vireo             | Contiguous        | E        | Bird         | No                               |
| ARNG  | Camp Shelby                   | 4            | Alligator mississippiensis           | American Alligator             | Onsite            | T(S/A)   | Reptile      | No                               |
|       |                               |              | Fallicambarus gordoni                | Camp Shelby Burrowing Crayfish | Onsite            | C        | Invertebrate | No                               |
|       |                               |              | Gopherus polyphemus                  | Gopher Tortoise                | Onsite            | T        | Reptile      | No                               |
|       |                               |              | Isoetes louisianensis                | Louisiana Quillwort            | Onsite            | E        | Plant        | No                               |
|       |                               |              | Picoides borealis                    | Red-cockaded Woodpecker        | Contiguous        | E        | Bird         | No                               |
|       |                               |              | Pituophis melanoleucus lodingi       | Black Pine Snake               | Contiguous        | C        | Reptile      | No                               |
| ARNG  | Camp Smith TS                 | 5            | Acipenser brevirostrum               | Shortnose Sturgeon             | Contiguous        | E        | Fish         | No                               |
|       |                               |              | Haliaeetus leucocephalus             | Bald Eagle                     | Contiguous        | T        | Bird         | No                               |
| ARNG  | Camp Williams                 | 6            | Arctomecon humilis                   | Dwarf bear-poppy               | Onsite            | E        | Plant        | No                               |
|       |                               |              | Haliaeetus leucocephalus             | Bald Eagle                     | Contiguous        | T        | Bird         | No                               |
| ARNG  | Cedar City Armory             | 6            | Cynomys parvidens                    | Utah Prairie Dog               | Contiguous        | T        | Mammal       | No                               |
| ARNG  | Clark County TA               | 1            | Gopherus agassizii                   | Desert Tortoise                | Onsite            | T        | Reptile      | No                               |
| ARNG  | Florence Military Reservation | 2            | Glaucidium brasilianum cactorum      | Cactus Ferruginous Pygmy-owl   | Onsite            | E        | Bird         | Yes                              |
|       |                               |              | Gopherus agassizii                   | Desert Tortoise                | Onsite            | T (S/A)  | Reptile      | No                               |
| ARNG  | Fort Chaffee                  | 4            | Nicrophorus americanus               | American Burying Beetle        | Onsite            | E        | Invertebrate | No                               |
| ARNG  | Fort Harrison                 | 6            | Cynomys ludovicianus                 | Black-tailed Prairie Dog       | Onsite            | C        | Mammal       | No                               |
| ARNG  | Fort McClellan                | 4            | Marshallia mohrii                    | Mohr's Barbara's Buttons       | Onsite            | T        | Plant        | No                               |
|       |                               |              | Myotis grisescens                    | Gray Bat                       | Onsite            | E        | Mammal       | No                               |
|       |                               |              | Xyris tennesseensis                  | Tennessee Yellow-eyed Grass    | Onsite            | E        | Plant        | No                               |

| MACOM | Installation                  | USFWS Region | Scientific Name                   | Common Name                  | Onsite/Contiguous | FED Stat | Category     | Critical Habitat on Installation |
|-------|-------------------------------|--------------|-----------------------------------|------------------------------|-------------------|----------|--------------|----------------------------------|
| ARNG  | Fort Pickett                  | 5            | Percina rex                       | Roanoke Logperch             | Onsite            | E        | Fish         | No                               |
|       |                               |              | Rhus michauxii                    | Michaux's Sumac              | Onsite            | E        | Plant        | No                               |
| ARNG  | Fort Ruger                    | 1            | Fulica americana alai             | Hawaiian Coot                | Onsite            | E        | Bird         | No                               |
|       |                               |              | Gallinula chloropus sandvicensis  | Hawaiian Common Moorhen      | Onsite            | E        | Bird         | No                               |
| ARNG  | Hastings TS                   | 6            | Grus americana                    | Whooping Crane               | Contiguous        | E        | Bird         | Yes                              |
| ARNG  | Ike Skeleton TS               | 3            | Haliaeetus leucocephalus          | Bald Eagle                   | Onsite            | T        | Bird         | No                               |
|       |                               |              | Sterna antillarum                 | Least Tern                   | Onsite            | E        | Bird         | No                               |
| ARNG  | Kanaio WETS                   | 1            | Lasiurus cinereus semotus         | Hawaiian Hoary Bat           | Contiguous        | E        | Mammal       | No                               |
|       |                               |              | Manduca blackburni                | Blackburn's Sphinx Moth      | Onsite            | E        | Invertebrate | No                               |
|       |                               |              | Sesbania tomentosa                | 'Ohai                        | Onsite            | E        | Plant        | No                               |
| ARNG  | Keaukaha Military Reservation | 1            | Lasiurus cinereus semotus         | Hawaiian Hoary Bat           | Onsite            | E        | Mammal       | No                               |
| ARNG  | Leesburg TS                   | 4            | Echinacea laevigata               | Smooth Coneflower            | Onsite            | E        | Plant        | No                               |
|       |                               |              | Lysimachia asperulaefolia         | Rough-leaved Loosestrife     | Contiguous        | E        | Plant        | No                               |
|       |                               |              | Picoides borealis                 | Red-cockaded Woodpecker      | Onsite            | E        | Bird         | No                               |
| ARNG  | Lil Aaron Strauss Area        | 5            | Ptilimnium nodosum                | Harperella                   | Onsite            | E        | Plant        | No                               |
| ARNG  | Macon TS                      | 3            | Haliaeetus leucocephalus          | Bald Eagle                   | Onsite            | T        | Bird         | No                               |
|       |                               |              | Myotis sodalis                    | Indiana Bat                  | Contiguous        | E        | Mammal       | No                               |
| ARNG  | Marana SBAH Facilities        | 2            | Glauucidium brasilianum cactorum  | Cactus Ferruginous Pygmy-owl | Contiguous        | E        | Bird         | No                               |
|       |                               |              | Leptoncyteris curasoae yerbabuena | Lesser Long-nosed Bat        | Contiguous        | E        | Mammal       | No                               |
| ARNG  | New Hampshire NGTS            | 5            | Isotria medeoloides               | Small Whorled Pogonia        | Contiguous        | T        | Plant        | No                               |
| ARNG  | NH State Military Reservation | 5            | Lycaeides melissa samuelis        | Karner Blue Butterfly        | Contiguous        | E        | Invertebrate | No                               |
| ARNG  | Orchard Range TS              | 1            | Lepidium papilliferum             | Slick Spot Peppergrass       | Onsite            | C        | Plant        | No                               |
| ARNG  | Salina Smokey Hill TA         | 6            | Cynomys ludovicianus              | Black-tailed Prairie Dog     | Contiguous        | C        | Mammal       | No                               |
| ARNG  | Santa Cruz Armory             | 1            | Holocarpha macradenia             | Santa Cruz Tarplant          | Onsite            | T        | Plant        | No                               |
| ARNG  | Sheridan LTA                  | 6            | Cynomys ludovicianus              | Black-tailed Prairie Dog     | Onsite            | C        | Mammal       | No                               |
| ARNG  | St. George Armory             | 6            | Arctomecon humilis                | Dwarf bear-poppy             | Onsite            | E        | Plant        | No                               |
| ARNG  | STARC - AK                    | 7            | Somateria fischeri                | Spectacled Eider             | Contiguous        | T        | Bird         | No                               |
| ARNG  | STARC - TX                    | 2            | Vireo atricapillus                | Black-capped Vireo           | Onsite            | E        | Bird         | No                               |
| ARNG  | STARC-UT                      | 6            | Arctomecon humilis                | Dwarf bear-poppy             | Onsite            | E        | Plant        | No                               |
|       |                               |              | Haliaeetus leucocephalus          | Bald Eagle                   | Contiguous        | T        | Bird         | No                               |
| ARNG  | Stead TS                      | 1            | Haliaeetus leucocephalus          | Bald Eagle                   | Contiguous        | T        | Bird         | No                               |
| ARNG  | Truman Reservoir TS           | 3            | Haliaeetus leucocephalus          | Bald Eagle                   | Onsite            | T        | Bird         | No                               |
| ARNG  | TS Garrison                   | 6            | Charadrius melodus                | Piping Plover                | Contiguous        | T        | Bird         | No                               |

| MACOM   | Installation                   | USFWS Region | Scientific Name                        | Common Name                          | Onsite/<br>Contiguous | FED Stat | Category     | Critical Habitat on Installation |
|---------|--------------------------------|--------------|--|--------------------------------------|-----------------------|----------|--------------|----------------------------------|
| ARNG    | Tullahoma TS                   | 4            | <i>Helianthus eggertii</i>             | Eggert's sunflower                   | Onsite                | T        | Plant        | No                               |
|         |                                |              | <i>Myotis grisescens</i>               | Gray Bat                             | Contiguous            | E        | Mammal       | No                               |
| ARNG    | Ukumehame Range                | 1            | <i>Himantopus mexicanus knudseni</i>   | Hawaiian Stilt                       | Onsite                | E        | Bird         | No                               |
| ARNG    | W.H. Ford Regional TC          | 4            | <i>Myotis grisescens</i>               | Gray Bat                             | Onsite                | E        | Mammal       | No                               |
| ARNG    | Wisconsin Military Reservation | 3            | <i>Lycaeides melissa samuelis</i>      | Karner Blue Butterfly                | Contiguous            | E        | Invertebrate | No                               |
| ATEC    | White Sands Missile Range      | 2            | <i>Canis lupus baileyi</i>             | Mexican Gray Wolf                    | Contiguous            | E        | Mammal       | No                               |
|         |                                |              | <i>Charadrius melodus</i>              | Piping Plover                        | Contiguous            | T        | Bird         | No                               |
|         |                                |              | <i>Charadrius montanus</i>             | Mountain Plover                      | Onsite                | T        | Bird         | No                               |
|         |                                |              | <i>Cynomys ludovicianus</i>            | Black-tailed Prairie Dog             | Contiguous            | C        | Mammal       | No                               |
|         |                                |              | <i>Empidonax traillii extimus</i>      | Southwestern Willow Flycatcher       | Contiguous            | E        | Bird         | No                               |
|         |                                |              | <i>Falco femoralis septentrionalis</i> | Northern Aplomado Falcon             | Onsite                | E        | Bird         | No                               |
|         |                                |              | <i>Grus americana</i>                  | Whooping Crane                       | Contiguous            | E        | Bird         | No                               |
|         |                                |              | <i>Gymnogyps californianus</i>         | California Condor                    | Contiguous            | E        | Bird         | No                               |
|         |                                |              | <i>Haliaeetus leucocephalus</i>        | Bald Eagle                           | Onsite                | T        | Bird         | No                               |
|         |                                |              | <i>Hedeoma todsenii</i>                | Todsen's Pennyroyal                  | Onsite                | E        | Plant        | Yes                              |
|         |                                |              | <i>Mustela nigripes</i>                | Black-footed Ferret                  | Contiguous            | E        | Mammal       | No                               |
|         |                                |              | <i>Sterna antillarum</i>               | Least Tern                           | Onsite                | E        | Bird         | No                               |
|         |                                |              | <i>Strix occidentalis lucida</i>       | Mexican Spotted Owl                  | Onsite                | T        | Bird         | No                               |
| FORSCOM | Fort Bragg                     | 4            | <i>Lysimachia asperulaefolia</i>       | Rough-leaved Loosestrife             | Contiguous            | E        | Plant        | No                               |
|         |                                |              | <i>Neonympha mitchellii francisci</i>  | Saint Francis' Satyr Butterfly       | Onsite                | E        | Invertebrate | No                               |
|         |                                |              | <i>Picoides borealis</i>               | Red-cockaded Woodpecker              | Onsite                | E        | Bird         | No                               |
|         |                                |              | <i>Rhus michauxii</i>                  | Michaux's Sumac                      | Contiguous            | E        | Plant        | No                               |
|         |                                |              | <i>Schwalbea americana</i>             | American Chaffseed                   | Contiguous            | E        | Plant        | No                               |
| FORSCOM | Fort Campbell                  | 4            | <i>Apios priceana</i>                  | Price's Potato-bean                  | Contiguous            | T        | Plant        | No                               |
|         |                                |              | <i>Dromus dromas</i>                   | Dromedary Pearlymussel               | Contiguous            | E        | Clam         | No                               |
|         |                                |              | <i>Epioblasma walkeri</i>              | Tan Riffleshell                      | Contiguous            | E        | Clam         | No                               |
|         |                                |              | <i>Lampsilis abrupta</i>               | Pink Mucket Pearlymussel             | Contiguous            | E        | Clam         | No                               |
|         |                                |              | <i>Myotis grisescens</i>               | Gray Bat                             | Onsite                | E        | Mammal       | No                               |
|         |                                |              | <i>Myotis sodalis</i>                  | Indiana Bat                          | Onsite                | E        | Mammal       | No                               |
|         |                                |              | <i>Nerodia erythrogaster neglecta</i>  | Northern Copperbelly Water Snake     | Contiguous            | T        | Reptile      | No                               |
|         |                                |              | <i>Obovaria retusa</i>                 | Ring Pink Mussel                     | Contiguous            | E        | Clam         | No                               |
|         |                                |              | <i>Plethobasus cooperianus</i>         | Orange-foot Pimple Back Pearlymussel | Contiguous            | E        | Clam         | No                               |
|         |                                |              | <i>Pleurobema plenum</i>               | Rough Pigtoe                         | Contiguous            | E        | Clam         | No                               |
|         |                                |              | <i>Quadrula fragosa</i>                | Winged Mapleleaf Mussel              | Contiguous            | E        | Clam         | No                               |

| MACOM   | Installation           | USFWS Region | Scientific Name                    | Common Name                   | Onsite/Contiguous | FED Stat | Category     | Critical Habitat on Installation |
|---------|------------------------|--------------|------------------------------------|-------------------------------|-------------------|----------|--------------|----------------------------------|
| FORSCOM | Fort Carson            | 6            | <i>Charadrius montanus</i>         | Mountain Plover               | Onsite            | PT       | Bird         | No                               |
|         |                        |              | <i>Etheostoma cragini</i>          | Arkansas Darter               | Onsite            | C        | Fish         | No                               |
|         |                        |              | <i>Haliaeetus leucocephalus</i>    | Bald Eagle                    | Onsite            | T        | Bird         | No                               |
|         |                        |              | <i>Oncorhynchus clarki stomias</i> | Greenback Cutthroat Trout     | Onsite            | T        | Fish         | No                               |
|         |                        |              | <i>Spiranthes diluvialis</i>       | Ute Ladies'-tresses           | Contiguous        | T        | Plant        | No                               |
|         |                        |              | <i>Strix occidentalis lucida</i>   | Mexican Spotted Owl           | Onsite            | T        | Bird         | No                               |
|         |                        |              | <i>Zapus hudsonius preblei</i>     | Preble's Meadow Jumping Mouse | Contiguous        | T        | Mammal       | No                               |
| FORSCOM | Fort Drum              | 5            | <i>Myotis sodalis</i>              | Indiana Bat                   | Contiguous        | E        | Mammal       | No                               |
| FORSCOM | Fort Hood              | 2            | <i>Dendroica chrysoparia</i>       | Golden-cheeked Warbler        | Onsite            | E        | Bird         | No                               |
|         |                        |              | <i>Vireo atricapillus</i>          | Black-capped Vireo            | Onsite            | E        | Bird         | No                               |
| FORSCOM | Fort Irwin             | 1            | <i>Astragalus jaegerianus</i>      | Lane Mountain Milk-vetch      | Onsite            | E        | Plant        | No                               |
|         |                        |              | <i>Gopherus agassizii</i>          | Desert Tortoise               | Onsite            | E        | Reptile      | Yes                              |
| FORSCOM | Fort Lewis             | 1            | <i>Haliaeetus leucocephalus</i>    | Bald Eagle                    | Onsite            | T        | Bird         | No                               |
|         |                        |              | <i>Howellia aquatilis</i>          | Water Howellia                | Onsite            | T        | Plant        | No                               |
|         |                        |              | <i>Strix occidentalis caurina</i>  | Northern Spotted Owl          | Contiguous        | T        | Bird         | Yes                              |
| FORSCOM | Fort Polk              | 4            | <i>Picoides borealis</i>           | Red-cockaded Woodpecker       | Onsite            | E        | Bird         | No                               |
| FORSCOM | Fort Riley             | 6            | <i>Charadrius melodus</i>          | Piping Plover                 | Onsite            | T        | Bird         | No                               |
|         |                        |              | <i>Haliaeetus leucocephalus</i>    | Bald Eagle                    | Onsite            | T        | Bird         | No                               |
|         |                        |              | <i>Notropis topeka</i>             | Topeka Shiner                 | Onsite            | E        | Fish         | No                               |
|         |                        |              | <i>Sterna antillarum</i>           | Least Tern                    | Onsite            | E        | Bird         | No                               |
| FORSCOM | Fort Stewart           | 4            | <i>Acipenser brevirostrum</i>      | Shortnose Sturgeon            | Onsite            | E        | Fish         | No                               |
|         |                        |              | <i>Ambystoma Cingulatum</i>        | Flatwoods Salamander          | Onsite            | T        | Amphibian    | No                               |
|         |                        |              | <i>Drymarchon corais couperi</i>   | Eastern Indigo Snake          | Onsite            | T        | Reptile      | No                               |
|         |                        |              | <i>Mycteria americana</i>          | Wood Stork                    | Onsite            | E        | Bird         | No                               |
|         |                        |              | <i>Picoides borealis</i>           | Red-cockaded Woodpecker       | Onsite            | E        | Bird         | No                               |
| FORSCOM | Pinyon Canyon          | 6            | <i>Cynomys ludovicianus</i>        | Black-tailed Prairie Dog      | Onsite            | C        | Mammal       | No                               |
| FORSCOM | Yakima Training Center | 1            | <i>Erigeron basalticus</i>         | Basalt Daisy                  | Onsite            | C        | Plant        | No                               |
|         |                        |              | <i>Haliaeetus leucocephalus</i>    | Bald Eagle                    | Onsite            | T        | Bird         | No                               |
| MDW     | Fort A.P. Hill         | 5            | <i>Haliaeetus leucocephalus</i>    | Bald Eagle                    | Onsite            | T        | Bird         | No                               |
|         |                        |              | <i>Helonias bullata</i>            | Swamp Pink                    | Onsite            | T        | Plant        | No                               |
|         |                        |              | <i>Isotria medeoloides</i>         | Small Whorled Pogonia         | Onsite            | T        | Plant        | No                               |
| MDW     | Fort Belvoir           | 5            | <i>Haliaeetus leucocephalus</i>    | Bald Eagle                    | Onsite            | T        | Bird         | No                               |
| MEDCOM  | Camp Bullis            | 2            | <i>Cicurina madla</i>              | Madla's Cave Spider           | Onsite            | E        | Invertebrate | No                               |
|         |                        |              | <i>Dendroica chrysoparia</i>       | Golden-cheeked Warbler        | Onsite            | E        | Bird         | No                               |
|         |                        |              | <i>Rhadine exilis</i>              | Rhadine exilis                | Onsite            | E        | Invertebrate | No                               |
|         |                        |              | <i>Rhadine infernalis</i>          | Rhadine infernalis            | Onsite            | E        | Invertebrate | No                               |
|         |                        |              | <i>Vireo atricapillus</i>          | Black-capped Vireo            | Onsite            | E        | Bird         | No                               |

| MACOM  | Installation                        | USFWS Region | Scientific Name                       | Common Name                    | Onsite/Contiguous | FED Stat | Category     | Critical Habitat on Installation |
|--------|-------------------------------------|--------------|---------------------------------------|--------------------------------|-------------------|----------|--------------|----------------------------------|
| MEDCOM | Fort Sam Houston                    | 2            | Cicurina madla                        | Madla's Cave Spider            | Onsite            | E        | Invertebrate | No                               |
|        |                                     |              | Dendroica chrysoparia                 | Golden-cheeked Warbler         | Onsite            | E        | Bird         | No                               |
|        |                                     |              | Vireo atricapillus                    | Black-capped Vireo             | Onsite            | E        | Bird         | No                               |
| MTMC   | Military Ocean Terminal-Sunny Point | 4            | Acipenser brevirostrum                | Shortnose Sturgeon             | Contiguous        | E        | Fish         | No                               |
|        |                                     | 4            | Alligator mississippiensis            | American Alligator             | Onsite            | T(S/A)   | Reptile      | No                               |
|        |                                     | 4            | Caretta caretta                       | Loggerhead Sea Turtle          | Contiguous        | T        | Reptile      | No                               |
|        |                                     | 4            | Charadrius melodus                    | Piping Plover                  | Contiguous        | T        | Bird         | No                               |
|        |                                     | 4            | Chelonia mydas                        | Green Sea Turtle               | Contiguous        | T        | Reptile      | No                               |
|        |                                     | 4            | Dermochelys coriacea                  | Leatherback Sea Turtle         | Contiguous        | E        | Reptile      | No                               |
|        |                                     | 4            | Felis concolor                        | Mountain Lion                  | Onsite            | T (S/A)  | Mammal       | No                               |
|        |                                     | 4            | Haliaeetus leucocephalus              | Bald Eagle                     | Contiguous        | T        | Bird         | No                               |
|        |                                     | 4            | Lepidochelys kempii                   | Kemp's Ridley Sea Turtle       | Contiguous        | E        | Reptile      | No                               |
|        |                                     | 4            | Lysimachia asperulaefolia             | Rough-leaved Loosestrife       | Onsite            | E        | Plant        | No                               |
|        |                                     | 4            | Picoides borealis                     | Red-cockaded Woodpecker        | Onsite            | E        | Bird         | No                               |
|        |                                     | 4            | Thalictrum cooleyi                    | Cooley's Meadowrue             | Contiguous        | E        | Plant        | No                               |
|        |                                     | 4            | Trichechus manatus                    | West Indian Manatee            | Contiguous        | E        | Mammal       | No                               |
| TRADOC | Fort Benning                        | 4            | Alligator mississippiensis            | American Alligator             | Onsite            | T(S/A)   | Reptile      | No                               |
|        |                                     |              | Haliaeetus leucocephalus              | Bald Eagle                     | Onsite            | T        | Bird         | No                               |
|        |                                     |              | Mycteria americana                    | Wood Stork                     | Onsite            | E        | Bird         | No                               |
|        |                                     |              | Picoides borealis                     | Red-cockaded Woodpecker        | Onsite            | E        | Bird         | No                               |
|        |                                     |              | Trillium reliquum                     | Relict Trillium                | Onsite            | E        | Plant        | No                               |
| TRADOC | Fort Bliss                          | 2            | Coryphantha sneedii var. sneedii      | Sneed Pincushion Cactus        | Onsite            | E        | Plant        | No                               |
|        |                                     |              | Falco femoralis septentrionalis       | Northern Aplomado Falcon       | Onsite            | E        | Bird         | No                               |
|        |                                     |              | Haliaeetus leucocephalus              | Bald Eagle                     | Onsite            | T        | Bird         | No                               |
| TRADOC | Fort Eustis                         | 5            | Haliaeetus leucocephalus              | Bald Eagle                     | Onsite            | T        | Bird         | No                               |
| TRADOC | Fort Gordon                         | 4            | Haliaeetus leucocephalus              | Bald Eagle                     | Onsite            | T        | Bird         | No                               |
|        |                                     |              | Mycteria americana                    | Wood Stork                     | Onsite            | E        | Bird         | No                               |
|        |                                     |              | Picoides borealis                     | Red-cockaded Woodpecker        | Onsite            | E        | Bird         | No                               |
| TRADOC | Fort Huachuca                       | 2            | Ambystoma tigrinum stebbinsi          | Sonoran Tiger Salamander       | Onsite            | E        | Amphibian    | No                               |
|        |                                     |              | Empidonax traillii extimus            | Southwestern Willow Flycatcher | Contiguous        | E        | Bird         | Yes                              |
|        |                                     |              | Erigeron lemmonii                     | Lemmon Fleabane                | Onsite            | C        | Plant        | No                               |
|        |                                     |              | Leptonycteris curasoae yerbabuena     | Lesser Long-nosed Bat          | Onsite            | E        | Mammal       | No                               |
|        |                                     |              | Lilaeopsis schaffneriana ssp. curvata | Huachuca Water-umbel           | Onsite            | E        | Plant        | Yes                              |
|        |                                     |              | Pyrgulopsis thompsoni                 | Huachuca Springsnail           | Onsite            | C        | Snail        | No                               |
|        |                                     |              | Spiranthes delitescens                | Canelo Hills Ladies'-tresses   | Contiguous        | E        | Plant        | No                               |

| MACOM  | Installation               | USFWS Region | Scientific Name                                    | Common Name                 | Onsite/<br>Contiguous | FED Stat | Category     | Critical Habitat on Installation |
|--------|----------------------------|--------------|--|-----------------------------|-----------------------|----------|--------------|----------------------------------|
|        |                            |              | <i>Strix occidentalis lucida</i>                   | Mexican Spotted Owl         | Onsite                | T        | Bird         | Yes                              |
| TRADOC | Fort Jackson               | 4            | <i>Echinacea laevigata</i>                         | Smooth Coneflower           | Onsite                | E        | Plant        | No                               |
|        |                            |              | <i>Lysimachia asperulaefolia</i>                   | Rough-leaved Loosestrife    | Onsite                | E        | Plant        | No                               |
|        |                            |              | <i>Picoides borealis</i>                           | Red-cockaded Woodpecker     | Onsite                | E        | Bird         | No                               |
| TRADOC | Fort Knox                  | 4            | <i>Haliaeetus leucocephalus</i>                    | Bald Eagle                  | Contiguous            | T        | Bird         | No                               |
|        |                            |              | <i>Myotis grisescens</i>                           | Gray Bat                    | Onsite                | E        | Mammal       | No                               |
|        |                            |              | <i>Myotis sodalis</i>                              | Indiana Bat                 | Onsite                | E        | Mammal       | No                               |
| TRADOC | Fort Leavenworth           | 6            | <i>Haliaeetus leucocephalus</i>                    | Bald Eagle                  | Onsite                | T        | Bird         | No                               |
| TRADOC | Fort Lee                   | 5            | <i>Haliaeetus leucocephalus</i>                    | Bald Eagle                  | Onsite                | T        | Bird         | No                               |
| TRADOC | Fort Leonard Wood          | 3            | <i>Haliaeetus leucocephalus</i>                    | Bald Eagle                  | Onsite                | T        | Bird         | No                               |
|        |                            |              | <i>Myotis grisescens</i>                           | Gray Bat                    | Onsite                | E        | Mammal       | No                               |
|        |                            |              | <i>Myotis sodalis</i>                              | Indiana Bat                 | Onsite                | E        | Mammal       | No                               |
| TRADOC | Fort Rucker                | 4            | <i>Alligator mississippiensis</i>                  | American Alligator          | Onsite                | T(S/A)   | Reptile      | No                               |
|        |                            |              | <i>Haliaeetus leucocephalus</i>                    | Bald Eagle                  | Contiguous            | T        | Bird         | No                               |
|        |                            |              | <i>Myotis grisescens</i>                           | Gray Bat                    | Contiguous            | E        | Mammal       | No                               |
| TRADOC | Fort Sill                  | 2            | <i>Vireo atricapillus</i>                          | Black-capped Vireo          | Onsite                | E        | Bird         | No                               |
| TRADOC | Presidio of Monterey       | 1            | <i>Piperia yadonii</i>                             | Yadon's Piperia             | Onsite                | E        | Plant        | No                               |
| TRADOC | Presidio of Monterey Annex | 1            | <i>Charadrius alexandrinus nivosus</i>             | Western Snowy Plover        | Onsite                | T        | Bird         | Yes                              |
|        |                            |              | <i>Chorizanthe pungens</i> var. <i>pungens</i>     | Monterey Spineflower        | Onsite                | T        | Plant        | No                               |
|        |                            |              | <i>Euphilotes enoptes smithi</i>                   | Smith's Blue Butterfly      | Onsite                | E        | Invertebrate | No                               |
|        |                            |              | <i>Gilia tenuiflora</i> ssp. <i>arenaria</i>       | Monterey Gilia              | Onsite                | E        | Plant        | No                               |
|        |                            |              | <i>Lasthenia conjugens</i>                         | Contra Costa Goldfields     | Onsite                | E        | Plant        | No                               |
|        |                            |              | <i>Rana aurora draytonii</i>                       | California Red-legged Frog  | Onsite                | T        | Amphibian    | No                               |
| USARC  | 63RD RSC HQ                | 1            | <i>Chorizanthe pungens</i> var. <i>pungens</i>     | Monterey Spineflower        | Onsite                | T        | Plant        | No                               |
| USARC  | 70TH RSC HQ                | 1            | <i>Oncorhynchus tshawytscha</i>                    | Chinook Salmon              | Contiguous            | T        | Fish         | No                               |
| USARC  | 81ST RSC HQ                | 4            | <i>Chamaesyce deltoidea</i> ssp. <i>deltoidea</i>  | Deltoid Spurge              | Onsite                | E        | Plant        | No                               |
| USARC  | Devens RFTA                | 5            | <i>Haliaeetus leucocephalus</i>                    | Bald Eagle                  | Contiguous            | T        | Bird         | No                               |
| USARC  | Fort Hunter Liggett        | 1            | <i>Ambystoma californiense</i>                     | California Tiger Salamander | Onsite                | C        | Amphibian    | No                               |
|        |                            |              | <i>Branchinecta lynchi</i>                         | Vernal Pool Fairy Shrimp    | Onsite                | T        | Invertebrate | No                               |
|        |                            |              | <i>Bufo microscaphus californicus</i>              | Arroyo Southwestern Toad    | Onsite                | E        | Amphibian    | No                               |
|        |                            |              | <i>Chlorogalum purpureum</i> var. <i>purpureum</i> | Purple Amole                | Onsite                | T        | Plant        | No                               |
|        |                            |              | <i>Gymnogyps californianus</i>                     | California Condor           | Contiguous            | E        | Bird         | No                               |
|        |                            |              | <i>Haliaeetus leucocephalus</i>                    | Bald Eagle                  | Onsite                | T        | Bird         | No                               |
|        |                            |              | <i>Rana aurora draytonii</i>                       | California Red-legged Frog  | Contiguous            | T        | Amphibian    | No                               |
|        |                            |              | <i>Vireo bellii pusillus</i>                       | Least Bell's Vireo          | Contiguous            | E        | Bird         | No                               |

| MACOM                     | Installation                    | USFWS Region | Scientific Name                  | Common Name                | Onsite/Contiguous | FED Stat | Category     | Critical Habitat on Installation |
|---------------------------|---------------------------------|--------------|----------------------------------|----------------------------|-------------------|----------|--------------|----------------------------------|
|                           |                                 |              | Vulpes macrotis mutica           | San Joaquin Kit Fox        | Onsite            | E        | Mammal       | No                               |
| USARC                     | Fort McCoy                      | 3            | Canis lupus                      | Gray Wolf                  | Onsite            | E        | Mammal       | No                               |
|                           |                                 |              | Haliaeetus leucocephalus         | Bald Eagle                 | Contiguous        | T        | Bird         | No                               |
|                           |                                 |              | Lycaeides melissa samuelis       | Karner Blue Butterfly      | Onsite            | E        | Invertebrate | No                               |
| USARC                     | Parks RFTA                      | 1            | Rana aurora draytonii            | California Red-legged Frog | Onsite            | T        | Amphibian    | No                               |
| USARPAC                   | Dillingham Military Reservation | 1            | Anas wyvilliana                  | Hawaiian Duck              | Onsite            | E        | Bird         | No                               |
|                           |                                 |              | Fulica americana alai            | Hawaiian Coot              | Onsite            | E        | Bird         | No                               |
|                           |                                 |              | Gallinula chloropus sandvicensis | Hawaiian Common Moorhen    | Onsite            | E        | Bird         | No                               |
|                           |                                 |              | Hibiscus brackenridgei           | Ma`o hau hele              | Contiguous        | E        | Plant        | No                               |
|                           |                                 |              | Himantopus mexicanus knudseni    | Hawaiian Stilt             | Onsite            | E        | Bird         | No                               |
|                           |                                 |              | Nototrichium humile              | Kulu`i                     | Contiguous        | E        | Plant        | No                               |
|                           |                                 |              | Schiedea kealiae                 | Ma`oli`oli                 | Onsite            | E        | Plant        | No                               |
| USARPAC                   | Kahuku TA                       | 1            | Achatinella curta                | Pupu kuahiwi               | Onsite            | E        | Snail        | No                               |
|                           |                                 |              | Achatinella sowerbyana           | Pupu kuahiwi               | Onsite            | E        | Snail        | No                               |
|                           |                                 |              | Cyanea koolauensis               | Haha                       | Onsite            | E        | Plant        | No                               |
|                           |                                 |              | Eugenia koolauensis              | Nioi                       | Onsite            | E        | Plant        | No                               |
|                           |                                 |              | Gardenia mannii                  | Nanu                       | Onsite            | E        | Plant        | No                               |
|                           |                                 |              | Hesperomannia arborescens        | None                       | Onsite            | E        | Plant        | No                               |
|                           |                                 |              | Paroreomyza maculata             | Oahu Creeper               | Onsite            | E        | Bird         | No                               |
|                           |                                 |              | Phyllostegia hirsuta             | None                       | Onsite            | E        | Plant        | No                               |
| Tetraplasandra gymnocarpa | `Ohe`ohe                        | Onsite       | E                                | Plant                      | No                |          |              |                                  |
| USARPAC                   | Kawailoa TA                     | 1            | Achatinella apexfulva            | Pupu kuahiwi               | Onsite            | E        | Snail        | No                               |
|                           |                                 |              | Achatinella byronii              | Pupu kuahiwi               | Onsite            | E        | Snail        | No                               |
|                           |                                 |              | Achatinella curta                | Pupu kuahiwi               | Onsite            | E        | Snail        | No                               |
|                           |                                 |              | Achatinella decipiens            | Pupu kuahiwi               | Onsite            | E        | Snail        | No                               |
|                           |                                 |              | Achatinella leucorraphe          | Pupu kuahiwi               | Onsite            | E        | Snail        | No                               |
|                           |                                 |              | Achatinella lila                 | Pupu kuahiwi               | Onsite            | E        | Snail        | No                               |
|                           |                                 |              | Achatinella livida               | Pupu kuahiwi               | Onsite            | E        | Snail        | No                               |
|                           |                                 |              | Achatinella pulcherrima          | Pupu kuahiwi               | Onsite            | E        | Snail        | No                               |
|                           |                                 |              | Achatinella sowerbyana           | Pupu kuahiwi               | Onsite            | E        | Snail        | No                               |
|                           |                                 |              | Chamaesyce rockii                | `Akoko                     | Onsite            | E        | Plant        | No                               |
|                           |                                 |              | Cyanea acuminata                 | Haha                       | Onsite            | E        | Plant        | No                               |
|                           |                                 |              | Cyanea crispa                    | None                       | Onsite            | E        | Plant        | No                               |
|                           |                                 |              | Cyanea koolauensis               | Haha                       | Onsite            | E        | Plant        | No                               |
|                           |                                 |              | Cyanea st-johnii                 | Haha                       | Onsite            | E        | Plant        | No                               |
|                           |                                 |              | Cyrtandra viridiflora            | Ha`iwale                   | Onsite            | E        | Plant        | No                               |
|                           |                                 |              | Gardenia mannii                  | Nanu                       | Onsite            | E        | Plant        | No                               |

| MACOM   | Installation               | USFWS Region | Scientific Name                      | Common Name        | Onsite/Contiguou<br>s | FED Stat | Category | Critical Habitat on Installation |
|---------|----------------------------|--------------|--------------------------------------|--------------------|-----------------------|----------|----------|----------------------------------|
|         |                            |              | Hesperomannia arborescens            | None               | Onsite                | E        | Plant    | No                               |
|         |                            |              | Lasiurus cinereus semotus            | Hawaiian Hoary Bat | Onsite                | E        | Mammal   | No                               |
|         |                            |              | Melicope lydgatei                    | Alani              | Onsite                | E        | Plant    | No                               |
|         |                            |              | Myrsine juddii                       | Kolea              | Onsite                | E        | Plant    | No                               |
|         |                            |              | Paroreomyza maculata                 | Oahu Creeper       | Onsite                | E        | Bird     | No                               |
|         |                            |              | Phlegmariusus nutans                 | Wawae`iole         | Onsite                | E        | Plant    | No                               |
|         |                            |              | Phyllostegia hirsuta                 | None               | Onsite                | E        | Plant    | No                               |
|         |                            |              | Pteris lidgatei                      | None               | Onsite                | E        | Plant    | No                               |
|         |                            |              | Sanicula purpurea                    | None               | Onsite                | E        | Plant    | No                               |
|         |                            |              | Tetraplasandra gymnocarpa            | `Ohe`ohe           | Onsite                | E        | Plant    | No                               |
|         |                            |              | Viola oahuensis                      | None               | Onsite                | E        | Plant    | No                               |
| USARPAC | Makua Military Reservation | 1            | Achatinella mustelina                | Pupu kuahiwi       | Onsite                | E        | Snail    | No                               |
|         |                            |              | Alectryon macrococcus                | Mahoe              | Onsite                | E        | Plant    | No                               |
|         |                            |              | Alsinidendron obovatum               | None               | Onsite                | E        | Plant    | No                               |
|         |                            |              | Bonamia menziesii                    | None               | Onsite                | E        | Plant    | No                               |
|         |                            |              | Cenchrus agrimonioides               | Kamanomano         | Onsite                | E        | Plant    | No                               |
|         |                            |              | Chamaesyce celastroides var. kaenana | `Akoko             | Onsite                | E        | Plant    | No                               |
|         |                            |              | Chasiempis sandwichensis ibidus      | Oahu Elepaio       | Onsite                | E        | Bird     | No                               |
|         |                            |              | Ctenitis squamigera                  | Pauoa              | Onsite                | E        | Plant    | No                               |
|         |                            |              | Cyanea superba                       | Haha               | Onsite                | E        | Plant    | No                               |
|         |                            |              | Cyrtandra dentata                    | Ha`iwale           | Onsite                | E        | Plant    | No                               |
|         |                            |              | Delissea subcordata                  | `Oha               | Onsite                | E        | Plant    | No                               |
|         |                            |              | Diellia falcata                      | None               | Onsite                | E        | Plant    | No                               |
|         |                            |              | Dubautia herbstobatae                | Na`ena`e           | Onsite                | E        | Plant    | No                               |
|         |                            |              | Euphorbia haeleeleana                | `Akoko             | Onsite                | E        | Plant    | No                               |
|         |                            |              | Flueggea neowawraea                  | Mehamehame         | Onsite                | E        | Plant    | No                               |
|         |                            |              | Hedyotis parvula                     | None               | Onsite                | E        | Plant    | No                               |
|         |                            |              | Lasiurus cinereus semotus            | Hawaiian Hoary Bat | Onsite                | E        | Mammal   | No                               |
|         |                            |              | Lepidium arbuscula                   | `Anaunau           | Onsite                | E        | Plant    | No                               |
|         |                            |              | Lipochaeta tenuifolia                | Nehe               | Onsite                | E        | Plant    | No                               |
|         |                            |              | Lobelia niihauensis                  | None               | Onsite                | E        | Plant    | No                               |
|         |                            |              | Lobelia oahuensis                    | None               | Onsite                | E        | Plant    | No                               |
|         |                            |              | Neraudia angulata var angulata       | Ma`aloa            | Onsite                | E        | Plant    | No                               |
|         |                            |              | Neraudia angulata var dentata        | Ma`aloa            | Onsite                | E        | Plant    | No                               |
|         |                            |              | Nototrichium humile                  | Kulu`i             | Onsite                | E        | Plant    | No                               |
|         |                            |              | Paroreomyza maculata                 | Oahu Creeper       | Onsite                | E        | Bird     | No                               |
|         |                            |              | Plantago princeps var princeps       | Laukahi kuahiwi    | Onsite                | E        | Plant    | No                               |
|         |                            |              | Pritchardia kaalae                   | Loulu              | Onsite                | E        | Plant    | No                               |



| MACOM   | Installation                            | USFWS Region | Scientific Name                                      | Common Name                 | Onsite/Contiguous | FED Stat | Category | Critical Habitat on Installation |
|---------|---|--------------|--|-----------------------------|-------------------|----------|----------|----------------------------------|
|         |   |              | <i>Sanicula mariversa</i>                            | None                        | Onsite            | E        | Plant    | No                               |
|         |   |              | <i>Schiedea hookeri</i>                              | None                        | Onsite            | E        | Plant    | No                               |
|         |   |              | <i>Schiedea nuttallii</i>                            | None                        | Onsite            | E        | Plant    | No                               |
|         |   |              | <i>Silene lanceolata</i>                             | None                        | Onsite            | E        | Plant    | No                               |
|         |   |              | <i>Spermolepis hawaiiensis</i>                       | None                        | Onsite            | E        | Plant    | No                               |
|         |   |              | <i>Tetramolopium filiforme</i>                       | None                        | Onsite            | E        | Plant    | No                               |
|         |   |              | <i>Viola chamissoniana</i> ssp. <i>chamissoniana</i> | Pamakani                    | Onsite            | E        | Plant    | No                               |
| USARPAC | Pohakuloa TA                            | 1            | <i>Asplenium fragile</i> var. <i>insulare</i>        | Fragile Fern                | Onsite            | E        | Plant    | No                               |
|         |   |              | <i>Buteo solitarius</i>                              | Hawaiian Hawk               | Onsite            | E        | Bird     | No                               |
|         |   |              | <i>Corvus hawaiiensis</i>                            | Hawaiian Crow               | Contiguous        | E        | Bird     | No                               |
|         |   |              | <i>Haplostachys haplostachya</i>                     | Hawaiian Mint               | Onsite            | E        | Plant    | No                               |
|         |   |              | <i>Hedyotis coriacea</i>                             | Kio`ele                     | Onsite            | E        | Plant    | No                               |
|         |   |              | <i>Hemignathus munroi</i>                            | `Akiapola`au                | Onsite            | E        | Bird     | No                               |
|         |   |              | <i>Lasiurus cinereus semotus</i>                     | Hawaiian Hoary Bat          | Onsite            | E        | Mammal   | No                               |
|         |   |              | <i>Loxioides bailleui</i>                            | Palila                      | Onsite            | E        | Bird     | No                               |
|         |   |              | <i>Loxops coccineus coccineus</i>                    | Hawaii `Akepa               | Contiguous        | E        | Bird     | No                               |
|         |   |              | <i>Neraudia ovata</i>                                | Ma`aloa                     | Onsite            | E        | Plant    | No                               |
|         |   |              | <i>Nesochen sandvicensis</i>                         | Hawaiian Goose              | Onsite            | E        | Bird     | No                               |
|         |   |              | <i>Oreomystis mana</i>                               | Hawaii Creeper              | Onsite            | E        | Bird     | No                               |
|         |   |              | <i>Portulaca sclerocarpa</i>                         | Po`e                        | Onsite            | E        | Plant    | No                               |
|         |   |              | <i>Pterodroma phaeopygia sandwichensis</i>           | Hawaiian Dark-rumped Petrel | Onsite            | E        | Bird     | No                               |
|         |   |              | <i>Silene hawaiiensis</i>                            | Hawaiian Catchfly           | Onsite            | T        | Plant    | No                               |
|         |   |              | <i>Silene lanceolata</i>                             | Lance-leaf Catchfly         | Onsite            | E        | Plant    | No                               |
|         |   |              | <i>Solanum incompletum</i>                           | Popolo ku mai               | Onsite            | E        | Plant    | No                               |
|         |   |              | <i>Spermolepis hawaiiensis</i>                       | Hawaiian Parsley            | Onsite            | E        | Plant    | No                               |
|         |   |              | <i>Stenogyne angustifolia</i>                        | Creeping Mint               | Onsite            | E        | Plant    | No                               |
|         |   |              | <i>Tetramolopium arenarium</i>                       | Mauna Kea Pamakani          | Onsite            | E        | Plant    | No                               |
|         |   |              | <i>Zanthoxylum hawaiiense</i>                        | A`e                         | Onsite            | E        | Plant    | No                               |
| USARPAC | Schofield Barracks Military Reservation | 1            | <i>Abutilon sandwicense</i>                          | None                        | Contiguous        | E        | Plant    | No                               |
|         |   |              | <i>Achatinella mustelina</i>                         | Pupu kuahiwi                | Onsite            | E        | Snail    | No                               |
|         |   |              | <i>Achatinella byronii</i>                           | Pupu kuahiwi                | Onsite            | E        | Snail    | No                               |
|         |   |              | <i>Achatinella decipiens</i>                         | Pupu kuahiwi                | Onsite            | E        | Snail    | No                               |
|         |   |              | <i>Achatinella leucorraphe</i>                       | Pupu kuahiwi                | Onsite            | E        | Snail    | No                               |
|         |   |              | <i>Achatinella sowerbyana</i>                        | Pupu kuahiwi                | Onsite            | E        | Snail    | No                               |
|         |   |              | <i>Alectryon macrococcus</i>                         | Mahoe                       | Onsite            | E        | Plant    | No                               |
|         |   |              | <i>Alsinidendron trinerve</i>                        | None                        | Onsite            | E        | Plant    | No                               |
|         |   |              | <i>Chamaesyce rockii</i>                             | `Akoko                      | Onsite            | E        | Plant    | No                               |

| MACOM  | Installation                    | USFWS Region | Scientific Name   | Common Name        | Onsite/<br>Contiguous | FED Stat | Category | Critical Habitat on Installation |
|--------|---------------------------------|--------------|---|--------------------|-----------------------|----------|----------|----------------------------------|
|        |                                 |              | <i>Chasiempis sandwichensis</i><br><i>ibidus</i>        | Oahu Elepaio       | Onsite                | E        | Bird     | No                               |
|        |                                 |              | <i>Cyanea acuminata</i>                                 | Haha               | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Cyanea grimesiana</i> ssp.<br><i>grimesiana</i>      | Haha               | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Cyanea koolauensis</i>                               | Haha               | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Cyrtandra subumbellata</i>                           | Ha`iwale           | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Diellia falcata</i>                                  | None               | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Flueggea neowawraea</i>                              | Mehamehame         | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Gardenia mannii</i>                                  | Nanu               | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Hesperomannia arborescens</i>                        | None               | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Isodendrion laurifolium</i>                          | Aupaka             | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Labordia cyrtandrae</i>                              | Kamakahala         | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Lasiurus cinereus semotus</i>                        | Hawaiian Hoary Bat | Onsite                | E        | Mammal   | No                               |
|        |                                 |              | <i>Lepidium arbuscula</i>                               | `Anaunau           | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Lobelia gaudichaudii</i> ssp.<br><i>koolauensis</i>  | None               | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Lobelia niihauensis</i>                              | None               | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Lobelia oahuensis</i>                                | None               | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Neraudia angulata</i> var <i>angulata</i>            | Ma`aloa            | Contiguous            | E        | Plant    | No                               |
|        |                                 |              | <i>Neraudia angulata</i> var <i>dentata</i>             | Ma`aloa            | Contiguous            | E        | Plant    | No                               |
|        |                                 |              | <i>Nototrichium humile</i>                              | Kulu`i             | Contiguous            | E        | Plant    | No                               |
|        |                                 |              | <i>Phyllostegia hirsuta</i>                             | None               | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Phyllostegia kaalaensis</i>                          | None               | Contiguous            | E        | Plant    | No                               |
|        |                                 |              | <i>Phyllostegia mollis</i>                              | None               | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Plantago princeps</i> var <i>princeps</i>            | Laukahi kuahiwi    | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Pritchardia kaalae</i>                               | Loulu              | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Pteris lidgatei</i>                                  | None               | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Sanicula purpurea</i>                                | None               | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Schiedea hookeri</i>                                 | None               | Contiguous            | E        | Plant    | No                               |
|        |                                 |              | <i>Tetraplasandra gymnocarpa</i>                        | `Ohe`ohe           | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Urera kaalae</i>                                     | Opuhe              | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Viola chamissoniana</i> ssp.<br><i>chamissoniana</i> | Pamakani           | Onsite                | E        | Plant    | No                               |
|        |                                 |              | <i>Viola oahuensis</i>                                  | None               | Onsite                | E        | Plant    | No                               |
| USARSO | Fort Buchanan                   | 4            | <i>Epicrates inornatus</i>                              | Puerto Rican Boa   | Onsite                | E        | Reptile  | No                               |
|        |                                 |              | <i>Ottoschulzia rhodoxylon</i>                          | Palo de Rosa       | Onsite                | E        | Plant    | No                               |
| USMA   | West Point Military Reservation | 5            | <i>Acipenser brevirostrum</i>                           | Shortnose Sturgeon | Onsite                | E        | Fish     | No                               |
|        |                                 |              | <i>Haliaeetus leucocephalus</i>                         | Bald Eagle         | Onsite                | T        | Bird     | No                               |

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# **APPENDIX B: Installations for Each TES**

| Scientific Name                   | Common Name                 | Fed Stat | Category  | MACOM   | USFWS Region | Installation        | Onsite/ Contiguous | Critical Habitat on Installation |
|-----------------------------------|-----------------------------|----------|-----------|---------|--------------|---------------------|--------------------|----------------------------------|
| <i>Abutilon sandwicense</i>       | None                        | E        | Plant     | USARPAC | 1            | Schofield Barracks  | Contiguous         | No                               |
| <i>Achatinella mustelina</i>      | Pupu kuahiwi                | E        | Snail     | USARPAC | 1            | Makua               | Onsite             | No                               |
|                                   |                             |          |           | USARPAC | 1            | Schofield Barracks  | Onsite             | No                               |
| <i>Achatinella apexfulva</i>      | Pupu kuahiwi                | E        | Snail     | USARPAC | 1            | Kawailoa TA         | Onsite             | No                               |
| <i>Achatinella byronii</i>        | Pupu kuahiwi                | E        | Snail     | USARPAC | 1            | Kawailoa TA         | Onsite             | No                               |
|                                   |                             |          |           | USARPAC | 1            | Schofield Barracks  | Onsite             | No                               |
| <i>Achatinella curta</i>          | Pupu kuahiwi                | E        | Snail     | USARPAC | 1            | Kahuku TA           | Onsite             | No                               |
|                                   |                             |          |           | USARPAC | 1            | Kawailoa TA         | Onsite             | No                               |
| <i>Achatinella decipiens</i>      | Pupu kuahiwi                | E        | Snail     | USARPAC | 1            | Kawailoa TA         | Onsite             | No                               |
|                                   |                             |          |           | USARPAC | 1            | Schofield Barracks  | Onsite             | No                               |
| <i>Achatinella leucorraphe</i>    | Pupu kuahiwi                | E        | Snail     | USARPAC | 1            | Kawailoa TA         | Onsite             | No                               |
|                                   |                             |          |           | USARPAC | 1            | Schofield Barracks  | Onsite             | No                               |
| <i>Achatinella lila</i>           | Pupu kuahiwi                | E        | Snail     | USARPAC | 1            | Kawailoa TA         | Onsite             | No                               |
| <i>Achatinella livida</i>         | Pupu kuahiwi                | E        | Snail     | USARPAC | 1            | Kawailoa TA         | Onsite             | No                               |
| <i>Achatinella pulcherrima</i>    | Pupu kuahiwi                | E        | Snail     | USARPAC | 1            | Kawailoa TA         | Onsite             | No                               |
| <i>Achatinella sowerbyana</i>     | Pupu kuahiwi                | E        | Snail     | USARPAC | 1            | Kahuku TA           | Onsite             | No                               |
|                                   |                             |          |           | USARPAC | 1            | Kawailoa TA         | Onsite             | No                               |
|                                   |                             |          |           | USARPAC | 1            | Schofield Barracks  | Onsite             | No                               |
| <i>Acipenser brevirostrum</i>     | Shortnose Sturgeon          | E        | Fish      | AMC     | 5            | Aberdeen PG         | Onsite             | No                               |
|                                   |                             |          |           | ARNG    | 5            | Camp Smith TS       | Contiguous         | No                               |
|                                   |                             |          |           | FORSCOM | 4            | Fort Stewart        | Onsite             | No                               |
|                                   |                             |          |           | MTMC    | 4            | Sunny Point         | Contiguous         | No                               |
|                                   |                             |          |           | USMA    | 5            | West Point          | Onsite             | No                               |
| <i>Alectryon macrococcus</i>      | Mahoe                       | E        | Plant     | USARPAC | 1            | Makua               | Onsite             | No                               |
|                                   |                             |          |           | USARPAC | 1            | Schofield Barracks  | Onsite             | No                               |
| <i>Alligator mississippiensis</i> | American Alligator          | T(S/A)   | Reptile   | AMC     | 2            | Longhorn AAP        | Onsite             | No                               |
|                                   |                             |          |           | AMC     | 4            | Louisiana AAP       | Onsite             | No                               |
|                                   |                             |          |           | AMC     | 4            | Redstone Arsenal    | Onsite             | No                               |
|                                   |                             |          |           | ARNG    | 4            | Camp Blanding       | Onsite             | No                               |
|                                   |                             |          |           | ARNG    | 4            | Camp Shelby         | Onsite             | No                               |
|                                   |                             |          |           | MTMC    | 4            | Sunny Point         | Onsite             | No                               |
|                                   |                             |          |           | TRADOC  | 4            | Fort Benning        | Onsite             | No                               |
|                                   |                             |          |           | TRADOC  | 4            | Fort Rucker         | Onsite             | No                               |
| <i>Alsinidendron obovatum</i>     | None                        | E        | Plant     | USARPAC | 1            | Makua               | Onsite             | No                               |
| <i>Alsinidendron trinerve</i>     | None                        | E        | Plant     | USARPAC | 1            | Schofield Barracks  | Onsite             | No                               |
| <i>Amblyopsis rosae</i>           | Ozark Cavefish              | T        | Fish      | ARNG    | 3            | Camp Crowder        | Contiguous         | No                               |
| <i>Ambystoma californiense</i>    | California Tiger Salamander | C        | Amphibian | USARC   | 1            | Fort Hunter Liggett | Onsite             | No                               |

| Scientific Name                             | Common Name              | Fed Stat | Category     | MACOM   | USFWS Region | Installation               | Onsite/ Contiguous | Critical Habitat on Installation |
|---|--------------------------|----------|--------------|---------|--------------|----------------------------|--------------------|----------------------------------|
| <i>Ambystoma cingulatum</i>                 | Flatwoods Salamander     | T        | Amphibian    | FORSCOM | 4            | Fort Stewart               | Onsite             | No                               |
| <i>Ambystoma tigrinum stebbinsi</i>         | Sonoran Tiger Salamander | E        | Amphibian    | TRADOC  | 2            | Fort Huachuca              | Onsite             | No                               |
| <i>Anas wyvilliana</i>                      | Hawaiian Duck            | E        | Bird         | USARPAC | 1            | Dillingham                 | Onsite             | No                               |
| <i>Aphelocoma coerulescens</i>              | Florida Scrub Jay        | T        | Bird         | ARNG    | 4            | Camp Blanding              | Onsite             | No                               |
| <i>Apios priceana</i>                       | Price's Potato-bean      | T        | Plant        | AMC     | 4            | Redstone Arsenal           | Onsite             | No                               |
|   |                          |          |              | FORSCOM | 4            | Fort Campbell              | Contiguous         | No                               |
| <i>Arctomecon humilis</i>                   | Dwarf bear-poppy         | E        | Plant        | ARNG    | 6            | Camp Williams              | Onsite             | No                               |
|   |                          |          |              | ARNG    | 6            | St. George Armory          | Onsite             | No                               |
|   |                          |          |              | ARNG    | 6            | STARC-UT                   | Onsite             | No                               |
| <i>Asplenium fragile var. insulare</i>      | Fragile Fern             | E        | Plant        | USARPAC | 1            | Pohakuloa TA               | Onsite             | No                               |
| <i>Astragalus jaegerianus</i>               | Lane Mountain Milk-vetch | E        | Plant        | FORSCOM | 1            | Fort Irwin                 | Onsite             | No                               |
| <i>Bonamia menziesii</i>                    | None                     | E        | Plant        | USARPAC | 1            | Makua                      | Onsite             | No                               |
| <i>Brachyramphus marmoratus marmoratus</i>  | Marbled Murrelet         | T        | Bird         | ARNG    | 1            | Camp Rilea                 | Contiguous         | No                               |
| <i>Branchinecta lynchi</i>                  | Vernal Pool Fairy Shrimp | T        | Invertebrate | ARNG    | 1            | Camp Roberts TS            | Onsite             | No                               |
|   |                          |          |              | USARC   | 1            | Fort Hunter Liggett        | Onsite             | No                               |
| <i>Bufo microscaphus californicus</i>       | Arroyo Toad              | E        | Amphibian    | USARC   | 1            | Fort Hunter Liggett        | Onsite             | No                               |
| <i>Buteo solitarius</i>                     | Hawaiian Hawk            | E        | Bird         | USARPAC | 1            | Pohakuloa TA               | Onsite             | No                               |
| <i>Canis lupus</i>                          | Gray Wolf                | E        | Mammal       | USARC   | 3            | Fort McCoy                 | Onsite             | No                               |
|   |                          | T        |              | ARNG    | 3            | Camp Ripley                | Onsite             | Yes                              |
| <i>Canis lupus baileyi</i>                  | Mexican Gray Wolf        | E        | Mammal       | ATEC    | 2            | White Sands                | Contiguous         | No                               |
| <i>Caretta caretta</i>                      | Loggerhead Sea Turtle    | T        | Reptile      | MTMC    | 4            | Sunny Point                | Contiguous         | No                               |
| <i>Cenchrus agrimonioides</i>               | Kamanomano               | E        | Plant        | USARPAC | 1            | Makua                      | Onsite             | No                               |
| <i>Chamaesyce deltoidea ssp. deltoidea</i>  | Deltoid Spurge           | E        | Plant        | USARC   | 4            | 81ST RSC HQ                | Onsite             | No                               |
| <i>Chamaesyce celastroides var. kaenana</i> | `Akoko                   | E        | Plant        | USARPAC | 1            | Makua                      | Onsite             | No                               |
| <i>Chamaesyce rockii</i>                    | `Akoko                   | E        | Plant        | USARPAC | 1            | Kawailoa TA                | Onsite             | No                               |
|   |                          |          |              | USARPAC | 1            | Schofield Barracks         | Onsite             | No                               |
| <i>Charadrius alexandrinus nivosus</i>      | Western Snowy Plover     | T        | Bird         | ARNG    | 1            | Camp Rilea                 | Contiguous         | No                               |
|   |                          |          |              | TRADOC  | 1            | Presidio of Monterey Annex | Onsite             | Yes                              |
| <i>Charadrius melodus</i>                   | Piping Plover            | T        | Bird         | ARNG    | 6            | TS Garrison                | Contiguous         | No                               |
|   |                          |          |              | ATEC    | 2            | White Sands                | Contiguous         | No                               |
|   |                          |          |              | FORSCOM | 6            | Fort Riley                 | Onsite             | No                               |
|   |                          |          |              | MTMC    | 4            | Sunny Point                | Contiguous         | No                               |

| Scientific Name                      | Common Name              | Fed Stat | Category     | MACOM   | USFWS Region | Installation               | Onsite/ Contiguous | Critical Habitat on Installation |
|--------------------------------------|--------------------------|----------|--------------|---------|--------------|----------------------------|--------------------|----------------------------------|
| Charadrius montanus                  | Mountain Plover          | PT       | Bird         | AMC     | 6            | Pueblo Depot               | Onsite             | No                               |
|                                      |                          |          |              | ATEC    | 2            | White Sands                | Onsite             | No                               |
|                                      |                          |          |              | FORSCOM | 6            | Fort Carson                | Onsite             | No                               |
| Chasiempis sandwichensis ibidus      | Oahu Elepaio             | E        | Bird         | USARPAC | 1            | Makua                      | Onsite             | No                               |
|                                      |                          |          |              | USARPAC | 1            | Schofield Barracks         | Onsite             | No                               |
| Chelonia mydas                       | Green Sea Turtle         | T        | Reptile      | MTMC    | 4            | Sunny Point                | Contiguous         | No                               |
| Chlorogalum purpureum var. purpureum | Purple Amole             | T        | Plant        | ARNG    | 1            | Camp Roberts TS            | Onsite             | No                               |
|                                      |                          |          |              | USARC   | 1            | Fort Hunter Liggett        | Onsite             | No                               |
| Chorizanthe pungens var. pungens     | Monterey Spineflower     | T        | Plant        | TRADOC  | 1            | Presidio of Monterey Annex | Onsite             | No                               |
|                                      |                          |          |              | USARC   | 1            | 63RD RSC HQ                | Onsite             | No                               |
| Cicurina madla                       | Madla's Cave Spider      | E        | Invertebrate | MEDCOM  | 2            | Camp Bullis                | Onsite             | No                               |
|                                      |                          |          |              | MEDCOM  | 2            | Fort Sam Houston           | Onsite             | No                               |
| Cirsium fontinale obispoense         | Chorro Creek Bog Thistle | E        | Plant        | ARNG    | 1            | Camp San Luis Obispo       | Onsite             | No                               |
| Clemmys muhlenbergii                 | Bog Turtle               | T        | Reptile      | AMC     | 5            | ARDEC                      | Onsite             | No                               |
|                                      |                          |          |              | AMC     | 5            | Letterkenny AD             | Onsite             | No                               |
| Corvus hawaiiensis                   | Hawaiian Crow            | E        | Bird         | USARPAC | 1            | Pohakuloa TA               | Contiguous         | No                               |
| Coryphantha sneedii var. sneedii     | Sneed Pincushion Cactus  | E        | Plant        | TRADOC  | 2            | Fort Bliss                 | Onsite             | No                               |
| Ctenitis squamigera                  | Pauoa                    | E        | Plant        | USARPAC | 1            | Makua                      | Onsite             | No                               |
| Cyanea acuminata                     | Haha                     | E        | Plant        | USARPAC | 1            | Kawailoa TA                | Onsite             | No                               |
|                                      |                          |          |              | USARPAC | 1            | Schofield Barracks         | Onsite             | No                               |
| Cyanea crispa                        | None                     | E        | Plant        | USARPAC | 1            | Kawailoa TA                | Onsite             | No                               |
| Cyanea grimesiana ssp. grimesiana    | Haha                     | E        | Plant        | USARPAC | 1            | Schofield Barracks         | Onsite             | No                               |
| Cyanea koolauensis                   | Haha                     | E        | Plant        | USARPAC | 1            | Kahuku TA                  | Onsite             | No                               |
|                                      |                          |          |              | USARPAC | 1            | Kawailoa TA                | Onsite             | No                               |
|                                      |                          |          |              | USARPAC | 1            | Schofield Barracks         | Onsite             | No                               |
| Cyanea st-johnii                     | Haha                     | E        | Plant        | USARPAC | 1            | Kawailoa TA                | Onsite             | No                               |
| Cyanea superba                       | Haha                     | E        | Plant        | USARPAC | 1            | Makua                      | Onsite             | No                               |
| Cynomys ludovicianus                 | Black-tailed Prairie Dog | C        | Mammal       | AMC     | 6            | Pueblo Depot Activity      | Onsite             | No                               |
|                                      |                          |          |              | ARNG    | 6            | Fort Harrison              | Onsite             | No                               |
|                                      |                          |          |              | ARNG    | 6            | Salina Smokey Hill TA      | Contiguous         | No                               |
|                                      |                          |          |              | ARNG    | 6            | Sheridan LTA               | Onsite             | No                               |
|                                      |                          |          |              | ATEC    | 2            | White Sands                | Contiguous         | No                               |
|                                      |                          |          |              | FORSCOM | 6            | Pinyon Canyon              | Onsite             | No                               |
| Cynomys parvidens                    | Utah Prairie Dog         | T        | Mammal       | ARNG    | 6            | Cedar City Armory          | Contiguous         | No                               |
| Cyprogenia stegaria                  | Fanshell                 | E        | Clam         | AMC     | 4            | Redstone Arsenal           | Contiguous         | No                               |
| Cyrtandra dentata                    | Ha`iwale                 | E        | Plant        | USARPAC | 1            | Makua                      | Onsite             | No                               |

| Scientific Name                          | Common Name                       | Fed Stat | Category     | MACOM   | USFWS Region | Installation               | Onsite/ Contiguous | Critical Habitat on Installation |
|--|-----------------------------------|----------|--------------|---------|--------------|----------------------------|--------------------|----------------------------------|
| <i>Cyrtandra subumbellata</i>            | Ha`iwale                          | E        | Plant        | USARPAC | 1            | Schofield Barracks         | Onsite             | No                               |
| <i>Cyrtandra viridiflora</i>             | Ha`iwale                          | E        | Plant        | USARPAC | 1            | Kawailoa TA                | Onsite             | No                               |
| <i>Delissea subcordata</i>               | `Oha                              | E        | Plant        | USARPAC | 1            | Makua                      | Onsite             | No                               |
| <i>Dendroica chrysoparia</i>             | Golden-cheeked Warbler            | E        | Bird         | FORSCOM | 2            | Fort Hood                  | Onsite             | No                               |
|  |                                   |          |              | MEDCOM  | 2            | Camp Bullis                | Onsite             | No                               |
|  |                                   |          |              | MEDCOM  | 2            | Fort Sam Houston           | Onsite             | No                               |
| <i>Dendroica kirtlandii</i>              | Kirtland's Warbler                | E        | Bird         | ARNG    | 3            | Camp Grayling              | Onsite             | No                               |
| <i>Dermodochelys coriacea</i>            | Leatherback Sea Turtle            | E        | Reptile      | MTMC    | 4            | Sunny Point                | Contiguous         | No                               |
| <i>Desmocerus californicus dimorphus</i> | Valley Elderberry Longhorn Beetle | T        | Invertebrate | AMC     | 1            | Riverbank AAP              | Contiguous         | No                               |
| <i>Diellia falcata</i>                   | None                              | E        | Plant        | USARPAC | 1            | Makua                      | Onsite             | No                               |
|  |                                   |          |              | USARPAC | 1            | Schofield Barracks         | Onsite             | No                               |
| <i>Dromus dromas</i>                     | Dromedary Pearlymussel            | E        | Clam         | FORSCOM | 4            | Fort Campbell              | Contiguous         | No                               |
| <i>Drymarchon corais couperi</i>         | Eastern Indigo Snake              | T        | Reptile      | ARNG    | 4            | Camp Blanding              | Onsite             | No                               |
|  |                                   |          |              | FORSCOM | 4            | Fort Stewart               | Onsite             | No                               |
| <i>Dubautia herbstobatae</i>             | Na`ena`e                          | E        | Plant        | USARPAC | 1            | Makua                      | Onsite             | No                               |
| <i>Echinacea laevigata</i>               | Smooth Coneflower                 | E        | Plant        | ARNG    | 4            | Leesburg TS                | Onsite             | No                               |
|  |                                   |          |              | TRADOC  | 4            | Fort Jackson               | Onsite             | No                               |
| <i>Empidonax traillii extimus</i>        | Southwestern Willow Flycatcher    | E        | Bird         | ATEC    | 2            | White Sands                | Contiguous         | No                               |
|  |                                   | E        | Bird         | TRADOC  | 2            | Fort Huachuca              | Contiguous         | Yes                              |
| <i>Epicrates inornatus</i>               | Puerto Rican Boa                  | E        | Reptile      | USARSO  | 4            | Fort Buchanan              | Onsite             | No                               |
| <i>Epioblasma walkeri</i>                | Tan Riffleshell                   | E        | Clam         | FORSCOM | 4            | Fort Campbell              | Contiguous         | No                               |
| <i>Erigeron basalticus</i>               | Basalt Daisy                      | C        | Plant        | FORSCOM | 1            | Yakima Training Center     | Onsite             | No                               |
| <i>Erigeron lemmonii</i>                 | Lemmon Fleabane                   | C        | Plant        | TRADOC  | 2            | Fort Huachuca              | Onsite             | No                               |
| <i>Etheostoma cragini</i>                | Arkansas Darter                   | C        | Fish         | AMC     | 6            | Pueblo Depot Activity      | Contiguous         | No                               |
|  |                                   |          |              | FORSCOM | 6            | Fort Carson                | Onsite             | No                               |
| <i>Eugenia koolauensis</i>               | Nioi                              | E        | Plant        | USARPAC | 1            | Kahuku TA                  | Onsite             | No                               |
| <i>Euphilotes enoptes smithi</i>         | Smith's Blue Butterfly            | E        | Invertebrate | TRADOC  | 1            | Presidio of Monterey Annex | Onsite             | No                               |
| <i>Euphorbia haeleeleana</i>             | `Akoko                            | E        | Plant        | USARPAC | 1            | Makua                      | Onsite             | No                               |
| <i>Falco femoralis septentrionalis</i>   | Northern Aplomado Falcon          | E        | Bird         | ATEC    | 2            | White Sands                | Onsite             | No                               |
|  |                                   |          |              | TRADOC  | 2            | Fort Bliss                 | Onsite             | No                               |
| <i>Fallicambarus gordonii</i>            | Camp Shelby Burrowing Crayfish    | C        | Invertebrate | ARNG    | 4            | Camp Shelby                | Onsite             | No                               |
| <i>Felis concolor</i>                    | Mountain Lion                     | T (S/A)  | Mammal       | MTMC    | 4            | Sunny Point                | Onsite             | No                               |
| <i>Felis concolor coryi</i>              | Florida Panther                   | E        | Mammal       | ARNG    | 4            | Camp Blanding              | Contiguous         | No                               |
| <i>Flueggea neowawraea</i>               | Mehamehame                        | E        | Plant        | USARPAC | 1            | Makua                      | Onsite             | No                               |
|  |                                   |          |              | USARPAC | 1            | Schofield Barracks         | Onsite             | No                               |



| Scientific Name                  | Common Name                    | Fed Stat | Category | MACOM   | USFWS Region | Installation               | Onsite/<br>Contiguous | Critical<br>Habitat on<br>Installation |
|----------------------------------|--------------------------------|----------|----------|---------|--------------|----------------------------|-----------------------|--|
| Fulica americana alai            | Hawaiian Coot                  | E        | Bird     | ARNG    | 1            | Fort Ruger                 | Onsite                | No                                     |
|                                  |                                |          |          | USARPAC | 1            | Dillingham                 | Onsite                | No                                     |
| Gallinula chloropus sandvicensis | Hawaiian Common Moorhen        | E        | Bird     | ARNG    | 1            | Fort Ruger                 | Onsite                | No                                     |
|                                  |                                |          |          | USARPAC | 1            | Dillingham                 | Onsite                | No                                     |
| Gardenia manni                   | Nanu                           | E        | Plant    | USARPAC | 1            | Kahuku TA                  | Onsite                | No                                     |
|                                  |                                |          |          | USARPAC | 1            | Kawailoa TA                | Onsite                | No                                     |
|                                  |                                |          |          | USARPAC | 1            | Schofield Barracks         | Onsite                | No                                     |
| Gilia tenuiflora ssp.arenaria    | Monterey Gilia                 | E        | Plant    | TRADOC  | 1            | Presidio of Monterey Annex | Onsite                | No                                     |
| Glaucidium brasilianum cactorum  | Cactus Ferruginous Pygmy-owl   | E        | Bird     | ARNG    | 2            | Florence MR                | Onsite                | Yes                                    |
|                                  |                                |          |          |         | 2            | Marana SBAH                | Contiguous            | No                                     |
| Gopherus agassizii               | Desert Tortoise (Sonoran Pop.) | T (S/A)  | Reptile  | ARNG    | 2            | Florence MR                | Onsite                | No                                     |
| Gopherus agassizii               | Desert Tortoise                | T        | Reptile  | ARNG    | 1            | Clark County TA            | Onsite                | No                                     |
|                                  |                                |          |          | FORSCOM | 1            | Fort Irwin                 | Onsite                | Yes                                    |
| Gopherus polyphemus              | Gopher Tortoise                | T        | Reptile  | ARNG    | 4            | Camp Shelby                | Onsite                | No                                     |
| Grus americana                   | Whooping Crane                 | E        | Bird     | ARNG    | 6            | Camp Ashland               | Contiguous            | Yes                                    |
|                                  |                                |          |          | ARNG    | 6            | Hastings TS                | Contiguous            | Yes                                    |
|                                  |                                |          |          | ATEC    | 2            | White Sands                | Contiguous            | No                                     |
| Gymnogyps californianus          | California Condor              | E        | Bird     | ARNG    | 1            | Camp Roberts TS            | Onsite                | No                                     |
|                                  |                                |          |          | ARNG    | 1            | Camp San Luis Obispo       | Onsite                | No                                     |
|                                  |                                |          |          | ATEC    | 2            | White Sands                | Contiguous            | No                                     |
|                                  |                                |          |          | USARC   | 1            | Fort Hunter Liggett        | Contiguous            | No                                     |
| Haliaeetus leucocephalus         | Bald Eagle                     | T        | Bird     | AMC     | 5            | Aberdeen PG                | Onsite                | No                                     |
|                                  |                                |          |          | AMC     | 5            | Adelphi                    | Onsite                | No                                     |
|                                  |                                |          |          | AMC     | 5            | ARDEC                      | Contiguous            | No                                     |
|                                  |                                |          |          | AMC     | 6            | Deseret Chemical Depot     | Contiguous            | No                                     |
|                                  |                                |          |          | AMC     | 4            | Holston AAP                | Contiguous            | No                                     |
|                                  |                                |          |          | AMC     | 3            | Newport Chemical Activity  | Onsite                | No                                     |
|                                  |                                |          |          | AMC     | 3            | Ravenna AAP                | Contiguous            | No                                     |
|                                  |                                |          |          | AMC     | 4            | Redstone Arsenal           | Onsite                | No                                     |
|                                  |                                |          |          | AMC     | 3            | Rock Island Arsenal        | Onsite                | No                                     |
|                                  |                                |          |          | AMC     | 1            | Sierra Army Depot          | Contiguous            | No                                     |
|                                  |                                |          |          | AMC     | 6            | Sunflower AAP              | Contiguous            | No                                     |
|                                  |                                |          |          | ARNG    | 3            | Atterbury TS               | Onsite                | No                                     |
|                                  |                                |          |          | ARNG    | 4            | Camp Blanding              | Onsite                | No                                     |
|                                  |                                |          |          | ARNG    | 3            | Camp Crowder               | Onsite                | No                                     |
|                                  |                                |          |          | ARNG    | 3            | Camp Grayling              | Onsite                | No                                     |
|                                  |                                |          |          | ARNG    | 6            | Camp Guernsey              | Contiguous            | No                                     |

| Scientific Name                     | Common Name         | Fed Stat            | Category   | MACOM   | USFWS Region | Installation        | Onsite/ Contiguous | Critical Habitat on Installation |
|-------------------------------------|---------------------|---------------------|------------|---------|--------------|---------------------|--------------------|----------------------------------|
| Haliaeetus leucocephalus<br>(cont.) | Bald Eagle          | T                   | Bird       | ARNG    | 1            | Camp Murray         | Contiguous         | No                               |
|                                     |                     |                     |            | ARNG    | 2            | Camp Navajo         | Onsite             | No                               |
|                                     |                     |                     |            | ARNG    | 1            | Camp Rilea          | Onsite             | No                               |
|                                     |                     |                     |            | ARNG    | 3            | Camp Ripley         | Onsite             | No                               |
|                                     |                     |                     |            | ARNG    | 1            | Camp Roberts TS     | Onsite             | No                               |
|                                     |                     |                     |            | ARNG    | 4            | Camp Robinson       | Contiguous         | No                               |
|                                     |                     |                     |            | ARNG    | 5            | Camp Smith TS       | Contiguous         | No                               |
|                                     |                     |                     |            | ARNG    | 6            | Camp Williams       | Contiguous         | No                               |
|                                     |                     |                     |            | ARNG    | 3            | Ike Skeleton TS     | Onsite             | No                               |
|                                     |                     |                     |            | ARNG    | 3            | Macon TS            | Onsite             | No                               |
|                                     |                     |                     |            | ARNG    | 6            | STARC-UT            | Contiguous         | No                               |
|                                     |                     |                     |            | ARNG    | 1            | Stead TS            | Contiguous         | No                               |
|                                     |                     |                     |            | ARNG    | 3            | Truman Reservoir TS | Onsite             | No                               |
|                                     |                     |                     |            | ATEC    | 2            | White Sands         | Onsite             | No                               |
|                                     |                     |                     |            | FORSCOM | 6            | Fort Carson         | Onsite             | No                               |
|                                     |                     |                     |            | FORSCOM | 1            | Fort Lewis          | Onsite             | No                               |
|                                     |                     |                     |            | FORSCOM | 6            | Fort Riley          | Onsite             | No                               |
|                                     |                     |                     |            | FORSCOM | 1            | Yakima              | Onsite             | No                               |
|                                     |                     |                     |            | MDW     | 5            | Fort A.P. Hill      | Onsite             | No                               |
|                                     |                     |                     |            | MDW     | 5            | Fort Belvoir        | Onsite             | No                               |
|                                     |                     |                     |            | MTMC    | 4            | Sunny Point         | Contiguous         | No                               |
|                                     |                     |                     |            | TRADOC  | 4            | Fort Benning        | Onsite             | No                               |
|                                     |                     |                     |            | TRADOC  | 2            | Fort Bliss          | Onsite             | No                               |
|                                     |                     |                     |            | TRADOC  | 5            | Fort Eustis         | Onsite             | No                               |
|                                     |                     |                     |            | TRADOC  | 4            | Fort Gordon         | Onsite             | No                               |
|                                     |                     |                     |            | TRADOC  | 4            | Fort Knox           | Contiguous         | No                               |
|                                     |                     |                     |            | TRADOC  | 6            | Fort Leavenworth    | Onsite             | No                               |
|                                     |                     |                     |            | TRADOC  | 5            | Fort Lee            | Onsite             | No                               |
|                                     |                     |                     |            | TRADOC  | 3            | Fort Leonard Wood   | Onsite             | No                               |
|                                     |                     |                     |            | TRADOC  | 4            | Fort Rucker         | Contiguous         | No                               |
| USARC                               | 5                   | Devens RFTA         | Contiguous | No      |              |                     |                    |                                  |
| USARC                               | 1                   | Fort Hunter Liggett | Onsite     | No      |              |                     |                    |                                  |
| USARC                               | 3                   | Fort McCoy          | Contiguous | No      |              |                     |                    |                                  |
| USMA                                | 5                   | West Point          | Onsite     | No      |              |                     |                    |                                  |
| Haplostachys haplostachya           | Hawaiian Mint       | E                   | Plant      | USARPAC | 1            | Pohakuloa TA        | Onsite             | No                               |
| Hedeoma todsenii                    | Todsen's Pennyroyal | E                   | Plant      | ATEC    | 2            | White Sands         | Onsite             | Yes                              |
| Hedyotis coriacea                   | Kio'ele             | E                   | Plant      | USARPAC | 1            | Pohakuloa TA        | Onsite             | No                               |

| Scientific Name                     | Common Name               | Fed Stat | Category | MACOM   | USFWS Region | Installation                         | Onsite/ Contiguous | Critical Habitat on Installation |
|-------------------------------------|---------------------------|----------|----------|---------|--------------|--------------------------------------|--------------------|----------------------------------|
| Hedyotis parvula                    | None                      | E        | Plant    | USARPAC | 1            | Makua                                | Onsite             | No                               |
| Helianthus eggertii                 | Eggert's sunflower        | T        | Plant    | ARNG    | 4            | Tulahoma TS                          | Onsite             | No                               |
| Helonias bullata                    | Swamp Pink                | T        | Plant    | MDW     | 5            | Fort A.P. Hill                       | Onsite             | No                               |
| Hemignathus munroi                  | `Akiapola`au              | E        | Bird     | USARPAC | 1            | Pohakuloa TA                         | Onsite             | No                               |
| Hesperomannia arborescens           | None                      | E        | Plant    | USARPAC | 1            | Kahuku TA                            | Onsite             | No                               |
|                                     |                           |          |          | USARPAC | 1            | Kawailoa TA                          | Onsite             | No                               |
|                                     |                           |          |          | USARPAC | 1            | Schofield Barracks                   | Onsite             | No                               |
| Hibiscus brackenridgei              | Ma`o hau hele             | E        | Plant    | USARPAC | 1            | Dillingham                           | Contiguous         | No                               |
| Himantopus mexicanus knudseni       | Hawaiian Stilt            | E        | Bird     | ARNG    | 1            | Ukumehame Range                      | Onsite             | No                               |
|                                     |                           |          |          | USARPAC | 1            | Dillingham                           | Onsite             | No                               |
| Holocarpha macradenia               | Santa Cruz Tarplant       | T        | Plant    | ARNG    | 1            | Santa Cruz Armory                    | Onsite             | No                               |
| Howellia aquatilis                  | Water Howellia            | T        | Plant    | FORSCOM | 1            | Fort Lewis                           | Onsite             | No                               |
| Hymenoxys texana                    | Texas Prairie Dawn-flower | E        | Plant    | ARNG    | 2            | Addicks Reservoir WETS               | Onsite             | No                               |
|                                     |                           |          |          | ARNG    | 2            | Barker Dam WETS                      | Onsite             | No                               |
| Isodendron laurifolium              | Aupaka                    | E        | Plant    | USARPAC | 1            | Schofield Barracks                   | Onsite             | No                               |
| Isoetes louisianensis               | Louisiana quillwort       | E        | Plant    | ARNG    | 4            | Camp Shelby                          | Onsite             | No                               |
| Isotria medeoloides                 | Small Whorled Pogonia     | T        | Plant    | MDW     | 5            | Fort A.P. Hill                       | Onsite             | No                               |
|                                     |                           |          |          | ARNG    | 5            | New Hampshire NGTS                   | Contiguous         | No                               |
| Labordia cyrtandrae                 | Kamakahala                | E        | Plant    | USARPAC | 1            | Schofield Barracks                   | Onsite             | No                               |
| Lampsilis abrupta                   | Pink Mucket Pearlymussel  | E        | Clam     | FORSCOM | 4            | Fort Campbell                        | Contiguous         | No                               |
| Lasiurus cinereus semotus           | Hawaiian Hoary Bat        | E        | Mammal   | ARNG    | 1            | Hilo (Keaukaha Military Reservation) | Onsite             | No                               |
|                                     |                           |          |          | ARNG    | 1            | Kanaio WETS                          | Contiguous         | No                               |
|                                     |                           |          |          | USARPAC | 1            | Kawailoa TA                          | Onsite             | No                               |
|                                     |                           |          |          | USARPAC | 1            | Makua                                | Onsite             | No                               |
|                                     |                           |          |          | USARPAC | 1            | Pohakuloa TA                         | Onsite             | No                               |
|                                     |                           |          |          | USARPAC | 1            | Schofield Barracks                   | Onsite             | No                               |
| Lasthenia conjugens                 | Contra Costa Goldfields   | E        | Plant    | TRADOC  | 1            | Presidio of Monterey Annex           | Onsite             | No                               |
| Lepidium arbuscula                  | `Anaunau                  | E        | Plant    | USARPAC | 1            | Makua                                | Onsite             | No                               |
|                                     |                           |          | Plant    | USARPAC | 1            | Schofield Barracks                   | Onsite             | No                               |
| Lepidium papilliferum               | Slick Spot Peppergrass    | C        | Plant    | ARNG    | 1            | Orchard Range TS                     | Onsite             | No                               |
| Lepidochelys kempii                 | Kemp's Ridley Sea Turtle  | E        | Reptile  | MTMC    | 4            | Sunny Point                          | Contiguous         | No                               |
| Leptonycteris curasoae yerbabuena   | Lesser Long-nosed Bat     | E        | Mammal   | ARNG    | 2            | Florence MR                          | Contiguous         | No                               |
|                                     |                           |          |          | ARNG    | 2            | Marana SBAH                          | Contiguous         | No                               |
|                                     |                           |          |          | TRADOC  | 2            | Fort Huachuca                        | Onsite             | No                               |
| Lilaeopsis schaffneriana ssprecurva | Huachuca Water-umbel      | E        | Plant    | TRADOC  | 2            | Fort Huachuca                        | Onsite             | Yes                              |

| Scientific Name                                     | Common Name              | Fed Stat    | Category     | MACOM   | USFWS Region | Installation                   | Onsite/ Contiguous | Critical Habitat on Installation |
|---|--------------------------|-------------|--------------|---------|--------------|--------------------------------|--------------------|----------------------------------|
| <i>Lipochaeta tenuifolia</i>                        | Nehe                     | E           | Plant        | USARPAC | 1            | Makua                          | Onsite             | No                               |
| <i>Lobelia gaudichaudii</i> ssp. <i>koolauensis</i> | None                     | E           | Plant        | USARPAC | 1            | Schofield Barracks             | Onsite             | No                               |
| <i>Lobelia niihauensis</i>                          | None                     | E           | Plant        | USARPAC | 1            | Makua                          | Onsite             | No                               |
|   |                          |             |              | USARPAC | 1            | Schofield Barracks             | Onsite             | No                               |
| <i>Lobelia oahuensis</i>                            | None                     | E           | Plant        | USARPAC | 1            | Makua                          | Onsite             | No                               |
|   |                          |             | Plant        | USARPAC | 1            | Schofield Barracks             | Onsite             | No                               |
| <i>Loxioides bailleui</i>                           | Palila                   | E           | Bird         | USARPAC | 1            | Pohakuloa TA                   | Onsite             | No                               |
| <i>Loxops coccineus coccineus</i>                   | Hawaii `Akepa            | E           | Bird         | USARPAC | 1            | Pohakuloa TA                   | Contiguous         | No                               |
| <i>Lupinus sulphureus kincaidii</i>                 | Kincaid's Lupine         | T           | Plant        | ARNG    | 1            | Camp Adair                     | Onsite             | No                               |
| <i>Lycaeides melissa samuelis</i>                   | Karner Blue Butterfly    | E           | Invertebrate | ARNG    | 5            | NH State Military Reservation  | Contiguous         | No                               |
|   |                          |             |              | ARNG    | 3            | Wisconsin Military Reservation | Contiguous         | No                               |
|   |                          |             |              | USARC   | 3            | Fort McCoy                     | Onsite             | No                               |
| <i>Lysimachia asperulaefolia</i>                    | Rough-leaved Loosestrife | E           | Plant        | ARNG    | 4            | Leesburg TS                    | Contiguous         | No                               |
|   |                          |             |              | FORSCOM | 4            | Fort Bragg                     | Contiguous         | No                               |
|   |                          |             |              | MTMC    | 4            | Sunny Point                    | Onsite             | No                               |
|   |                          |             |              | TRADOC  | 4            | Fort Jackson                   | Onsite             | No                               |
| <i>Manduca blackburni</i>                           | Blackburn's Sphinx Moth  | E           | Invertebrate | ARNG    | 1            | Kanaio WETS                    | Onsite             | No                               |
| <i>Marshallia mohrii</i>                            | Mohr's Barbara's Buttons | T           | Plant        | ARNG    | 4            | Fort McClellan                 | Onsite             | No                               |
| <i>Melicope lydgatei</i>                            | Alani                    | E           | Plant        | USARPAC | 1            | Kawailoa TA                    | Onsite             | No                               |
| <i>Mustela nigripes</i>                             | Black-footed Ferret      | E           | Mammal       | ATEC    | 2            | White Sands                    | Contiguous         | No                               |
| <i>Mycteria americana</i>                           | Wood Stork               | E           | Bird         | ARNG    | 4            | Camp Blanding                  | Onsite             | No                               |
|   |                          |             |              | FORSCOM | 4            | Fort Stewart                   | Onsite             | No                               |
|   |                          |             |              | TRADOC  | 4            | Fort Benning                   | Onsite             | No                               |
|   |                          |             |              | TRADOC  | 4            | Fort Gordon                    | Onsite             | No                               |
| <i>Myotis grisescens</i>                            | Gray Bat                 | E           | Mammal       | AMC     | 3            | Indiana AAP                    | Onsite             | No                               |
|   |                          |             |              | ARNG    | 3            | Camp Crowder                   | Onsite             | No                               |
|   |                          |             |              | ARNG    | 4            | Fort McClellan                 | Onsite             | No                               |
|   |                          |             |              | ARNG    | 4            | Tulahoma TS                    | Contiguous         | No                               |
|   |                          |             |              | ARNG    | 4            | W.H. Ford TC                   | Onsite             | No                               |
|   |                          |             |              | FORSCOM | 4            | Fort Campbell                  | Onsite             | No                               |
|   |                          |             |              | TRADOC  | 4            | Fort Knox                      | Onsite             | No                               |
|   |                          |             |              | TRADOC  | 3            | Fort Leonard Wood              | Onsite             | No                               |
| TRADOC  | 4                        | Fort Rucker | Contiguous   | No      |              |                                |                    |                                  |

| Scientific Name                | Common Name                      | Fed Stat          | Category     | MACOM   | USFWS Region | Installation         | Onsite/ Contiguous | Critical Habitat on Installation |
|--------------------------------|----------------------------------|-------------------|--------------|---------|--------------|----------------------|--------------------|----------------------------------|
| Myotis sodalis                 | Indiana Bat                      | E                 | Mammal       | AMC     | 5            | ARDEC                | Onsite             | No                               |
|                                |                                  |                   |              | AMC     | 3            | Iowa AAP             | Onsite             | No                               |
|                                |                                  |                   |              | AMC     | 3            | Newport Chemical     | Onsite             | No                               |
|                                |                                  |                   |              | AMC     | 3            | Rock Island Arsenal  | Contiguous         | No                               |
|                                |                                  |                   |              | ARNG    | 3            | Atterbury TS         | Onsite             | No                               |
|                                |                                  |                   |              | ARNG    | 3            | Macon TS             | Contiguous         | No                               |
|                                |                                  |                   |              | FORSCOM | 4            | Fort Campbell        | Onsite             | No                               |
|                                |                                  |                   |              | FORSCOM | 5            | Fort Drum            | Contiguous         | No                               |
|                                |                                  |                   |              | TRADOC  | 4            | Fort Knox            | Onsite             | No                               |
|                                | 3                                | Fort Leonard Wood | Onsite       | No      |              |                      |                    |                                  |
| Myrsine juddii                 | Kolea                            | E                 | Plant        | USARPAC | 1            | Kawailoa TA          | Onsite             | No                               |
| Neonympha mitchellii francisci | Saint Francis' Satyr Butterfly   | E                 | Invertebrate | FORSCOM | 4            | Fort Bragg           | Onsite             | No                               |
| Neraudia angulata var angulata | Ma'aloa                          | E                 | Plant        | USARPAC | 1            | Makua                | Onsite             | No                               |
|                                |                                  |                   |              | USARPAC | 1            | Schofield Barracks   | Contiguous         | No                               |
| Neraudia angulata var dentata  | Ma'aloa                          | E                 | Plant        | USARPAC | 1            | Makua                | Onsite             | No                               |
|                                |                                  |                   |              | USARPAC | 1            | Schofield Barracks   | Contiguous         | No                               |
| Neraudia ovata                 | Ma'aloa                          | E                 | Plant        | USARPAC | 1            | Pohakuloa TA         | Onsite             | No                               |
| Nerodia erythrogaster neglecta | Northern Copperbelly Water Snake | T                 | Reptile      | FORSCOM | 4            | Fort Campbell        | Contiguous         | No                               |
| Nesochen sandvicensis          | Hawaiian Goose                   | E                 | Bird         | USARPAC | 1            | Pohakuloa TA         | Onsite             | No                               |
| Nicrophorus americanus         | American Burying Beetle          | E                 | Invertebrate | AMC     | 2            | McAlester AAP        | Onsite             | No                               |
|                                |                                  |                   |              | ARNG    | 2            | Camp Gruber TS       | Onsite             | No                               |
|                                |                                  |                   |              | ARNG    | 4            | Fort Chaffee         | Onsite             | No                               |
| Nototrichium humile            | Kulu'i                           | E                 | Plant        | USARPAC | 1            | Dillingham           | Contiguous         | No                               |
|                                |                                  |                   |              | USARPAC | 1            | Makua                | Onsite             | No                               |
|                                |                                  |                   |              | USARPAC | 1            | Schofield Barracks   | Contiguous         | No                               |
| Notropis topeka                | Topeka Shiner                    | E                 | Fish         | FORSCOM | 6            | Fort Riley           | Onsite             | No                               |
| Obovaria retusa                | Ring Pink Mussel                 | E                 | Clam         | FORSCOM | 4            | Fort Campbell        | Contiguous         | No                               |
| Oncorhynchus clarki stomias    | Greenback Cutthroat Trout        | T                 | Fish         | FORSCOM | 6            | Fort Carson          | Onsite             | No                               |
| Oncorhynchus mykiss            | Steelhead                        | T                 | Fish         | ARNG    | 1            | Camp San Luis Obispo | Onsite             | No                               |
| Oncorhynchus tshawytscha       | Chinook Salmon                   | T                 | Fish         | USARC   | 1            | 70TH RSC HQ          | Contiguous         | No                               |
| Oreomystis mana                | Hawaii Creeper                   | E                 | Bird         | USARPAC | 1            | Pohakuloa TA         | Onsite             | No                               |
| Ottoschulzia rhodoxylon        | Palo de Rosa                     | E                 | Plant        | USARSO  | 4            | Fort Buchanan        | Onsite             | No                               |
| Palaemonias alabamiae          | Alabama Cave Shrimp              | E                 | Invertebrate | AMC     | 4            | Redstone Arsenal     | Onsite             | No                               |

| Scientific Name                     | Common Name                          | Fed Stat     | Category | MACOM   | USFWS Region | Installation         | Onsite/ Contiguous | Critical Habitat on Installation |
|-------------------------------------|--------------------------------------|--------------|----------|---------|--------------|----------------------|--------------------|----------------------------------|
| Paroreomyza maculata                | Oahu Creeper                         | E            | Bird     | USARPAC | 1            | Kahuku TA            | Onsite             | No                               |
|                                     |                                      |              |          | USARPAC | 1            | Kawailoa TA          | Onsite             | No                               |
|                                     |                                      |              |          | USARPAC | 1            | Makua                | Onsite             | No                               |
| Pelecanus occidentalis              | Brown Pelican                        | E            | Bird     | ARNG    | 1            | Camp Rilea           | Contiguous         | No                               |
| Percina rex                         | Roanoke Logperch                     | E            | Fish     | ARNG    | 5            | Fort Pickett         | Onsite             | No                               |
| Phlegmariurus nutans                | Wawae'iole                           | E            | Plant    | USARPAC | 1            | Kawailoa TA          | Onsite             | No                               |
| Phyllostegia hirsuta                | None                                 | E            | Plant    | USARPAC | 1            | Kahuku TA            | Onsite             | No                               |
|                                     |                                      |              |          | USARPAC | 1            | Kawailoa TA          | Onsite             | No                               |
|                                     |                                      |              |          | USARPAC | 1            | Schofield Barracks   | Onsite             | No                               |
| Phyllostegia kaalaensis             | None                                 | E            | Plant    | USARPAC | 1            | Schofield Barracks   | Contiguous         | No                               |
| Phyllostegia mollis                 | None                                 | E            | Plant    | USARPAC | 1            | Schofield Barracks   | Onsite             | No                               |
| Picoides borealis                   | Red-cockaded Woodpecker              | E            | Bird     | ARNG    | 4            | Camp Beaugard        | Contiguous         | No                               |
|                                     |                                      |              |          | ARNG    | 4            | Camp Blanding        | Onsite             | No                               |
|                                     |                                      |              |          | ARNG    | 4            | Camp Shelby          | Contiguous         | No                               |
|                                     |                                      |              |          | ARNG    | 4            | Leesburg TS          | Onsite             | No                               |
|                                     |                                      |              |          | FORSCOM | 4            | Fort Bragg           | Onsite             | No                               |
|                                     |                                      |              |          | FORSCOM | 4            | Fort Polk            | Onsite             | No                               |
|                                     |                                      |              |          | FORSCOM | 4            | Fort Stewart         | Onsite             | No                               |
|                                     |                                      |              |          | MTMC    | 4            | Sunny Point          | Onsite             | No                               |
|                                     |                                      |              |          | TRADOC  | 4            | Fort Benning         | Onsite             | No                               |
| TRADOC                              | 4                                    | Fort Gordon  | Onsite   | No      |              |                      |                    |                                  |
| TRADOC                              | 4                                    | Fort Jackson | Onsite   | No      |              |                      |                    |                                  |
| Piperia yadonii                     | Yadon's Piperia                      | E            | Plant    | TRADOC  | 1            | Presidio of Monterey | Onsite             | No                               |
| Pituophis melanoleucus lodingi      | Black Pine Snake                     | C            | Reptile  | ARNG    | 4            | Camp Shelby          | Contiguous         | No                               |
| Plantago princeps var princeps      | Laukahi kuahiwi                      | E            | Plant    | USARPAC | 1            | Makua                | Onsite             | No                               |
|                                     |                                      |              |          | USARPAC | 1            | Schofield Barracks   | Onsite             | No                               |
| Plethobasus cooperianus             | Orange-foot Pimple Back Pearlymussel | E            | Clam     | FORSCOM | 4            | Fort Campbell        | Contiguous         | No                               |
| Pleurobema plenum                   | Rough Pigtoe                         | E            | Clam     | FORSCOM | 4            | Fort Campbell        | Contiguous         | No                               |
| Portulaca sclerocarpa               | Po'e                                 | E            | Plant    | USARPAC | 1            | Pohakuloa TA         | Onsite             | No                               |
| Pritchardia kaalae                  | Loulou                               | E            | Plant    | USARPAC | 1            | Makua                | Onsite             | No                               |
|                                     |                                      |              |          | USARPAC | 1            | Schofield Barracks   | Onsite             | No                               |
| Pteris lidgatei                     | None                                 | E            | Plant    | USARPAC | 1            | Kawailoa TA          | Onsite             | No                               |
|                                     |                                      |              |          | USARPAC | 1            | Schofield Barracks   | Onsite             | No                               |
| Pterodroma phaeopygia sandwichensis | Hawaiian Dark-rumped Petrel          | E            | Bird     | USARPAC | 1            | Pohakuloa TA         | Onsite             | No                               |
| Ptilimnium nodosum                  | Harperella                           | E            | Plant    | ARNG    | 5            | Lil Aaron Strauss    | Onsite             | No                               |
| Pyrgulopsis thompsoni               | Huachuca Springsnail                 | C            | Snail    | TRADOC  | 2            | Fort Huachuca        | Onsite             | No                               |

| Scientific Name                  | Common Name                  | Fed Stat | Category     | MACOM   | USFWS Region | Installation               | Onsite/ Contiguous | Critical Habitat on Installation |
|----------------------------------|------------------------------|----------|--------------|---------|--------------|----------------------------|--------------------|----------------------------------|
| <i>Quadrula fragosa</i>          | Winged Mapleleaf Mussel      | E        | Clam         | FORSCOM | 4            | Fort Campbell              | Contiguous         | No                               |
| <i>Rana aurora draytonii</i>     | California Red-legged Frog   | T        | Reptile      | ARNG    | 1            | Camp San Luis Obispo       | Onsite             | No                               |
|                                  |                              |          |              | TRADOC  | 1            | Presidio of Monterey Annex | Onsite             | No                               |
|                                  |                              |          |              | USARC   | 1            | Fort Hunter Liggett        | Contiguous         | No                               |
|                                  |                              |          |              | USARC   | 1            | Parks RFTA                 | Onsite             | No                               |
| <i>Rhadine exilis</i>            | <i>Rhadine exilis</i>        | E        | Invertebrate | MEDCOM  | 3            | Camp Bullis                | Onsite             | No                               |
| <i>Rhadine infernalis</i>        | <i>Rhadine infernalis</i>    | E        | Invertebrate | MEDCOM  | 3            | Camp Bullis                | Onsite             | No                               |
| <i>Rhododendron chapmanii</i>    | Chapman Rhododendron         | E        | Plant        | ARNG    | 4            | Camp Blanding              | Onsite             | No                               |
| <i>Rhus michauxii</i>            | Michaux's Sumac              | E        | Plant        | ARNG    | 5            | Fort Pickett               | Onsite             | No                               |
|                                  |                              |          |              | FORSCOM | 4            | Fort Bragg                 | Contiguous         | No                               |
| <i>Sanicula mariveresa</i>       | None                         | E        | Plant        | USARPAC | 1            | Makua                      | Onsite             | No                               |
| <i>Sanicula purpurea</i>         | None                         | E        | Plant        | USARPAC | 1            | Kawailoa TA                | Onsite             | No                               |
|                                  |                              |          |              | USARPAC | 1            | Schofield Barracks         | Onsite             | No                               |
| <i>Scaphirhynchus albus</i>      | Pallid Sturgeon              | E        | Fish         | ARNG    | 6            | Camp Ashland               | Contiguous         | No                               |
| <i>Schiedea hookeri</i>          | None                         | E        | Plant        | USARPAC | 1            | Makua                      | Onsite             | No                               |
|                                  |                              |          |              | USARPAC | 1            | Schofield Barracks         | Contiguous         | No                               |
| <i>Schiedea kealiae</i>          | Ma`oli`oli                   | E        | Plant        | USARPAC | 1            | Dillingham                 | Onsite             | No                               |
| <i>Schiedea nuttallii</i>        | None                         | E        | Plant        | USARPAC | 1            | Makua                      | Onsite             | No                               |
| <i>Schwalbea americana</i>       | American Chaffseed           | E        | Plant        | FORSCOM | 4            | Fort Bragg                 | Contiguous         | No                               |
| <i>Scutellaria montana</i>       | Large-flowered Skullcap      | E        | Plant        | AMC     | 4            | Volunteer AAP              | Onsite             | No                               |
| <i>Sesbania tomentosa</i>        | `Ohai                        | E        | Plant        | ARNG    | 1            | Kanaio WETS                | Onsite             | No                               |
| <i>Sidalcea nelsoniana</i>       | Nelson's Checker-mallow      | T        | Plant        | ARNG    | 1            | Camp Adair                 | Onsite             | No                               |
| <i>Silene hawaiiensis</i>        | Hawaiian Catchfly            | T        | Plant        | USARPAC | 1            | Pohakuloa TA               | Onsite             | No                               |
| <i>Silene lanceolata</i>         | Lance-leaf Catchfly          | E        | Plant        | USARPAC | 1            | Makua                      | Onsite             | No                               |
|                                  |                              |          |              | USARPAC | 1            | Pohakuloa TA               | Onsite             | No                               |
| <i>Solanum incompletum</i>       | Popolo ku mai                | E        | Plant        | USARPAC | 1            | Pohakuloa TA               | Onsite             | No                               |
| <i>Solidago houghtonii</i>       | Houghton's Goldenrod         | T        | Plant        | ARNG    | 3            | Camp Grayling              | Onsite             | No                               |
| <i>Somateria fischeri</i>        | Spectacled Eider             | T        | Bird         | ARNG    | 7            | STARC - AK                 | Contiguous         | No                               |
| <i>Spermolepis hawaiiensis</i>   | Hawaiian Parsley             | E        | Plant        | USARPAC | 1            | Makua                      | Onsite             | No                               |
|                                  |                              |          |              | USARPAC | 1            | Pohakuloa TA               | Onsite             | No                               |
| <i>Speyeria zerene hippolyta</i> | Oregon Silverspot Butterfly  | T        | Invertebrate | ARNG    | 1            | Camp Rilea                 | Onsite             | No                               |
| <i>Spiranthes delitescens</i>    | Canelo Hills Ladies'-tresses | E        | Plant        | TRADOC  | 2            | Fort Huachuca              | Contiguous         | No                               |
| <i>Spiranthes diluvialis</i>     | Ute Ladies'-tresses          | T        | Plant        | FORSCOM | 6            | Fort Carson                | Contiguous         | No                               |

| Scientific Name                                      | Common Name            | Fed Stat | Category | MACOM   | USFWS Region | Installation          | Onsite/ Contiguous | Critical Habitat on Installation |
|--|------------------------|----------|----------|---------|--------------|-----------------------|--------------------|----------------------------------|
| <i>Stenogyne angustifolia</i>                        | Creeping Mint          | E        | Plant    | USARPAC | 1            | Pohakuloa TA          | Onsite             | No                               |
| <i>Sterna antillarum</i>                             | Least Tern             | E        | Bird     | ARNG    | 6            | Camp Ashland          | Contiguous         | No                               |
|  |                        |          |          | ARNG    | 3            | Ike Skeleton TS       | Onsite             | No                               |
|  |                        |          |          | ATEC    | 2            | White Sands           | Onsite             | No                               |
|  |                        |          |          | FORSCOM | 6            | Fort Riley            | Onsite             | No                               |
| <i>Strix occidentalis caurina</i>                    | Northern Spotted Owl   | T        | Bird     | ARNG    | 1            | Camp Adair            | Contiguous         | No                               |
|  |                        |          |          | ARNG    | 1            | Camp Rilea            | Contiguous         | No                               |
|  |                        |          |          | FORSCOM | 1            | Fort Lewis            | Contiguous         | Yes                              |
| <i>Strix occidentalis lucida</i>                     | Mexican Spotted Owl    | T        | Bird     | ARNG    | 2            | Camp Navajo           | Contiguous         | Yes                              |
|  |                        |          |          | ATEC    | 2            | White Sands           | Onsite             | No                               |
|  |                        |          |          | FORSCOM | 6            | Fort Carson           | Onsite             | No                               |
|  |                        |          |          | TRADOC  | 2            | Fort Huachuca         | Onsite             | Yes                              |
| <i>Tetramolopium arenarium</i>                       | Mauna Kea Pamakani     | E        | Plant    | USARPAC | 1            | Pohakuloa TA          | Onsite             | No                               |
| <i>Tetramolopium filiforme</i>                       | None                   | E        | Plant    | USARPAC | 1            | Makua                 | Onsite             | No                               |
| <i>Tetraplasandra gymnocarpa</i>                     | `Ohe`ohe               | E        | Plant    | USARPAC | 1            | Kahuku TA             | Onsite             | No                               |
|  |                        |          |          | USARPAC | 1            | Kawailoa TA           | Onsite             | No                               |
|  |                        |          |          | USARPAC | 1            | Schofield Barracks    | Onsite             | No                               |
| <i>Thalictrum cooleyi</i>                            | Cooley's Meadowrue     | E        | Plant    | MTMC    | 4            | Sunny Point           | Contiguous         | No                               |
| <i>Trichechus manatus</i>                            | West Indian Manatee    | E        | Mammal   | MTMC    | 4            | Sunny Point           | Contiguous         | No                               |
| <i>Trifolium stoloniferum</i>                        | Running Buffalo Clover | E        | Plant    | AMC     | 4            | Blue Grass Army Depot | Onsite             | No                               |
| <i>Trillium reliquum</i>                             | Relict Trillium        | E        | Plant    | TRADOC  | 4            | Fort Benning          | Onsite             | No                               |
| <i>Urera kaalae</i>                                  | Opuhe                  | E        | Plant    | USARPAC | 1            | Schofield Barracks    | Onsite             | No                               |
| <i>Viola chamissoniana</i> ssp. <i>chamissoniana</i> | Pamakani               | E        | Plant    | USARPAC | 1            | Makua                 | Onsite             | No                               |
|  |                        |          |          | USARPAC | 1            | Schofield Barracks    | Onsite             | No                               |
| <i>Viola oahuensis</i>                               | None                   | E        | Plant    | USARPAC | 1            | Kawailoa TA           | Onsite             | No                               |
|  |                        |          |          | USARPAC | 1            | Schofield Barracks    | Onsite             | No                               |
| <i>Vireo atricapillus</i>                            | Black-capped Vireo     | E        | Bird     | ARNG    | 3            | Camp Barkeley         | Onsite             | No                               |
|  |                        |          |          | ARNG    | 2            | STARC - TX            | Onsite             | No                               |
|  |                        |          |          | FORSCOM | 2            | Fort Hood             | Onsite             | No                               |
|  |                        |          |          | MEDCOM  | 2            | Camp Bullis           | Onsite             | No                               |
|  |                        |          |          | MEDCOM  | 2            | Fort Sam Houston      | Onsite             | No                               |
|  |                        |          |          | TRADOC  | 2            | Fort Sill             | Onsite             | No                               |
| <i>Vireo bellii pusillus</i>                         | Least Bell's Vireo     | E        | Bird     | ARNG    | 1            | Camp Roberts TS       | Contiguous         | No                               |
|  |                        |          |          | ARNG    | 1            | Camp San Luis Obispo  | Contiguous         | No                               |
|  |                        |          |          | USARC   | 1            | Fort Hunter Liggett   | Contiguous         | No                               |
| <i>Vulpes macrotis mutica</i>                        | San Joaquin Kit Fox    | E        | Mammal   | ARNG    | 1            | Camp Roberts TS       | Onsite             | No                               |
|  |                        |          |          | USARC   | 1            | Fort Hunter Liggett   | Onsite             | No                               |



| Scientific Name         | Common Name                   | Fed Stat | Category | MACOM   | USFWS Region | Installation   | Onsite/ Contiguous | Critical Habitat on Installation |
|-------------------------|-------------------------------|----------|----------|---------|--------------|----------------|--------------------|----------------------------------|
| Vulpes velox            | Swift Fox                     | C        | Mammal   | AMC     | 6            | Pueblo Depot   | Onsite             | No                               |
|                         |                               |          |          | ARNG    | 6            | Camp Ashland   | Contiguous         | No                               |
| Xyris tennesseensis     | Tennessee Yellow-eyed Grass   | E        | Plant    | AMC     | 4            | Anniston AD    | Onsite             | No                               |
|                         |                               |          |          | ARNG    | 4            | Fort McClellan | Onsite             | No                               |
| Zanthoxylum hawaiiense  | A`e                           | E        | Plant    | USARPAC | 1            | Pohakuloa TA   | Onsite             | No                               |
| Zapus hudsonius preblei | Preble's Meadow Jumping Mouse | T        | Mammal   | FORSCOM | 6            | Fort Carson    | Contiguous         | No                               |

# Appendix C: ESMP Status and Installation Location

| USFWS Region | STATE      | MACOM      | INSTALLATION                            | ESMP STATUS                     |                                 |
|--------------|------------|------------|---|---------------------------------|---------------------------------|
| 1            | California | AMC        | Riverbank AAP                           | Not Required                    |                                 |
|              |            | AMC        | Sierra Depot                            | Not Required                    |                                 |
|              |            | ARNG       | Camp Roberts TS                         | Not Required                    |                                 |
|              |            | ARNG       | Santa Cruz Armory                       | Did Not Report                  |                                 |
|              |            | FORSCOM    | Fort Irwin                              | Partially Complete $\geq$ 60%   |                                 |
|              |            | TRADOC     | Presidio, Monterey                      | Complete                        |                                 |
|              |            | TRADOC     | Presidio, Monterey Annex                | Complete                        |                                 |
|              |            | USARC      | 63RD RSC HQ                             | Complete                        |                                 |
|              |            | USARC      | Fort Hunter-Liggett                     | Partially Complete $\geq$ 60%   |                                 |
|              |            | USARC      | Parks RFTA                              | Partially Complete $\geq$ 60%   |                                 |
|              |            | ARNG       | Camp San Luis Obispo                    | Did Not Report                  |                                 |
|              |            | Hawaii     | ARNG                                    | Fort Ruger                      | Partially Complete $\geq$ 60%   |
|              | ARNG       |            | Kanaio WETS                             | Complete                        |                                 |
|              | ARNG       |            | Keaukaha Military Reservation           | Complete                        |                                 |
|              | ARNG       |            | Ukumehame Firing Range                  | Complete                        |                                 |
|              | USARPAC    |            | Dillingham Mil Res                      | Partially Complete $\geq$ 60%   |                                 |
|              | USARPAC    |            | Kahuku TA                               | Partially Complete >0% but <60% |                                 |
|              | USARPAC    |            | Kawailoa TA                             | Partially Complete >0% but <60% |                                 |
|              | USARPAC    |            | Makua Military Reservation              | Partially Complete $\geq$ 60%   |                                 |
|              | USARPAC    |            | Pohakuloa TA                            | Did Not Report                  |                                 |
|              | USARPAC    |            | Schofield Barracks Military Reservation | Partially Complete $\geq$ 60%   |                                 |
|              | Idaho      | ARNG       | Orchard Range TS                        | Not Required                    |                                 |
|              | Nevada     | ARNG       | Clark County TA                         | Did Not Report                  |                                 |
|              |            | ARNG       | Stead TS                                | Not initiated (0% complete)     |                                 |
|              | Oregon     | ARNG       | Camp Adair                              | Partially Complete $\geq$ 60%   |                                 |
|              |            | ARNG       | Camp Rilea                              | Complete                        |                                 |
|              | Washington | ARNG       | Camp Murray                             | Complete                        |                                 |
|              |            | FORSCOM    | Fort Lewis                              | Partially Complete $\geq$ 60%   |                                 |
|              |            | FORSCOM    | Yakima TC                               | Complete                        |                                 |
|              |            | USARC      | 70TH RSC HQ                             | Not initiated (0% complete)     |                                 |
|              | 2          | Arizona    | ARNG                                    | Camp Navajo                     | Not Required                    |
|              |            |            | ARNG                                    | Florence Military Reservation   | Not initiated (0% complete)     |
|              |            |            | ARNG                                    | Marana SBAH Facilities          | Not Required                    |
|              |            |            | TRADOC                                  | Fort Huachuca                   | Partially Complete $\geq$ 60%   |
|              |            | New Mexico | ATEC                                    | White Sands Missile Range       | Partially Complete >0% but <60% |

| <b>USFWS<br/>Region</b> | <b>STATE</b>    | <b>MACOM</b>    | <b>INSTALLATION</b>        | <b>ESMP STATUS</b>              |                          |
|-------------------------|-----------------|-----------------|----------------------------|---------------------------------|--------------------------|
| <b>2</b>                | <b>Oklahoma</b> | AMC             | McAlester AAP              | Complete                        |                          |
|                         |                 | ARNG            | Camp Gruber TS             | Not Required                    |                          |
|                         |                 | TRADOC          | Fort Sill                  | Complete                        |                          |
|                         | <b>Texas</b>    | AMC             | Longhorn AAP               | Not Required                    |                          |
|                         |                 | ARNG            | Addicks Reservoir TS       | Did Not Report                  |                          |
|                         |                 | ARNG            | Barker Dam WETS            | Did Not Report                  |                          |
|                         |                 | ARNG            | Camp Barkley               | Partially Complete ≥ 60%        |                          |
|                         |                 | ARNG            | STARC-TX                   | Partially Complete ≥ 60%        |                          |
|                         |                 | FORSCOM         | Fort Hood                  | Did Not Report                  |                          |
|                         |                 | MEDCOM          | Camp Bullis                | Partially Complete >0% but <60% |                          |
|                         |                 | MEDCOM          | Fort Sam Houston           | Partially Complete ≥ 60%        |                          |
|                         | TRADOC          | Fort Bliss      | Partially Complete ≥ 60%   |                                 |                          |
|                         | <b>3</b>        | <b>Illinois</b> | AMC                        | Rock Island Arsenal             | Complete                 |
| <b>Indiana</b>          |                 | AMC             | Indiana AAP                | Complete                        |                          |
|                         |                 | AMC             | Newport Chemical Activity  | Complete                        |                          |
|                         |                 | ARNG            | Atterbury TS               | Partially Complete ≥ 60%        |                          |
| <b>Iowa</b>             |                 | AMC             | Iowa AAP                   | Partially Complete ≥ 60%        |                          |
| <b>Michigan</b>         |                 | ARNG            | Camp Grayling              | Complete                        |                          |
| <b>Minnesota</b>        |                 | ARNG            | Camp Ripley                | Complete                        |                          |
| <b>Missouri</b>         |                 | ARNG            | Camp Crowder               | Complete                        |                          |
|                         |                 | ARNG            | Ike Skelton Training Site  | Did Not Report                  |                          |
|                         |                 | ARNG            | Macon TS                   | Not Required                    |                          |
|                         |                 | ARNG            | Truman TS                  | Not Required                    |                          |
|                         |                 | TRADOC          | Fort Leonard Wood          | Partially Complete ≥ 60%        |                          |
| <b>Ohio</b>             |                 | AMC             | Ravenna AAP                | Not Required                    |                          |
| <b>Wisconsin</b>        |                 | ARNG            | Wisconsin Military Academy | Not Required                    |                          |
|                         |                 | USARC           | Fort McCoy                 | Partially Complete ≥ 60%        |                          |
| <b>4</b>                |                 | <b>Alabama</b>  | AMC                        | Anniston Army Depot             | Complete                 |
|                         |                 |                 | AMC                        | Redstone ARS                    | Partially Complete ≥ 60% |
|                         | ARNG            |                 | Fort McClellan             | Partially Complete >0% but <60% |                          |
|                         | TRADOC          |                 | Fort Rucker                | Not Required                    |                          |
|                         | USARC           |                 | 81ST RSC HQ                | Complete                        |                          |
|                         | <b>Arkansas</b> | ARNG            | Camp Robinson              | Not Required                    |                          |
|                         |                 | ARNG            | Fort Chaffee               | Complete                        |                          |

| <b>USFWS<br/>Region</b> | <b>STATE</b>          | <b>MACOM</b>  | <b>INSTALLATION</b>              | <b>ESMP STATUS</b>              |
|-------------------------|-----------------------|---------------|----------------------------------|---------------------------------|
| <b>4</b>                | <b>Florida</b>        | ARNG          | Camp Blanding                    | Partially Complete ≥ 60%        |
|                         | <b>Georgia</b>        | FORSCOM       | Fort Stewart                     | Partially Complete ≥ 60%        |
|                         |                       | TRADOC        | Fort Benning                     | Partially Complete ≥ 60%        |
|                         |                       | TRADOC        | Fort Gordon                      | Partially Complete ≥ 60%        |
|                         | <b>Kentucky</b>       | AMC           | Bluegrass Army Depot             | Complete                        |
|                         |                       | ARNG          | Wendall Ford Regional TC         | Not Required                    |
|                         |                       | FORSCOM       | Fort Campbell                    | Partially Complete ≥ 60%        |
|                         |                       | TRADOC        | Fort Knox                        | Complete                        |
|                         | <b>Louisiana</b>      | AMC           | Louisiana AAP                    | Not Required                    |
|                         |                       | ARNG          | Camp Beauregard                  | Not Required                    |
|                         |                       | FORSCOM       | Fort Polk                        | Partially Complete ≥ 60%        |
|                         | <b>Mississippi</b>    | ARNG          | Camp Shelby                      | Partially Complete ≥ 60%        |
|                         | <b>North Carolina</b> | FORSCOM       | Fort Bragg                       | Complete                        |
|                         |                       | MTMC          | Mil Ocean Term Sunny Pt          | Partially Complete ≥ 60%        |
|                         | <b>Puerto Rico</b>    | USARSO        | Fort Buchanan                    | Complete                        |
| <b>South Carolina</b>   | ARNG                  | Leesburg TS   | Partially Complete ≥ 60%         |                                 |
|                         | TRADOC                | Fort Jackson  | Partially Complete ≥ 60%         |                                 |
| <b>Tennessee</b>        | AMC                   | Holston AAP   | Complete                         |                                 |
|                         | AMC                   | Volunteer AAP | Complete                         |                                 |
|                         | ARNG                  | Tullahoma TS  | Partially Complete ≥ 60%         |                                 |
| <b>5</b>                | <b>Maryland</b>       | AMC           | Aberdeen Proving Ground          | Complete                        |
|                         |                       | AMC           | Adelphi Laboratory Center        | Complete                        |
|                         |                       | ARNG          | Lil Aaron Straus Wilderness Area | Did Not Report                  |
|                         | <b>Massachusetts</b>  | USARC         | Devens RFTA                      | Not Required                    |
|                         | <b>New Hampshire</b>  | ARNG          | New Hampshire NG TS              | Did Not Report                  |
|                         |                       | ARNG          | NH State Military Reservation    | Did Not Report                  |
|                         | <b>New Jersey</b>     | AMC           | ARDEC                            | Partially Complete >0% but <60% |
|                         | <b>New York</b>       | ARNG          | Camp Smith TS                    | Not Required                    |
|                         |                       | FORSCOM       | Fort Drum                        | Not Required                    |
|                         |                       | USMA          | West Point Military Reservation  | Complete                        |
|                         | <b>Pennsylvania</b>   | AMC           | Letterkenny Depot                | Partially Complete ≥ 60%        |

| <b>USFWS<br/>Region</b> | <b>STATE</b>        | <b>MACOM</b>  | <b>INSTALLATION</b>        | <b>ESMP STATUS</b>              |              |
|-------------------------|---------------------|---------------|----------------------------|---------------------------------|--------------|
| <b>5</b>                | <b>Virginia</b>     | ARNG          | Fort Pickett               | Did Not Report                  |              |
|                         |                     | MDW           | A. P. Hill                 | Partially Complete $\geq$ 60%   |              |
|                         |                     | MDW           | Fort Belvoir               | Partially Complete $\geq$ 60%   |              |
|                         |                     | TRADOC        | Fort Eustis                | Complete                        |              |
|                         |                     | TRADOC        | Fort Lee                   | Complete                        |              |
| <b>6</b>                | <b>Colorado</b>     | AMC           | Pueblo Depot Activity      | Partially Complete $\geq$ 60%   |              |
|                         |                     | FORSCOM       | Fort Carson                | Partially Complete $\geq$ 60%   |              |
|                         |                     | FORSCOM       | Pinon Canyon Maneuver Slte | Did Not Report                  |              |
|                         | <b>Kansas</b>       | AMC           | Sunflower AAP              | Not Required                    |              |
|                         |                     | ARNG          | Salina Smokey Hill TA      | Not Required                    |              |
|                         |                     | FORSCOM       | Fort Riley                 | Complete                        |              |
|                         |                     | TRADOC        | Fort Leavenworth           | Not Required                    |              |
|                         | <b>Montana</b>      | ARNG          | Fort Harrison              | Not Required                    |              |
|                         | <b>Nebraska</b>     | ARNG          | Camp Ashland               | Partially Complete >0% but <60% |              |
|                         |                     | ARNG          | Hastings TS                | Partially Complete >0% but <60% |              |
|                         | <b>North Dakota</b> | ARNG          | TS Garrison                | Partially Complete $\geq$ 60%   |              |
|                         | <b>Utah</b>         | AMC           | Deseret Chemical Depot     | Not Required                    |              |
|                         |                     | ARNG          | Camp Williams              | Not Required                    |              |
|                         |                     | ARNG          | Cedar City Armory          | Did Not Report                  |              |
|                         |                     | ARNG          | St. George Armory          | Did Not Report                  |              |
|                         |                     | ARNG          | STARC-UT                   | Not Required                    |              |
|                         | <b>Wyoming</b>      | ARNG          | Camp Guernsey              | Not Required                    |              |
|                         |                     | ARNG          | Sheridan LTA               | Not Required                    |              |
|                         | <b>7</b>            | <b>Alaska</b> | ARNG                       | STARC-AK                        | Not Required |

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