

# **Installation Summaries from the FY 2001 Survey of Threatened and Endangered Species on Army Lands**

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

**This report (part of a continuing series) summarizes the Army's Threatened and Endangered species data. They are collected from various sources, including the Army's Environmental Quality Report (EQR), U.S. Fish and Wildlife Service (FWS), HQDA, MACOMs, and Army installations. Installation-level data provides information on Federally-listed species occurrences,**

**onsite or contiguous to each installation. Species-level data lists all installations on which each species occurs. Corresponding information on Federal status, critical habitat, consultations, Endangered Species Management Plans (ESMPs), Threatened and Endangered Species Planning Level Surveys (PLSs), and Threatened and Endangered Species Expenditures are provided.**



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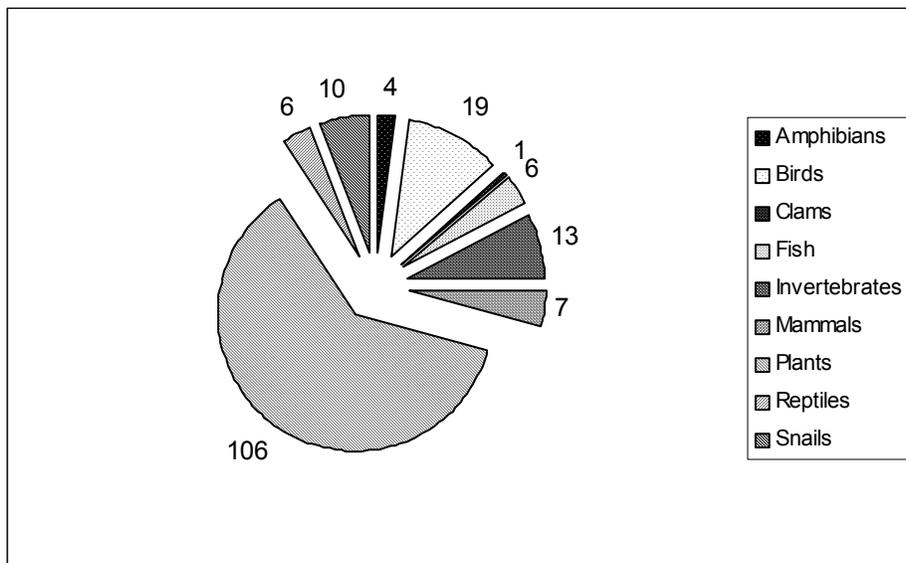
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# 1 Executive Summary

As of October 1, 2001, the Army has 172 distinct Federally Threatened or Endangered (T&E) species on 99 installations. Figure 1 shows the breakdown by category of the onsite<sup>1</sup> T&E species for Fiscal Year (FY) 2001. The Army has 12 installations with designated critical habitat occurring for one or more species. By the end of FY 2001, the Army had completed 38 Threatened and/or Endangered Species Management Plans for onsite listed species.

In FY 2001, the Army spent over \$18 million dollars on T&E species management. This figure includes Endangered Species Act (ESA) reportable expenses<sup>2</sup> of \$15.5 million dollars, including both onsite and contiguous<sup>3</sup> species. In addition, \$2.6 million dollars was spent on non-reportable expenses<sup>4</sup> for onsite and contiguous species. These monetary figures do not include dollars that are expended by military operations for work-arounds and avoidance. Figure 2 shows reportable expenses from FY 1990-2001. Table 1 shows the top ten species, in terms of expenditures, for FY 2001.



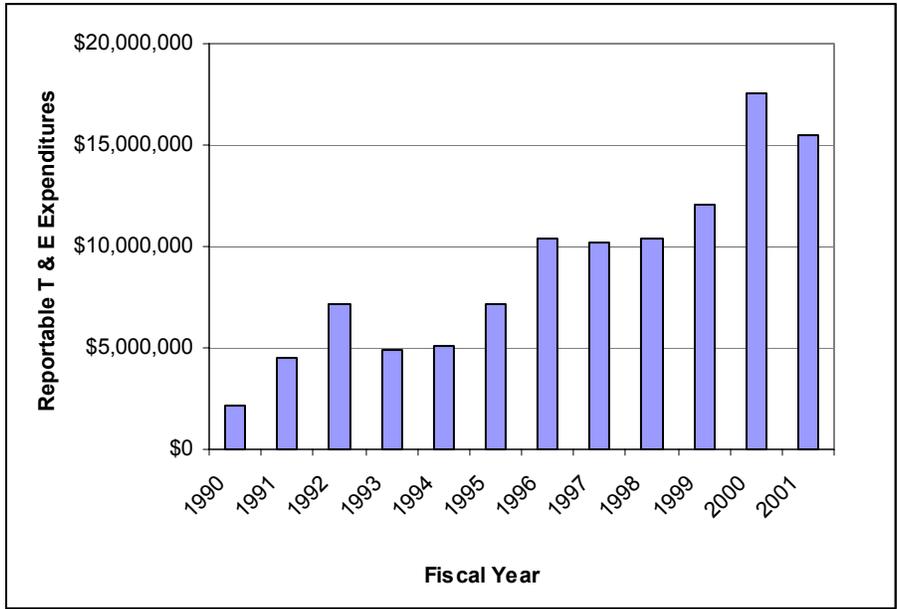
**Figure 1. Onsite T&E by Category for FY 2001.**

<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.



**Figure 2. Reportable T&E Expenditures from FY 1990-2001.**

**Table 1. Army's Top T&E Expenditures for FY 2001.**

Top Expenditures for FY 2001	
Species Common Name	Reportable Expenditures (\$K)
Red-cockaded Woodpecker	4,587.7
Black-capped Vireo	1,433.0
Golden-cheeked Warbler	1,364.0
Palila	720.9
Desert Tortoise	613.2
Bald Eagle	514.2
Gray Bat	497.8
Indiana Bat	496.8
Southwestern Willow Flycatcher	477.6
Cactus Ferruginous Pygmy-owl	304.0

## **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 ESA to conserve the threatened and endangered species that occur on the lands where it conducts the training of soldiers and testing of weapons. 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 Headquarters, Department of the Army (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 2001 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 ESA while carrying out its military mission.

### **Approach**

Information summarized by this report is collected from the EQR and other sources. TES-related EQR questions include Federal status, presence of critical habitat, number of informal/formal 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. Other data and clarifications are gathered from the US Fish and Wildlife Service (FWS), National Marine Fisheries Service (NMFS), HQDA, Major Commands (MACOMs), and Army installations.

### **Scope**

This report encompasses all Army installations with Federally-listed onsite or contiguous species as of late FY 2001. Federally-listed species include: 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. Data in this report may not be reflective of current installation summaries, as this data is of a dynamic nature. The Army Environmental Center tracks the interim status of all information including new Federal listings, species status, and critical habitat designations on Army lands. For up-to-date information contact the HQDA point of contact.

### 3 Changes From the FY 2000 TES Survey

#### New Species Reported

Table 2 reflects species reported by installations for the first time in FY 2001. Thirty-four species were added to installation reporting since the FY 2000 published report. The breakdown by category includes: 1 amphibian, 1 reptile, 1 clam, 1 mammal, 2 birds, 3 fish, 4 invertebrates, and 21 plants. By Federal status, new species to Army reporting include: 18 Candidate species, 12 Endangered, 3 Threatened, and 1 Proposed Threatened species.

**Table 2. Species reported in FY 2001 that were not reported in FY 2000.**

Scientific Name	Common Name	Category	2001
<i>Antilocapra americana</i>	Sonoran pronghorn	Mammal	E
<i>Centrocercus urophasianus phaios</i>	Western sage grouse	Bird	C
<i>Coccyzus americanus</i>	Yellow-billed cuckoo	Bird	C
<i>Cyanea humboldtiana</i>	Haha	Plant	E
<i>Cyanea lanceolata</i>	Haha	Plant	C
<i>Etheostoma sellare</i>	Maryland darter	Fish	E
<i>Festuca hawaiiensis</i>	None	Plant	C
<i>Hedyotis degeneri</i>	None	Plant	E
<i>Hedyotis fluviatilis</i>	Kampua`a	Plant	C
<i>Isodendron longifolium</i>	Aupaka	Plant	T
<i>Korthalsella degeneri</i>	Hulumoa	Plant	C
<i>Lampsilis higginsii</i>	Higgins Eye pearlymussel	Clam	E
<i>Meda fulgida</i>	Spikedace	Fish	T
<i>Megalagrion xanthomelas</i>	Orangeback Hawaiian damselfly	Invertebrate	C
<i>Melicope hiiakae</i>	Alani	Plant	C
<i>Myrsine fosbergii</i>	Kolea	Plant	C
<i>Nothoestrum latifolium</i>	`Aiea	Plant	C
<i>Platydesma cornuta cornuta</i>	None	Plant	C
<i>Platydesma cornuta descurrens</i>	None	Plant	C
<i>Pleomele forbesii</i>	Hala pepe	Plant	C
<i>Psychotris hexandra</i> spp. oahuensis	Kopiko	Plant	C
<i>Pteralyxia macrocarpa</i>	Kaulu	Plant	C
<i>Rana chiricahuensis</i>	Chiricahua leopard frog	Amphibian	PT
<i>Rhinichthys cobitis</i>	Loach minnow	Fish	T
<i>Sarracenia oreophila</i>	Green pitcher-plant	Plant	E
<i>Sarracenia rubra alabamensis</i>	Alabama canebrake pitcher-plant	Plant	E
<i>Sarracenia rubra</i> spp. Jonesii	Mountain sweet pitcher-plant	Plant	E
<i>Schiedea adamantis</i>	Ma`oli`oli	Plant	E
<i>Sistrurus catenatus</i>	Eastern massagua	Reptile	C

Scientific Name	Common Name	Category	2001
<i>Texella cokendolpheri</i>	Robber Baron Cave harvestman	Invertebrate	E
<i>Texella reddelli</i>	Bee Creek Cave harvestman	Invertebrate	E
<i>Texella reyesi</i>	Bone Cave harvestman	Invertebrate	E
<i>Thelypteris boydiae</i>	None	Plant	C
<i>Zanthoxylum oahuense</i>	A`e	Plant	C

### Species Removed from Installations Reporting TES in FY 2001

Table 3 represents the species no longer reported on any Army installation, in FY 2001, due to withdrawal from consideration, new distribution information, or installation closures. Fourteen species were removed from a total of ten installations.

**Table 3. Species removed from installation reporting in FY 2001.**

Scientific Name	Common Name	Category	2000	2001
<i>Abutilon sandwicense</i>	None	Plant	E	E
<i>Anas wyvilliana</i>	Hawaiian duck	Bird	E	E
<i>Corvus hawaiiensis</i>	Hawaiian Crow	Bird	E	E
<i>Cyanea grimesiana</i> spp. <i>grimesiana</i>	Haha	Plant	E	E
<i>Cyprogenia stegaria</i>	Fanshell	Clam	E	E
<i>Etheostoma cragini</i>	Arkansas darter	Fish	C	E
<i>Felis concolor</i>	Mountain lion	Mammal	T(S/A)	T(S/A)
<i>Felis concolor coryi</i>	Florida panther	Mammal	E	E
<i>Isodendron laurifolium</i>	Aupaka	Plant	E	E
<i>Oncorhynchus clarki stomias</i>	Greenback cutthroat trout	Fish	T(S/A)	T(S/A)
<i>Oreomystis mana</i>	Hawaii Creeper	Bird	E	E
<i>Phyllostegia kaalaensis</i>	None	Plant	E	E
<i>Spiranthes delitescens</i>	Canelo Hills Ladies'-tresses	Plant	E	E
<i>Vulpes velox</i>	Swift fox	Mammal	C	Withdrawn

## 4 Summary Information

### Installation and Species Information

Information was collected from a total of 131 installations for the FY 2001 reporting period that have either onsite or contiguous TES. Of those responding, 105 installations (80%) reported onsite TES and 26 installations (20%) reported only having contiguous TES.

Of the 243 distinct species, 70% are Endangered, 17% are Threatened, 11% are Candidates, 1% is Threatened due to similarity of appearance, and 1% is Proposed Threatened (Table 7). By category, 53% of the distinct species are plants, 13% are birds, 7% are invertebrates, 6% are mammals, 6% are reptiles, 5% are fish, 4.5% are snails, 3% are clams, and 2.5% are amphibians (Table 4).

The 131 installations with onsite or contiguous TES include: 57 Army National Guard, 24 Army Materiel Command, 14 Training and Doctrine Command, 11 Forces Command, 7 U.S. Army Reserve Command, 7 U.S. Army Pacific Command, 2 Military District of Washington, 1 Medical Command, 3 Army Test and Evaluation Command, 1 Military Traffic Management Command, 1 U.S. Army South, and 1 U.S. Military Academy. The remaining 2 installations were categorized as Army Corps of Engineers (USACE). These installations are under Base Realignment and Closure (BRAC).

To make more efficient use of its resources and to be more responsive to rapidly changing institutional and operational missions, Headquarters Department of Army (HQDA) is undergoing realignment to become effective October 1, 2002. This realignment has been termed Transformation of Installation Management (TIM). Under TIM, Continental United States (CONUS) installations, excluding the National Guard installations, are divided into 5 regions; Northeast, Northwest, Southeast, Southwest, and Pacific Regions. Of the 131 installations reporting onsite or contiguous TES, 21 installations are located in the Northwest Region, 10 installations in the Northeast, 19 in the Southeast, 17 in the Southwest, and 7 in the Pacific Region. The remaining 57 installations that reported onsite or contiguous TES are part of the National Guard Bureau. Table 5 summarizes the numbers of distinct TES species that occur within each TIM region.

**Table 4. Federal status for distinct onsite or contiguous TES species by category for FY 2001.**

	Candidate	Threatened	Endangered	Proposed Threatened	Threatened due to Similarity of Appearance	Total by Category
<b>Amphibians</b>	1	2	2	1	0	<b>6</b>
<b>Birds</b>	2	7	22	1	0	<b>32</b>
<b>Clams</b>	0	0	8	0	0	<b>8</b>
<b>Fish</b>	0	5	7	0	0	<b>12</b>
<b>Invertebrates</b>	2	3	12	0	0	<b>17</b>
<b>Mammals</b>	1	3	10	0	0	<b>14</b>
<b>Plants</b>	18	15	96	0	0	<b>129</b>
<b>Reptiles</b>	2	7	3	0	2	<b>14</b>
<b>Snails</b>	1	0	10	0	0	<b>11</b>
<b>Total by Federal Status</b>	<b>27</b>	<b>42</b>	<b>170</b>	<b>2</b>	<b>2</b>	<b>243</b>

**Table 5. Federal status for distinct onsite or contiguous TES occurring on each Transformation of Installation Management (TIM) region.**

	Candidate	Threatened	Endangered	Proposed Threatened	Threatened due Similarity of Appearance	Total TES by TIM Region
<b>Northeast</b>	0	4	6	0	0	<b>10</b>
<b>Northwest</b>	3	7	9	1	0	<b>20</b>
<b>Southeast</b>	0	8	29	0	1	<b>38</b>
<b>Southwest</b>	5	12	29	2	1	<b>49</b>
<b>Pacific</b>	16	2	83	0	0	<b>101</b>
<b>National Guard Bureau</b>	5	26	39	0	1	<b>71</b>

**T&E Species**

A total of 214 distinct T&E species (405 occurrences) were identified on 124 of the 131 installations that reported having onsite or contiguous TES. Of the 124 installations, 99 reported having onsite T&E. The remaining 25 installations reported having only contiguous T&E species. Of the 214 distinct T&E species, 172 species occurred onsite and the remaining 42 species were reported as being contiguous to at least one installation and not onsite at any installation (Table 6).

**Table 6. Installations Reporting Threatened & Endangered (T&E) Species for FY 2001.**

	Onsite	Contiguous	Total
<b>Number of Installations</b>	99	25	124
<b>Number of Distinct Species</b>	172	42	214
<b>Number of Species Occurrences</b>	299	106	405

**Proposed and Candidate Species**

A total of 29 distinct Proposed/Candidate species were identified from the 131 installations that reported having onsite or contiguous TES. Seven installations reported having only Proposed and/or Candidate species on or contiguous to their installation. Of the 29 distinct Proposed/Candidate species identified on Army lands, 28 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 7).

**Table 7. Installations Reporting Only Candidate or Proposed Species for FY 2001.**

	Onsite	Contiguous	Total
<b>Number of Installations</b>	6	1	7
<b>Number of Distinct Species</b>	28	1	29

## Critical Habitat

The FWS and the NMFS have designated critical habitat for 155 species, 12 of those species have designations occurring on 12 Army installations in FY 2001 (Table 8). Of the 18 occurrences, 4 of the critical habitat designations are reported on unoccupied habitat.

**Table 8. Critical habitat designated on Army installations, as of FY 2001.**

MACOM	Installation	Federal Status	Category	Scientific Name	Common Name	Species Onsite or Contiguous?
ARNG	Camp Navajo	T	Bird	<i>Strix occidentalis lucida</i>	Mexican spotted owl	Onsite
	Camp Roberts Training Site	T	Fish	<i>Oncorhynchus mykiss</i>	Steelhead (South-Central California Coast ESU)	Onsite
	Camp San Luis Obispo	T	Fish	<i>Oncorhynchus mykiss</i>	Steelhead (South-Central California Coast ESU)	Onsite
	Florence Military Reservation	E	Bird	<i>Glaucidium brasilianum cactorum</i>	Cactus ferruginous pygmy-owl	Contiguous
ATEC <sup>5</sup>	Fort Wingate	T	Bird	<i>Strix occidentalis lucida</i>	Mexican spotted owl	Contiguous
ATEC	White Sands Missile Range	E	Plant	<i>Hedeoma todsenii</i>	Todsen's pennyroyal	Onsite
FORSCOM	Fort Irwin	E	Reptile	<i>Gopherus agassizii</i>	Desert tortoise	Onsite
	Fort Lewis	T	Bird	<i>Strix occidentalis caurina</i>	Northern spotted owl	Contiguous
	Yakima Training Center	E	Fish	<i>Oncorhynchus mykiss</i>	Steelhead (Upper Columbia River ESU)	Onsite
		T	Fish	<i>Oncorhynchus mykiss</i>	Steelhead (Middle Columbia River ESU)	Onsite
		E	Fish	<i>Oncorhynchus tshawytscha</i>	Chinook Salmon (Upper Columbia River Spring-run ESU)	Onsite
TRADOC	Fort Huachuca	E	Plant	<i>Lilaeopsis schaffneriana</i> ssp. <i>Recurva</i>	Huachuca water-umbel	Onsite
		T	Bird	<i>Strix occidentalis lucida</i>	Mexican spotted owl	Onsite
	Presidio of Monterey Annex	T	Bird	<i>Charadrius alexandrinus nivosus</i>	Western snowy plover	Contiguous
USARC	Fort Hunter Liggett	E	Amphibian	<i>Bufo microscaphus californicus</i>	Arroyo southwestern toad	Onsite
USARPAC	Makua Military Reservation	E	Bird	<i>Chasiempis sandwichensis ibidus</i>	Oahu elapaio	Onsite
	Pohakuloa Training Area	E	Bird	<i>Loxoides bailleui</i>	Palila	Onsite
	Schoefield Barracks Military Reservation	E	Bird	<i>Chasiempis sandwichensis ibidus</i>	Oahu elapaio	Onsite

<sup>5</sup> Ft. Wingate is undergoing transfer of ownership and a portion will be retained under White Sands Missile Range.

## **Consultations and Biological Opinions**

Installations reported a total of 282 informal and 36 formal consultations with the USFWS/NMFS in FY 2001. Of the 24 Biological Opinions rendered, 10 (36%) resulted in a Non-Jeopardy Biological Opinion and the remaining 14 (50%) Biological Opinions resulted in a No Opinion Rendered. No Jeopardy Biological Opinions were reported in FY 2001.

## **Endangered Species Management Plans (ESMP)**

Each installation is required to prepare an ESMP for listed and proposed species. Of the 100 installations reporting onsite TEP, 38 have current and approved ESMPs; 23 have partially complete ( $\geq 60\%$ ); 9 have partially complete ( $< 60\%$ ), and 5 installations reported they have not yet initiated an ESMP. In addition, 21 installations reported they did not require an ESMP and 4 installations did not report the status of their ESMP. Of the 25 installations reporting only contiguous TEP, 2 have current and approved ESMPs, 1 has a partially complete ( $\geq 60\%$ ), 2 have partially complete ( $< 60\%$ ) ESMPs, and 1 installation reported they have not yet initiated an ESMP (ESMP's are not required for contiguous TEP). In addition, 17 installations reported that they do not require an ESMP and 2 installations did not report the status of their ESMP. In summary, 40 installations have current and approved ESMPs (Appendix C).

## **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 99 installations reporting onsite T&E, 71 have a completed T&E PLS, 4 have a partially completed T&E PLS ( $\geq 85\%$ ), 7 have a partially completed T&E PLS ( $> 50\% - < 85\%$ ), and 2 have a partially completed T&E PLS ( $> 0 - 50\%$ ). Of the remaining 15 installations, 2 have not initiated the PLS, 9 installations reported that they do not require a T&E PLS, and 4 did not report their PLS status. Of the 25 installations reporting contiguous T&E, 13 have a completed T&E PLS, 3 have a partially completed PLS ( $\geq 85\%$ ), 1 have a partially completed T&E PLS ( $> 50\% - < 85\%$ ), and 3 have a partially completed T&E PLS ( $> 0 - 50\%$ ). Of the remaining 5 installations, 3 installations reported that they are not required to have a T&E PLS and 2 did not report the status of the T&E PLS.

Of the 6 installations reporting only Candidate or Proposed species, 4 reported having completed a T&E PLS. One installation reported having a partially complete T&E PLS ( $\geq 85\%$ ), while the remaining installation reported that they did not require a T&E PLS. In conclusion, of the 130 installations reporting any TES species, onsite or contiguous, 88 installations have a complete 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 ESA. 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 \$15,533.6K was spent for onsite T&E in FY 2001. By category, expenditures for onsite T&E include: \$82K for amphibians, \$9950.9K for birds, \$89.8K for fish, \$1359.6K for mammals, \$2404.4 for plants, \$874.1 for reptiles, \$651.8K for invertebrates, \$121K for snails. An additional \$629.8K was spent on Candidate and Proposed species in FY 2001. Table 9 provides a summary of Army reportable expenses from FY1997-FY2001.

An additional \$2,617K was also spent in non-reportable expenditures, for managing all other sensitive species not covered in the species-specific expenditures question. By MACOM, AMC spent \$54.5K on non-reportable species, ARNG spent \$931K, ATEC spent \$185K, FORSCOM spent \$617K, MDW \$23.5K, TRADOC spent \$743K, USARC spent \$57K, and USMA spent \$6K. These expenditures are not an inclusive list as other unreported projects may include money for species management.

**Table 9. Reportable Expenditures (\$K) over the last 5 years (FY 1997-FY2001).**

Year (FY)	1997	1998	1999	2000	2001
<b>Reportable Expenditures (\$K)</b>	10,222.2	10,389.9 <sup>a</sup>	12,085.0	17,568.6 <sup>a</sup>	15,533.6

<sup>a</sup> The officially reported numbers in the Department of Defense (DOD) Conservation Reports for FY1998 (10,510.6) and FY2000 (17,388.1) included mathematical errors and errors due to the inclusion of Candidate or Proposed species expenditures. These are the corrected expenditures for these years.

## Consistent Reporting

The Army is frequently asked for information on T&E species. However, often the requestor does not realize the intricacy of the data in that there are multiple answers to the question, “How many T&E species are on Army lands?” For future consistency, the number provided (unless other data are specifically requested) will be distinct T&E onsite<sup>6</sup>. Table 10 shows these numbers for FY 1997 through FY 2001.

**Table 10. Number of T&E species by fiscal year.**

	Year	# of Species	# of installations
<b>Onsite</b>	1997	175	91
	1998	153	94
	1999	153	95
	2000	170	94
	2001	172	99

<sup>6</sup> Proposed species are not included in this number, even though for management purposes the Army considers them the same as T&E species.

## 5 Definitions

**Biological Opinion** – The document that states the opinion of the FWS/ 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 T&E 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

**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

USARC- U.S. Army Reserve Command

ARNG- Army National Guard

ATEC- Army Test and Evaluation Command

FORSCOM- Forces Command

MEDCOM- Medical Command

MDW- Military District of Washington

MTMC- Military Traffic Management Command

TRADOC- Training and Doctrine Command

USARPAC- U.S. Army Pacific Command

USARSO- U.S. Army South Command

USMA- U.S. Military Academy

USACE- U.S. Army Corps of Engineers

(installations under BRAC)

**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). PLSs 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 or the installation activities may affect the species and be included in the action area for assessing potential effects.

**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.

**TIM** – Transformation of Installation Management. To make more efficient use of its resources and to be more responsive to rapidly changing institutional and operational missions, Headquarters Department of Army (HQDA) is undergoing realignment to become effective October 1, 2002. Under TIM, Continental United States (CONUS) installations, excluding the National Guard installations, are divided into 5 regions; Northeast, Northwest, Southeast, Southwest, and Pacific Regions.

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

MACOM	Installation	USFWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation?
AMC	Aberdeen Proving Ground	5	<i>Acipenser brevirostrum</i>	Shortnose sturgeon	Onsite	E	Fish	No
			<i>Etheostoma sellare</i>	Maryland darter	Contiguous	E	Fish	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
AMC	Adelphi Army Research Laboratory	5	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
AMC	Anniston Army Depot	4	<i>Xyris tennesseensis</i>	Tennessee yellow-eyed grass	Onsite	E	Plant	No
AMC	Blue Grass Army Depot	4	<i>Trifolium stoloniferum</i>	Running buffalo clover	Onsite	E	Plant	No
AMC	Deseret Chemical Depot	6	<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
AMC	Holston AAP	4	<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
			<i>Myotis grisescens</i>	Gray bat	Onsite	E	Mammal	No
AMC	Indiana AAP	3	<i>Myotis grisescens</i>	Gray bat	Onsite	E	Mammal	No
AMC	Iowa AAP	3	<i>Myotis sodalis</i>	Indiana bat	Onsite	E	Mammal	No
AMC	Longhorn AAP	2	<i>Alligator mississippiensis</i>	American alligator	Onsite	T(S/A)	Reptile	No
AMC	Louisiana AAP	4	<i>Alligator mississippiensis</i>	American alligator	Onsite	T(S/A)	Reptile	No
AMC	McAlester AAP	2	<i>Nicrophorus americanus</i>	American burying beetle	Onsite	E	Invertebrate	No
AMC	Newport Chemical Activity	3	<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
			<i>Myotis sodalis</i>	Indiana bat	Onsite	E	Mammal	No
AMC	Picatinny Arsenal	5	<i>Clemmys muhlenbergii</i>	Bog turtle	Contiguous	T	Reptile	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
			<i>Myotis sodalis</i>	Indiana bat	Onsite	E	Mammal	No
AMC	Pine Bluff Arsenal	4	<i>Alligator mississippiensis</i>	American alligator	Onsite	T(S/A)	Reptile	No
AMC	Pueblo Depot Activity	6	<i>Charadrius montanus</i>	Mountain plover	Onsite	PT	Bird	No

MACOM	Installation	USFWS Region	Scientific Name (Genus, species)	Common Name	Onsite/Contiguous	Federal Listing Status	Category	Critical Habitat on Installation?
AMC	Redstone Arsenal	4	<i>Alligator mississippiensis</i>	American alligator	Onsite	T(S/A)	Reptile	No
			<i>Apios priceana</i>	Price's potato-bean	Onsite	T	Plant	No
			<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	Contiguous	E	Mammal	No
			<i>Palaemonias alabamae</i>	Alabama cave shrimp	Onsite	E	Invertebrate	No
AMC	Riverbank AAP	1	<i>Desmocerus californicus dimorphus</i>	Valley elderberry longhorn beetle	Contiguous	T	Invertebrate	No
AMC	Rock Island Arsenal	3	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Lampsilis higginsii</i>	Higgin's Eye pearlymussel	Contiguous	E	Clam	No
AMC	Rocky Mountain Arsenal <sup>7</sup>	6	<i>Cynomys ludovicianus</i>	Black-tailed prairie dog	Onsite	C	Mammal	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Zapus hudsonius preblei</i>	Preble's meadow jumping mouse	Contiguous	T	Mammal	No
AMC	Sierra Army Depot	1	<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
AMC	Sunflower AAP	6	<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
AMC	Tooele Army Depot	6	<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
AMC	Twin Cities AAP	3	<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
AMC	Volunteer AAP	4	<i>Scutellaria montana</i>	Large-flowered skullcap	Onsite	E	Plant	No
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	BG Thomas B. Baker TS (formerly Lil Aaron Strauss)	5	<i>Ptilimnium nodosum</i>	Harperella	Onsite	E	Plant	No
ARNG	Camp Adair	1	<i>Lupinus sulphureus</i> var. <i>kincaidii</i>	Kincaid's Lupine	Onsite	T	Plant	No
			<i>Sidalcea nelsoniana</i>	Nelson's checker-mallow	Onsite	T	Plant	No
			<i>Strix occidentalis caurina</i>	Northern spotted owl	Contiguous	T	Bird	No
ARNG	Camp Ashland	6	<i>Sterna antillarum</i>	Least tern	Contiguous	E	Bird	No
			<i>Scaphirhynchus albus</i>	Pallid sturgeon	Contiguous	E	Fish	No

<sup>7</sup> Rocky Mountain Arsenal is managed by the USFWS under an overlay refuge concept established by the Rocky Mountain Arsenal National Wildlife Refuge Act of 1992.

MACOM	Installation	USFWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation?
ARNG	Camp Berkeley	2	<i>Vireo atricapillus</i>	Black-capped vireo	Onsite	E	Bird	No
ARNG	Camp Beauregard	4	<i>Picoides borealis</i>	Red-cockaded woodpecker	Contiguous	E	Bird	No
ARNG	Camp Blanding	4	<i>Aphelocoma coerulescens</i>	Florida scrub jay	Onsite	T	Bird	No
			<i>Drymarchon corais couperi</i>	Eastern indigo snake	Onsite	T	Reptile	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's 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
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>Sistrurus catenatus catenatus</i>	Eastern massasauga	Onsite	C	Reptile	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 Perry	3	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
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 (Genus, species)	Common Name	Onsite/Contiguous	Federal Listing Status	Category	Critical Habitat on Installation?
ARNG (cont)	Camp Rilea		<i>Speyeria zerene hippolyta</i>	Oregon silverspot butterfly	Onsite	T	Invertebrate	No
			<i>Strix occidentalis caurina</i>	Northern spotted owl	Contiguous	T	Bird	No
ARNG	Camp Ripley	3	<i>Canis lupus</i>	Gray wolf	Onsite	T	Mammal	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
ARNG	Camp Roberts TS	1	<i>Branchinecta lynchi</i>	Vernal pool fairy shrimp	Onsite	T	Invertebrate	No
			<i>Chlorogalum purpureum</i> var. <i>purpureum</i>	Purple amole	Onsite	T	Plant	No
			<i>Gymnogyps californianus</i>	California condor	Onsite	E	Bird	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Oncorhynchus mykiss</i>	Steelhead	Onsite	T	Fish	Yes
			<i>Vireo bellii pusillus</i>	Least Bell's vireo	Contiguous	E	Bird	No
ARNG	Camp Robinson	4	<i>Vulpes macrotis mutica</i>	San Joaquin kit fox	Onsite	E	Mammal	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
ARNG	Camp San Luis Obispo	1	<i>Cirsium fontinale</i> var. <i>obispoense</i>	Chorro Creek bog thistle	Onsite	E	Plant	No
			<i>Gymnogyps californianus</i>	California condor	Onsite	E	Bird	No
			<i>Oncorhynchus mykiss</i>	Steelhead	Onsite	T	Fish	Yes
			<i>Rana aurora draytonii</i>	California red-legged frog	Onsite	T	Amphibian	No
			<i>Vireo bellii pusillus</i>	Least Bell's vireo	Contiguous	E	Bird	No
ARNG	Camp Shelby	4	<i>Alligator mississippiensis</i>	American alligator	Contiguous	T(S/A)	Reptile	No
			<i>Fallicambarus gordonii</i>	Camp Shelby burrowing crayfish	Onsite	C	Invertebrate	No
			<i>Gopherus polyphemus</i>	Gopher tortoise	Onsite	T	Reptile	No
			<i>Isoetes louisianensis</i>	Louisiana quillwort	Onsite	E	Plant	No
			<i>Picoides borealis</i>	Red-cockaded woodpecker	Contiguous	E	Bird	No
			<i>Pituophis melanoleucus lodingi</i>	Black pine snake	Contiguous	C	Reptile	No
ARNG	Camp Smith TS	5	<i>Acipenser brevirostrum</i>	Shortnose sturgeon	Contiguous	E	Fish	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No

MACOM	Installation	USFWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation?
ARNG	Camp Williams	6	<i>Arctomecon humilis</i>	Dwarf bear-poppy	Onsite	E	Plant	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
ARNG	Cedar City Armory	6	<i>Cynomys parvidens</i>	Utah prairie dog	Contiguous	T	Mammal	No
ARNG	Clark County TA	1	<i>Gopherus agassizii</i>	Desert tortoise	Contiguous	T	Reptile	No
ARNG	DMAVA	5	<i>Sterna antillarum</i>	Least tern	Onsite	E	Bird	No
ARNG	Douglas WY Armory	6	<i>Zapus hudsonius preblei</i>	Preble's meadow jumping mouse	Contiguous	T	Mammal	No
ARNG	Florence Military Reservation	2	<i>Glaucidium brasilianum cactorum</i>	Cactus ferruginous pygmy-owl	Contiguous	E	Bird	Yes
			<i>Gopherus agassizii</i>	Desert tortoise	Onsite	T (S/A)	Reptile	No
ARNG	Fort Chaffee	4	<i>Nicrophorus americanus</i>	American burying beetle	Onsite	E	Invertebrate	No
ARNG	Fort Harrison	6	<i>Cynomys ludovicianus</i>	Black-tailed prairie dog	Onsite	C	Mammal	No
ARNG	Fort McClellan	4	<i>Marshallia mohrii</i>	Mohr's Barbara button	Onsite	T	Plant	No
			<i>Myotis grisescens</i>	Gray bat	Onsite	E	Mammal	No
			<i>Xyris tennesseensis</i>	Tennessee yellow-eyed grass	Onsite	E	Plant	No
ARNG	Fort Pickett	5	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Percina rex</i>	Roanoke logperch	Onsite	E	Fish	No
			<i>Rhus michauxii</i>	Michaux's sumac	Onsite	E	Plant	No
ARNG	Fort Ruger	1	<i>Cyperus trachysanthos</i>	Pu`uka`a	Onsite	E	Plant	No
			<i>Fulica americana alai</i>	Hawaiian coot	Onsite	E	Bird	No
			<i>Gallinula chloropus sandvicensis</i>	Hawaiian common moorhen	Onsite	E	Bird	No
			<i>Schiedea adamantis</i>	Diamond Head schiedea (Ma`oli`oli)	Onsite	E	Plant	No
ARNG	Garrison TS	6	<i>Charadrius melodus</i>	Piping plover	Onsite	T	Bird	No
ARNG	Greenlief TS (formerly Hastings TS)	6	<i>Grus americana</i>	Whooping crane	Contiguous	E	Bird	No
ARNG	Ike Skeleton TS	3	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
ARNG	Kanaio WETS	1	<i>Lasiurus cinereus semotus</i>	Hawaiian hoary bat	Contiguous	E	Mammal	No
			<i>Manduca blackburni</i>	Blackburn's sphinx moth	Onsite	E	Invertebrate	No
			<i>Sesbania tomentosa</i>	Ohai	Onsite	E	Plant	No

MACOM	Installation	USFWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation?
ARNG	Kansas Reserve TC	6	<i>Cynomys ludovicianus</i>	Black-tailed prairie dog	Onsite	C	Mammal	No
ARNG	Keaukaha Military Reservation	1	<i>Buteo solitarius</i>	Hawaiian hawk	Onsite	E	Bird	No
			<i>Lasiurus cinereus semotus</i>	Hawaiian hoary bat	Onsite	E	Mammal	No
ARNG	Leesburg TS	4	<i>Echinacea laevigata</i>	Smooth coneflower	Onsite	E	Plant	No
			<i>Lysimachia asperulaefolia</i>	Rough-leaved loosestrife	Contiguous	E	Plant	No
			<i>Picoides borealis</i>	Red-cockaded woodpecker	Onsite	E	Bird	No
ARNG	Macon TS	3	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Myotis sodalis</i>	Indiana bat	Contiguous	E	Mammal	No
ARNG	Marana SBAH Facilities	2	<i>Antilocapra americana sonoriensis</i>	Sonoran pronghorn	Contiguous	E	Mammal	No
			<i>Glaucidium brasilianum cactorum</i>	Cactus ferruginous pygmy-owl	Contiguous	E	Bird	No
			<i>Leptonycteris curasoae yerbabuena</i>	Lesser long-nosed bat	Contiguous	E	Mammal	No
ARNG	New Hampshire NGTS	5	<i>Isotria medeoloides</i>	Small whorled pogonia	Contiguous	T	Plant	No
ARNG	NH State Military Reservation	5	<i>Lycaeides melissa samuelis</i>	Karner blue butterfly	Contiguous	E	Invertebrate	No
ARNG	Orchard Range TS	1	<i>Lepidium papilliferum</i>	Slick spot peppergrass	Onsite	C	Plant	No
ARNG	Salina Smokey Hill TA	6	<i>Cynomys ludovicianus</i>	Black-tailed prairie dog	Contiguous	C	Mammal	No
ARNG	Santa Cruz Armory	1	<i>Holocarpha macradenia</i>	Santa Cruz tarplant	Onsite	T	Plant	No
ARNG	Sea Girt TS	5	<i>Sterna antillarum</i>	Least tern	Onsite	E	Bird	No
			<i>Charadrius melodus</i>	Piping plover	Onsite	T	Bird	No
ARNG	Sheridan LTA	6	<i>Cynomys ludovicianus</i>	Black-tailed prairie dog	Onsite	C	Mammal	No
ARNG	St. George Armory	6	<i>Arctomecon humilis</i>	Dwarf bear-poppy	Onsite	E	Plant	No
ARNG	Stead TS	1	<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
ARNG	Truman Reservoir TS	3	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
ARNG	Tulahoma 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 Firing Range	1	<i>Himantopus mexicanus knudseni</i>	Hawaiian stilt	Onsite	E	Bird	No
			<i>Fulica americana alai</i>	Hawaiian coot	Onsite	E	Bird	No

MACOM	Installation	USFWS Region	Scientific Name (Genus, species)	Common Name	Onsite/Contiguous	Federal Listing Status	Category	Critical Habitat on Installation?
ARNG	STARC-UT	6	<i>Arctomecon humilis</i>	Dwarf bear-poppy	Onsite	E	Plant	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
ARNG	Wendhall H. Ford Regional TS	4	<i>Myotis grisescens</i>	Gray bat	Onsite	E	Mammal	No
ATEC	Dugway Proving Ground	6	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
ATEC	Fort Wingate Army Depot <sup>8</sup>	2	<i>Strix occidentalis lucida</i>	Mexican spotted owl	Contiguous	T	Bird	Yes
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	PT	Bird	No
			<i>Coccyzus americanus</i>	Yellow-billed cuckoo	Onsite	C	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

<sup>8</sup> Fort Wingate is under BRAC. A portion of Fort Wingate is retained under management by White Sands Missile Range, and is reported under ATEC.

MACOM	Installation	USFWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation?
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 florentina 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>	Copperbelly water snake	Contiguous	T	Reptile	No
			<i>Obovaria retusa</i>	Ring pink (mussel)	Contiguous	E	Clam	No
			<i>Plethobasus cooperianus</i>	Orange-foot pimpleback (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
FORSCOM	Fort Carson (including Pinyon Canyon)	6	<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
			<i>Cynomys ludovicianus</i>	Black-tailed prairie dog	Onsite	C	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>Grus americana</i>	Whooping crane	Contiguous	E	Bird	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Texella cokendolpheri</i>	Robber Baron Cave harvestman	Onsite	E	Invertebrate	No
			<i>Texella reddelli</i>	Bee Creek Cave harvestman	Onsite	E	Invertebrate	No
			<i>Texella reyesi</i>	Bone Cave harvestman	Onsite	E	Invertebrate	No
			<i>Vireo atricapillus</i>	Black-capped vireo	Onsite	E	Bird	No
FORSCOM	Fort Irwin	1	<i>Astragalus jaegerianus</i>	Lane Mountain milk-veitch	Onsite	E	Plant	No
			<i>Gopherus agassizii</i>	Desert tortoise	Onsite	T	Reptile	Yes

MACOM	Installation	USFWS Region	Scientific Name (Genus, species)	Common Name	Onsite/Contiguous	Federal Listing Status	Category	Critical Habitat on Installation?
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>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
FORSCOM	Yakima Training Center	1	<i>Centrocercus urophasianus phaios</i>	Western sage grouse	Onsite	C	Bird	No
			<i>Erigeron basalticus</i>	Basalt daisy	Onsite	C	Plant	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Oncorhynchus mykiss</i>	Steelhead	Onsite	E	Fish	Yes
			<i>Oncorhynchus mykiss</i>	Steelhead	Onsite	T	Fish	Yes
			<i>Oncorhynchus tshawytscha</i>	Chinook Salmon	Onsite	E	Fish	Yes
			<i>Spiranthes diluvialis</i>	Ute ladies'-tresses	Contiguous	T	Plant	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
			<i>Sarracenia oreophila</i>	Green pitcher-plant	Onsite	E	Plant	No

MACOM	Installation	USFWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation?
MDW (cont)	Fort A.P. Hill		<i>Sarracenia rubra alabamensis</i>	Alabama canebrake pitcher-plant	Onsite	E	Plant	No
			<i>Sarracenia rubra ssp. jonesii</i>	Mountain sweet pitcher-plant	Onsite	E	Plant	No
MDW	Fort Belvoir	5	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
MEDCOM	Fort Sam Houston (including 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>	Ground beetle	Onsite	E	Invertebrate	No
			<i>Rhadine infernalis</i>	Ground beetle	Onsite	E	Invertebrate	No
			<i>Vireo atricapillus</i>	Black-capped vireo	Onsite	E	Bird	No
MTMC	Military Ocean Terminal-Sunny Point	4	<i>Acipenser brevirostrum</i>	Shortnose sturgeon	Contiguous	E	Fish	No
			<i>Alligator mississippiensis</i>	American alligator	Onsite	T(S/A)	Reptile	No
			<i>Caretta caretta</i>	Loggerhead sea turtle	Contiguous	T	Reptile	No
			<i>Charadrius melodus</i>	Piping plover	Contiguous	T	Bird	No
			<i>Chelonia mydas</i>	Green sea turtle	Contiguous	T	Reptile	No
			<i>Dermochelys coriacea</i>	Leatherback sea turtle	Contiguous	E	Reptile	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
			<i>Lepidochelys kempii</i>	Kemp's ridley sea turtle	Contiguous	E	Reptile	No
			<i>Lysimachia asperulaefolia</i>	Rough-leaved loosestrife	Onsite	E	Plant	No
			<i>Picoides borealis</i>	Red-cockaded woodpecker	Onsite	E	Bird	No
			<i>Thalictrum cooleyi</i>	Cooley's meadowrue	Contiguous	E	Plant	No
<i>Trichechus manatus</i>	West Indian manatee	Contiguous	E	Mammal	No			
TRADOC	Fort Benning	4	<i>Alligator mississippiensis</i>	American alligator	Onsite	T(S/A)	Reptile	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>Trillium reliquum</i>	Relict trillium	Onsite	E	Plant	No

MACOM	Installation	USFWS Region	Scientific Name (Genus, species)	Common Name	Onsite/Contiguous	Federal Listing Status	Category	Critical Habitat on Installation?
TRADOC	Fort Bliss	2	<i>Charadrius montanus</i>	Mountain plover	Onsite	PT	Bird	No
			<i>Coryphantha sneedii</i> var. <i>sneedii</i>	Sneed pincushion cactus	Onsite	E	Plant	No
			<i>Cynomys ludovicianus</i>	Black-tailed prairie dog	Onsite	C	Mammal	No
			<i>Falco femoralis septentrionalis</i>	Northern aplomado falcon	Onsite	E	Bird	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
TRADOC	Fort Eustis	5	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
TRADOC	Fort Gordon	4	<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
TRADOC	Fort Huachuca	2	<i>Ambystoma tigrinum stebbinsi</i>	Sonoran tiger salamander	Onsite	E	Amphibian	No
			<i>Empidonax traillii extimus</i>	Southwestern willow flycatcher	Contiguous	E	Bird	No
			<i>Erigeron lemmonii</i>	Lemmon fleabane	Onsite	C	Plant	No
			<i>Leptonycteris curasoae yerbabuena</i>	Lesser long-nosed bat	Onsite	E	Mammal	No
			<i>Lilaeopsis schaffneriana</i> var. <i>recurva</i>	Huachuca water-umbel	Onsite	E	Plant	Yes
			<i>Meda fulgida</i>	Spikedace	Contiguous	T	Fish	No
			<i>Pyrgulopsis thompsoni</i>	Huachuca springsnail	Onsite	C	Snail	No
			<i>Rana chiricahuensis</i>	Chiricahua leopard frog	Onsite	PT	Amphibian	No
			<i>Rhinichthys cobitis</i>	Loach minnow	Contiguous	T	Fish	No
<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

MACOM	Installation	USFWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation?
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>Cynomys ludovicianus</i>	Black-tailed prairie dog	Onsite	C	Mammal	No
			<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	Contiguous	T	Bird	Yes
			<i>Chorizanthe pungens</i> var. <i>pungens</i>	Monterey spineflower	Contiguous	T	Plant	No
			<i>Euphilotes enoptes smithi</i>	Smith's blue butterfly	Contiguous	E	Invertebrate	No
			<i>Gilia tenuiflora</i> ssp. <i>arenaria</i>	Monterey gilia	Contiguous	E	Plant	No
			<i>Lasthenia conjugens</i>	Contra Costa goldfields	Contiguous	E	Plant	No
			<i>Rana aurora draytonii</i>	California red-legged frog	Contiguous	T	Amphibian	No
USACE	Jefferson Proving Ground- BRAC	3	<i>Myotis sodalis</i>	Indiana bat	Onsite	E	Mammal	No
USACE	Savanna Army Depot- BRAC	3	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Lampsilis higginsii</i>	Higgins Eye pearl mussel	Onsite	E	Clam	No
USARC	63RD RSC HQ	1	<i>Ambystoma californiense</i>	California tiger salamander	Onsite	C	Amphibian	No
			<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

MACOM	Installation	USFWS Region	Scientific Name (Genus, species)	Common Name	Onsite/Contiguous	Federal Listing Status	Category	Critical Habitat on Installation?
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	Yes
			<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
			<i>Vulpes macrotis mutica</i>	San Joaquin kit fox	Onsite	E	Mammal	No
USARC	Fort McCoy	3	<i>Canis lupus</i>	Gray wolf	Onsite	E	Mammal	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
			<i>Lycaeides melissa samuelis</i>	Karner blue butterfly	Onsite	E	Invertebrate	No
USARC	Parks RFTA	1	<i>Ambystoma californiense</i>	California tiger salamander	Onsite	C	Amphibian	No
			<i>Rana aurora draytonii</i>	California red-legged frog	Onsite	T	Amphibian	No
USARPAC	Dillingham Military Reservation	1	<i>Lepidium arbuscula</i>	`Anaanau	Onsite	E	Plant	No
			<i>Nototrichium humile</i>	Kulu`i	Contiguous	E	Plant	No
			<i>Schiedea kealiae</i>	Ma`oli`oli	Onsite	E	Plant	No
USARPAC	Kahuku TA	1	<i>Eugenia koolauensis</i>	Nioi	Onsite	E	Plant	No
			<i>Pteralyxia macrocarpa</i>	Kaulu	Onsite	C	Plant	No
			<i>Tetraplasandra gymnocarpa</i>	`Ohe`ohe	Onsite	E	Plant	No
USARPAC	Kawailoa TA	1	<i>Achatinella apexfulva</i>	Pupu kuahiwi	Onsite	E	Snail	No
			<i>Achatinella byronii</i>	Pupu kuahiwi	Onsite	E	Snail	No
			<i>Achatinella curta</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 lila</i>	Pupu kuahiwi	Onsite	E	Snail	No

MACOM	Installation	USFWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation?
USARPAC	Kawailoa TA (cont)		<i>Achatinella livida</i>	Pupu kuahiwi	Onsite	E	Snail	No
			<i>Achatinella pulcherrima</i>	Pupu kuahiwi	Onsite	E	Snail	No
			<i>Achatinella sowerbyana</i>	Pupu kuahiwi	Onsite	E	Snail	No
			<i>Chamaesyce rockii</i>	`Akoko	Onsite	E	Plant	No
			<i>Chasiempis sandwichensis ibidus</i>	Oahu elepaio	Contiguous	E	Bird	Yes
			<i>Cyanea acuminata</i>	Haha	Onsite	E	Plant	No
			<i>Cyanea crispa</i>	None	Onsite	E	Plant	No
			<i>Cyanea humboldtiana</i>	Haha	Onsite	E	Plant	No
			<i>Cyanea koolauensis</i>	Haha	Onsite	E	Plant	No
			<i>Cyanea lanceolata</i>	Haha	Onsite	C	Plant	No
			<i>Cyanea st-johnii</i>	Haha	Onsite	E	Plant	No
			<i>Cyrtandra viridiflora</i>	Ha`iwale	Onsite	E	Plant	No
			<i>Gardenia mannii</i>	Nanu	Onsite	E	Plant	No
			<i>Hedyotis fluviatilis</i>	Kampua`a	Onsite	C	Plant	No
			<i>Hesperomannia arborescens</i>	None	Onsite	E	Plant	No
			<i>Lasiurus cinereus semotus</i>	Hawaiian hoary bat	Onsite	E	Mammal	No
			<i>Melicope hiiakae</i>	Alani	Onsite	C	Plant	No
			<i>Melicope lydgatei</i>	Alani	Onsite	E	Plant	No
			<i>Myrsine fosbergii</i>	Kolea	Onsite	C	Plant	No
			<i>Myrsine juddii</i>	Kolea	Onsite	E	Plant	No
			<i>Phlegmariurus nutans</i>	Wawae`iole	Onsite	E	Plant	No
			<i>Phyllostegia hirsuta</i>	None	Onsite	E	Plant	No
			<i>Platydesma cornuta cornuta</i>	None	Onsite	C	Plant	No
			<i>Psychotria hexandra ssp. oahuensis</i>	Kopiko	Onsite	C	Plant	No
			<i>Pteris lidgatei</i>	None	Onsite	E	Plant	No

MACOM	Installation	USFWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation?
USARPAC	Kawailoa TA (cont.)	1	<i>Sanicula purpurea</i>	None	Onsite	E	Plant	No
			<i>Tetraplasandra gymnocarpa</i>	`Ohe`ohe	Onsite	E	Plant	No
			<i>Thelypteris boydiae</i>	None	Onsite	C	Plant	No
			<i>Viola oahuensis</i>	None	Onsite	E	Plant	No
			<i>Zanthoxylum oahuense</i>	A`e	Onsite	C	Plant	No
USARPAC	Makua Military Reservation	1	<i>Achatinella mustelina</i>	Pupu kuahiwi	Onsite	E	Snail	No
			<i>Alectryon macrococcus</i>	Mahoe	Onsite	E	Plant	No
			<i>Alsinidendron obovatum</i>	None	Onsite	E	Plant	No
			<i>Bonamia menziesii</i>	None	Onsite	E	Plant	No
			<i>Cenchrus agrimonioides</i>	Kamanomano	Onsite	E	Plant	No
			<i>Chamaesyce celastroides</i> var. <i>kaenana</i>	`Akoko	Onsite	E	Plant	No
			<i>Chasiempis sandwichensis ibidus</i>	Oahu elepaio	Onsite	E	Bird	Yes
			<i>Ctenitis squamigera</i>	Pauoa	Onsite	E	Plant	No
			<i>Cyanea superba</i>	Haha	Onsite	E	Plant	No
			<i>Cyrtandra dentata</i>	Ha`iwale	Onsite	E	Plant	No
			<i>Delissea subcordata</i>	`Oha	Onsite	E	Plant	No
			<i>Diellia falcata</i>	None	Onsite	E	Plant	No
			<i>Dubautia herbstobatae</i>	Na`ena`e	Onsite	E	Plant	No
			<i>Euphorbia haeleleana</i>	`Akoko	Onsite	E	Plant	No
			<i>Flueggea neowawraea</i>	Mehamehame	Onsite	E	Plant	No
			<i>Hedyotis degeneri</i>	None	Onsite	E	Plant	No
			<i>Hedyotis parvula</i>	None	Onsite	E	Plant	No
			<i>Hibiscus brackenridei</i>	Ma`o hau hele	Onsite	E	Plant	No
			<i>Korthalsella degeneri</i>	Hulumoa	Onsite	C	Plant	No
			<i>Lasiurus cinereus semotus</i>	Hawaiian hoary bat	Onsite	E	Mammal	No

MACOM	Installation	USFWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation?
USARPAC (cont)	Makua Military Reservation		<i>Lepidium arbuscula</i>	`Anaunau	Onsite	E	Plant	No
			<i>Lipochaeta tenuifolia</i>	Nehe	Onsite	E	Plant	No
			<i>Lobelia niihauensis</i>	None	Onsite	E	Plant	No
			<i>Melicope makahae</i>	Alani	Onsite	C	Plant	No
			<i>Neraudia angulata</i> var. <i>angulata</i>	Ma`aloa	Onsite	E	Plant	No
			<i>Neraudia angulata</i> var. <i>dentata</i>	Ma`aloa	Onsite	E	Plant	No
			<i>Nototrichium humile</i>	Kulu`i	Onsite	E	Plant	No
			<i>Plantago princeps</i>	Kuahiwi laukahi	Onsite	E	Plant	No
			<i>Platydesma cornuta descurrens</i>	None	Onsite	C	Plant	No
			<i>Pleomele forbesii</i>	Hala pepe	Onsite	C	Plant	No
			<i>Pritchardia kaalae</i>	Loulu	Onsite	E	Plant	No
			<i>Pteralyxia macrocarpa</i>	Kaulu	Onsite	C	Plant	No
			<i>Sanicula marivera</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	Contiguous	E	Bird	No
			<i>Festuca hawaiiensis</i>	None	Onsite	C	Plant	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 (honeycreeper)	Onsite	E	Bird	No

MACOM	Installation	USFWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation?
USARPAC	Pohakuloa TA (cont.)	1	<i>Lasiurus cinereus semotus</i>	Hawaiian hoary bat	Onsite	E	Mammal	No
			<i>Loxioides bailleui</i>	Palila	Contiguous	E	Bird	Yes
			<i>Neraudia ovata</i>	Ma`aloa	Onsite	E	Plant	No
			<i>Nesochen sandvicensis</i>	Hawaiian goose	Onsite	E	Bird	No
			<i>Portulaca sclerocarpa</i>	Po`e	Onsite	E	Plant	No
			<i>Pterodroma phaeopygia sandwichensis</i>	Hawaiian dark-rumped petrel	Contiguous	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>	None	Onsite	E	Plant	No
			<i>Stenogyne angustifolia</i> var. <i>angustifolia</i>	None	Onsite	E	Plant	No
			<i>Tetramolopium arenarium</i>	None	Onsite	E	Plant	No
			<i>Zanthoxylum hawaiiense</i>	A`e	Onsite	E	Plant	No
USARPAC	Schofield Barracks Military Reservation	1	<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 mustelina</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>Chasiempis sandwichensis ibidus</i>	Oahu elepaio	Onsite	E	Bird	No
			<i>Cyanea acuminata</i>	Haha	Onsite	E	Plant	No
			<i>Cyanea koolauensis</i>	Haha	Onsite	E	Plant	No
			<i>Cyanea lanceolata</i>	Haha	Onsite	C	Plant	No
			<i>Cyrtandra subumbellata</i>	Ha`iwale	Onsite	E	Plant	No

MACOM	Installation	USFWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation?
USARPAC (cont)	Schofield Barracks Military Reservation		<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 longifolium</i>	Aupaka	Onsite	T	Plant	No
			<i>Labordia cyrtandrae</i>	Kamakahala	Onsite	E	Plant	No
			<i>Lepidium arbuscula</i>	`Anaunau	Onsite	E	Plant	No
			<i>Lobelia gaudichaudii</i> ssp. <i>koolauensis</i>	None	Onsite	E	Plant	No
			<i>Lobelia oahuensis</i>	None	Onsite	E	Plant	No
			<i>Nothoestrum latifolium</i>	`Aiea	Onsite	C	Plant	No
			<i>Phlegmariurus nutans</i>	Wawae`iole	Onsite	E	Plant	No
			<i>Phyllostegia hirsuta</i>	None	Onsite	E	Plant	No
			<i>Phyllostegia mollis</i>	None	Onsite	E	Plant	No
			<i>Plantago princeps</i>	Kuahiwi laukahi	Onsite	E	Plant	No
			<i>Platydesma cornuta descurrens</i>	None	Onsite	C	Plant	No
			<i>Pleomele forbesii</i>	Hala pepe	Onsite	C	Plant	No
			<i>Pteralyxia macrocarpa</i>	Kaulu	Onsite	C	Plant	No
			<i>Pteris lidgatei</i>	None	Onsite	E	Plant	No
			<i>Sanicula purpurea</i>	None	Onsite	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. <i>chamissoniana</i>	Pamakani	Onsite	E	Plant	No		
	<i>Zanthoxylum oahuense</i>	A`e	Onsite	C	Plant	No		
USARPAC	Tripler Army Med Center	1	<i>Megalagrion xanthomelas</i>	Orangeblack Hawaiian damselfly	Onsite	C	Invertebrate	No

MACOM	Installation	USFWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation?
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>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Myotis sodalis</i>	Indiana bat	Onsite	E	Mammal	No
			<i>Acipenser brevirostrum</i>	Shortnose sturgeon	Contiguous	E	Fish	No

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

Scientific Name (Genus species)	Common Name	Federal Status	Category	MACOM	USFWS Region	Installation	Onsite/ Contiguous	Critical Habitat on Installation?
<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 Military Reservation	Onsite	No
<i>Achatinella curta</i>	Pupu kuahiwi	E	Snail	USARPAC	1	Kawailoa TA	Onsite	No
<i>Achatinella decipiens</i>	Pupu kuahiwi	E	Snail	USARPAC	1	Kawailoa TA	Onsite	No
				USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
<i>Achatinella leucorraphe</i>	Pupu kuahiwi	E	Snail	USARPAC	1	Kawailoa TA	Onsite	No
				USARPAC	1	Schofield Barracks Military Reservation	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 mustelina</i>	Pupu kuahiwi	E	Snail	USARPAC	1	Makua Military Reservation	Onsite	No
				USARPAC	1	Schofield Barracks Military Reservation	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	Kawailoa TA	Onsite	No
				USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
<i>Acipenser brevirostrum</i>	Shortnose sturgeon	E	Fish	AMC	5	Aberdeen Proving Ground	Onsite	No
				ARNG	5	Camp Smith TS	Contiguous	No
				FORSCOM	4	Fort Stewart	Onsite	No
				MTMC	4	Military Ocean Terminal-Sunny Point	Contiguous	No
				USMA	5	West Point Military Reservation	Contiguous	No
<i>Alectryon macrococcus</i>	Mahoe	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
				USARPAC	1	Schofield Barracks Military Reservation	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	Pine Bluff Arsenal	Onsite	No

Scientific Name (Genus species)	Common Name	Federal Status	Category	MACOM	USFWS Region	Installation	Onsite/ Contiguous	Critical Habitat on Installation?
				AMC	4	Redstone Arsenal	Onsite	No
				ARNG	4	Camp Shelby	Contiguous	No
				MTMC	4	Military Ocean Terminal-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 Military Reservation	Onsite	No
<i>Alsinidendron trinerve</i>	None	E	Plant	USARPAC	1	Schofield Barracks Military Reservation	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	63 <sup>RD</sup> RSC HQ	Onsite	No
				USARC	1	Fort Hunter Liggett	Onsite	No
				USARC	1	Parks RFTA	Onsite	No
<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>Antilocapra americana sonoriensis</i>	Sonoran pronghorn	E	Mammal	ARNG	2	Marana SBAH Facilities	Contiguous	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	STARC-UT	Onsite	No
				ARNG	6	St. George Armory	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 Military Reservation	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

Scientific Name (Genus species)	Common Name	Federal Status	Category	MACOM	USFWS Region	Installation	Onsite/ Contiguous	Critical Habitat on Installation?
<i>Bufo microscaphus californicus</i>	Southwestern arroyo toad	E	Amphibian	USARC	1	Fort Hunter Liggett	Onsite	Yes
<i>Buteo solitarius</i>	Hawaiian hawk	E	Bird	ARNG	1	Keaukaha Military Reservation	Onsite	No
				USARPAC	1	Pohakuloa TA	Contiguous	No
<i>Canis lupus</i>	Gray wolf	E	Mammal	USARC	3	Fort McCoy	Onsite	No
		T	Mammal	ARNG	3	Camp Ripley	Onsite	No
<i>Canis lupus baileyi</i>	Mexican gray wolf	E	Mammal	A TEC	2	White Sands Missile Range	Contiguous	No
<i>Caretta caretta</i>	Loggerhead sea turtle	T	Reptile	MTMC	4	Military Ocean Terminal-Sunny Point	Contiguous	No
<i>Cenchrus agrimonoides</i>	Kamanomano	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
<i>Centrocercus urophasianus phaios</i>	Western sage grouse	C	Bird	FORSCOM	1	Yakima Training Center	Onsite	No
<i>Chamaesyce celastroides</i> var. <i>kaenana</i>	`Akoko	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
<i>Chamaesyce deltoidea</i> ssp. <i>deltoidea</i>	Deltoid spurge	E	Plant	USARC	4	81ST RSC HQ	Onsite	No
<i>Chamaesyce rockii</i>	`Akoko	E	Plant	USARPAC	1	Kawailoa TA	Onsite	No
						Schofield Barracks Military Reservation	Onsite	No
<i>Charadrius alexandrinus nivosus</i>	Western snowy plover	T	Bird	ARNG	1	Camp Rilea	Contiguous	No
				TRADOC	1	Presidio of Monterey Annex	Contiguous	Yes
<i>Charadrius melodus</i>	Piping plover	T	Bird	ARNG	6	Garrison TS	Onsite	No
				ARNG	5	Sea Girt TS	Onsite	No
				A TEC	2	White Sands Missile Range	Contiguous	No
				FORSCOM	6	Fort Riley	Onsite	No
				MTMC	4	Military Ocean Terminal-Sunny Point	Contiguous	No
<i>Charadrius montanus</i>	Mountain plover	PT	Bird	AMC	6	Pueblo Depot Activity	Onsite	No
				A TEC	2	White Sands Missile Range	Onsite	No
				TRADOC	2	Fort Bliss	Onsite	No

Scientific Name (Genus species)	Common Name	Federal Status	Category	MACOM	USFWS Region	Installation	Onsite/ Contiguous	Critical Habitat on Installation?
<i>Chasiempis sandwichensis ibidus</i>	Oahu elepaio	E	Bird	USARPAC	1	Kawailoa TA	Contiguous	Yes
				USARPAC	1	Makua Military Reservation	Onsite	Yes
				USARPAC	1	Schofield Barracks Military Reservation	Onsite	Yes
<i>Chelonia mydas</i>	Green sea turtle	T	Reptile	MTMC	4	Military Ocean Terminal-Sunny Point	Contiguous	No
<i>Chlorogalum purpureum</i> var. <i>purpureum</i>	Purple amole	T	Plant	ARNG	1	Camp Roberts TS	Onsite	No
				USARC	1	Fort Hunter Liggett	Onsite	No
<i>Chorizanthe pungens</i> var. <i>pungens</i>	Monterey spineflower	T	Plant	TRADOC	1	Presidio of Monterey Annex	Contiguous	No
				USARC	1	63RD RSC HQ	Onsite	No
<i>Cicurina madla</i>	Madla's cave spider	E	Invertebrate	MEDCOM	2	Fort Sam Houston	Onsite	No
<i>Cirsium fontinale obispoense</i>	Chorro creek bog thistle	E	Plant	ARNG	1	Camp San Luis Obispo	Onsite	No
<i>Clemmys muhlenbergii</i>	Bog turtle	T	Reptile	AMC	5	Picatinny Arsenal	Contiguous	No
<i>Coccyzus americanus</i>	Yellow-billed cuckoo	C	Bird	A TEC	2	White Sands Missile Range	Onsite	No
<i>Coryphantha sneedii</i> var. <i>sneedii</i>	Sneed pincushion cactus	E	Plant	TRADOC	2	Fort Bliss	Onsite	No
<i>Ctenitis squamigera</i>	Pauoa	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
<i>Cyperus trachysanthos</i>	Pu'uka`a	E	Plant	ARNG	1	Fort Ruger	Onsite	No
<i>Cyanea acuminata</i>	Haha	E	Plant	USARPAC	1	Kawailoa TA	Onsite	No
				USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
<i>Cyanea crispa</i>	None	E	Plant	USARPAC	1	Kawailoa TA	Onsite	No
<i>Cyanea humboldtiana</i>	Haha	E	Plant	USARPAC	1	Kawailoa TA	Onsite	No
<i>Cyanea koolauensis</i>	Haha	E	Plant	USARPAC	1	Kawailoa TA	Onsite	No
				USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
<i>Cyanea lanceolata</i>	Haha	C	Plant	USARPAC	1	Kawailoa TA	Onsite	No
					1	Schofield Barracks Military Reservation	Onsite	No
<i>Cyanea st-johnii</i>	Haha	E	Plant	USARPAC	1	Kawailoa TA	Onsite	No
<i>Cyanea superba</i>	Haha	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No

Scientific Name (Genus species)	Common Name	Federal Status	Category	MACOM	USFWS Region	Installation	Onsite/ Contiguous	Critical Habitat on Installation?
<i>Cynomys ludovicianus</i>	Black-tailed prairie dog	C	Mammal	TRADOC	2	Fort Bliss	Onsite	No
				TRADOC	2	Fort Sill	Onsite	No
				AMC	6	Rocky Mountain Arsenal	Onsite	No
				AMC	6	Pueblo Depot Activity	Onsite	No
				ARNG	6	Fort Harrison	Onsite	No
				ARNG	6	Kansas Reserve TC	Onsite	No
				ARNG	6	Salina Smokey Hill TA	Contiguous	No
				ARNG	6	Sheridan LTA	Onsite	No
				ATEC	2	White Sands Missile Range	Contiguous	No
FORSCOM	6	Fort Carson	Onsite	No				
<i>Cynomys parvidens</i>	Utah prairie dog	T	Mammal	ARNG	6	Cedar City Armory	Contiguous	No
<i>Cyrtandra dentata</i>	Ha'iwale	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
<i>Cyrtandra subumbellata</i>	Ha'iwale	E	Plant	USARPAC	1	Schofield Barracks Military Reservation	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 Military Reservation	Onsite	No
<i>Dendroica chrysoparia</i>	Golden-cheeked warbler	E	Bird	FORSCOM	2	Fort Hood	Onsite	No
				MEDCOM	2	Fort Sam Houston	Onsite	Yes
<i>Dendroica kirtlandii</i>	Kirtland's warbler	E	Bird	ARNG	3	Camp Grayling	Onsite	No
<i>Dermochelys coriacea</i>	Leatherback sea turtle	E	Reptile	MTMC	4	Military Ocean Terminal-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 Military Reservation	Onsite	No
				USARPAC	1	Schofield Barracks Military Reservation	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 Military Reservation	Onsite	No

Scientific Name (Genus species)	Common Name	Federal Status	Category	MACOM	USFWS Region	Installation	Onsite/ Contiguous	Critical Habitat on Installation?
<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 Missile Range	Contiguous	No
				TRADOC	2	Fort Huachuca	Contiguous	No
<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 sellare</i>	Maryland darter	E	Fish	AMC	5	Aberdeen Proving Ground	Contiguous	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	Contiguous	No
<i>Euphorbia haelealeana</i>	`Akoko	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
<i>Falco femoralis septentrionalis</i>	Northern aplomado falcon	E	Bird	ATEC	2	White Sands Missile Range	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>Festuca hawaiiensis</i>	None	C	Plant	USARPAC	1	Pohakuloa TA	Onsite	No
<i>Flueggea neowawraea</i>	Mehamehame	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
				USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
<i>Fulica americana alai</i>	Hawaiian coot	E	Bird	ARNG	1	Fort Ruger	Onsite	No
				ARNG	1	Ukumehame Firing Range	Onsite	No
<i>Gallinula chloropus sandvicensis</i>	Hawaiian common moorhen	E	Bird	ARNG	1	Fort Ruger	Onsite	No
<i>Gardenia mannii</i>	Nanu	E	Plant	USARPAC	1	Kawailoa TA	Onsite	No
				USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
<i>Gilia tenuiflora ssp. arenaria</i>	Monterey gilia	E	Plant	TRADOC	1	Presidio of Monterey Annex	Contiguous	No
<i>Glaucidium brasilianum cactorum</i>	Cactus ferruginous pygmy-owl	E	Bird	ARNG	2	Florence Military Reservation	Contiguous	Yes
				ARNG	2	Marana SBAH Facilities	Contiguous	No

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<i>Gopherus agassizii</i>	Desert tortoise	T	Reptile	ARNG	1	Clark County TA	Onsite	No
				FORSCOM	1	Fort Irwin	Onsite	Yes
		T(S/A)	Reptile	ARNG	2	Florence Military Reservation	Onsite	No
<i>Gopherus polyphemus</i>	Gopher tortoise	T	Reptile	ARNG	4	Camp Shelby	Onsite	No
<i>Grus americana</i>	Whooping crane	E	Bird	ARNG	6	Greenlief TS (formerly Hastings TS)	Contiguous	No
				ATEC	2	Fort Hood	Contiguous	No
				ATEC	2	White Sands Missile Range	Contiguous	No
<i>Gymnogyps californianus</i>	California condor	E	Bird	ARNG	1	Camp Roberts TS	Onsite	No
				ARNG	1	Camp San Luis Obispo	Onsite	No
				ATEC	2	White Sands Missile Range	Contiguous	No
				USARC	1	Fort Hunter Liggett	Contiguous	No
<i>Haliaeetus leucocephalus</i>	Bald eagle	T	Bird	AMC	5	Aberdeen Proving Ground	Onsite	No
				AMC	5	Adelphi Army Research Laboratory	Onsite	No
				AMC	6	Deseret Chemical Depot	Contiguous	No
				AMC	4	Holston AAP	Contiguous	No
				AMC	3	Newport Chemical Activity	Contiguous	No
				AMC	5	Picatinny Arsenal	Contiguous	No
				AMC	4	Redstone Arsenal	Onsite	No
				AMC	3	Rock Island Arsenal	Onsite	No
				AMC	6	Rocky Mountain Arsenal	Onsite	No
				AMC	6	Sunflower AAP	Contiguous	No
				AMC	6	Tooele Army Depot	Contiguous	No
				AMC	3	Twin Cities AAP	Contiguous	No
				ARNG	3	Atterbury TS	Onsite	No
				ARNG	4	Camp Blanding	Onsite	No
ARNG	3	Camp Crowder	Onsite	No				

Scientific Name (Genus species)	Common Name	Federal Status	Category	MACOM	USFWS Region	Installation	Onsite/ Contiguous	Critical Habitat on Installation?
				ARNG	3	Camp Grayling	Onsite	No
				ARNG	6	Camp Guernsey	Contiguous	No
				ARNG	1	Camp Murray	Contiguous	No
				ARNG	2	Camp Navajo	Onsite	No
				ARNG	3	Camp Perry	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	5	Fort Pickett	Onsite	No
				ARNG	3	Ike Skeleton TS	Onsite	No
				ARNG	3	Macon TS	Onsite	No
				ARNG	1	Stead TS	Contiguous	No
				ARNG	3	Truman Reservoir TS	Onsite	No
				ARNG	6	STARC-UT	Contiguous	No
				ATEC	6	Dugway Proving Ground	Onsite	No
				ATEC	2	White Sands Missile Range	Onsite	No
				FORSCOM	2	Fort Hood	Onsite	No
				FORSCOM	1	Fort Lewis	Onsite	No
				FORSCOM	6	Fort Riley	Onsite	No
				FORSCOM	4	Fort Stewart	Onsite	No
				FORSCOM	1	Yakima Training Center	Onsite	No
				MDW	5	Fort A.P. Hill	Onsite	No
				MDW	5	Fort Belvoir	Onsite	No

Scientific Name (Genus species)	Common Name	Federal Status	Category	MACOM	USFWS Region	Installation	Onsite/ Contiguous	Critical Habitat on Installation?
<i>Haliaeetus leucocephalus</i> (cont.)	Bald eagle	T	Bird	MTMC	4	Military Ocean Terminal-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
				USACE	3	Savanna Army Depot Activity	Onsite	No
				USARC	5	Devens RFTA	Contiguous	No
				USARC	1	Fort Hunter Liggett	Onsite	No
				USARC	3	Fort McCoy	Contiguous	No
USMA	5	West Point Military Reservation	Onsite	No				
<i>Haplostachys haplostachya</i>	Hawaiian mint	E	Plant	USARPAC	1	Pohakuloa TA	Onsite	No
<i>Hedeoma todsenii</i>	Todsen's pennyroyal	E	Plant	ATEC	2	White Sands Missile Range	Onsite	Yes
<i>Hedyotis coriacea</i>	Kio`ele	E	Plant	USARPAC	1	Pohakuloa TA	Onsite	No
<i>Hedyotis degeneri</i>	None	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
<i>Hedyotis fluviatilis</i>	Kampua`a	C	Plant	USARPAC	1	Kawailoa TA	Onsite	No
<i>Hedyotis parvula</i>	None	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
<i>Helianthus eggertii</i>	Eggert's sunflower	T	Plant	ARNG	4	Tulahoma TS	Onsite	No
<i>Helonias bullata</i>	Swamp pink	T	Plant	MDW	5	Fort A.P. Hill	Onsite	No
<i>Hemignathus munroi</i>	Akiapola`au (honeycreeper)	E	Bird	USARPAC	1	Pohakuloa TA	Onsite	No
<i>Hesperomannia arborescens</i>	None	E	Plant	USARPAC	1	Kawailoa TA	Onsite	No
				USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
<i>Hibiscus brackenridei</i>	Ma`o hau hele	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No

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<i>Himantopus mexicanus knudseni</i>	Hawaiian stilt	E	Bird	ARNG	1	Ukumehame Range	Onsite	No
<i>Holocarpha macradenia</i>	Santa Cruz tarplant	T	Plant	ARNG	1	Santa Cruz Armory	Onsite	No
<i>Howellia aquatilis</i>	Water howellia	T	Plant	FORSCOM	1	Fort Lewis	Onsite	No
<i>Hymenoxys texana</i>	Texas prairie dawn-flower	E	Plant	ARNG	2	Addicks Reservoir WETS	Onsite	No
				ARNG	2	Barker Dam WETS	Onsite	No
<i>Isodendron longifolium</i>	Aupaka	T	Plant	USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
<i>Isoetes louisianensis</i>	Louisiana quillwort	E	Plant	ARNG	4	Camp Shelby	Onsite	No
<i>Isotria medeoloides</i>	Small whorled pogonia	T	Plant	MDW	5	Fort A.P. Hill	Onsite	No
				ARNG	5	New Hampshire NGTS	Contiguous	No
<i>Korthalsella degeneri</i>	Hulumoa	C	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
<i>Labordia cyrtandrae</i>	Kamakahala	E	Plant	USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
<i>Lampsilis abrupta</i>	Pink mucket pearlymussel	E	Clam	FORSCOM	4	Fort Campbell	Contiguous	No
<i>Lampsilis higginsii</i>	Higgins Eye pearlymussel	E	Clam	AMC	3	Rock Island Arsenal	Contiguous	No
				USACE	3	Savanna Army Depot Activity	Onsite	No
<i>Lasiurus cinereus semotus</i>	Hawaiian hoary bat	E	Mammal	ARNG	1	Kanaio WETS	Contiguous	No
				ARNG	1	Keaukaha Military Reservation	Onsite	No
				USARPAC	1	Kawailoa TA	Onsite	No
				USARPAC	1	Makua Military Reservation	Onsite	No
				USARPAC	1	Pohakuloa TA	Onsite	No
<i>Lasthenia conjugens</i>	Contra costa goldfields	E	Plant	TRADOC	1	Presidio of Monterey Annex	Contiguous	No
<i>Lepidium arbuscula</i>	`Anaunau	E	Plant	USARPAC	1	Dillingham Military Reservation	Onsite	No
				USARPAC	1	Makua Military Reservation	Onsite	No
				USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
<i>Lepidium papilliferum</i>	Slick spot peppergrass	C	Plant	ARNG	1	Orchard Range TS	Onsite	No
<i>Lepidochelys kempii</i>	Kemp's ridley sea turtle	E	Reptile	MTMC	4	Military Ocean Terminal-Sunny Point	Contiguous	No

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<i>Leptonycteris curasoae yerbabuena</i>	Lesser long-nosed bat	E	Mammal	ARNG	2	Marana SBAH Facilities	Contiguous	No
				TRADOC	2	Fort Huachuca	Onsite	No
<i>Lilaeopsis schaffneriana</i> var. <i>recurva</i>	Huachuca water-umbel	E	Plant	TRADOC	2	Fort Huachuca	Onsite	Yes
<i>Lipochaeta tenuifolia</i>	Nehe	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
<i>Lobelia gaudichaudii</i> ssp. <i>koolauensis</i>	None	E	Plant	USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
<i>Lobelia niihauensis</i>	None	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
<i>Lobelia oahuensis</i>	None	E	Plant	USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
<i>Loxioides bailleui</i>	Palila	E	Bird	USARPAC	1	Pohakuloa TA	Contiguous	Yes
<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
				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	Military Ocean Terminal-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>Meda fulgida</i>	Spikedace	T	Fish	TRADOC	2	Fort Huachuca	Contiguous	No
<i>Megalagrion xanthomelas</i>	Orangeblack Hawaiian damselfly	C	Invertebrate	USARPAC	1	Tripler Army Med Center	Onsite	No
<i>Melicope hiiakae</i>	Alani	C	Plant	USARPAC	1	Kawailoa TA	Onsite	No
<i>Melicope lydgatei</i>	Alani	E	Plant	USARPAC	1	Kawailoa TA	Onsite	No
<i>Mustela nigripes</i>	Black-footed ferret	E	Mammal	A TEC	2	White Sands Missile Range	Contiguous	No

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<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	4	Holston AAP	Onsite	No
				AMC	3	Indiana AAP	Onsite	No
				AMC	4	Redstone Arsenal	Onsite	No
				ARNG	4	Fort McClellan	Onsite	No
				ARNG	4	Tullahoma TS	Contiguous	No
				ARNG	4	Wendall H. Ford Regional TS	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
<i>Myotis sodalis</i>	Indiana bat	E	Mammal	AMC	3	Iowa AAP	Onsite	No
				AMC	3	Newport Chemical Activity	Onsite	No
				AMC	5	Picatunny Arsenal	Onsite	No
				AMC	4	Redstone 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
				TRADOC	3	Fort Leonard Wood	Onsite	No
				USACE	3	Jefferson Proving Ground	Onsite	No
USMA	5	West Point Military Reservation	Onsite	No				

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<i>Myrsine fosbergii</i>	Kolea	C	Plant	USARPAC	1	Kawailoa TA	Onsite	No
<i>Myrsine juddii</i>	Kolea	E	Plant	USARPAC	1	Kawailoa TA	Onsite	No
<i>Neonympha mitchellii francisci</i>	Saint Francis' satyr butterfly	E	Invertebrate	FORSCOM	4	Fort Bragg	Onsite	No
<i>Neraudia angulata var angulata</i>	Ma`aloa	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
<i>Neraudia angulata var dentata</i>	Ma`aloa	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
<i>Neraudia ovata</i>	Ma`aloa	E	Plant	USARPAC	1	Pohakuloa TA	Onsite	No
<i>Nerodia erythrogaster neglecta</i>	Northern copperbelly water snake	T	Reptile	FORSCOM	4	Fort Campbell	Contiguous	No
<i>Nesochen sandvicensis</i>	Hawaiian goose	E	Bird	USARPAC	1	Pohakuloa TA	Onsite	No
<i>Nicrophorus americanus</i>	American burying beetle	E	Invertebrate	AMC	2	McAlester AAP	Onsite	No
				ARNG	2	Camp Gruber TS	Onsite	No
				ARNG	4	Fort Chaffee	Onsite	No
<i>Nothoestrum latifolium</i>	`Aiea	C	Plant	USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
<i>Nototrichium humile</i>	Kulu`i	E	Plant	USARPAC	1	Dillingham Military Reservation	Contiguous	No
				USARPAC	1	Makua Military Reservation	Onsite	No
<i>Notropis topeka</i>	Topeka shiner	E	Fish	FORSCOM	6	Fort Riley	Onsite	No
<i>Obovaria retusa</i>	Ring pink (mussel)	E	Clam	FORSCOM	4	Fort Campbell	Contiguous	No
<i>Oncorhynchus mykiss</i>	Steelhead (Upper Columbia River ESU)	E	Fish	FORSCOM	1	Yakima Training Center	Onsite	Yes
<i>Oncorhynchus mykiss</i>	Steelhead (Middle Columbia River ESU)	T	Fish	FORSCOM	1	Yakima Training Center	Onsite	Yes
				ARNG	1	Camp Roberts TS	Onsite	Yes
				ARNG	1	Camp San Luis Obispo	Onsite	Yes
<i>Oncorhynchus tshawytscha</i>	Chinook Salmon	T	Fish	USARC	1	70TH RSC HQ	Contiguous	No
		E		FORSCOM	1	Yakima Training Center	Onsite	Yes
<i>Ottoschulzia rhodoxylon</i>	Palo de rosa	E	Plant	USARSO	4	Fort Buchanan	Onsite	No
<i>Palaemonias alabamiae</i>	Alabama cave shrimp	E	Invertebrate	AMC	4	Redstone Arsenal	Onsite	No
<i>Pelecanus occidentalis</i>	Brown pelican	E	Bird	ARNG	1	Camp Rilea	Contiguous	No

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<i>Percina rex</i>	Roanoke logperch	E	Fish	ARNG	5	Fort Pickett	Onsite	No
<i>Phlegmariurus nutans</i>	Wawae`iole	E	Plant	USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
				USARPAC	1	Kawailoa TA	Onsite	No
<i>Phyllostegia hirsuta</i>	None	E	Plant	USARPAC	1	Kawailoa TA	Onsite	No
				USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
<i>Phyllostegia mollis</i>	None	E	Plant	USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
<i>Picoides borealis</i>	Red-cockaded woodpecker	E	Bird	ARNG	4	Camp Beauregard	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	Military Ocean Terminal-Sunny Point	Onsite	No
				TRADOC	4	Fort Benning	Onsite	No
				TRADOC	4	Fort Gordon	Onsite	No
TRADOC	4	Fort Jackson	Onsite	No				
<i>Piperia yadonii</i>	Yadon's piperia	E	Plant	TRADOC	1	Presidio of Monterey	Onsite	No
<i>Pituophis melanoleucus lodingi</i>	Black pine snake	C	Reptile	ARNG	4	Camp Shelby	Contiguous	No
<i>Plantago princeps</i>	Kuahiwi laukahi	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
				USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
<i>Platydesma cornuta cornuta</i>	None	C	Plant	USARPAC	1	Kawailoa TA	Onsite	No
<i>Platydesma cornuta descurrens</i>	None	C	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
<i>Pleomele forbesii</i>	Hala pepe	C	Plant	USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
				USARPAC	1	Makua Military Reservation	Onsite	No

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<i>Plethobasus cooperianus</i>	Orange-foot pimpleback (pearlymussel)	E	Clam	FORSCOM	4	Fort Campbell	Contiguous	No
<i>Pleurobema plenum</i>	Rough pigtoe	E	Clam	FORSCOM	4	Fort Campbell	Contiguous	No
<i>Portulaca sclerocarpa</i>	Po'e	E	Plant	USARPAC	1	Pohakuloa TA	Onsite	No
<i>Pritchardia kaalae</i>	Loulu	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
<i>Psychotria hexandra ssp. oahuensis</i>	Kopiko	C	Plant	USARPAC	1	Kawailoa TA	Onsite	No
<i>Pteralyxia macrocarpa</i>	Kaulu	C	Plant	USARPAC	1	Kahuku TA	Onsite	No
				USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
				USARPAC	1	Makua Military Reservation	Onsite	No
<i>Pteris lidgatei</i>	None	E	Plant	USARPAC	1	Kawailoa TA	Onsite	No
				USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
<i>Pterodroma phaeopygia sandwichensis</i>	Hawaiian dark- rumped petrel	E	Bird	USARPAC	1	Pohakuloa TA	Contiguous	No
<i>Ptilimnium nodosum</i>	Harperella	E	Plant	ARNG	5	BG Thomas B. Baker TS (formerly Lil Aaron Strauss)	Onsite	No
<i>Pyrgulopsis thompsoni</i>	Huachuca springsnail	C	Snail	TRADOC	2	Fort Huachuca	Onsite	No
<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	Amphibian	ARNG	1	Camp San Luis Obispo	Onsite	No
				TRADOC	1	Presidio of Monterey Annex	Contiguous	No
				USARC	1	Fort Hunter Liggett	Contiguous	No
				USARC	1	Parks RFTA	Onsite	No
<i>Rana chiricahuensis</i>	Chiricahua leopard frog	PT	Amphibian	TRADOC	2	Fort Huachuca	Onsite	No
<i>Rhadine exilis</i>	Ground beetle	E	Invertebrate	MEDCOM	2	Fort Sam Houston	Onsite	No
<i>Rhadine infernalis</i>	Ground beetle	E	Invertebrate	MEDCOM	2	Fort Sam Houston	Onsite	No
<i>Rhinichthys cobitis</i>	Loach minnow	T	Fish	TRADOC	2	Fort Huachuca	Contiguous	No
<i>Rhododendron chapmanii</i>	Chapman's 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 marivera</i>	None	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No

Scientific Name (Genus species)	Common Name	Federal Status	Category	MACOM	USFWS Region	Installation	Onsite/ Contiguous	Critical Habitat on Installation?
<i>Sanicula purpurea</i>	None	E	Plant	USARPAC	1	Kawailoa TA	Onsite	No
				USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
<i>Sarracenia oreophila</i>	Green pitcher-plant	E	Plant	MDW	5	Fort AP Hill	Onsite	No
<i>Sarracenia rubra alabamensis</i>	Alabama canebrake pitcher-plant	E	Plant	MDW	5	Fort AP Hill	Onsite	No
<i>Sarracenia rubra</i> ssp. <i>jonesii</i>	Mountain sweet pitcher-plant	E	Plant	MDW	5	Fort AP Hill	Onsite	No
<i>Scaphirhynchus albus</i>	Pallid sturgeon	E	Fish	ARNG	6	Camp Ashland	Contiguous	No
<i>Schiedea adamantis</i>	Ma'oli'oli	E	Plant	ARNG	1	Fort Ruger	Onsite	No
<i>Schiedea hookeri</i>	None	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
<i>Schiedea kealiae</i>	Ma'oli'oli	E	Plant	USARPAC	1	Dillingham Military Reservation	Onsite	No
<i>Schiedea nuttallii</i>	None	E	Plant	USARPAC	1	Makua Military Reservation	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>	None	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
				USARPAC	1	Pohakuloa TA	Onsite	No
<i>Sistrurus catenatus</i>	Eastern massasauga	C	Reptile	ARNG	3	Camp Grayling	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>Spermolepis hawaiiensis</i>	None	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
		E	Plant	USARPAC	1	Pohakuloa TA	Onsite	No
<i>Speyeria zerene hippolyta</i>	Oregon silverspot butterfly	T	Invertebrate	ARNG	1	Camp Rilea	Onsite	No
<i>Spiranthes diluvialis</i>	Ute ladies'-tresses	T	Plant	FORSCOM	1	Yakima Training Center	Contiguous	No
<i>Stenogyne angustifolia</i> var. <i>angustifolia</i>	None	E	Plant	USARPAC	1	Pohakuloa TA	Onsite	No

Scientific Name (Genus species)	Common Name	Federal Status	Category	MACOM	USFWS Region	Installation	Onsite/ Contiguous	Critical Habitat on Installation?
<i>Sterna antillarum</i>	Least tern	E	Bird	ARNG	5	DMAVA	Onsite	No
				ARNG	5	Sea Girt TS	Onsite	No
				ARNG	6	Camp Ashland	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	Onsite	Yes
				ATEC	2	Fort Wingate Army Depot	Contiguous	Yes
				ATEC	2	White Sands Missile Range	Onsite	No
				FORSCOM	6	Fort Carson	Onsite	No
				TRADOC	2	Fort Huachuca	Onsite	Yes
<i>Tetramolopium arenarium</i>	None	E	Plant	USARPAC	1	Pohakuloa TA	Onsite	No
<i>Tetramolopium filiforme</i>	None	E	Plant	USARPAC	1	Makua Military Reservation	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 Military Reservation	Onsite	No
<i>Texella cokendolpheri</i>	Robber Baron Cave harvestman	E	Invertebrate	FORSCOM	2	Fort Hood	Onsite	No
<i>Texella reddelli</i>	Bee Creek Cave harvestman	E	Invertebrate	FORSCOM	2	Fort Hood	Onsite	No
<i>Texella reyesi</i>	Bone Cave harvestman	E	Invertebrate	FORSCOM	2	Fort Hood	Onsite	No
<i>Thalictrum cooleyi</i>	Cooley's meadowrue	E	Plant	MTMC	4	Military Ocean Terminal-Sunny Point	Contiguous	No

Scientific Name (Genus species)	Common Name	Federal Status	Category	MACOM	USFWS Region	Installation	Onsite/ Contiguous	Critical Habitat on Installation?
<i>Thelypteris boydiae</i>	None	C	Plant	USARPAC	1	Kawailoa TA	Onsite	No
<i>Trichechus manatus</i>	West Indian manatee	E	Mammal	MTMC	4	Military Ocean Terminal-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 Military Reservation	Onsite	No
<i>Viola chamissoniana</i> ssp. <i>chamissoniana</i>	Pamakani	E	Plant	USARPAC	1	Makua Military Reservation	Onsite	No
				USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
<i>Viola oahuensis</i>	None	E	Plant	USARPAC	1	Kawailoa TA	Onsite	No
<i>Vireo atricapillus</i>	Black-capped vireo	E	Bird	ARNG	2	Camp Barkeley	Onsite	No
				FORSCOM	2	Fort Hood	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
<i>Xyris tennesseensis</i>	Tennessee yellow-eyed grass	E	Plant	AMC	4	Anniston Army Depot	Onsite	No
				ARNG	4	Fort McClellan	Onsite	No
<i>Zanthoxylum hawaiiense</i>	A`e	E	Plant	USARPAC	1	Pohakuloa TA	Onsite	No
<i>Zanthoxylum oahuense</i>	A`e	C	Plant	USARPAC	1	Kawailoa TA	Onsite	No
				USARPAC	1	Schofield Barracks Military Reservation	Onsite	No
<i>Zapus hudsonius preblei</i>	Preble's meadow jumping mouse	T	Mammal	AMC	6	Rocky Mountain Arsenal	Contiguous	No
				ARNG	6	Douglas WY Armory	Contiguous	No
				FORSCOM	6	Fort Carson	Contiguous	No

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# **Appendix C: ESMP Status & Installation Location by TIM Region**

### **Southwest Region<sup>9</sup>**

<b>USFWS Region</b>	<b>STATE</b>	<b>MACOM</b>	<b>INSTALLATION</b>	<b>ESMP STATUS</b>
<b>1</b>	<b>California</b>	AMC	Riverbank AAP	Not Required
		AMC	Sierra Army Depot	Not Required
		FORSCOM	Fort Irwin	Partially Complete >0% but < 60%
		TRADOC	Presidio, Monterey	Complete
		TRADOC	Presidio, Monterey Annex	Complete
		USARC	63RD RSC HQ	Not Initiated 0% Complete
		USARC	Fort Hunter Liggett	Partially Complete ≥ 60%
		USARC	Parks RFTA	Partially Complete ≥ 60%
<b>2</b>	<b>Arizona</b>	TRADOC	Fort Huachuca	Partially Complete ≥ 60%
	<b>New Mexico</b>	ATEC	White Sands Missile Range	Partially Complete >0% but <60%
		ATEC <sup>5</sup>	Fort Wingate	Did Not Report
	<b>Oklahoma</b>	AMC	McAlester AAP	Complete
	<b>Texas</b>	TRADOC	Fort Sill	Complete
		AMC	Longhorn AAP	Not Required
		FORSCOM	Fort Hood	Complete
		MEDCOM	Fort Sam Houston	Partially Complete >0% but <60%
		TRADOC	Fort Bliss	Partially Complete ≥ 60%

### **Pacific Region**

<b>USFWS Region</b>	<b>STATE</b>	<b>MACOM</b>	<b>INSTALLATION</b>	<b>ESMP STATUS</b>
<b>1</b>	<b>Hawaii</b>	USARPAC	Dillingham Mil Res	Partially Complete ≥ 60%
		USARPAC	Kahuku TA	Partially Complete >0% but <60%
		USARPAC	Kawailoa TA	Partially Complete >0% but <60%
		USARPAC	Makua Military Reservation	Partially Complete ≥ 60%
		USARPAC	Pohakuloa TA	Partially Complete ≥ 60%
		USARPAC	Schofield Barracks Military Rsvtn	Partially Complete ≥ 60%
		USARPAC	Tripler Army Medical Center	Not Required

<sup>5</sup> Ft. Wingate is undergoing transfer of ownership and a portion will be retained under White Sands Missile Range.

<sup>9</sup> All 131 installations that reported onsite or contiguous TES are grouped into their respective regions, identified in the Transformation of Installation Management (TIM). National Guard installations are grouped into a separate region for location identification purposes.

### **Northwest Region**

<b>USFWS Region</b>	<b>STATE</b>	<b>MACOM</b>	<b>INSTALLATION</b>	<b>ESMP STATUS</b>
<b>1</b>	<b>Washington</b>	FORSCOM	Fort Lewis	Complete
		FORSCOM	Yakima TC	Complete
		USARC	70TH RSC HQ	Not initiated (0% complete)
<b>3</b>	<b>Illinois</b>	AMC	Rock Island Arsenal	Complete
	<b>Indiana</b>	AMC	Indiana AAP	Complete
		AMC	Newport Chemical Activity	Complete
<b>3</b>	<b>Indiana</b>	USACE	Jefferson Proving Ground- BRAC	Did Not Report
		USACE	Savanna Army Depot-BRAC	Did Not Report
<b>6</b>	<b>Iowa</b>	AMC	Iowa AAP	Complete
	<b>Minnesota</b>	AMC	Twin Cities AAP	Not Required
	<b>Missouri</b>	TRADOC	Fort Leonard Wood	Partially Complete $\geq$ 60%
	<b>Wisconsin</b>	USARC	Fort McCoy	Complete
		AMC	Pueblo Depot Activity	Complete
<b>6</b>	<b>Colorado</b>	AMC	Rocky Mountain Arsenal	Not Required
		FORSCOM	Fort Carson	Partially Complete $\geq$ 60%
		AMC	Sunflower AAP	Not Required
	<b>Kansas</b>	FORSCOM	Fort Riley	Complete
		TRADOC	Fort Leavenworth	Not Required
		AMC	Deseret Chemical Depot	Not Required
		AMC	Tooele Army Depot	Not Required
	<b>Utah</b>	ATEC	Dugway Proving Ground	Not Required

### **Southeast Region**

<b>SFWS Region</b>	<b>STATE</b>	<b>MACOM</b>	<b>INSTALLATION</b>	<b>ESMP STATUS</b>
<b>4</b>	<b>Alabama</b>	AMC	Anniston Army Depot	Complete
		AMC	Redstone Arsenal	Complete
		TRADOC	Fort Rucker	Not Required
		USARC	81ST RSC HQ	Partially Complete $>0\%$ but $<60\%$
	<b>Arkansas</b>	AMC	Pine Bluff Arsenal	Not Required
		FORSCOM	Fort Stewart	Complete
	<b>Georgia</b>	TRADOC	Fort Benning	Partially Complete $\geq$ 60%
		TRADOC	Fort Gordon	Partially Complete $\geq$ 60%
		AMC	Bluegrass Army Depot	Complete
		FORSCOM	Fort Campbell	Partially Complete $\geq$ 60%
	<b>Kentucky</b>	TRADOC	Fort Knox	Complete
		AMC	Louisiana AAP	Not Required
		FORSCOM	Fort Polk	Partially Complete $\geq$ 60%
	<b>Louisiana</b>	FORSCOM	Fort Bragg	Complete
	<b>North Carolina</b>	MTMC	Mil Ocean Term Sunny Pt	Partially Complete $\geq$ 60%
		USARSO	Fort Buchanan	Complete
	<b>Puerto Rico</b>	TRADOC	Fort Jackson	Complete
	<b>South Carolina</b>	AMC	Holston AAP	Not Initiated (0% Complete)
		AMC	Volunteer AAP	Not Required

**Northeast Region**

USFWS Region	STATE	MACOM	INSTALLATION	ESMP STATUS
5	Maryland	AMC	Aberdeen Proving Ground	Complete
		AMC	Adelphi Laboratory Center	Partially Complete >0% but <60%
	Massachusetts	USARC	Devens RFTA	Not Required
	New Jersey	AMC	Picatinny Arsenal	Partially Complete >0% but <60%
	New York	FORSCOM	Fort Drum	Not Required
		USMA	West Point Military Reservation	Complete
	Virginia	MDW	Fort A. P. Hill	Complete
	Virginia	MDW	Fort Belvoir	Complete
		TRADOC	Fort Eustis	Complete
		TRADOC	Fort Lee	Complete

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USFWS Region	STATE	MACOM	INSTALLATION	ESMP STATUS
1	California	ARNG	Camp Roberts TS	Not Required
		ARNG	Camp San Luis Obispo	Not Required
		ARNG	Santa Cruz Armory	Did Not Report
	Hawaii	ARNG	Fort Ruger	Complete
		ARNG	Kanaio WETS	Complete
		ARNG	Keaukaha Military Reservation	Complete
		ARNG	Ukumehame Firing Range	Complete
	Idaho	ARNG	Orchard Range TS	Not Required
	Nevada	ARNG	Clark County TA	Not Required
		ARNG	Stead TS	Not Required
	Oregon	ARNG	Camp Adair	Partially Complete ≥ 60%
		ARNG	Camp Rilea	Complete
	Washington	ARNG	Camp Murray	Complete
	2	Arizona	ARNG	Camp Navajo
ARNG			Florence Military Reservation	Not Required
ARNG			Marana SBAH Facilities	Not Required
Oklahoma		ARNG	Camp Gruber TS	Not Required
Texas		ARNG	Addicks Reservoir TS	Not Required
		ARNG	Barker Dam WETS	Not Required
ARNG		Camp Barkeley	Partially Complete ≥ 60%	
3	Indiana	ARNG	Atterbury TS	Partially Complete ≥ 60%
	Michigan	ARNG	Camp Grayling	Complete
	Minnesota	ARNG	Camp Ripley	Complete
	Missouri	ARNG	Camp Crowder	Complete
		ARNG	Ike Skeleton Training Site	Not Required
		ARNG	Macon TS	Not Required
		ARNG	Truman Reservoir TS	Not Required

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(continued)

3	<b>Ohio</b>	ARNG	Camp Perry	Not Initiated (0% Complete)
4	<b>Alabama</b>	ARNG	Fort McClellan	Partially Complete >0% but <60%
	<b>Arkansas</b>	ARNG	Camp Robinson	Not Required
		ARNG	Fort Chaffee	Complete
	<b>Florida</b>	ARNG	Camp Blanding	Complete
	<b>Kentucky</b>	ARNG	Wendall Ford Regional TC	Not Required
	<b>Louisiana</b>	ARNG	Camp Beauregard	Partially Complete $\geq$ 60%
	<b>Mississippi</b>	ARNG	Camp Shelby	Partially Complete $\geq$ 60%
	<b>South Carolina</b>	ARNG	Leesburg TS	Complete
	<b>Tennessee</b>	ARNG	Tulahoma TS	Partially Complete $\geq$ 60%
5	<b>Maryland</b>	ARNG	BG Thomas B. Baker (formerly Lil Aaron Strauss Area)	Partially Complete $\geq$ 60%
	<b>New Hampshire</b>	ARNG	New Hampshire NG TS	Not Required
		ARNG	NH State Military Reservation	Not Required
	<b>New Jersey</b>	ARNG	DMAVA	Not Initiated (0% Complete)
		ARNG	Sea Girt NG TS	Not Initiated (0% Complete)
	<b>New York</b>	ARNG	Camp Smith TS	Not Required
	<b>Virginia</b>	ARNG	Fort Pickett	Complete
6	<b>Kansas</b>	ARNG	Kansas Reserve TC	Not Required
		ARNG	Salina Smokey Hill TA	Not Required
	<b>Montana</b>	ARNG	Fort Harrison	Not Required
	<b>Nebraska</b>	ARNG	Camp Ashland Greenlief TS	Partially Complete >0% but <60%
		ARNG	(formerly Hastings TS)	Partially Complete >0% but <60%
	<b>North Dakota</b>	ARNG	Garrison TS	Partially Complete $\geq$ 60%
	<b>Utah</b>	ARNG	Camp Williams	Not Required
		ARNG	Cedar City Armory	Did Not Report
		ARNG	St. George Armory	Not Required
		ARNG	STARC-UT	Did Not Report
	<b>Wyoming</b>	ARNG	Camp Guernsey	Not Required
	ARNG	Douglas WY Armory	Not Required	
	ARNG	Sheridan LTA	Not Required	

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