

Installation Summaries from the FY 2004 Survey of Threatened and Endangered Species on Army Lands

April 2005

FINAL

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

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4. TITLE AND SUBTITLE				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT					
13. SUPPLEMENTARY NOTES					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON
a. REPORT	b. ABSTRACT	c. THIS PAGE			19b. TELEPHONE NUMBER (Include area code)

Installation Summaries from the FY 2004 Survey of Threatened and Endangered Species on Army Lands

This report, as part of a continuing series, summarizes the Army's Threatened and Endangered species data. Data are obtained from various sources, including the Army's Environmental Quality Report (EQR), U.S. Fish and Wildlife Service (FWS), HQDA, IMA Regions, MACOMs, and Army installations. Installation-level data provide information on federally-listed species occurrences onsite or contiguous to each installation. Species-level data list all installations on which each species occurs. Corresponding

information on federal status, critical habitat, consultations, Endangered Species Management Components (ESMCs), Threatened and Endangered Species Planning Level Surveys (PLSs), and Threatened and Endangered Species Expenditures are provided. Also included in this report are the species at risk (SAR) known to occur on Army installations as reported in a 2004 document prepared by NatureServe. Web links are also provided for use in accessing further information on listed species.

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1 Executive Summary

As of 1 October 2004, the Army has recorded 177 federally Threatened and Endangered (T&E) (expanded definitions found in section 5) species on 100 installations and 251 Species at Risk (SAR) on or adjacent to 72 installations. Figure 1 shows the breakdown by category of the onsite¹ T&E species for Fiscal Year (FY) 2004. The Army also has 15 installations with designated critical habitat occurring for one or more species, and five (5) installations with unoccupied critical habitat. Appendices A, B, and C provide data on all the installations and federally Threatened, Endangered, Proposed, and Candidate Species (TEPC) reported in FY 2004. To allow for quick and easy reference, the data have been sorted by installation, scientific name and common name in Appendix A, B, C, respectively.

In FY 2004, the Army spent over \$26.5 million dollars on TEPC management. This figure includes Endangered Species Act (ESA) reportable expenses² of over \$21 million dollars, including expenditures on both onsite and contiguous³ species. In addition, over \$5 million dollars were spent on non-reportable expenses⁴ for onsite and contiguous species. These monetary figures do not include dollars that are expended by military operations or military construction for work-arounds and avoidance. Figure 2 shows reportable and non-reportable expenses from FY 1990-2004 (non-reportable costs captured 1998 and preceding years). Table 1 shows the top ten species, in terms of expenditures, for FY 2003 & 2004.

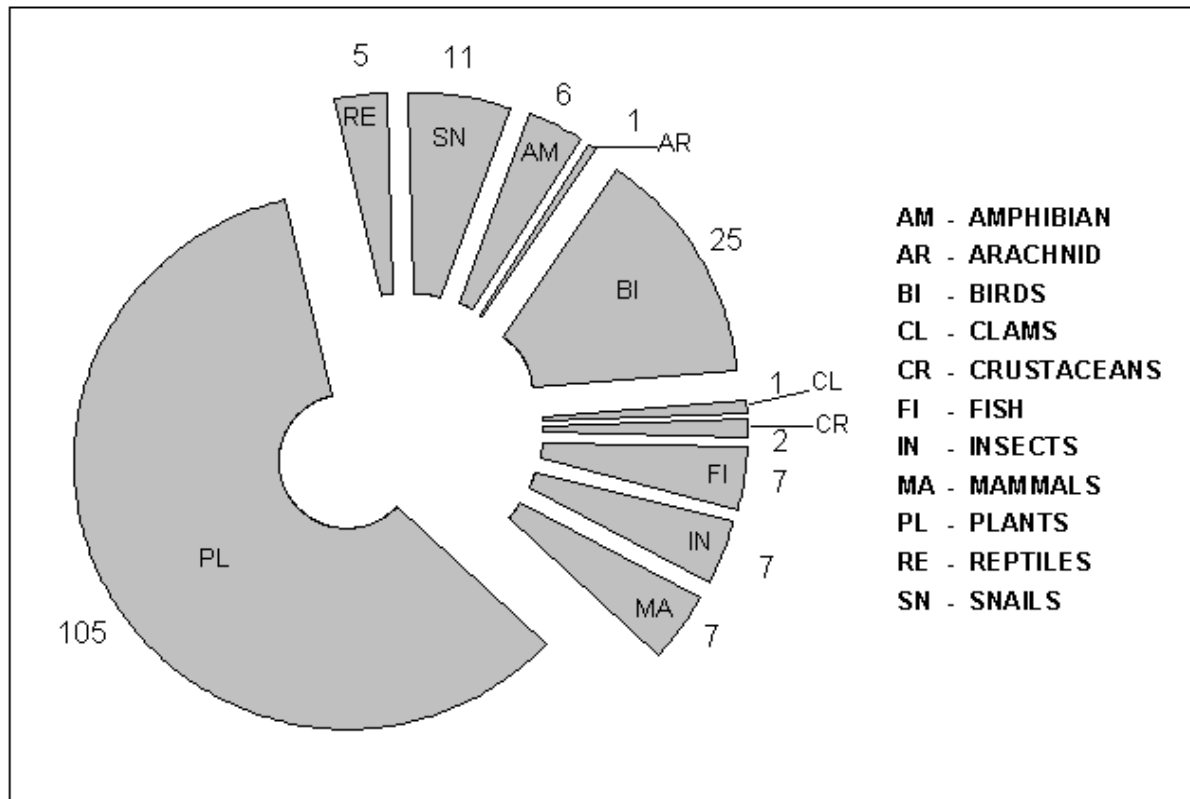


Figure 1. Onsite T&E by Category for FY 2004

¹ Species that have been documented on the installation.

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

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

⁴ Money spent on multi-species projects, Proposed Threatened, Proposed Endangered, Candidate, State-listed, and any other SAR.

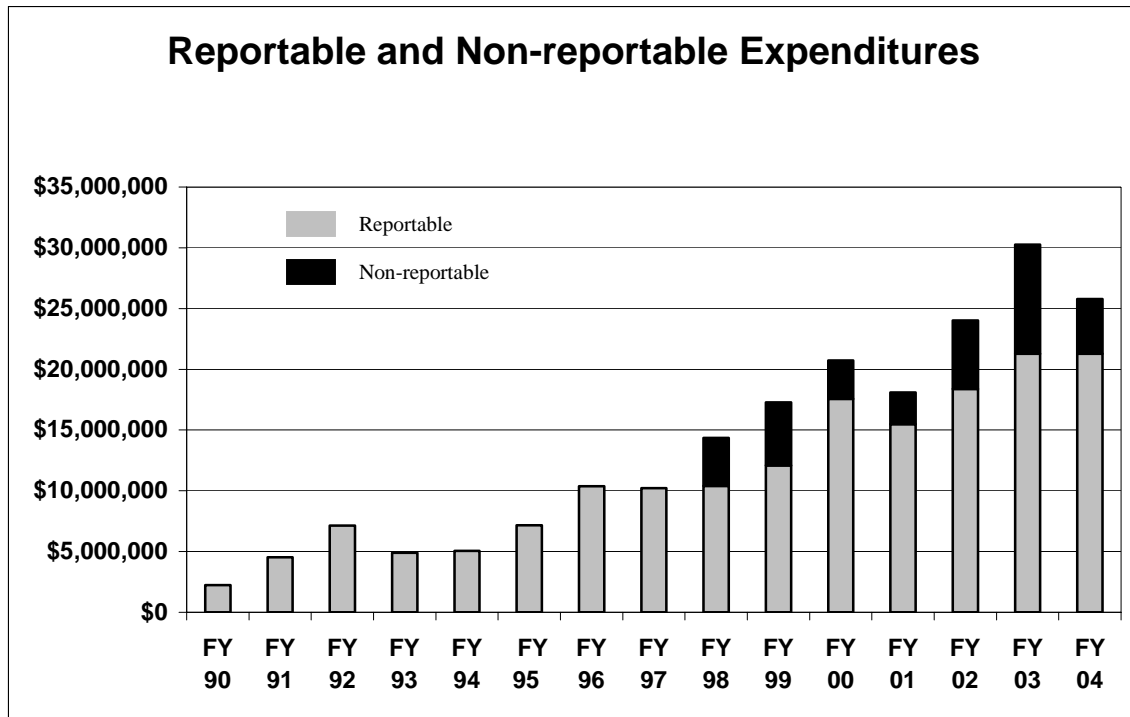


Figure 2. Reportable and Non-reportable T&E expenditures.

Table 1. Army's top T&E expenditures for FY 2003 & 2004.

Top Expenditures for FY 2003	
Species Common Name	Reportable Expenditures (\$K)
Red-cockaded woodpecker	\$4,771.0
Desert tortoise	\$1,361.1
Gopher Tortoise	\$1,225.0
Black-capped vireo	\$1,201.8
Golden-cheeked warbler	\$1,121.0
Indiana bat	\$738.5
Gray bat	\$686.0
Bald eagle	\$679.2
Ground beetle (<i>Rhadine sp.</i>)	\$400.0
Southwestern willow flycatcher	\$392.0

Top Expenditures for FY 2004	
Species Common Name	Reportable Expenditures (\$K)
Red-cockaded woodpecker	\$4,500.7
Golden-cheeked warbler	\$2,137.0
Black-capped vireo	\$2,135.8
Desert tortoise	\$1,083.1
Gopher tortoise	\$930.0
Indiana bat	\$904.7
Gray bat	\$764.9
Bald eagle	\$708.5
Saint Francis' satyr butterfly	\$400.0
Southwestern willow flycatcher	\$335.0

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 federally listed Threatened and Endangered (T&E) species that occur on the lands where it conducts the training of soldiers, testing of weapons and all the other functions essential for national defense. Data collection efforts provide the Army with information that it needs to monitor and manage TEPC, SAR, and their habitats (refer to Section 5 for an expanded definition of the acronyms). Each year, installations enter data on TEPC into the EQR to provide Headquarters, Department of the Army (HQDA) with a list of TEPC occurring within their boundaries and on surrounding lands and to respond to a series of questions about those species. This information gives the Army the ability to assess the status of its TEPC nationwide, to plan for expenditures related to TEPC, and to deal proactively with any potential conflicts between TEPC and the military mission and management efforts. SAR information was not provided by installations, but was taken from the "Species at Risk on Department of Defense Installations" report prepared by NatureServe (DoD 2004 - an update of the 2002 species of concern report (DoD 2002)), and is included in this document for reporting purposes.

The information provided in this report only reflects those TEPC or SAR species that are found on or adjacent to property owned or leased by the Army. The Army National Guard (ARNG) and Army Reserves will also train on land owned by other services. Such lands may have restrictions due to listed or proposed species that affect timing, duration and intensity of training for these units, such as ARNG training on Camp Pendleton or Eglin Air Force Base. The respective service landowner reports these species, so they are not captured in this report. However, the Army is still required to comply with ESA for actions on these sites; therefore, the Army's financial responsibilities for ESA compliance extends beyond Army properties.

The Army Reserves has six installations and ±1,500 facilities spread throughout the country. Base operation functions of this Command are part of the Installation Management Agency (IMA). The installations and the 9th Regional Readiness Command (RRC) have transferred over to the IMA Regions, but the facilities have stayed with the Army Reserves. These facilities are all organized and reported under 11 RRCs (excluding the 9th), each covering multiple states. Therefore, for TEPC species recorded for the RRCs, the specific location or state where the species occurs is not captured in this document. Furthermore, the DoD report (DoD 2002 and DoD 2004) does not adequately cover RRC facilities for SAR.

This report may not capture all the TEPC found on installations that are closed or being closed under Base Realignment and Closure (BRAC) law. The Army does not require these installations to submit data into the Environmental Quality Report (EQR), nor are they required to prepare Integrated Natural Resources Management Plans (INRMPs) under the Sikes Act (Public Law 86-797, as amended; 16 U.S.C. §§ 670-670f). An independent data request was made to update the BRAC installations. These installations may not have an impact on military training or testing, but the presence of listed species could provide tremendous challenges in the effort to dispose of BRAC property.

Objective

The objective of this project is to analyze and report the most current TEPC information from the FY 2004 EQR and other available data sources. This 'real-time' data will help the Army plan how to best comply with its obligations under the ESA and perpetuate its role as an active and effective steward of public land while carrying out its military mission.

Approach

Information summarized by this report is collected from the EQR, NatureServe report and other sources. TEPC-related EQR questions include federal status, presence of critical habitat, the number of informal/formal consultations and biological opinions, and total expenditures for each species on an installation. Information is also collected on the status of an installation's Endangered Species Management Component of the INRMP (ESMC) and Planning Level Survey (PLS), covering all species on the installation. The U.S. Army Environmental Center (USAEC) obtained other necessary data and clarifications from the US Fish and Wildlife Service (FWS), National Oceanic and Atmospheric Administration - National Marine Fisheries Service (NMFS), HQDA, Major Commands (MACOMs), IMA Regions, and Army installations.

Scope

This report encompasses all Army installations with federally-listed onsite or contiguous species as of the end of FY 2004 (30 September 04). Federally-listed species include: Threatened, Endangered, Proposed Threatened, Proposed Endangered, or Candidate status. As in previous EQR submissions, there was missing information or need for clarification of data, so these installations were contacted through their Command to obtain the necessary data. For practical purposes, the survey represents a complete census of Army installations with TEPC. Data in this report are most reflective of current installation summaries, as these data were quality assured/quality controlled at both the IMA Regions, Army National Guard (ARNG), Base Realignment and Closure (BRAC), Regional Readiness Command (RRC), and USAEC levels. The Army Environmental Center tracks the interim status of all information, including new federal listings, species status, and critical habitat designations on Army lands.

3. Changes from Fiscal Year (FY) 2003 Threatened, Endangered, Proposed and Candidate Species (TEPC) Survey

New Species Reported and Species Removed from Installations Reporting TEPC in FY 2004

Table 2 reflects species reported by installations for the first time in FY 2004. Eight species recorded by a total of six installations were added since the FY 2003 published report. Seven of the eight species are recorded onsite and the longhorn beetle is recorded as contiguous.

Table 2. Species Reported in FY 2004 that were not reported in FY 2003.

Scientific Name	Common Name	Category	Status
<i>Anas wyvilliana</i>	Hawaiian duck (=koloa)	Bird	E
<i>Desmocerus californicus dimorphus</i>	Valley elderberry longhorn beetle	Insect	E
<i>Echinocereus fendleri var. kuenzleri</i>	Kuenzler hedgehog cactus	Plant	E
<i>Puma concolor coryi</i>	Florida panther	Mammal	E
<i>Eremophila alpestris strigata</i>	Streaked horned lark	Bird	C
<i>Euphydryas editha taylori</i>	Taylor's checkerspot butterfly	Insect	C
<i>Polites mardon</i>	Mardon skipper	Insect	C
<i>Thomomys mazama</i>	Mazama pocket gopher	Mammal	C

Table 3 represents the species no longer reported on or contiguous to any Army installation in FY 2004 due to withdrawal from consideration, new distribution information, installation closures, or the species no longer recorded by an installation. Five species were removed from a total of five installations.

Table 3. Species removed from installations reporting in FY 2004.

Scientific Name	Common Name	Category	Status 03	Status 04
<i>Chamaesyce deltoidea ssp. deltoidea</i>	Deltoid spurge	Plant	E	E
<i>Charadrius montanus</i>	Mountain plover	Bird	PT	None
<i>Cyprogenia stegaria</i>	Fanshell	Clam	E	E
<i>Lepidium papilliferum</i>	Slick spot peppergrass	Plant	PE	None
<i>Scaphirhynchus albus</i>	Pallid sturgeon	Fish	E	E

4. Summary Information

Installation and Species Information

For the FY 2004 reporting period, information was collected from a total of 127 installations that have either onsite or contiguous TEPC. Of those responding, 105 installations (82.7%) reported onsite TEPC and 22 installations (17.3%) reported only having contiguous TEPC.

Of the 235 TEPC species⁵ recorded onsite or contiguous to Army installations, 155 (66.0%) are Endangered, 48 (20.4%) are Threatened, 31 (13.2%) are Candidates, 2 (<1%) are Threatened due to

⁵ Species that have more than one federal designation (i.e., T/E or T/T(S/A) depending on location) are recorded as one species, such as the desert tortoise populations that are listed as threatened or threatened due to similarity of appearance.

similarity of appearance (includes desert tortoise population) (Table 4). By category, 53.2% of the species are plants, 15.3% are birds, 5.5% are fish, 5.5% are reptiles, 5.5% are mammals, 5.1% are snails, 5.1% are insects, 2.6% are amphibians, 1.3% are crustaceans, <1% are arachnids and clams combined (Table 4).

The 127 installations with onsite or contiguous TEPC include 14 Army Materiel Command, 58 Army National Guard, two Army Reserves Readiness Commands, six Base Realignment and Closure (BRAC), nine IMA NE Region, 10 IMA NW Region, seven IMA Pacific Region, 11 IMA SE Region, and 10 IMA SW Region installations. Table 5 summarizes the numbers of TEPC species that occur within the MACOMs, BRAC and IMA.

Table 4. Federal Status of Onsite or Contiguous TEPC Species by Category for FY 2004.

	Candidate	Threatened	Endangered	Proposed Threatened or Endangered	Threatened due to Similarity of Appearance (T(S/A))	Total by Category
Amphibians	0	4	2	0	0	6
Arachnids	0	0	1	0	0	1
Birds	3	9	24	0	0	36
Clams	0	0	1	0	0	1
Crustaceans	1	1	1	0	0	3
Fish	1	7	5	0	0	13
Insects	3	1	8	0	0	12
Mammals	2 ^a	3	8	0	0	13
Plants	17	17	91	0	0	125
Reptiles	3	6	3	0	2 ^b	14
Snails	1	0	11	0	0	12
Total by Federal Status	31	48	155	0	2	236

^a On 18 August 2004, the FWS determined that proposing a rule to list the black-tailed prairie dog was not warranted, and now the species is no longer considered a candidate species for listing

^b Includes the T(S/A) for desert tortoise, a species listed as threatened on a number of installations.

Table 5. Federal status of distinct onsite or contiguous TEPC reported by AMC/ARNG/BRAC/IMA installations.

	Candidate	Threatened	Endangered	Proposed Threatened or Endangered	Threatened due Similarity of Appearance (T(S/A))	TOTAL # of Species
AMC	1	2	7		1	10
Army National Guard Bureau	4	29	40		2	75
Army Reserve		4	3			7
BRAC	1	5	6		1	13
Northeast		4	3			7
Northwest	8	16	10			34
Pacific	16	2	82			100
Southeast		7	18		1	26
Southwest	5	6	18			29

T&E Species

A total of 205 different T&E species (396 occurrences) were identified by 121 of the 127 installations that reported having onsite or contiguous TEPC. Of the 121 installations, 100 reported having onsite T&E species. The remaining 21 installations reported having only contiguous T&E species. Of the 205 T&E species, 177 species occurred onsite and the remaining 28 species were reported as being contiguous to at least one installation and not onsite at any installation (Table 6). See Appendix D and E, respectively, for a list of installations with T&E species onsite and of all the T&E species found on Army installations.

Table 6. Installations reporting Threatened & Endangered species for FY 2004.

	Onsite	Contiguous	Total
Number of Installations	100	21	121
Number of Distinct Species	177	28	205
Number of Species Occurrences	319	77	396

The bald eagle was the most commonly reported T&E species on Army installations. Fifty-three installations reported the bald eagle, of which 44 of them identified it as onsite. Sixteen of the installations recorded the bald eagle as the only T&E species found onsite. The red-cockaded woodpecker was second with 11 installations reporting it as onsite or contiguous. Ten installations reported the Indiana bat on or contiguous to them.

IMA Pacific Region installations have the most T&E species recorded onsite. Leading is Makua Military Reservation with 33 T&E species, followed by Schofield Barracks with 28, Kawaihoa Training Area with 27, and Pohakuloa Training Area with 18. A distant fifth is Camp Blanding (ARNG) with eight (8) followed by Fort Stewart (IMA SE) and Fort Hunter Liggett (IMA NW), each with six (6).

Proposed and Candidate Species

A total of 31 distinct Candidate species were identified from the 127 installations that reported having onsite or contiguous TEPC. No installations reported having proposed species. A total of 21 installations reported having Candidate species on or contiguous to them. Six (6) of these installations reported having only Candidate species on or contiguous to their installation. One (1) installation had only a single Candidate species contiguous to them to report. All the 31 distinct Candidate species identified on Army lands occurred within at least one (1) installation's boundary (Table 7).

Table 7. Installations reporting Candidate species for FY 2004.

	Onsite	Contiguous	Total
Number of Installations	20	1	20
Number of Distinct Species	31	0	31

What is a Candidate Species?

FWS Candidate Species:

First and foremost, candidate species are not afforded any protection under the ESA. However, these species are eligible for listing and could be proposed for listing or be emergency listed at any time. There are two ways in which a species becomes a candidate species. The first route is via petition and the second route is a FWS internal process.

1) Petition: A person and/or group submits a petition to the FWS to list a species under the ESA. Petitions are basically a factual argument justifying why a species should be listed. When the FWS

receives such a petition, they have 90-days to determine, and then publish in the Federal Register, whether the information in the petition and within their files present substantial scientific or commercial information indicating that listing the species may be warranted. There are two possible outcomes of a 90-day finding:

a) If the FWS determines that the information available does not warrant listing of the species, then the FWS takes no further action on the petition and the species is no longer considered for listing, at least at this time.

b) If the FWS determines that listing **may** be warranted, then the FWS will initiate a 12-month status review of the species to determine if proposing a rule to list the species **is** warranted. The FWS reviews all the available scientific and commercial information on the species and then after the 12-month period, publishes their findings in the Federal Register. There are three potential outcomes to a 12-month review, and they are:

- (i) Listing is not warranted,
- (ii) Listing is warranted, but precluded by higher listing priority actions (a candidate species is born), or
- (iii) Listing is warranted, and a rule to list the species is proposed.

A species becomes a candidate species if a “(ii)” finding is made.

2) FWS internal process: On 5 December 1996 (61 FR 64481), the FWS made a final decision to include as candidate species those species for which they had sufficient information on file on the biological vulnerability and threat(s) to support issuance of a proposed rule to list the species, but for which a proposed rule is precluded. This standard for making a species a candidate is identical to the standard for making a “warranted-but-precluded” 12-month finding on a petition to list.

Therefore, all candidate species are species in which the FWS has sufficient information on file to support a proposal to list as endangered or threatened, but in which issuance of a proposed rule is currently precluded by higher priority listing actions.

National Marine Fisheries Service (NMFS) Candidate Species

The process NMFS uses to classify a species as a candidate is virtually the same as FWS, but with one difference. If on a 90-day finding NMFS determines that a petition to list a species presents substantial scientific information indicating the petitioned action may be warranted, then they will classify the species as a candidate. Therefore, a positive 90-day finding, and not the 12-month finding as with FWS, is the criteria designating candidate status to a species.

In summary, Candidate species will remain as such until the FWS or NMFS, depending on who has jurisdiction over the species, either determines that listing is not warranted, proposes the species for listing, or emergency lists the species within its authority under section 4(b)(7) of the ESA. Once a species is proposed for listing, it is afforded some protection under the ESA.

Species at Risk

The DoD Legacy Program funded a cooperative FWS and DoD project to identify species at risk⁶ on military installations. NatureServe prepared the report and delivered it to DoD in 2002 (DoD 2002). In 2004, NatureServe submitted a revised report to DoD that provided more in-depth analyses of SAR within installations and in buffer areas surrounding installations (DoD 2004). Species identified in the report occur on or within a 2 kilometer buffer of a military site. The report is not inclusive of all Army installations. The report does not capture Army Reserve properties other than the Army Reserve installations that are a part of IMA or many of the Army National Guard sites. The report also does not,

⁶ Species at risk (SAR); species that are classified by NatureServe scientists as critically imperiled (G1 or T1) or imperiled (G2 or T2) on a global scale or Candidate species under the ESA (DoD 2002).

nor was it intended to, specifically address migratory birds of concern as referenced in Executive Order 13186 -- Responsibilities of Federal Agencies To Protect Migratory Birds, but some of these bird species are also identified as SAR. The 2004 report is a useful resource for identifying SAR that may be on or near DoD property. The 2004 report is not available on the internet in time for this publication, but the 2002 report can be accessed as the following web address:

https://www.denix.osd.mil/denix/Public/ES-Programs/Conservation/species_of_concern_DoD-USFWS.pdf.

According to the report, 523 SAR occur on DoD property, and of these, 251 occur on/near 72 different Army sites, with many on/near individual installations. A total of 46 SAR are recorded for Schofield Barracks Military Reservation (IMA Pacific), 36 for Makua Military Reservation (IMA Pacific), 18 for Fort Ord Military Reservation (BRAC), and 17 for Fort Hunter Liggett (IMA NW) and White Sands Missile Range, to name a few. The numbers of SAR per Region, ARNG, AMC, and BRAC installations are listed in Table 8.

Table 8. Number of MACOM/IMA/BRAC installations having Species at Risk, by category.

	IMA Northeast	IMA Northwest	IMA Southeast	IMA Southwest	IMA Pacific	Army National Guard	BRAC	AMC	TOTAL # Sp.
Amphibians			1	2					4
Birds		1		3	3		1		5
Clams		2				2			3
Crustaceans	2	2	2	1			2	1	8
Fish		2	4	1				1	8
Invertebrates	2	3	1	2	4	3	2	1	29
Mammals		1	2	4		3		1	4
Plants	2	6	10	9	9	3	5	3	155
Reptiles		2	6	2		4	3		10
Snails			1	3	2	1			25
									251
TOTAL# installations w/ SAR	5	9	11	10	12	12	8	5	72
TOTAL # of SAR	11	41	43	57	65	20	27	10	

Critical Habitat

The FWS and the NMFS have designated critical habitat for 474 species, 13 of those species have designations on 15 Army installations (Table 9). There is a total of 17 occurrences of critical habitat on Army installations and of these, five (5) of the designations are on unoccupied critical habitat, which means that the species is not known to occur within the area designated as critical habitat but the area contains those constituent elements essential to the conservation of the species.

What is Critical Habitat?

Section 3 of the Endangered Species Act (ESA) defines critical habitat as, "(i) the specific areas within the geographic area occupied by the species ... on which are found those physical or biological features (I) **essential to the conservation of the species** and (II) which may require special management considerations or protection; and (ii) specific areas outside the geographic area occupied by the species at the time it is listed ... upon a determination ... that such areas are essential for the conservation of the

species." "Conservation" means the use of all methods and procedures that are necessary to bring a listed species to the point at which listing under ESA is no longer necessary, or in other words, "recovery".

Federal agencies are to ensure that their actions do not result in the destruction or adverse modification of critical habitat, which would be an action that has "a direct or indirect alteration that appreciably diminishes the value of critical habitat for **both the survival AND recovery** of a listed species. Such alterations include, but are not limited to, alterations adversely modifying any of those physical or biological features that were the basis for determining the habitat to be critical." (50 CFR Part 402.02). The FWS' application of "destruction or adverse modification" has been identical to a jeopardy determination. With each classification having similar thresholds, the FWS and other Federal agencies regarded the designation of statutory critical habitat as providing little additional protection other than for unoccupied areas. Although, for unoccupied critical habitat, survival is not a factor, so by regulatory definition, it would almost be impossible to reach the "survival and recovery" threshold; therefore, there is no value of critical habitat on such lands other than the regulatory burden it places upon the Federal agency.

Recently, however, a few Federal and Circuit court rulings have basically redefined "destruction or adverse modification" to mean impacts on **either survival OR recovery**. The courts believe this is more in line with the statutory definition of critical habitat, which ties critical habitat to conservation (recovery) and not just survival. This new application of the ESA would clearly separate "jeopardy" and "destruction or adverse modification" with the latter now having a lower threshold. Application of this new definition would mean an action could result in the "destruction or adverse modification" of critical habitat without reaching the "jeopardy" threshold. An action proposed on unoccupied critical habitat could now be subject to the "destruction or adverse modification" threshold.

On 9 Dec 04, FWS issued a director's memorandum stating that FWS should no longer rely on the regulatory definition of "destruction or adverse modification" in their evaluation of Federal actions. Instead, FWS Regions are to use conservation of the species as their threshold.

The list of critical habitat occurrences on Army installations decreased by one (1) from what was recorded in FY 2003. Due to court order, FWS redesignated critical habitat for the Mexican spotted owl and Fort Huachuca was excluded from such designation based on their Integrated Natural Resources Management Plan (INRMP) (see next section).

Table 9. Critical habitat designated on Army installations, as of FY 2004.

MACOM/ Region	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
ARNG	Fort Ruger	E	Plant	<i>Cyperus trachysanthos</i>	Pu`uka`a	Onsite
ARNG	Santa Cruz Armory	T	Plant	<i>Holocarpha macradenia</i>	Santa Cruz tarplant	Onsite
ARNG	Shaktoolik Armory	T	Bird	<i>Somateria fischeri</i>	Spectacled eider	Contiguous
ARNG	Stebbins Armory	T	Bird	<i>Somateria fischeri</i>	Spectacled eider	Contiguous
ARNG	Unalakleet Armory	T	Bird	<i>Somateria fischeri</i>	Spectacled eider	Contiguous
BRAC	Fort Ord	T	Bird	<i>Charadrius alexandrinus nivosus</i>	Western snowy plover	Onsite

MACOM/ Region	Installation	Federal Status	Category	Scientific Name	Common Name	Species Onsite or Contiguous
BRAC	Fort Ord	T	Plant	<i>Chorizanthe pungens</i> var. <i>pungens</i>	Monterey spineflower	Onsite
BRAC	Fort Ord	E	Plant	<i>Lasthenia conjugens</i>	Contra Costa goldfields	Onsite
IMA NW	Fort Lewis	T	Bird	<i>Strix occidentalis caurina</i>	Northern spotted owl	Contiguous
IMA PAC	Kawailoa TA	E	Bird	<i>Chasiempis sandwichensis ibidis</i>	O'ahu 'elepaio	Contiguous
IMA PAC	Makua Military Reservation	E	Bird	<i>Chasiempis sandwichensis ibidis</i>	O'ahu 'elepaio	Onsite
IMA PAC	Pohakuloa TA	E	Bird	<i>Loxioides bailleui</i>	Palila	Onsite
IMA PAC	Schofield Barracks Military Reservation	E	Bird	<i>Chasiempis sandwichensis ibidus</i>	O'ahu 'elepaio	Onsite
IMA SW	Fort Huachuca	E	Plant	<i>Lilaeopsis schaffneriana var. recurva</i>	Huachuca water-umbel	Onsite
IMA SW	Fort Irwin	T	Reptile	<i>Gopherus agassizii</i>	Desert tortoise	Onsite
IMA SW	White Sands Missile Range	E	Plant	<i>Hedeoma todsenii</i>	Todsens pennyroyal	Onsite

Installations Excluded from Critical Habitat Designation Based on ESA 4(a)(3)(B) and/or 4(b)(2)

On 24 November 2003, the President signed the National Defense Authorization Act for FY 2004 (NDAA) (Public Law 108-136). Contained within this bill are a number of environmental provisions that impact the military. Specifically, Section 318 precludes the FWS and NMFS from designating critical habitat on any areas owned, controlled, or designated for use by the DoD, if such areas are subject to an INRMP that provides a benefit to the species subject to critical habitat designation (ESA 4(a)(3)(B)). The conference report states that congress expects the Secretary of the Interior to establish criteria in determining if an INRMP provides benefits to the species. The FWS has produced a draft of these criteria, which are undergoing an internal review. If the FWS/NMFS does not believe an INRMP provides a benefit to the species, then the applicable regulatory agency can designate critical habitat on the respective installation. The act also amends the ESA by requiring the FWS or NMFS to consider the impacts of critical habitat designation on national security. Therefore, the FWS or NMFS may preclude designation of critical habitat on a military reservation if they conclude, regardless of the status of an INRMP, that such a designation would have a significant impact on national security (ESA 4(b)(2)). However, neither FWS or NMFS can exclude an area as critical habitat solely based on 4(b)(2) if the exclusion would result in the extinction of the species concerned. Although, the ESA does not prevent FWS from excluding lands as critical habitat even if such exclusion would prevent the conservation of the species. Lastly, NDAA section 318 does not affect the prohibition on the taking of listed species or the requirements to consult and to not jeopardize the species.

Over the past year, a number of Army installations have been excluded from critical habitat designation based on these new amendments to the ESA. These exclusions were based on 4(a)(3)(B), but one common factor was that the Army installations provided essential information to the FWS that was

necessary for them to make their determination. Such proactive measures have proven to be very beneficial to Army installations.

Since passage of the NDAA, all of the Army installations that have been excluded from critical habitat designation were based on their INRMPs satisfying the requirements of ESA 4(a)(3)(B). To make the "benefit" determination of an INRMP, the FWS has been using the following criteria: (1) A current INRMP must be complete and provide a conservation benefit to the species; (2) the plan must provide assurances that the conservation management strategies will be implemented; and (3) the plan must provide assurances that the conservation management strategies will be effective, by providing for periodic monitoring and revisions as necessary. Table 10 lists the three installations that the FWS has excluded from critical habitat designation based on their INRMPs.

In FY 04, no Army installation was excluded from critical habitat designation based on ESA 4(b)(2). Several installations have been proposed for such exclusion.

Table 10. Installations excluded from critical habitat designation.

INSTALLATION	SPECIES	EXCLUSION	DATE
Fort Riley	Topeka shiner	4(a)(3)(B)	Jul 04
Fort Carson	Mexican spotted owl	4(a)(3)(B)	Aug 04
Fort Huachuca	Mexican spotted owl	4(a)(3)(B)	Aug 04

Consultations and Biological Opinions

Installations reported over 300 informal and 40 formal consultations with the USFWS/NMFS in FY 2004. The formal consultations involved over 85 species. Of the total formal consultations, there were no Jeopardy Biological Opinions reported.

Endangered Species Management Component (ESMC)

Each installation having a listed or proposed species (TEP) or critical habitat onsite is required by Army Policy to prepare an ESMC for their INRMP. ESMC's are not required for contiguous TEP or critical habitat. Army policy also encourages installations with Candidate species to prepare an ESMC. The exact figure for completed or partially completed ESMCs is not available, but a majority of the 99 installations with TEP or critical habitat onsite have prepared or are preparing ESMCs.

Planning Level Surveys

HQDA requires every installation to conduct 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 128 installations that reported TEPC in FY 04, 87 reported that they have a completed T&E PLS, 19 installations reported that they do not require a T&E PLS and the remaining installations did not provide the status of their 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, in which the expenditures can be identified for a specific species. Non-reportable expenditures are monies spent on multi-species projects, Proposed Threatened/Endangered, Candidate, State-listed, and any other species of concern. These expenses are typically incurred to prevent listing or proactively prepare

an installation, with respect to the ESA, if such a species is listed. Table 11 provides a summary of Army reportable expenses from FY1999-FY2004.

In reportable expenditures, a total of \$21,271.4K was spent for onsite T&E species in FY 2004. This figure includes funds spent on T&E research and development projects. By category (Table 12), expenditures for onsite T&E species in FY 2004 include \$394.3K for amphibians, \$50K for arachnids, \$10,552.7K for birds, \$204.7K for crustaceans, \$121.0K for fish, \$744.2K for insects, \$2,111.2K for mammals, \$4,512.7K for plants, \$2,057.8K for reptiles, and \$523.4K for snails. Expenditures for specific Candidate species were reported as approximately \$57K in FY 2004.

Approximately \$1,995.0K was spent by ARNG and \$47.8K was spent by AMC installations on reportable species in FY 2004. Under the IMA in FY 2004, the NE Region spent \$351.6K, NW Region spent \$1,281.3K, Pacific Region spent \$4,288.4K, SE Region spent \$5,437.6K, SW Region spent \$5,695.4K, and the Army Reserves spent \$28.7K on reportable species. No data were available for BRAC installations.

An additional \$5,267.9K was spent in non-reportable expenditures in FY 2004. These expenditures are not an inclusive list as other unreported projects may include money for TEPC species management.

Table 11. Reportable expenditures (\$K) over the last 5 years (FY 1999-FY 2004).

Year (FY)	2004	2003	2002	2001	2000	1999
Reportable Expenditures (\$K)	\$21,271.4	\$21,274.8	\$18,369.3	\$15,533.6	\$17,568.6	\$12,084.5

Table 12. FY 2003 & FY 2004 comparison of reportable expenditures (\$K) by category.

FY 2003 Expenditures (\$K)		FY 2004 Expenditures (\$K)	
Mammals	\$1,895.4	Mammals	\$2,111.2
Birds	\$9,074.2	Birds	\$10,552.7
Reptiles	\$2,586.8	Reptiles	\$2,057.8
Amphibians	\$111.9	Amphibians	\$394.3
Fish	\$226.3	Fish	\$121.0
Arachnids	\$200.0	Arachnids	\$50.0
Insects	\$657.4	Insects	\$744.2
Snails	\$652.9	Snails	\$523.4
Crustaceans	\$232.0	Crustaceans	\$204.7
Plants	\$5,638.0	Plants	\$4,512.7

Consistent Reporting

The Army is frequently asked for information on T&E species. However, the intricacy of the data results in multiple answers to the question, "How many T&E species are on Army lands?" For consistency, the number provided, unless other data are specifically requested, will be the number of different T&E species recorded as onsite⁷, not contiguous to, Army installations. A Threatened or Endangered species may be recorded on more than one installation, but it is only counted once. Species that have more than one status (i.e., threatened in one part of its range and endangered in another) are recorded as one species. The same goes for species, such as the desert tortoise, that has threatened status on one installation and threatened due to similarity of appearance on another installation. Table 13 shows these

⁷ Proposed species are not included in this number, even though for management purposes the Army considers them the same as T&E species.

numbers for FY 1999 through FY 2004. In the table, the number of installations reflects the number of distinct installations that have recorded one or more T&E species onsite.

Table 13. Number of T&E species by fiscal year.

	Fiscal Year	# of species	# of installations
Onsite	1999	153	95
	2000	170	94
	2001	172	99
	2002	170 ^a	92 ^a
	2003	175	95
	2004	177	100

^a Figures for FY 2002 are not official.

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	insects
arachnids	mammals
birds	plants
crustaceans	reptiles
clams	snails
fish	

Constituent Elements – Physical and biological features of designated or proposed critical habitat essential to the conservation of the species, including, but not limited to: (1) space for individual and population growth, and for normal behavior; (2) food, water, air, light, minerals, or other nutritional or physiological requirements; (3) cover or shelter; (4) sites for breeding, reproduction, rearing of offspring, germination, or seed dispersal; and (5) habitats that are protected from disturbance or are representative of the historic geographic and ecological distributions of a species.

Consultation – The process in which each Federal agency consults with FWS/NMFS to insure that any action they authorize, fund, or carry out is not likely to **jeopardize** the continued existence of a listed species or result in the destruction or **adverse modification** of designated critical habitat. In fulfilling these requirements, each agency is to use the best scientific and commercial data available. Consultation can be conducted as follows:

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 that may be requested by a 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.

Critical Habitat – ESA Section 3(5)(A) “(i) the specific areas within the geographical area occupied by the [listed] species, at the time it is listed in accordance with the provisions of section 4 of this Act, on which are found those physical or biological features (I) essential to the conservation of the species and (II) which may require special management considerations or protection; and (ii) specific areas outside the geographical area occupied by the species at the time it is listed in accordance with the provisions of section 4 of this Act, upon a determination by the Secretary that such areas are essential for the conservation of the species.”

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.

ESMC – Endangered Species Management Component. A component of the INRMP that is developed in accordance with Army Regulation (AR) 200-3, Chapter 11, for the management of listed or Proposed species or critical habitat. Previously referred to as the Endangered Species Management Plan.

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 T&E 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

T(S/A) – Threatened due to Similarity of Appearance

PE – Federally Proposed as Endangered (none reported this FY)

PT – Federally Proposed as Threatened (none reported this FY)

C – Candidate for Federal Listing

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

G# - Global conservation status ranks of species, assigned by NatureServe scientists:

G1 – Critically imperiled globally because of extreme rarity or because of some factor(s) making it especially vulnerable to extinction. Typically 5 or fewer occurrences or very few remaining individuals (<1,000).

G2 – Imperiled globally because of rarity or because of some factor(s) making it very vulnerable to extinction or elimination. Typically 6 to 20 occurrences or few remaining individuals (1,000 to 3,000).

Installation – The term installation includes active military installations, state ARNG offices, ARNG 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 ARNG state offices, for example, reported on an individual basis, while others reported at the state level.

Installation Management Agency (IMA) - Installations, excluding the National Guard installations, are divided into 5 U.S. regions; Northeast, Northwest, Southeast, Southwest, and Pacific Regions. IMA Regions are responsible for supporting installation base operations. The Army Reserve base-operations is also under IMA.

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.

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 TEPC include, at a minimum, a map showing the kinds and known distribution of TEPC on the installation.

Special Installations - Installations with special funding requirements. These installations are not part of IMA, they are part of the MACOM Army Materiel Command or others (Table 14).

Table 14. Special Installations

Installation	MACOM	Installation	MACOM
Anniston Army Depot (AD)	AMC	McAlester AAP	AMC
Blue Grass AD	AMC	Milan AAP	AMC
Concord	MTMC	Mississippi AAP	AMC
Corpus Christi AD	AMC	Newport Chemical Depot	AMC
Crane Ammunition Activity	AMC	Pine Bluff Arsenal	AMC
Deseret Chemical Depot	AMC	Pueblo Chemical Depot	AMC
Fort Detrick	MEDCOM	Radford AAP	AMC
Fort Greely	SMDC	Red River AD	AMC
Hawthorne AD	AMC	Riverbank AAP	AMC
Holston Army Ammunition Plant (AAP)	AMC	Rock Island Arsenal	AMC
Iowa AAP	AMC	Scranton AAP	AMC
Kansas AAP	AMC	Sierra AD	AMC
Kwajalein	SMDC	Sunny Point	MTMC
Lake City AAP	AMC	Tobyhanna AD	AMC
Letterkenny AD	AMC	Tooele AD	AMC
Lima Army Tank	AMC	Umatilla Chemical Depot	AMC
Lone Star AAP	AMC	Walter Reed	MEDCOM
Louisiana AAP	AMC	Watervliet Arsenal	AMC

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 T&E for reporting purposes.

Species at Risk (SAR) – Species that are Candidates under the ESA and/or are considered to be critically imperiled (global rank of G1 or T1) or imperiled (global rank of G2 or T2) and have not been federally listed (DoD 2002; DoD 2004).

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 # – The status of infraspecific taxa (subspecies or varieties) following a species' global rank:

T1 – Subspecies or variety critically imperiled globally because of extreme rarity or because of some factor(s) making it especially vulnerable to extinction.

T2 – Subspecies or variety imperiled globally because of rarity or because of some factor(s) making it very vulnerable to extinction or elimination.

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.

TEPC – Threatened and Endangered Species. The term includes all federally Threatened, Endangered, Proposed, and Candidate species on Army lands. The acronym was changed from “TES” to the current form to avoid confusion because many Army and DoD documents have used the acronym “TES” to represent Threatened and Endangered Species.

6. Acronyms

AAP	Army Ammunition Plant
AD	Army Depot
AMC	US Army Materiel Command
ARNG	Army National Guard
ATEC	Army Test and Evaluation Command
BRAC	Base Realignment and Closure
CFR	Code of Federal Regulations
CH	critical habitat
DoD	Department of Defense
ESA	Endangered Species Act
EQR	Environmental Quality Report
ESMC	Endangered Species Management Component
FORSCOM	Forces Command
FR	Federal Register
FWS	U.S. Fish and Wildlife Service
FY	fiscal year
G1	global rank of critically imperiled
G2	global rank of imperiled
HQDA	Headquarters, Department of Army
IMA	Installation Management Agency
IMA NE	Installation Management Agency, Northeast Region
IMA NW	Installation Management Agency, Northwest Region
IMA Pacific	Installation Management Agency, Pacific Region
IMA SE	Installation Management Agency, Southeast Region
IMA SW	Installation Management Agency, Southwest Region
INRMP	Installation Natural Resources Management Plan
MACOM	Major Command
MDW	Military District of Washington
MEDCOM	Medical Command
MTMC	US Army Military Traffic Management Command
NDAA	National Defense Authorization Act
NMFS	National Oceanic and Atmospheric Administration - National Marine Fisheries Service
OMS	Organizational Maintenance Shop
PLS	Planning Level Survey
QA/QC	quality assurance/quality control
RRC	Regional Readiness Command
SAR	species at risk
SERDP	Strategic Environmental Research & Development Program
SMDC	US Army Space & Missile Defense Command
T1	subspecies or varieties global rank of critically imperiled
T2	subspecies or varieties global rank of imperiled
T&E	Threatened and Endangered species
T(S/A)	Threatened due to similarity of appearance
TA	training area
TEP	Threatened, Endangered and Proposed species
TEPC	Threatened, Endangered, Proposed, and Candidate species
TRADOC	Training and Doctrine Command
TS	Training Site
USACE	U.S. Army Corps of Engineers
USAEC	US Army Environmental Center
USARC	U.S. Army Reserve Command
USARPAC	U.S. Army Pacific Command
USARSO	U.S. Army South Command

USC	United States Code
USMA	U.S. Military Academy
WETS	Weekend Training Site
UTES	Unit Training Equipment Site

7. References

Army Environmental Quality Report

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Appendix A: Installations & the TEPC recorded as Onsite or Contiguous

IMA Region/ Installation MACOM	State	FWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation
AMC Anniston Army Depot	AL	4	<i>Xyris tennesseensis</i>	Tennessee yellow-eyed grass	Onsite	E	Plant	No
AMC Blue Grass Army Depot	KY	4	<i>Trifolium stoloniferum</i>	Running buffalo clover	Onsite	E	Plant	No
AMC Deseret Chemical Depot	UT	6	<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
AMC Hawthorne AAP	NV	1	<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
			<i>Oncorhynchus clarki henshawi</i>	Lahontan cutthroat trout	Contiguous	T	Fish	No
AMC Holston AAP	TN	4	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Myotis grisescens</i>	Gray bat	Onsite	E	Mammal	No
AMC Iowa AAP	IA	3	<i>Myotis sodalis</i>	Indiana bat	Onsite	E	Mammal	No
AMC Lonestar AAP	TX	2	<i>Alligator mississippiensis</i>	American alligator	Onsite	T(S/A)	Reptile	No
AMC McAlester AAP	OK	2	<i>Nicrophorus americanus</i>	American burying beetle	Onsite	E	Insect	No
AMC Newport Chemical Activity	IN	3	<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
			<i>Myotis sodalis</i>	Indiana bat	Onsite	E	Mammal	No
AMC Pine Bluff Arsenal	AR	4	<i>Alligator mississippiensis</i>	American alligator	Onsite	T(S/A)	Reptile	No
AMC Pueblo Depot Activity	CO	6	<i>Cynomys ludovicianus</i>	Black-tailed prairie dog	Onsite	C	Mammal	No
AMC Riverbank AAP	CA	1	<i>Desmocerus californicus dimorphus</i>	Valley elderberry longhorn beetle	Contiguous	E	Insect	No
AMC Rock Island Arsenal	IL	3	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
AMC Sierra Army Depot	CA	1	<i>Pseudocopaeodes eunus obscurus</i>	Carson wandering skipper	Contiguous	E	Insect	No
ARNG Atterbury TS	IN	3	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Myotis sodalis</i>	Indiana bat	Onsite	E	Mammal	No
ARNG BG Thomas B. Baker TS (formerly Lil Aaron Strauss)	MD	5	<i>Ptilimnium nodosum</i>	Harperella	Onsite	E	Plant	No
ARNG Camp Ashland MTA/OMS 5	NE	6	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
ARNG Camp Beauregard	LA	4	<i>Picoides borealis</i>	Red-cockaded woodpecker	Contiguous	E	Bird	No
ARNG Camp Blanding	FL	4	<i>Alligator mississippiensis</i>	American alligator	Onsite	T(S/A)	Reptile	No
			<i>Aphelocoma coerulescens</i>	Florida scrub jay	Onsite	T	Bird	No
			<i>Drymarchon corais couperi</i>	Eastern indigo snake	Onsite	T	Reptile	No
			<i>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

IMA Region/ Installation MACOM	State	FWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation
ARNG Camp Blanding (cont'd)	FL	4	<i>Puma concolor coryi</i>	Florida panther	Onsite	E	Mammal	No
			<i>Rhododendron chapmanii</i>	Chapman's rhododendron	Onsite	E	Plant	No
ARNG Camp Bowie	TX	2	<i>Vireo atricapillus</i>	Black-capped vireo	Onsite	E	Bird	No
ARNG Camp Crowder	MO	3	<i>Amblyopsis rosae</i>	Ozark cavefish	Contiguous	T	Fish	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
ARNG Camp Grafton	ND	6	<i>Charadrius melodus</i>	Piping plover	Onsite	T	Bird	No
ARNG Camp Grayling	MI	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	OK	2	<i>Nicrophorus americanus</i>	American burying beetle	Onsite	E	Insect	No
ARNG Camp Guernsey	WY	6	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
ARNG Camp J.T. Robinson	AR	2	<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
ARNG Camp Maxey	TX	2	<i>Nicrophorus americanus</i>	American burying beetle	Onsite	E	Insect	No
ARNG Camp Murray	WA	1	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
ARNG Camp Navajo	AZ	2	<i>Strix occidentalis lucida</i>	Mexican spotted owl	Onsite	T	Bird	Yes
ARNG Camp Perry	OH	3	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
ARNG Camp Rilea	OR	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
			<i>Speyeria zerene hippolyta</i>	Oregon silverspot butterfly	Onsite	T	Insect	No
<i>Strix occidentalis caurina</i>	Northern spotted owl	Contiguous	T	Bird	No			
ARNG Camp Ripley	MN	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	CA	1	<i>Branchinecta lynchi</i>	Vernal pool fairy shrimp	Onsite	T	Crustacean	No
			<i>Chlorogalum 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

IMA Region/ Installation MACOM	State	FWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation
ARNG Camp Roberts TS (cont'd)	CA	1	<i>Oncorhynchus mykiss</i>	Steelhead	Onsite	T	Fish	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
ARNG Camp San Luis Obispo	CA	1	<i>Cirsium fontinale var. obispoense</i>	Chorro Creek bog thistle	Onsite	E	Plant	No
			<i>Gymnogyps californianus</i>	California condor	Contiguous	E	Bird	No
			<i>Helminthoglypta walkeriana</i>	Morro shoulderband snail	Onsite	E	Snail	No
			<i>Oncorhynchus mykiss</i>	Steelhead	Onsite	T	Fish	No
			<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	MS	4	<i>Alligator mississippiensis</i>	American alligator	Onsite	T(S/A)	Reptile	No
			<i>Fallicambarus gordonii</i>	Camp Shelby burrowing crayfish	Onsite	C	Crustacean	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	Onsite	C	Reptile	No
ARNG Camp Smith TS	NY	5	<i>Acipenser brevirostrum</i>	Shortnose sturgeon	Contiguous	E	Fish	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
ARNG Catoosa Range/TS	TN	4	<i>Scutellaria montana</i>	Large-flowered skullcap	Onsite	T	Plant	No
ARNG Cedar City Armory UT OMS 10C	UT	6	<i>Cynomys parvidens</i>	Utah prairie dog	Contiguous	T	Mammal	No
ARNG Chevak Armory	AK	7	<i>Polysticta stelleri</i>	Steller's eider	Contiguous	T	Bird	No
ARNG Clark County TA	NV	1	<i>Gopherus agassizii</i>	Desert tortoise	Contiguous	T	Reptile	No
ARNG Corvalis or Camp Adair	OR	1	<i>Lupinus sulphureus var. 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 Elim Armory	AK	7	<i>Somateria fischeri</i>	Spectacled eider	Contiguous	T	Bird	No
ARNG Florence Military Reservation	AZ	2	<i>Glaucidium brasilianum cactorum</i>	Cactus ferruginous pygmy-owl	Contiguous	E	Bird	No
			<i>Gopherus agassizii</i>	Desert tortoise	Onsite	T(S/A)	Reptile	No
ARNG Fort Chaffee	AR	4	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Nicrophorus americanus</i>	American burying beetle	Onsite	E	Insect	No

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ARNG Fort Harrison	MT	6	<i>Cynomys ludovicianus</i>	Black-tailed prairie dog	Onsite	C	Mammal	No
ARNG Fort McClellan	AL	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	VA	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	HI	1	<i>Anas wyvilliana</i>	Duck, Hawaiian (=koloa)	Onsite	E	Bird	No
			<i>Cyperus trachysanthos</i>	Pu`uka`a	Onsite	E	Plant	Yes
			<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	Onsite	E	Plant	No
			<i>Spermolepis hawaiiensis</i>	None	Onsite	E	Plant	No
ARNG Fredericksburg Armory	TX	2	<i>Dendroica chrysoparia</i>	Golden-cheeked warbler	Onsite	E	Bird	No
ARNG Garrison TS	ND	6	<i>Charadrius melodus</i>	Piping plover	Contiguous	T	Bird	No
ARNG Hastings TS/UTES 1	NE	6	<i>Grus americana</i>	Whooping crane	Contiguous	E	Bird	No
ARNG Hilo (Keaukaha Military Reserv)	HI	1	<i>Buteo solitarius</i>	Hawaiian hawk	Onsite	E	Bird	No
			<i>Lasiurus cinereus semotus</i>	Hawaiian hoary bat	Onsite	E	Mammal	No
ARNG Ike Skeleton TS	MO	3	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Sterna antillarum</i>	Least tern	Contiguous	E	Bird	No
ARNG Kekaha WETS	HI	1	<i>Himantopus mexicanus knudseni</i>	Hawaiian stilt	Onsite	E	Bird	No
			<i>Panicum niuhauense</i>	Lau`ehu	Onsite	E	Plant	No
ARNG Kwigillingok Armory	AK	7	<i>Polysticta stelleri</i>	Steller's eider	Contiguous	T	Bird	No
ARNG Leesburg TS	SC	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
ARNG Macon TS	MO	3	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Myotis sodalis</i>	Indiana bat	Contiguous	E	Mammal	No
ARNG NH State Military Reservation	NH	5	<i>Lycaeides melissa samuelis</i>	Karner blue butterfly	Contiguous	E	Insect	No

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ARNG NHNG TS	NH	5	<i>Isotria medeoloides</i>	Small whorled pogonia	Contiguous	T	Plant	No
ARNG Salina Smokey Hil TA	KS	6	<i>Cynomys ludovicianus</i>	Black-tailed prairie dog	Contiguous	C	Mammal	No
ARNG Santa Cruz Armory	CA	1	<i>Holocarpha macradenia</i>	Santa Cruz tarplant	Onsite	T	Plant	Yes
ARNG Sea Girt TS	NJ	5	<i>Amaranthus pumilus</i>	Seabeach amaranth	Onsite	T	Plant	No
			<i>Charadrius melodus</i>	Piping plover	Onsite	T	Bird	No
ARNG Shaktoolik Armory	AK	7	<i>Somateria fischeri</i>	Spectacled eider	Contiguous	T	Bird	Yes
ARNG Sheridan LTA	WY	6	<i>Cynomys ludovicianus</i>	Black-tailed prairie dog	Onsite	C	Mammal	No
ARNG St. George UT OMS 10B	UT	6	<i>Arctomecon humilis</i>	Dwarf bear-poppy	Onsite	E	Plant	No
ARNG St. Michael Armory	AK	7	<i>Somateria fischeri</i>	Spectacled eider	Contiguous	T	Bird	No
ARNG Stead TS	NV	1	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Gopherus agassizii</i>	Desert tortoise	Onsite	T	Reptile	No
ARNG Stebbins Armory	AK	7	<i>Somateria fischeri</i>	Spectacled eider	Contiguous	T	Bird	Yes
ARNG Truman Reservoir TS	MO	3	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
ARNG Tullahoma TS	TN	4	<i>Helianthus eggertii</i>	Eggert's sunflower	Onsite	T	Plant	No
			<i>Myotis grisescens</i>	Gray bat	Contiguous	E	Mammal	No
			<i>Myotis sodalis</i>	Indiana bat	Contiguous	E	Mammal	No
ARNG Ukumehame Firing Range	HI	1	<i>Anas wyvilliana</i>	Duck, Hawaiian (=koloa)	Onsite	E	Bird	No
			<i>Branta sandvicensis</i>	Hawaiian goose	Onsite	E	Bird	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>Himantopus mexicanus knudseni</i>	Hawaiian stilt	Onsite	E	Bird	No
ARNG Unalakleet Armory	AK	7	<i>Somateria fischeri</i>	Spectacled eider	Contiguous	T	Bird	Yes
BRAC Fort Ord	CA	1	<i>Charadrius alexandrinus nivosus</i>	Western snowy plover	Onsite	T	Bird	Yes
			<i>Chorizanthe pungens var. pungens</i>	Monterey spineflower	Onsite	T	Plant	Yes
			<i>Euphilotes enoptes smithi</i>	Smith's blue butterfly	Onsite	E	Insect	No
			<i>Gilia tenuiflora ssp. arenaria</i>	Monterey gilia	Onsite	E	Plant	No
			<i>Lasthenia conjugens</i>	Contra Costa goldfields	Onsite	E	Plant	Yes
			<i>Rana aurora draytonii</i>	California red-legged frog	Contiguous	T	Amphibian	No
BRAC Indiana AAP	IN	3	<i>Myotis grisescens</i>	Gray bat	Onsite	E	Mammal	No

IMA Region/ Installation MACOM	State	FWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation
BRAC Indiana AAP (cont'd)	IN	3	<i>Myotis sodalis</i>	Indiana bat	Onsite	E	Mammal	No
BRAC Jefferson Proving Ground	IN	3	<i>Myotis sodalis</i>	Indiana bat	Onsite	E	Mammal	No
BRAC Longhorn AAP	TX	2	<i>Alligator mississippiensis</i>	American alligator	Onsite	T(S/A)	Reptile	No
BRAC Rocky Mountain Arsenal	CO	6	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Cynomys ludovicianus</i>	Black-tailed prairie dog	Onsite	C	Mammal	No
BRAC Savanna Army Depot	IL	3	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Lampsilis higginsii</i>	Higgins Eye pearlymussel	Onsite	E	Clam	No
NE Aberdeen Proving Ground	MD	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
NE Adelphi Army Research Laboratory	MD	5	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
NE Fort A.P. Hill	VA	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
NE Fort Belvoir	VA	5	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Isotria medeoloides</i>	Small whorled pogonia	Contiguous	T	Plant	No
NE Fort Dix	NJ	5	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
NE Fort Eustis	VA	5	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
NE Picatinny Arsenal	NJ	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
NE USA CASCOM & Fort Lee	VA	5	<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
NE West Point Military Reservation	NY	5	<i>Acipenser brevirostrum</i>	Shortnose sturgeon	Onsite	E	Fish	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
NW Dugway Proving Ground	UT	6	<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
NW Fort Carson	CO	6	<i>Cynomys ludovicianus</i>	Black-tailed prairie dog	Onsite	C	Mammal	No
			<i>Etheostoma cragini</i>	Arkansas darter	Onsite	C	Fish	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No

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NW Fort Carson (cont'd)	CO	6	<i>Oncorhynchus clarki stomias</i>	Greenback cutthroat trout	Onsite	T	Fish	No
			<i>Spiranthes diluvialis</i>	Ute ladies'-tresses	Contiguous	T	Plant	No
			<i>Strix occidentalis lucida</i>	Mexican spotted owl	Onsite	T	Bird	No
			<i>Zapus hudsonius preblei</i>	Preble's meadow jumping mouse	Contiguous	T	Mammal	No
NW Fort Hunter Liggett	CA	1	<i>Ambystoma californiense</i>	California tiger salamander	Onsite	T	Amphibian	No
			<i>Branchinecta lynchi</i>	Vernal pool fairy shrimp	Onsite	T	Crustacean	No
			<i>Bufo californicus</i>	Arroyo toad	Onsite	E	Amphibian	No
			<i>Chlorogalum 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>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	Contiguous	E	Mammal	No
NW Fort Leavenworth	KS	6	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
NW Fort Leonard Wood	MO	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
NW Fort Lewis	WA	1	<i>Brachyramphus marmoratus marmoratus</i>	Marbled murrelet	Contiguous	T	Bird	No
			<i>Eremophila alpestris strigata</i>	Streaked horned lark	Onsite	C	Bird	No
			<i>Euphydryas editha taylori</i>	Taylor's checkerspot butterfly	Onsite	C	Insect	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Howellia aquatilis</i>	Water howellia	Onsite	T	Plant	No
			<i>Oncorhynchus tshawytscha</i>	Chinook Salmon	Onsite	E	Fish	No
			<i>Polites mardon</i>	Mardon skipper	Onsite	C	Insect	No
			<i>Salvelinus confluentus</i>	Bull Trout	Onsite	T	Fish	No
			<i>Strix occidentalis caurina</i>	Northern spotted owl	Contiguous	T	Bird	Yes
			<i>Thomomys mazama</i>	Mazama pocket gopher	Onsite	C	Mammal	No
NW Fort McCoy	WI	3	<i>Canis lupus</i>	Gray wolf	Onsite	T	Mammal	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No

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NW Fort McCoy (cont'd)	WI	3	<i>Lycaeides melissa samuelis</i>	Karner blue butterfly	Onsite	E	Insect	No
NW Fort Riley	KS	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
NW Parks RFTA	CA	1	<i>Ambystoma californiense</i>	California tiger salamander	Onsite	T	Amphibian	No
			<i>Rana aurora draytonii</i>	California red-legged frog	Onsite	T	Amphibian	No
			<i>Vulpes macrotis mutica</i>	San Joaquin kit fox	Contiguous	E	Mammal	No
NW Yakima Training Center	WA	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	T	Fish	No
			<i>Oncorhynchus tshawytscha</i>	Chinook Salmon	Onsite	E	Fish	No
			<i>Salvelinus confluentus</i>	Bull Trout	Contiguous	T	Fish	No
PAC Dillingham Military Reservation	HI	1	<i>Lepidium arbuscula</i>	`Anaunau	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
PAC Kahuku TA	HI	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
PAC Kawaihoa TA	HI	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
			<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

IMA Region/ Installation MACOM	State	FWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation	
PAC	Kawailoa TA (cont'd)	HI	1	<i>Chamaesyce rockii</i>	ʻAkoko	Onsite	E	Plant	No
				<i>Chasiempis sandwichensis ibidis</i>	O'ahu 'elepaio	Contiguous	E	Bird	Yes
				<i>Christella boydiae</i>	None	Onsite	C	Plant	No
				<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>Lycopodium nutans</i>	Wawae`iole	Onsite	E	Plant	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>Phyllostegia hirsuta</i>	None	Onsite	E	Plant	No
				<i>Platydesma cornuta cornuta</i>	None	Onsite	C	Plant	No
				<i>Psychotria hexandra oahuensis</i>	Kopiko	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>	ʻOhe`ohe	Onsite	E	Plant	No
				<i>Viola oahuensis</i>	None	Onsite	E	Plant	No
				<i>Zanthoxylum oahuense</i>	A`e	Onsite	C	Plant	No
PAC	Makua Military Reservation	HI	1	<i>Achatinella mustelina</i>	Pupu kuahiwi	Onsite	E	Snail	No
				<i>Alectryon macrococcus</i>	Mahoe	Onsite	E	Plant	No

IMA Region/ Installation MACOM	State	FWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation
PAC	Makua Military Reservation (cont'd)	HI	1	<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> <i>var. kaenana</i>	`Akoko	Onsite	E Plant	No
				<i>Chasiempis sandwichensis</i> <i>ibidis</i>	O'ahu '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 haeleeleana</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 brackenridgei</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
				<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>	None	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</i> <i>decurrens</i>	None	Onsite	C Plant	No
				<i>Pleomele forbesii</i>	Hala pepe	Onsite	C Plant	No
				<i>Pritchardia kaalae</i>	Lo'ulu	Onsite	E Plant	No
				<i>Pteralyxia macrocarpa</i>	Kaulu	Onsite	C Plant	No

IMA Region/ Installation MACOM	State	FWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation
PAC Makua Military Reservation (cont'd)	HI	1	<i>Sanicula mariversa</i>	None	Onsite	E	Plant	No
			<i>Schiedea hookeri</i>	None	Onsite	E	Plant	No
			<i>Schiedea nuttallii</i>	None	Onsite	E	Plant	No
			<i>Silene lanceolata</i>	None	Onsite	E	Plant	No
			<i>Spermolepis hawaiiensis</i>	None	Onsite	E	Plant	No
			<i>Tetramolopium filiforme</i>	None	Onsite	E	Plant	No
			<i>Viola chamissoniana ssp. chamissoniana</i>	Pamakani	Onsite	E	Plant	No
PAC Pohakuloa TA	HI	1	<i>Asplenium fragile var. insulare</i>	None	Onsite	E	Plant	No
			<i>Branta sandvicensis</i>	Hawaiian goose	Onsite	E	Bird	No
			<i>Buteo solitarius</i>	Hawaiian hawk	Onsite	E	Bird	No
			<i>Festuca hawaiiensis</i>	None	Onsite	C	Plant	No
			<i>Haplostachys haplostachya</i>	Honohono	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
			<i>Lasiurus cinereus semotus</i>	Hawaiian hoary bat	Onsite	E	Mammal	No
			<i>Loxioides bailleui</i>	Palila	Onsite	E	Bird	Yes
			<i>Neraudia ovata</i>	None	Onsite	E	Plant	No
			<i>Portulaca sclerocarpa</i>	Po`e	Onsite	E	Plant	No
			<i>Pterodroma phaeopygia sandwichensis</i>	Hawaiian dark-rumped petrel	Onsite	E	Bird	No
			<i>Silene hawaiiensis</i>	None	Onsite	T	Plant	No
			<i>Silene lanceolata</i>	None	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 var. 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			
PAC Schofield Barracks Military Reservation	HI	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

IMA Region/ Installation MACOM	State	FWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation	
PAC	Schofield Barracks Military Reservation (cont'd)	HI	1	<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 ibidis</i>	O'ahu 'elepaio	Onsite	E	Bird	Yes
				<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
				<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>Isodendron 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 ssp. koolauensis</i>	None	Onsite	E	Plant	No
				<i>Lobelia oahuensis</i>	None	Onsite	E	Plant	No
				<i>Lycopodium nutans</i>	Wawae`iole	Onsite	E	Plant	No
				<i>Nothoctrum latifolium</i>	`Aiea	Onsite	C	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 decurrens</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

IMA Region/ Installation MACOM	State	FWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation
PAC Schofield Barracks Military Reservation (cont'd)	HI	1	<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
PAC Tripler Army Med Center	HI	1	<i>Megalagrion xanthomelas</i>	Orangeblack Hawaiian damselfly	Onsite	C	Insect	No
SE Fort Benning	GA	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
SE Fort Bragg	NC	4	<i>Lysimachia asperulaefolia</i>	Rough-leaved loosestrife	Onsite	E	Plant	No
			<i>Neonympha mitchellii francisci</i>	Saint Francis' satyr butterfly	Onsite	E	Insect	No
			<i>Picoides borealis</i>	Red-cockaded woodpecker	Onsite	E	Bird	No
			<i>Rhus michauxii</i>	Michaux's sumac	Onsite	E	Plant	No
			<i>Schwalbea americana</i>	American chaffseed	Onsite	E	Plant	No
SE Fort Buchanan	PR	4	<i>Epicrates inornatus</i>	Puerto Rican boa	Onsite	E	Reptile	No
			<i>Ottoschulzia rhodoxylon</i>	Palo de rosa	Onsite	E	Plant	No
SE Fort Campbell	KY	4	<i>Myotis grisescens</i>	Gray bat	Onsite	E	Mammal	No
			<i>Myotis sodalis</i>	Indiana bat	Onsite	E	Mammal	No
SE Fort Gordon	GA	4	<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
			<i>Mycteria americana</i>	Wood stork	Contiguous	E	Bird	No
			<i>Picoides borealis</i>	Red-cockaded woodpecker	Onsite	E	Bird	No
SE Fort Jackson	SC	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
SE Fort Knox	KY	4	<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

IMA Region/ Installation MACOM	State	FWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation
SE Fort Rucker	AL	4	<i>Alligator mississippiensis</i>	American alligator	Onsite	T(S/A)	Reptile	No
SE Fort Stewart	GA	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
SE Military Ocean Terminal-Sunny Point	NC	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	Onsite	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
SE Redstone Arsenal	AL	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	Crustacean	No
SW Fort Bliss	TX	2	<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>Echinocereus fendleri</i> var. <i>kuenzleri</i>	Cactus, Kuenzler hedgehog	Onsite	E	Plant	No
			<i>Falco femoralis septentrionalis</i>	Northern aplomado falcon	Onsite	E	Bird	No

IMA Region/ Installation MACOM	State	FWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation
SW Fort Bliss (cont'd)	TX	2	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
SW Fort Hood	TX	2	<i>Dendroica chrysoparia</i>	Golden-cheeked warbler	Onsite	E	Bird	No
			<i>Grus americana</i>	Whooping crane	Onsite	E	Bird	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Vireo atricapillus</i>	Black-capped vireo	Onsite	E	Bird	No
SW Fort Huachuca	AZ	2	<i>Ambystoma tigrinum stebbinsi</i>	Sonoran tiger salamander	Onsite	E	Amphibian	No
			<i>Coccyzus americanus</i>	Yellow-billed cuckoo	Onsite	C	Bird	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 yerbabuenae</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	T	Amphibian	No
			<i>Strix occidentalis lucida</i>	Mexican spotted owl	Onsite	T	Bird	No
			<i>Tiaroga cobitis</i>	Loach minnow	Contiguous	T	Fish	No
SW Fort Irwin	CA	1	<i>Astragalus jaegerianus</i>	Lane Mountain milk-vetch	Onsite	E	Plant	No
			<i>Gopherus agassizii</i>	Desert tortoise	Onsite	T	Reptile	Yes
SW Fort Polk	LA	4	<i>Picoides borealis</i>	Red-cockaded woodpecker	Onsite	E	Bird	No
			<i>Pituophis ruthveni</i>	Louisiana pine snake	Onsite	C	Reptile	No
SW Fort Sam Houston	TX	2	<i>Cicurina madla</i>	Madla's Cave Meshweaver	Onsite	E	Arachnid	No
			<i>Dendroica chrysoparia</i>	Golden-cheeked warbler	Onsite	E	Bird	No
			<i>Rhadine exilis</i>	Ground beetle	Onsite	E	Insect	No
			<i>Rhadine infernalis</i>	Ground beetle	Onsite	E	Insect	No
			<i>Vireo atricapillus</i>	Black-capped vireo	Onsite	E	Bird	No
SW Fort Sill	OK	2	<i>Cynomys ludovicianus</i>	Black-tailed prairie dog	Onsite	C	Mammal	No
			<i>Vireo atricapillus</i>	Black-capped vireo	Onsite	E	Bird	No
SW Presidio of Monterey	CA	1	<i>Ambystoma californiense</i>	California tiger salamander	Onsite	T	Amphibian	No
			<i>Piperia yadonii</i>	Yadon's piperia	Onsite	E	Plant	No

IMA Region/ Installation MACOM	State	FWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation
SW White Sands Missile Range	NM	2	<i>Coccyzus americanus</i>	Yellow-billed cuckoo	Onsite	C	Bird	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>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Hedeoma todsenii</i>	Todsen's pennyroyal	Onsite	E	Plant	Yes
			<i>Strix occidentalis lucida</i>	Mexican spotted owl	Contiguous	T	Bird	No
SW Yuma Proving Grounds	AZ	2	<i>Echinocactus horizonthalonius var. nicholii</i>	Nichol's Turk's head cactus	Onsite	E	Plant	No
USAR 63RD RRC HQ	CA	1	<i>Ambystoma californiense</i>	California tiger salamander	Onsite	T	Amphibian	No
			<i>Chorizanthe pungens var. pungens</i>	Monterey spineflower	Onsite	T	Plant	No
			<i>Dipodomys stephensi (incl. D. cascus)</i>	Stephens' kangaroo rat	Contiguous	E	Mammal	No
			<i>Lanius ludovicianus mearnsi</i>	San Clemente loggerhead shrike	Contiguous	E	Bird	No
			<i>Rana aurora draytonii</i>	California red-legged frog	Contiguous	T	Amphibian	No
USAR 70TH RRC HQ	WA	1	<i>Oncorhynchus tshawytscha</i>	Chinook Salmon	Onsite	E	Fish	No
			<i>Salvelinus confluentus</i>	Bull Trout	Onsite	T	Fish	No

Appendix B: TEPC & Installations Where Recorded - Sorted by Scientific Name

Scientific Name (Genus, species)	Common Name	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
<i>Achatinella apexfulva</i>	Pupu kuahiwi	E	Snail	PAC	1	Kawailoa TA	HI	Onsite	No
<i>Achatinella byronii</i>	Pupu kuahiwi	E	Snail	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Achatinella curta</i>	Pupu kuahiwi	E	Snail	PAC	1	Kawailoa TA	HI	Onsite	No
<i>Achatinella decipiens</i>	Pupu kuahiwi	E	Snail	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Achatinella leucorraphe</i>	Pupu kuahiwi	E	Snail	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Achatinella lila</i>	Pupu kuahiwi	E	Snail	PAC	1	Kawailoa TA	HI	Onsite	No
<i>Achatinella livida</i>	Pupu kuahiwi	E	Snail	PAC	1	Kawailoa TA	HI	Onsite	No
<i>Achatinella mustelina</i>	Pupu kuahiwi	E	Snail	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Achatinella pulcherrima</i>	Pupu kuahiwi	E	Snail	PAC	1	Kawailoa TA	HI	Onsite	No
<i>Achatinella sowerbyana</i>	Pupu kuahiwi	E	Snail	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Acipenser brevirostrum</i>	Shortnose sturgeon	E	Fish	ARNG	5	Camp Smith TS	NY	Contiguous	No
				NE	5	Aberdeen Proving Ground	MD	Onsite	No
				NE	5	West Point Military Reservation	NY	Onsite	No
				SE	4	Fort Stewart	GA	Onsite	No
				SE	4	Military Ocean Terminal-Sunny Point	NC	Contiguous	No
<i>Alectryon macrococcus</i>	Mahoe	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Alligator mississippiensis</i>	American alligator	T(S/A)	Reptile	AMC	2	Lonestar AAP	TX	Onsite	No
				AMC	4	Pine Bluff Arsenal	AR	Onsite	No
				ARNG	4	Camp Blanding	FL	Onsite	No
				ARNG	4	Camp Shelby	MS	Onsite	No
				BRAC	2	Longhorn AAP	TX	Onsite	No
				SE	4	Fort Benning	GA	Onsite	No
				SE	4	Fort Rucker	AL	Onsite	No

Scientific Name (Genus, species)	Common Name	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
<i>Alligator mississippiensis</i> (cont'd)	American alligator	T(S/A)	Reptile	SE	4	Military Ocean Terminal-Sunny Point	NC	Onsite	No
				SE	4	Redstone Arsenal	AL	Onsite	No
<i>Alsinidendron obovatum</i>	None	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Alsinidendron trinerve</i>	None	E	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Amaranthus pumilus</i>	Seabeach amaranth	T	Plant	ARNG	5	Sea Girt TS	NJ	Onsite	No
<i>Amblyopsis rosae</i>	Ozark cavefish	T	Fish	ARNG	3	Camp Crowder	MO	Contiguous	No
<i>Ambystoma californiense</i>	California tiger salamander	T	Amphibian	NW	1	Fort Hunter Liggett	CA	Onsite	No
				NW	1	Parks RFTA	CA	Onsite	No
				SW	1	Presidio of Monterey	CA	Onsite	No
				USAR	1	63RD RRC HQ	CA	Onsite	No
<i>Ambystoma cingulatum</i>	Flatwoods salamander	T	Amphibian	SE	4	Fort Stewart	GA	Onsite	No
<i>Ambystoma tigrinum stebbinsi</i>	Sonoran tiger salamander	E	Amphibian	SW	2	Fort Huachuca	AZ	Onsite	No
<i>Anas wyvilliana</i>	Hawaiian duck (=koloa)	E	Bird	ARNG	1	Fort Ruger	HI	On-Site	No
				ARNG	1	Ukumehame	HI	On-Site	No
<i>Aphelocoma coerulescens</i>	Florida scrub jay	T	Bird	ARNG	4	Camp Blanding	FL	Onsite	No
<i>Apios priceana</i>	Price's potato-bean	T	Plant	SE	4	Redstone Arsenal	AL	Onsite	No
<i>Arctomecon humilis</i>	Dwarf bear-poppy	E	Plant	ARNG	6	St. George UT OMS 10B	UT	Onsite	No
<i>Asplenium fragile</i> var. <i>insulare</i>	None	E	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No
<i>Astragalus jaegerianus</i>	Lane Mountain milk-vetch	E	Plant	SW	1	Fort Irwin	CA	Onsite	No
<i>Bonamia menziesii</i>	None	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Brachyramphus marmoratus marmoratus</i>	Marbled murrelet	T	Bird	ARNG	1	Camp Rilea	OR	Contiguous	No
				NW	1	Fort Lewis	WA	Contiguous	No
<i>Branchinecta lynchi</i>	Vernal pool fairy shrimp	T	Crustacean	ARNG	1	Camp Roberts TS	CA	Onsite	No
				NW	1	Fort Hunter Liggett	CA	Onsite	No
<i>Branta sandvicensis</i>	Hawaiian goose	E	Bird	ARNG	1	Ukumehame Firing Range	HI	Onsite	No
				PAC	1	Pohakuloa TA	HI	Onsite	No
<i>Bufo californicus</i>	Arroyo toad	E	Amphibian	NW	1	Fort Hunter Liggett	CA	Onsite	No
<i>Buteo solitarius</i>	Hawaiian hawk	E	Bird	ARNG	1	Hilo (Keaukaha Military Reserv)	HI	Onsite	No

Scientific Name (Genus, species)	Common Name	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
<i>Buteo solitarius (cont'd)</i>	Hawaiian hawk	E	Bird	PAC	1	Pohakuloa TA	HI	Onsite	No
<i>Canis lupus</i>	Gray wolf	T	Mammal	ARNG	3	Camp Ripley	MN	Onsite	No
				NW	3	Fort McCoy	WI	Onsite	No
<i>Caretta caretta</i>	Loggerhead sea turtle	T	Reptile	SE	4	Military Ocean Terminal-Sunny Point	NC	Contiguous	No
<i>Cenchrus agrimonoides</i>	Kamanomano	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Centrocercus urophasianus phaios</i>	Western sage grouse	C	Bird	NW	1	Yakima Training Center	WA	Onsite	No
<i>Chamaesyce celastroides var. kaenana</i>	`Akoko	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Chamaesyce rockii</i>	`Akoko	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
<i>Charadrius alexandrinus nivosus</i>	Western snowy plover	T	Bird	ARNG	1	Camp Rilea	OR	Contiguous	No
				BRAC	1	Fort Ord	CA	Onsite	Yes
<i>Charadrius melodus</i>	Piping plover	T	Bird	ARNG	6	Camp Grafton	ND	Onsite	No
				ARNG	6	Garrison TS	ND	Contiguous	No
				ARNG	5	Sea Girt TS	NJ	Onsite	No
				NW	6	Fort Riley	KS	Onsite	No
				SE	4	Military Ocean Terminal-Sunny Point	NC	Contiguous	No
<i>Chasiempis sandwichensis ibidis</i>	O'ahu 'elepaio	E	Bird	PAC	1	Kawailoa TA	HI	Contiguous	Yes
				PAC	1	Makua Military Reservation	HI	Onsite	Yes
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	Yes
<i>Chelonia mydas</i>	Green sea turtle	T	Reptile	SE	4	Military Ocean Terminal-Sunny Point	NC	Contiguous	No
<i>Chlorogalum purpureum</i>	Purple amole	T	Plant	ARNG	1	Camp Roberts TS	CA	Onsite	No
				NW	1	Fort Hunter Liggett	CA	Onsite	No
<i>Chorizanthe pungens var. pungens</i>	Monterey spineflower	T	Plant	BRAC	1	Fort Ord	CA	Onsite	Yes
				USAR	1	63RD RRC HQ	CA	Onsite	No
<i>Christella boydiae</i>	None	C	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
<i>Cicurina madla</i>	Madla's Cave Meshweaver	E	Arachnid	SW	2	Fort Sam Houston	TX	Onsite	No
<i>Cirsium fontinale var. obispoense</i>	Chorro Creek bog thistle	E	Plant	ARNG	1	Camp San Luis Obispo	CA	Onsite	No
<i>Clemmys muhlenbergii</i>	Bog turtle	T	Reptile	NE	5	Picatinny Arsenal	NJ	Contiguous	No
<i>Coccyzus americanus</i>	Yellow-billed cuckoo	C	Bird	SW	2	Fort Huachuca	AZ	Onsite	No

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<i>Coccyzus americanus</i> (cont'd)	Yellow-billed cuckoo	C	Bird	SW	2	White Sands Missile Range	NM	Onsite	No
<i>Coryphantha sneedii</i> var. <i>sneedii</i>	Sneed pincushion cactus	E	Plant	SW	2	Fort Bliss	TX	Onsite	No
<i>Ctenitis squamigera</i>	Pauoa	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Cyanea acuminata</i>	Haha	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Cyanea crispa</i>	None	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
<i>Cyanea humboldtiana</i>	Haha	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
<i>Cyanea koolauensis</i>	Haha	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Cyanea lanceolata</i>	Haha	C	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Cyanea st-johnii</i>	Haha	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
<i>Cyanea superba</i>	Haha	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Cynomys ludovicianus</i>	Black-tailed prairie dog	C	Mammal	AMC	6	Pueblo Depot Activity	CO	Onsite	No
				ARNG	6	Fort Harrison	MT	Onsite	No
				ARNG	6	Salina Smokey Hil TA	KS	Contiguous	No
				ARNG	6	Sheridan LTA	WY	Onsite	No
				BRAC	6	Rocky Mountain Arsenal	CO	Onsite	No
				NW	6	Fort Carson	CO	Onsite	No
				SW	2	Fort Bliss	TX	Onsite	No
SW	2	Fort Sill	OK	Onsite	No				
<i>Cynomys parvidens</i>	Utah prairie dog	T	Mammal	ARNG	6	Cedar City Armory UT OMS 10C	UT	Contiguous	No
<i>Cyperus trachysanthos</i>	Pu`uka`a	E	Plant	ARNG	1	Fort Ruger	HI	Onsite	Yes
<i>Cyrtandra dentata</i>	Ha`iwale	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Cyrtandra subumbellata</i>	Ha`iwale	E	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Cyrtandra viridiflora</i>	Ha`iwale	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
<i>Delissea subcordata</i>	`Oha	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Dendroica chrysoparia</i>	Golden-cheeked warbler	E	Bird	ARNG	2	Fredericksburg Armory	TX	Onsite	No

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<i>Dendroica chrysoparia</i> (cont'd)	Golden-cheeked warbler	E	Bird	SW	2	Fort Hood	TX	Onsite	No
				SW	2	Fort Sam Houston	TX	Onsite	No
<i>Dendroica kirtlandii</i>	Kirtland's warbler	E	Bird	ARNG	3	Camp Grayling	MI	Onsite	No
<i>Dermochelys coriacea</i>	Leatherback sea turtle	E	Reptile	SE	4	Military Ocean Terminal-Sunny Point	NC	Contiguous	No
<i>Desmocerus californicus dimorphus</i>	Valley elderberry longhorn beetle	E	Insect	AMC	1	Riverbank AAP	CA	Contiguous	No
<i>Diellia falcata</i>	None	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Dipodomys stephensi</i> (incl. <i>D. cascus</i>)	Stephens' kangaroo rat	E	Mammal	USAR	1	63rd RRC HQ	CA	Contiguous	No
<i>Drymarchon corais couperi</i>	Eastern indigo snake	T	Reptile	ARNG	4	Camp Blanding	FL	Onsite	No
				SE	4	Fort Stewart	GA	Onsite	No
<i>Dubautia herbstobatae</i>	Na`ena`e	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Echinacea laevigata</i>	Smooth coneflower	E	Plant	ARNG	4	Leesburg TS	SC	Onsite	No
				SE	4	Fort Jackson	SC	Onsite	No
<i>Echinocactus horizontalis</i> var. <i>nicholii</i>	Nichol's Turk's head cactus	E	Plant	SW	2	Yuma Proving Grounds	AZ	Onsite	No
<i>Echinocereus fendleri</i> var. <i>kuenzleri</i>	Kuenzler hedgehog cactus	E	Plant	SW	2	Fort Bliss	TX	Onsite	No
<i>Empidonax traillii extimus</i>	Southwestern willow flycatcher	E	Bird	SW	2	Fort Huachuca	AZ	Contiguous	No
				SW	2	White Sands Missile Range	NM	Contiguous	No
<i>Epicrates inornatus</i>	Puerto Rican boa	E	Reptile	SE	4	Fort Buchanan	PR	Onsite	No
<i>Eremophila alpestris strigata</i>	Streaked horned lark	C	Bird	NW	1	Fort Lewis	WA	Onsite	No
<i>Erigeron basalticus</i>	Basalt daisy	C	Plant	NW	1	Yakima Training Center	WA	Onsite	No
<i>Erigeron lemmonii</i>	Lemmon fleabane	C	Plant	SW	2	Fort Huachuca	AZ	Onsite	No
<i>Etheostoma cragini</i>	Arkansas darter	C	Fish	NW	6	Fort Carson	CO	Onsite	No
<i>Etheostoma sellare</i>	Maryland darter	E	Fish	NE	5	Aberdeen Proving Ground	MD	Contiguous	No
<i>Eugenia koolauensis</i>	Nioi	E	Plant	PAC	1	Kahuku TA	HI	Onsite	No
<i>Euphilotes enoptes smithi</i>	Smith's blue butterfly	E	Insect	BRAC	1	Fort Ord	CA	Onsite	No
<i>Euphorbia haeleeleana</i>	`Akoko	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Euphydryas editha taylori</i>	Taylor's checkerspot butterfly	C	Insect	NW	1	Fort Lewis	WA	Onsite	No
<i>Falco femoralis septentrionalis</i>	Northern aplomado falcon	E	Bird	SW	2	Fort Bliss	TX	Onsite	No

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<i>Falco femoralis septentrionalis (cont'd)</i>	Northern aplomado falcon	E	Bird	SW	2	White Sands Missile Range	NM	Onsite	No
<i>Fallicambarus gordonii</i>	Camp Shelby burrowing crayfish	C	Crustacean	ARNG	4	Camp Shelby	MS	Onsite	No
<i>Festuca hawaiiensis</i>	None	C	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No
<i>Flueggea neowawraea</i>	Mehamehame	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Fulica americana alai</i>	Hawaiian coot	E	Bird	ARNG	1	Fort Ruger	HI	Onsite	No
				ARNG	1	Ukumehame Firing Range	HI	Onsite	No
<i>Gallinula chloropus sandvicensis</i>	Hawaiian common moorhen	E	Bird	ARNG	1	Fort Ruger	HI	Onsite	No
				ARNG	1	Ukumehame Firing Range	HI	Onsite	No
<i>Gardenia mannii</i>	Nanu	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Gilia tenuiflora ssp. arenaria</i>	Monterey gilia	E	Plant	BRAC	1	Fort Ord	CA	Onsite	No
<i>Glaucidium brasilianum cactorum</i>	Cactus ferruginous pygmy-owl	E	Bird	ARNG	2	Florence Military Reservation	AZ	Contiguous	No
<i>Gopherus agassizii</i>	Desert tortoise	T	Reptile	ARNG	1	Clark County TA	NV	Contiguous	No
				SW	1	Fort Irwin	CA	Onsite	Yes
				ARNG	1	Stead TS	NV	Onsite	No
				T(S/A)	ARNG	2	Florence Military Reservation	AZ	Onsite
<i>Gopherus polyphemus</i>	Gopher tortoise	T	Reptile	ARNG	4	Camp Shelby	MS	Onsite	No
<i>Grus americana</i>	Whooping crane	E	Bird	ARNG	6	Hastings TS/UTES 1	NE	Contiguous	No
				SW	2	Fort Hood	TX	Onsite	No
<i>Gymnogyps californianus</i>	California condor	E	Bird	ARNG	1	Camp Roberts TS	CA	Contiguous	No
				ARNG	1	Camp San Luis Obispo	CA	Contiguous	No
				NW	1	Fort Hunter Liggett	CA	Onsite	No
<i>Haliaeetus leucocephalus</i>	Bald eagle	T	Bird	AMC	6	Deseret Chemical Depot	UT	Contiguous	No
				AMC	1	Hawthorne AAP	NV	Contiguous	No
				AMC	4	Holston AAP	TN	Onsite	No
				AMC	3	Newport Chemical Activity	IN	Contiguous	No
				AMC	3	Rock Island Arsenal	IL	Onsite	No

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<i>Haliaeetus leucocephalus</i> (cont'd)	Bald eagle	T	Bird	ARNG	3	Atterbury TS	IN	Onsite	No
				ARNG	6	Camp Ashland MTA/OMS 5	NE	Onsite	No
				ARNG	4	Camp Blanding	FL	Onsite	No
				ARNG	3	Camp Crowder	MO	Onsite	No
				ARNG	3	Camp Grayling	MI	Onsite	No
				ARNG	6	Camp Guernsey	WY	Onsite	No
				ARNG	2	Camp J.T. Robinson	AR	Contiguous	No
				ARNG	1	Camp Murray	WA	Onsite	No
				ARNG	3	Camp Perry	OH	Onsite	No
				ARNG	1	Camp Rilea	OR	Onsite	No
				ARNG	3	Camp Ripley	MN	Onsite	No
				ARNG	1	Camp Roberts TS	CA	Onsite	No
				ARNG	5	Camp Smith TS	NY	Contiguous	No
				ARNG	4	Fort Chaffee	AR	Onsite	No
				ARNG	5	Fort Pickett	VA	Onsite	No
				ARNG	3	Ike Skeleton TS	MO	Onsite	No
				ARNG	3	Macon TS	MO	Onsite	No
				ARNG	1	Stead TS	NV	Onsite	No
				ARNG	3	Truman Reservoir TS	MO	Onsite	No
				BRAC	6	Rocky Mountain Arsenal	CO	Onsite	No
				BRAC	3	Savanna Army Depot	IL	Onsite	No
				NE	5	Aberdeen Proving Ground	MD	Onsite	No
				NE	5	Adelphi Army Research Laboratory	MD	Onsite	No
				NE	5	Fort A.P. Hill	VA	Onsite	No
				NE	5	Fort Belvoir	VA	Onsite	No
				NE	5	Fort Dix	NJ	Onsite	No
				NE	5	Fort Eustis	VA	Onsite	No
				NE	5	Picatinny Arsenal	NJ	Contiguous	No

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<i>Haliaeetus leucocephalus</i> (cont'd)	Bald eagle	T	Bird	NE	5	USA CASCOM & Fort Lee	VA	Contiguous	No
				NE	5	West Point Military Reservation	NY	Onsite	No
				NW	6	Dugway Proving Ground	UT	Contiguous	No
				NW	6	Fort Carson	CO	Onsite	No
				NW	1	Fort Hunter Liggett	CA	Onsite	No
				NW	6	Fort Leavenworth	KS	Onsite	No
				NW	3	Fort Leonard Wood	MO	Onsite	No
				NW	1	Fort Lewis	WA	Onsite	No
				NW	3	Fort McCoy	WI	Onsite	No
				NW	6	Fort Riley	KS	Onsite	No
				NW	1	Yakima Training Center	WA	Onsite	No
				SE	4	Fort Benning	GA	Onsite	No
				SE	4	Fort Gordon	GA	Contiguous	No
				SE	4	Fort Knox	KY	Onsite	No
				SE	4	Fort Stewart	GA	Onsite	No
				SE	4	Military Ocean Terminal-Sunny Point	NC	Onsite	No
				SE	4	Redstone Arsenal	AL	Onsite	No
				SW	2	Fort Bliss	TX	Onsite	No
SW	2	Fort Hood	TX	Onsite	No				
SW	1	White Sands Missile Range	NM	Onsite	No				
<i>Haplostachys haplostachya</i>	Honohono	E	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No
<i>Hedeoma todsenii</i>	Todsen's pennyroyal	E	Plant	SW	2	White Sands Missile Range	NM	Onsite	Yes
<i>Hedyotis coriacea</i>	Kio`ele	E	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No
<i>Hedyotis degeneri</i>	None	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Hedyotis fluviatilis</i>	Kampua`a	C	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
<i>Hedyotis parvula</i>	None	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Helianthus eggertii</i>	Eggert's sunflower	T	Plant	ARNG	4	Tullahoma TS	TN	Onsite	No
<i>Helminthoglypta walkeriana</i>	Morro shoulderband snail	E	Snail	ARNG	1	Camp San Luis Obispo	CA	Onsite	No

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<i>Helonias bullata</i>	Swamp pink	T	Plant	NE	5	Fort A.P. Hill	VA	Onsite	No
<i>Hemignathus munroi</i>	Akiapola`au (honeycreeper)	E	Bird	PAC	1	Pohakuloa TA	HI	Onsite	No
<i>Hesperomannia arborescens</i>	None	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Hibiscus brackenridgei</i>	Ma`o hau hele	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Himantopus mexicanus knudseni</i>	Hawaiian stilt	E	Bird	ARNG	1	Kekaha WETS	HI	Onsite	No
				ARNG	1	Ukumehame Firing Range	HI	Onsite	No
<i>Holocarpha macradenia</i>	Santa Cruz tarplant	T	Plant	ARNG	1	Santa Cruz Armory	CA	Onsite	Yes
<i>Howellia aquatilis</i>	Water howellia	T	Plant	NW	1	Fort Lewis	WA	Onsite	No
<i>Isodendron longifolium</i>	Aupaka	T	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Isoetes louisianensis</i>	Louisiana quillwort	E	Plant	ARNG	4	Camp Shelby	MS	Onsite	No
<i>Isotria medeoloides</i>	Small whorled pogonia	T	Plant	NE	5	Fort A.P. Hill	VA	Onsite	No
				NE	5	Fort Belvoir	VA	Contiguous	No
				ARNG	5	NHNG TS	NH	Contiguous	No
<i>Korthalsella degeneri</i>	Hulumoa	C	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Labordia cyrtandrae</i>	Kamakahala	E	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Lampsilis higginsii</i>	Higgins Eye pearlymussel	E	Clam	BRAC	3	Savanna Army Depot	IL	Onsite	No
<i>Lanius ludovicianus mearnsi</i>	San Clemente loggerhead shrike	E	Bird	USAR	1	63rd RRC HQ	CA	Contiguous	No
<i>Lasiurus cinereus semotus</i>	Hawaiian hoary bat	E	Mammal	ARNG	1	Hilo (Keaukaha Military Re	HI	Onsite	No
				PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Makua Military Reservation	HI	Onsite	No
				PAC	1	Pohakuloa TA	HI	Onsite	No
<i>Lasthenia conjugens</i>	Contra Costa goldfields	E	Plant	BRAC	1	Fort Ord	CA	Onsite	Yes
<i>Lepidium arbuscula</i>	`Anaunau	E	Plant	PAC	1	Dillingham Military Reservation	HI	Onsite	No
				PAC	1	Makua Military Reservation	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Lepidochelys kempii</i>	Kemp's ridley sea turtle	E	Reptile	SE	4	Military Ocean Terminal-Sunny Point	NC	Contiguous	No
<i>Leptonycteris curasoae yerbabuena</i>	Lesser long-nosed bat	E	Mammal	SW	2	Fort Huachuca	AZ	Onsite	No

Scientific Name (Genus, species)	Common Name	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
<i>Lilaeopsis schaffneriana</i> var. <i>recurva</i>	Huachuca water-umbel	E	Plant	SW	2	Fort Huachuca	AZ	Onsite	Yes
<i>Lipochaeta tenuifolia</i>	Nehe	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Lobelia gaudichaudii</i> ssp. <i>koolauensis</i>	None	E	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Lobelia niihauensis</i>	None	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Lobelia oahuensis</i>	None	E	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Loxioides bailleui</i>	Palila	E	Bird	PAC	1	Pohakuloa TA	HI	Onsite	Yes
<i>Lupinus sulphureus</i> var. <i>kincaidii</i>	Kincaid's Lupine	T	Plant	ARNG	1	Corvallis or Camp Adair	OR	Onsite	No
<i>Lycaeides melissa samuelis</i>	Karner blue butterfly	E	Insect	ARNG	5	NH State Military Reservation	NH	Contiguous	No
					3	Fort McCoy	WI	Onsite	No
<i>Lycopodium nutans</i>	Wawae`iole	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Lysimachia asperulaefolia</i>	Rough-leaved loosestrife	E	Plant	ARNG	4	Leesburg TS	SC	Onsite	No
				SE	4	Fort Bragg	NC	Onsite	No
				SE	4	Fort Jackson	SC	Onsite	No
				SE	4	Military Ocean Terminal-Sunny Point	NC	Onsite	No
<i>Marshallia mohrii</i>	Mohr's Barbara button	T	Plant	ARNG	4	Fort McClellan	AL	Onsite	No
<i>Meda fulgida</i>	Spikedace	T	Fish	SW	2	Fort Huachuca	AZ	Contiguous	No
<i>Megalagrion xanthomelas</i>	Orangeblack Hawaiian damselfly	C	Insect	PAC	1	Tripler Army Med Center	HI	Onsite	No
<i>Melicope hiakae</i>	Alani	C	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
<i>Melicope lydgatei</i>	Alani	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
<i>Melicope makahae</i>	Alani	C	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Mycteria americana</i>	Wood stork	E	Bird	ARNG	4	Camp Blanding	FL	Onsite	No
				SE	4	Fort Benning	GA	Onsite	No
				SE	4	Fort Gordon	GA	Contiguous	No
				SE	4	Fort Stewart	GA	Onsite	No
<i>Myotis grisescens</i>	Gray bat	E	Mammal	AMC	4	Holston AAP	TN	Onsite	No
				ARNG	4	Fort McClellan	AL	Onsite	No
				ARNG	4	Tullahoma TS	TN	Contiguous	No

Scientific Name (Genus, species)	Common Name	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
<i>Myotis grisescens (cont'd)</i>	Gray bat	E	Mammal	BRAC	3	Indiana AAP	IN	Onsite	No
				NW	3	Fort Leonard Wood	MO	Onsite	No
				SE	4	Fort Campbell	KY	Onsite	No
				SE	4	Fort Knox	KY	Onsite	No
				SE	4	Redstone Arsenal	AL	Onsite	No
<i>Myotis sodalis</i>	Indiana bat	E	Mammal	AMC	3	Iowa AAP	IA	Onsite	No
				AMC	3	Newport Chemical Activity	IN	Onsite	No
				ARNG	3	Atterbury TS	IN	Onsite	No
				ARNG	3	Macon TS	MO	Contiguous	No
				BRAC	3	Jefferson Proving Ground	IN	Onsite	No
				NE	5	Picatinny Arsenal	NJ	Onsite	No
				NW	3	Fort Leonard Wood	MO	Onsite	No
				SE	4	Fort Campbell	KY	Onsite	No
				SE	4	Fort Knox	KY	Onsite	No
				SE	4	Redstone Arsenal	AL	Contiguous	No
<i>Myrsine fosbergii</i>	Kolea	C	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
<i>Myrsine juddii</i>	Kolea	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
<i>Neonympha mitchellii francisci</i>	Saint Francis' satyr butterfly	E	Insect	SE	4	Fort Bragg	NC	Onsite	No
<i>Neraudia angulata</i>	None	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Neraudia ovata</i>	None	E	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No
<i>Nicrophorus americanus</i>	American burying beetle	E	Insect	AMC	2	McAlester AAP	OK	Onsite	No
				ARNG	2	Camp Gruber TS	OK	Onsite	No
				ARNG	2	Camp Maxey	TX	Onsite	No
				ARNG	4	Fort Chaffee	AR	Onsite	No
<i>Nothoestrum latifolium</i>	`Aiea	C	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Nototrichium humile</i>	Kulu`i	E	Plant	PAC	1	Dillingham Military Reservation	HI	Contiguous	No
				PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Notropis topeka</i>	Topeka shiner	E	Fish	NW	6	Fort Riley	KS	Onsite	No

Scientific Name (Genus, species)	Common Name	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
<i>Oncorhynchus clarki henshawi</i>	Lahontan cutthroat trout	T	Fish	AMC	1	Hawthorne AAP	NV	Contiguous	No
<i>Oncorhynchus clarki stomias</i>	Greenback cutthroat trout	T	Fish	NW	6	Fort Carson	CO	Onsite	No
<i>Oncorhynchus mykiss</i>	Steelhead	T	Fish	ARNG	1	Camp Roberts TS	CA	Onsite	No
				ARNG	1	Camp San Luis Obispo	CA	Onsite	No
				E	NW	1	Yakima Training Center	WA	Onsite
<i>Oncorhynchus tshawytscha</i>	Chinook Salmon	E	Fish	NW	1	Fort Lewis	WA	Onsite	No
				NW	1	Yakima Training Center	WA	Onsite	No
				USAR	1	70TH RRC HQ	WA	Onsite	No
<i>Ottoschulzia rhodoxylon</i>	Palo de rosa	E	Plant	SE	4	Fort Buchanan	PR	Onsite	No
<i>Palaemonias alabamae</i>	Alabama cave shrimp	E	Crustacean	SE	4	Redstone Arsenal	AL	Onsite	No
<i>Panicum niihauense</i>	Lau `ehu	E	Plant	ARNG	1	Kekaha WETS	HI	Onsite	No
<i>Pelecanus occidentalis</i>	Brown pelican	E	Bird	ARNG	1	Camp Rilea	OR	Contiguous	No
<i>Percina rex</i>	Roanoke logperch	E	Fish	ARNG	5	Fort Pickett	VA	Onsite	No
<i>Phyllostegia hirsuta</i>	None	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Phyllostegia mollis</i>	None	E	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Picoides borealis</i>	Red-cockaded woodpecker	E	Bird	ARNG	4	Camp Beauregard	LA	Contiguous	No
				ARNG	4	Camp Blanding	FL	Onsite	No
				ARNG	4	Camp Shelby	MS	Contiguous	No
				ARNG	4	Leesburg TS	SC	Onsite	No
				SE	4	Fort Benning	GA	Onsite	No
				SE	4	Fort Bragg	NC	Onsite	No
				SE	4	Fort Gordon	GA	Onsite	No
				SE	4	Fort Jackson	SC	Onsite	No
				SE	4	Fort Stewart	GA	Onsite	No
				SE	4	Military Ocean Terminal-Sunny Point	NC	Onsite	No
SW	4	Fort Polk	LA	Onsite	No				
<i>Piperia yadonii</i>	Yadon's piperia	E	Plant	SW	1	Presidio of Monterey	CA	Onsite	No

Scientific Name (Genus, species)	Common Name	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
<i>Pituophis melanoleucus lodingi</i>	Black pine snake	C	Reptile	ARNG	4	Camp Shelby	MS	Onsite	No
<i>Pituophis ruthveni</i>	Louisiana pine snake	C	Reptile	SW	4	Fort Polk	LA	Onsite	No
<i>Plantago princeps</i>	Kuahiwi laukahi	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Platydesma cornuta cornuta</i>	None	C	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
<i>Platydesma cornuta decurrens</i>	None	C	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Pleomele forbesii</i>	Hala pepe	C	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Polites mardon</i>	Mardon skipper	C	Insect	NW	1	Fort Lewis	WA	Onsite	No
<i>Polysticta stelleri</i>	Steller's eider	T	Bird	ARNG	7	Chevak Armory	AK	Contiguous	No
				ARNG	7	Kwigillingok Armory	AK	Contiguous	No
<i>Portulaca sclerocarpa</i>	Po'e	E	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No
<i>Pritchardia kaalae</i>	Lo'ulu	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Pseudocopaesodes eunus obscurus</i>	Carson wandering skipper	E	Insect	AMC	1	Sierra Army Depot	CA	Contiguous	No
<i>Psychotria hexandra oahuensis</i>	Kopiko	C	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
<i>Pteralyxia macrocarpa</i>	Kaulu	C	Plant	PAC	1	Kahuku TA	HI	Onsite	No
				PAC	1	Makua Military Reservation	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Pteris lidgatei</i>	None	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Pterodroma phaeopygia sandwichensis</i>	Hawaiian dark-rumped petrel	E	Bird	PAC	1	Pohakuloa TA	HI	Onsite	No
<i>Ptilimnium nodosum</i>	Harperella	E	Plant	ARNG	5	BG Thomas B. Baker TS (formerly Lil Aaron Strauss)	MD	Onsite	No
<i>Puma concolor coryi</i>	Florida panther	E	Mammal	ARNG	4	Camp Blanding	FL	Onsite	No
<i>Pyrgulopsis thompsoni</i>	Huachuca springsnail	C	Snail	SW	2	Fort Huachuca	AZ	Onsite	No
<i>Rana aurora draytonii</i>	California red-legged frog	T	Amphibian	ARNG	1	Camp San Luis Obispo	CA	Onsite	No
				BRAC	1	Fort Ord	CA	Contiguous	No
				NW	1	Fort Hunter Liggett	CA	Contiguous	No

Scientific Name (Genus, species)	Common Name	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
<i>Rana aurora draytonii</i> (cont'd)	California red-legged frog	T	Amphibian	NW	1	Parks RFTA	CA	Onsite	No
				USAR	1	63rd RRC HQ	CA	Contiguous	No
<i>Rana chiricahuensis</i>	Chiricahua leopard frog	T	Amphibian	SW	2	Fort Huachuca	AZ	Onsite	No
<i>Rhadine exilis</i>	Ground beetle	E	Insect	SW	2	Fort Sam Houston	TX	Onsite	No
<i>Rhadine infernalis</i>	Ground beetle	E	Insect	SW	2	Fort Sam Houston	TX	Onsite	No
<i>Rhododendron chapmanii</i>	Chapman's rhododendron	E	Plant	ARNG	4	Camp Blanding	FL	Onsite	No
<i>Rhus michauxii</i>	Michaux's sumac	E	Plant	ARNG	5	Fort Pickett	VA	Onsite	No
				SE	4	Fort Bragg	NC	Onsite	No
<i>Salvelinus confluentus</i>	Bull trout	T	Fish	NW	1	Fort Lewis	WA	Onsite	No
				NW	1	Yakima Training Center	WA	Contiguous	No
				USAR	1	70TH RRC HQ	WA	Onsite	No
<i>Sanicula mariversa</i>	None	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Sanicula purpurea</i>	None	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Schiedea adamantis</i>	Diamond Head schiedea	E	Plant	ARNG	1	Fort Ruger	HI	Onsite	No
<i>Schiedea hookeri</i>	None	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Schiedea kealiae</i>	Ma'oli'oli	E	Plant	PAC	1	Dillingham Military Reservation	HI	Onsite	No
<i>Schiedea nuttallii</i>	None	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Schwalbea americana</i>	American chaffseed	E	Plant	SE	4	Fort Bragg	NC	Onsite	No
<i>Scutellaria montana</i>	Large-flowered skullcap	T	Plant	ARNG	4	Catoosa Range/TS	TN	Onsite	No
<i>Sidalcea nelsoniana</i>	Nelson's checker-mallow	T	Plant	ARNG	1	Corvallis or Camp Adair	OR	Onsite	No
<i>Silene hawaiiensis</i>	None	T	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No
<i>Silene lanceolata</i>	None	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
				PAC	1	Pohakuloa TA	HI	Onsite	No
<i>Sistrurus catenatus catenatus</i>	Eastern massasauga	C	Reptile	ARNG	3	Camp Grayling	MI	Onsite	No
<i>Solanum incompletum</i>	Popolo ku mai	E	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No
<i>Solidago houghtonii</i>	Houghton's goldenrod	T	Plant	ARNG	3	Camp Grayling	MI	Onsite	No
<i>Somateria fischeri</i>	Spectacled eider	T	Bird	ARNG	7	Elim Armory	AK	Contiguous	No

Scientific Name (Genus, species)	Common Name	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
<i>Somateria fischeri</i> (cont'd)	Spectacled eider	T	Bird	ARNG	7	Shaktoolik Armory	AK	Contiguous	Yes
				ARNG	7	St. Michael Armory	AK	Contiguous	No
				ARNG	7	Stebbins Armory	AK	Contiguous	Yes
				ARNG	7	Unalakleet Armory	AK	Contiguous	Yes
<i>Spermolepis hawaiiensis</i>	None	E	Plant	ARNG	1	Fort Ruger	HI	Onsite	No
				PAC	1	Makua Military Reservation	HI	Onsite	No
				PAC	1	Pohakuloa TA	HI	Onsite	No
<i>Speyeria zerene hippolyta</i>	Oregon silverspot butterfly	T	Insect	ARNG	1	Camp Rilea	OR	Onsite	No
<i>Spiranthes diluvialis</i>	Ute ladies'-tresses	T	Plant	NW	6	Fort Carson	CO	Contiguous	No
<i>Stenogyne angustifolia</i> var. <i>angustifolia</i>	None	E	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No
<i>Sterna antillarum</i>	Least tern	E	Bird	ARNG	3	Ike Skeleton TS	MO	Contiguous	No
				NW	6	Fort Riley	KS	Onsite	No
<i>Strix occidentalis caurina</i>	Northern spotted owl	T	Bird	ARNG	1	Camp Rilea	OR	Contiguous	No
				ARNG	1	Corvalis or Camp Adair	OR	Contiguous	No
				NW	1	Fort Lewis	WA	Contiguous	Yes
<i>Strix occidentalis lucida</i>	Mexican spotted owl	T	Bird	ARNG	2	Camp Navajo	AZ	Onsite	Yes
				NW	6	Fort Carson	CO	Onsite	No
				SW	1	Fort Huachuca	AZ	Onsite	No
				SW	1	White Sands Missile Range	NM	Contiguous	No
<i>Tetramolopium arenarium</i>	None	E	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No
<i>Tetramolopium filiforme</i>	None	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Tetraplasandra gymnocarpa</i>	`Ohe`ohe	E	Plant	PAC	1	Kahuku TA	HI	Onsite	No
				PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Thalictrum cooleyi</i>	Cooley's meadowrue	E	Plant	SE	4	Military Ocean Terminal-Sunny Point	NC	Contiguous	No
<i>Thomomys mazama</i>	Mazama pocket gopher	C	Mammal	NW	1	Fort Lewis	WA	Onsite	No
<i>Tiaroga cobitis</i>	Loach minnow	T	Fish	SW	2	Fort Huachuca	AZ	Contiguous	No
<i>Trichechus manatus</i>	West Indian manatee	E	Mammal	SE	4	Military Ocean Terminal-Sunny Point	NC	Contiguous	No

Scientific Name (Genus, species)	Common Name	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
<i>Trifolium stoloniferum</i>	Running buffalo clover	E	Plant	AMC	4	Blue Grass Army Depot	KY	Onsite	No
<i>Trillium reliquum</i>	Relict trillium	E	Plant	SE	4	Fort Benning	GA	Onsite	No
<i>Urera kaalae</i>	Opuhe	E	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Viola chamissoniana</i> ssp. <i>chamissoniana</i>	Pamakani	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Viola oahuensis</i>	None	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
<i>Vireo atricapillus</i>	Black-capped vireo	E	Bird	ARNG	2	Camp Bowie	TX	Onsite	No
				SW	2	Fort Hood	TX	Onsite	No
				SW	2	Fort Sam Houston	TX	Onsite	No
				SW	2	Fort Sill	OK	Onsite	No
<i>Vireo bellii pusillus</i>	Least Bell's vireo	E	Bird	ARNG	1	Camp Roberts TS	CA	Contiguous	No
				ARNG	1	Camp San Luis Obispo	CA	Contiguous	No
				NW	1	Fort Hunter Liggett	CA	Contiguous	No
<i>Vulpes macrotis mutica</i>	San Joaquin kit fox	E	Mammal	ARNG	1	Camp Roberts TS	CA	Onsite	No
				NW	1	Fort Hunter Liggett	CA	Contiguous	No
				NW	1	Parks RFTA	CA	Contiguous	No
<i>Xyris tennesseensis</i>	Tennessee yellow-eyed grass	E	Plant	AMC	4	Anniston Army Depot	AL	Onsite	No
				ARNG	4	Fort McClellan	AL	Onsite	No
<i>Zanthoxylum hawaiiense</i>	A`e	E	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No
<i>Zanthoxylum oahuense</i>	A`e	C	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Zapus hudsonius preblei</i>	Preble's meadow jumping mouse	T	Mammal	NW	6	Fort Carson	CO	Contiguous	No

Appendix C: TEPC & Installations Where Recorded - Sorted by Common Name

Common Name	Scientific Name (Genus, species)	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
`Aiea	<i>Nothocestrum latifolium</i>	C	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
`Akoko	<i>Chamaesyce celastroides</i> var. <i>kaenana</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
`Akoko	<i>Chamaesyce rockii</i>	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
`Akoko	<i>Euphorbia haeleeleana</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
`Anaunau	<i>Lepidium arbuscula</i>	E	Plant	PAC	1	Dillingham Military Reservation	HI	Onsite	No
				PAC	1	Makua Military Reservation	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
`Oha	<i>Delissea subcordata</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
`Ohe`ohe	<i>Tetraplasandra gymnocarpa</i>	E	Plant	PAC	1	Kahuku TA	HI	Onsite	No
				PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
A`e	<i>Zanthoxylum hawaiiense</i>	E	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No
A`e	<i>Zanthoxylum oahuense</i>	C	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
Akiapola`au (honeycreeper)	<i>Hemignathus munroi</i>	E	Bird	PAC	1	Pohakuloa TA	HI	Onsite	No
Alabama cave shrimp	<i>Palaemonias alabamae</i>	E	Crustacean	SE	4	Redstone Arsenal	AL	Onsite	No
Alani	<i>Melicope hiiakae</i>	C	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
Alani	<i>Melicope lydgatei</i>	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
Alani	<i>Melicope makahae</i>	C	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
American alligator	<i>Alligator mississippiensis</i>	T(S/A)	Reptile	AMC	2	Lonestar AAP	TX	Onsite	No
				AMC	4	Pine Bluff Arsenal	AR	Onsite	No
				ARNG	4	Camp Blanding	FL	Onsite	No
				ARNG	4	Camp Shelby	MS	Onsite	No
				BRAC	2	Longhorn AAP	TX	Onsite	No
				SE	4	Fort Benning	GA	Onsite	No
				SE	4	Fort Rucker	AL	Onsite	No
				SE	4	Military Ocean Terminal-Sunny Point	NC	Onsite	No
SE	4	Redstone Arsenal	AL	Onsite	No				
American burying beetle	<i>Nicrophorus americanus</i>	E	Insect	AMC	2	McAlester AAP	OK	Onsite	No

Common Name	Scientific Name (Genus, species)	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
American burying beetle (cont'd)	<i>Nicrophorus americanus</i>	E	Insect	ARNG	2	Camp Gruber TS	OK	Onsite	No
				ARNG	2	Camp Maxey	TX	Onsite	No
				ARNG	4	Fort Chaffee	AR	Onsite	No
American chaffseed	<i>Schwalbea americana</i>	E	Plant	SE	4	Fort Bragg	NC	Onsite	No
Arkansas darter	<i>Etheostoma cragini</i>	C	Fish	NW	6	Fort Carson	CO	Onsite	No
Arroyo toad	<i>Bufo californicus</i>	E	Amphibian	NW	1	Fort Hunter Liggett	CA	Onsite	No
Aupaka	<i>Isodendrion longifolium</i>	T	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
Bald eagle	<i>Haliaeetus leucocephalus</i>	T	Bird	AMC	1	Hawthorne AAP	NV	Contiguous	No
				AMC	3	Newport Chemical Activity	IN	Contiguous	No
				AMC	3	Rock Island Arsenal	IL	Onsite	No
				AMC	4	Holston AAP	TN	Onsite	No
				AMC	6	Deseret Chemical Depot	UT	Contiguous	No
				ARNG	1	Camp Murray	WA	Onsite	No
				ARNG	1	Camp Rilea	OR	Onsite	No
				ARNG	1	Camp Roberts TS	CA	Onsite	No
				ARNG	1	Stead TS	NV	Onsite	No
				ARNG	2	Camp J.T. Robinson	AR	Contiguous	No
				ARNG	3	Atterbury TS	IN	Onsite	No
				ARNG	3	Camp Crowder	MO	Onsite	No
				ARNG	3	Camp Grayling	MI	Onsite	No
				ARNG	3	Camp Perry	OH	Onsite	No
				ARNG	3	Camp Ripley	MN	Onsite	No
				ARNG	3	Ike Skeleton TS	MO	Onsite	No
ARNG	3	Macon TS	MO	Onsite	No				
ARNG	3	Truman Reservoir TS	MO	Onsite	No				
ARNG	4	Camp Blanding	FL	Onsite	No				
ARNG	4	Fort Chaffee	AR	Onsite	No				
ARNG	5	Camp Smith TS	NY	Contiguous	No				
ARNG	5	Fort Pickett	VA	Onsite	No				

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Bald eagle (cont'd)	<i>Haliaeetus leucocephalus</i>	T	Bird	ARNG	6	Camp Ashland MTA/OMS 5	NE	Onsite	No
				ARNG	6	Camp Guernsey	WY	Onsite	No
				BRAC	3	Savanna Army Depot	IL	Onsite	No
				BRAC	6	Rocky Mountain Arsenal	CO	Onsite	No
				NE	5	Aberdeen Proving Ground	MD	Onsite	No
				NE	5	Adelphi Army Research Laboratory	MD	Onsite	No
				NE	5	Fort A.P. Hill	VA	Onsite	No
				NE	5	Fort Belvoir	VA	Onsite	No
				NE	5	Fort Dix	NJ	Onsite	No
				NE	5	Fort Eustis	VA	Onsite	No
				NE	5	Picatiny Arsenal	NJ	Contiguous	No
				NE	5	USA CASCOM & Fort Lee	VA	Contiguous	No
				NE	5	West Point Military Reservation	NY	Onsite	No
				NW	1	Fort Lewis	WA	Onsite	No
				NW	1	Yakima Training Center	WA	Onsite	No
				NW	1	Fort Hunter Liggett	CA	Onsite	No
				NW	3	Fort Leonard Wood	MO	Onsite	No
				NW	3	Fort McCoy	WI	Onsite	No
				NW	6	Dugway Proving Ground	UT	Contiguous	No
				NW	6	Fort Carson	CO	Onsite	No
				NW	6	Fort Leavenworth	KS	Onsite	No
				NW	6	Fort Riley	KS	Onsite	No
				SE	4	Fort Benning	GA	Onsite	No
				SE	4	Fort Gordon	GA	Contiguous	No
				SE	4	Fort Knox	KY	Onsite	No
				SE	4	Fort Stewart	GA	Onsite	No
				SE	4	Military Ocean Terminal-Sunny Point	NC	Onsite	No
				SE	4	Redstone Arsenal	AL	Onsite	No
				SW	1	White Sands Missile Range	NM	Onsite	No

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Bald eagle (cont'd)	<i>Haliaeetus leucocephalus</i>	T	Bird	SW	2	Fort Bliss	TX	Onsite	No
				SW	2	Fort Hood	TX	Onsite	No
Basalt daisy	<i>Erigeron basalticus</i>	C	Plant	NW	1	Yakima Training Center	WA	Onsite	No
Black pine snake	<i>Pituophis melanoleucus lodingi</i>	C	Reptile	ARNG	4	Camp Shelby	MS	Onsite	No
Black-capped vireo	<i>Vireo atricapillus</i>	E	Bird	ARNG	2	Camp Bowie	TX	Onsite	No
				SW	2	Fort Hood	TX	Onsite	No
				SW	2	Fort Sam Houston	TX	Onsite	No
Black-tailed prairie dog	<i>Cynomys ludovicianus</i>	C	Mammal	ARNG	6	Fort Harrison	MT	Onsite	No
				ARNG	6	Salina Smokey Hil TA	KS	Contiguous	No
				ARNG	6	Sheridan LTA	WY	Onsite	No
				BRAC	6	Rocky Mountain Arsenal	CO	Onsite	No
				NW	6	Fort Carson	CO	Onsite	No
				NW	6	Pueblo Depot Activity	CO	Onsite	No
				SW	2	Fort Bliss	TX	Onsite	No
SW	2	Fort Sill	OK	Onsite	No				
Bog turtle	<i>Clemmys muhlenbergii</i>	T	Reptile	NE	5	Picatinny Arsenal	NJ	Contiguous	No
Brown pelican	<i>Pelecanus occidentalis</i>	E	Bird	ARNG	1	Camp Rilea	OR	Contiguous	No
Bull Trout	<i>Salvelinus confluentus</i>	T	Fish	NW	1	Fort Lewis	WA	Onsite	No
				NW	1	Yakima Training Center	WA	Contiguous	No
				USAR	1	70TH RRC HQ	WA	Onsite	No
Cactus ferruginous pygmy-owl	<i>Glaucidium brasilianum cactorum</i>	E	Bird	ARNG	2	Florence Military Reservation	AZ	Contiguous	No
Cactus, Kuenzler hedgehog	<i>Echinocereus fendleri var. kuenzleri</i>	E	Plant	SW	2	Fort Bliss	TX	Onsite	No
California condor	<i>Gymnogyps californianus</i>	E	Bird	ARNG	1	Camp Roberts TS	CA	Contiguous	No
				ARNG	1	Camp San Luis Obispo	CA	Contiguous	No
				NW	1	Fort Hunter Liggett	CA	Onsite	No
California red-legged frog	<i>Rana aurora draytonii</i>	T	Amphibian	ARNG	1	Camp San Luis Obispo	CA	Onsite	No
				BRAC	1	Fort Ord	CA	Contiguous	No
				NW	1	Fort Hunter Liggett	CA	Contiguous	No

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California red-legged frog (cont'd)	<i>Rana aurora draytonii</i>	T	Amphibian	NW	1	Parks RFTA	CA	Onsite	No
				USAR	1	63rd RRC HQ	CA	Contiguous	No
California tiger salamander	<i>Ambystoma californiense</i>	T	Amphibian	BRAC	1	Fort Ord	CA	Onsite	No
				NW	1	Fort Hunter Liggett	CA	Onsite	No
				NW	1	Parks RFTA	CA	Onsite	No
				USAR	1	63RD RRC HQ	CA	Onsite	No
Camp Shelby burrowing crayfish	<i>Fallicambarus gordonii</i>	C	Crustacean	ARNG	4	Camp Shelby	MS	Onsite	No
Carson wandering skipper	<i>Pseudocopaedodes eunus obscurus</i>	E	Insect	AMC	1	Sierra Army Depot	CA	Contiguous	No
Chapman's rhododendron	<i>Rhododendron chapmanii</i>	E	Plant	ARNG	4	Camp Blanding	FL	Onsite	No
Chinook Salmon	<i>Oncorhynchus tshawytscha</i>	E	Fish	NW	1	Fort Lewis	WA	Onsite	No
				NW	1	Yakima Training Center	WA	Onsite	No
				USAR	1	70TH RRC HQ	WA	Onsite	No
Chiricahua leopard frog	<i>Rana chiricahuensis</i>	T	Amphibian	SW	2	Fort Huachuca	AZ	Onsite	No
Chorro Creek bog thistle	<i>Cirsium fontinale var. obispoense</i>	E	Plant	ARNG	1	Camp San Luis Obispo	CA	Onsite	No
Contra Costa goldfields	<i>Lasthenia conjugens</i>	E	Plant	BRAC	1	Fort Ord	CA	Onsite	Yes
Cooley's meadowrue	<i>Thalictrum cooleyii</i>	E	Plant	SE	4	Military Ocean Terminal-Sunny Point	NC	Contiguous	No
Desert tortoise	<i>Gopherus agassizii</i>	T	Reptile	ARNG	1	Clark County TA	NV	Contiguous	No
			Reptile	SW	1	Fort Irwin	CA	Onsite	Yes
			Reptile	ARNG	1	Stead TS	NV	Onsite	No
			T(S/A) Reptile	ARNG	2	Florence Military Reservation	AZ	Onsite	No
Diamond Head schiedea	<i>Schiedea adamantis</i>	E	Plant	ARNG	1	Fort Ruger	HI	Onsite	No
Duck, Hawaiian (=koloa)	<i>Anas wyvilliana</i>	E	Bird	ARNG	1	Fort Ruger	HI	On-Site	No
				ARNG	1	Ukumehame	HI	On-Site	No
Dwarf bear-poppy	<i>Arctomecon humilis</i>	E	Plant	ARNG	6	St. George UT OMS 10B	UT	Onsite	No
Eastern indigo snake	<i>Drymarchon corais couperi</i>	T	Reptile	ARNG	4	Camp Blanding	FL	Onsite	No
				SE	4	Fort Stewart	GA	Onsite	No
Eastern massasauga	<i>Sistrurus catenatus catenatus</i>	C	Reptile	ARNG	3	Camp Grayling	MI	Onsite	No
Eggert's sunflower	<i>Helianthus eggertii</i>	T	Plant	ARNG	4	Tulahoma TS	TN	Onsite	No

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Flatwoods salamander	<i>Ambystoma cingulatum</i>	T	Amphibian	SE	4	Fort Stewart	GA	Onsite	No
Florida panther	<i>Puma concolor coryi</i>	E	Mammal	ARNG	4	Camp Blanding	FL	Onsite	No
Florida scrub jay	<i>Aphelocoma coerulescens</i>	T	Bird	ARNG	4	Camp Blanding	FL	Onsite	No
Golden-cheeked warbler	<i>Dendroica chrysoparia</i>	E	Bird	ARNG	2	Fredericksburg Armory	TX	Onsite	No
				SW	2	Fort Hood	TX	Onsite	No
				SW	2	Fort Sam Houston	TX	Onsite	No
Gopher tortoise	<i>Gopherus polyphemus</i>	T	Reptile	ARNG	4	Camp Shelby	MS	Onsite	No
Gray bat	<i>Myotis grisescens</i>	E	Mammal	AMC	4	Holston AAP	TN	Onsite	No
				ARNG	4	Fort McClellan	AL	Onsite	No
				ARNG	4	Tulahoma TS	TN	Contiguous	No
				BRAC	3	Indiana AAP	IN	Onsite	No
				NW	3	Fort Leonard Wood	MO	Onsite	No
				SE	4	Fort Campbell	KY	Onsite	No
				SE	4	Fort Knox	KY	Onsite	No
Gray wolf	<i>Canis lupus</i>	T	Mammal	ARNG	3	Camp Ripley	MN	Onsite	No
				NW	3	Fort McCoy	WI	Onsite	No
Greater sage grouse	<i>Centrocercus urophasianus phaios</i>	C	Bird	NW	1	Yakima Training Center	WA	Onsite	No
Green sea turtle	<i>Chelonia mydas</i>	T	Reptile	SE	4	Military Ocean Terminal-Sunny Point	NC	Contiguous	No
Greenback cutthroat trout	<i>Oncorhynchus clarki stomias</i>	T	Fish	NW	6	Fort Carson	CO	Onsite	No
Ground beetle	<i>Rhadine exilis</i>	E	Insect	SW	2	Fort Sam Houston	TX	Onsite	No
Ground beetle	<i>Rhadine infernalis</i>	E	Insect	SW	2	Fort Sam Houston	TX	Onsite	No
Ha`iwale	<i>Cyrtandra dentata</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
Ha`iwale	<i>Cyrtandra subumbellata</i>	E	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
Ha`iwale	<i>Cyrtandra viridiflora</i>	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
Haha	<i>Cyanea acuminata</i>	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
Haha	<i>Cyanea humboldtiana</i>	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
Haha	<i>Cyanea koolauensis</i>	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No

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Haha	<i>Cyanea koolauensis (cont'd)</i>	E	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
Haha	<i>Cyanea lanceolata</i>	C	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
Haha	<i>Cyanea st-johnii</i>	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
Haha	<i>Cyanea superba</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
Hala pepe	<i>Pleomele forbesii</i>	C	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
Harperella	<i>Ptilimnium nodosum</i>	E	Plant	ARNG	5	BG Thomas B. Baker TS (formerly Lil Aaron Strauss)	MD	Onsite	No
Hawaiian common moorhen	<i>Gallinula chloropus sandvicensis</i>	E	Bird	ARNG	1	Fort Ruger	HI	Onsite	No
				ARNG	1	Ukumehame Firing Range	HI	Onsite	No
Hawaiian coot	<i>Fulica americana alai</i>	E	Bird	ARNG	1	Fort Ruger	HI	Onsite	No
				ARNG	1	Ukumehame Firing Range	HI	Onsite	No
Hawaiian dark-rumped petrel	<i>Pterodroma phaeopygia sandwichensis</i>	E	Bird	PAC	1	Pohakuloa TA	HI	Onsite	No
Hawaiian goose	<i>Branta sandvicensis</i>	E	Bird	ARNG	1	Ukumehame Firing Range	HI	Onsite	No
				PAC	1	Pohakuloa TA	HI	Onsite	No
Hawaiian hawk	<i>Buteo solitarius</i>	E	Bird	ARNG	1	Hilo (Keaukaha Military Reserv)	HI	Onsite	No
				PAC	1	Pohakuloa TA	HI	Onsite	No
Hawaiian hoary bat	<i>Lasiurus cinereus semotus</i>	E	Mammal	ARNG	1	Hilo (Keaukaha Military Re	HI	Onsite	No
				PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Makua Military Reservation	HI	Onsite	No
				PAC	1	Pohakuloa TA	HI	Onsite	No
Hawaiian stilt	<i>Himantopus mexicanus knudseni</i>	E	Bird	ARNG	1	Kekaha WETS	HI	Onsite	No
				ARNG	1	Ukumehame Firing Range	HI	Onsite	No
Higgins Eye pearlymussel	<i>Lampsilis higginsii</i>	E	Clam	BRAC	3	Savanna Army Depot	IL	Onsite	No
Honohono	<i>Haplostachys haplostachya</i>	E	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No
Houghton's goldenrod	<i>Solidago houghtonii</i>	T	Plant	ARNG	3	Camp Grayling	MI	Onsite	No
Huachuca springsnail	<i>Pyrgulopsis thompsoni</i>	C	Snail	SW	2	Fort Huachuca	AZ	Onsite	No
Huachuca water-umbel	<i>Lilaeopsis schaffneriana var. recurva</i>	E	Plant	SW	2	Fort Huachuca	AZ	Onsite	Yes

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Hulumoa	<i>Korthalsella degeneri</i>	C	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No		
Indiana bat	<i>Myotis sodalis</i>	E	Mammal	AMC	3	Iowa AAP	IA	Onsite	No		
				AMC	3	Newport Chemical Activity	IN	Onsite	No		
				ARNG	3	Atterbury TS	IN	Onsite	No		
				ARNG	3	Macon TS	MO	Contiguous	No		
				BRAC	3	Jefferson Proving Ground	IN	Onsite	No		
				NE	5	Picatinny Arsenal	NJ	Onsite	No		
				NW	3	Fort Leonard Wood	MO	Onsite	No		
				SE	4	Fort Campbell	KY	Onsite	No		
				SE	4	Fort Knox	KY	Onsite	No		
				SE	4	Redstone Arsenal	AL	Contiguous	No		
Kamakahala	<i>Labordia cyrtandrae</i>	E	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No		
Kamanomano	<i>Cenchrus agrimonioides</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No		
Kampua`a	<i>Hedyotis fluviatilis</i>	C	Plant	PAC	1	Kawailoa TA	HI	Onsite	No		
Karner blue butterfly	<i>Lycaeides melissa samuelis</i>	E	Insect	ARNG	5	NH State Military Reservation	NH	Contiguous	No		
				NW	3	Fort McCoy	WI	Onsite	No		
Kaulu	<i>Pteralyxia macrocarpa</i>	C	Plant	PAC	1	Kahuku TA	HI	Onsite	No		
				PAC	1	Makua Military Reservation	HI	Onsite	No		
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No		
Kemp's ridley sea turtle	<i>Lepidochelys kempii</i>	E	Reptile	SE	4	Military Ocean Terminal-Sunny Point	NC	Contiguous	No		
Kincaid's Lupine	<i>Lupinus sulphureus</i> var. <i>kincaidii</i>	T	Plant	ARNG	1	Corvallis or Camp Adair	OR	Onsite	No		
Kio`ele	<i>Hedyotis coriacea</i>	E	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No		
Kirtland's warbler	<i>Dendroica kirtlandii</i>	E	Bird	ARNG	3	Camp Grayling	MI	Onsite	No		
Kolea	<i>Myrsine fosbergii</i>	C	Plant	PAC	1	Kawailoa TA	HI	Onsite	No		
Kolea	<i>Myrsine juddii</i>	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No		
Kopiko	<i>Psychotria hexandra oahuensis</i>	C	Plant	PAC	1	Kawailoa TA	HI	Onsite	No		
Kuahiwi laukahi	<i>Plantago princeps</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No		
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No		
Kulu`i	<i>Nototrichium humile</i>	E	Plant	PAC	1	Dillingham Military Reservation	HI	Contiguous	No		

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Kulu`i (cont'd)	<i>Nototrichium humile</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
Lahontan cutthroat trout	<i>Oncorhynchus clarki henshawi</i>	T	Fish	AMC	1	Hawthorne AAP	NV	Contiguous	No
Lane Mountain milk-vetch	<i>Astragalus jaegerianus</i>	E	Plant	SW	1	Fort Irwin	CA	Onsite	No
Large-flowered skullcap	<i>Scutellaria montana</i>	T	Plant	ARNG	4	Catoosa Range/TS	TN	Onsite	No
Lau `ehu	<i>Panicum niihauense</i>	E	Plant	ARNG	1	Kekaha WETS	HI	Onsite	No
Least Bell's vireo	<i>Vireo bellii pusillus</i>	E	Bird	ARNG	1	Camp Roberts TS	CA	Contiguous	No
					1	Camp San Luis Obispo	CA	Contiguous	No
					1	Fort Hunter Liggett	CA	Contiguous	No
Least tern	<i>Sterna antillarum</i>	E	Bird	ARNG	3	Ike Skeleton TS	MO	Contiguous	No
					6	Fort Riley	KS	Onsite	No
Leatherback sea turtle	<i>Dermochelys coriacea</i>	E	Reptile	SE	4	Military Ocean Terminal-Sunny Point	NC	Contiguous	No
Lemmon fleabane	<i>Erigeron lemmonii</i>	C	Plant	SW	2	Fort Huachuca	AZ	Onsite	No
Lesser long-nosed bat	<i>Leptonycteris curasoae yerbabuena</i>	E	Mammal	SW	2	Fort Huachuca	AZ	Onsite	No
Loach minnow	<i>Tiaroga cobitis</i>	T	Fish	SW	2	Fort Huachuca	AZ	Contiguous	No
Loggerhead sea turtle	<i>Caretta caretta</i>	T	Reptile	SE	4	Military Ocean Terminal-Sunny Point	NC	Contiguous	No
Louisiana pine snake	<i>Pituophis ruthveni</i>	C	Reptile	SW	4	Fort Polk	LA	Onsite	No
Louisiana quillwort	<i>Isoetes louisianensis</i>	E	Plant	ARNG	4	Camp Shelby	MS	Onsite	No
Lo'ulu	<i>Pritchardia kaalae</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
Ma`o hau hele	<i>Hibiscus brackenridgei</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
Ma`oli`oli	<i>Schiedea kealiae</i>	E	Plant	PAC	1	Dillingham Military Reservation	HI	Onsite	No
Madla's Cave Meshweaver	<i>Cicurina madla</i>	E	Arachnid	SW	2	Fort Sam Houston	TX	Onsite	No
Mahoe	<i>Alectryon macrococcus</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
					1	Schofield Barracks Military Reservation	HI	Onsite	No
Marbled murrelet	<i>Brachyramphus marmoratus marmoratus</i>	T	Bird	ARNG	1	Camp Rilea	OR	Contiguous	No
					1	Fort Lewis	WA	Contiguous	No
Mardon skipper	<i>Polites mardon</i>	C	Insect	NW	1	Fort Lewis	WA	Onsite	No
Maryland darter	<i>Etheostoma sellare</i>	E	Fish	NE	5	Aberdeen Proving Ground	MD	Contiguous	No
Mazama pocket gopher	<i>Thomomys mazama</i>	C	Mammal	NW	1	Fort Lewis	WA	Onsite	No
Mehamehame	<i>Flueggea neowawraea</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No

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Mehamehame (cont'd)	<i>Flueggea neowawraea</i>	E	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
Mexican spotted owl	<i>Strix occidentalis lucida</i>	T	Bird	ARNG	2	Camp Navajo	AZ	Onsite	Yes
				NW	6	Fort Carson	CO	Onsite	No
				SW	1	Fort Huachuca	AZ	Onsite	No
				SW	1	White Sands Missile Range	NM	Contiguous	No
Michaux's sumac	<i>Rhus michauxii</i>	E	Plant	ARNG	5	Fort Pickett	VA	Onsite	No
				SE	4	Fort Bragg	NC	Onsite	No
Mohr's Barbara button	<i>Marshallia mohrii</i>	T	Plant	ARNG	4	Fort McClellan	AL	Onsite	No
Monterey gilia	<i>Gilia tenuiflora</i> ssp. <i>arenaria</i>	E	Plant	BRAC	1	Fort Ord	CA	Onsite	No
Monterey spineflower	<i>Chorizanthe pungens</i> var. <i>pungens</i>	T	Plant	BRAC	1	Fort Ord	CA	Onsite	Yes
				USAR	1	63RD RRC HQ	CA	Onsite	No
Morro shoulderband snail	<i>Helminthoglypta walkeriana</i>	E	Snail	ARNG	1	Camp San Luis Obispo	CA	Onsite	No
Na`ena`e	<i>Dubautia herbstobatae</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
Nanu	<i>Gardenia mannii</i>	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
Nehe	<i>Lipochaeta tenuifolia</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
Nelson's checker-mallow	<i>Sidalcea nelsoniana</i>	T	Plant	ARNG	1	Corvallis or Camp Adair	OR	Onsite	No
Nichol's Turk's head cactus	<i>Echinocactus horizontalionius</i> var. <i>nicholii</i>	E	Plant	SW	2	Yuma Proving Grounds	AZ	Onsite	No
Nioi	<i>Eugenia koolauensis</i>	E	Plant	PAC	1	Kahuku TA	HI	Onsite	No
None	<i>Alsindendron obovatum</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
None	<i>Alsindendron trinerve</i>	E	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
None	<i>Asplenium fragile</i> var. <i>insulare</i>	E	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No
None	<i>Bonamia menziesii</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
None	<i>Christella boydiae</i>	C	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
None	<i>Cyanea crispa</i>	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
None	<i>Diellia falcata</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
None	<i>Festuca hawaiiensis</i>	C	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No

Common Name	Scientific Name (Genus, species)	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
None	<i>Hedyotis degeneri</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
None	<i>Hedyotis parvula</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
None	<i>Hesperomannia arborescens</i>	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
None	<i>Lobelia gaudichaudii</i> ssp. <i>koolauensis</i>	E	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
None	<i>Lobelia niihauensis</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
None	<i>Lobelia oahuensis</i>	E	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
None	<i>Neraudia angulata</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
None	<i>Neraudia ovata</i>	E	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No
None	<i>Phyllostegia hirsuta</i>	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
None	<i>Phyllostegia mollis</i>	E	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
None	<i>Platydesma cornuta cornuta</i>	C	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
None	<i>Platydesma cornuta decurrens</i>	C	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
None	<i>Pteris lidgatei</i>	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
None	<i>Sanicula mariversa</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
None	<i>Sanicula purpurea</i>	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
None	<i>Schiedea hookeri</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
None	<i>Schiedea nuttallii</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
None	<i>Silene hawaiiensis</i>	T	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No
None	<i>Silene lanceolata</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
				PAC	1	Pohakuloa TA	HI	Onsite	No
None	<i>Spermolepis hawaiiensis</i>	E	Plant	ARNG	1	Fort Ruger	HI	Onsite	No
				PAC	1	Makua Military Reservation	HI	Onsite	No
				PAC	1	Pohakuloa TA	HI	Onsite	No
None	<i>Stenogyne angustifolia</i> var. <i>angustifolia</i>	E	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No

Common Name	Scientific Name (Genus, species)	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
None	<i>Tetramolopium arenarium</i>	E	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No
None	<i>Tetramolopium filiforme</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
None	<i>Viola oahuensis</i>	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
Northern aplomado falcon	<i>Falco femoralis septentrionalis</i>	E	Bird	SW	2	Fort Bliss	TX	Onsite	No
				SW	2	White Sands Missile Range	NM	Onsite	No
Northern spotted owl	<i>Strix occidentalis caurina</i>	T	Bird	ARNG	1	Camp Rilea	OR	Contiguous	No
				ARNG	1	Corvalis or Camp Adair	OR	Contiguous	No
				NW	1	Fort Lewis	WA	Contiguous	Yes
O'ahu 'elepaio	<i>Chasiempis sandwichensis ibidis</i>	E	Bird	PAC	1	Kawailoa TA	HI	Contiguous	Yes
				PAC	1	Makua Military Reservation	HI	Onsite	Yes
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	Yes
Opuhe	<i>Urera kaalae</i>	E	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
Orangeblack Hawaiian damselfly	<i>Megalagrion xanthomelas</i>	C	Insect	PAC	1	Tripler Army Med Center	HI	Onsite	No
Oregon silverspot butterfly	<i>Speyeria zerene hippolyta</i>	T	Insect	ARNG	1	Camp Rilea	OR	Onsite	No
Ozark cavefish	<i>Amblyopsis rosae</i>	T	Fish	ARNG	3	Camp Crowder	MO	Contiguous	No
Palila	<i>Loxioides bailleui</i>	E	Bird	PAC	1	Pohakuloa TA	HI	Onsite	Yes
Palo de rosa	<i>Ottoschulzia rhodoxylon</i>	E	Plant	SE	4	Fort Buchanan	PR	Onsite	No
Pamakani	<i>Viola chamissoniana</i> ssp. <i>chamissoniana</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
Pauoa	<i>Ctenitis squamigera</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
Piping plover	<i>Charadrius melodus</i>	T	Bird	ARNG	6	Camp Grafton	ND	Onsite	No
				ARNG	6	Garrison TS	ND	Contiguous	No
				ARNG	5	Sea Girt TS	NJ	Onsite	No
				NW	6	Fort Riley	KS	Onsite	No
				SE	4	Military Ocean Terminal-Sunny Point	NC	Contiguous	No
Po'e	<i>Portulaca sclerocarpa</i>	E	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No
Popolo ku mai	<i>Solanum incompletum</i>	E	Plant	PAC	1	Pohakuloa TA	HI	Onsite	No
Preble's meadow jumping mouse	<i>Zapus hudsonius preblei</i>	T	Mammal	NW	6	Fort Carson	CO	Contiguous	No
Price's potato-bean	<i>Apios priceana</i>	T	Plant	SE	4	Redstone Arsenal	AL	Onsite	No

Common Name	Scientific Name (Genus, species)	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
Pu`uka`a	<i>Cyperus trachysanthos</i>	E	Plant	ARNG	1	Fort Ruger	HI	Onsite	Yes
Puerto Rican boa	<i>Epicrates inornatus</i>	E	Reptile	SE	4	Fort Buchanan	PR	Onsite	No
Pupu kuahiwi	<i>Achatinella apexfulva</i>	E	Snail	PAC	1	Kawailoa TA	HI	Onsite	No
Pupu kuahiwi	<i>Achatinella byronii</i>	E	Snail	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
Pupu kuahiwi	<i>Achatinella curta</i>	E	Snail	PAC	1	Kawailoa TA	HI	Onsite	No
Pupu kuahiwi	<i>Achatinella decipiens</i>	E	Snail	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
Pupu kuahiwi	<i>Achatinella leucorraphe</i>	E	Snail	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
Pupu kuahiwi	<i>Achatinella lila</i>	E	Snail	PAC	1	Kawailoa TA	HI	Onsite	No
Pupu kuahiwi	<i>Achatinella livida</i>	E	Snail	PAC	1	Kawailoa TA	HI	Onsite	No
Pupu kuahiwi	<i>Achatinella mustelina</i>	E	Snail	PAC	1	Makua Military Reservation	HI	Onsite	No
Pupu kuahiwi	<i>Achatinella pulcherrima</i>	E	Snail	PAC	1	Kawailoa TA	HI	Onsite	No
Pupu kuahiwi	<i>Achatinella sowerbyana</i>	E	Snail	PAC	1	Kawailoa TA	HI	Onsite	No
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
Purple amole	<i>Chlorogalum purpureum</i>	T	Plant	ARNG	1	Camp Roberts TS	CA	Onsite	No
				NW	1	Fort Hunter Liggett	CA	Onsite	No
Red-cockaded woodpecker	<i>Picoides borealis</i>	E	Bird	ARNG	4	Camp Beauregard	LA	Contiguous	No
				ARNG	4	Camp Blanding	FL	Onsite	No
				ARNG	4	Camp Shelby	MS	Contiguous	No
				ARNG	4	Leesburg TS	SC	Onsite	No
				SE	4	Fort Benning	GA	Onsite	No
				SE	4	Fort Bragg	NC	Onsite	No
				SE	4	Fort Gordon	GA	Onsite	No
				SE	4	Fort Jackson	SC	Onsite	No
				SE	4	Fort Stewart	GA	Onsite	No
				SE	4	Military Ocean Terminal-Sunny Point	NC	Onsite	No

Common Name	Scientific Name (Genus, species)	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
Red-cockaded woodpecker (cont'd)	<i>Picooides borealis</i>	E	Bird	SW	4	Fort Polk	LA	Onsite	No
Relict trillium	<i>Trillium reliquum</i>	E	Plant	SE	4	Fort Benning	GA	Onsite	No
Roanoke logperch	<i>Percina rex</i>	E	Fish	ARNG	5	Fort Pickett	VA	Onsite	No
Rough-leaved loosestrife	<i>Lysimachia asperulaefolia</i>	E	Plant	ARNG	4	Leesburg TS	SC	Onsite	No
				SE	4	Fort Bragg	NC	Onsite	No
				SE	4	Fort Jackson	SC	Onsite	No
				SE	4	Military Ocean Terminal-Sunny Point	NC	Onsite	No
Running buffalo clover	<i>Trifolium stoloniferum</i>	E	Plant	AMC	4	Blue Grass Army Depot	KY	Onsite	No
Saint Francis' satyr butterfly	<i>Neonympha mitchellii francisci</i>	E	Insect	SE	4	Fort Bragg	NC	Onsite	No
San Clemente loggerhead shrike	<i>Lanius ludovicianus mearnsi</i>	E	Bird	USAR	1	63rd RRC HQ	CA	Contiguous	No
San Joaquin kit fox	<i>Vulpes macrotis mutica</i>	E	Mammal	ARNG	1	Camp Roberts TS	CA	Onsite	No
				NW	1	Fort Hunter Liggett	CA	Contiguous	No
				NW	1	Parks RFTA	CA	Contiguous	No
Santa Cruz tarplant	<i>Holocarpha macradenia</i>	T	Plant	ARNG	1	Santa Cruz Armory	CA	Onsite	Yes
Seabeach amaranth	<i>Amaranthus pumilus</i>	T	Plant	ARNG	5	Sea Girt TS	NJ	Onsite	No
Shortnose sturgeon	<i>Acipenser brevirostrum</i>	E	Fish	ARNG	5	Camp Smith TS	NY	Contiguous	No
				NE	5	Aberdeen Proving Ground	MD	Onsite	No
				NE	5	West Point Military Reservation	NY	Onsite	No
				SE	4	Fort Stewart	GA	Onsite	No
				SE	4	Military Ocean Terminal-Sunny Point	NC	Contiguous	No
Small whorled pogonia	<i>Isotria medeoloides</i>	T	Plant	ARNG	5	NHNG TS	NH	Contiguous	No
				NE	5	Fort A.P. Hill	VA	Onsite	No
				NE	5	Fort Belvoir	VA	Contiguous	No
Smith's blue butterfly	<i>Euphilotes enoptes smitthi</i>	E	Insect	BRAC	1	Fort Ord	CA	Onsite	No
Smooth coneflower	<i>Echinacea laevigata</i>	E	Plant	ARNG	4	Leesburg TS	SC	Onsite	No
				SE	4	Fort Jackson	SC	Onsite	No
Sneed pincushion cactus	<i>Coryphantha sneedii</i> var. <i>sneedii</i>	E	Plant	SW	2	Fort Bliss	TX	Onsite	No
Sonoran tiger salamander	<i>Ambystoma tigrinum stebbinsi</i>	E	Amphibian	SW	2	Fort Huachuca	AZ	Onsite	No
Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	E	Bird	SW	2	Fort Huachuca	AZ	Contiguous	No

Common Name	Scientific Name (Genus, species)	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
Southwestern willow flycatcher (cont'd)	<i>Empidonax traillii extimus</i>	E	Bird	SW	2	White Sands Missile Range	NM	Contiguous	No
Spectacled eider	<i>Somateria fischeri</i>	T	Bird	ARNG	7	Elim Armory	AK	Contiguous	No
						Shaktoolik Armory	AK	Contiguous	Yes
						St. Michael Armory	AK	Contiguous	No
						Stebbins Armory	AK	Contiguous	Yes
						Unalakleet Armory	AK	Contiguous	Yes
Spikedace	<i>Meda fulgida</i>	T	Fish	SW	2	Fort Huachuca	AZ	Contiguous	No
Steelhead	<i>Oncorhynchus mykiss</i>	T	Fish	ARNG	1	Camp Roberts TS	CA	Onsite	No
						Camp San Luis Obispo	CA	Onsite	No
						Yakima Training Center	WA	Onsite	No
Steller's eider	<i>Polysticta stelleri</i>	T	Bird	ARNG	7	Chevak Armory	AK	Contiguous	No
						Kwigillingok Armory	AK	Contiguous	No
Stephens' kangaroo rat	<i>Dipodomys stephensi</i> (incl. <i>D. cascus</i>)	E	Mammal	USAR	1	63rd RRC HQ	CA	Contiguous	No
Streaked horned lark	<i>Eremophila alpestris strigata</i>	C	Bird	NW	1	Fort Lewis	WA	Onsite	No
Swamp pink	<i>Helonias bullata</i>	T	Plant	NE	5	Fort A.P. Hill	VA	Onsite	No
Taylor's checkerspot butterfly	<i>Euphydryas editha taylori</i>	C	Insect	NW	1	Fort Lewis	WA	Onsite	No
Tennessee yellow-eyed grass	<i>Xyris tennesseensis</i>	E	Plant	AMC	4	Anniston Army Depot	AL	Onsite	No
						Fort McClellan	AL	Onsite	No
Todsens pennyroyal	<i>Hedeoma todsenii</i>	E	Plant	SW	2	White Sands Missile Range	NM	Onsite	Yes
Topeka shiner	<i>Notropis topeka</i>	E	Fish	NW	6	Fort Riley	KS	Onsite	No
Utah prairie dog	<i>Cynomys parvidens</i>	T	Mammal	ARNG	6	Cedar City Armory UT OMS 10C	UT	Contiguous	No
Ute ladies'-tresses	<i>Spiranthes diluvialis</i>	T	Plant	NW	6	Fort Carson	CO	Contiguous	No
Valley elderberry longhorn beetle	<i>Desmocerus californicus dimorphus</i>	E	Insect	AMC	1	Riverbank AAP	CA	Contiguous	No
Vernal pool fairy shrimp	<i>Branchinecta lynchi</i>	T	Crustacean	ARNG	1	Camp Roberts TS	CA	Onsite	No
						Fort Hunter Liggett	CA	Onsite	No
Water howellia	<i>Howellia aquatilis</i>	T	Plant	NW	1	Fort Lewis	WA	Onsite	No
Wawae'iole	<i>Lycopodium nutans</i>	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
						Schofield Barracks Military Reservation	HI	Onsite	No
West Indian manatee	<i>Trichechus manatus</i>	E	Mammal	SE	4	Military Ocean Terminal-Sunny Point	NC	Contiguous	No

Common Name	Scientific Name (Genus, species)	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
Western snowy plover	<i>Charadrius alexandrinus nivosus</i>	T	Bird	ARNG	1	Camp Rilea	OR	Contiguous	No
				BRAC	1	Fort Ord	CA	Onsite	Yes
Whooping crane	<i>Grus americana</i>	E	Bird	ARNG	6	Hastings TS/UTES 1	NE	Contiguous	No
				SW	2	Fort Hood	TX	Onsite	No
Wood stork	<i>Mycteria americana</i>	E	Bird	ARNG	4	Camp Blanding	FL	Onsite	No
				SE	4	Fort Benning	GA	Onsite	No
				SE	4	Fort Gordon	GA	Contiguous	No
				SE	4	Fort Stewart	GA	Onsite	No
Yadon's piperia	<i>Piperia yadonii</i>	E	Plant	SW	1	Presidio of Monterey	CA	Onsite	No
Yellow-billed cuckoo	<i>Coccyzus americanus</i>	C	Bird	SW	2	Fort Huachuca	AZ	Onsite	No
				SW	2	White Sands Missile Range	NM	Onsite	No

Appendix D: Installations with T&E Species Onsite

TIM Region/ MACOM	Installation	State	TIM Region/ MACOM	Installation	State
AMC	Holston AAP	TN	ARNG	Camp Roberts TS	CA
AMC	Lonestar AAP	TX	ARNG	Camp San Luis Obispo	CA
AMC	McAlester AAP	OK	ARNG	Camp Shelby	MS
AMC	Pine Bluff Arsenal	AR	ARNG	Catoosa Range/TS	TN
AMC	Iowa AAP	IA	ARNG	Corvallis or Camp Adair	OR
AMC	Newport Chemical Activity	IN	ARNG	Florence Military Reservation	AZ
AMC	Rock Island Arsenal	IL	ARNG	Fort Chaffee	AR
AMC	Anniston Army Depot	AL	ARNG	Fort McClellan	AL
AMC	Blue Grass Army Depot	KY	ARNG	Fort Pickett	VA
ARNG	Atterbury TS	IN	ARNG	Fort Ruger	HI
ARNG	BG Thomas B. Baker TS (formerly Lil Aaron Strauss)	MD	ARNG	Fredericksburg Armory	TX
ARNG	Camp Ashland MTA/OMS 5	NE	ARNG	Hilo (Keaukaha Military Reserv)	HI
ARNG	Camp Blanding	FL	ARNG	Ike Skeleton TS	MO
ARNG	Camp Bowie	TX	ARNG	Kekaha WETS	HI
ARNG	Camp Crowder	MO	ARNG	Leesburg TS	SC
ARNG	Camp Grafton	ND	ARNG	Macon TS	MO
ARNG	Camp Grayling	MI	ARNG	Santa Cruz Armory	CA
ARNG	Camp Gruber TS	OK	ARNG	Sea Girt TS	NJ
ARNG	Camp Guernsey	WY	ARNG	St. George UT OMS 10B	UT
ARNG	Camp Maxey	TX	ARNG	Stead TS	NV
ARNG	Camp Murray	WA	ARNG	Truman Reservoir TS	MO
ARNG	Camp Navajo	AZ	ARNG	Tullahoma TS	TN
ARNG	Camp Perry	OH	ARNG	Ukumehame	HI
ARNG	Camp Rilea	OR	BRAC	Fort Ord	CA
ARNG	Camp Ripley	MN	BRAC	Indiana AAP	IN

TIM Region/ MACOM	Installation	State	TIM Region/ MACOM	Installation	State
BRAC	Jefferson Proving Ground	IN	PAC	Pohakuloa TA	HI
BRAC	Longhorn AAP	TX	PAC	Schofield Barracks Military Reservation	HI
BRAC	Rocky Mountain Arsenal	CO	SE	Fort Benning	GA
BRAC	Savanna Army Depot	IL	SE	Fort Bragg	NC
NE	Aberdeen Proving Ground	MD	SE	Fort Buchanan	PR
NE	Adelphi Army Research Laboratory	MD	SE	Fort Campbell	KY
NE	Fort A.P. Hill	VA	SE	Fort Gordon	GA
NE	Fort Belvoir	VA	SE	Fort Jackson	SC
NE	Fort Dix	NJ	SE	Fort Knox	KY
NE	Fort Eustis	VA	SE	Fort Rucker	AL
NE	Picatinny Arsenal	NJ	SE	Fort Stewart	GA
NE	West Point Military Reservation	NY	SE	Military Ocean Terminal-Sunny Point	NC
NW	Fort Carson	CO	SE	Redstone Arsenal	AL
NW	Fort Hunter Liggett	CA	SW	Fort Bliss	TX
NW	Fort Leavenworth	KS	SW	Fort Hood	TX
NW	Fort Leonard Wood	MO	SW	Fort Huachuca	AZ
NW	Fort Lewis	WA	SW	Fort Irwin	CA
NW	Fort McCoy	WI	SW	Fort Polk	LA
NW	Fort Riley	KS	SW	Fort Sam Houston	TX
NW	Parks RFTA	CA	SW	Fort Sill	OK
NW	Yakima TC	WA	SW	Presidio of Monterey	CA
PAC	Dillingham Military Reservation	HI	SW	White Sands Missile Range	NM
PAC	Kahuku TA	HI	SW	Yuma Proving Grounds	AZ
PAC	Kawailoa TA	HI	USAR	63rd RRC HQ	CA
PAC	Makua Military Reservation	HI	USAR	70th RRC HQ	CA

Appendix E: T&E Species found on Army Installations

Scientific Name (Genus, species)	Common Name	Federal Listing Status	Scientific Name (Genus, species)	Common Name	Federal Listing Status
<i>Achatinella apexfulva</i>	Pupu kuahiwi	E	<i>Astragalus jaegerianus</i>	Lane Mountain milk- vetch	E
<i>Achatinella byronii</i>	Pupu kuahiwi	E	<i>Bonamia menziesii</i>	None	E
<i>Achatinella curta</i>	Pupu kuahiwi	E	<i>Branchinecta lynchi</i>	Vernal pool fairy shrimp	T
<i>Achatinella decipiens</i>	Pupu kuahiwi	E	<i>Branta sandvicensis</i>	Hawaiian goose	E
<i>Achatinella leucorraphe</i>	Pupu kuahiwi	E	<i>Bufo californicus</i>	Arroyo toad	E
<i>Achatinella lila</i>	Pupu kuahiwi	E	<i>Buteo solitarius</i>	Hawaiian hawk	E
<i>Achatinella livida</i>	Pupu kuahiwi	E	<i>Canis lupus</i>	Gray wolf	T
<i>Achatinella mustelina</i>	Pupu kuahiwi	E	<i>Cenchrus agrimonioides</i>	Kamanomano	E
<i>Achatinella pulcherrima</i>	Pupu kuahiwi	E	<i>Chamaesyce celastroides</i> var. <i>kaenana</i>	`Akoko	E
<i>Achatinella sowerbyana</i>	Pupu kuahiwi	E	<i>Chamaesyce rockii</i>	`Akoko	E
<i>Acipenser brevirostrum</i>	Shortnose sturgeon	E	<i>Charadrius alexandrinus nivosus</i>	Western snowy plover	T
<i>Alectryon macrococcus</i>	Mahoe	E	<i>Charadrius melodus</i>	Piping plover	T
<i>Alligator mississippiensis</i>	American alligator	T(S/A)	<i>Chasiempis sandwichensis ibidis</i>	O'ahu 'elepaio	E
<i>Alsinidendron obovatum</i>	None	E	<i>Chlorogalum purpureum</i>	Purple amole	T
<i>Alsinidendron trinerve</i>	None	E	<i>Chorizanthe pungens</i> var. <i>pungens</i>	Monterey spineflower	T
<i>Amaranthus pumilus</i>	Seabeach amaranth	T	<i>Cicurina madla</i>	Madla's Cave Meshweaver	E
<i>Ambystoma californiense</i>	California tiger salamander	T	<i>Cirsium fontinale</i> var. <i>obispoense</i>	Chorro Creek bog thistle	E
<i>Ambystoma cingulatum</i>	Flatwoods salamander	T	<i>Coryphantha sneedii</i> var. <i>sneedii</i>	Sneed pincushion cactus	E
<i>Ambystoma tigrinum stebbinsi</i>	Sonoran tiger salamander	E	<i>Ctenitis squamigera</i>	Pauoa	E
<i>Anas wyvilliana</i>	Duck, Hawaiian (=koloa)	E	<i>Cyanea acuminata</i>	Haha	E
<i>Aphelocoma coerulescens</i>	Florida scrub jay	T	<i>Cyanea crispera</i>	None	E
<i>Apios priceana</i>	Price's potato-bean	T	<i>Cyanea humboldtiana</i>	Haha	E
<i>Arctomecon humilis</i>	Dwarf bear-poppy	E	<i>Cyanea koolauensis</i>	Haha	E
<i>Asplenium fragile</i> var. <i>insulare</i>	None	E	<i>Cyanea st-johnii</i>	Haha	E

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<i>Cyanea superba</i>	Haha	E	<i>Gopherus agassizii</i>	Desert tortoise	T
<i>Cyperus trachysanthos</i>	Pu`uka`a	E	<i>Gopherus polyphemus</i>	Gopher tortoise	T
<i>Cyrtandra dentata</i>	Ha`iwale	E	<i>Grus americana</i>	Whooping crane	E
<i>Cyrtandra subumbellata</i>	Ha`iwale	E	<i>Gymnogyps californianus</i>	California condor	E
<i>Cyrtandra viridiflora</i>	Ha`iwale	E	<i>Haliaeetus leucocephalus</i>	Bald eagle	T
<i>Delissea subcordata</i>	`Oha	E	<i>Haplostachys haplostachya</i>	Honohono	E
<i>Dendroica chrysoparia</i>	Golden-cheeked warbler	E	<i>Hedeoma todsenii</i>	Todsen's pennyroyal	E
<i>Dendroica kirtlandii</i>	Kirtland's warbler	E	<i>Hedyotis coriacea</i>	Kio`ele	E
<i>Diellia falcata</i>	None	E	<i>Hedyotis degeneri</i>	None	E
<i>Drymarchon corais couperi</i>	Eastern indigo snake	T	<i>Hedyotis parvula</i>	None	E
<i>Dubautia herbstobatae</i>	Na`ena`e	E	<i>Helianthus eggertii</i>	Eggert's sunflower	T
<i>Echinacea laevigata</i>	Smooth coneflower	E	<i>Helminthoglypta walkeriana</i>	Morro shoulderband snail	E
<i>Echinocactus horizonthalonius var. nicholii</i>	Nichol's Turk's head cactus	E	<i>Helonias bullata</i>	Swamp pink	T
<i>Echinocereus fendleri var. kuenzleri</i>	Cactus, Kuenzler hedgehog	E	<i>Hemignathus munroi</i>	Akiapola`au (honeycreeper)	E
<i>Epicrates inornatus</i>	Puerto Rican boa	E	<i>Hesperomannia arborescens</i>	None	E
<i>Eugenia koolauensis</i>	Nioi	E	<i>Hibiscus brackenridgei</i>	Ma`o hau hele	E
<i>Euphilotes enoptes smitthi</i>	Smith's blue butterfly	E	<i>Himantopus mexicanus knudseni</i>	Hawaiian stilt	E
<i>Euphorbia haeleeleana</i>	`Akoko	E	<i>Holocarpha macradenia</i>	Santa Cruz tarplant	T
<i>Falco femoralis septentrionalis</i>	Northern aplomado falcon	E	<i>Howellia aquatilis</i>	Water howellia	T
<i>Flueggea neowawraea</i>	Mehamehame	E	<i>Isodendron longifolium</i>	Aupaka	T
<i>Fulica americana alai</i>	Hawaiian coot	E	<i>Isoetes louisianensis</i>	Louisiana quillwort	E
<i>Gallinula chloropus sandvicensis</i>	Hawaiian common moorhen	E	<i>Isotria medeoloides</i>	Small whorled pogonia	T
<i>Gardenia mannii</i>	Nanu	E	<i>Labordia cyrtandrae</i>	Kamakahala	E
<i>Gilia tenuiflora ssp. arenaria</i>	Monterey gilia	E	<i>Lampsilis higginsii</i>	Higgins Eye pearlymussel	E

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<i>Lasiurus cinereus semotus</i>	Hawaiian hoary bat	E	<i>Nototrichium humile</i>	Kulu`i	E
<i>Lasthenia conjugens</i>	Contra Costa goldfields	E	<i>Notropis topeka</i>	Topeka shiner	E
<i>Lepidium arbuscula</i>	`Anaunau	E	<i>Oncorhynchus clarki stomias</i>	Greenback cutthroat trout	T
<i>Leptonycteris curasoae yerbabuenae</i>	Lesser long-nosed bat	E	<i>Oncorhynchus mykiss</i>	Steelhead	T
<i>Lilaeopsis schaffneriana</i> var. <i>recurva</i>	Huachuca water-umbel	E	<i>Oncorhynchus tshawytscha</i>	Chinook Salmon	E
<i>Lipochaeta tenuifolia</i>	Nehe	E	<i>Ottoschulzia rhodoxylon</i>	Palo de rosa	E
<i>Lobelia gaudichaudii</i> ssp. <i>koolauensis</i>	None	E	<i>Palaemonias alabamae</i>	Alabama cave shrimp	E
<i>Lobelia niihauensis</i>	None	E	<i>Panicum niihauense</i>	Lau `ehu	E
<i>Lobelia oahuensis</i>	None	E	<i>Percina rex</i>	Roanoke logperch	E
<i>Loxioides bailleui</i>	Palila	E	<i>Phyllostegia hirsuta</i>	None	E
<i>Lupinus sulphureus</i> var. <i>kincaidii</i>	Kincaid's Lupine	T	<i>Phyllostegia mollis</i>	None	E
<i>Lycaeides melissa samuelis</i>	Karner blue butterfly	E	<i>Picoides borealis</i>	Red-cockaded woodpecker	E
<i>Lycopodium nutans</i>	Wawae`iole	E	<i>Piperia yadonii</i>	Yadon's piperia	E
<i>Lysimachia asperulaefolia</i>	Rough-leaved loosestrife	E	<i>Plantago princeps</i>	Kuahiwi laukahi	E
<i>Marshallia mohrii</i>	Mohr's Barbara button	T	<i>Portulaca sclerocarpa</i>	Po`e	E
<i>Melicope lydgatei</i>	Alani	E	<i>Pritchardia kaalae</i>	Lo'ulu	E
<i>Mycteria americana</i>	Wood stork	E	<i>Pteris lidgatei</i>	None	E
<i>Myotis grisescens</i>	Gray bat	E	<i>Pterodroma phaeopygia sandwichensis</i>	Hawaiian dark-rumped petrel	E
<i>Myotis sodalis</i>	Indiana bat	E	<i>Ptilimnium nodosum</i>	Harperella	E
<i>Myrsine juddii</i>	Kolea	E	<i>Puma concolor coryi</i>	Florida panther	E
<i>Neonympha mitchellii francisci</i>	Saint Francis' satyr butterfly	E	<i>Rana aurora draytonii</i>	California red-legged frog	T
<i>Neraudia angulata</i>	None	E	<i>Rana chiricahuensis</i>	Chiricahua leopard frog	T
<i>Neraudia ovata</i>	None	E	<i>Rhadine exilis</i>	Ground beetle	E
<i>Nicrophorus americanus</i>	American burying beetle	E	<i>Rhadine infernalis</i>	Ground beetle	E

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<i>Rhododendron chapmanii</i>	Chapman's rhododendron	E	<i>Trifolium stoloniferum</i>	Running buffalo clover	E
<i>Rhus michauxii</i>	Michaux's sumac	E	<i>Trillium reliquum</i>	Relict trillium	E
<i>Salvelinus confluentus</i>	Bull trout	T	<i>Urera kaalae</i>	Opuhe	E
<i>Sanicula mariversa</i>	None	E	<i>Viola chamissoniana</i> ssp. <i>chamissoniana</i>	Pamakani	E
<i>Sanicula purpurea</i>	None	E	<i>Viola oahuensis</i>	None	E
<i>Schiedea adamantis</i>	Diamond Head schiedea	E	<i>Vireo atricapillus</i>	Black-capped vireo	E
<i>Schiedea hookeri</i>	None	E	<i>Vulpes macrotis mutica</i>	San Joaquin kit fox	E
<i>Schiedea kealiae</i>	Ma`oli`oli	E	<i>Xyris tennesseensis</i>	Tennessee yellow-eyed grass	E
<i>Schiedea nuttallii</i>	None	E	<i>Zanthoxylum hawaiiense</i>	A`e	E
<i>Schwalbea americana</i>	American chaffseed	E			
<i>Scutellaria montana</i>	Large-flowered skullcap	T			
<i>Sidalcea nelsoniana</i>	Nelson's checker-mallow	T			
<i>Silene hawaiiensis</i>	None	T			
<i>Silene lanceolata</i>	None	E			
<i>Solanum incompletum</i>	Popolo ku mai	E			
<i>Solidago houghtonii</i>	Houghton's goldenrod	T			
<i>Spermolepis hawaiiensis</i>	None	E			
<i>Speyeria zerene hippolyta</i>	Oregon silverspot butterfly	T			
<i>Stenogyne angustifolia</i> var. <i>angustifolia</i>	None	E			
<i>Sterna antillarum</i>	Least tern	E			
<i>Strix occidentalis lucida</i>	Mexican spotted owl	T			
<i>Tetramolopium arenarium</i>	None	E			
<i>Tetramolopium filiforme</i>	None	E			
<i>Tetraplasandra gymnocarpa</i>	`Ohe`ohe	E			