

Installation Summaries from the FY 2003 Survey of Threatened and Endangered Species on Army Lands

April 2004

FINAL

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

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REPORT DOCUMENTATION PAGE

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OMB No. 0704-0188

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1. REPORT DATE (DD-MM-YYYY) 30-03-2004	2. REPORT TYPE Final	3. DATES COVERED (From - To)
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4. TITLE AND SUBTITLE Installation Summaries From the 2003 Survey of Threatened and Endangered Species	5a. CONTRACT NUMBER
	5b. GRANT NUMBER
	5c. PROGRAM ELEMENT NUMBER

6. AUTHOR(S) Jay Rubinoff, Steven Sekscienski, and Bill Woodson	5d. PROJECT NUMBER
	5e. TASK NUMBER
	5f. WORK UNIT NUMBER

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) U.S. Army Environmental Center ATTN: SFIM-AEC-TSR 5179 Hoadley Road, Bldg E4435 Aberdeen Proving Ground, MD 21010-5401	8. PERFORMING ORGANIZATION REPORT NUMBER SFIM-AEC-TS-TR-2004005
---	--

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
Approved for public release; distribution unlimited

13. SUPPLEMENTARY NOTES

14. ABSTRACT
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15. SUBJECT TERMS
Threatened and Endangered Species, Natural Resources, Conservation, Environmental Compliance, Military Installations, Environmental Quality Review, Species at Risk

16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT SAR	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON Army Environmental Center - Natural Resources Ofc
a. REPORT Unclassified	b. ABSTRACT Unclassified	c. THIS PAGE Unclassified			19b. TELEPHONE NUMBER (Include area code) (410) 436-1593

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information on federal status, critical habitat, consultations, Endangered Species Management Plans (ESMPs), Threatened and Endangered Species Planning Level Surveys (PLSs), and Threatened and Endangered Species Expenditures are provided. Also included in this report are the species at risk (SAR) known to occur on Army installations, as reported in a 2002 document prepared by NatureServe. Web links are also provided for use in accessing further information on listed species.

Contents

1 Executive Summary	1
2 Introduction	3
Background	3
Objective	3
Approach	4
Scope	4
3 Changes from FY 2001 TES Survey	5
New Species Reported in FY 2003 and Species Removed from Installations Reporting TES in FY 2003	5
4 Summary Information	6
Installation and Species Information	6
T&E Species	7
Proposed and Candidate Species	7
Species at Risk	8
Critical Habitat	9
Installations Excluded from Critical Habitat Designation Based on ESA 3(5)(A) and/or 4(b)(2)	10
Consultations and Biological Opinions	13
Endangered Species Management Plans	13
Planning Level Surveys	13
Expenditures	13
Consistent Reporting	14
Recent T&E Legislation	15
5 Definitions	16
Acronyms	20
References	21

Tables:

Table 1. Army's top T&E expenditures for FY 2002 & 2003	2
Table 2. Species reported in FY 2003 that were not reported in FY 2001	5
Table 3. Species removed from installations reporting in FY 2003	5
Table 4. Federal status of onsite or contiguous TES by category for FY 2003	6
Table 5. Federal status of distinct onsite or contiguous TES occurring on ARNG and IMA installations	7
Table 6. Installations reporting Threatened & Endangered species for FY 2003	7

Table 7.	Installations reporting Candidate or Proposed species for FY 2003.....	8
Table 8.	Species at Risk, by category, occurring on ARNG and IMA Installations	9
Table 9.	Critical habitat designated on Army installations, as of FY 2003	9
Table 10.	Installations excluded from critical habitat designation.....	11
Table 11.	Reportable expenditures (\$K) over the last 5 years (FY 1999-FY 2003)	14
Table 12.	Reportable expenditures (\$K) by category for FY 2002 & FY 2003.....	14
Table 13.	Number of T&E species by fiscal year.....	14
Table 14.	Special Installations.....	18

Figures:

Figure 1.	Onsite T&E by Category for FY 2003	1
Figure 2.	Reportable T&E expenditures from FY 1991-2003.....	2

Appendices:

Appendix A:	Installations & the TES recorded as Onsite or Contiguous	A-1
Appendix B:	TES & Installations Where Recorded - Sorted by Scientific Name.....	B-1
Appendix C:	TES & Installations Where Recorded - Sorted by Common Name	C-1
Appendix D:	ESMP Status and Installation Location by ARNG/IMA Region	D-1
Appendix E:	Installations with T&E Species Onsite.....	E-1
Appendix F:	T&E Species found on Army Installations.....	F-1

1 Executive Summary

As of 1 October 2003, the Army has recorded 175 federally Threatened or Endangered (T&E) (expanded definitions found in section 5) species on 96 installations and 244 Species at Risk (SAR) on 66 installations. Figure 1 shows the breakdown by category of the onsite¹ T&E species for Fiscal Year (FY) 2003. The Army also has 15 installations with designated critical habitat occurring for one or more species, and five (5) installations with unoccupied critical habitat. By the end of FY 2003, the Army had completed 61 Threatened and/or Endangered Species Management Plans for onsite listed species. Appendices A, B, and C provide data on all the installations and federally Threatened, Endangered, Proposed, and Candidate Species (TES) reported in FY 2003. 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 2003, the Army spent over \$30 million dollars on TES management. This figure includes Endangered Species Act (ESA) reportable expenses² of over \$21 million dollars, including both onsite and contiguous³ species. In addition, \$9 million dollars was spent on non-reportable expenses⁴ for onsite and contiguous species. These monetary figures do not include dollars that are expended by military operations for work-arounds and avoidance. Figure 2 shows reportable expenses from FY 1991-2003. Table 1 shows the top ten species, in terms of expenditures, for FY 2002 & 2003.

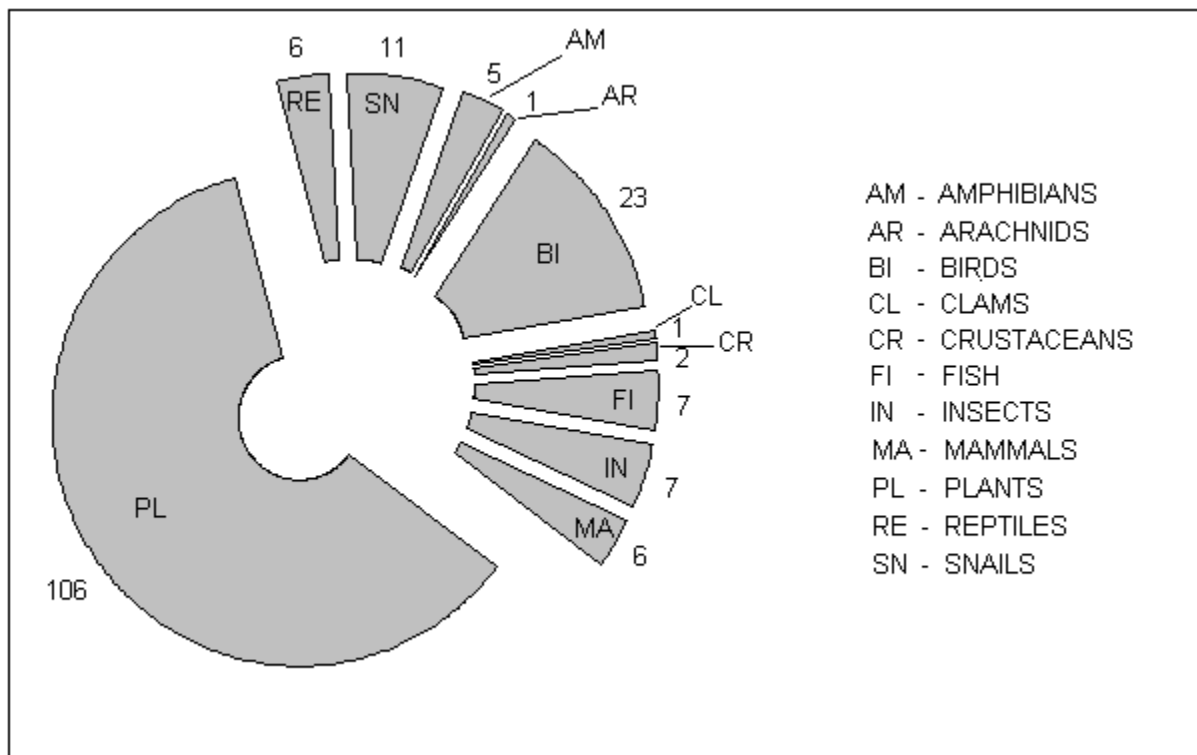


Figure 1. Onsite T&E by Category for FY 2003

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.

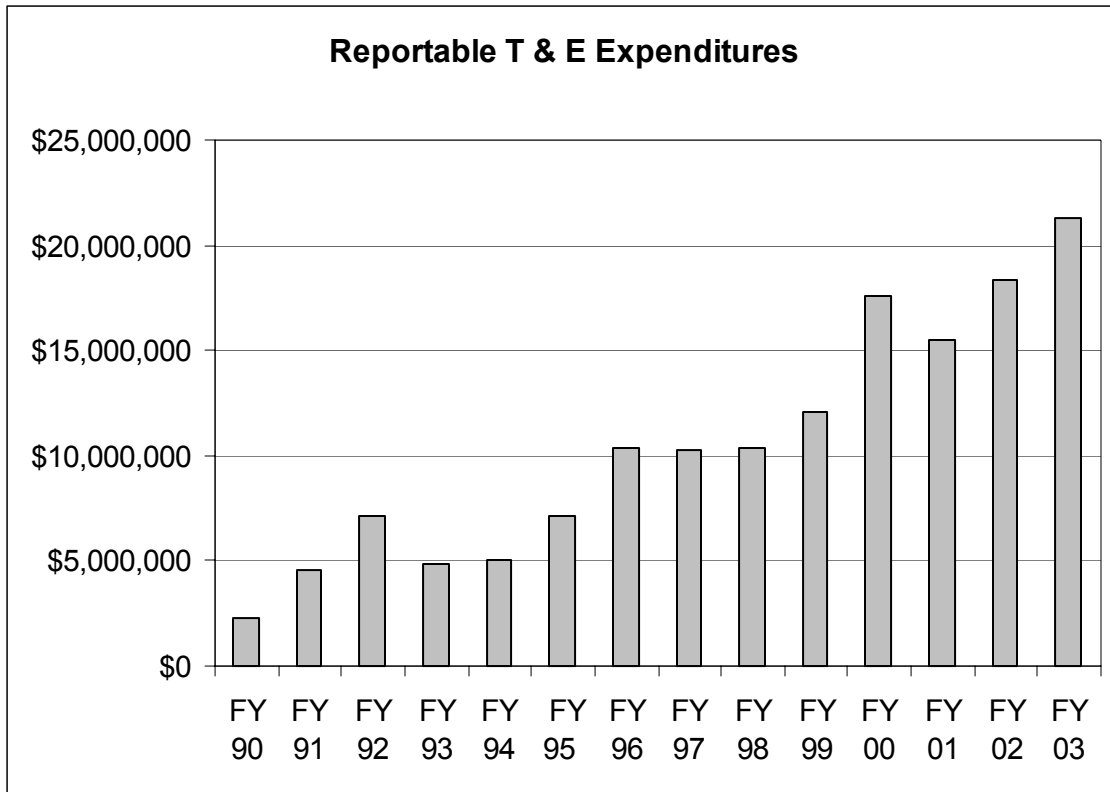


Figure 2. Reportable T&E expenditures from FY 1991-2003.

Table 1. Army's top T&E expenditures for FY 2002 & 2003.

Top Expenditures for FY 2002	
Species Common Name	Reportable Expenditures (\$K)
Red-cockaded woodpecker	\$3,094.9
Black-capped vireo	\$2,629.9
Golden-cheeked warbler	\$2,554.0
Desert tortoise	\$1,340.2
Mexican spotted owl	\$1,194.5
Southwestern willow flycatcher	\$848.1
Indiana bat	\$746.2
Gray bat	\$620.5
Huachuca water-umbrell	\$482.4
Bald eagle	\$473.8

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	\$400.0
Southwestern willow flycatcher	\$392.0

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 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. The Army has also implementing a policy to manage or consider for management those species that have been determined as SAR to help prevent their decline and possible listing in the future. Data collection efforts provide the Army with information that it needs to monitor and manage TES, SAR, and their habitats (Refer to Section 5 for an expanded definition of the acronyms). Each year, installations are asked to provide Headquarters, Department of the Army (HQDA) with a list of TES occurring within their boundaries and on surrounding lands and to respond to a series of questions about those species. This information gives the Army the ability to assess the status of its TES nationwide, to plan for expenditures related to TES, and to deal proactively with any potential conflicts between TES and the military mission and management efforts. SAR information was not provided by installations, but was taken from the "Species of Concern (SOC) on Department of Defense Installations" report prepared by NatureServe (DoD 2002), and is included in this document for planning and reporting purposes.

The information provided in this report only reflects those TES or SAR species that are found on 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 responsible for ESA responsibilities for actions on these sites. Therefore, the Army's financial responsibilities for ESA compliance extends beyond Army properties, and these responsibilities are not captured in this report.

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 (IMA⁵), 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 TES 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) does not adequately cover RRC facilities for SAR.

This report may not capture all the TES 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). 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

This report has traditionally been prepared on an annual basis, but work on the FY 2002 report was suspended in favor of establishing a report with more 'real-time' data. The objective of this project is to analyze and report the most current TES information from the FY 2003 EQR and other available data sources. This 'real-time' data will help the Army plan how to best comply with its obligations under the

⁵ Special installations (see Section 5 - Definitions) are included within the IMA in this report,

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. TES-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 Plan (ESMP) and Planning Level Survey (PLS), covering all species on the installation. The U.S. Army Environmental Center (AEC) obtained other necessary data and clarifications from the US Fish and Wildlife Service (FWS), 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 2003. Federally-listed species include: Threatened, Endangered, Proposed Threatened, Proposed Endangered, or Candidate status. As in previous survey years, several installations did not respond to the survey, and these were contacted to obtain the necessary data. For practical purposes, the survey represents a complete census of Army installations with TES. 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 AEC 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 the FY 2001 TES Survey

New Species Reported and Species Removed from Installations Reporting TES in FY 2003

Table 2 reflects species reported by installations for the first time in FY 2002 or 2003. Sixteen species were added since the FY 2001 published report. The breakdown by category includes one (1) reptile, one (1) clam, one (1) mammal, three (3) birds, four (4) fish, one (1) insect, one (1) snail, and four (4) plants. By status, new species include two (2) Candidate species, eight (8) Endangered, and six (6) Threatened.

Table 2. Species Reported in FY 2003 that were not reported in FY 2001.

Scientific Name	Common Name	Category	Status
<i>Amaranthus pumilus</i>	Seabeach amaranth	Plant	T
<i>Cyperus trachysanthos</i>	Pu`uka`a	Plant	E
<i>Cyprogenia stegaria</i>	Fanshell	Clam	E
<i>Dipodomys stephensi</i>	Stephens' kangaroo rat	Mammal	E
<i>Echinocactus horizonthalonius var.nicholii</i>	Nichol's Turk's head cactus	Plant	E
<i>Etheostoma cragini</i>	Arkansas darter	Fish	C
<i>Helminthoglypta walkeriana</i>	Morro shoulderband snail	Snail	E
<i>Lanius ludovicianus mearnsi</i>	San Clemente loggerhead shrike	Bird	E
<i>Oncorhynchus clarki henshawi</i>	Lahontan cutthroat trout	Fish	T
<i>Oncorhynchus clarki stomias</i>	Greenback cutthroat trout	Fish	T
<i>Panicum niuhauense</i>	Lau`ehu	Plant	E
<i>Pituophis ruthveni</i>	Louisiana pine snake	Reptile	C
<i>Polysticta stelleri</i>	Steller's eider	Bird	T
<i>Pseudocopaeodes eunus obscurus</i>	Carson wandering skipper	Insect	E
<i>Salvelinus confluentus</i>	Bull trout	Fish	T
<i>Somateria fischeri</i>	Spectacled eider	Bird	T

Table 3 represents the species no longer reported on any Army installation in FY 2003 due to withdrawal from consideration, new distribution information, installation closures, or species no longer recorded on or contiguous to an Army installation. Twenty-one species were removed from a total of 17 installations.

Table 3. Species removed from installations reporting in FY 2003.

Scientific Name	Common Name	Category	Status 01	Status 03
<i>Antilocapra mericana sonoriensis</i>	Sonoran pronghorn	Mammal	E	E
<i>Canis lupus baileyi</i>	Mexican gray wolf	Mammal	E	E
<i>Desmocerus californicus dimorphus</i>	Valley elderberry longhorn beetle	Insect	T	T
<i>Dromus dromas</i>	Dromdary pearlymussel	Clam	E	E
<i>Epioblasma florentina walkeri</i>	Tan riffleshell	Clam	E	E
<i>Hymenoxys texana</i>	Texas prairie dawn-flower	Plant	E	E
<i>Lampsilis abrupta</i>	Pink mucket pearlymussel	Clam	E	E
<i>Manduca blackburni</i>	Blackburn's sphinx moth	Insect	E	E
<i>Mustela nigripes</i>	Black-footed ferret	Mammal	E	E
<i>Nerodia erythrogaster neglecta</i>	Northern copperbelly watersnake	Reptile	T	T
<i>Obovaria retusa</i>	Ring pink	Clam	E	E
<i>Plethobasus cooperianus</i>	Orange-foot pimpleback	Clam	E	E
<i>Pleurobema plenum</i>	Rough pigtoe	Clam	E	E
<i>Quadrula fragosa</i>	Winged mapleleaf	Clam	E	E
<i>Sarracenia oreophila</i>	Green pitcher-plant	Plant	E	E
<i>Sarracenia rubraa alabamensis</i>	Alabama canebrake pitcher-plant	Plant	E	E
<i>Sarracenia rubra ssp. jonesii</i>	Mountain sweet pitcher-plant	Plant	E	E
<i>Sesbania tomentosa</i>	Ohai	Plant	E	E
<i>Texella cokendolpheri</i>	Cokendolpher cave harvestman	Arachnid	E	E
<i>Texella reddelli</i>	Bee Creek cave harvestman	Arachnid	E	E
<i>Texella reyesi</i>	Bone Cave harvestman	Arachnid	E	E

4. Summary Information

Installation and Species Information

For the FY 2003 reporting period, information was collected from a total of 126 installations that have either onsite or contiguous TES. Of those responding, 101 installations (79.5%) reported onsite TES and 25 installations (20.5%) reported only having contiguous TES.

Of the 238 recorded TES species⁶, 67% are Endangered, 20% are Threatened, 11% are Candidates, 1% are Threatened due to similarity of appearance, 1% is Proposed Threatened or Proposed Endangered (Table 4). By category, 53.5% of the species are plants, 15% are birds, 6.5% are fish, 6% are reptiles, 5% are snails, 4.5% are mammals, 4% are insects, 2.5% are amphibians, 1% are arachnids, 1% are crustaceans, and 1% are clams (Table 4).

The 126 installations with onsite or contiguous TES include 56 Army National Guard, three (3) Army Reserves, six (6) Base Realignment and Closure (BRAC), nine (9) IMA NE Region, 13 IMA NW Region, seven (7) IMA Pacific Region, 14 IMA SE Region, and 18 IMA SW Region installations. Table 5 summarizes the numbers of TES species that occur within ARNG and IMA.

Table 4. Federal Status of Onsite or Contiguous TES Species by Category for FY 2003.

	Candidate	Threatened	Endangered	Proposed Threatened or Endangered	Threatened due to Similarity of Appearance (T(S/A))	Total by Category
Amphibians	0	3	2	1	0	6
Arachnids	0	0	1	0	0	1
Birds	2	9	23	1 ^a	0	35
Clams	0	0	2	0	0	2
Crustaceans	1	1	1	0	0	3
Fish	1	7	7	0	0	15
Insects	1	1	7	0	0	9
Mammals	1	3	7	0	0	11
Plants	17	18	94	1	0	127
Reptiles	3	6	3	0	2	14
Snails	1	0	11	0	0	12
Total by Federal Status	27	48	158	3	2	238

^a On 9 September 2003, the FWS determined that the action of listing the mountain plover (*Charadrius montanus*) as threatened was not warranted and consequently withdrew the proposed rule and proposed special rule.

⁶ Species that have more than one federal designation (i.e., T/E or T/T(S/A) depending on location) are recorded separately.

Table 5. Federal status of distinct onsite or contiguous TES occurring on ARNG and IMA installations.

	Candidate	Threatened	Endangered	Proposed Threatened or Endangered	Threatened due Similarity of Appearance (T(S/A))	TOTALS
Army National Guard Bureau	4	29	37	1	2	73
Army Reserve	0	2	3	1	1	7
BRAC	1	1	3	0	1	6
Northeast	0	4	3	0	0	7
Northwest	4	10	7	1 ^a	0	22
Pacific	16	2	82	0	0	100
Southeast	0	7	21	0	1	29
Southwest	5	12	26	1	1	45

^a The mountain plover.

T&E Species

A total of 205 different T&E species (381 occurrences) were identified by 121 of the 126 installations that reported having onsite or contiguous TES. Of the 121 installations, 96 reported having onsite T&E species. The remaining 25 installations reported having only contiguous T&E species. Of the 205 T&E species, 175 species occurred onsite and the remaining 30 species were reported as being contiguous to at least one installation and not onsite at any installation (Table 6). See Appendix E and F, 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 2003.

	Onsite	Contiguous	Total
Number of Installations	96	25	121
Number of Distinct Species	175	30	205
Number of Species Occurrences	302	79	381

The bald eagle was the most commonly reported T&E species on Army installations. Fifty-two (52) installations reported it as onsite or contiguous. A total of 19 installations listed the bald eagle as the only T&E species onsite or contiguous to them. Fourteen (14) of these installations recorded the bald eagle as the only T&E species found onsite. The Indiana bat and red-cockaded woodpecker were tied as the second most frequently recorded T&E species, each recorded by 11 installations. Eight (8) installations reported the gray bat on or contiguous to them and six (6) reported the piping plover.

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 are Camp Blanding (ARNG) and Fort Stewart (IMA SE), each with six (6).

Proposed and Candidate Species

A total of 30 distinct Proposed/Candidate species were identified from the 126 installations that reported having onsite or contiguous TES. A total of 25 installations reported having Proposed/Candidate species on or contiguous to them. Six (6) of these installations reported having only Proposed and/or Candidate species on or contiguous to their installation. One (1) installation had only a single Candidate species contiguous to them to report. All the 30 distinct Proposed/Candidate species identified on Army lands occurred within at least one (1) installation's boundary (Table 7).

Table 7. Installations reporting Candidate or Proposed species for FY 2003.

	Onsite	Contiguous	Total
Number of Installations	24	1	25
Number of Distinct Species	30	0	30

Species at Risk

The DoD Legacy Program funded a cooperative FWS and DoD project to identify species at risk⁷ on military installations (Phase I) (DoD 2002) and develop management guidelines for one SAR per each military service (Phase II). The **SAR list** was prepared by NatureServe and it is to **assist DoD in focusing conservation efforts towards species that could be listed under the ESA if population declines occur or continue**. The species in the report were identified as occurring on or near an Army site. The report is not inclusive of all Army installations. Approximately 193 DoD facilities were not surveyed for this effort. For the Army, the report does not capture Army Reserve properties other than the Army Reserve installations that are a part of IMA. The report also does not, 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 report is a useful resource for identifying SAR that may be on or near DoD property. You can access the report at :

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

For Phase II of the SAR project, NatureServe filtered the listed SAR according to a set of selection criteria, such as occurring onsite, potential impact on mission, more than 25% of occurrence on DoD property, etc., to prioritize the species. Each military branch, with input from the FWS, selected a Phase II species to have management guidelines prepared. The FWS is developing the management guidelines with assistance from State Natural Heritage Programs and in consultation with the participating military installations. The goal is to provide management guidelines that, if implemented, will effectively manage the species and prevent the species from being listed under the ESA. Implementation of the guidelines is discretionary and there are no assurances that management efforts will meet the intended goal. More information about Phase II of this project can be found at the Legacy web site <http://www.dodlegacy.org/>. After logging in (register first to gain login access) click "projects" then click "DoD" then click "2003" and look for "Species at Risk Assessment and Recommendations: Part II Planning & Mgt of SOC".

According to the report, the total number of SAR in the U.S. is 3,451. Of this amount, 523 occur on DoD property, and of these, 244 occur on/near 66 different Army sites, with many on/near individual installations such as Schofield Barracks Military Reservation (IMA Pacific) with 46 and Fort Bragg (IMA SE) with 9. The numbers of SAR per Region, ARNG, and BRAC installations are listed in Table 8. Since the publication of the SAR report, a number of species have been identified on installations where they were not recorded previously, been moved from Candidate to Proposed status, become Candidate species, or been removed from proposed status, or; such as black-tailed prairie dog on Ft. Carson (IMA NW), California tiger salamander, western sage grouse, mountain plover, respectively.

⁷ 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.

Table 8. Species at Risk, by category, occurring on ARNG and IMA installations.

	IMA Northeast	IMA Northwest	IMA Southeast	IMA Southwest	IMA Pacific	Army National Guard	BRAC	TOTAL # Sp.
Amphibians			1	4			1	5
Birds		2		1	2		1	3
Clams		1				2		3
Crustaceans	3	1	2	2			1	8
Fish		1	5	1				7
Invertebrates	7	4	3	4	4	3	6	28
Mammals		1	1	3				4
Plants	2	12	28	55	40	2	21	152
Reptiles		1	2	3		3	3	9
Snails			2	7	14	2		25
<u>TOTAL</u>	12	23	44	80	60	12	33	244
Installations with SAR	6	8	12	14	10	7	9	66

Critical Habitat

The FWS and the NMFS have designated critical habitat for 446 species, 13 of those species have designations occurring on 15 Army installations (Table 9). There is a total of 18 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.

The list of critical habitat occurrences on Army installations increased by one (1) from what was recorded in FY 2001. Due to court orders, critical habitat for the Arroyo toad, cactus ferruginous pygmy owl, and 19 evolutionary significant units (ESU) of steelhead were withdrawn. Therefore, critical habitat no longer exists for these species on Fort Hunter Liggett, Camp Roberts Training Site, Camp San Luis Obispo, Fort Lewis, and Yakima Training Center (3 ESUs). After the original critical habitat was withdrawn for the steelhead, the FWS re-proposed new critical habitat for these ESUs; therefore, the FWS may once again consider critical habitat on these installations. Proposed critical habitat for the Arroyo toad, and possibly for the cactus ferruginous pygmy owl, is anticipated sometime in 2004.

Table 9. Critical habitat designated on Army installations, as of FY 2003.

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
IMA NW	Fort Lewis	T	Bird	<i>Strix occidentalis caurina</i>	Northern spotted owl	Contiguous

MACOM/ Region	Installation	Federal Status	Category	Scientific Name	Common Name	Species Onsite or 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 ibidis</i>	O'ahu 'elepaio	Onsite
IMA SW	Fort Huachuca	E	Plant	<i>Lilaeopsis schaffneriana</i> var. <i>recurva</i>	Huachuca water-umbel	Onsite
IMA SW	Fort Huachuca	T	Bird	<i>Strix occidentalis lucida</i>	Mexican spotted owl	Onsite
IMA SW	Fort Irwin	T	Reptile	<i>Gopherus agassizii</i>	Desert tortoise	Onsite
IMA SW	Presidio of Monterey Annex	T	Bird	<i>Charadrius alexandrinus nivosus</i>	Western snowy plover	Onsite
IMA SW	Presidio of Monterey Annex	T	Plant	<i>Chorizanthe pungens</i> var. <i>pungens</i>	Monterey spineflower	Onsite
IMA SW	Presidio of Monterey Annex	E	Plant	<i>Lasthenia conjugens</i>	Contra Costa goldfields	Onsite
IMA SW	White Sands Missile Range	E	Plant	<i>Hedeoma todsenii</i>	Todsen's pennyroyal	Onsite

Installations Excluded from Critical Habitat Designation Based on ESA 3(5)(A) and/or 4(b)(2)

Over the past few years, a number of Army installations have been precluded from critical habitat designation. These exclusions were based on a number of factors, 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.

A few installations provided information/evidence during the proposed rule comment period that their installation did not contain the constituent elements required for the species and its survival/recovery. With this information, the FWS precluded critical habitat or reduced the amount of critical habitat designated on these installations.

Many installations prepared Integrated Natural Resources Management Plans (INRMPs) that satisfied the three FWS criteria to exclude an installation from critical habitat designation. These three criteria are: (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. With such an INRMP in place, the FWS does not believe

the installation meets the definition of critical habitat because no additional special management or protection for the species is required (ESA Section 3(5)(A)). Section 318 of the National Defense Authorization Act for Fiscal Year 2004 has basically replaced 3(5)(A) as means for DoD installations to be exempt from critical habitat designation (see Recent T&E Legislation, page 15).

Other installations have been excluded from critical habitat designation because the FWS determined that under 4(b)(2) of the ESA, the benefits of excluding the area outweighed the benefits of specifying the area as critical habitat. The major consideration in this decision making process is the potential negative impacts of a critical habitat designation on military readiness and national security. Table 10 lists all the installations that the FWS has excluded from critical habitat designation based on one or more of the factors discussed above.

Table 10. Installations excluded from critical habitat designation.

INSTALLATION	SPECIES	EXCLUSION	DATE
Fort Carson	Mexican spotted owl (<i>Strix occidentalis lucida</i>)	3(5)(A)	Feb 01
Camp San Luis Obispo	California red-legged frog (<i>Rana aurora draytonii</i>)	4(b)(2)	Mar 01
Camp Parks	California red-legged frog (<i>Rana aurora draytonii</i>)	4(b)(2)	Mar 01
Camp Grafton	Piping plover (<i>Charadrius melodus</i>) Northern Great Plains population	3(5)(A)	Sep 02
Fort Riley	Topeka shiner (<i>Notropis Topeka</i>)	3(5)(A) - coordinated with the FWS and were excluded in proposed rule	Aug 02, not final
Camp Roberts	Purple amole (<i>Chlorogalum purpureum</i>)	3(5)(A)	Nov 02
Fort Hunter Liggett	Purple amole (<i>Chlorogalum purpureum</i>)	4(b)(2)	Nov 02
Santa Cruz Armory (SCA)	Santa Cruz tarplant (<i>Holocarpha macradenia</i>)	Reduced CH designation on SCA from 3 to 2 hectares based on input	Oct 02
Florence Military Reservation (FMR)	Cactus ferruginous pygmy-owl (<i>Glaucidium brasilianum cactorum</i>)	New proposed CH designation does not include FMR. Former CH did include FMR - New FWS survey work and management guidelines determined FMR not appropriate for CH	Nov 02
Camp Bullis	Medla cave meshweaver (<i>Cicurina madla</i>), Ground beetles <i>Rhadine exilis</i> and <i>Rhadine infernalis</i>	3(5)(A) & 4(b)(2)	8 Apr 03
Makua Military Reservation	Mahoe (<i>Alectryon macrococcus</i>), <i>Alsinidendron obovatum</i> *, <i>Bonamia menziesii</i> *, Kamanomano (<i>Cenchrus agrimonoides</i>), 'Akoko (<i>Chamaesyce celastroides</i> var. <i>kaenana</i>), Pauoa (<i>Ctenitis squamigera</i>), Ha'iwale (<i>Cyrtandra dentata</i>), 'Oha (<i>Delissea subcorata</i>), <i>Diellia falcata</i> *, Na'ena'e (<i>Dubautia herbstobatae</i>), 'Akoko (<i>Euphorbia haeleeleana</i>), Mehamehame (<i>Flueggea neowawraea</i>), <i>Hedyotis degeneri</i> *, <i>Hedyotis parvula</i> *, Ma'o hau hele (<i>Hibiscus brackenridgei</i>), 'Anaunau <i>Lepidium arbuscula</i>), Nehe (<i>Lipochaeta tenuifolia</i>), <i>Lobelia niihauensis</i> *, <i>Lobelia oahuensis</i> *, <i>Neraudia angulata</i> *, Kulu'i (<i>Nototrichium humile</i>), Kuahiwi <i>laukahi</i> (<i>Plantago princeps</i>), Lo'ulu (<i>Pritchardia kaalae</i>), <i>Sanicula mariversa</i> *	3(5)(A) & 4(b)(2)	17 June 03

INSTALLATION	SPECIES	EXCLUSION	DATE
Makua Military Reservation (cont'd)	<i>Schiedea hookeri*</i> , <i>Schiedea nuttallii*</i> , <i>Silene lanceolata*</i> , <i>Spermolepis hawaiiensis*</i> , <i>Tetramolopium filiforme*</i> , Pamakani (<i>Viola chamissoniana ssp. Chamissoniana</i>)		
Schofield Barracks Military Reservation	<i>Abutilon sandwicense*</i> , Mahoe (<i>Alectryon macrococcus</i>), <i>Alsinidendron trinerve*</i> , Kamanomano (<i>Cenchrus agrimonoides</i>), 'Akoko (<i>Chamaesyce rockii</i>), Pauoa (<i>Ctenitis squamigera</i>), Haha (<i>Cyanea acuminata</i>), Haha (<i>Cyanea grimesiana ssp. Grimesiana</i>), Haha (<i>Cyanea koolauensis</i>), Ha'iwale (<i>Cyrtandra subumbellata</i>), 'Oha (<i>Delissea subcorata</i>), <i>Diellia falcata*</i> , Fosberg's love grass (<i>Eragrostis fosbergii</i>), Mehamehame (<i>Flueggea neowawraea</i>), Nanu (<i>Gardenia manni</i>), Aupaka (<i>Isodendron longifolium</i>), 'Anaunau (<i>Lepidium arbuscula</i>), Nehe (<i>Lipochaeta lobata var. leptophylla</i>), Nehe (<i>Lipochaeta tenuifolia</i>), <i>Lobelia gaudichaudii ssp. Koolauensis*</i> , <i>Lobelia niihauensis*</i> , <i>Lobelia oahuensis*</i> , <i>Wawae'iole (Lycopodium (=Phlegmariurus) nutans)</i> , <i>Neraudia angulata*</i> , Kulu'i (<i>Nototrichium humile</i>), <i>Phyllostegia hirsuta*</i> , <i>Phyllostegia mollis*</i> , Kuahiwi laukahi (<i>Plantago princeps</i>), Lo'ulu (<i>Pritchardia kaalae</i>), <i>Pteris lidgatei*</i> , <i>Sanicula purpurea*</i> , <i>Schiedea hookeri*</i> , <i>Schiedea nuttallii*</i> , <i>Tetramolopium lepidotum ssp. Lepidotum*</i> , 'Ohe'ohe (<i>Tetraplasandra gymnocarpa</i>), Opuhe (<i>Urera kaalae</i>), Pamakani (<i>Viola chamissoniana ssp. Chamissoniana</i>), <i>Viola oahuensis*</i>	3(5)(A) & 4(b)(2)	17 June 03
Kawailoa Training Area	'Akoko (<i>Chamaesyce rockii</i>), Haha (<i>Cyanea acuminata</i>), <i>Cyanea crispa*</i> , Haha (<i>Cyanea humboltiana</i>), Haha (<i>Cyanea koolauensis</i>), Haha (<i>Cyanea st.-johnii</i>), Ha'iwale (<i>Cyrtandra dentata</i>), Ha'iwale (<i>Cyrtandra viridiflora</i>), Nioi (<i>Eugenia koolauensis</i>), Nanu (<i>Gardenia manni</i>), <i>Hesperomannia arborescens*</i> , <i>Lobelia gaudichaudii ssp. Koolauensis*</i> , <i>Lobelia oahuensis*</i> , <i>Wawae'iole (Lycopodium (=Phlegmariurus) nutans)</i> , Alani (<i>Melicope lydgatei</i>), Kolea (<i>Myrsine juddii</i>), <i>Phyllostegia hirsuta*</i> , <i>Phyllostegia parviflora*</i> , Kuahiwi laukahi (<i>Plantago princeps</i>), <i>Pteris lidgatei*</i> , <i>Sanicula purpurea*</i> , 'Ohe'ohe (<i>Tetraplasandra gymnocarpa</i>), <i>Viola oahuensis*</i>	3(5)(A) & 4(b)(2)	17 June 03
Kahuku Training Area	Haha (<i>Cyanea koolauensis</i>), Nioi (<i>Eugenia koolauensis</i>), Nanu (<i>Gardenia manni</i>), <i>Hesperomannia arborescens*</i> , 'Ohe'ohe (<i>Tetraplasandra gymnocarpa</i>)	3(5)(A) & 4(b)(2)	17 June 03
Dillingham Military Reservation	Ma'oli'oli (<i>Schiedea kealiae</i>)	3(5)(A) & 4(b)(2)	17 June 03
Pohakuloa Training Area	<i>Asplenium fragile var. insulare*</i> , Kio'ele (<i>Hedyotis coriacea</i>), Aupaka (<i>Isodendron hosakae</i>), <i>Neraudia ovata*</i> , Po'e (<i>Portulaca sclerocarpa</i>), <i>Silene hawaiiensis*</i> , <i>Silene lanceolata*</i> , Popolu ku mai (<i>Solanum incompletum</i>), <i>Spermolepis hawaiiensis*</i> , <i>Tetramolopium arenarium*</i> , <i>Vigna o-wahuensis*</i> , A'e (<i>Zanthoxylum hawaiiense</i>)	3(5)(A) & 4(b)(2)	2 July 03
Fort Hunter Liggett	Vernal pool fairy shrimp (<i>Branchinecta lynchi</i>)	4(b)(2)	6 Aug 03
Camp Roberts	Vernal pool fairy shrimp (<i>Branchinecta lynchi</i>)	4(b)(2)	6 Aug 03

* No common name for species

Consultations and Biological Opinions

Installations reported a total of 276 informal and 50 formal consultations with the USFWS/NMFS in FY 2002 and 525 informal and 115 formal consultations in FY 2003. Of the 165 formal consultations, there were no Jeopardy Biological Opinions reported.

Endangered Species Management Plans (ESMP)

Each installation is required to prepare an ESMP for listed and proposed species. Of the 96 installations reporting onsite TEP (federally Threatened, Endangered, and Proposed species), 61 have current and approved ESMPs, 12 have partially complete, and four (4) installations reported they have not yet initiated an ESMP. The remaining 19 installations reported they did not require an ESMP, three (3) of which are not required to have ESMPs because the only species recorded are threatened due to similarity of appearance. Of the 24 installations reporting only contiguous TEP, four (4) have current and approved ESMPs, and 20 installations reported that they do not require an ESMP. One (1) installation with no TEP has reported having a completed and approved ESMP for a Candidate species. ESMP's are not required for contiguous TEP. In summary, 61 installations that reported onsite TEP in the FY 2003 EQR submission have current and approved ESMPs (Appendix D).

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 126 installations that reported TES in FY 03, 89 have a completed T&E PLS and 18 have partially completed their T&E PLS. The remaining 19 installations reported that they do not require a T&E PLS.

Expenditures

T&E expenditures are broken down into reportable and non-reportable expenditures. Reportable expenditures include money spent primarily for the conservation of T&E species pursuant to the ESA, 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-FY2003.

In reportable expenditures, a total of \$18,369.3K and \$21,274.8K was spent for onsite T&E species in FY 2002 and 2003, respectively. By category (Table 12), expenditures for onsite T&E species in FY 2002 include \$136.6K for amphibians, \$60K for arachnids, \$11,658.7K for birds, \$0.7K for crustaceans, \$89.8K for fish, \$315.6K for insects, \$1,771.9K for mammals, \$2,415.9K for plants, \$1,729.2K for reptiles, and \$97.5K for snails. In FY 2003, expenditures by category were: \$111.9K for amphibians, \$200K for arachnids, \$9,074.2K for birds, \$232K for crustaceans, \$226.3K for fish, \$657.4K for insects, \$1,895.4K for mammals, \$5,638K for plants, \$2,586.8K for reptiles, and \$652.9K for snails.

The ARNG spent \$789K and \$2,237.8K in FY 2002 and 2003, respectively, on reportable species. Under the IMA in FY 2003, the NE Region spent \$279.95K, NW Region spent \$1,694.28K, Pacific Region spent \$5,484K, SE Region spent \$5,223.65K, SW Region spent \$6,334.32K, and the Army Reserves spent \$20.58K on reportable species.

An additional \$5,639.1K and \$8,983.72K were spent in non-reportable expenditures in FY 2002 and 2003, respectively. As part of the FY 2003 total, at least \$1,831.2K was spent on Candidate and Proposed species, and \$3,580K of Army Direct and Strategic Environmental Research & Development Program (SERDP) funds were spent on T&E research and development projects. Figures for FY 2002

expenditures on Candidate and Proposed species were not obtainable. These expenditures are not an inclusive list as other unreported projects may include money for TES species management.

Table 11. Reportable expenditures (\$K) over the last 5 years (FY 1999-FY 2003).

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

Table 12. Reportable expenditures (\$K) by category for FY 2002 & FY 2003.

FY 2002 Expenditures (\$K)		FY 2003 Expenditures (\$K)	
Mammals	\$1,771.9	Mammals	\$1,895.4
Birds	\$11,658.7	Birds	\$9,074.2
Reptiles	\$1,729.2	Reptiles	\$2,586.8
Amphibians	\$136.6	Amphibians	\$111.9
Fish	\$89.8	Fish	\$226.3
Arachnids	\$60.0	Arachnids	\$200.0
Insects	\$315.6	Insects	\$657.4
Snails	\$97.5	Snails	\$652.9
Crustaceans	\$0.7	Crustaceans	\$232.0
Plants	\$2,415.9	Plants	\$5,638.0

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 onsite⁸, not contiguous to, Army installations. A Threatened or Endangered species may be recorded on more than one installation, but it is only counted once unless the species has a different status on another installation (i.e., T(S/A) as opposed to T, like the desert tortoise). Table 13 shows these numbers for FY 1999 through FY 2003. 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	96

^a Figures for FY 2002 are not official.

⁸ Proposed species are not included in this number, even though for management purposes the Army considers them the same as T&E species.

Recent T&E Legislation

On 24 November 2003, the President signed the Defense Authorization Act for FY 2004 (Public Law 108-136). Contained within this bill are a number of environmental provisions that impact the military. Specifically, Section 318 precludes the FWS from designating critical habitat on any areas owned, controlled, or designated for use by the DoD, if such areas are subject to an Integrated Natural Resources Management Plan (INRMP) that provides a benefit to the species subject to critical habitat designation. 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. If the FWS does not believe an INRMP provides a benefit to the species, then the FWS can designate critical habitat on the respective installation. The act also amends the ESA by requiring the FWS to consider the impacts of critical habitat designation on national security. Therefore, the FWS could preclude designation of critical habitat on a military reservation if they conclude, regardless of the adequacy of an INRMP, that such a designation would have a significant impact on national security. Section 318 does not affect the prohibition on the taking of listed species or the requirements to consult and to not jeopardize the species.

5. Definitions

Biological Opinion – The document that states the opinion of the FWS/ NMFS as to whether or not a federal agency's proposed action is likely to jeopardize the continued existence of a listed species or result in the destruction or adverse modification of critical habitat.

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

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

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

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

Expenditures – The total cost for managing each federally listed T&E species for which funds were expended during the reporting fiscal year. Guidelines for reporting 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

PT – Federally Proposed as Threatened

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 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.

MACOM – Major Command

AMC - Army Materiel Command

ARNG - Army National Guard

A TEC - Army Test and Evaluation Command

FORSCOM - Forces Command

MDW - Military District of Washington

MEDCOM - Medical Command

TRADOC - Training and Doctrine Command

USACE - U.S. Army Corps of Engineers

USARC - U.S. Army Reserve Command

USARPAC - U.S. Army Pacific Command

USARSO - U.S. Army South Command

USMA - U.S. Military Academy

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

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

Special Installations - Table 14.

Table 14. Special Installations

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

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.

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.

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

6. Acronyms

AAP	Army Ammunition Plant
AD	Army Depot
AEC	US Army Environmental Center
AMC	US Army Materiel Command
ARNG	Army National Guard
BRAC	Base Realignment and Closure
CH	critical habitat
DoD	Department of Defense
ESA	Endangered Species Act
EQR	Environmental Quality Report
ESMP	Endangered Species Management Plan
ESU	evolutionary significant unit
FMR	Florence Military Reservation
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
MEDCOM	Medical Command
MTMC	US Army Military Traffic Management Command
NMFS	National Marine Fisheries Service
PLS	Planning Level Survey
QA/QC	quality assurance/quality control
RRC	Regional Readiness Command
SAR	species at risk
SCA	Santa Cruz Armory
SERDP	Strategic Environmental Research & Development Program
SOC	species of concern
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
TES	Threatened, Endangered, Proposed, and Candidate species
TS	Training Site

6. References

Department of Defense. July 2002. Species of Concern (SOC) on Department of Defense Installations. Prepared and submitted by NatureServe, under contract with DoD.

Bak, J., S. Sekscienski, and B. Woodson. August 2002. Installation Summaries from the FY 2001 Survey of Threatened and Endangered Species on Army Lands. Technical Report (TR) 2002034, USAEC.

Army Environmental Quality Report - FY 2002 and 2003.

Appendix A: Installations & the TES 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
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>Charadrius melodus</i>	Piping plover	Contiguous	T	Bird	No
			<i>Scaphirhynchus albus</i>	Pallid sturgeon	Contiguous	E	Fish	No
			<i>Sterna antillarum</i>	Least tern	Contiguous	E	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
			<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	4	<i>Haliaeetus leucocephalus</i>	Bald Eagle	Contiguous	T	Bird	No
ARNG Camp Navajo	AZ	2	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<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

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 Rilea (Cont'd)			<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>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<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</i> var. <i>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

IMA Region/ Installation MACOM	State	FWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation
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</i> var. <i>kincaidii</i>	Kincaid's Lupine	Onsite	T	Plant	No
			<i>Sidalcea nelsoniana</i>	Nelson's checker-mallow	Onsite	T	Plant	No
			<i>Strix occidentalis caurina</i>	Northern spotted owl	Contiguous	T	Bird	No
ARNG 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
			<i>Sterna antillarum</i>	Least tern	Onsite	E	Bird	No
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>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
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>Panicum niihauense</i>	Lau `ehu	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
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
ARNG NHNG TS	NH	5	<i>Isotria medeoloides</i>	Small whorled pogonia	Contiguous	T	Plant	No
ARNG Orchard Range TS	ID	1	<i>Lepidium papilliferum</i>	Slick spot peppergrass	Onsite	PE	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
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>Branta (=Nesochen) sandvicensis</i>	Hawaiian goose	Onsite	E	Bird	No
			<i>Fulica americana alai</i>	Hawaiian coot	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 Indiana AAP	IN	3	<i>Myotis grisescens</i>	Gray bat	Onsite	E	Mammal	No
BRAC Jefferson Proving Ground	IN	3	<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
BRAC Longhorn AAP	TX	2	<i>Alligator mississippiensis</i>	American alligator	Onsite	T(S/A)	Reptile	No
BRAC Rocky Mountain Arsenal	CO	6	<i>Cynomys ludovicianus</i>	Black-tailed prairie dog	Onsite	C	Mammal	No
			<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	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
BRAC Sunflower AAP	KS	6	<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	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 Deseret Chemical Depot	UT	6	<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
NW Dugway Proving Ground	UT	6	<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
NW Fort Carson (includes Pinyon Canyon)	CO	6	<i>Charadrius montanus</i>	Mountain plover	Onsite	PT	Bird	No
			<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

IMA Region/ Installation MACOM	State	FWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation
NW Fort Carson (cont'd)			<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 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>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	No
			<i>Howellia aquatilis</i>	Water howellia	Onsite	T	Plant	No
			<i>Strix occidentalis caurina</i>	Northern spotted owl	Contiguous	T	Bird	Yes
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
			<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 Iowa AAP	IA	3	<i>Myotis sodalis</i>	Indiana bat	Onsite	E	Mammal	No
NW 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
NW Pueblo Depot Activity	CO	6	<i>Cynomys ludovicianus</i>	Black-tailed prairie dog	Onsite	C	Mammal	No
NW Rock Island Arsenal	IL	3	<i>Haliaeetus leucocephalus</i>	Bald eagle	Onsite	T	Bird	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	E	Fish	No
			<i>Oncorhynchus tshawytscha</i>	Chinook Salmon	Onsite	E	Fish	No
			<i>Salvelinus confluentus</i>	Bull Trout	Contiguous	T	Fish	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 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 Kawailoa 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
			<i>Chamaesyce rockii</i>	`Akoko	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			

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)		<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>	`Ohe`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
	<i>Alectryon macrococcus</i>			Mahoe	Onsite	E	Plant	No	
	<i>Alsinidendron obovatum</i>			None	Onsite	E	Plant	No	
	<i>Bonamia menziesii</i>			None	Onsite	E	Plant	No	
	<i>Cenchrus agrimonioides</i>			Kamanomano	Onsite	E	Plant	No	
	<i>Chamaesyce celastroides</i> var. <i>kaenana</i>			`Akoko	Onsite	E	Plant	No	
	<i>Chasiempis sandwichensis</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 haeleeeleana</i>			`Akoko	Onsite	E	Plant	No	
	<i>Flueggea neowawraea</i>			Mehamehame	Onsite	E	Plant	No	
	<i>Hedyotis degeneri</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	Makua Military Reservation (cont'd)		<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 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	
			<i>Sanicula mariversa</i>	None	Onsite	E	Plant	No	
			<i>Schiedea hookeri</i>	None	Onsite	E	Plant	No	
			<i>Schiedea nuttallii</i>	None	Onsite	E	Plant	No	
			<i>Silene lanceolata</i>	None	Onsite	E	Plant	No	
			<i>Spermolepis hawaiiensis</i>	None	Onsite	E	Plant	No	
	<i>Tetramolopium filiforme</i>	None	Onsite	E	Plant	No			
	<i>Viola chamissoniana</i> ssp. <i>chamissoniana</i>	Pamakani	Onsite	E	Plant	No			
PAC	Pohakuloa TA	HI	1	<i>Asplenium fragile</i> var. <i>insulare</i>	None	Onsite	E	Plant	No
				<i>Branta</i> (=Nesochen) <i>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

IMA Region/ Installation MACOM	State	FWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation	
PAC	Pohakuloa TA (cont'd)		<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</i> var. <i>angustifolia</i>	None	Onsite	E	Plant	No	
			<i>Tetramolopium arenarium</i>	None	Onsite	E	Plant	No	
			<i>Zanthoxylum hawaiiense</i>	A'e	Onsite	E	Plant	No	
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
				<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>	Oahu 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		

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)		<i>Lepidium arbuscula</i>	`Anaunau	Onsite	E	Plant	No	
			<i>Lobelia gaudichaudii</i> ssp. <i>koolauensis</i>	None	Onsite	E	Plant	No	
			<i>Lobelia oahuensis</i>	None	Onsite	E	Plant	No	
			<i>Lycopodium nutans</i>	Wawae`iole	Onsite	E	Plant	No	
			<i>Nothocestrum 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</i> <i>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	
			<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	Anniston Army Depot	AL	4	<i>Xyris tennesseensis</i>	Tennessee yellow-eyed grass	Onsite	E	Plant	No
SE	Blue Grass Army Depot	KY	4	<i>Trifolium stoloniferum</i>	Running buffalo clover	Onsite	E	Plant	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</i> <i>francisci</i>	Saint Francis' satyr butterfly	Onsite	E	Insect	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
SE Fort Bragg (cont'd)			<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
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 Holston AAP	TN	4	<i>Haliaeetus leucocephalus</i>	Bald eagle	Contiguous	T	Bird	No
			<i>Myotis grisescens</i>	Gray bat	Onsite	E	Mammal	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

IMA Region/ Installation MACOM	State	FWS Region	Scientific Name (Genus, species)	Common Name	Onsite/ Contiguous	Federal Listing Status	Category	Critical Habitat on Installation	
SE	Military Ocean Terminal- Sunny Point (cont'd)		<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>Cyprogenia stegaria</i>	Fanshell	Contiguous	E	Clam	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>Falco femoralis</i> <i>septentrionalis</i>	Northern aplomado falcon	Onsite	E	Bird	No
				<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</i> <i>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</i> <i>yerbabuena</i>	Lesser long-nosed bat	Onsite	E	Mammal	No
				<i>Lilaeopsis schaffneriana</i> var. <i>recurva</i>	Huachuca water-umbel	Onsite	E	Plant	Yes
				<i>Meda fulgida</i>	Spikedace	Contiguous	T	Fish	No

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 Huachuca (cont'd)			<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	Yes
			<i>Tiaroga cobitis</i>	Loach minnow	Contiguous	T	Fish	No
SW Fort Hunter Liggett	CA	1	<i>Ambystoma californiense</i>	California tiger salamander	Onsite	PT	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
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 (Includes Camp Bullis)	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 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
SW Lonestar AAP	TX	2	<i>Alligator mississippiensis</i>	American alligator	Onsite	T (S/A)	Reptile	No
SW McAlester AAP	OK	2	<i>Nicrophorus americanus</i>	American burying beetle	Onsite	E	Insect	No
SW Parks RFTA	CA	1	<i>Ambystoma californiense</i>	California tiger salamander	Onsite	PT	Amphibian	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 Parks RFTA (cont'd)			<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
SW Pine Bluff Arsenal	AR	4	<i>Alligator mississippiensis</i>	American alligator	Onsite	T (S/A)	Reptile	No
SW Presidio of Monterey	CA	1	<i>Ambystoma californiense</i>	California tiger salamander	Onsite	PT	Amphibian	No
			<i>Piperia yadonii</i>	Yadon's piperia	Onsite	E	Plant	No
SW Presidio of Monterey Annex	CA	1	<i>Charadrius alexandrinus nivosus</i>	Western snowy plover	Onsite	T	Bird	Yes
			<i>Chorizanthe pungens</i> var. <i>pungens</i>	Monterey spineflower	Onsite	T	Plant	Yes
			<i>Euphilotes enoptes smithi</i>	Smith's blue butterfly	Onsite	E	Insect	No
			<i>Gilia tenuiflora</i> ssp. <i>arenaria</i>	Monterey gilia	Onsite	E	Plant	No
			<i>Lasthenia conjugens</i>	Contra Costa goldfields	Onsite	E	Plant	Yes
			<i>Rana aurora draytonii</i>	California red-legged frog	Contiguous	T	Amphibian	No
SW Sierra Army Depot	CA	1	<i>Pseudocopaeodes eunus obscurus</i>	Carson wandering skipper	Contiguous	E	Insect	No
SW White Sands Missile Range	NM	2	<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>Hedeoma todsenii</i>	Todsens pennyroyal	Onsite	E	Plant	Yes
SW Yuma Proving Grounds	AZ	2	<i>Echinocactus horizonthalonius</i> var. <i>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	PT	Amphibian	No
			<i>Chorizanthe pungens</i> var. <i>pungens</i>	Monterey spineflower	Onsite	T	Plant	No
			<i>Dipodomys stephensi</i> (incl. <i>D. cascus</i>)	Stephens' kangaroo rat	Contiguous	E	Mammal	No
			<i>Lanius ludovicianus mearnsi</i>	San Clemente loggerhead shrike	Contiguous	E	Bird	No
USAR 70TH RRC HQ	WA	1	<i>Oncorhynchus tshawytscha</i>	Chinook salmon	Contiguous	T	Fish	No
	WA	1	<i>Salvelinus confluentus</i>	Bull trout	Contiguous	T	Fish	No
USAR 81ST RRC HQ	AL	4	<i>Chamaesyce deltoidea</i> ssp. <i>deltoidea</i>	Deltoid spurge	Onsite	E	Plant	No

**Appendix B: TES & 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	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
				SW	2	Lonestar AAP	TX	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)				SW	4	Pine Bluff Arsenal	AR	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	PT	Amphibian	SW	1	Parks RFTA	CA	Onsite	No
				SW	1	Presidio of Monterey	CA	Onsite	No
				SW	1	Fort Hunter Liggett	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>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
<i>Branchinecta lynchi</i>	Vernal pool fairy shrimp	T	Crustacean	ARNG	1	Camp Roberts TS	CA	Onsite	No
				SW	1	Fort Hunter Liggett	CA	Onsite	No
<i>Branta (=Nesochen) 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	SW	1	Fort Hunter Liggett	CA	Onsite	No
<i>Buteo solitarius</i>	Hawaiian hawk	E	Bird	ARNG	1	Hilo (Keaukaha Military Reserv)	HI	Onsite	No
				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 agrimonioides</i>	Kamanomano	E	Plant	PAC	1	Makua Military Reservation	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>Centrocercus urophasianus phaios</i>	Western sage grouse	C	Bird	NW	1	Yakima Training Center	WA	Onsite	No
<i>Chamaesyce celastroides</i> var. <i>kaenana</i>	`Akoko	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Chamaesyce deltoidea</i> ssp. <i>deltoidea</i>	Deltoid spurge	E	Plant	USAR	4	81ST RRC HQ	AL	Onsite	No
<i>Chamaesyce rockii</i>	`Akoko	E	Plant	PAC	1	Kawailoa TA	HI	Onsite	No
<i>Charadrius alexandrinus</i> <i>nivosus</i>	Western snowy plover	T	Bird	ARNG	1	Camp Rilea	OR	Contiguous	No
				SW	1	Presidio of Monterey Annex	CA	Onsite	Yes
<i>Charadrius melodus</i>	Piping plover	T	Bird	ARNG	6	Camp Ashland MTA/OMS 5	NE	Contiguous	No
				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>Charadrius montanus</i>	Mountain plover	PT	Bird	NW	6	Fort Carson	CO	Onsite	No
<i>Chasiempis sandwichensis</i> <i>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
				SW	1	Fort Hunter Liggett	CA	Onsite	No
<i>Chorizanthe pungens</i> var. <i>pungens</i>	Monterey spineflower	T	Plant	SW	1	Presidio of Monterey Annex	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</i> var. <i>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
<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

Scientific Name (Genus, species)	Common Name	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
<i>Cyanea acuminata (cont'd)</i>				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Cyanea crista</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	ARNG	6	Fort Harrison	MT	Onsite	No
				ARNG	6	Salina Smokey Hill 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
<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>Cyprogenia stegaria</i>	Fanshell	E	Clam	SE	4	Redstone Arsenal	AL	Contiguous	No
<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	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>Dermodochelys coriacea</i>	Leatherback sea turtle	E	Reptile	SE	4	Military Ocean Terminal-Sunny Point	NC	Contiguous	No
<i>Diellia falcata</i>	None	E	Plant	PAC	1	Makua Military Reservation	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>Diellia falcata</i> (cont'd)				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>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>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	SW	1	Presidio of Monterey Annex	CA	Onsite	No
<i>Euphorbia haeleeleana</i>	`Akoko	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
<i>Falco femoralis septentrionalis</i>	Northern aplomado falcon	E	Bird	SW	2	Fort Bliss	TX	Onsite	No
				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
<i>Gardenia mannii</i>	Nanu	E	Plant	PAC	1	Kawailoa TA	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>Gardenia mannii</i> (cont'd)				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
<i>Gilia tenuiflora</i> ssp. <i>arenaria</i>	Monterey gilia	E	Plant	SW	1	Presidio of Monterey Annex	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
				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 San Luis Obispo	CA	Contiguous	No
				SW	1	Fort Hunter Liggett	CA	Onsite	No
<i>Haliaeetus leucocephalus</i>	Bald eagle	T	Bird	ARNG	3	Atterbury TS	IN	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	2	Camp Navajo	AZ	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				

Scientific Name (Genus, species)	Common Name	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
<i>Haliaeetus leucocephalus (cont'd)</i>				BRAC	6	Rocky Mountain Arsenal	CO	Onsite	No
				BRAC	3	Savanna Army Depot	IL	Onsite	No
				BRAC	6	Sunflower AAP	KS	Contiguous	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
				NE	5	USA CASCOM & Fort Lee	VA	Contiguous	No
				NE	5	West Point Military Reservation	NY	Onsite	No
				NW	6	Deseret Chemical Depot	UT	Contiguous	No
				NW	6	Dugway Proving Ground	UT	Contiguous	No
				NW	6	Fort Carson	CO	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	3	Newport Chemical Activity	IN	Contiguous	No
				NW	3	Rock Island Arsenal	IL	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	Holston AAP	TN	Contiguous	No
				SE	4	Military Ocean Terminal-Sunny Point	NC	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>Haliaeetus leucocephalus (cont'd)</i>				SE	4	Redstone Arsenal	AL	Onsite	No
				SW	2	Fort Bliss	TX	Onsite	No
				SW	2	Fort Hood	TX	Onsite	No
				SW	1	Fort Hunter Liggett	CA	Onsite	No
				SW	1	Hawthorne AAP	NV	Contiguous	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	Tulahoma TS	TN	Onsite	No
<i>Helminthoglypta walkeriana</i>	Morro shoulderband snail	E	Snail	ARNG	1	Camp San Luis Obispo	CA	Onsite	No
<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	Ukumehame Firing Range	HI	Onsite	No
<i>Holocarpa 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

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<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	SW	1	Presidio of Monterey Annex	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>Lepidium papilliferum</i>	Slick spot peppergrass	PE	Plant	ARNG	1	Orchard Range TS	ID	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
<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>	Paliia	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
				NW	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

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<i>Megalagrion xanthomelas</i>	Orangeblack Hawaiian damselfly	C	Insect	PAC	1	Tripler Army Med Center	HI	Onsite	No
<i>Melicope hiiakae</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	ARNG	4	Fort McClellan	AL	Onsite	No
				ARNG	4	Tullahoma 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
				SE	4	Holston AAP	TN	Onsite	No
				SE	4	Redstone Arsenal	AL	Onsite	No
<i>Myotis sodalis</i>	Indiana bat	E	Mammal	ARNG	3	Atterbury TS	IN	Onsite	No
				ARNG	3	Macon TS	MO	Contiguous	No
				ARNG	4	Tullahoma TS	TN	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
				NW	3	Iowa AAP	IA	Onsite	No
				NW	3	Newport Chemical Activity	IN	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

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<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	ARNG	2	Camp Gruber TS	OK	Onsite	No
				ARNG	4	Fort Chaffee	AR	Onsite	No
				SW	2	McAlester AAP	OK	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
<i>Oncorhynchus clarki henshawi</i>	Lahontan cutthroat trout	T	Fish	SW	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	Yakima Training Center	WA	Onsite	No
				USAR	1	70TH RRC HQ	WA	Contiguous	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

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<i>Picoides borealis</i> (cont'd)				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
<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>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>Pseudocopaeodes eunus obscurus</i>	Carson wandering skipper	E	Insect	SW	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

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<i>Ptilimnium nodosum</i>	Harperella	E	Plant	ARNG	5	BG Thomas B. Baker TS (formerly Lil Aaron Strauss)	MD	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
				SW	1	Fort Hunter Liggett	CA	Contiguous	No
				SW	1	Parks RFTA	CA	Onsite	No
				SW	1	Presidio of Monterey Annex	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	Yakima Training Center	WA	Contiguous	No
					1	70TH RRC HQ	WA	Contiguous	No
<i>Sanicula marivera</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>Scaphirhynchus albus</i>	Pallid sturgeon	E	Fish	ARNG	6	Camp Ashland MTA/OMS 5	NE	Contiguous	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

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<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
				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	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	6	Camp Ashland MTA/OMS 5	NE	Contiguous	No
				ARNG	4	Fort Chaffee	AR	Onsite	No
				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	2	Fort Huachuca	AZ	Onsite	Yes
<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

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<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
<i>Trifolium stoloniferum</i>	Running buffalo clover	E	Plant	SE	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
				SW	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
				SW	1	Fort Hunter Liggett	CA	Contiguous	No
				SW	1	Parks RFTA	CA	Contiguous	No
<i>Xyris tennesseensis</i>	Tennessee yellow-eyed grass	E	Plant	ARNG	4	Fort McClellan	AL	Onsite	No
				SE	4	Anniston Army Depot	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: TES & 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> <i>var. 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 haelealeana</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	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
				SW	2	Lonestar AAP	TX	Onsite	No
SW	4	Pine Bluff Arsenal	AR	Onsite	No				
American burying beetle	<i>Nicrophorus americanus</i>	E	Insect	ARNG	2	Camp Gruber TS	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)				ARNG	4	Fort Chaffee	AR	Onsite	No
				SW	2	McAlester AAP	OK	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	SW	1	Fort Hunter Liggett	CA	Onsite	No
Aupaka	<i>Isodendron longifolium</i>	T	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
Bald eagle	<i>Haliaeetus leucocephalus</i>	T	Bird	ARNG	3	Atterbury TS	IN	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	4	Camp J.T. Robinson	AR	Contiguous	No
				ARNG	2	Camp Navajo	AZ	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				
BRAC	6	Sunflower AAP	KS	Contiguous	No				
NE	5	Aberdeen Proving Ground	MD	Onsite	No				
NE	5	Adelphi Army Research Laboratory	MD	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
Bald eagle (cont'd)				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
				NE	5	USA CASCOM & Fort Lee	VA	Contiguous	No
				NE	5	West Point Military Reservation	NY	Onsite	No
				NW	6	Deseret Chemical Depot	UT	Contiguous	No
				NW	6	Dugway Proving Ground	UT	Contiguous	No
				NW	6	Fort Carson	CO	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	3	Newport Chemical Activity	IN	Contiguous	No
				NW	3	Rock Island Arsenal	IL	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	Holston AAP	TN	Contiguous	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	Fort Hunter Liggett	CA	Onsite	No
				SW	1	Hawthorne AAP	NV	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
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
				SW	2	Fort Sill	OK	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	Yakima Training Center	WA	Contiguous	No
				NW	1	70th RRC HQ	WA	Contiguous	No
Cactus ferruginous pygmy-owl	<i>Glaucidium brasilianum cactorum</i>	E	Bird	ARNG	2	Florence Military Reservation	AZ	Contiguous	No
California condor	<i>Gymnogyps californianus</i>	E	Bird	ARNG	1	Camp San Luis Obispo	CA	Contiguous	No
				SW	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
				SW	1	Fort Hunter Liggett	CA	Contiguous	No
				SW	1	Parks RFTA	CA	Onsite	No
				SW	1	Presidio of Monterey Annex	CA	Contiguous	No
California tiger salamander	<i>Ambystoma californiense</i>	PT	Amphibian	SW	1	Parks RFTA	CA	Onsite	No
				SW	1	Fort Hunter Liggett	CA	Onsite	No
				USAR	1	63RD RRC HQ	CA	Onsite	No
				SW	1	Presidio of Monterey	CA	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
Camp Shelby burrowing crayfish	<i>Fallicambarus gordonii</i>	C	Crustacean	ARNG	4	Camp Shelby	MS	Onsite	No
Carson wandering skipper	<i>Pseudocopaeodes eunus obscurus</i>	E	Insect	SW	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	Yakima Training Center	WA	Onsite	No
				USAR	1	70TH RRC HQ	WA	Contiguous	No
Chiricahua leopard frog	<i>Rana chiricahuensis</i>	T	Amphibian	SW	2	Fort Huachuca	AZ	Onsite	No
Chorro Creek bog thistle	<i>Cirsium fontinale</i> var. <i>obispoense</i>	E	Plant	ARNG	1	Camp San Luis Obispo	CA	Onsite	No
Contra Costa goldfields	<i>Lasthenia conjugens</i>	E	Plant	SW	1	Presidio of Monterey Annex	CA	Onsite	Yes
Cooley's meadowrue	<i>Thalictrum cooleyi</i>	E	Plant	SE	4	Military Ocean Terminal-Sunny Point	NC	Contiguous	No
Deltoid spurge	<i>Chamaesyce deltoidea</i> ssp. <i>deltoidea</i>	E	Plant	USAR	4	81ST RRC HQ	AL	Onsite	No
Desert tortoise	<i>Gopherus agassizii</i>	T	Reptile	ARNG	1	Clark County TA	NV	Contiguous	No
				SW	1	Fort Irwin	CA	Onsite	Yes
				T(S/A)	2	Florence Military Reservation	AZ	Onsite	No
Diamond Head schiedea	<i>Schiedea adamantis</i>	E	Plant	ARNG	1	Fort Ruger	HI	Onsite	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
Fanshell	<i>Cyprogenia stegaria</i>	E	Clam	SE	4	Redstone Arsenal	AL	Contiguous	No
Flatwoods salamander	<i>Ambystoma cingulatum</i>	T	Amphibian	SE	4	Fort Stewart	GA	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	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	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

Common Name	Scientific Name (Genus, species)	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
Gray bat (cont'd)				SE	4	Fort Campbell	KY	Onsite	No
				SE	4	Fort Knox	KY	Onsite	No
				SE	4	Holston AAP	TN	Onsite	No
				SE	4	Redstone Arsenal	AL	Onsite	No
Gray wolf	<i>Canis lupus</i>	T	Mammal	ARNG	3	Camp Ripley	MN	Onsite	No
				NW	3	Fort McCoy	WI	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
				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
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

Common Name	Scientific Name (Genus, species)	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
Hawaiian goose	<i>Branta (=Nesochen) sandvicensis</i>	E	Bird	PAC	1	Pohakuloa TA	HI	Onsite	No
				ARNG	1	Ukumehame Firing Range	HI	Onsite	No
Hawaiian hawk	<i>Buteo solitarius</i>	E	Bird	ARNG	1	Hilo (Keaukaha Military R	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 R	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	Ukumehame Firing Range	HI	Onsite	No
Higgins Eye pearl mussel	<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</i> var. <i>recurva</i>	E	Plant	SW	2	Fort Huachuca	AZ	Onsite	Yes
Hulumoa	<i>Korthalsella degeneri</i>	C	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
Indiana bat	<i>Myotis sodalis</i>	E	Mammal	ARNG	3	Atterbury TS	IN	Onsite	No
				ARNG	3	Macon TS	MO	Contiguous	No
				ARNG	4	Tullahoma TS	TN	Contiguous	No
				BRAC	3	Jefferson Proving Ground	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	Contiguous	No
				NE	5	Picatinny Arsenal	NJ	Onsite	No
				NW	3	Iowa AAP	IA	Onsite	No
NW	3	Newport Chemical Activity	IN	Onsite	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

Common Name	Scientific Name (Genus, species)	Federal Listing Status	Category	IMA Region/ MACOM	FWS Region	Installation	State	Onsite/ Contiguous	Critical Habitat on Installation
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
Kaula	<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
				PAC	1	Makua Military Reservation	HI	Onsite	No
Lahontan cutthroat trout	<i>Oncorhynchus clarki henshawi</i>	T	Fish	SW	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
				ARNG	1	Camp San Luis Obispo	CA	Contiguous	No
				SW	1	Fort Hunter Liggett	CA	Contiguous	No
Least tern	<i>Sterna antillarum</i>	E	Bird	ARNG	6	Camp Ashland MTA/OMS 5	NE	Contiguous	No
				ARNG	4	Fort Chaffee	AR	Onsite	No
				ARNG	3	Ike Skeleton TS	MO	Contiguous	No
				NW	6	Fort Riley	KS	Onsite	No
Leatherback sea turtle	<i>Dermodochelys 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

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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
				PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
Marbled murrelet	<i>Brachyramphus marmoratus marmoratus</i>	T	Bird	ARNG	1	Camp Rilea	OR	Contiguous	No
Maryland darter	<i>Etheostoma sellare</i>	E	Fish	NE	5	Aberdeen Proving Ground	MD	Contiguous	No
Mehamehame	<i>Flueggea neowawraea</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
				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	2	Fort Huachuca	AZ	Onsite	Yes
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	SW	1	Presidio of Monterey Annex	CA	Onsite	No
Monterey spineflower	<i>Chorizanthe pungens</i> var. <i>pungens</i>	T	Plant	SW	1	Presidio of Monterey Annex	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
Mountain plover	<i>Charadrius montanus</i>	PT	Bird	NW	6	Fort Carson	CO	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

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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 horizontalonius var. 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>Alsinidendron obovatum</i>	E	Plant	PAC	1	Makua Military Reservation	HI	Onsite	No
None	<i>Alsinidendron trinerve</i>	E	Plant	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	No
None	<i>Asplenium fragile var. 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
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 ssp. 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

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None (cont'd)	<i>Pteris lidgatei</i>			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	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
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</i> <i>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	Corvallis or Camp Adair	OR	Contiguous	No
				NW	1	Fort Lewis	WA	Contiguous	Yes
O'ahu 'elepaio	<i>Chasiempis sandwichensis</i> <i>ibidis</i>	E	Bird	PAC	1	Schofield Barracks Military Reservation	HI	Onsite	Yes
				PAC	1	Kawailoa TA	HI	Contiguous	Yes
				PAC	1	Makua 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
Pallid sturgeon	<i>Scaphirhynchus albus</i>	E	Fish	ARNG	6	Camp Ashland MTA/OMS 5	NE	Contiguous	No

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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
ARNG	6	Camp Ashland MTA/OMS 5	NE	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
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

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Pupu kuahiwi (cont'd)	<i>Achatinella sowerbyana</i>			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
				SW	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				
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	SE	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
				SW	1	Fort Hunter Liggett	CA	Contiguous	No
				SW	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

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Shortnose sturgeon (cont'd)				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
Slick spot peppergrass	<i>Lepidium papilliferum</i>	PE	Plant	ARNG	1	Orchard Range TS	ID	Onsite	No
Small whorled pogonia	<i>Isotria medeoloides</i>	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
Smith's blue butterfly	<i>Euphilotes enoptes smithi</i>	E	Insect	SW	1	Presidio of Monterey Annex	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 eximius</i>	E	Bird	SW	2	Fort Huachuca	AZ	Contiguous	No
				SW	2	White Sands Missile Range	NM	Contiguous	No
Spectacled eider	<i>Somateria fischeri</i>	T	Bird	ARNG	7	Elim Armory	AK	Contiguous	No
				ARNG	7	Shaktolik 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
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
				ARNG	1	Camp San Luis Obispo	CA	Onsite	No
				E	NW	1	Yakima Training Center	WA	Onsite
Steller's eider	<i>Polysticta stelleri</i>	T	Bird	ARNG	7	Chevak Armory	AK	Contiguous	No
				ARNG	7	Kwigillingok Armory	AK	Contiguous	No
Stephens' kangaroo rat	<i>Dipodomys stephensi</i> (incl. <i>D</i>	E	Mammal	USAR	1	63rd RRC HQ	CA	Contiguous	No
Swamp pink	<i>Helonias bullata</i>	T	Plant	NE	5	Fort A.P. Hill	VA	Onsite	No
Tennessee yellow-eyed grass	<i>Xyris tennesseensis</i>	E	Plant	ARNG	4	Fort McClellan	AL	Onsite	No

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Tennessee yellow-eyed grass (cont'd)				SE	4	Anniston Army Depot	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
Vernal pool fairy shrimp	<i>Branchinecta lynchi</i>	T	Crustacean	ARNG	1	Camp Roberts TS	CA	Onsite	No
				SW	1	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
				PAC	1	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
Western sage grouse	<i>Centrocercus urophasianus phaios</i>	C	Bird	NW	1	Yakima Training Center	WA	Onsite	No
Western snowy plover	<i>Charadrius alexandrinus nivosus</i>	T	Bird	ARNG	1	Camp Rilea	OR	Contiguous	No
				SW	1	Presidio of Monterey Annex	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

Appendix D: ESMP Status and Installation Location by ARNG/IMA Region

Army National Guard

USFWS REGION	STATE	INSTALLATION	ESMP STATUS
1	CA	CAMP ROBERTS TRAINING SITE	Not Required
		CAMP SAN LUIS OBISPO	Not Required
		SANTA CRUZ ARMORY	Not Required
	HI	FORT RUGER	Current & Approved
		HILO (KEAUKAHA MILITARY RESERV	Current & Approved
		KEKAHA WETS	Current & Approved
		UKUMEHAME	Current & Approved
	ID	ORCHARD RANGE TS	Not Required
	NV	CLARK COUNTY COMPLEX	Not Required
		STEAD TRAINING SITE	Not Required
OR	CAMP RILEA	Current & Approved	
	CORVALLIS OR CAMP ADAIR	Current & Approved	
2	AZ	CAMP NAVAJO	Not Required
		FLORENCE MIL RSRVTN	Not Required
	OK	CAMP GRUBER TRAINING SITE	Not Required
	TX	CAMP BOWIE	Not Required
3	IN	ATTERBURY TNG SITE	Current & Approved
	MI	CAMP GRAYLING	Current & Approved
	MN	CAMP RIPLEY	Current & Approved
	MO	CAMP CROWDER	Current & Approved
		IKE SKELTON (JEFFERSON CITY)	Not initiated (0% complete)
		MACON TRAINING SITE	Current & Approved
	OH	TRUMAN RESERVOIR TRAINING SITE	Current & Approved
CAMP PERRY		Not initiated (0% complete)	
4	AL	FORT MCCLELLAN (ARNG)	Current & Approved
	AR	CAMP J.T. ROBINSON	Not Required
		FORT CHAFFEE MTC	Current & Approved
	FL	CAMP BLANDING FL	Not Required
	LA	CAMP BEAUREGARD	Current & Approved
	MS	CAMP SHELBY	Current & Approved
	SC	LEESBURG TRAINING SITE	Current & Approved
	TN	CATOOSA RANGE/TS	Current & Approved
TULLAHOMA TNG SITE		Current & Approved	
5	MD	BG THOMAS B. BAKER TS (formerly LII AARON STRAUSS)	Current & Approved
	NH	NHNG TRAINING SITE	Not Required
		NH STATE MILITARY RESERVATION	Not Required
	NJ	SEA GIRT ARMORY/NGTC/NJMA	Partially Complete
	NY	CAMP SMITH TRAINING SITE	Not Required
	VA	FORT PICKETT ARNG	Not initiated (0% complete)
6	KS	SALINA SMOKEY HILL MTA	Not Required
	MT	FORT HARRISON	Not Required
	ND	CAMP GRAFTON - ND	Current & Approved
		GARRISON TS	Not Required
	NE	CAMP ASHLAND MTA/OMS 5	Current & Approved
	HASTINGS TRNG SITE/UTES 1	Current & Approved	

Army National Guard (cont'd)

USFWS REGION	STATE	INSTALLATION	ESMP STATUS
6	UT	CEDAR CITY UT OMS 10C	Not Required
		ST GEORGE UT OMS 10B	Partially Complete
	WY	CAMP GUERNSEY	Not Required
		SHERIDAN LTA	Not Required
7	AK	CHEVAK ARMORY	Not Required
		ELIM ARMORY	Not Required
		KWIGILLINGOK ARMORY	Not Required
		SHAKTOOLIK ARMORY	Not Required
		ST MICHAEL ARMORY	Not Required
		STEBBINS ARMORY	Not Required
UNALAKLEET ARMORY	Not Required		

Army Reserves

USFWS REGION	STATE	INSTALLATION	ESMP STATUS
1	CA	63RD RRC HQ - LOS ALAMITOS	Current & Approved
	WA	70TH RRC HQ	Not Required
4	AL	81ST RRC HQ	Not Required

Base Realignment and Closure

USFWS REGION	STATE	INSTALLATION	ESMP STATUS
2	TX	LONGHORN AAP	Not Required
3	IL	SAVANNA ARMY DEPOT	Not Required
		INDIANA AAP	Current & Approved
		JEFFERSON PROVING GROUND	Not Required
6	CO	ROCKY MT. ARS (PMRMA)	Not Required
	KS	SUNFLOWER AAP	Not Required

Northeast Region

USFWS REGION	STATE	INSTALLATION	ESMP STATUS
5	MD	ABERDEEN PROVING GROUND (AA)	Current & Approved
		ADELPHI LABORATORY CENTER (ALC)	Current & Approved
	NJ	FORT DIX	Current & Approved
		PICATINNY ARSENAL	Partially Complete
	NY	WEST POINT	Current & Approved
	VA	FORT A P HILL	Current & Approved
		FORT BELVOIR	Current & Approved
		FORT EUSTIS	Current & Approved
		USA CASCOM & FORT LEE	Current & Approved

Northwest Region

USFWS REGION	STATE	INSTALLATION	ESMP STATUS
1	WA	FORT LEWIS	Current & Approved
		YAKIMA FIRING CENTER	Partially Complete
3	IA	IOWA AAP	Current & Approved
	IL	ROCK ISLAND ARSENAL	Current & Approved
	IN	NEWPORT CHEMICAL DEPOT	Current & Approved
	MO	FORT LEONARD WOOD	Partially Complete
	WI	FORT MCCOY	Current & Approved
6	CO	FORT CARSON	Current & Approved
		PUEBLO CHEMICAL DEPOT (has Candidate species only)	Current & Approved
	KS	FORT LEAVENWORTH	Not Required
	UT	FORT RILEY	Current & Approved
		DESERET CHEMICAL DEPOT	Not Required
		DUGWAY PROVING GROUND	Not Required

Pacific Region

USFWS REGION	STATE	INSTALLATION	ESMP STATUS
1	HI	DILLINGHAM MIL RES	Current & Approved
		KAHUKU TRAINING AREA	Current & Approved
		KAWAIOA TRAINING AREA	Current & Approved
		MAKUA MILITARY RESERVATION	Current & Approved
		POHAKULOA TRAINING AREA	Current & Approved
		SCHOFIELD BARRACKS MIL RES	Current & Approved
		TRIPLER ARMY MED CTR	Not Required

Southeast Region

USFWS REGION	STATE	INSTALLATION	ESMP STATUS
4	AL	ANNISTON ARMY DEPOT	Current & Approved
		FORT RUCKER	Not Required
		REDSTONE ARSENAL	Current & Approved
	GA	FORT BENNING	Current & Approved
		FORT GORDON	Current & Approved
		FORT STEWART	Current & Approved
	KY	BLUE GRASS ARMY DEPOT	Current & Approved
		FORT CAMPBELL	Current & Approved
		FORT KNOX	Current & Approved
	NC	FORT BRAGG	Current & Approved
		SUNNY POINT MOT	Partially Complete
	PR	FORT BUCHANAN	Current & Approved
	SC	FORT JACKSON	Current & Approved
	TN	HOLSTON AAP	Partially Complete

Southwest Region

USFWS REGION	STATE	INSTALLATION	ESMP STATUS
1	CA	FORT HUNTER LIGGETT	Partially Complete
		FORT IRWIN	Partially Complete
		PARKS RFTA	Current & Approved
		PRESIDIO OF MONTEREY	Current & Approved
		PRESIDIO OF MONTEREY ANNEX	Current & Approved
		SIERRA ARMY DEPOT	Not Required
	NV	HAWTHORNE ARMY DEPOT	Not Required
2	AZ	FORT HUACHUCA	Partially Complete
		YUMA PROVING GROUND	Not initiated (0% complete)
	NM	WHITE SANDS MISSILE RANGE	Current & Approved
	OK	FORT SILL	Current & Approved
		MCALESTER AAP	Current & Approved
	TX	FORT BLISS	Current & Approved
		FORT HOOD	Current & Approved
		FORT SAM HOUSTON	Partially Complete
LONE STAR AAP		Not Required	
4	AR	PINE BLUFF ARSENAL	Not Required
	LA	FORT POLK	Partially Complete

Appendix E: Installations with T&E Species Onsite

TIM Region/ MACOM	Installation	State	TIM Region/ MACOM	Installation	State
ARNG	Atterbury TS	IN	ARNG	Ike Skeleton TS	MO
ARNG	BG Thomas B. Baker TS (formerly Lil Aaron Strauss)	MD	ARNG	Kekaha WETS	HI
ARNG	Camp Blanding	FL	ARNG	Leesburg TS	SC
ARNG	Camp Bowie	TX	ARNG	Macon TS	MO
ARNG	Camp Crowder	MO	ARNG	Santa Cruz Armory	CA
ARNG	Camp Grafton	ND	ARNG	Sea Girt TS	NJ
ARNG	Camp Grayling	MI	ARNG	St. George UT OMS 10B	UT
ARNG	Camp Gruber TS	OK	ARNG	Stead TS	NV
ARNG	Camp Guernsey	WY	ARNG	Truman Reservoir TS	MO
ARNG	Camp Navajo	AZ	ARNG	Tullahoma TS	TN
ARNG	Camp Perry	OH	ARNG	Ukumehame Firing Range	HI
ARNG	Camp Rilea	OR	BRAC	Indiana AAP	IN
ARNG	Camp Ripley	MN	BRAC	Jefferson Proving Ground	IN
ARNG	Camp Roberts TS	CA	BRAC	Longhorn AAP	TX
ARNG	Camp San Luis Obispo	CA	BRAC	Rocky Mountain Arsenal	CO
ARNG	Camp Shelby	MS	BRAC	Savanna Army Depot	IL
ARNG	Catoosa Range/TS	TN	NE	Aberdeen Proving Ground	MD
ARNG	Corvalis or Camp Adair	OR	NE	Adelphi Army Research Laboratory	MD
ARNG	Florence Mil Res	AZ	NE	Fort A.P. Hill	VA
ARNG	Fort Chaffee	AR	NE	Fort Belvoir	VA
ARNG	Fort McClellan	AL	NE	Fort Dix	NJ
ARNG	Fort Pickett	VA	NE	Fort Eustis	VA
ARNG	Fort Ruger	HI	NE	Picatinny Arsenal	NJ
ARNG	Hilo (Keaukaha Military Reserv)	HI	NE	West Point Military Reservation	NY
NW	Fort Carson	CO	SE	Fort Knox	KY

TIM Region/ MACOM	Installation	State	TIM Region/ MACOM	Installation	State
NW	Fort Leavenworth	KS	SE	Fort Rucker	AL
NW	Fort Leonard Wood	MO	SE	Fort Stewart	GA
NW	Fort Lewis	WA	SE	Holston AAP	TN
NW	Fort McCoy	WI	SE	Military Ocean Terminal-Sunny Point	NC
NW	Fort Riley	KS	SE	Redstone Arsenal	AL
NW	Iowa AAP	IA	SW	Fort Bliss	TX
NW	Newport Chemical Activity	IN	SW	Fort Hood	TX
NW	Rock Island Arsenal	IL	SW	Fort Huachuca	AZ
NW	Yakima Training Center	WA	SW	Fort Hunter Liggett	CA
PAC	Dillingham Military Reservation	HI	SW	Fort Irwin	CA
PAC	Kahuku TA	HI	SW	Fort Polk	LA
PAC	Kawailoa TA	HI	SW	Fort Sam Houston	TX
PAC	Makua Military Reservation	HI	SW	Fort Sill	OK
PAC	Pohakuloa TA	HI	SW	Lonestar AAP	TX
PAC	Schofield Barracks Military Reservation	HI	SW	McAlester AAP	OK
SE	Anniston Army Depot	AL	SW	Parks RFTA	CA
SE	Blue Grass Army Depot	KY	SW	Pine Bluff Arsenal	AR
SE	Fort Benning	GA	SW	Presidio of Monterey	CA
SE	Fort Bragg	NC	SW	Presidio of Monterey Annex	CA
SE	Fort Buchanan	PR	SW	White Sands Missile Range	NM
SE	Fort Campbell	KY	SW	Yuma Proving Grounds	AZ
SE	Fort Gordon	GA	USAR	63rd RRC HQ	CA
SE	Fort Jackson	SC	USAR	81ST RRC HQ	AL

Appendix F: 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>Branchinecta lynchi</i>	Vernal pool fairy shrimp	T
<i>Achatinella byronii</i>	Pupu kuahiwi	E	<i>Branta sandvicensis</i>	Hawaiian goose	E
<i>Achatinella curta</i>	Pupu kuahiwi	E	<i>Bufo californicus</i>	Arroyo toad	E
<i>Achatinella decipiens</i>	Pupu kuahiwi	E	<i>Buteo solitarius</i>	Hawaiian hawk	E
<i>Achatinella leucorraphe</i>	Pupu kuahiwi	E	<i>Canis lupus</i>	Gray wolf	T
<i>Achatinella lila</i>	Pupu kuahiwi	E	<i>Cenchrus agrimonioides</i>	Kamanomano	E
<i>Achatinella livida</i>	Pupu kuahiwi	E	<i>Chamaesyce celastroides</i> var. <i>kaenana</i>	`Akoko	E
<i>Achatinella mustelina</i>	Pupu kuahiwi	E	<i>Chamaesyce deltoidea</i> ssp. <i>deltoidea</i>	Deltoid spurge	E
<i>Achatinella pulcherrima</i>	Pupu kuahiwi	E	<i>Chamaesyce rockii</i>	`Akoko	E
<i>Achatinella sowerbyana</i>	Pupu kuahiwi	E	<i>Charadrius alexandrinus nivosus</i>	Western snowy plover	T
<i>Acipenser brevirostrum</i>	Shortnose sturgeon	E	<i>Charadrius melodus</i>	Piping plover	T
<i>Alectryon macrococcus</i>	Mahoe	E	<i>Chasiempis sandwichensis ibidus</i>	O'ahu 'elepaio	E
<i>Alligator mississippiensis</i>	American alligator	T(S/A)	<i>Chlorogalum purpureum</i>	Purple amole	T
<i>Alsinidendron obovatum</i>	None	E	<i>Chorizanthe pungens</i> var. <i>pungens</i>	Monterey spineflower	T
<i>Alsinidendron trinerve</i>	None	E	<i>Cicurina madla</i>	Madla's Cave Meshweaver	E
<i>Amaranthus pumilus</i>	Seabeach amaranth	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>Aphelocoma coerulescens</i>	Florida scrub jay	T	<i>Cyanea acuminata</i>	Haha	E
<i>Apios priceana</i>	Price's potato-bean	T	<i>Cyanea crispa</i>	None	E
<i>Arctomecon humilis</i>	Dwarf bear-poppy	E	<i>Cyanea humboldtiana</i>	Haha	E
<i>Asplenium fragile</i> var. <i>insulare</i>	None	E	<i>Cyanea koolauensis</i>	Haha	E
<i>Astragalus jaegerianus</i>	Lane Mountain milk- vetch	E	<i>Cyanea st-johnii</i>	Haha	E
<i>Bonamia menziesii</i>	None	E	<i>Cyanea superba</i>	Haha	E

Scientific Name (Genus, species)	Common Name	Federal Listing Status	Scientific Name (Genus, species)	Common Name	Federal Listing Status
<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>	Todsens 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 horizontalonius var. nicholii</i>	Nichol's Turk's head cactus	E	<i>Helonias bullata</i>	Swamp pink	T
<i>Epicrates inornatus</i>	Puerto Rican boa	E	<i>Hemignathus munroi</i>	Akiapola`au (honeycreeper)	E
<i>Eugenia koolauensis</i>	Nioi	E	<i>Hesperomannia arborescens</i>	None	E
<i>Euphilotes enoptes smithi</i>	Smith's blue butterfly	E	<i>Hibiscus brackenridgei</i>	Ma`o hau hele	E
<i>Euphorbia haeleeleana</i>	`Akoko	E	<i>Himantopus mexicanus knudseni</i>	Hawaiian stilt	E
<i>Falco femoralis septentrionalis</i>	Northern aplomado falcon	E	<i>Holocarpha macradenia</i>	Santa Cruz tarplant	T
<i>Flueggea neowawraea</i>	Mehamehame	E	<i>Howellia aquatilis</i>	Water howellia	T
<i>Fulica americana alai</i>	Hawaiian coot	E	<i>Isodendron longifolium</i>	Aupaka	T
<i>Gallinula chloropus sandvicensis</i>	Hawaiian common moorhen	E	<i>Isoetes louisianensis</i>	Louisiana quillwort	E
<i>Gardenia mannii</i>	Nanu	E	<i>Isotria medeoloides</i>	Small whorled pogonia	T
<i>Gilia tenuiflora ssp. arenaria</i>	Monterey gilia	E	<i>Labordia cyrtandrae</i>	Kamakahala	E
<i>Gopherus agassizii</i>	Desert tortoise	T	<i>Lampsilis higginsii</i>	Higgins Eye pearl mussel	E
<i>Gopherus agassizii</i>	Desert tortoise	T (S/A)	<i>Lasiurus cinereus semotus</i>	Hawaiian hoary bat	E

Scientific Name (Genus, species)	Common Name	Federal Listing Status	Scientific Name (Genus, species)	Common Name	Federal Listing Status
<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 yerbabuena</i>	Lesser long-nosed bat	E	<i>Oncorhynchus mykiss</i>	Steelhead	E
<i>Lilaeopsis schaffneriana</i> var. <i>recurva</i>	Huachuca water-umbel	E	<i>Oncorhynchus mykiss</i>	Steelhead	T
<i>Lipochaeta tenuifolia</i>	Nehe	E	<i>Oncorhynchus tshawytscha</i>	Chinook Salmon	E
<i>Lobelia gaudichaudii</i> ssp. <i>koolauensis</i>	None	E	<i>Ottoschulzia rhodoxylon</i>	Palo de rosa	E
<i>Lobelia niihauensis</i>	None	E	<i>Palaemonias alabamiae</i>	Alabama cave shrimp	E
<i>Lobelia oahuensis</i>	None	E	<i>Panicum niihauense</i>	Lau `ehu	E
<i>Loxioides bailleui</i>	Palila	E	<i>Percina rex</i>	Roanoke logperch	E
<i>Lupinus sulphureus</i> var. <i>kincaidii</i>	Kincaid's Lupine	T	<i>Phyllostegia hirsuta</i>	None	E
<i>Lycaeides melissa samuelis</i>	Karner blue butterfly	E	<i>Phyllostegia mollis</i>	None	E
<i>Lycopodium nutans</i>	Wawae`iole	E	<i>Picoides borealis</i>	Red-cockaded woodpecker	E
<i>Lysimachia asperulaefolia</i>	Rough-leaved loosestrife	E	<i>Piperia yadonii</i>	Yadon's piperia	E
<i>Marshallia mohrii</i>	Mohr's Barbara button	T	<i>Plantago princeps</i>	Kuahiwi laukahi	E
<i>Melicope lydgatei</i>	Alani	E	<i>Portulaca sclerocarpa</i>	Po`e	E
<i>Mycteria americana</i>	Wood stork	E	<i>Pritchardia kaalae</i>	Lo'ulu	E
<i>Myotis grisescens</i>	Gray bat	E	<i>Pteris lidgatei</i>	None	E
<i>Myotis sodalis</i>	Indiana bat	E	<i>Pterodroma phaeopygia sandwichensis</i>	Hawaiian dark-rumped petrel	E
<i>Myrsine juddii</i>	Kolea	E	<i>Ptilimnium nodosum</i>	Harperella	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> var. <i>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
<i>Nototrichium humile</i>	Kulu`i	E	<i>Rhododendron chapmanii</i>	Chapman's rhododendron	E

Scientific Name (Genus, species)	Common Name	Federal Listing Status	Scientific Name (Genus, species)	Common Name	Federal Listing Status
<i>Rhus michauxii</i>	Michaux's sumac	E	<i>Urera kaalae</i>	Opuhe	E
<i>Sanicula marivera</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			
<i>Trifolium stoloniferum</i>	Running buffalo clover	E			
<i>Trillium reliquum</i>	Relict trillium	E			