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XECUTIVE SUMMARY

The Army has identified 188 threatened and endangered (T&E) species on 99 installations for fiscal year (FY) 2007. By far the most common category is plants, which account for 62 percent of the T&E species (Figure 1), followed by birds (14 percent). The other categories of T&E species are amphibians, crustaceans, fish, insects, mammals, other invertebrates, reptiles, and snails.

The following are highlights of critical habitat in FY 2007:

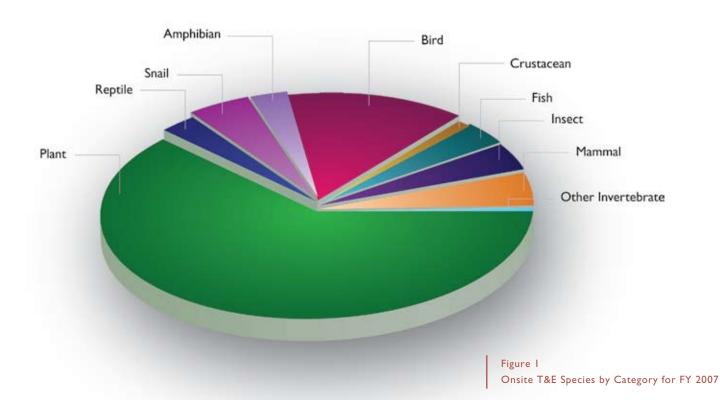
- Fourteen species with critical habitat designations are reported on 15 Army installations.
- Two installations reported new critical habitat designations: Local Training Area-Aviation (Weyerhaeuser), WA; and Presidio of Monterey, CA.
- Makua Military Reservation, HI, reported critical habitat contiguous¹ to the installation for 31 species.
- Critical habitat for the northern spotted owl is no longer designated at Fort Lewis, WA.

 Three installations avoided new critical habitat designations; those instances involved Kincaid's lupine at Corvallis/Camp Adair, OR; and the southern resident killer whale at Fort Lewis and Pier 23, WA.

During FY 2007, the Army spent \$45.09 million on T&E species management. This sum included Endangered Species Act (ESA) reportable expenditures of \$35.83 million and non-reportable expenditures of \$9.26 million² (see Figure 2). These amounts do not include expenditures by military operations or military construction for work-arounds and avoidance.

The 10 installations with the highest reportable expenses accounted for 68 percent of the Army's total reportable expenses (Table I). The red-cockaded woodpecker and desert tortoise required the most expenditure of all species—not just in FY 2007, but also cumulatively for the past 5 years (Tables 2 and 3). Table 2 shows the top 10 species, in terms of expenditures, for FY 2007 and FY 2006.

Appendixes A, B, and C provide data on all the installations and federally designated threatened, endangered, proposed, and candidate (TEPC) species reported in FY 2007. The data have been sorted by installation, scientific name, and common name to allow for quick and easy reference.



¹ Critical habitat adjacent to an installation that could be affected by installation actions

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²The Endangered Species Act requires federal agencies to report expenses. Reportable expenses are those associated directly with a specific, individual species; non-reportable expenses are those spent on multi-species projects where no specific amount is attributable to individual listed species.

Figure 2
Reportable and NonReportable T&E Expenses

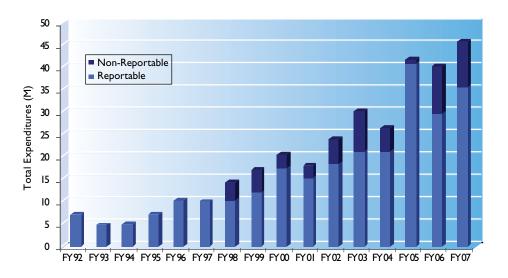


Table I Top 10 T&E Expenditures by Installation for FY 2007

INSTALLATION	REPORTABLE EXPENDITURES (\$K)			
National Training Center and Fort Irwin	\$4,707.2			
Makua Military Reservation	\$4,442.2			
Pohakuloa Training Area	\$3,907.8			
Fort Benning	\$2,348.0			
Aberdeen Proving Ground	\$2,050.0			
Fort Bragg	\$1,919.4			
Schofield Barracks	\$1,782.4			
Kawailoa Training Area	\$1,188.3			
Fort Huachuca	\$1,138.5			
Fort Hood	\$1,100.0			

FY 2007 FY 2006

COMMON NAME	SCIENTIFIC NAME	EXPENDITURE (\$K)	COMMON NAME	SCIENTIFIC NAME	EXPENDITURE (\$K)
Woodpecker, red-cockaded	Picoides borealis	\$6,908.8	Woodpecker, red-cockaded	Picoides borealis	\$5,654.4
Tortoise, desert (U.S.A., except in Sonoran Desert)	Gopherus agassizii	\$4,814.3	Eagle, bald	Haliaeetus leucocephalus	\$2,576.7
Eagle, bald	Haliaeetus leucocephalus	\$2,368.6	Tortoise, desert (U.S.A., except in Sonoran Desert)	Gopherus agassizii	\$2,461.9
Bat, Indiana	Myotis sodalis	\$1,706.2	Bat, Indiana	Myotis sodalis	\$1,594.2
Tortoise, gopher	Gopherus polyphemus	\$1,288.3	Tortoise, gopher	Gopherus polyphemus	\$1,144.0
Vireo, black-capped	Vireo atricapilla	\$863.7	Vireo, black-capped	Vireo atricapilla	\$1,032.9
Warbler (=wood), golden-cheeked	Dendroica chrysoparia	\$833.0	Warbler (=wood), golden-cheeked	Dendroica chrysoparia	\$625.0
Owl, Mexican spotted	Strix occidentalis lucida	\$452.5	Bat, gray	Myotis grisescens	\$587.7
Bat, gray	Myotis grisescens	\$451.3	Owl, Mexican spotted	Strix occidentalis lucida	\$382.9
Water-umbel, Huachuca	Lilaeopsis schaffneriana var. recurva	\$330.0	None	Spermolepis hawaiiensis	\$339.4
Total		\$20,015.7	Total		\$16,399.1

Table 2
Top T&E Expenditures by Species for FY 2007 and FY 2006

Table 3
Top T&E
Expenditures by
Species FY 2003 —
FY 2007

COMMON NAME	SCIENTIFIC NAME	EXPENDITURE (\$K)
Tortoise, desert	Gopherus agassizii	\$33,410.7
Woodpecker, red-cockaded	Picoides borealis	\$25,646.2
Eagle, bald	Haliaeetus leucocephalus	\$9,139.7
Vireo, black-capped	Vireo atricapilla	\$6,225.6
Bat, indiana	Myotis sodalis	\$6,122.3
Warbler, golden-cheeked	Dendroica chrysoparia	\$5,561.0
Tortoise, gopher	Gopherus polyphemus	\$5,312.3
Bat, gray	Myotis grisescens	\$3,247.2
Owl, Mexican spotted	Strix occidentalis lucida	\$1,575.3
Flycatcher, Southwestern willow	Empidonax traillii extimus	\$1,454.9
Total		\$97,695.2



NTRODUCTION

Background

The Army's mission is to provide national defense. However, as a federal agency, the Army is also required by the ESA to conserve the federally listed T&E species that occur on the lands where it conducts the training of soldiers, testing of weapons, and all other functions essential for national defense. Data collection efforts provide the Army with information to monitor and manage TEPC species, at risk (SAR), and their habitats (refer to pages 28-31 for definitions of acronyms). Each year, installations enter data on TEPC species into the Army Environmental Database - Environmental Quality (AEDB-EQ) to provide Headquarters, Department of the Army (HQDA) with a list of TEPC species occurring within their boundaries and on land contiguous to them. This information enables the Army to assess the status of its TEPC species nationwide, to plan for expenditures related to TEPC species, to deal proactively with any potential conflicts between TEPC species and the military mission and management efforts, and to implement proactive conservation measures that benefit candidate species and SAR to help prevent the need to list them as threatened or endangered. The information provided in this report only reflects those TEPC species that are found on or adjacent to property owned or leased by the Army. The Army also trains on land owned by other military services. Such lands may have restrictions due to listed or proposed species that affect timing, duration, and intensity of training, such as Army National Guard (ARNG) training on Camp Pendleton or Eglin Air Force Base. The respective service landowner reports these species, so they are not captured in this report. However, the Army is still required to comply with ESA for actions on these sites; therefore, the Army's financial responsibility for ESA compliance extends beyond Army owned or leased properties. This report does not address TEPC species 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 AEDB-EQ, nor are they required to prepare Integrated Natural Resources Management Plans (INRMPs) under the Sikes Act (Public Law 86-797, as amended; 16 United States Code (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 close or dispose of BRAC property.

Objective

The objective of this report is to analyze and communicate the most current TEPC species information from the FY 2007 AEDB-EQ and other available data sources. These data will help the Army comply with its obligations under the ESA and perform 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 AEDB-EQ and other sources. The U.S. Army Environmental Command (USAEC) provided the AEDB-EQ data and other information obtained from the U.S. Fish and Wildlife Service (FWS), National Oceanic and Atmospheric Administration - National Marine Fisheries Service (NOAA-Fisheries), Commands, and installations. Installation management stories and photographs were collected directly from installations through the chain of command.

Scope

This report encompasses Army installations with federally listed species onsite or on contiguous land as of the end of FY 2007 (30 September 2007). The bald eagle is reported here as threatened; however, it was delisted late in the FY (8 August 2007). Federally listed species designations include: threatened, endangered, proposed threatened, proposed endangered, or candidate. For practical purposes, the survey represents a complete census of Army installations with TEPC species. The USAEC tracks the interim status of all information, including new federal listings, species status, and critical habitat designations on Army lands. The USAEC provides electronic mail distribution of information from the Federal Register and other sources.

Organization of This Report

This report features changes from the FY 2006 report, a summary of significant information and data for FY 2007, highlighted subjects of conservation and Army management, and a section on migratory birds. Definitions, acronyms, and references are included in the final three sections of the report. The five appendixes are included for convenient, quick reference for specific species and installation data.



C HANGES FROM FY 2006 THREATENED, ENDANGERED, PROPOSED AND CANDIDATE SPECIES SURVEY

Table 4 shows 44 species reported on or contiguous to installations in FY 2007 that were not reported in FY 2006. The newly reported species include 33 plants, 5 mammals, 2 insects, 2 snails, I bird, and I reptile. Thirty-one of the species are reported from installations in Hawaii. See Appendixes A, B, or C for information about whether these species are reported as occurring onsite or on lands contiguous to the installations.

Table 4
Species Reported in FY 2007 that were not Reported in FY 2006

CATEGORY	COMMON NAME	SCIENTIFIC NAME	STATUS	INSTALLATION
Bird	Tern, California Least	Sterna antillarum browni	E	PFC L.T. Baccigleiri Hall AFRC and AMSA 13 (M), Mare CA Isle
Insect	Damselfly, blackline Hawaiian	Megalagrion nigrohamatum nigrolineatum C		Kawailoa TA
Insect	Damselfly, crimson Hawaiian	Megalagrion leptodemus	T	Schofield Barracks
Mammal	Kangaroo rat, giant	Dipodomys ingens	E	Leymel Hall USARC
Mammal	Kangaroo rat, San Bernardino Merriam's	Dipodomys merriami parvus	E	March USARC/AMSA 19 (G)
Mammal	Mouse, Pacific pocket	Perognathus longimembris pacificus	E	March USARC/AMSA 19 (G)
Mammal	Rabbit, New England cottontail	Sylvilagus transitionalis	C	Hollis Plains TS
Mammal	Whale, beluga	Delphinapterus leucas	PE	Fort Richardson
Plant	Aiakeakua, popolo	Solanum sandwicense	E	Makua Military Reservation
Plant	Aiea	Nothocestrum latifolium	C	Makua Military Reservation
Plant	Akoko	Euphorbia haeleeleana	E	Makua Military Reservation
Plant	Alani	Melicope hiiakae	C	Kawailoa TA
Plant	Alani	Melicope pallida	E	Makua Military Reservation
Plant	Aupaka	Isodendrion hosakae	E	Pohakuloa TA
Plant	Boyd's maiden fern	Christella boydiae	C	Kawailoa TA
Plant	Brodiaea, thread-leaved	Brodiaea filifolia	T	Tustin USARC
Plant	Daisy, Parish's	Erigeron parishii	T	March USARC/AMSA 19 (G)
Plant	Fiddleneck, large-flowered	Amsinckia grandiflora	E	PFC L.T. Baccigleiri Hall AFRC
Plant	Haha	Cyanea calycina	C	Kawailoa TA and Schofield Barracks
Plant	Haha	Lobelia niihauensis	E	Makua Military Reservation and Schofield Barracks
Plant	Hulumoa	Korthalsella degeneri	C	Makua Military Reservation
Plant	Kampua`a	Hedyotis fluviatilis	C	Kawailo TA
Plant	Kauila	Colubrina oppositifolia	E	Makua Military Reservation
Plant	Kaulu	Pteralyxia macrocarpa	C	Kahuku TA, Kawailoa TA, Makua Military Reservation and Schofield Barracks
Plant	Ma`oli`oli	Schiedea kealiae	E	Dillingham Military Reservation
Plant	Makou	Peucedanum sandwicense	T	Makua Military Reservation
Plant	Noho, Kula wahine	Isodendrion pyrifolium	E	Makua Military Reservation
Plant	No Common Name	Bonamia menziesii	E	Makua Military Reservation
Plant	No Common Name	Gouania vitifolia	E	Makua Military Reservation
Plant	No Common Name	Lipochaeta venosa	E	Pohakuloa TA
Plant	No Common Name	Lobelia oahuensis	E	Kawailoa TA, Makua Military Reservation and Schofield Barracks
Plant	No Common Name	Mariscus pennatiformis	E	Makua Military Reservation
Plant	No Common Name	Phlegmariurus nutans	E	Kawailoa TA and Schofield Barracks
Plant	No Common Name	Phyllostegia parviflora	E	Kawailoa TA
Plant	No Common Name	Platydesma cornuta cornuta	C	Kawailoa TA and Makua Military Reservation
Plant	No Common Name	Platydesma cornuta descurrens	C	Schofield Barracks
Plant	No Common Name	Vigna o-wahuensis	E	Pohakuloa TA
Plant	Pauoa	Ctenitis squamigera	E	Makua Military Reservation and Schofield Barracks
Plant	Slickspot Peppergrass	Lepidium Papilliferum	PE	Orchard Range TS Boise
Plant	Sunburst, Hartweg's golden	Pseudobahia bahiifolia	E	63rd RRC
Plant	Wooly-threads, San Joaquin	Monolopia congdonii	E	Leymel Hall USARC
Reptile	Lizard, Coachella Valley fringe-toed	Uma inornata	Ţ	March USARC/AMSA 19 (G)
Snail	Pupu kuahiwi	Achatinella curta	E	Kahuku TA and Kawailoa TA
Snail	Pupu kuahiwi	Achatinella pulcherrima	E	Kawailoa TA

Note: E = endangered; C = candidate; T = threatened; and PE = proposed as endangered

Table 5 shows eight species that were no longer reported on or contiguous to any Army installation in FY 2007 due to new distribution information, installation closures (and thus the installations are not reporting data), or the fact that the species is no longer recorded by an installation. The species in Table 5 represent a total of nine installations.

CATEGORY	COMMON NAME	COMMON NAME SCIENTIFIC NAME S		INSTALLATION
Bird	Shrike, San Clemente loggerhead	Lanius Iudovicianus mearnsi	E	63rd RRC - March USARC
Clam	Pearlymussel, Higgins' eye	Lampsilis higginsi	E	Savanna Depot Activity
Fish	Darter, Maryland	Etheostoma sellare	E	Aberdeen Proving Ground
Mammal	Prairie dog, Utah	Cynomys parvidens	Ţ	Cedar City
Plant	No common name Lycopodium nutans		E	Kawailoa TA and Schofield Barracks
Plant	No common name	Phyllostegia mollis	E	Schofield Barracks
Plant	Spineflower, robust	Chorizanthe robusta (incl. vars. robusta & hartwegii)	E	LTA - Moss Landing & Marina USARC/OMS/AMSA 12 S-S
Plant	Thornmint, San Mateo	Acanthomintha obovata ssp. Duttonii	E	Fort Hunter Liggett

SUMMARY INFORMATION

Installation and Species Information

For the FY 2007 reporting period, information was collected from a total of 133 installations that have TEPC species either onsite or on contiguous lands. Of those responding, 105 installations (78.9 percent) reported TEPC species onsite and 28 installations (21.1 percent) reported only having TEPC species on contiguous lands. White Sands Missile Range reported the Northern Aplomado falcon as proposed threatened. Two installations reported proposed endangered species: slickspot peppergrass at Orchard Range and the beluga whale at Fort Richardson. Table 6 shows that 259 TEPC species³ were recorded onsite or contiguous to Army installations in FY 2007, 178 (69 percent) are endangered, 57 (22 percent) are threatened. By category, 56 percent of the TEPC species are plants, 13 percent are birds, 8 percent are mammals, 6 percent are insects, 5 percent are fish, 5 percent are reptiles, 4 percent are snails, 2 percent are amphibians, and the remaining I percent are crustaceans and other invertebrates. The 133 installations with onsite or contiguous TEPC species include 11 Army Materiel Command (AMC), 57 Army National Guard (ARNG), 10 Installation Management Command (IMCOM) Northeast Region (NERO), 8 IMCOM Pacific Region (PARO), 12 IMCOM Southeast Region (SERO), 20 IMCOM West Region (WEST), 11 U.S. Army Reserve – 63rd Regional Readiness Command (RRC), 3 U.S. Army Reserve – 70th RRC, and I U.S. Army Reserve - 88th RRC. Table 7 summarizes the numbers of TEPC species that occur within the Commands.

Table 6
Federal Status of Onsite or Contiguous TEPC Species by Category for FY 2007

CATEGORY	THREATENED**	ENDANGERED	CANDIDATE	PROPOSED THREATENED	PROPOSED ENDANGERED	TOTAL
CATEGORI	INNEATENED	ENDANGENED	CANDIDATE	TROPOSED THREATENED	FROFOSED ENDANGERED	IVIAL
Amphibians	3	3	0	0	0	5*
Birds	9	21	3	<u> </u>	0	33*
Crustaceans	1	I	0	0	0	2
Fish	8	6	1	0	0	14*
Insects	4	7	4	0	0	15
Other Invertebrate	0	I	0	0	0	1
Mammals	4	15	2	0	I	20*
Plants	19	Ш	13	0	I	144
Reptiles	9	3	3	0	0	14*
Snails	0	10	I	0	0	П
Total	57	178	27	1	2	

^{*}Steelhead (T/E), Northern Aplomado Falcon proposed as threatened (PT/E), Gray Wolf, California Tiger Salamander (T/E), Desert Tortoise (T/Threatened (similarity of appearance), and Preble's Meadow Jumping Mouse (T/E) treated as one species in total though included in the other column listings.

Table 7
Federal Status of Onsite or Contiguous TEPC Species Reported by Command

COMMAND	THREATENED	ENDANGERED	CANDIDATE	PROPOSED THREATENED	PROPOSED ENDANGERED	TOTAL	# OF RECORDS REPORTED	# OF INSTALLATIONS W/ ONSITE T&Es
AMC	3	7	0	0	0	10	15	8
ARNG*	28	45	3	0	ı	76	119	41
NERO	4	2	0	0	0	6	16	9
PARO	4	97	12	0	I	114	166	5
SERO	7	17	I	0	0	25	47	H H
USAR-63rd RRC	14	12	I	0	0	27	32	4
USAR-70th RRC	5	I	0	0	0	6	7	2
USAR-88th RRC	0	ı	0	0	0	I	1	
WEST*	20	32	10	I	0	60	88	18

^{*}California Tiger Salamander (T/E), Northern Aplomado Falcon (PT/E), Desert Tortoise T/T(SA), and Steelhead (T/E) treated as one species in total though under two categories.

^{**}Includes T(SA).

³ Species that have more than one federal designation are counted as only one species for this statistic.

Threatened and Endangered Species

The Army has 188 distinct T&E species on 99 installations. A total of 230 different T&E species (453 occurrences) were identified by 129 installations that reported having onsite or contiguous TEPC species. Of the 129 installations, 99 reported having onsite and contiguous or just onsite T&E species. The remaining 30 installations reported having only contiguous T&E species. Of the 230 T&E species, 188 species occurred onsite and the remaining 42 species were reported as being contiguous to at least one installation and not onsite at any installation (Table 8). See Appendixes D and E, respectively, for a list of installations with T&E species onsite and of all the T&E species found onsite at Army installations.

Table 8
Installations Reporting T&E Species for FY 2007

CATEGORY	ONSITE	CONTIGUOUS ONLY	TOTAL
Number of Installations	99	30	129
Number of Distinct Species	188	42	230
Number of Species Occurrences	359	94	453

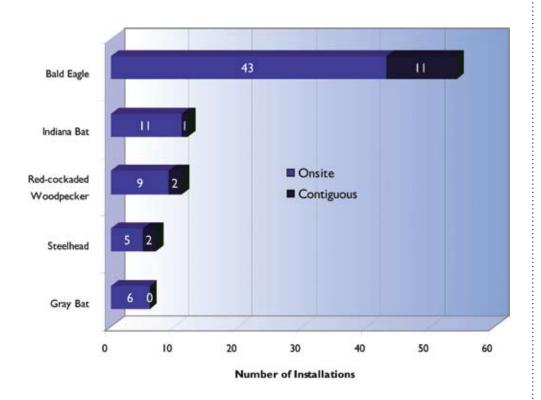


Figure 4
Most Commonly Reported T&E Species on Army Installations in FY 2007

Figure 4 shows that the bald eagle was the most commonly reported T&E species on Army installations. Fifty-four installations reported the bald eagle, of which 43 of them identified the eagle as onsite. The Indiana bat is second to the eagle with 12 installations reporting the bat as onsite or contiguous; the red-cockaded woodpecker is third with 11 installations recording them.

IMCOM Pacific Region Hawaii installations have the most T&E species occurrences (138): Makua Military Reservation with 48 onsite or contiguous, Schofield Barracks with 43, Kawailoa Training Area with 28, and Pohakuloa Training Area with 19. Fort Hunter Liggett, Fort Lewis, Military Ocean Terminal Sunny Point, and Maneuver Training Center (MTC) Camp Blanding each have eight or nine onsite or contiguous T&E species. Figure 4 identifies the installations with the most recorded T&E species.

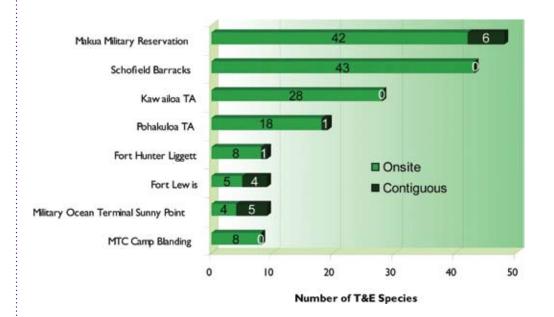


Figure 4
Installations with the most T&E Species in FY 2007

Proposed and Candidate Species

A total of 27 distinct candidate species and 3 proposed (threatened or endangered) species were identified as onsite at 17 installations (Table 9).

Table 9
Installations Reporting Proposed and Candidate Species for FY 2007

	CANDIDATE		PROPOSED	THREATENED	PROPOSED I	D ENDANGERED	
	ONSITE	CONTIGUOUS	ONSITE	CONTIGUOUS	ONSITE	CONTIGUOUS	TOTAL
Number of Installations*	15	0	I	0	2	0	17
Number of Distinct Species	27	0	I	0	2	0	30

^{*}WSMR is counted as one installation in total, though it reports one candidate and one proposed threatened species.



New England cottontail rabbit

What is a Candidate Species?

U.S. FISH AND WILDLIFE SERVICE CANDIDATE SPECIES

Candidate species are not afforded protection under the ESA. However, they are eligible for listing and could be proposed for listing or be emergency listed at any time. A species becomes a candidate in one of two ways: via petition or an FWS internal process.

- Petition—A person and/or group submits a petition to the FWS to list a species under the ESA. Petitions are a factual argument justifying why a species should be listed in accordance with any of the five listing factors identified in ESA Section 4(a)(1) (see Definitions). When the FWS receives such a petition, it has 90 days to determine and then publish in the Federal Register, whether the information in the petition and within its files presents substantial scientific or commercial information indicating that listing the species may be warranted. There are two possible outcomes of a 90-day finding:
 - If the FWS determines that the information available does not warrant listing the species, then it takes no further action on the petition, and the species is no longer considered for listing, at least at that time.
 - If the FWS determines that listing may be warranted, then it will initiate a I2-month status review of the species to determine if proposing a rule to list the species is warranted. The FWS reviews all the available scientific and commercial information on the species; then, after the I2-month period, it publishes its findings in the Federal Register. A I2-month review can result in three potential findings:
 - Listing is not warranted.
 - Listing is warranted, but is precluded by listing actions with higher priority; the species becomes a candidate.
 - Listing is warranted, and a rule to list the species is proposed.
- FWS internal process—On 5 December 1996 (61 FR 64481), the FWS made a final decision to include as candidate species those species for which it had sufficient information on file on biological vulnerability and threats to support issuing a proposed rule to list the species, but for which a proposed rule was precluded. This standard for making a species a candidate is identical to the standard for making a "warranted-but-precluded" 12-month finding on a petition to list.

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

NATIONAL MARINE FISHERIES SERVICE CANDIDATE SPECIES

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

DURATION OF CANDIDATE STATUS

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

Experimental Populations Under the ESA

The FWS and NOAA-Fisheries have the authority to reintroduce populations of a listed species into unoccupied portions of the species' historical range when doing so would foster the conservation and recovery of the species. Under Section 10(j) of the ESA, FWS or NOAA-Fisheries can designate reintroduced populations established outside the species' current range, but within its historical range, as "experimental."

The FWS or NOAA-Fisheries determine whether an experimental population is "essential" or "non-essential" to the continued existence of the species. Regulatory restrictions are considerably different between the two designations. Species designated as "essential experimental populations" are afforded the full protection of the ESA. However, according to the FWS' Threatened and Endangered Species System queried in November 2008, no reintroduced listed species have been given this designation. All experimental population designations to date are "non-essential."

Under ESA Section 9, a reintroduced species designated as a "non-essential experimental population" (NEP) is treated as threatened or proposed threatened, depending on where it is located.

Within a National Wildlife Refuge or unit of the National Park System, a NEP is treated as a threatened species in which all the provisions of the ESA apply. When an NEP is located on other federal property, the population is treated as a proposed species and Section 7(a)(1) and Section 7(a)(4) apply. ESA Section 7(a)(4) requires federal agencies to confer (not consult) with the FWS or NOAA-Fisheries on actions that are likely to jeopardize the continued existence of a proposed species. The results of a conference are advisory in nature and do not restrict agencies from carrying out, funding, or authorizing activities.

5-Year Status Review

Section 4(c)(2)(A) of the ESA requires the FWS and NOAA-Fisheries to conduct a review of all listed species at least once every 5 years. This 5-year review is to assist the agencies in determining whether the listed species should be removed from the ESA list, be uplisted from threatened to endangered, be downlisted from endangered to threatened, or retain their status quo. The 5-year review considers all new information available at the time of the review. In conducting these reviews, the FWS and NOAA-Fisheries consider the best scientific and commercial data that have become available since the current listing determination or most recent status review, such as

- species biology, including, but not limited to, population trends, distribution, abundance, demographics, and genetics;
- habitat conditions, including, but not limited to, amount, distribution, and suitability;
- conservation measures that have been implemented that benefit the species;



Honohono in bloom.

US Army Garrison, HI

- threat status and trends (see the five factors in Definitions, Listing Factors); and
- other new information, data, or corrections, including, but not limited to, taxonomic or nomenclatural changes, identification of erroneous information contained in the list, and improved analytical methods.

Information submitted by an installation could provide the agencies with a better understanding of a species to support its potential downlisting or delisting. A 5-year review also gives an installation the opportunity to furnish the FWS or NOAA-Fisheries with information on how its INRMP benefits a species.

Petition Action - Delisting

Petitions are not only submitted to the FWS or NOAA-Fisheries for the listing of species, but they are also submitted for the delisting of species, as well as uplisting species, designating critical habitat, and removing critical habitat. As with a petition to list, a delisting petition must address the factors that lead to the listing of the species in the first place. The FWS or NOAA-Fisheries then have 90 days to review the petition and available information and publish their findings in the Federal Register. This 90-day standard is not always met. Due to other priorities and staffing issues, 90-day findings are sometimes rendered beyond the 90 day period. An intent to sue or court orders are sometimes the impetus to complete 90-day findings, 12-month reviews, or 5-year status reviews.



Bald eagle at Rock Island Arsenal, IL

Gloria Keeslar

The process continues along the same lines as the listing petition, with either a determination that the petition action may be warranted or is not warranted. If warranted, a 12-month review is conducted, and the outcome can either be a proposed rule to delist or downlist, or a not-warranted finding. Section 4(g)(1) of the ESA requires that a recovered species must be monitored for at least 5 years after delisting. If signs appear that the delisted/recovered population is experiencing population declines or threats, then the FWS or NOAA-Fisheries could propose to list that species again, or a third party could submit a petition to list it.

Species at Risk

The Department of Defense (DoD) Legacy Program funded a cooperative FWS and DoD project to identify SAR on military installations.4 NatureServe prepared the report and delivered it to DoD in 2002 (DoD 2002). In 2004, NatureServe submitted a revised report to DoD that provided more in-depth analyses of SAR within installations and in buffer areas surrounding installations (DoD 2004). Species identified in the report occur on or within a 2-kilometer buffer of a military site. The report is not inclusive of all Army installations. It does not capture Army Reserve properties other than the Army Reserve installations that are a part of IMCOM or many of the Army National Guard sites. 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 2004 report is a useful resource for identifying SAR that may be on or near DoD property. The 2004 report can be accessed at the following web address: https://www.denix.osd.mil/ portal/page/portal/content/environment/NR/conservation/ EndangeredSpecies/DOD_SAR_ REPORT_FINAL.PDF.

On 29 July 2005, HQDA established policy to manage SAR and their habitats in order to preclude the need for federal listing or prepare installations for imminent listings. The policy specifically focuses on Tier I installations. The Army issued SAR policy and implementing guidance on 15 September 2006. This policy focuses on the proactive conservation of SAR. The goal of the program is to support military readiness and sustainability while furthering conservation of declining species. The top four priority SAR are described below.



Adult gopher tortoise.

Dave Delaney (Delaney, et al)

GOPHER TORTOISE

The gopher tortoise is not listed in South Carolina, Georgia, Florida, and eastern Alabama, but it has been petitioned for listing. It is recorded as an Army SAR on five Army installations: Fort Stewart, GA; Fort Benning, GA; Fort Gordon, GA; Fort Rucker, AL; and Camp Blanding, FL. Significant conservation efforts are underway for the gopher tortoise including enhancing their habitat and protecting from threats. The effort aims to help prevent the need for listing the eastern gopher tortoise population. The Army is a participant with several other partners in a memorandum of understanding and candidate conservation agreement for gopher tortoise management in its non-listed range. Army installations are participating in conservation actions as impacts to training would be significant if this species is listed.

MOJAVE GROUND SQUIRREL

The Mojave ground squirrel is an imperiled species (G2). It was unsuccessfully petitioned for listing in 1995 and is currently petitioned again. The species is listed as threatened by the State of California. It is found within the recently annexed Western Expansion Area of the National Training Center (NTC) and Fort Irwin, CA. The NTC and Fort Irwin voluntarily provides the same level of protection to the Mojave ground squirrel as that given to a fully protected, federally listed species. Accordingly, the NTC and Fort Irwin surveys new locations for the presence of the species annually, and monitors known populations every 3 years. Listing of the species would impact training at NTC and Fort Irwin.



Mojave ground squirrel.

Becky Jones, California Department of Fish and Game



Greater sage grouse - strutting.

Bureau of Land Management

GREATER SAGE GROUSE

The FWS began a range-wide status review of the greater sage grouse in February 2008. The Columbian Basin population of sage grouse is a distinct population segment of the greater sage grouse. Yakima Training Center, WA, records the grouse as onsite. It has developed and implemented a sage grouse management plan and actively participates in regional sage grouse initiatives and working groups. Part of its conservation effort is augmenting the population by releasing birds captured from offsite locations. Based on these efforts, the FWS concluded in 2002 that threats related to military training were not imminent, and designated the greater sage grouse as a Category 6 candidate species, but this designation may change when the status review is complete.

DESERT CYMOPTERUS

The desert cymopterus was petitioned for listing in 2003, but after a 12-month review, FWS determined that a proposed listing rule was not warranted. This perennial herb grows in an area that was recently annexed by the NTC and Fort Irwin to expand their training range. It grows, blooms, and senesces within a 2-month period in late winter and early spring. The inflorescence resembles a purple golf ball, and the diminutive flowers are pollinated by flies attracted to the floral scent of rotten meat. The plant was first observed on Army lands in 2001, triggering a series of surveys and the creation of a protected conservation area. As a result, Army and FWS surveys have discovered additional populations in the region, both on the base and off. If listed, this species would impact training on NTC and Fort Irwin.

Desert cymopterus.

Liana Aker, ITS - supporting NTC and Fort Irwin



Critical Habitat

The FWS and NOAA-Fisheries have designated critical habitat for 52 species since the FY 2006 Army report (Rubinoff), bringing the total to 526 species. There are 14 species with critical habitat designations on 15 Army installations (Table 10). Two installations reported new critical habitat designations for 2007, Local Training Area - Aviation (Weyerhaeuser) and Presidio of Monterey. Two critical habitat designations were reported as unoccupied critical habitat, that is, critical habitat is designated on the installations, but the species does not occur there. Makua Military Reservation reports critical habitat for 31 species contiguous to the installation (Table 11).

WHAT IS CRITICAL HABITAT AND ADVERSE MODIFICATION?

Section 3 of the ESA defines critical habitat as "(i) the specific areas within the geographic area occupied by the species ... on which are found those physical or biological features (I) essential to the conservation of the species and (II) which may require special management considerations or protection; and (ii) specific areas outside the geographic area occupied by the species at the time it is listed ... upon a determination ... that such areas are essential for the conservation of the species" (emphasis added). "Conservation" means the use of all methods and procedures that are necessary to bring a listed species to the point at which listing under ESA is no longer necessary—in other words "recovery."

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

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

On 9 December 2004, FWS issued a director's memorandum stating that FWS should no longer rely on the regulatory definition of "destruction or adverse modification" in its evaluation of federal actions. Instead, FWS Regions are to use conservation of the species as their threshold. On 4 January 2006, the Army issued critical habitat guidance that addresses the changes in the process for designating critical habitat and the adverse modification threshold.

Table 10
Critical Habitat Designated on Army Installations as of End of FY 2007

COMMAND	INSTALLATION	STATUS	CATEGORY	SCIENTIFIC NAME	COMMON NAME	SPECIES ONSITE OR CONTIGUOUS
ARNG	Camp Navajo	T	Bird	Strix occidentalis lucida	Owl, Mexican spotted	Onsite
ARNG	Fort Ruger	E	Plant	Spermolepis hawaiiensis	No Common Name	Onsite
ARNG	Fort Ruger	E	Plant	Cyperus trachysanthos	Pu`uka`a	Onsite
ARNG	Kanaio Wets	E	Insect	Manduca blackburni	Moth, Blackburn's sphinx	Onsite
ARNG	Kekaha Wets	E	Plant	Panicum niihauense	Lau 'ehu	Onsite
ARNG	MTA Camp Rilea	T	Insect	Speyeria zerene hippolyta	Butterfly, Oregon silverspot	Onsite
ARNG	Santa Cruz Armory	T	Plant	Holocarpha macradenia	Tarplant, Santa Cruz	Onsite
PARO	Makua Military Reservation	E	Bird	Chasiempis sandwichensis ibidis	Elepaio, Oahu	Onsite
PARO	Schofield Barracks	E	Bird	Chasiempis sandwichensis ibidis	Elepaio, Oahu	Onsite
PARO	Pohakuloa TA	E	Bird	Loxioides bailleui	Palila (honeycreeper)	Contiguous
USAR-70th RRC	LTA-AVN TNG Area (Weyerhaeuser)	T	Bird	Strix occidentalis caurina	Owl, Northern spotted	Onsite
WEST	Fort Huachuca	E	Plant	Lilaeopsis schaffneriana ssp.recurva	Water-umbel, Huachuca	Onsite
WEST	National Training Center and Fort Irwin	T	Reptile	Gopherus agassizii	Tortoise, desert	Onsite
WEST	Presidio of Monterey	T	Plant	Chorizanthe pungens var. pungens	Spineflower, Monterey	Onsite
WEST	White Sands Missile Range	E	Plant	Hedeoma todsenii	Pennyroyal, Todsen's	Onsite
WEST	Fort Lewis	T	Bird	Strix occidentalis caurina	Owl, Northern spotted*	Contiguous

^{*} Critical habitat redesignated (13 August 2008); critical habitat no longer designated on Fort Lewis.

Table II

Critical Habitat in Lands Contiguous to Army Installations, End of FY 2007

COMMAND	INSTALLATION	STATUS	CATEGORY	SCIENTIFIC NAME	COMMON NAME	SPECIES ONSITE/CONTIGUOUS
PARO	Makua Military Reservation	E	Plant	Chamaesyce celastroides var. kaenana	Akoko	Onsite
PARO	Makua Military Reservation	E	Plant	Chamaesyce herbstii	Akoko	Onsite
PARO	Makua Military Reservation	E	Plant	Euphorbia haeleeleana	Akoko	Onsite
PARO	Makua Military Reservation	E	Plant	Cyrtandra dentata	Ha`iwale	Onsite
PARO	Makua Military Reservation	E	Plant	Cyanea grimesiana ssp. obatae	Haha	Onsite
PARO	Makua Military Reservation	E	Plant	Cyanea longiflora	Haha	Onsite
PARO	Makua Military Reservation	E	Plant	Nototrichium humile	Kulu`i	Onsite
PARO	Makua Military Reservation	E	Plant	Neraudia angulata	Ma'aloa	Onsite
PARO	Makua Military Reservation	E	Plant	Flueggea neowawraea	Mehamehame	Onsite
PARO	Makua Military Reservation	E	Plant	Dubautia herbstobatae	Na`ena`e	Onsite
PARO	Makua Military Reservation	E	Plant	Lipochaeta tenuifolia	Nehe	Onsite
PARO	Makua Military Reservation	E	Plant	Alsinidendron obovatum	No Common Name	Onsite
PARO	Makua Military Reservation	E	Plant	Bonamia menziesii	No Common Name	Onsite
PARO	Makua Military Reservation	E	Plant	Diellia falcata	No Common Name	Onsite
PARO	Makua Military Reservation	E	Plant	Gouania vitifolia	No Common Name	Onsite
PARO	Makua Military Reservation	E	Plant	Hedyotis degeneri	No Common Name	Onsite
PARO	Makua Military Reservation	E	Plant	Hedyotis parvula	No Common Name	Onsite
PARO	Makua Military Reservation	E	Plant	Hesperomannia arbuscula	No Common Name	Onsite
` PARO	Makua Military Reservation	E	Plant	Phyllostegia kaalaensis	No Common Name	Onsite
PARO	Makua Military Reservation	E	Plant	Sanicula mariversa	No Common Name	Onsite
PARO	Makua Military Reservation	E	Plant	Schiedea hookeri	No Common Name	Onsite
PARO	Makua Military Reservation	E	Plant	Schiedea kaalae	No Common Name	Onsite
PARO	Makua Military Reservation	E	Plant	Schiedea nuttallii	No Common Name	Onsite
PARO	Makua Military Reservation	E	Plant	Spermolepis hawaiiensis	No Common Name	Onsite
PARO	Makua Military Reservation	E	Plant	Delissea subcordata	0ha	Onsite
PARO	Makua Military Reservation	E	Plant	Solanum sandwicense	Aiakeakua, popolo	Contiguous
PARO	Makua Military Reservation	E	Plant	Melicope pallida	Alani	Contiguous
PARO	Makua Military Reservation	T	Plant	Isodendrion longifolium	Aupaka	Contiguous
PARO	Makua Military Reservation	E	Plant	Colubrina oppositifolia	Kauila	Contiguous
PARO	Makua Military Reservation	E	Plant	Mariscus pennatiformis	No Common Name	Contiguous
PARO	Makua Military Reservation	E	Plant	Isodendrion pyrifolium	Noho, Kula wahine	Contiguous
USAR-70th RRC	LTA-AVN TNG Area (Weyerhaeuser)	Ţ	Bird	Brachyramphus marmoratus marmoratus	Murrelet, Marbled	Onsite

INSTALLATIONS EXCLUDED FROM CRITICAL HABITAT DESIGNATION BASED ON ESA 4(A)(3)(B) AND/OR 4(B)(2)

In 2003, the National Defense Authorization Act (NDAA) for FY 2004 (Public Law 108-136) enacted a number of environmental provisions that impact the military. Specifically, Section 318 precludes the FWS and NOAA-Fisheries from designating critical habitat on any areas owned, controlled, or designated for use by DoD, if such areas are subject to an INRMP that provides a benefit to the species subject to critical habitat designation [ESA Section 4(a)(3)(B)]. The FWS has produced a policy that establishes criteria for determining whether an INRMP provides benefits to the species. If the FWS/NOAA-Fisheries do not determine that an INRMP provides a benefit to the species, then the applicable regulatory agency may designate critical habitat on the respective installation.

The act also amends the ESA by requiring the FWS or NOAA-Fisheries to consider the impacts of critical habitat designation on national security. Therefore, the FWS or NOAA-Fisheries may preclude designation of critical habitat on a military installation if they conclude, regardless of the status of an INRMP, that such a designation would have a significant impact on national security [ESA 4(b)(2)]. However, neither the FWS nor NOAA-Fisheries may exclude an area as critical habitat solely based on Section 4(b)(2), if doing so would result in the extinction of the species concerned. However, the ESA does not prevent the FWS from excluding lands as critical habitat, even if doing so would prevent the conservation of the species. Lastly, NDAA Section 318 does not affect the prohibition on the taking of listed species, the requirements to consult, and the requirement not to jeopardize the species.

To make the "benefit" determination of an INRMP, the FWS uses the following criteria: A current INRMP must be complete and provide a conservation benefit to the species; the plan must provide assurances that the conservation management strategies will be implemented; and the plan must provide assurances that the conservation management strategies will be effective, by providing for periodic monitoring and revisions as necessary.

Critical habitat for the northern spotted owl was revised, and now Fort Lewis, WA, is excluded. The FWS excluded Fort Lewis because the 2007 Draft Recovery Plan for the northern spotted owl no longer considers managing forest habitat on Fort Lewis as a necessary component of recovery for the northern spotted owl, since none are known to occur on the installation. The FWS/NOAA-Fisheries chose not to designate critical habitat at Corvallis/Camp Adair, OR, for Kincaid's lupine and at Fort Lewis and Pier 23, WA, for the southern resident killer whale. The exclusion for Kincaid's lupine was based on ESA Section 4(a)(3)(B) (INRMP) and for the killer whale, ESA Section 4(b)(2) (national security).

Installations that provide essential information to the FWS/NOAA-Fisheries that aids in making critical habitat decisions are more likely to achieve results favorable to the military mission—i.e., avoiding the need to designate critical habitat on the installations. Such proactive measures have consistently proven to be beneficial to Army missions.

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 attributed to a specific species. Non-reportable expenditures are money spent on multi-species projects where no specific amount of money is attributable to individual listed species. Table 12 provides a summary of Army reportable expenses for 5 years (FY 2003 – FY 2007).

In reportable expenditures, a total of \$35.83 million was spent for T&E species in FY 2007, which includes funds spent on T&E research and development projects. The total expenditures for FY 2007 were \$45.09 million which represents \$9.264 million in non-reportable expenses. Forty-five million dollars is the most the Army has ever spent on T&E species in an FY. Expenditures by species categories are provided in Table 13.

A total of approximately \$8.12 million was spent on species proposed for federal listing, candidate species, and other species at risk in FY 2007. Implementing proactive conservation measures for these species and their habitats can help preclude the need for federal listing, which would enable installations to continue their military mission without ESA compliance requirements. For those species whose listing may be imminent, these proactive efforts can assist in preparing an installation so mission impacts are minimal and/or manageable.

Table 12
Reportable Expenditures FY 2003 - FY 2007

YEAR (FY)	2007	2006	2005	2004	2003
Reportable Expenditures (\$K)	\$35,829.1	\$29,917.2	\$40,997.6	\$21,271.4	\$21,274.8

Consistent Reporting

The Army is frequently asked for information on T&E species. However, the intricacy of the data can result in multiple possible answers to the question, "How many T&E species are on Army lands?" For consistency, unless other data are specifically requested, the number provided will be the number of different T&E species, recorded onsite, not contiguous to Army installations. A T&E species may be recorded on more than one installation, but it is counted only once. Species that have more than one status (for example, threatened in one part of its range and endangered in another) are recorded as one species. Table 14 shows these numbers for FY 2000 through FY 2007. In the table, the number of installations reflects the number of distinct installations that have recorded one or more T&E species onsite. The 2007 data treat subspecies as individual species.

FY 2007 EXP	ENDITURES (\$K)	FY 2006 EXPENDITURES (\$K)			
Birds	\$12,804.8	Birds	\$11,322.5		
Plants	\$11,700.4	Plants	\$9,691.2		
Reptiles	\$6,135.0	Reptiles	\$3,655.7		
Mammals	\$2,805.2	Mammals	\$2,951.0		
Snails	\$698.1	Insects	\$665.0		
Insects	\$582.4	Amphibians	\$409.1		
Fish	\$485.3	Fish	\$398.0		
Amphibians	\$302.7	Snails	\$383.0		
Crustaceans	\$165.2	Crustaceans	\$291.1		
Arachnids	\$150.0	Arachnids	\$215.0		

FY 2007 and FY 2006 Comparison of Reportable Expenditures by Category

FISCAL YEAR	NUMBER OF SPECIES	NUMBER OF INSTALLATIONS
2000	170	94
2001	172	99
2002	170	92
2003	175	95
2004	177	100
2005	188	102
2006	174	99
2007	188	99



ONSERVATION AND MANAGEMENT ON ARMY INSTALLATIONS

In FY 2007 and FY 2006, the Army spent an average of \$42.8 million annually on T&E related management and conservation projects. Since the Army's SAR policy and guidance was issued, the emphasis on Army SAR has increased. In addition, Army management of species that are not listed or categorized as SAR demonstrates its commitment to conserving resources held in public trust. Below are some examples of the numerous projects being implemented by the Army. Many of these efforts also benefit the numerous plant and animal species that share habitat with TEPC species and SAR.

Listed Species

RED-COCKADED WOODPECKER

Red-cockaded woodpeckers are recorded onsite at nine Army installations in the United States. Through the dedication of Army wildlife biologists, the over-

all population growth of red-cockaded woodpeckers on Army lands increased to an average of 5 to 10 percent per year. One of the most notable success stories is the Fort Bragg, NC, red-cockaded woodpecker population, which has exceeded the FWS recovery plan population goal for the area 5 years ahead of schedule. This was achieved, in part, by imposing training and construction restrictions on the woodpeckers' habitat and introducing new breeding groups.

Natural resources conservation efforts at multiple Army installations have been successful at conserving the natural longleaf forest habitats of red-cockaded woodpeckers, which have declined from a historical high of 60-90 million acres to only 3 million. Through the use of compatible use buffers, Army installations have ensured that the red-cockaded woodpecker has protected, natural habitat away from military training operations and susceptible public lands. The Army hopes that its efforts to repopulate and protect this endangered bird will result in delisting it by 2075.



Figure 5. Dughi Spring before renovation.

Michael Moore, Camp Roberts





Figure 6. Dughi Spring after renovation.

Michael Moore, Camp Roberts

CALIFORNIA RED-LEGGED FROG

In fall 2007 the California Army National Guard (CANG) improved habitat for the California red-legged frog in an area of Camp San Luis Obispo known as Dughi Spring. This location was a former breeding site for California red-legged frogs, but no longer provided breeding habitat because sediment and vegetation had filled in the pool, effectively eliminating the open water needed by the frog.

Approximately 3 cubic yards of sediment were removed (using shovels and wheelbarrows) and moved to an appropriate upland site. Heavy equipment was not used, as it would have degraded the site, which is also a cultural resources site eligible for listing in the National Register of Historic Places.

As illustrated in Figures 5 and 6, the project created more open water and increased the water depth, thereby providing improved year-round habitat for California red-legged frogs.

All work was performed under a biological opinion issued by the FWS and with the concurrence of the State Historic Preservation Officer. No California red-legged frogs were observed during pre-construction surveys or construction itself.

On 13 August 2008, staff from Camp San Luis Obispo met with representatives from the FWS and provided them with a tour of the unique natural resources within the installation. One of the locations visited was Dughi Spring.

During the discussion of the project and its expected benefits to the California red-legged frog, a representative from the FWS observed several California red-legged frog tadpoles and one adult California red-legged frog in the water's edge of Dughi Spring.



California red-legged frog.

Army Environmental Command

Chris Diel, FWS

CALIFORNIA CONDOR

Since 2007, the CANG has participated in multi-agency meetings regarding condor recovery, and especially the problem of lead poisoning. Studies provide overwhelming evidence that lead poisoning of condors comes from ammunition fragments in carcasses left behind in the condor range by hunters. Lead poisoning from ingesting lead fragments in carcasses is the leading cause of death for reintroduced condors in California and Arizona.

The CANG coordinates with several partners, including Fort Hunter Liggett, to strategize on lead awareness outreach. The CANG took a leadership role in banning lead use in its hunting program at Camp Roberts on I July 2007. CANG has now banned the use of lead ammunition in all its hunting programs in 2008.

Recently the CANG invited the public to a free "Non-Lead Ammunition Shooting Event" (Figure 7). This event provided hunters and shooting enthusiasts with an opportunity to evaluate the performance of non-lead ammunition using their own rifles. A side-by-side comparison of the performance and accuracy of traditional lead bullets with non-lead bullets made from copper and other materials was demonstrated.





Figure 8. Comparison of copper and lead bullet fragments.

Chris Diel, FWS

In comparison with lead and copper-jacketed bullets, all-copper bullets do not fragment and are far less toxic when ingested. Scavengers like the condor are less likely to ingest one large mushroomed bullet than many small bullet fragments. Hunters have a long tradition of wildlife conservation, and the best way to help conserve the condor is to hunt with non-lead ammunition.

Figure 8 shows the results of firing both lead and copper bullets into a 55 gallon drum of water and straining the water through a coffee filter to collect the bullet fragments. The copper bullet merely mushroomed, while the lead bullet fragmented into many small pieces

The CANG has also funded a project to attach four Global Positioning System transceivers to condors. This project is being conducted by the Ventana Wildlife Society.

Delisted Species

BALD EAGLE

The FWS announced the recovery of the bald eagle in 2007. Bald eagles outside the Sonoran Desert of Arizona are now protected by the Bald and Golden Eagle Protection Act and the Migratory Bird Treaty Act. The Army issued policy guidance for eagles in a memorandum dated 19 August 2008 (Memorandum 2008). In FY 2007, 43 Army installations reported bald eagles onsite. The Army was an active partner in achieving recovery of the bald eagle. Spending more than \$7 million from 2002 to 2006, the Army has funded multiple bald eagle conservation initiatives, such as satellite tagging at Aberdeen Proving Ground, MD, and creation of a range safety zone to keep training away from eagle nesting areas at Fort Hunter Liggett, CA.

Whether conducting surveys of bald eagle populations, maintaining habitat, or enhancing food sources within habitats, Army installations have played a major role in the population boom of this magnificent American icon.



Bald eagles at Fort McCoy, WS.

Fort McCoy

GRAY WOLF6

The gray wolf has called Camp Ripley, MN, home for more than 15 years. It has been protected by the ESA since the 1970s.

In the past, human-caused mortality resulted in the near extinction of gray wolves in the lower 48 states. During the mid to late 1970s, Minnesota estimated the wolf population at about 1,000 to 1,200. A 2003–2004 survey showed that the population has grown to approximately 3,000.

In 2007, the FWS removed ESA protection for the gray wolf in the states of Minnesota, Wisconsin, and Michigan; however, the ESA listing was reinstated by court order in 2008.

Besides serving as a National Guard training facility, Camp Ripley is also a Minnesota Statutory Game Refuge. Camp Ripley serves as a key National Guard training facility, and it provides good quality habitat for wolves on the southern edge of the Minnesota gray wolf range. Research has demonstrated that training activities on the camp do not negatively affect wolves, and the presence of wolves on Camp Ripley has not resulted in any loss of training capabilities.

Camp Ripley participates with the Minnesota Department of Natural Resources to monitor wolf populations on the camp as recommended in the Minnesota Wolf Management Plan.



Wolf No. 23 at Camp Ripley.

Brian Dirks and Nancy Dietz, MN Department of Natural Resources, Camp Ripley

Army Species at Risk

REGAL FRITILLARY BUTTERFLY

At Fort Indiantown Gap, PA, the regal fritillary butterfly has been kept off the list of federal endangered species because of the hard work of the installation's natural resources staff. By relocating mechanized training areas around this sensitive butterfly's habitat, Fort Indiantown Gap increased the population of the butterfly to roughly 1,000. The Army also supported creation of satellite populations at Gettysburg National Military Park to expand the population of the species. Fort Indiantown Gap is now home to the largest documented population of regal fritillary butterflies in the region.



Regal fritillary butterfly.

Army Environmental Command

RED-TAILED PRAIRIE LEAFHOPPER

The red-tailed prairie leafhopper (Aflexia rubranura) is a small and inconspicuous insect. It is noteworthy in that it is classified as a federal species of concern, a Wisconsin endangered species, and an Army SAR. This leafhopper was first documented on Fort McCoy, WS, in the mid-1990s.

The host plant for this insect is a grass called prairie dropseed (*Sporobolus heterolepis*). Dropseed is found in scattered patches within oak savannas, which occur on level to gently rolling terrain, and on remnant prairies found along the top of south or southwest facing slopes. Due to the location of these remnant prairies on steep slopes, they are often referred to as goat prairies. Unlike on areas of level terrain, few military training exercises occur on these goat prairies, making them ideal locations to improve habitat for a rare species. A long-term goal for managing the red-tailed prairie leafhopper is to increase its distribution on the land-scape, thus reducing the need for ESA listing.

The absence of prescribed burns, wildfires, or direct management allowed woody vegetation to encroach on many of these goat prairies, reducing them to a few square meters by the late 1990s. Managing these remnant prairies involves removing selected trees, shrubs, and briars from within and around their perimeter to allow increased sunlight to reach ground level. Removing trees and shrubs improves the habitat for sun-loving prairie plants, including prairie dropseed. To date, management activities have occurred on 21 goat prairies, with work completed on 9 in 2007 and 2008.



Assessing goat prairie habitat.

Tim Wilder, Fort McCoy



Removing small oaks from goat prairie.

Tim Wilder, Fort McCoy



Two red-tailed prairie leafhoppers.

Tim Wilder, Fort McCoy

A 2008 survey documented red-tailed prairie leafhoppers at 21 locations on the installation. Seven of these sites are goat prairies. This leafhopper is a relatively immobile insect that does not readily colonize new habitats unless they are close to other occupied sites. Since many goat prairies are isolated habitats, several questions are yet unanswered, such as whether the leafhoppers will disperse to these sites and, if so, whether their numbers will be sufficient to colonize. One approach may be to collect specimens from sites with high populations and introduce them to these isolated goat prairies that now have suitable habitat.

Ultimately, with continued management, the red-tailed prairie leafhopper will co-exist with soldiers and their myriad advanced weapons systems far into the future.



Sweep net survey for redtailed prairie leafhoppers.

Tim Wilder, Fort McCoy



Goat prairie after management; prairie dropseed in foreground.

Tim Wilder, Fort McCoy



Isolated nature of many goat prairies.

James Kerkman, Fort McCoy

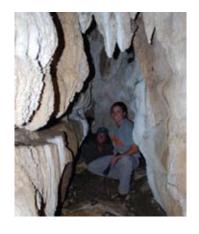
Other Species

The green salamander (Aneides aneides) is found in small, isolated populations throughout the Appalachian Mountains region, including portions of Alabama. Throughout their range, green salamanders are threatened by development and timber harvest, resulting in habitat loss that is especially detrimental to populations isolated from one another by roads, development, or man-made lakes. Over-collecting, acid rain, climate change, and unknown pathogens also are thought to play a role in their distribution-wide decline.

Green salamanders inhabit rocky outcrops, cliffs, and caves with deep crevices that remain moist, but not permanently wet. Also, they utilize the forest canopy for foraging and cover. The protection of the surrounding forest is important to ensure the quality of environmental factors such as temperature and humidity that are important to the green salamander life history.

In cooperation with the Alabama Department of Conservation and Natural Resources, Redstone Arsenal is committed to protecting plant and animal species considered important or at risk within the state, as well as their associated habitats. Green salamander specimens were located on the installation in a 1995 survey by the Alabama Natural Heritage Program of The Nature Conservancy. However, after years of having little or no idea of the population extent and with BRAC-related development occurring on or near suspected green salamander habitat, the installation's cultural and natural resources staff chose to survey all potential habitats for green salamander populations. Geographic information system technology showing geology and soil layers, and infrared imaging of the installation, helped to locate limestone and sandstone rock outcrops, caves, and other rocky features indicating possible habitat. These locations are being systematically surveyed, especially on rainy days near dawn and dusk, for green salamanders. In addition, because green salamanders are known to utilize and migrate in the forest canopy, night visits to those selected locations are expected to yield sightings. To date, six green salamanders have been located and identified (three juveniles and three adults) in a cave and a rocky outcrop. One of those salamanders, an adult female, was captured, processed, and released.

Redstone Arsenal is dedicated to protecting natural resources, and data from this survey will enable the installation to continue a record of environmental consideration and protection. Development planning can include avoidance of known green salamander habitat or the inclusion of buffers around rock outcrops. Timber harvest can be avoided, or planned to allow the minimum of a 100-foot buffer around the salamander locations. Hopefully these protection efforts will prevent future decline of the species in this region.



Survey for green salamander.

Ben Hoksbergen, Redstone Arsenal



Green salamander.

Clayton Vaughan, Redstone Arsenal



IGRATORY BIRDS

On 28 February 2007, the FWS published the final rule (72 Federal Register 8931) on the take of migratory birds by the armed forces. This rule is a requirement of Section 318 of the NDAA of 2003, which exempted DoD from the provisions governing the incidental take of migratory birds during military readiness activities. In short, the rule requires DoD to confer and cooperate with the FWS to develop appropriate conservation measures to minimize or mitigate actions that have or may have a significant adverse effect on a population of migratory bird species. DoD is developing policy for the military services based on the final rule. This policy is expected to be complete in FY 2009. Army policy is currently provided in Army Regulation 200-1 and two memoranda (Memoranda 2001 and 2002).

Though it is not expected that any Army action will reach the level of having a significant adverse effect on a population, the species most likely to experience negative impacts at a population level would be those identified as species of concern. Even so, Army installations implement programs for the management and conservation of birds that minimize and/or mitigate impacts associated with military readiness activities.

Executive Order 13186, "Responsibilities of Federal Agencies to Protect Migratory Birds," requires each federal agency to develop and implement a memorandum of understanding (MOU) with the FWS to promote the conservation of migratory bird populations. DoD signed the MOU on 31 July 2006. The MOU requires federal agencies to minimize the unintentional take of migratory birds, with emphasis on species of concern. The DoD MOU focus is on actions that are not classified as military readiness activities. It is available on the Defense Environmental Network and Information eXchange (DENIX, https://www.denix.osd.mil).

Although the focus of the executive order is on migratory bird species of concern, no single source specifically identifies all the different species of concern. There are currently seven different sources, listed below, that identify these species. The most basic geographical unit for designating migratory birds as species of concern is the Bird Conservation Region (BCR). The species of concern identified within these BCRs are the ones that DoD should be most concerned about. The resources listed in the right column specifically identify which species are considered migratory bird species of concern on a BCR or national level.

 Birds of Conservation Concern (BCC) published by the FWS:

http://www.fws.gov/migratorybirds/reports/BCC02/BCC2002.pdf

 North American Waterbird Conservation Plan (NAWCP):

http://www.pwrc.usgs.gov/nacwcp/nawcp.html

 United States Shorebird Conservation Plan (USSCP):

http://www.fws.gov/shorebirdplan/

Partners in Flight Bird Conservation Plans (PIFBCP):

http://www.partnersinflight.org/

 North American Waterfowl Management Plan (NAWMP):

http://www.fws.gov/birdhabitat/ NAWMP/Planstrategy.shtm

 Listed threatened and endangered bird species:

http://ecos.fws.gov/tess_public/SpeciesReport. do?groups=B&listingType=L

 Game birds below desired population sizes (GBBDPS):

http://www.fws.gov/migratorybirds/reports/status04/GBBDC%20LIST.pdf

USAEC helped DoD Partners in Flight develop a database that identifies the bird species of concern identified in these resources, as well as the DoD installations found within each BCR. The data and associated website enable identification of the BCR by installation and enable listing all the migratory bird species of concern within that BCR. The site's address is: http://dodpif.org/downloads/DOD_Map_2006.pdf.

BURROWING OWL7

In partnership with the FWS and with full support from the commander of Umatilla Chemical Depot (UMCD), LTC Bob Stein, a new burrowing owl habitat development project was begun at UMCD when planning for migratory bird protection started in 2007.

"Today's Army mission includes environmental protection in many forms," said Stein. "We protect the depot environment by not only keeping chemical agents safely contained, but by working with federal and state agencies to protect wildlife."

FWS biologists, UMCD environmental staff, and volunteers partnered to construct new owl burrows from modern materials that mimic features that the owls desire, including the prerequisite darkness and dirt floors. The artificial burrows have several advantages, including easy access points for banding or counting owls, plus predator-proof construction. Future plans include addition of a low-light video camera.

"We approached the FWS with the idea of assembling a team to build artificial burrows—we call them owl condos," said Don Gillis, UMCD natural resources manager. "We were partly inspired by a similar project nearby at the U.S. Department of Energy's Hanford site."

"The owls seemed to like it right away," said Gillis. "Within 24 hours one owl moved in—we nicknamed her Buffy—and within a few weeks we saw activity in 14 of the 18 condos."

The Sikes Act requires creation and implementation of a depot INRMP. It also requires conforming to the Migratory Bird Treaty Act. UMCD's INRMP covers protection of various species, including burrowing owls.

"We appreciate all the hard work by these dedicated team members," Stein said. "This is a tremendous partnership between the Army and our neighbors. We're proud to be a part of this environmental protection effort." And there is one payoff for the team members for their hard work: each owl condo will be named after a volunteer.



The first burrowing owl, nicknamed Buffy by depot environmental staff, moved into an artificial burrow within a day. Buffy stands next to a flexpipe entrance to an artificial burrow or "owl condo" at the Umatilla Chemical Depot.

Umatilla Chemical Depot

EFINITIONS

Biological Opinion—The document that states the opinion of the FWS/ NOAA-Fisheries as to whether 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 (of Species)—Species are divided into the following categories in this report:

AMPHIBIANS MAMMALS

BIRDS OTHER INVERTEBRATES

CRUSTACEANS PLANTS

FISH REPTILES

INSECTS SNAILS

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 historical geographic and ecological distributions of a species.

Consultation—The process in which each federal agency consults with FWS/ NOAA-Fisheries to ensure that any action it authorizes, funds, or carries 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. Consultations can be conducted as follows:

Formal Consultation—The process between FWS/NOAA-Fisheries and a federal agency that commences when the federal agency determines that its action may adversely affect a listed species or critical habitat. The agency then submits a written request for consultation with FWS/NOAA-Fisheries. The process concludes with the issuance of a biological opinion by the FWS/NOAA-Fisheries, stating whether the action is likely to jeopardize the species or adversely modify 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 FWS/NOAA-Fisheries providing written concurrence with the federal agency's determination that its action is not likely to adversely affect listed species or critical habitat.

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

Distinct Species—A species may occur on several installations, but it is counted only 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 counted only once.

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 species expenditures are provided by the FWS. Guidance is based on the notion of "reasonably identifiable federal expenditures made primarily for the conservation of endangered or threatened species pursuant to this [Endangered Species Act]" (16 U.S.C. 1544).

Federal Status—The following designations identify the federal protection status of species:

E-Federally endangered

T—Federally threatened

T(SA)—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#—An alphanumeric designation representing the global conservation status rank of a species, assigned by NatureServe scientists:

GI—Critically imperiled globally because of extreme rarity or because of one or more factors making it especially vulnerable to extinction. Typically five or fewer occurrences or very few remaining individuals(<1,000).

G2—Imperiled globally because of rarity or because of one or more factors 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 Command—IMCOM installations in the United States are divided into four regions: Northeast, Southeast, West, and Pacific. IMCOM regions are responsible for supporting installation base operations.

Jeopardy Biological Opinion—A biological opinion issued by the FWS or NOAA-Fisheries 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.

Listing Factors (ESA 4(a)(1))—The factors used to determine if any species is an endangered or threatened species are:

- the present or threatened destruction, modification, or curtailment of its habitat or range;
- overutilization for commercial, recreational, scientific, or educational purposes;
- disease or predation;
- · the inadequacy of existing regulatory mechanisms or;
- other natural or manmade factors affecting its continued existence.

Non-jeopardy Biological Opinion—A biological opinion issued by the FWS or NOAA-Fisheries 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.

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.

Similarity of Appearance—A species that closely resembles a threatened or endangered species may be given the federal status of the species it resembles. Similarity of appearance species are denoted by T(SA) or E(SA). However, no distinction is made between SA and T&E for reporting purposes.

Species at Risk—Species that are candidates under the ESA and/or are considered to be critically imperiled (status of GI or TI) or imperiled (status of G2 or T2) and have not been federally listed (DoD 2004).

Army Species at Risk—Species that would have a significant impact on military missions if federally listed as T or E. Army SAR are identified in the Army's policy guidance on SAR (Memorandum 2006).

Species Location—The location of a recorded species may be one of two possibilities:

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 because the installation activities may affect the species, so the contiguous lands would be included in the action area for assessing potential effects.

Onsite—Species that have been documented on the installation.

T#—An alphanumeric designation for the status of infraspecific taxa (subspecies or varieties) following a species' global rank:

TI—Subspecies or variety critically imperiled globally because of extreme rarity or because of one or more factors making it especially vulnerable to extinction.

T2—Subspecies or variety imperiled globally because of rarity or because of one or more factors making it very vulnerable to extinction or elimination.

T&E Species—Species that have been federally designated as threatened or endangered. These two statuses include similarity of appearance species.

TEPC Species—Species on Army lands that have been federally designated as threatened, endangered, proposed, or candidate.

Tier I Installations—Major training installations with strategic training value to the Army, and forward deployed locations (as directed) (DA 2004).

A CRONYMS

AAP Army Ammunition Plant

AASF Army Aviation Support Facility

AD Army Depot

AEDB-EQ Army Environmental Database—Environmental Quality

AFRC Armed Forces Reserve Center

AMC U.S. Army Materiel Command

AMSA Army Medical Surveillance Activity

ARNG Army National Guard

ASF Aviation Support Facility

AVN aviation

BCC Birds of Conservation Concern

BCR Bird Conservation Region

BRAC Base Realignment and Closure

CANG California Army National Guard

CFR Code of Federal Regulations

CSTC Combat Support Training Center

CTC Combat Training Center

DoD Department of Defense

ESA Endangered Species Act

FR Federal Register

FWS U.S. Fish and Wildlife Service

FY fiscal year

GI Global rank of critically imperiled

Global rank of imperiled

GBBDPS game birds below desired population sizes

HQ headquarters

HQDA Headquarters, Department of Army

IMCOM Installation Management Command

INRMP integrated natural resources management plan

LTA Local Training Area

MOU memorandum of understanding

MTA Maneuver Training Area

MTC Maneuver Training Center

MTC-H Maneuver Training Center—Heavy

NAWMP North American Waterfowl Management Plan

NAWCP North American Waterbird Conservation Plan

NDAA National Defense Authorization Act

NEP non-essential experimental population

NERO Installation Management Command, Northeast Region

NTC National Training Center

NOAA-FISHERIES National Oceanic and Atmospheric Administration -

National Marine Fisheries Service

OMS Organizational Maintenance Shop

PARO Installation Management Command, Pacific Region

PIFBCP Partners in Flight Bird Conservation Plans

RRC Regional Readiness Command

SAR species at risk

SERO Installation Management Command, Southeast Region

SMR State Military Reserve

STARC State Area Command

TI Subspecies or varieties with global rank of critically imperiled

T2 Subspecies or varieties with global rank of imperiled

T&E threatened and endangered

T(SA) threatened due to similarity of appearance

TA Training Area

TEPC threatened, endangered, proposed, and candidate

TS Training Site

UMCD Umatilla Chemical Depot

USAEC U.S. Army Environmental Command

US Army Reserve

USARC U.S. Army Reserve Command

U.S.C. United States Code

USSCP United States Shorebird Conservation Plan

UTES Unit Training Equipment Site

WEST Installation Management Command, West Region

WETS Weekend Training Site

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A

APPENDIX A: INSTALLATIONS WITH T&E SPECIES RECORDED AS ONSITE OR CONTIGUOUS

COMMAND	INSTALLATION	STATE	FWS REGION	CATEGORY	COMMON NAME	SCIENTIFIC NAME	ONSITE/ CONTIGUOUS	STATUS	CRITICAL Habitat
AMC	Anniston AD	AL	4	Plant	Grass, Tennessee yellow-eyed	Xyris tennesseensis	Onsite	E	N
	Blue Grass AD	KY	4	Mammal	Bat, Indiana	Myotis sodalis	Onsite	E	N
				Plant	Clover, running buffalo	Trifolium stoloniferum	Onsite	E	N
Desere	Deseret Chemical Depot	UT	6	Bird	Eagle, bald*	Haliaeetus leucocephalus	Contiguous	Т	N
	Hawthorne AD	NV	ı	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	Т	N
				Fish	Trout, Lahontan cutthroat	Oncorhynchus clarki henshawi	Contiguous	E	N
	Holston AAP	TN	4	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	T	N
				Mammal	Bat, gray	Myotis grisescens	Onsite	E	N
	Iowa AAP	IA	3	Mammal	Bat, Indiana	Myotis sodalis	Onsite	E	N
	Lone Star AAP	TX	2	Reptile	Alligator, American	Alligator mississippiensis	Onsite	T(SA)	N
	McAlester AAP	OK	2	Insect	Beetle, American burying	Nicrophorus americanus	Onsite	E	N
	Newport Chemical Depot	IN	3	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	Т	N
				Mammal	Bat, Indiana	Myotis sodalis	Onsite	E	N
	Riverbank AAP	CA	ı	Insect	Beetle, valley elderberry longhorn	Desmocerus californicus dimorphus	Contiguous	Т	N
	Sierra AD	CA	ı	Insect	Skipper, Carson wandering	Pseudocopaeodes eunus obscurus	Contiguous	E	N
ARNG	(Clinton) Truman Reservoir T.S.	MO	3	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	ī	N
	Auburn TS/OMS 2	ME	5	Plant	Pogonia, small whorled	Isotria medeoloides	Onsite	ī	N
	Camp Ashland	NE	6	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	ī	N
	Camp Atterbury	IN	3	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	ī	N
				Mammal	Bat. Indiana	Myotis sodalis	Onsite	E	N
	Camp Bowie (State)	TX	2	Bird	Vireo, black-capped	Vireo atricapilla	Onsite	E	N N
	Camp Crowder	MO	3	Bird	Eagle, bald*	Haliaeetus leucocephalus	Contiguous	T	N N
	camp crowder	110		Fish	Cavefish, Ozark	Amblyopsis rosae	Contiguous	Ť	N N
	Camp Grafton	ND	6	Bird	Plover, piping	Charadrius melodus	Contiguous	T T	N N
	Camp Gruber	OK	2	Insect	Beetle, American burying (=giant carrion)	Nicrophorus americanus	Onsite	Ė	N N
	Camp Joseph T. Robinson	AR	4	Bird	Eagle, bald*	Haliaeetus leucocephalus	Contiguous	ī	N
	Camp Mabry	TX	2	Bird	Warbler, golden-cheeked	Dendroica chrysoparia	Onsite	Ė	N
	Camp Maxey	TX	2	Insect	Beetle, American burying (=giant carrion)	Nicrophorus americanus	Onsite	E	N
	Camp Murray	WA	1	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	Ī	N
	Camp Navajo	AZ	2	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	i i	N
	Camp Navajo	AL	2	Bird		Strix occidentalis lucida	Onsite	' T	Y—0
	Comm. Down.	OH	3	Bird	Owl, Mexican spotted			' T	N N
	Camp Perry		3		Eagle, bald*	Haliaeetus leucocephalus	Onsite	' T	N N
	Camp Ripley	MN		Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite		
	C C 14 CCMC A	MN	3	Mammal	Wolf, gray (MN only)***	Canis lupus	Onsite	T T	N
	Camp Smith CSMS A	NY	5	Bird	Eagle, bald*	Haliaeetus leucocephalus	Contiguous		N
	C . D /TC	TN		Fish	Sturgeon, shortnose	Acipenser brevirostrum	Contiguous	E	N
	Catoosa Range/TS	TN	4	Plant	Skullcap, large-flowered	Scutellaria montana	Onsite		N
	Clark County Complex	NV	l I	Reptile	Tortoise, desert	Gopherus agassizii	Onsite	Ī	N
	Corvallis/Camp Adair	OR	l	Bird	Eagle, bald*	Haliaeetus leucocephalus	Contiguous	I I	N
				Bird	Owl, northern spotted	Strix occidentalis caurina	Contiguous	T T	N
				Insect	Butterfly, Fender's blue	Icaricia icarioides fenderi	Contiguous	T -	N
				Plant	Checker-mallow, Nelson's	Sidalcea nelsoniana	Onsite	T -	N
				Plant	Lupine, Kincaid's	Lupinus sulphureus kincaidii	Onsite	E	N
	CTC Camp San Luis Obispo	CA		Amphibian	Frog, California red-legged	Rana aurora draytonii	Onsite	Ī	N
				Bird	Condor, California	Gymnogyps californianus	Onsite	E	N
				Bird	Vireo, least Bell's	Vireo bellii pusillus	Onsite	E	N
				Fish	Steelhead (Southern California)	Oncorhynchus mykiss	Onsite	E	N
				Plant	Thistle, Chorro Creek bog	Cirsium fontinale var.obispoense	Onsite	E	N
				Snail	Snail, Morro shoulderband	Helminthoglypta walkeriana	Contiguous	E	N
	Douglas Armory	WY	6	Mammal	Mouse, Preble's meadow jumping	Zapus hudsonius preblei	Contiguous	E	N

COMMAND	INSTALLATION	STATE	FWS REGION	CATEGORY	COMMON NAME	SCIENTIFIC NAME	ONSITE/ CONTIGUOUS	STATUS	CRITICAL Habitat
ARNG	Florence Military Reservation	AZ	2	Reptile	Tortoise, desert	Gopherus agassizii	Onsite	T(SA)	N
	Ft Chaffee Maneuver Trng Ctr	AR	4	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	T	N
				Insect	Beetle, American burying	Nicrophorus americanus	Onsite	E	N
	Fort McClellan ARNG	AL	4	Mammal	Bat, gray	Myotis grisescens	Onsite	E	N
				Plant	Button, Mohr's Barbara	Marshallia mohrii	Onsite	E	N
				Plant	Grass, Tennessee yellow-eyed	Xyris tennesseensis	Onsite	E	N
	Fort Pickett ARNG MTC	VA	5	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	T	N
				Fish	Logperch, Roanoke	Percina rex	Onsite	E	N
				Plant	Sumac, Michaux's	Rhus michauxii	Onsite	E	N
	Fort Ruger	НІ	I	Bird	Coot, Hawaiian (=`alae-ke`oke`o)	Fulica americana alai	Onsite	E	N
				Bird	Duck, Hawaiian (=koloa)	Anas wyvilliana	Onsite	E	N
				Bird	Moorhen, Hawaiian Common	Gallinula chloropus sandvicensis	Onsite	E	N
				Plant	No common name	Spermolepis hawaiiensis	Onsite	E	Y—0
				Plant	Pu`uka`a	Cyperus trachysanthos	Onsite	E	Y—0
				Plant	Schiedea, diamond head	Schiedea adamantis	Onsite	E	N
	Hilo (Keaukaha Military Reserv)	Н	1	Bird	Hawk, Hawaiian (='lo)	Buteo solitarius	Onsite	E	N
	,		·	Mammal	Bat, Hawaiian hoary	Lasiurus cinereus semotus	Onsite	E	N
	Hollis Plains TS	ME	5	Mammal	Rabbit, New England cottontail	Sylvilagus transitionalis	Onsite	c	N
	HQ STARC—MO	MO	3	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	ī	N
				Bird	Tern, least	Sterna antillarum	Contiguous	E	N N
	Kanaio Wets	HI	1	Insect	Moth, Blackburn's sphinx	Manduca blackburni	Onsite	E	Y—0
	nanalo WCG	***		Plant	Ohai	Sesbania tomentosa	Onsite	E	N
				Bird	Stilt, Hawaiian (=ae`o)	Himantopus mexicanus knudseni	Onsite	E	N
				Plant	Lau `ehu	Panicum niihauense	Onsite	E	Y_0
	Kingwood	WV	5	Plant	Clover, running buffalo	Trifolium stoloniferum	Onsite	E	N N
	Kwigillingok Scout Armory	AK	7	Bird	Eider, Stellar's	Polysticta stellari	Contiguous	ī	N
	Leesburg TS	SC	4	Bird	Woodpecker, red-cockaded	Picoides borealis	Onsite	E E	N
	reespuig 13	30	,	Plant	Coneflower, smooth	Echinacea laevigata	Onsite	E	N
				Plant	Loosestrife, rough-leaved	Lysimachia asperulaefolia	Onsite	E	N N
	LIL Aaron Strauss	MD	5	Plant	Harperella	Ptilimnium nodosum	Onsite	E	N
	Macon TS	MO	3	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	Ţ	N
	riacon 13	rio	,	Mammal	Bat, Indiana	Myotis sodalis	Onsite	E	N
	MTA Comp Diloo	OR		Bird	<u>'</u>	Haliaeetus leucocephalus	Onsite	T	N N
	MTA Camp Rilea	UK	'		Eagle, bald*	·		ı '	N N
				Bird	Murrelet, marbled	Brachyramphus marmoratus marmoratus	Contiguous	T T	
				Bird	Owl, northern spotted	Strix occidentalis caurina	Contiguous		N N
				Bird	Pelican, brn (Entire pop, except U.S. Atl Cst, FL, AL)	Pelecanus occidentalis	Contiguous	E	N N
				Bird	Plover, western snowy	Charadrius alexandrinus nivosus	Contiguous	Ī	N
				Insect	Butterfly, Oregon silverspot	Speyeria zerene hippolyta	Onsite	Ī	Y—0
	MTA C. CL II	Mc		Mammal	Sea-lion, Steller (=northern)	Eumetopias jubatus	Contiguous	Ī	N
	MTA Camp Shelby	MS	4	Bird	Woodpecker, red-cockaded	Picoides borealis	Contiguous	E	N
				Plant	Quillwort, Louisiana	Isoetes Iouisianensis	Onsite	E	N
				Reptile	Alligator, American	Alligator mississippiensis	Onsite	T(SA)	N
				Reptile	Snake, black pine	Pituophis melanoleucus lodingi	Onsite	(N
	MTC C			Reptile	Tortoise, gopher	Gopherus polyphemus	Onsite	Ţ	N
	MTC Camp Blanding	FL	4	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	Ī	N
				Bird	Jay, Florida scrub	Aphelocoma coerulescens	Onsite	Ī	N
				Bird	Stork, wood	Mycteria americana	Onsite	E	N
				Bird	Woodpecker, red-cockaded	Picoides borealis	Onsite	E	N
				Mammal	Panther, Florida	Puma concolor coryi	Onsite	E	N
				Plant	Rhododendron, Chapman	Rhododendron chapmanii	Onsite	E	N

COMMAND	INSTALLATION	STATE	FWS REGION	CATEGORY	COMMON NAME	SCIENTIFIC NAME	ONSITE/ CONTIGUOUS	STATUS	CRITICAL Habitat
ARNG	MTC Camp Blanding	FL	4	Reptile	Alligator, American	Alligator mississippiensis	Onsite	T(SA)	N
				Reptile	Snake, eastern indigo	Drymarchon corais couperi	Onsite	T	N
	MTC-H Camp Grayling	MI	3	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	T	N
				Bird	Warbler, Kirtland's	Dendroica kirtlandii	Onsite	E	N
				Plant	Goldenrod, Houghton's	Solidago houghtonii	Onsite	T	N
				Reptile	Massasauga, eastern	Sistrurus catenatus catenatus	Onsite	С	N
	MTC-H Camp Guernsey	WY	6	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	ī	N
	MTC-H Camp Roberts	CA	I	Bird	Condor, California	Gymnogyps californianus	Contiguous	E	N
	·			Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	Т	N
				Bird	Vireo, least Bell's	Vireo bellii pusillus	Contiguous	E	N
				Crustacean	Fairy shrimp, vernal pool	Branchinecta lynchi	Onsite	T	N
				Fish	Steelhead (Southern California)	Oncorhynchus mykiss	Onsite	E	N
				Mammal	Fox, San Joaquin kit	Vulpes macrotis mutica	Onsite	E	N
				Plant	Amole, purple	Chlorogalum purpureum	Onsite	T	N
	NG Chevak Armory	AK	7	Bird	Eider, Stellar's	Polysticta stellari	Contiguous	T	N
	NG Elim Armory	AK	7	Bird	Eider, spectacled	Somateria fischeri	Contiguous	T	N N
	NG St. Michael Armory	AK	7	Bird	Eider, spectacled	Somateria fischeri	Contiguous	T T	N N
	NHNG Training Center	NH	5	Plant	Pogonia, small whorled	Isotria medeoloides	Onsite	T .	N N
	OMS 10B/St. George	UT	6	Plant	Bear-poppy, Dwarf	Arctomecon humilis	Onsite	E	N N
	Orchard Range TS Boise	ID	1	Plant	Slickspot peppergrass****	Lepidium Papilliferum	Onsite	PE	N N
	Santa Cruz Armory	CA	1	Plant	Tarplant, Santa Cruz	Holocarpha macradenia	Onsite	'L	Y_0
	Sea Girt	NI	5	Bird	·	Charadrius melodus	Onsite	<u>'</u>	N N
	Sea Girt	NJ	,		Plover, piping			' T	N N
	CMD C D I	1.4		Plant	Amaranth, seabeach	Amaranthus pumilus	Onsite		
	SMR Camp Beauregard	LA	4	Bird	Woodpecker, red-cockaded	Picoides borealis	Contiguous	E	N N
	Springfield AVCRAD/AASF	M0	3	Fish	Cavefish, Ozark	Amblyopsis rosae	Contiguous	I I	N
	State Military Reservation	NH	5	Insect	Butterfly, Karner blue	Lycaeides melissa samuelis	Onsite	E	N
	Stewart River TS	AK	1	Bird	Eider, spectacled	Somateria fischeri	Contiguous	I	N
	TS Garrison	ND	6	Bird	Plover, piping	Charadrius melodus	Contiguous	I	N
	TS Williston	ND	6	Bird	Plover, piping	Charadrius melodus	Contiguous	T	N
	Ukumehame Wets	HI	I	Bird	Coot, Hawaiian (=`alae-ke`oke`o)	Fulica americana alai	Onsite	E	N
				Bird	Duck, Hawaiian (=koloa)	Anas wyvilliana	Onsite	E	N
				Bird	Goose, Hawaiian (=nene)	Branta sandvicensis	Onsite	E	N
				Bird	Moorhen, Hawaiian Common	Gallinula chloropus sandvicensis	Onsite	E	N
				Bird	Stilt, Hawaiian (=ae`o)	Himantopus mexicanus knudseni	Onsite	E	N
NERO	Aberdeen Proving Ground	MD	5	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	T	N
				Fish	Sturgeon, shortnose	Acipenser brevirostrum	Onsite	E	N
	Fort AP Hill	VA	5	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	T	N
				Plant	Pink, swamp	Helonias bullata	Onsite	т	N
				Plant	Pogonia, small whorled	Isotria medeoloides	Onsite	T	N
	Fort Belvoir	VA	5	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	T	N
				Plant	Pogonia, small whorled	Isotria medeoloides	Onsite	T	N
	Fort Dix	NJ	5	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	T	N
	Fort Drum	NY	5	Mammal	Bat, Indiana	Myotis sodalis	Onsite	E	N
	Fort Eustis	VA	5	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	T	N
	Fort Lee	VA	5	Bird	Eagle, bald*	Haliaeetus leucocephalus	Contiguous	Т	N
	Picatinny Arsenal	NJ	5	Mammal	Bat, Indiana	Myotis sodalis	Onsite	E	N
	, , ,	,		Reptile	Turtle, bog (Entire U.S. except, GA, NC, SC, TN, VA.)	Clemmys muhlenbergii	Contiguous	T	N N
	U.S. Army Research Lab Adelphi	MD	5	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	Ī	N N
	West Point Military Reservation	NY	5	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	T T	N N
	rome riman j neservation			Fish	Sturgeon, shortnose	Acipenser brevirostrum	Contiguous	E	N N
PARO	Dillingham Military Reservation	н	1		•	·			
PARO	Dillingham Military Reservation	HI	I	Plant	Ma`o hau hele	Hibiscus brackenridgei	Contiguous	E	N

COMMAND	INSTALLATION	STATE	FWS REGION	CATEGORY	COMMON NAME	SCIENTIFIC NAME	ONSITE/ CONTIGUOUS	STATUS	CRITICAL Habitat
PARO	Dillingham Military Reservation	HI	I	Plant	Ma`oli`oli	Schiedea kealiae	Contiguous	E	N
				Plant	Pu`uka`a	Cyperus trachysanthos	Contiguous	E	N
	Fort Richardson	AK	7	Mammal	Whale, beluga	Delphinapterus leucas	Onsite	PE	N
	Kahuku TA	HI	H	Plant	Haha	Cyanea koolauensis	Onsite	E	N
				Plant	Kaulu	Pteralyxia macrocarpa	Onsite	С	N
				Plant	Nanu	Gardenia mannii	Onsite	E	N
				Plant	Nioi	Eugenia koolauensis	Onsite	E	N
				Plant	Ohe` ohe	Tetraplasandra gymnocarpa	Onsite	E	N
				Snail	Pupu kuahiwi	Achatinella curta	Onsite	E	N
				Snail	Pupu kuahiwi	Achatinella sowerbyana	Onsite	E	N
	Kawailoa TA	HI	I	Insect	Damselfly, blackline Hawaiian	Megalagrion nigrohamatum nigrolineatum	Onsite	С	N
				Plant	Akoko	Chamaesyce rockii	Onsite	E	N
				Plant	Alani	Melicope hiiakae	Onsite	С	N
				Plant	Alani	Melicope lydgatei	Onsite	E	N
				Plant	Boyd's maiden fern	Christella boydiae	Onsite	С	N
				Plant	, Ha`iwale	Cyrtandra dentata	Onsite	E	N
				Plant	Ha`iwale	Cyrtandra viridiflora	Onsite	E	N
				Plant	Haha	Cyanea acuminata	Onsite	E	N
				Plant	Haha	Cyanea calycina	Onsite	С	N
				Plant	Haha	Cyanea crispa	Onsite	E	N
				Plant	Haha	Cyanea humboldtiana	Onsite	E	N
				Plant	Haha	Cyanea koolauensis	Onsite	E	N
				Plant	Haha	Cyanea st-johnii	Onsite	E	N
				Plant	Kampua`a	Hedyotis fluviatilis	Onsite	С	N
				Plant	Kaulu	Pteralyxia macrocarpa	Onsite	С	N
				Plant	Kolea	Myrsine juddii	Onsite	E	N
				Plant	Nanu	Gardenia mannii	Onsite	E	N
				Plant	No common name	Hesperomannia arborescens	Onsite	E	N
				Plant	No common name	Lobelia oahuensis	Onsite	E	N
				Plant	No common name	Phlegmariurus nutans	Onsite	E	N
				Plant	No common name	Phyllostegia hirsuta	Onsite	E	N
				Plant	No common name	Phyllostegia parviflora	Onsite	E	N
				Plant	No common name	Platydesma cornuta cornuta	Onsite	С	N
				Plant	No common name	Pteris lidgatei	Onsite	E	N
				Plant	No common name	Sanicula purpurea	Onsite	E	N N
				Plant	No common name	Viola oahuensis	Onsite	E	N
				Plant	Ohe	Joinvillea ascendens ascendens	Onsite	c	N N
				Plant	Ohe'ohe	Tetraplasandra gymnocarpa	Onsite	E	N N
				Snail	Pupu kuahiwi	Achatinella apexfulva	Onsite	E	N
				Snail	Pupu kuahiwi	Achatinella bulimoides	Onsite	E	N N
				Snail	Pupu kuahiwi	Achatinella byronii	Onsite	E	N N
				Snail	Pupu kuahiwi	Achatinella curta	Onsite	E	N N
				Snail	Pupu kuahiwi	Achatinella lila	Onsite	E	N N
				Snail	Pupu kuahiwi	Achatinella livida	Onsite	E	N N
				Snail	Pupu kuahiwi	Achatinella pulcherrima	Onsite	E	N N
				Snail	Pupu kuahiwi	Achatinella sowerbyana	Onsite	E	N N
	Makua Military Reservation	НІ		Bird	Elepaio, Oahu	Chasiempis sandwichensis ibidis	Onsite	E	Y_0
	I neservation	•••		Plant	Aiakeakua, popolo	Solanum sandwicense	Contiguous	E	Y—C
				Plant	Aiea	Nothocestrum latifolium	Onsite	C	N
				Plant	Akoko	Chamaesyce celastroides var. kaenana	Onsite	E	Y—C

COMMAND	INSTALLATION	STATE	FWS REGION	CATEGORY	COMMON NAME	SCIENTIFIC NAME	ONSITE/ CONTIGUOUS	STATUS	CRITICAL Habitat
PARO	Makua Military Reservation	НІ	I	Plant	Akoko	Chamaesyce herbstii	Onsite	E	Y—C
				Plant	Akoko	Euphorbia haeleeleana	Onsite	E	Y—C
				Plant	Alani	Melicope pallida	Contiguous	E	Y—C
				Plant	Anaunau	Lepidium arbuscula	Onsite	E	N
				Plant	Aupaka	Isodendrion longifolium	Contiguous	T	Y—C
				Plant	Ha`iwale	Cyrtandra dentata	Onsite	E	Y—C
l				Plant	Haha	Cyanea grimesiana ssp. obatae	Onsite	E	Y—C
				Plant	Haha	Cyanea longiflora	Onsite	E	Y—C
				Plant	Haha	Cyanea superba	Onsite	E	N
				Plant	Haha	Lobelia niihauensis	Onsite	E	N
				Plant	Hulumoa	Korthalsella degeneri	Onsite	С	N
				Plant	Kamanomano	Cenchrus agrimonioides	Onsite	E	N N
				Plant	Kauila	Colubrina oppositifolia	Contiguous	E	Y—C
				Plant	Kaulu	Pteralyxia macrocarpa	Onsite	C	N
				Plant	Kuahiwi laukahi	Plantago princeps	Onsite	E	N
				Plant	Kulu`i	Nototrichium humile	Onsite	E	Y—C
				Plant	Lo`ulu	Pritchardia kaalae	Onsite	E	N N
				Plant	Ma'o hau hele	Hibiscus brackenridgei	Onsite	E	N N
					Ma'aloa	· ·		E	Y—C
				Plant		Neraudia angulata	Onsite		i—L N
l				Plant	Mahoe	Alectryon macrococcus	Onsite	E	N
				Plant	Makou	Peucedanum sandwicense	Onsite	Ī	N
				Plant	Mehamehame	Flueggea neowawraea	Onsite	E	Y—C
				Plant	Na`ena`e	Dubautia herbstobatae	Onsite	E	Y—C
				Plant	Nehe	Lipochaeta tenuifolia	Onsite	E	Y—C
				Plant	Noho, Kula wahine	Isodendrion pyrifolium	Contiguous	E	Y—C
				Plant	No common name	Abutilon sandwicense	Onsite	E	N
				Plant	No common name	Alsinidendron obovatum	Onsite	E	Y—C
				Plant	No common name	Bonamia menziesii	Onsite	E	Y—C
				Plant	No common name	Diellia falcata	Onsite	E	Y—C
				Plant	No common name	Gouania vitifolia	Onsite	E	Y—C
				Plant	No common name	Hedyotis degeneri	Onsite	E	Y—C
				Plant	No common name	Hedyotis parvula	Onsite	E	Y—C
				Plant	No common name	Hesperomannia arbuscula	Onsite	E	YC
				Plant	No common name	Lobelia oahuensis	Onsite	E	N
				Plant	No common name	Mariscus pennatiformis	Contiguous	E	Y—C
				Plant	No common name	Phyllostegia kaalaensis	Onsite	E	Y—C
				Plant	No common name	Platydesma cornuta cornuta	Onsite	С	N
				Plant	No common name	Sanicula mariversa	Onsite	E	YC
				Plant	No common name	Schiedea hookeri	Onsite	E	ү—с
				Plant	No common name	Schiedea kaalae	Onsite	E	Y—С
				Plant	No common name	Schiedea nuttallii	Onsite	E	Y—C
				Plant	No common name	Silene lanceolata	Onsite	E	N
				Plant	No common name	Spermolepis hawaiiensis	Onsite	E	YC
				Plant	No common name	Tetramolopium filiforme	Onsite	E	N
				Plant	Oha	Delissea subcordata	Onsite	E	Y—C
				Plant	Pamakani	Viola commissoniana ssp. chamissoniana	Onsite	E	N
				Plant	Pauoa	Ctenitis squamigera	Onsite	E	N N
				Snail	Pupu kuahiwi	Achatinella mustelina	Onsite	E	N N
	Pohakuloa TA	HI	1	Bird	Hawk, Hawaiian (='lo)	Buteo solitarius	Onsite	E	N N
	I Ullandiva TA	"		Bird	Goose, Hawaiian (= nene)	Branta sandvicensis	Onsite	E	N N
				Bird		Loxioides bailleui	Contiguous	E	Y—0
				Dila	Palila (honeycreeper)	Loxioldes Dailleal	contiguous	E	1-0

COMMAND	INSTALLATION	STATE	FWS REGION	CATEGORY	COMMON NAME	SCIENTIFIC NAME	ONSITE/ CONTIGUOUS	STATUS	CRITICAL Habitat									
PARO	Pohakuloa TA	HI	1	Mammal	Bat, Hawaiian hoary	Lasiurus cinereus semotus	Onsite	E	N									
				Plant	A`e	Zanthoxylum hawaiiense	Onsite	E	N									
				Plant	Aupaka	Isodendrion hosakae	Onsite	E	N									
				Plant	Honohono	Haplostachys haplostachya	Onsite	E	N									
				Plant	Kio`ele	Hedyotis coriacea	Onsite	E	N									
				Plant	Maaloa	Neraudia Ovata	Onsite	E	N									
				Plant	No common name	Asplenium fragile var.insulare	Onsite	E	N									
				Plant	No common name	Lipochaeta venosa	Onsite	E	N									
				Plant	No common name	Silene hawaiiensis	Onsite	T	N									
				Plant	No common name	Silene lanceolata	Onsite	E	N									
				Plant	No common name	Spermolepis hawaiiensis	Onsite	E	N									
				Plant	No common name	Stenogyne angustifolia	Onsite	E	N									
				Plant	No common name	Vigna o-wahuensis	Onsite	E	N									
				Plant	Pamakani, Mauna Kea	Tetramolopium arenarium var. arenarium	Onsite	E	N									
				Plant	Po`e	Portulaca sclerocarpa	Onsite	E	N									
				Plant	Popolo ku mai	Solanum incompletum	Onsite	E	N									
	Schofield Barracks	Н	I	Bird	Elepaio, Oahu	Chasiempis sandwichensis ibidis	Onsite	E	Y—0									
				Insect	Damselfly, crimson Hawaiian	Megalagrion leptodemus	Onsite	T	N									
				Plant	Akoko	Chamaesyce rockii	Onsite	E	N									
				Plant	Anaunau	Lepidium arbuscula	Onsite	E	N									
				Plant	Aupaka	Isodendrion longifolium	Onsite	T	N									
				Plant	Ha`iwale	Cyrtandra subumbellata	Onsite	E	N									
				Plant	Ha`iwale	Cyrtandra viridiflora	Onsite	E	N									
						Plant	Haha	Cyanea acuminata	Onsite	E	N							
				Plant	Haha	Cyanea calycina	Onsite	С	N									
			Plant Haha Cyanea grimesiana ssp. obatae Plant Haha Cyanea koolauensis Plant Haha Cyanea st-johnii Plant Kamakahala Labordia cyrtandrae Plant Kamanomano Cenchrus agrimonioides Plant Kaulu Pteralyxia macrocarpa	· · · · · · · · · · · · · · · · · · ·	Onsite	E	N											
				· ·	Onsite	E	N N											
						-	_ _ _ _ _	- - - -	- - -	-	-			· ·	Onsite	E	N N	
															· · ·	Onsite	E	N
																	Onsite	E
														•	Onsite	- C	N N	
									Plant	Kuahiwi laukahi	Plantago princeps	Onsite	E	N N				
				Plant	Ma'aloa	Neraudia angulata	Onsite	E	N N									
				Plant	Mahoe	Alectryon macrococcus	Onsite	E	N N									
				Plant	Mehamehame	Flueggea neowawraea	Onsite	E	N N									
				Plant	Nanu	Gardenia mannii	Onsite	E	N N									
				Plant	No common name	Abutilon sandwicense	Onsite	E	N									
				Plant	No common name	Alsinidendron trinerve	Onsite	E	N									
				Plant	No common name	Diellia falcata	Onsite	E	N									
				Plant	No common name	Hesperomannia arborescens	Onsite	E	N									
				Plant	No common name	Lobelia gaudichaudii ssp. koolauensis	Onsite	E	N									
				Plant	No common name	Lobelia niihauensis	Onsite	E	N									
				Plant	No common name	Lobelia oahuensis	Onsite	E	N N									
				Plant	No common name	Phlegmariurus nutans	Onsite	E	N									
				Plant	No common name	Phyllostegia hirsuta	Onsite	E	N									
				Plant	No common name		Onsite	E	N									
													Plant	No common name	Phyllostegia kaalaensis Platydesma cornuta descurrens	Onsite	C	N N
				Plant	No common name		Onsite	E	N N									
						Pteris lidgatei			N									
				Plant	No common name	Sanicula purpurea	Onsite	E	N									
				Plant	No common name	Schiedea hookeri	Onsite	E	N N									
				Plant	No common name	Schiedea kaalae	Onsite	E	N									

COMMAND	INSTALLATION	STATE	FWS REGION	CATEGORY	COMMON NAME	SCIENTIFIC NAME	ONSITE/ CONTIGUOUS	STATUS	CRITICAL Habitat
PARO	Schofield Barracks	HI	I	Plant	No common name	Schiedea nuttallii	Onsite	E	N
				Plant	No common name	Stenogyne kanehoana	Onsite	E	N
				Plant	No common name	Viola oahuensis	Onsite	E	N
				Plant	0ha	Delissea subcordata	Onsite	E	N
				Plant	Ohe	Joinvillea ascendens ascendens	Onsite	С	N
				Plant	Ohe`ohe	Tetraplasandra gymnocarpa	Onsite	E	N
				Plant	Opuhe	Urera kaalae	Onsite	E	N
				Plant	Pamakani	Viola chamissoniana ssp. chamissoniana	Onsite	E	N
				Plant	Pauoa	Ctenitis squamigera	Onsite	E	N
				Snail	Pupu kuahiwi	Achatinella byronii	Onsite	E	N
				Snail	Pupu kuahiwi	Achatinella mustelina	Onsite	E	N
				Snail	Pupu kuahiwi	Achatinella sowerbyana	Onsite	E	N
	Tripler Army Medical Center	НІ	1	Insect	Damselfly, orangeblack Hawaiian	Megalagrion xanthomelas	Onsite	С	N
SERO	Fort Benning	GA	4	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	T	N
	8			Bird	Stork, wood	Mycteria americana	Onsite	E	N
				Bird	Woodpecker, red-cockaded	Picoides borealis	Onsite	E	N N
				Plant	Trillium, relict	Trillium reliquum	Onsite	E	N N
				Reptile	Alligator, American	Alligator mississippiensis	Onsite	T(SA)	N N
	Fort Bragg	NC	4	Bird	Woodpecker, red-cockaded	Picoides borealis	Onsite	E	N N
	Tore bragg	nc nc	7	Insect	Butterfly, Saint Francis' satyr	Neonympha mitchellii francisci	Onsite	E	N N
				Plant	Chaffseed, American	Schwalbea americana	Onsite	E	N N
				Plant	Loosestrife, rough-leaved	Lysimachia asperulaefolia	Onsite	E	N
				Plant	Sumac, Michaux's			E	N N
	Cont Dunkanna	DD.	4		· · · · · · · · · · · · · · · · · · ·	Rhus michauxii	Onsite		
	Fort Buchanan	PR	4	Plant	Palo de rosa	Ottoschulzia rhodoxylon	Onsite	E	N
	F . C . L !!	101		Reptile	Boa, Puerto Rican	Epicrates inornatus	Onsite	E	N
	Fort Campbell	KY	4	Mammal	Bat, gray	Myotis grisescens	Onsite	E	N
	F . C . I			Mammal	Bat, Indiana	Myotis sodalis	Onsite	E	N
	Fort Gordon	GA	4	Bird	Eagle, bald*	Haliaeetus leucocephalus	Contiguous	T	N
				Bird	Stork, wood	Mycteria americana	Contiguous	E	N
				Bird	Woodpecker, red-cockaded	Picoides borealis	Onsite	E	N
				Reptile	Alligator, American	Alligator mississippiensis	Onsite	T(SA)	N
	Fort Jackson	SC	4	Bird	Woodpecker, red-cockaded	Picoides borealis	Onsite	E	N
				Plant	Coneflower, smooth	Echinacea laevigata	Onsite	E	N
				Plant	Loosestrife, rough-leaved	Lysimachia asperulaefolia	Onsite	E	N
	Fort Knox	KY	4	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	T	N
				Mammal	Bat, gray	Myotis grisescens	Onsite	E	N
				Mammal	Bat, Indiana	Myotis sodalis	Onsite	E	N
	Fort Polk	LA	4	Bird	Woodpecker, red-cockaded	Picoides borealis	Onsite	E	N
				Reptile	Pine snake, Louisiana	Pituophis ruthveni	Onsite	С	N
	Fort Rucker	AL	4	Bird	Eagle, bald*	Haliaeetus leucocephalus	Contiguous	Ţ	N
	Fort Stewart	GA	4	Amphibian	Salamander, flatwoods	Ambystoma cingulatum	Onsite	T	N
				Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	T	N
				Bird	Stork, wood	Mycteria americana	Onsite	E	N
				Bird	Woodpecker, red-cockaded	Picoides borealis	Onsite	E	N
				Fish	Sturgeon, shortnose	Acipenser brevirostrum	Onsite	E	N
				Reptile	Snake, eastern indigo	Drymarchon corais couperi	Onsite	ī	N
	Military Ocean Terminal Sunny Point	NC	4	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	ī	N
				Bird	Woodpecker, red-cockaded	Picoides borealis	Onsite	E	N
				Mammal	Manatee, West Indian (=Florida)	Trichechus manatus	Contiguous	E	N
				Plant	Loosestrife, roughleaved	Lysimachia asperulaefolia	Onsite	E	N

COMMAND	INSTALLATION	STATE	FWS REGION	CATEGORY	COMMON NAME	SCIENTIFIC NAME	ONSITE/ CONTIGUOUS	SUTATZ	CRITICAL HABITAT
SERO	Military Ocean Terminal Sunny Point	NC	4	Reptile	Alligator, American	Alligator mississippiensis	Onsite	T(SA)	N
				Reptile	Sea turtle, green	Chelonia mydas	Contiguous	T	N
				Reptile	Sea turtle, Kemp's ridley	Lepidochelys kempii	Contiguous	E	N
				Reptile	Sea turtle, leatherback	Dermochelys coriacea	Contiguous	E	N
				Reptile	Sea turtle, loggerhead	Caretta caretta	Contiguous	T	N
	Redstone Arsenal	AL	4	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	ī	N
				Crustacean	Shrimp, Alabama cave	Palaemonias alabamae	Onsite	E	N
				Mammal	Bat, gray	Myotis grisescens	Onsite	E	N
				Mammal	Bat, Indiana	Myotis sodalis	Contiguous	E	N
				Plant	Potato-bean, Price's	Apios priceana	Onsite	T	N
USAR-63rd RRC	63rd RRC	CA	1	Plant	Sunburst, Hartweg's golden	Pseudobahia bahiifolia	Contiguous	E	N
	AMSA 13 (M), Mare Isle	CA	I	Bird	Pelican, brown (Entire pop, except U.S. Atl Cst, FL, AL)	Pelecanus occidentalis	Onsite	E	N
	()			Bird	Tern, California least	Sterna antillarum browni	Onsite	E	N
				Fish	Salmon, chinook (CA, Sacramento River-winter run)	Oncorhynchus tshawytscha	Onsite	T	N
				Fish	Smelt, delta	Hypomesus transpacificus	Contiguous	T	N
				Fish	Steelhead (Central California Coastal)	Oncorhynchus mykiss	Contiguous	ī	N
				Fish	Steelhead (Central Valley California)	Oncorhynchus mykiss	Contiguous	ī	N
				Fish	Sturgeon, green	Acipenser medirostris	Contiguous	ī	N
	BT Collins Enclave	CA	1	Crustacean	Fairy shrimp, vernal pool	Branchinecta lynchi	Onsite	ī	N
	Leymel Hall USARC	CA	i	Mammal	Kangaroo rat, giant	Dipodomys ingens	Contiguous	E	N N
	Leymer num osmic	Cit	·	Plant	Sunburst, San Joaquin adobe	Pseudobahia peirsonii	Contiguous	ī	N N
				Plant	Wooly-threads, San Joaquin	Monolopia congdonii	Contiguous	E	N
	LTAMoss Landing	CA	1	Bird	Pelican, Brown (Entire pop, expt U.S. Atl Cst, FL, AL)	Pelecanus occidentalis	Onsite	E	N N
	LIA 11033 Landing	CA .	'	Bird	Plover, western snowy	Charadrius alexandrinus nivosus	Onsite	T	N
				Mammal	Otter, southern sea	Enhydra lutris nereis	Onsite	T T	N
				Plant	Gilia, Monterey	Gilia tenuiflora ssp.arenaria	Onsite	E	N
				Plant	Spineflower, Monterey	Chorizanthe pungens var. pungens	Onsite	Ī	N
	March USARC/AMSA 19(G)	CA	1	Mammal	Kangaroo rat, San Bernardino Merriam's	Dipodomys merriami parvus	Contiguous	E	N
	Harcii OSANC/AHSA 17(0)	Ch	'	Mammal	Kangaroo rat, Stephens'	Dipodomys stephensi (incl. D. cascus)	Contiguous	E	N
				Mammal	Mouse, Pacific pocket	Perognathus longimembris pacificus	Contiguous	E	N
				Plant	Daisy, Parish's	Erigeron parishii	Contiguous	T T	N
				Reptile	Lizard, Coachella Valley fringe-toed	Uma inornata	Contiguous	'	N
	Marina USARC/OMS/AMSA 12 S-S	CA	1	Plant	Gilia, Monterey	Gilia tenuiflora ssp.arenaria	Onsite	Ė	N
	Harina OSANC/OHS/AHSA 12 3-3	CA	'	Plant	Spineflower, Monterey	·	Onsite	ī	N
	PFC L.T. Baccigleiri Hall AFRC	CA		Amphibian	Frog, California red-legged	Chorizanthe pungens var. pungens Rana aurora draytonii	Contiguous	T T	N
	TTC L.T. Daccigletti tiali ATRC	CA	'	Bird	Tern, California least	Sterna antillarum browni	Contiguous	'E	N
				Plant	Fiddleneck, large-flowered	Amsinckia grandiflora		E	N
	Quinones AFRC	CA	1	Mammal	Fox, San Joaquin kit	Vulpes macrotis mutica	Contiguous Contiguous	E	N
	Tustin USARC	CA	1	Bird	Flycatcher, southwestern willow	Empidonax traillii extimus	Contiguous	E	N
	Tustill OSANC	CA	'	Plant	Brodiaea, thread-leaved	Brodiaea filifolia	Contiguous	'T	N
				Plant			Onsite	C	N
	Victorville USARC/ASF	CA	1		Spineflower, San Fernado Valley Tortoise, desert	Chorizanthe parryi fernandina		Ī	N
USAR-70th RRC	Fort Lawton USAR Complex	WA	1	Reptile Bird	Fagle, bald*	Gopherus agassizii Haliaeetus leucocephalus	Contiguous Contiguous	T T	N N
	·	WA	<u>'</u>	Bird	-	Haliaeetus leucocephalus		T T	N N
	LTA-AVN TNG Area (Weyerhaeuser)	WA	1	Bird	Eagle, bald*	· ·	Contiguous Onsite	T T	Y—C
					Murrelet, marbled	Brachyramphus marmoratus marmoratus		T T	
	Diam 32 HCADC	\A/A		Bird	Owl, northern spotted	Strix occidentalis caurina	Onsite	T T	Y—0
	Pier 23 USARC	WA		Fish	Salmon, chinook	Oncorhynchus tshawytscha Salvelinus confluentus	Onsite		N
				Fish	Trout, bull		Onsite	Ī	N
HCVD OVI DEC	Tois bear HEADCHARD #122	0''		Mammal	Whale, southern resident killer	Orcinus orca	Contiguous	E	N
USAK-88th KKC	Twinsburg USARC/AMSA #123	ОН	3	Mammal	Bat, Indiana	Myotis sodalis	Onsite	E	N

COMMAND	INSTALLATION	STATE	FWS REGION	CATEGORY	COMMON NAME	SCIENTIFIC NAME	ONSITE/ CONTIGUOUS	STATUS	CRITICAL Habitat					
WEST	Dugway Proving Ground	UT	6	Bird	Eagle, bald*	Haliaeetus leucocephalus	Contiguous	Ţ	N					
	Fort Bliss	TX	2	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	T	N					
				Bird	Falcon, northern Aplomado	Falco femoralis septentrionalis	Onsite	E	N					
				Plant	Cactus, Kuenzler hedgehog	Echinocereus fendleri	Onsite	E	N					
				Plant	Cactus, Sneed pincushion	Coryphantha sneedii	Onsite	E	N					
	Fort Carson	СО	6	Bird	Owl, Mexican spotted	Strix occidentalis lucida	Contiguous	Т	N					
				Fish	Darter, Arkansas	Etheostoma cragini	Onsite	С	N					
				Mammal	Mouse, Preble's meadow jumping	Zapus hudsonius preblei	Contiguous	Т	N					
				Plant	Ladies'-tresses, Ute	Spiranthes diluvialis	Contiguous	Т	N					
·	Fort Hood	TX	2	Bird	Crane, whooping	Grus americana	Onsite	E	N					
				Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	T	N					
				Bird	Vireo, black-capped	Vireo atricapilla	Onsite	E	N					
				Bird	Warbler, golden-cheeked	Dendroica chrysoparia	Onsite	E	N					
	Fort Huachuca	AZ	2	Amphibian	Salamander, Sonoran tiger	Ambystoma tigrinum stebbinsi	Onsite	E	N					
			_	Bird	Cuckoo, yellow-billed (Western U.S.)	Coccyzus americanus	Onsite	C	N N					
				Bird	Flycatcher, southwestern willow	Empidonax traillii extimus	Contiguous	E	N N					
				Bird	Owl, Mexican spotted	Strix occidentalis lucida	Onsite	Ī	N N					
				Fish	Minnow, loach	Tiaroga cobitis	Contiguous	T	N N					
				Fish	Spikedace	Meda fulgida	Contiguous	T T	N N					
				Mammal	Bat, lesser long-nosed	Leptonycteris curasoae yerbabuenae	Onsite	E .	N N					
				Plant	Fleabane, Lemmon	Erigeron lemmonii	Onsite	C	N					
				Plant	Water-umbel, Huachuca	Lilaeopsis schaffneriana ssp.recurva	Onsite	E	Y—0					
				Snail	Springsnail, Huachuca		Onsite	C	N N					
	Cant Hunton Lineatt	Fort Hunter Liggett CA	CA I	Amphibian		Pyrgulopsis thompsoni	Onsite	ī	N N					
	rort nunter tiggett	CA	LA CA	CA	LA	CA	CA	'		Frog, California red-legged	Rana aurora draytonii		T T	N N
				Amphibian	Salamander, California tiger	Ambystoma californiense	Onsite							
				Amphibian	Toad, arroyo	Bufo californicus	Onsite	E	N N					
				Bird	Condor, California	Gymnogyps californianus	Onsite	E	N					
				Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	Ī	N					
				Bird	Vireo, least Bell's	Vireo bellii pusillus	Contiguous	E -	N					
				Crustacean	Fairy shrimp, vernal pool	Branchinecta lynchi	Onsite	T	N					
				Mammal	Fox, San Joaquin kit	Vulpes macrotis mutica	Onsite	E	N					
		ļ		Plant	Amole, purple	Chlorogalum purpureum	Onsite	T	N					
	Fort Leavenworth	KS	6	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	T	N					
				Fish	Sturgeon, pallid	Scaphirhynchus albus	Onsite	E	N					
	Fort Leonard Wood	M0	3	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	Т	N					
				Mammal	Bat, gray	Myotis grisescens	Onsite	E	N					
				Mammal	Bat, Indiana	Myotis sodalis	Onsite	E	N					
	Fort Lewis	WA WA	1	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	T	N					
				Bird	Lark, streaked horned	Eremophila alpestris strigata	Onsite	С	N					
				Bird	Murrelet, marbled	Brachyramphus marmoratus marmoratus	Contiguous	Т	N					
				Bird	Owl, northern spotted**	Strix occidentalis caurina	Contiguous	T	Y—0					
				Fish	Salmon, chinook	Oncorhynchus tshawytscha	Onsite	T	N					
			Fish	Steelhead (Lower Columbia River)	Oncorhynchus mykiss	Onsite	T	N						
			Fish	Trout, bull	Salvelinus confluentus	Onsite	Т	N						
		Insect	Butterfly, Whulge checkerspot	Euphydryas editha taylori	Onsite	С	N							
		Insect	Skipper, Mardon	Polites mardon	Onsite	С	N							
			Mammal	Pocket gopher, Mazama	Thomomys mazama	Onsite	С	N						
				Mammal	Whale, southern resident killer	Orcinus orca	Contiguous	E	N					
				Plant	Howellia, water	Howellia aquatilis	Onsite	T	N					
		L		Plant	Paintbrush, golden	Castilleja levisecta	Contiguous	Ţ	N					

COMMAND	INSTALLATION	STATE	FWS REGION	CATEGORY	COMMON NAME	SCIENTIFIC NAME	ONSITE/ CONTIGUOUS	STATUS	CRITICAL Habitat
WEST	Fort McCoy	WI	3	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	Ţ	N
	,			Insect	Butterfly, Karner blue	Lycaeides melissa samuelis	Onsite	E	N
				Mammal	Wolf, gray***	Canis lupus	Onsite	E	N
	Fort Riley	KS	6	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	Ţ	N
	,			Bird	Plover, piping	Charadrius melodus	Onsite	T	N
				Bird	Tern, least	Sterna antillarum	Onsite	E	N
				Fish	Shiner, Topeka	Notropis topeka	Onsite	E	N
	Fort Sam Houston	TX	2	Bird	Vireo, black-capped	Vireo atricapilla	Onsite	E	N
				Bird	Warbler, golden-cheeked	Dendroica chrysoparia	Onsite	E	N
				Insect	Ground beetle	Rhadine exilis	Onsite	E	N
				Insect	Ground beetle	Rhadine infernalis	Onsite	E	N
				Other Invertebrate	Madla's cave meshweaver	Cicurina madla	Onsite	E	N
	Fort Sill	OK	2	Bird	Vireo, black-capped	Vireo atricapilla	Onsite	E	N
	National Training Ctr & Ft Irwin	CA	I	Plant	Milk-vetch, Lane Mountain	Astragalus jaegerianus	Onsite	E	N
				Reptile	Tortoise, desert	Gopherus agassizii	Onsite	Ţ	Y—0
	Pinon Canyon	СО	6	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	Ţ	N
	Presidio of Monterey	CA	I	Plant	Spineflower, Monterey	Chorizanthe pungens var. pungens	Onsite	Ţ	Y—0
	,	,		Plant	Yadon's piperia	Piperia Yadonii	Onsite	E	N
	Rock Island Arsenal	IL	3	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	ī	N
	U.S. Army CSTC And Camp Parks	CA	I	Amphibian	Frog, California red-legged	Rana aurora draytonii	Onsite	Ţ	N
				Amphibian	Salamander, California tiger	Ambystoma californiense	Onsite	E	N
				Mammal	Fox, San Joaquin kit	Vulpes macrotis mutica	Contiguous	E	N
	White Sands Missile Range	NM	2	Bird	Cuckoo, yellow-billed (Western U.S.)	Coccyzus americanus	Onsite	С	N
				Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	Ţ	N
				Bird	Falcon, northern Aplomado#	Falco femoralis septentrionalis	Onsite	PT	N
				Bird	Flycatcher, southwestern willow	Empidonax traillii extimus	Contiguous	E	N
				Bird	Owl, Mexican spotted	Strix occidentalis lucida	Contiguous	Ţ	N
				Bird	Pelican, brown (Entire pop, expt U.S. Atl Cst, FL, AL)	Pelecanus occidentalis	Onsite	E	N
				Bird	Tern, least	Sterna antillarum	Onsite	E	N
				Mammal	Jaguar	Panthera onca	Onsite	E	N
				Plant	Pennyroyal, Todsen's	Hedeoma todsenii	Onsite	E	Y—0
	Yakima Training Center	WA	I	Bird	Eagle, bald*	Haliaeetus leucocephalus	Onsite	T	N
				Bird	Grouse, greater sage (Columbia Basin DPS, WA)	Centrocercus urophasianus phaios	Onsite	С	N
				Fish	Salmon, chinook (T=WA)	Oncorhynchus tshawytscha	Onsite	T	N
					naturally spawned populations in the				
					Columbia R. tributaries upstream				
					of Rock Island Dam and downstream				
					of ChiefJoseph Dam)				
				Fish	Steelhead (Middle Columbia River)	Oncorhynchus mykiss	Onsite	Ţ	N
				Fish	Steelhead (Upper Columbia River)	Oncorhynchus mykiss	Onsite	E	N
				Fish	Trout, bull	Salvelinus confluentus	Contiguous	T	N
				Plant	Daisy, basalt	Erigeron basalticus	Onsite	С	N

[&]quot;Y-O"—critical habitat on installation

 $[\]hbox{``Y-C"}-critical\ habitat\ contiguous\ to\ installation,\ but\ within\ action\ area}\\$

^{*} Delisted 8 August 2007

^{**} Critical habitat redesignated (13 August 2008). Critical habitat no longer designated on installation.

^{***} Delisted 12 March 2007; listing reinstated by court order

^{****} Proposed rule withdrawn 12 January 2007

B

APPENDIX B: T&E SPECIES AND INSTALLATIONS WHERE RECORDED—SORTED BY SCIENTIFIC NAME

SCIENTIFIC NAME	COMMON NAME	STATUS	CATEGORY	COMMAND	FWS REGION	INSTALLATION	STATE	ONSITE/ CONTIGUOUS	CRITICAL Habitat
Abutilon sandwicense	No common name	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
Achatinella apexfulva	Pupu kuahiwi	E	Snail	PARO	I	Kawailoa TA	HI	Onsite	N
Achatinella bulimoides	Pupu kuahiwi	E	Snail	PARO	I	Kawailoa TA	HI	Onsite	N
Achatinella byronii	Pupu kuahiwi	E	Snail	PARO	I	Kawailoa TA	HI	Onsite	N
		E	Snail	PARO	I	Schofield Barracks	HI	Onsite	N
Achatinella curta	Pupu kuahiwi	E	Snail	PARO	I	Kahuku TA	HI	Onsite	N
		E	Snail	PARO	I	Kawailoa TA	HI	Onsite	N
Achatinella lila	Pupu kuahiwi	E	Snail	PARO	I	Kawailoa TA	HI	Onsite	N
Achatinella livida	Pupu kuahiwi	E	Snail	PARO	I	Kawailoa TA	HI	Onsite	N
Achatinella mustelina	Pupu kuahiwi	E	Snail	PARO	I	Makua Military Reservation	HI	Onsite	N
		E	Snail	PARO	I	Schofield Barracks	HI	Onsite	N
Achatinella pulcherrima	Pupu kuahiwi	E	Snail	PARO	I	Kawailoa TA	HI	Onsite	N
Achatinella sowerbyana	Pupu kuahiwi	E	Snail	PARO	I	Kahuku TA	HI	Onsite	N
		E	Snail	PARO	I	Kawailoa TA	HI	Onsite	N
		E	Snail	PARO	I	Schofield Barracks	HI	Onsite	N
Acipenser brevirostrum	Sturgeon, shortnose	E	Fish	ARNG	5	Camp Smith CSMS A	NY	Contiguous	N
		E	Fish	NERO	5	Aberdeen Proving Ground	MD	Onsite	N
		E	Fish	NERO	5	West Point Military Reservation	NY	Contiguous	N
		E	Fish	SERO	4	Fort Stewart	GA	Onsite	N
Acipenser medirostris	Sturgeon, green	T	Fish	USAR- 63rd RRC	I	AMSA 13 (M), Mare Isle	CA	Contiguous	N
Alectryon macrococcus	Mahoe	E	Plant	PARO	ı	Makua Military Reservation	НІ	Onsite	N
'		E	Plant	PARO	ı	Schofield Barracks	HI	Onsite	N
Alligator mississippiensis	Alligator, American	T(SA)	Reptile	AMC	2	Lone Star AAP	TX	Onsite	N
		T(SA)	Reptile	ARNG	4	MTA Camp Shelby	MS	Onsite	N
		T(SA)	Reptile	ARNG	4	MTC Camp Blanding	FL	Onsite	N
		T(SA)	Reptile	SERO	4	Fort Benning	GA	Onsite	N
		T(SA)	Reptile	SERO	4	Fort Gordon	GA	Onsite	N
		T(SA)	Reptile	SERO	4	Military Ocean Terminal Sunny Point	NC	Onsite	N
Alsinidendron obovatum	No common name	E	Plant	PARO	ı	Makua Military Reservation	НІ	Onsite	Y—С
Alsinidendron trinerve	No common name	E	Plant	PARO	1	Schofield Barracks	НІ	Onsite	N
Amaranthus pumilus	Amaranth, seabeach	T	Plant	ARNG	5	Sea Girt	Nj	Onsite	N
Amblyopsis rosae	Cavefish, Ozark	ī	Fish	ARNG	3	Camp Crowder	MO	Contiguous	N
, ' '	, , , , , , , , , , , , , , , , , , ,	Ţ	Fish	ARNG	3	Springfield AVCRAD/AASF	MO	Contiguous	N
Ambystoma californiense	Salamander, California tiger	T	Amphibian	WEST	1	Fort Hunter Liggett	CA	Onsite	N
,		E	Amphibian	WEST	1	U.S. Army CSTC And Camp Parks	CA	Onsite	N
Ambystoma cingulatum	Salamander, flatwoods	Ţ	Amphibian	SERO	4	Fort Stewart	GA	Onsite	N
Ambystoma tigrinum stebbinsi	Salamander, Sonoran tiger	E	Amphibian	WEST	2	Fort Huachuca	AZ	Onsite	N
Amsinckia grandiflora	Fiddleneck, large-flowered	E	Plant	USAR-63rd RRC	1	PFC L.T. Baccigleiri Hall AFRC	CA	Contiguous	N
Anas wyvilliana	Duck, Hawaiian (=koloa)	E	Bird	ARNG	1	Fort Ruger	HI	Onsite	N
,		E	Bird	ARNG	1	Ukumehame Wets	Н	Onsite	N
Aphelocoma coerulescens	Jay, Florida scrub	T	Bird	ARNG	4	MTC Camp Blanding	FL	Onsite	N
Apios priceana	Potato-bean, Price's	ī	Plant	SERO	4	Redstone Arsenal	AL	Onsite	N N
Arctomecon humilis	Bear-poppy, dwarf	E	Plant	ARNG	6	OMS 10B/St. George	UT	Onsite	 N
Asplenium fragile var.insulare	No common name	E	Plant	PARO	ı	Pohakuloa TA	HI	Onsite	N N
Astragalus jaegerianus	Milk-vetch, Lane Mountain	E	Plant	WEST	i	National Training Center and Fort Irwin	CA	Onsite	N N
Bonamia menziesii	No common name	E	Plant	PARO	· · ·	Makua Military Reservation	HI	Onsite	Y—C
Brachyramphus marmoratus marmoratus	Murrelet, marbled	Ţ	Bird	ARNG	<u>'</u> I	MTA Camp Rilea	OR	Contiguous	N N
	liancies, marbica	T .	Bird	USAR-70th RRC	<u>'</u>	LTA-AVN TNG Area (Weyerhaeuser)	WA	Onsite	Y—C
		T .	Bird	WEST	ı I	Fort Lewis	WA	Contiguous	N N
			I 54	11201	<u> </u>	Tore Lenis	****	55/11/64543	

SCIENTIFIC NAME	COMMON NAME	STATUS	CATEGORY	COMMAND	FWS REGION	INSTALLATION	STATE	ONSITE/ CONTIGUOUS	CRITICAL Habitat
Branchinecta lynchi	Fairy shrimp, vernal pool	Ţ	Crustacean	ARNG	ı	MTC-H Camp Roberts	CA	Onsite	N
		T	Crustacean	USAR-63rd RRC	I	BT Collins Enclave	CA	Onsite	N
		T	Crustacean	WEST	I	Fort Hunter Liggett	CA	Onsite	N
Branta sandvicensis	Goose, Hawaiian (=nene)	E	Bird	ARNG	I	Ukumehame Wets	HI	Onsite	N
		E	Bird	PARO	I	Pohakuloa TA	HI	Onsite	N
Brodiaea filifolia	Brodiaea, thread-leaved	T	Plant	USAR-63rd RRC	I	Tustin USARC	CA	Contiguous	N
Bufo californicus	Toad, arroyo	E	Amphibian	WEST	I	Fort Hunter Liggett	CA	Onsite	N
Buteo solitarius	Hawk, Hawaiian (='lo)	E	Bird	ARNG	I	Hilo (Keaukaha Military Reservation)	HI	Onsite	N
		E	Bird	PARO	I	Pohakuloa TA	HI	Onsite	N
Canis Iupus	Wolf, gray (MN only)***	Ţ	Mammal	ARNG	3	Camp Ripley	MN	Onsite	N
Canis Iupus	Wolf, gray***	E	Mammal	WEST	3	Fort McCoy	WI	Onsite	N
Caretta caretta	Sea turtle, loggerhead	T	Reptile	SERO	4	Military Ocean Terminal Sunny Point	NC	Contiguous	N
Castilleja levisecta	Paintbrush, golden	T	Plant	WEST	I	Fort Lewis	WA	Contiguous	N
Cenchrus agrimonioides	Kamanomano	E	Plant	PARO	ı	Makua Military Reservation	HI	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
Centrocercus urophasianus phaios	Grouse, gtr sage (Colum Basin DPS, WA)	С	Bird	WEST	ı	Yakima Training Center	WA	Onsite	N
Chamaesyce celastroides var. kaenana	Akoko	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Ү—С
Chamaesyce herbstii	Akoko	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Y—C
Chamaesyce rockii	Akoko	E	Plant	PARO	ı	Kawailoa TA	HI	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
Charadrius alexandrinus nivosus	Plover, western snowy	T	Bird	ARNG	I	MTA Camp Rilea	OR	Contiguous	N
		T	Bird	USAR-63rd RRC	I	LTAMoss Landing	CA	Onsite	N
Charadrius melodus	Plover, piping	T	Bird	ARNG	6	Camp Grafton	ND	Contiguous	N
		T	Bird	ARNG	5	Sea Girt	NJ	Onsite	N
		T	Bird	ARNG	6	TS Garrison	ND	Contiguous	N
		T	Bird	ARNG	6	TS Williston	ND	Contiguous	N
		T	Bird	WEST	6	Fort Riley	KS	Onsite	N
Chasiempis sandwichensis ibidis	Elepaio, Oahu	E	Bird	PARO	ı	Makua Military Reservation	HI	Onsite	Y—0
		E	Bird	PARO	ı	Schofield Barracks	HI	Onsite	Y—0
Chelonia mydas	Sea turtle, green	T	Reptile	SERO	4	Military Ocean Terminal Sunny Point	NC	Contiguous	N
Chlorogalum purpureum	Amole, purple	T	Plant	ARNG	ı	MTC-H Camp Roberts	CA	Onsite	N
		T	Plant	WEST	ı	Fort Hunter Liggett	CA	Onsite	N
Chorizanthe parryi fernandina	Spineflower, San Fernado Valley	С	Plant	USAR-63rd RRC	ı	Tustin USARC	CA	Onsite	N
Chorizanthe pungens var. pungens	Spineflower, Monterey	T	Plant	USAR-63rd RRC	ı	LTA - Moss Landing	CA	Onsite	N
		T	Plant	USAR-63rd RRC	ı	Marina USARC/OMS/AMSA 12 S-S	CA	Onsite	N
		T	Plant	WEST	I	Presidio of Monterey	CA	Onsite	Y—0
Christella boydiae	Boyd's maiden fern	С	Plant	PARO	ı	Kawailoa TA	HI	Onsite	N
Cicurina madla	Madla's cave meshweaver	E	Other Invertebrate	WEST	2	Fort Sam Houston	TX	Onsite	N
Cirsium fontinale var.obispoense	Thistle, Chorro Creek bog	E	Plant	ARNG	I	CTC Camp San Luis Obispo	CA	Onsite	N
Clemmys muhlenbergii	Turde, bog (Ent. U.S. expt, GA, NC, SC, TN, VA.)	Ţ	Reptile	NERO	5	Picatinny Arsenal	NJ	Contiguous	N
Coccyzus americanus	Cuckoo, yellow-billed (Western U.S.)	С	Bird	WEST	2	Fort Huachuca	AZ	Onsite	N
		C	Bird	WEST	2	White Sands Missile Range	NM	Onsite	N
Colubrina oppositifolia	Kauila	E	Plant	PARO	1	Makua Military Reservation	HI	Contiguous	Y—C
Coryphantha sneedii	Cactus, Sneed pincushion	E	Plant	WEST	2	Fort Bliss	TX	Onsite	N
Ctenitis squamigera	Pauoa	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
Cyanea acuminata	Haha	E	Plant	PARO	ı	Kawailoa TA	HI	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
Cyanea calycina	Haha	С	Plant	PARO	ı	Kawailoa TA	HI	Onsite	N

SCIENTIFIC NAME	COMMON NAME	STATUS	CATEGORY	COMMAND	FWS REGION	INSTALLATION	STATE	ONSITE/ CONTIGUOUS	CRITICAL Habitat
Cyanea calycina	Haha	С	Plant	PARO	ı	Schofield Barracks	НІ	Onsite	N
Cyanea crispa	Haha	E	Plant	PARO	I	Kawailoa TA	н	Onsite	N
Cyanea grimesiana ssp. obatae	Haha	E	Plant	PARO	I	Makua Military Reservation	н	Onsite	Ү—С
		E	Plant	PARO	I	Schofield Barracks	н	Onsite	N
Cyanea humboldtiana	Haha	E	Plant	PARO	I	Kawailoa TA	HI	Onsite	N
Cyanea koolauensis	Haha	E	Plant	PARO	П	Kahuku TA	HI	Onsite	N
		E	Plant	PARO	I	Kawailoa TA	НІ	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	НІ	Onsite	N
Cyanea longiflora	Haha	E	Plant	PARO	I	Makua Military Reservation	НІ	Onsite	Y—C
Cyanea st-johnii	Haha	E	Plant	PARO	ı	Kawailoa TA	Н	Onsite	N
, ,		E	Plant	PARO	ı	Schofield Barracks	HI	Onsite	N
Cyanea superba	Haha	E	Plant	PARO	1	Makua Military Reservation	н	Onsite	N
Cyperus trachysanthos	Pu`uka`a	E	Plant	ARNG	1	Fort Ruger	НІ	Onsite	Y—0
-11		E	Plant	PARO	 	Dillingham Military Reservation	HI	Contiguous	N
Cyrtandra dentata	Ha`iwale	E	Plant	PARO	i	Kawailoa TA	HI	Onsite	N
Cyrtandra dentata	IIa Iwaic	E	Plant	PARO	i	Makua Military Reservation	HI	Onsite	Y—C
Cyrtandra subumbellata	Ha`iwale	E	Plant	PARO	- 	Schofield Barracks	HI	Onsite	N
Cyrtandra viridiflora	Ha`iwale	E	Plant	PARO	'	Kawailoa TA	HI	Onsite	N
Cyrtanura viriumora	na iwale	E	Plant	PARO		Schofield Barracks	HI	Onsite	N N
Deliana anharadasa	OL.								
Delissea subcordata	Oha	E	Plant	PARO	!	Makua Military Reservation	HI	Onsite	Y—C
		E	Plant	PARO	<u> </u>	Schofield Barracks	HI	Onsite	N
Delphinapterus leucas	Whale, beluga	PE	Mammal	PARO	7	Fort Richardson	AK	Onsite	N
Dendroica chrysoparia	Warbler, golden-cheeked	E	Bird	ARNG	2	Camp Mabry	TX	Onsite	N
		E	Bird	WEST	2	Fort Hood	TX	Onsite	N
		E	Bird	WEST	2	Fort Sam Houston	TX	Onsite	N
Dendroica kirtlandii	Warbler, Kirtland's	E	Bird	ARNG	3	MTC-H Camp Grayling	MI	Onsite	N
Dermochelys coriacea	Sea turtle, leatherback	E	Reptile	SERO	4	Military Ocean Terminal Sunny Point	NC	Contiguous	N
Desmocerus californicus dimorphus	Beetle, valley elderberry longhorn	T	Insect	AMC	I	Riverbank AAP	CA	Contiguous	N
Diellia falcata	No common name	E	Plant	PARO	l I	Makua Military Reservation	HI	Onsite	Y—C
		E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
Dipodomys ingens	Kangaroo rat, giant	E	Mammal	USAR-63rd RRC	I	Leymel Hall USARC	CA	Contiguous	N
Dipodomys merriami parvus	Kangaroo rat, San Bernardino Merriam's	E	Mammal	USAR-63rd RRC	I	March USARC/AMSA 19(G)	CA	Contiguous	N
Dipodomys stephensi (incl. D. cascus)	Kangaroo rat, Stephens'	E	Mammal	USAR-63rd RRC	1	March USARC/AMSA 19(G)	CA	Contiguous	N
Drymarchon corais couperi	Snake, eastern indigo	T	Reptile	ARNG	4	MTC Camp Blanding	FL	Onsite	N
· ·		Т	Reptile	SERO	4	Fort Stewart	GA	Onsite	N
Dubautia herbstobatae	Na`ena`e	E	Plant	PARO	ı	Makua Military Reservation	HI	Onsite	У—С
Echinacea laevigata	Coneflower, smooth	E	Plant	ARNG	4	Leesburg TS	sc	Onsite	N
ů	<u> </u>	E	Plant	SERO	4	Fort Jackson	sc	Onsite	N
Echinocereus fendleri	Cactus, Kuenzler hedgehog	E	Plant	WEST	2	Fort Bliss	TX	Onsite	N
Empidonax traillii extimus	Flycatcher, southwestern willow	E	Bird	USAR-63rd RRC	<u> </u>	Tustin USARC	CA	Contiguous	N
Emploonax trainii examas	Tracticity, southwestern willow	E	Bird	WEST	2	Fort Huachuca	AZ	Contiguous	N N
		E	Bird	WEST	2	White Sands Missile Range	NM	Contiguous	N N
Enhydra lutris nereis	Otter, southern sea	Ī	Mammal	USAR-63rd RRC	1	LTA—Moss Landing	CA	Onsite	N
Epicrates inornatus	Boa. Puerto Rican	E	Reptile	SERO	4	Fort Buchanan	PR	Onsite	N N
<u> </u>	,		· ·		1 1	Fort Lewis			N N
Eremophila alpestris strigata	Lark, streaked horned	С	Bird	WEST	!		WA	Onsite	
Erigeron basalticus	Daisy, basalt	С	Plant	WEST	1	Yakima Training Center	WA	Onsite	N
Erigeron lemmonii	Fleabane, Lemmon	C	Plant	WEST	2	Fort Huachuca	AZ	Onsite	N N
Erigeron parishii	Daisy, Parish's	T	Plant	USAR-63rd RRC		March USARC/AMSA 19(G)	CA	Contiguous	N
Etheostoma cragini	Darter, Arkansas	С	Fish	WEST	6	Fort Carson	CO	Onsite	N
Eugenia koolauensis	Nioi	E	Plant	PARO	'	Kahuku TA	HI	Onsite	N

SCIENTIFIC NAME	COMMON NAME	SUTATUS	CATEGORY	COMMAND	FWS REGION	INSTALLATION	STATE	ONSITE/ CONTIGUOUS	CRITICAL Habitat
Eumetopias jubatus	Sea-lion, Steller (=northern)	T	Mammal	ARNG	ı	MTA Camp Rilea	OR	Contiguous	N
Euphorbia haeleeleana	Akoko	E	Plant	PARO	ı	Makua Military Reservation	HI	Onsite	Y—С
Euphydryas editha taylori	Butterfly, Whulge checkerspot	C	Insect	WEST	ı	Fort Lewis	WA	Onsite	N
Falco femoralis septentrionalis	Falcon, northern Aplomado	E	Bird	WEST	2	Fort Bliss	TX	Onsite	N
		PT	Bird	WEST	2	White Sands Missile Range	NM	Onsite	N
Flueggea neowawraea	Mehamehame	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Y—C
		E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
Fulica americana alai	Coot, Hawaiian (=`alae-ke`oke`o)	E	Bird	ARNG	ı	Fort Ruger	HI	Onsite	N
		E	Bird	ARNG	I	Ukumehame Wets	HI	Onsite	N
Gallinula chloropus sandvicensis	Moorhen, Hawaiian Common	E	Bird	ARNG	I	Fort Ruger	HI	Onsite	N
		E	Bird	ARNG	ı	Ukumehame Wets	HI	Onsite	N
Gardenia mannii	Nanu	E	Plant	PARO	ı	Kahuku TA	HI	Onsite	N
		E	Plant	PARO	1	Kawailoa TA	HI	Onsite	N
		E	Plant	PARO	ı	Schofield Barracks	HI	Onsite	N
Gilia tenuiflora ssp.arenaria	Gilia, Monterey	E	Plant	USAR-63rd RRC	ı	LTAMoss Landing	CA	Onsite	N
'	' '	E	Plant	USAR-63rd RRC	ı	Marina USARC/OMS/AMSA 12 S-S	CA	Onsite	N
Gopherus agassizii	Tortoise, desert	T	Reptile	ARNG	1	Clark County Complex	NV	Onsite	N N
· r · · · • • · ·		T(SA)	Reptile	ARNG	2	Florence Military Reservation	AZ	Onsite	N
		Ī	Reptile	USAR-63rd RRC	i i	Victorville USARC/ASF	CA	Contiguous	N N
		T	Reptile	WEST	i	National Training Center and Fort Irwin	CA	Onsite	Y—0
Gopherus polyphemus	Tortoise, gopher	T	Reptile	ARNG	4	MTA Camp Shelby	MS	Onsite	N N
Gouania vitifolia	No common name	E	Plant	PARO	i	Makua Military Reservation	HI	Onsite	Y—C
Grus americana	Crane, whooping	E	Bird	WEST	2	Fort Hood	TX	Onsite	N N
Gymnogyps californianus	Condor, California	E	Bird	ARNG	1	CTC Camp San Luis Obispo	CA	Onsite	N N
dynniogyps camormanus	Condor, Camorina	E	Bird	ARNG	- : -	MTC-H Camp Roberts	CA	Contiguous	N N
		E	Bird	WEST	<u> </u>	Fort Hunter Liggett	CA	Onsite	N N
Haliaaatua lawaaankalua	Coalo hold*	T	Bird	AMC	6				N N
Haliaeetus leucocephalus	Eagle, bald*	ī	Bird	AMC	0	Deseret Chemical Depot Hawthorne AD	UT NV	Contiguous	N N
				AMC	1	Holston AAP		Onsite	N N
		Ţ	Bird		4		TN	Onsite	
		Ţ	Bird	AMC	3	Newport Chemical Depot	IN	Onsite	N N
		T	Bird	ARNG	3	(Clinton) Truman Reservoir T.S.	M0	Onsite	N
		Ī	Bird	ARNG	6	Camp Ashland	NE 	Onsite	N
		T	Bird	ARNG	3	Camp Atterbury	IN	Onsite	N
		T	Bird	ARNG	3	Camp Crowder	MO	Contiguous	N
		T	Bird	ARNG	4	Camp Joseph T. Robinson	AR	Contiguous	N
		T	Bird	ARNG	1	Camp Murray	WA	Onsite	N
		T	Bird	ARNG	2	Camp Navajo	AZ	Onsite	N
		T	Bird	ARNG	3	Camp Perry	OH	Onsite	N
		T	Bird	ARNG	3	Camp Ripley	MN	Onsite	N
		Ţ	Bird	ARNG	5	Camp Smith CSMS A	NY	Contiguous	N
		Ţ	Bird	ARNG	I	Corvallis/Camp Adair	OR	Contiguous	N
		T	Bird	ARNG	4	Fort Chaffee Maneuver Training Center	AR	Onsite	N
		T	Bird	ARNG	5	Fort Pickett ARNG MTC	VA	Onsite	N
		T	Bird	ARNG	3	HQ STARC—MO	MO	Onsite	N
		T	Bird	ARNG	3	Macon TS	MO	Onsite	N
		T	Bird	ARNG	I	MTA Camp Rilea	OR	Onsite	N
		T	Bird	ARNG	4	MTC Camp Blanding	FL	Onsite	N
		T	Bird	ARNG	3	MTC-H Camp Grayling	MI	Onsite	N
		T	Bird	ARNG	6	MTC-H Camp Guernsey	WY	Onsite	N
		T	Bird	ARNG	ı	MTC-H Camp Roberts	CA	Onsite	N

			CATEGORY	COMMAND	FWS REGION	INSTALLATION	STATE	ONSITE/ CONTIGUOUS	CRITICAL Habitat
Haliaeetus leucocephalus	Eagle, bald*	T	Bird	NERO	5	Aberdeen Proving Ground	MD	Onsite	N
		T	Bird	NERO	5	Fort AP Hill	VA	Onsite	N
		T	Bird	NERO	5	Fort Belvoir	VA	Onsite	N
		T	Bird	NERO	5	Fort Dix	NJ	Onsite	N
		T	Bird	NERO	5	Fort Eustis	VA	Onsite	N
		T	Bird	NERO	5	Fort Lee	VA	Contiguous	N
		T	Bird	NERO	5	U.S. Army Research Laboratory Adelphi	MD	Onsite	N
		T	Bird	NERO	5	West Point Military Reservation	NY	Onsite	N
		T	Bird	SERO	4	Fort Benning	GA	Onsite	N
		T	Bird	SERO	4	Fort Gordon	GA	Contiguous	N
		T	Bird	SERO	4	Fort Knox	КҮ	Onsite	N
		T	Bird	SERO	4	Fort Rucker	AL	Contiguous	N
		T	Bird	SERO	4	Fort Stewart	GA	Onsite	N
		T	Bird	SERO	4	Military Ocean Terminal Sunny Point	NC	Onsite	N
		T	Bird	SERO	4	Redstone Arsenal	AL	Onsite	N
		T	Bird	USAR-70th RRC	I	Fort Lawton USAR Complex	WA	Contiguous	N
		T	Bird	USAR-70th RRC	- I	LTA-AVN TNG Area (Weyerhaeuser)	WA	Contiguous	N
		T	Bird	WEST	6	Dugway Proving Ground	UT	Contiguous	N
		T	Bird	WEST	2	Fort Bliss	TX	Onsite	N
		T	Bird	WEST	2	Fort Hood	TX	Onsite	N
		T	Bird	WEST	I	Fort Hunter Liggett	CA	Onsite	N
		T	Bird	WEST	6	Fort Leavenworth	KS	Onsite	N
		T	Bird	WEST	3	Fort Leonard Wood	MO	Onsite	N
		T	Bird	WEST	ı	Fort Lewis	WA	Onsite	N
		T	Bird	WEST	3	Fort McCoy	WI	Onsite	N
		T	Bird	WEST	6	Fort Riley	KS	Onsite	N
		T	Bird	WEST	6	Pinon Canyon	СО	Onsite	N
		T	Bird	WEST	3	Rock Island Arsenal	IL	Onsite	N
		T	Bird	WEST	2	White Sands Missile Range	NM	Onsite	N
		T	Bird	WEST	1	Yakima Training Center	WA	Onsite	N
Haplostachys haplostachya	Honohono	E	Plant	PARO	1	Pohakuloa TA	HI	Onsite	N
Hedeoma todsenii	Pennyroyal, Todsen's	E	Plant	WEST	2	White Sands Missile Range	NM	Onsite	Y—0
Hedyotis coriacea	Kio`ele	E	Plant	PARO	1	Pohakuloa TA	НІ	Onsite	N
Hedyotis degeneri	No common name	E	Plant	PARO	1	Makua Military Reservation	НІ	Onsite	У—С
Hedyotis fluviatilis	Kampua`a	С	Plant	PARO	1	Kawailoa TA	НІ	Onsite	N
Hedyotis parvula	No common name	E	Plant	PARO	1	Makua Military Reservation	НІ	Onsite	У—С
Helminthoglypta walkeriana	Snail, Morro shoulderband	E	Snail	ARNG	1	CTC Camp San Luis Obispo	CA	Contiguous	N
Helonias bullata	Pink, swamp	T	Plant	NERO	5	Fort AP Hill	VA	Onsite	N
Hesperomannia arborescens	No common name	E	Plant	PARO	1	Kawailoa TA	НІ	Onsite	N
		E	Plant	PARO	1	Schofield Barracks	НІ	Onsite	N
Hesperomannia arbuscula	No common name	E	Plant	PARO	ı	Makua Military Reservation	HI	Onsite	Y—C
Hibiscus brackenridgei	Ma`o hau hele	E	Plant	PARO	ı	Dillingham Military Reservation	HI	Contiguous	N
8		E	Plant	PARO	i	Makua Military Reservation	HI	Onsite	N N
Himantopus mexicanus knudseni	Stilt, Hawaiian (=ae`o)	E	Bird	ARNG	i	Kekaha Wets	HI	Onsite	N N
		E	Bird	ARNG	i	Ukumehame Wets	HI	Onsite	N N
Holocarpha macradenia	Tarplant, Santa Cruz	T	Plant	ARNG	i	Santa Cruz Armory	CA	Onsite	Y—0
Howellia aquatilis	Howellia, water	T	Plant	WEST	ı	Fort Lewis	WA	Onsite	N N
Hypomesus transpacificus	Smelt, delta	T	Fish	USAR-63rd RRC	1	AMSA 13 (M), Mare Isle	CA	Contiguous	N N
Icaricia icarioides fenderi	Butterfly, Fender's blue	T	Insect	ARNG	<u>'</u>	Corvallis/Camp Adair	OR	Contiguous	N
Isodendrion hosakae	Aupaka	E	Plant	PARO	ı	Pohakuloa TA	HI	Onsite	N

	SCIENTIFIC NAME	COMMON NAME	STATUS	CATEGORY	COMMAND	FWS REGION	INSTALLATION	STATE	ONSITE/ CONTIGUOUS	CRITICAL Habitat
Debedreien pyriblism Debedreien pyriblism Debedreien pyriblism Debedreien louiseness Quilverse_Louisinns Pigenai, rand wherled T Pitatt AMG 4 Mil Grap Busby T Ontor N N	Isodendrion longifolium	Aupaka	T	Plant	PARO	I	Makua Military Reservation	HI	Contiguous	Y—С
			T	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
	Isodendrion pyrifolium	Noho, Kula wahine	E	Plant	PARO	I	Makua Military Reservation	HI	Contiguous	У—С
Part	Isoetes Iouisianensis	Quillwort, Louisiana	E	Plant	ARNG	4	MTA Camp Shelby	MS	Onsite	N
Part	Isotria medeoloides	Pogonia, small whorled	T	Plant	ARNG	5	Auburn TS/OMS 2	ME	Onsite	N
Joine Joine John Joh			T	Plant	ARNG	5	NHNG Training Center	NH	Onsite	N
Demoiles ascendens acendens Ohe			T	Plant	NERO	5	Fort AP Hill	VA	Onsite	N
Rortsholels degeneri			T	Plant	NERO	5	Fort Belvoir	VA	Onsite	N
Marchaella degeneri	Joinvillea ascendens ascendens	Ohe	С	Plant	PARO	I	Kawailoa TA	HI	Onsite	N
Marchaella degeneri			С	Plant	PARO	I	Schofield Barracks	н	Onsite	N
Labordia cymardrae	Korthalsella degeneri	Hulumoa	С		PARO	I	Makua Military Reservation	НІ	Onsite	N
Lasieuus cinereus sentotas Bat, Harasian hoary E Mammal PABO 1 Pobladato TA HI Onite N		Kamakahala	E			1	,			N
Lepidium arboscula	<u> </u>		E			i				N N
Lepidium arbocola			F			ı				N N
Lapidium Papiliferum	Lenidium arhuscula	Апашпаш	_			ı				
Lepidom Papiliferum Sickspot peppergras**** PE Plant ARNG 1 Orchard Range TS Boice ID Onsite N	Echidiani arbuscula	Allaullau	_			·	•			
Leptochechy kempii	Lanidium Panillifarum	Clicksnot nannargrass****	_			·				
Leptonycteris curassae yerhabuentee Bat, lesser long-nosed E Mammal WEST 2 Fort Haachuca	· · · · · · · · · · · · · · · · · · ·					· ·	-			
University schafferiana sp. recurva				•		·	, ,		-	
Lipochaeta tenuifolia Nebe E Plant PARO I Malua Military Reservation HI Onsite Y.—C	· · · · · · · · · · · · · · · · · · ·									
Lipochaeta venosa No common name E Plant PARO 1 Pobaludoa TA HI Onsite N		,								
Lobelia gaudichaudii spi. koolauensis No common name E Plant PARO 1 Schofield Barracks HI Onsite N	·		_			·	,			
Lobelia onlinavensis	·		_			·				
Plant PARO 1 Schofield Barracks HI Onsite N			_			!				
Lobelia oahuensis No common name E Plant PARO 1 Kavailoa TA HI Onsite N	Lobelia niihauensis	Haha	_			l	,			
E Plant PARO I Makua Military Reservation HI Onsite N E Plant PARO I Schofield Barracks HI Onsite N Lozioides bailleui Palia (honeycreeper) E Bird PARO I PARO I Pohakuloa TA HI Contiguous Y—O Lupinus sulphureus kincaidis Lupine, Kincaidi's E Plant ARNG I Covrallis/Camp Adair OR Onsite N Lycaeides melissa samuelis Butterfly, Karner blue E Insect ARNG S State Military Reservation NH Onsite N Lycaeides melissa samuelis Dosestrife, rough-leaved E Insect WEST 3 Fort HcCoy WI Onsite N Lysimachia asperulaefolia Losestrife, rough-leaved E Plant ARNG 4 Leesburg TS SC Onsite N E Plant SERO 4 Fort Bragg NC Onsite N E Plant SERO 4 Fort Bragg NC Onsite N E Plant SERO 4 Fort Bragg NC Onsite N Manduca blacburni Moth, Blacburn's sphinx E Insect ARNG I Kanaio Wets HI Onsite N Marsicus pennatiformis No common name E Plant ARNG I Makua Military Reservation HI Contiguous Y—O Marsicus pennatiformis No common name E Plant ARNG I Makua Military Reservation HI Contiguous Y—C Marsicus pennatiformis Button, Moh's Barbara E Plant ARNG I Makua Military Reservation HI Contiguous N Meda fulgida Spikedace T Fish WEST 2 Fort Huachuca AZ Contiguous N Medalagrion ingrolineatum Damselfly, crimson Hawaiian T Insect PARO I Kawaiiba TA HI Onsite N Megalagrion migrolineatum Damselfly, crimson Hawaiian C Insect PARO I Kawaiiba TA HI Onsite N Medicope hiakae Alani C Plant PARO I Kawaiiba TA HI Onsite N Melicope hiakae Alani C Plant PARO I Kawaiiba TA HI Onsite N Melicope paldida Alani E Plant PARO I Kawaiiba TA HI Onsite N Melicope poldida Alani E Plant PARO I Kawaiiba TA HI Onsite N Melicope poldida Alani E Plant PARO I Kawaiiba TA HI Onsite N Melicope paldida Alani E Plant PARO I Kawaiiba TA HI Onsite N Melicope paldida Alani E Plant PARO I Kawaiiba TA HI Onsite N Melicope paldida Alani E Plant PARO I Kawaiiba TA HI Onsite N Melicope paldida Alani E Plant PARO I Kawaiiba TA HI Onsite N Melicope paldida Alani E Plant USAR-SARC I Leymel Hall USARC CA Contiguous N										• • • • • • • • • • • • • • • • • • • •
E Plant PARO I Schofield Barracks HI Onsite N	Lobelia oahuensis	No common name				·				
Loxioides bailleui Palia (honeycreeper) E Bird PARO I Pohakuloa TA HI Contiguous Y—O						·	,			• • • • • • • • • • • • • • • • • • • •
Lupinus sulphureus kincaidii Lupine, Kincaidi's E Plant ARNG I Corvallis/Camp Adair OR Onsite N						I				
Lycaeides melissa samuelis Lysimachia asperulaefolia Lysimachia asperulaefolia Lysimachia asperulaefolia Loosestrife, rough-leaved E Plant ARNG 4 Leesburg TS SC Onsite N E Plant SERO 4 Fort Bragg NC Onsite N E Plant SERO 4 Military Reservation SC Onsite N E Plant SERO 4 Military Ocean Terminal Sunny Point NC Onsite N Manduca blackburni Moth, Blackburn's sphinx E Insect ARNG I Kanaio Wets HI Onsite Y—O Mariscus pennatiformis No common name E Plant PARO I Makua Military Reservation HI Contiguous Y—C Margalagrion leptodemus Damselfly, crimson Hawaiian T Insect PARO I Schofield Barracks HI Onsite N Megalagrion ranthomelas Damselfly, crimson Hawaiian C Insect PARO I Schofield Barracks HI Onsite N Megalagrion ranthomelas Damselfly, crimson Hawaiian C Insect PARO I Schofield Barracks HI Onsite N Megalagrion ranthomelas Damselfly, crimson Hawaiian C Insect PARO I Schofield Barracks HI Onsite N Megalagrion ranthomelas Damselfly, crimson Hawaiian C Insect PARO I Schofield Barracks HI Onsite N Megalagrion ranthomelas Damselfly, crimson Hawaiian C Insect PARO I Schofield Barracks HI Onsite N Megalagrion ranthomelas Damselfly, crimson Hawaiian C Insect PARO I Schofield Barracks HI Onsite N Megalagrion ranthomelas Damselfly, crimson Hawaiian C Insect PARO I Schofield Barracks HI Onsite N Megalagrion ranthomelas Alani E Plant PARO I Schofield Barracks HI Onsite N Melicope hilickae Alani E Plant PARO I Scawailoa TA HI Onsite N Melicope pallida Alani E Plant PARO I Makua Military Reservation HI Contiguous Y—C Melicope pallida Alani E Plant PARO I Makua Military Reservation HI Contiguous Y—C Melicope pallida Alani E Plant PARO I Makua Military Reservation HI Contiguous Y—C Melicope pallida Alani E Plant PARO I Makua Military Reservation HI Contiguous Y—C Melicope pallida Alani E Plant PARO I Makua Military Reservation HI Contiguous Y—C Melicope pallida Alani E Plant PARO I Makua Military Reservation HI Contiguous Y—C Melicope pallida Alani E Plant PARO I Makua Military Reservation HI Contiguous Y—C Melicope pallida Alani E Plant				Bird		I			Contiguous	
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E Bird SERO 4 Fort Benning GA Onsite N	• •						·			
		,								
			E	Bird	SERO	4	Fort Gordon	GA	Contiguous	N N

SCIENTIFIC NAME	COMMON NAME	SUTATS	CATEGORY	COMMAND	FWS REGION	INSTALLATION	STATE	ONSITE/ CONTIGUOUS	CRITICAL Habitat
Mycteria americana	Stork, wood	E	Bird	SERO	4	Fort Stewart	GA	Onsite	N
Myotis grisescens	Bat, gray	E	Mammal	AMC	4	Holston AAP	TN	Onsite	N
		E	Mammal	ARNG	4	Fort McClellan ARNG	AL	Onsite	N
		E	Mammal	SERO	4	Fort Campbell	KY	Onsite	N
		E	Mammal	SERO	4	Fort Knox	KY	Onsite	N
		E	Mammal	SERO	4	Redstone Arsenal	AL	Onsite	N
		E	Mammal	WEST	3	Fort Leonard Wood	M0	Onsite	N
Myotis sodalis	Bat, Indiana	E	Mammal	AMC	4	Blue Grass AD	KY	Onsite	N N
		E	Mammal	AMC	3	Iowa AAP	IA 	Onsite	N N
		E	Mammal	AMC	3	Newport Chemical Depot	IN	Onsite	N
		E E	Mammal	ARNG ARNG	3	Camp Atterbury Macon TS	IN MO	Onsite	N N
		E	Mammal Mammal	NERO	5	Fort Drum	NY	Onsite Onsite	N N
		E	Mammal	NERO	5	Picatinny Arsenal		Onsite	N N
		E	Mammal	SERO	4	Fort Campbell	NJ KY	Onsite	N N
		E	Mammal	SERO	4	Fort Knox	KY	Onsite	N
		E	Mammal	SERO	4	Redstone Arsenal	AL	Contiguous	N
		E	Mammal	USAR-88th RRC	3	Twinsburg USARC/AMSA #123	OH	Onsite	N N
		E	Mammal	WEST	3	Fort Leonard Wood	MO	Onsite	N
Myrsine juddii	Kolea	E	Plant	PARO	1	Kawailoa TA	HI	Onsite	N N
Neonympha mitchellii francisci	Butterfly, Saint Francis' satyr	E	Insect	SERO	4	Fort Bragg	NC	Onsite	N N
Neraudia angulata	Ma'aloa	E	Plant	PARO	Ī	Makua Military Reservation	HI	Onsite	Y—C
•		E	Plant	PARO	ı	Schofield Barracks	НІ	Onsite	N
Neraudia Ovata	Maaloa	E	Plant	PARO	ı	Pohakuloa TA	HI	Onsite	N
Nicrophorus americanus	Beetle, American burying	E	Insect	AMC	2	McAlester AAP	OK	Onsite	N
		E	Insect	ARNG	2	Camp Gruber	OK	Onsite	N
		E	Insect	ARNG	2	Camp Maxey	TX	Onsite	N
		E	Insect	ARNG	4	Fort Chaffee Maneuver Training Center	AR	Onsite	N
Nothocestrum latifolium	Aiea	С	Plant	PARO	I	Makua Military Reservation	HI	Onsite	N
Nototrichium humile	Kulu`i	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Y—С
Notropis topeka	Shiner, Topeka	E	Fish	WEST	6	Fort Riley	KS	Onsite	N
Oncorhynchus clarki henshawi	Trout, Lahontan cutthroat	E	Fish	AMC	I	Hawthorne AD	NV	Contiguous	N
Oncorhynchus mykiss	Steelhead (Southern California)	E	Fish	ARNG	I	CTC Camp San Luis Obispo	CA	Onsite	N
	Steelhead (Southern California)	E	Fish	ARNG	I	MTC-H Camp Roberts	CA	Onsite	N
	Steelhead (Central California Coastal)	T	Fish	USAR-63rd RRC	I	AMSA 13 (M), Mare Isle	CA	Contiguous	N
	Steelhead (Central Valley California)	T	Fish	USAR-63rd RRC	I	AMSA 13 (M), Mare Isle	CA	Contiguous	N
	Steelhead (Lower Columbia River)	T	Fish	WEST	I	Fort Lewis	WA	Onsite	N
	Steelhead (Middle Columbia River)	T	Fish	WEST	!	Yakima Training Center	WA	Onsite	N
	Steelhead (Upper Columbia River)	E	Fish	WEST	<u> </u>	Yakima Training Center	WA	Onsite	N
Oncorhynchus tshawytscha	Salmon, chinook (CA, Sac. River- winter run)	T	Fish	USAR-63rd RRC		AMSA 13 (M), Mare Isle	CA	Onsite	N
	Salmon, chinook (T=WA) ntrl pop. from rivers & streams flowing into Puget Sound)	Ţ	Fish	USAR-70th RRC	I	Pier 23 USARC	WA	Onsite	N
		T	Fish	WEST	I	Fort Lewis	WA	Onsite	N
	Salmon, chinook (T=WA) naturally spawned populations in the Columbia R. tributaries upstream of Rock Island Dam & downstream of Chief Joseph Dam)	T	Fish	WEST	I	Yakima Training Center	WA	Onsite	N
Orcinus orca	Whale, southern resident killer	E	Mammal	USAR-70th RRC	I	Pier 23 USARC	WA	Contiguous	N
		E	Mammal	WEST	I	Fort Lewis	WA	Contiguous	N
Ottoschulzia rhodoxylon	Palo de rosa	E	Plant	SERO	4	Fort Buchanan	PR	Onsite	N
Palaemonias alabamae	Shrimp, Alabama cave	E	Crustacean	SERO	4	Redstone Arsenal	AL	Onsite	N
Panicum niihauense	Lau `ehu	E	Plant	ARNG	ı	Kekaha Wets	HI	Onsite	Y—0
Panthera onca	Jaguar	E	Mammal	WEST	2	White Sands Missile Range	NM	Onsite	N

SCIENTIFIC NAME	COMMON NAME	STATUS	CATEGORY	COMMAND	FWS REGION	INSTALLATION	STATE	ONSITE/ CONTIGUOUS	CRITICAL Habitat
Pelecanus occidentalis	Pelican, brown	E	Bird	ARNG	ı	MTA Camp Rilea	OR	Contiguous	N
	(Entire pop, except U.S. Atl Cst, FL, AL)	E	Bird	USAR-63rd RRC	ı	LTA-Moss Landing	CA	Onsite	N
		E	Bird	USAR-63rd RRC	I	AMSA 13 (M), Mare Isle	CA	Onsite	N
		E	Bird	WEST	2	White Sands Missile Range	NM	Onsite	N
Percina rex	Logperch, Roanoke	E	Fish	ARNG	5	Fort Pickett ARNG MTC	VA	Onsite	N
Perognathus longimembris pacificus	Mouse, Pacific pocket	E	Mammal	USAR-63rd RRC	ı	March USARC/AMSA 19(G)	CA	Contiguous	N
Peucedanum sandwicense	Makou	T	Plant	PARO	ı	Makua Military Reservation	НІ	Onsite	N
Phlegmariurus nutans	No common name	E	Plant	PARO	ı	Kawailoa TA	НІ	Onsite	N
· ·		E	Plant	PARO	ı	Schofield Barracks	HI	Onsite	N
Phyllostegia hirsuta	No common name	E	Plant	PARO	ı	Kawailoa TA	HI	Onsite	N
, ,		E	Plant	PARO	ı	Schofield Barracks	HI	Onsite	N
Phyllostegia kaalaensis	No common name	E	Plant	PARO	ı	Makua Military Reservation	НІ	Onsite	Y—C
, 0		E	Plant	PARO	ı	Schofield Barracks	НІ	Onsite	N
Phyllostegia parviflora	No common name	E	Plant	PARO	ı	Kawailoa TA	НІ	Onsite	N
Picoides borealis	Woodpecker, red-cockaded	E	Bird	ARNG	4	Leesburg TS	sc	Onsite	N
	,	E	Bird	ARNG	4	MTA Camp Shelby	MS	Contiguous	N N
		E	Bird	ARNG	4	MTC Camp Blanding	FL	Onsite	N N
		E	Bird	ARNG	4	SMR Camp Beauregard	LA	Contiguous	N N
		E	Bird	SERO	4	Fort Benning	GA	Onsite	N N
		E	Bird	SERO	4	Fort Bragg	NC NC	Onsite	N N
		E	Bird	SERO	4	Fort Gordon	GA	Onsite	N
		E	Bird	SERO	4	Fort Jackson	SC	Onsite	N
		E	Bird	SERO	4	Fort Polk	LA	Onsite	N N
				SERO					N N
		E	Bird		4	Fort Stewart	GA	Onsite	
D: . W I	V 1 1	E	Bird	SERO	4	Military Ocean Terminal Sunny Point	NC	Onsite	N N
Piperia Yadonii	Yadon's piperia	E	Plant	WEST	<u> </u>	Presidio of Monterey	CA	Onsite	N
Pituophis melanoleucus lodingi	Snake, black pine	С	Reptile	ARNG	4	MTA Camp Shelby	MS	Onsite	N
Pituophis ruthveni	Pine snake, Louisiana	C	Reptile	SERO	4	Fort Polk	LA 	Onsite	N
Plantago princeps	Kuahiwi laukahi	E	Plant	PARO	!	Makua Military Reservation	HI	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
Platydesma cornuta cornuta	No common name	С	Plant	PARO	I	Kawailoa TA	HI	Onsite	N
		С	Plant	PARO	l l	Makua Military Reservation	HI	Onsite	N
Platydesma cornuta descurrens	No common name	С	Plant	PARO	l l	Schofield Barracks	HI	Onsite	N
Polites mardon	Skipper, Mardon	С	Insect	WEST	l l	Fort Lewis	WA	Onsite	N
Polysticta stellari	Eider, Stellar's	T	Bird	ARNG	7	Kwigillingok Scout Armory	AK	Contiguous	N
		T	Bird	ARNG	7	NG Chevak Armory	AK	Contiguous	N
Portulaca sclerocarpa	Po`e	E	Plant	PARO	I	Pohakuloa TA	HI	Onsite	N
Pritchardia kaalae	Lo`ulu	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	N
Pseudobahia bahiifolia	Sunburst, Hartweg's golden	E	Plant	USAR-63rd RRC	l I	63rd RRC	CA	Contiguous	N
Pseudobahia peirsonii	Sunburst, San Joaquin adobe	T	Plant	USAR-63rd RRC	I	Leymel Hall USARC	CA	Contiguous	N
Pseudocopaeodes eunus obscurus	Skipper, Carson wandering	E	Insect	AMC	I	Sierra AD	CA	Contiguous	N
Pteralyxia macrocarpa	Kaulu	С	Plant	PARO	I	Kahuku TA	HI	Onsite	N
		С	Plant	PARO	I	Kawailoa TA	HI	Onsite	N
		С	Plant	PARO	I	Makua Military Reservation	HI	Onsite	N
		С	Plant	PARO	ı	Schofield Barracks	HI	Onsite	N
Pteris lidgatei	No common name	E	Plant	PARO	ı	Kawailoa TA	HI	Onsite	N
·		E	Plant	PARO	ı	Schofield Barracks	н	Onsite	N
Ptilimnium nodosum	Harperella	E	Plant	ARNG	5	LIL Aaron Strauss	MD	Onsite	N
Puma concolor coryi	Panther, Florida	E	Mammal	ARNG	4	MTC Camp Blanding	FL	Onsite	N
Pyrgulopsis thompsoni	Springsnail, Huachuca	C	Snail	WEST	2	Fort Huachuca	AZ	Onsite	N
Rana aurora draytonii	Frog, California red-legged	T	Amphibian	ARNG	<u> </u>	CTC Camp San Luis Obispo	CA	Onsite	N N
		T	Amphibian	USAR-63rd RRC	· i	PFC L.T. Baccigleiri Hall AFRC	CA	Contiguous	N
		T	Amphibian	WEST	<u> </u>	Fort Hunter Liggett	CA	Onsite	N
		T	Amphibian	WEST	<u>'</u>	U.S. Army CSTC And Camp Parks	CA	Onsite	N
Rhadine exilis	Ground beetle	E	Insect	WEST	2	Fort Sam Houston	TX	Onsite	N N
Rhadine infernalis	Ground beetle	E	Insect	WEST	2	Fort Sam Houston	TX	Onsite	N N
Rhododendron chapmanii	Rhododendron, Chapman	E	Plant	ARNG	4	MTC Camp Blanding	FL	Onsite	N N
кночоченигон спартали	Kilououelluroli, Chapman	Ľ	FIAIIL	ANNU	_ "	THE Camp bianding	l Lr	Olisite	N

SCIENTIFIC NAME	COMMON NAME	STATUS	CATEGORY	COMMAND	FWS REGION	INSTALLATION	STATE	ONSITE/ CONTIGUOUS	CRITICA Habita
Rhus michauxii	Sumac, Michaux's	E	Plant	ARNG	5	Fort Pickett ARNG MTC	VA	Onsite	N
		E	Plant	SERO	4	Fort Bragg	NC	Onsite	N
Salvelinus confluentus	Trout, bull	T	Fish	USAR-70th RRC	I	Pier 23 USARC	WA	Onsite	N
		T	Fish	WEST	ı	Fort Lewis	WA	Onsite	N
		T	Fish	WEST	I	Yakima Training Center	WA	Contiguous	N
Sanicula mariversa	No common name	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Y—
Sanicula purpurea	No common name	E	Plant	PARO	I	Kawailoa TA	HI	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
Scaphirhynchus albus	Sturgeon, pallid	E	Fish	WEST	6	Fort Leavenworth	KS	Onsite	N
Schiedea adamantis	Schiedea, diamond head	E	Plant	ARNG	I	Fort Ruger	HI	Onsite	N
Schiedea hookeri	No common name	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Y
		E	Plant	PARO	ı	Schofield Barracks	HI	Onsite	N
Schiedea kaalae	No common name	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Y—
		E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
Schiedea kealiae	Ma`oli`oli	E	Plant	PARO	1	Dillingham Military Reservation	HI	Contiguous	N
Schiedea nuttallii	No common name	E	Plant	PARO	1	Makua Military Reservation	HI	Onsite	Y—
		E	Plant	PARO	ı	Schofield Barracks	HI	Onsite	N
Schwalbea americana	Chaffseed, American	E	Plant	SERO	4	Fort Bragg	NC	Onsite	N
Scutellaria montana	Skullcap, large-flowered	T	Plant	ARNG	4	Catoosa Range/TS	TN	Onsite	N
Sesbania tomentosa	Ohai	E	Plant	ARNG	1	Kanaio Wets	Н	Onsite	N
Sidalcea nelsoniana	Checker-mallow, Nelson's	T	Plant	ARNG	ı	Corvallis/Camp Adair	OR	Onsite	N
Silene hawaiiensis	No common name	T	Plant	PARO	1	Pohakuloa TA	Н	Onsite	N
Silene lanceolata	No common name	E	Plant	PARO	ı	Makua Military Reservation	Н	Onsite	N
		E	Plant	PARO	ı	Pohakuloa TA	Н	Onsite	N
Sistrurus catenatus catenatus	Massasauga, eastern	С	Reptile	ARNG	3	MTC-H Camp Grayling	MI	Onsite	N
Solanum incompletum	Popolo ku mai	E	Plant	PARO	ı	Pohakuloa TA	Н	Onsite	N
Solanum sandwicense	Aiakeakua, popolo	E	Plant	PARO	1	Makua Military Reservation	Н	Contiguous	Y_
Solidago houghtonii	Goldenrod, Houghton's	T	Plant	ARNG	3	MTC-H Camp Grayling	MI	Onsite	N
Somateria fischeri	Eider, spectacled	T	Bird	ARNG	7	NG Elim Armory	AK	Contiguous	N
	''	T	Bird	ARNG	7	NG St. Michael Armory	AK	Contiguous	N
		T	Bird	ARNG	7	Stewart River TS	AK	Contiguous	N
Spermolepis hawaiiensis	No common name	E	Plant	ARNG	1	Fort Ruger	н	Onsite	Y_
		E	Plant	PARO	l i l	Makua Military Reservation	HI	Onsite	Y_
		E	Plant	PARO	1	Pohakuloa TA	HI	Onsite	N
Speyeria zerene hippolyta	Butterfly, Oregon silverspot	T	Insect	ARNG		MTA Camp Rilea	OR	Onsite	Υ
Spiranthes diluvialis	Ladies'-tresses, Ute	Ī	Plant	WEST	6	Fort Carson	CO	Contiguous	N
Stenogyne angustifolia	No common name	E	Plant	PARO	i	Pohakuloa TA	HI	Onsite	N N
Stenogyne kanehoana	No common name	E	Plant	PARO	ii	Schofield Barracks	HI	Onsite	N N
Sterna antillarum	Tern, least	E	Bird	ARNG	3	HQ STARC—MO	MO	Contiguous	N N
		E	Bird	WEST	6	Fort Riley	KS	Onsite	N N
		E	Bird	WEST	2	White Sands Missile Range	NM	Onsite	N N
Sterna antillarum browni	Tern, California least	E	Bird	USAR-63rd RRC	1	AMSA 13 (M), Mare Isle	CA	Onsite	N
Jee. na antinaram Divini	Tern, camornia icast	E	Bird	USAR-63rd RRC	'	PFC L.T. Baccigleiri Hall AFRC	CA	Contiguous	N N

SCIENTIFIC NAME	COMMON NAME	STATUS	CATEGORY	COMMAND	FWS REGION	INSTALLATION	STATE	ONSITE/ CONTIGUOUS	CRITICAL Habitat
Strix occidentalis caurina	Owl, northern spotted	Ī	Bird	ARNG	ı	Corvallis/Camp Adair	OR	Contiguous	N
	·	T	Bird	ARNG	ı	MTA Camp Rilea	OR	Contiguous	N
		T	Bird	USAR-70th RRC	ı	LTA-AVN TNG Area (Weyerhaeuser)	WA	Onsite	Y—0
		T	Bird	WEST	ı	Fort Lewis	WA	Contiguous	Y—0**
Strix occidentalis lucida	Owl, Mexican spotted	T	Bird	ARNG	2	Camp Navajo	AZ	Onsite	Y—0
	· ·	T	Bird	WEST	6	Fort Carson	СО	Contiguous	N
		T	Bird	WEST	2	Fort Huachuca	AZ	Onsite	N
		T	Bird	WEST	2	White Sands Missile Range	NM	Contiguous	N
Sylvilagus transitionalis	Rabbit, New England cottontail	С	Mammal	ARNG	5	Hollis Plains TS	ME	Onsite	N
Tetramolopium arenarium var. arenarium	Pamakani, Mauna Kea	E	Plant	PARO	ı	Pohakuloa TA	Н	Onsite	N
Tetramolopium filiforme	No common name	E	Plant	PARO	ı	Makua Military Reservation	Н	Onsite	N
Tetraplasandra gymnocarpa	Ohe`ohe	E	Plant	PARO	ı	Kahuku TA	н	Onsite	N
		E	Plant	PARO	ı	Kawailoa TA	Н	Onsite	N
		E	Plant	PARO	ı	Schofield Barracks	Н	Onsite	N
Thomomys mazama	Pocket gopher, Mazama	С	Mammal	WEST	ı	Fort Lewis	WA	Onsite	N
Tiaroga cobitis	Minnow, loach	T	Fish	WEST	2	Fort Huachuca	AZ	Contiguous	N
Trichechus manatus	Manatee, West Indian (=Florida)	E	Mammal	SERO	4	Military Ocean Terminal Sunny Point	NC	Contiguous	N
Trifolium stoloniferum	Clover, running buffalo	E	Plant	AMC	4	Blue Grass AD	КҮ	Onsite	N
		E	Plant	ARNG	5	Kingwood	wv	Onsite	N
Trillium reliquum	Trillium, relict	E	Plant	SERO	4	Fort Benning	GA	Onsite	N
Uma inornata	Lizard, Coachella Valley fringe-toed	T	Reptile	USAR-63rd RRC	I	March USARC/AMSA 19(G)	CA	Contiguous	N
Urera kaalae	Opuhe	E	Plant	PARO	I	Schofield Barracks	Н	Onsite	N
Vigna o-wahuensis	No common name	E	Plant	PARO	I	Pohakuloa TA	HI	Onsite	N
Viola chamissoniana ssp. chamissoniana	Pamakani	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	Н	Onsite	N
Viola oahuensis	No common name	E	Plant	PARO	I	Kawailoa TA	HI	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	Н	Onsite	N
Vireo atricapilla	Vireo, black-capped	E	Bird	ARNG	2	Camp Bowie (State)	TX	Onsite	N
		E	Bird	WEST	2	Fort Hood	TX	Onsite	N
		E	Bird	WEST	2	Fort Sam Houston	TX	Onsite	N
		E	Bird	WEST	2	Fort Sill	OK	Onsite	N
Vireo bellii pusillus	Vireo, least Bell's	E	Bird	ARNG	I	CTC Camp San Luis Obispo	CA	Onsite	N
		E	Bird	ARNG	I	MTC-H Camp Roberts	CA	Contiguous	N
		E	Bird	WEST	I	Fort Hunter Liggett	CA	Contiguous	N
Vulpes macrotis mutica	Fox, San Joaquin kit	E	Mammal	ARNG	I	MTC-H Camp Roberts	CA	Onsite	N
		E	Mammal	USAR-63rd RRC	I	Quinones AFRC	CA	Contiguous	N
		E	Mammal	WEST	I	Fort Hunter Liggett	CA	Onsite	N
		E	Mammal	WEST	I	U.S. Army CSTC And Camp Parks	CA	Contiguous	N
Xyris tennesseensis	Grass, Tennessee yellow-eyed	E	Plant	AMC	4	Anniston AD	AL	Onsite	N
		E	Plant	ARNG	4	Fort McClellan ARNG	AL	Onsite	N
Zanthoxylum hawaiiense	A`e	E	Plant	PARO	I	Pohakuloa TA	НІ	Onsite	N
Zapus hudsonius preblei	Mouse, Preble's meadow jumping	E	Mammal	ARNG	6	Douglas Armory, WY	WY	Contiguous	N
		T	Mammal	WEST	6	Fort Carson	СО	Contiguous	N

[&]quot;Y-O"—critical habitat on installation

 $[\]hbox{``Y-C''}-critical\ habitat\ contiguous\ to\ installation,\ but\ within\ action\ area}\\$

^{*} Delisted 8 August 2007

^{**} Critical habitat redesignated (13 August 2008). Critical habitat no longer designated on installation.

^{***} Delisted 12 March 2007; listing reinstated by court order

^{****} Proposed rule withdrawn 12 January 2007

[#] Non-essential experimental population

C

APPENDIX C: T&E SPECIES AND INSTALLATIONS WHERE RECORDED— SORTED BY COMMON NAME

COMMON NAME	SCIENTIFIC NAME	STATUS	CATEGORY	COMMAND	FWS REGION	INSTALLATION	STATE	ONSITE/ CONTIGUOUS	CRITICAL Habitat
A`e	Zanthoxylum hawaiiense	E	Plant	PARO	I	Pohakuloa TA	HI	Onsite	N
Aiakeakua, popolo	Solanum sandwicense	E	Plant	PARO	I	Makua Military Reservation	HI	Contiguous	Y—C
Aiea	Nothocestrum latifolium	С	Plant	PARO	I	Makua Military Reservation	HI	Onsite	N
Akoko	Chamaesyce celastroides var. kaenana	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	У—С
	Chamaesyce herbstii	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Ү—С
	Chamaesyce rockii	E	Plant	PARO	I	Kawailoa TA	НІ	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	НІ	Onsite	N
	Euphorbia haeleeleana	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Ү—С
Alani	Melicope hiiakae	С	Plant	PARO	I	Kawailoa TA	HI	Onsite	N
	Melicope lydgatei	E	Plant	PARO	ı	Kawailoa TA	НІ	Onsite	N
	Melicope pallida	E	Plant	PARO	1	Makua Military Reservation	НІ	Contiguous	Y—C
Alligator, American	Alligator mississippiensis	T(SA)	Reptile	AMC	2	Lone Star AAP	TX	Onsite	N
Amgacor, American	7 III gator III 331331ppicii 313	T(SA)	Reptile	ARNG	4	MTA Camp Shelby	MS	Onsite	N N
		T(SA)	Reptile	ARNG	4	MTC Camp Blanding	FL	Onsite	N N
		T(SA)	Reptile	SERO	4	Military Ocean Terminal Sunny Point	NC NC	Onsite	N N
		T(SA)	Reptile	SERO	4	Fort Benning	GA	Onsite	N N
			· ·	SERO	4	Fort Gordon	GA	Onsite	N N
A	A	T(SA)	Reptile	ARNG	·				
Amaranth, seabeach	Amaranthus pumilus	Ī	Plant		5	Sea Girt	NJ	Onsite	N
Amole, purple	Chlorogalum purpureum	T	Plant	ARNG	!	MTC-H Camp Roberts	CA	Onsite	N
		T	Plant	WEST		Fort Hunter Liggett	CA	Onsite	N
Anaunau	Lepidium arbuscula	E	Plant	PARO	l I	Makua Military Reservation	HI	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
Aupaka	Isodendrion hosakae	E	Plant	PARO	I	Pohakuloa TA	HI	Onsite	N
		T	Plant	PARO	I	Makua Military Reservation	HI	Contiguous	Y—C
Aupaka	Isodendrion longifolium	T	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
Bat, gray	Myotis grisescens	E	Mammal	AMC	4	Holston AAP	TN	Onsite	N
		E	Mammal	ARNG	4	Fort McClellan ARNG	AL	Onsite	N
		E	Mammal	SERO	4	Fort Campbell	КҮ	Onsite	N
		E	Mammal	SERO	4	Fort Knox	КҮ	Onsite	N
		E	Mammal	SERO	4	Redstone Arsenal	AL	Onsite	N
		E	Mammal	WEST	3	Fort Leonard Wood	МО	Onsite	N
Bat, Hawaiian hoary	Lasiurus cinereus semotus	E	Mammal	ARNG	i	Hilo (Keaukaha Military Reservation)	н	Onsite	N
zac, namanan noan,	Lastaras cincreas semetas	E	Mammal	PARO	i	Pohakuloa TA	HI	Onsite	N N
Bat. Indiana	Myotis sodalis	E	Mammal	AMC	4	Blue Grass AD	KY	Onsite	N N
Dat, mulana	1170tis soualis	E	Mammal	AMC	3	Iowa AAP	IA	Onsite	N N
		E	Mammal	AMC	3	Newport Chemical Depot	IN IN	Onsite	N N
		E			3		IN		N N
			Mammal	ARNG		Camp Atterbury		Onsite	
		E	Mammal	ARNG	3	Macon TS	MO	Onsite	N
		E	Mammal	NERO	5	Fort Drum	NY 	Onsite	N
		E	Mammal	NERO	5	Picatinny Arsenal	NJ 	Onsite	N
		E	Mammal	SERO	4	Fort Campbell	KY	Onsite	N
		E	Mammal	SERO	4	Fort Knox	KY	Onsite	N
		E	Mammal	SERO	4	Redstone Arsenal	AL	Contiguous	N
		E	Mammal	USAR- 88th RRC	3	Twinsburg USARC/AMSA #123	OH	Onsite	N
		E	Mammal	WEST	3	Fort Leonard Wood	MO	Onsite	N
Bat, lesser long-nosed	Leptonycteris curasoae yerbabuenae	E	Mammal	WEST	2	Fort Huachuca	AZ	Onsite	N
Bear-poppy, Dwarf	Arctomecon humilis	E	Plant	ARNG	6	OMS 10B/St. George	UT	Onsite	N
Beetle, American burying	Nicrophorus americanus	E	Insect	AMC	2	McAlester AAP	OK	Onsite	N
							L AD	0	M
		E	Insect	ARNG	4	Fort Chaffee Maneuver Training Center	AR	Onsite	N

Rente, Aerrican largreg Rente, Aerrican largreg Rente, Auffrey detriev, Jundpur Base, Petra Neas Repfress defined from Elegente colorisation depuis T.	COMMON NAME	SCIENTIFIC NAME	SUTATS	CATEGORY	COMMAND	FWS REGION	INSTALLATION	STATE	ONSITE/ CONTIGUOUS	CRITICAL Habitat
Base, Pareta Kora	Beetle, American burying	Nicrophorus americanus	E	Insect	ARNG	2	Camp Maxey	TX	Onsite	N
Boptic audien fers	Beetle, valley elderberry longhorn	Desmocerus californicus dimorphus	T	Insect	AMC	I	Riverbank AAP	CA	Contiguous	N
Botterly, Tender's bible	Boa, Puerto Rican	Epicrates inornatus	E	Reptile	SERO	4	Fort Buchanan	PR	Onsite	N
Betterly, Tender's Met Betterly, Corgon Shaper Betterly, Whiley deckeepept	Boyd's maiden fern	Christella boydiae	C	Plant	PARO	I	Kawailoa TA	HI	Onsite	N
Butterly, Kareer blue	Brodiaea, thread-leaved	Brodiaea filifolia	T	Plant	USAR 63rd RRC	I	Tustin USARC	CA	Contiguous	N
Butterly, Oregon alterneyst Speryrin aerene hippolyton T Indict AAMG 1 MTA Camp Riba OA Oncide N	Butterfly, Fender's blue	Icaricia icarioides fenderi	T	Insect	ARNG	I	Corvallis/Camp Adair	OR	Contiguous	N
Batterly, Staff Francés sayy Henrympha mitchelli financia E hoast SENO 4 Fort Bragg N.C. Oncide N.D. Batterly, While declarapst Euterly, While declarapst E Part SENO 4 Fort Bragg N.C. Oncide N.D. Oncide N	Butterfly, Karner blue	Lycaeides melissa samuelis	E	Insect	ARNG	5	State Military Reservation	NH	Onsite	N
Butterfly, Sinef Fazaci" stays			E	Insect	WEST	3	Fort McCoy	WI	Onsite	N
Destroif, Whiley decketoped Euphylryse deficial palpoid C blocet WEST S Fort Received No Onsite No	Butterfly, Oregon silverspot	Speyeria zerene hippolyta	T	Insect	ARNG	I	MTA Camp Rilea	OR	Onsite	Y—0
Botton, Mehrit Barbara	Butterfly, Saint Francis' satyr	Neonympha mitchellii francisci	E	Insect	SERO	4	Fort Bragg	NC	Onsite	N
Catus, fixenthre hedgelog Echisocreus fonderia E Plant WEST 2 Fort Bliss TX Onsite N	Butterfly, Whulge checkerspot	Euphydryas editha taylori	C	Insect	WEST	I	Fort Lewis	WA	Onsite	N
Cacrus, Sneed pinculsion Coryphancha sneedii E Plant MEST 2 Fort Birs TX Outrie N	Button, Mohr's Barbara	Marshallia mohrii	E	Plant	ARNG	4	Fort McClellan ARNG	AL	Onsite	N
Carefold, Olarik Amblyopiis ratase	Cactus, Kuenzler hedgehog	Echinocereus fendleri	E	Plant	WEST	2	Fort Bliss	TX	Onsite	N
Configured American Schwalbea americana E Plant SENO 4 Fort Brogg N Oncite N	Cactus, Sneed pincushion	Coryphantha sneedii	E	Plant	WEST	2	Fort Bliss	TX	Onsite	N
Chaffeed, American Schwalbea americana E Plant SEBO 4 Fort Bragg NC Onsite N	Cavefish, Ozark	Amblyopsis rosae	T	Fish	ARNG	3	Camp Crowder	MO	Contiguous	N
Checke-mallow, Netson's Sidalcea netsoniana T Piant ARNG 1 Corrullis/Camp Adair 0.8 Onsite N			T	Fish	ARNG	3	Springfield AVCRAD/AASF	MO	Contiguous	N
Clover, running buffalo	Chaffseed, American	Schwalbea americana	E	Plant	SERO	4	Fort Bragg	NC	Onsite	N
Condor, Californian	Checker-mallow, Nelson's	Sidalcea nelsoniana	T	Plant	ARNG	I	Corvallis/Camp Adair	OR	Onsite	N
Condor, California Gymnogpys californianus E Bird ARNG 1 CTC Camp San Luis Obispo CA Onsite N	Clover, running buffalo	Trifolium stoloniferum	E	Plant	AMC	4	Blue Grass AD	КҮ	Onsite	N
Conellower, smooth			E	Plant	ARNG	5	Kingwood	W۷	Onsite	N
Coneflower, smooth	Condor, California	Gymnogyps californianus	E	Bird	ARNG	I	CTC Camp San Luis Obispo	CA	Onsite	N
Coneflower, smooth Echinacea laevigata E Plant SERO 4 Leeburg IS SC Onsite N			E	Bird	ARNG	I	MTC-H Camp Roberts	CA	Contiguous	N
Fulica americana alai			E	Bird	WEST	I	Fort Hunter Liggett	CA	Onsite	N
Coot, Hawaiian (='alae-ke'oke'o) Fulica americana alai E Bird ARNG I Ukumehame Wets HI Onsite N	Coneflower, smooth	Echinacea laevigata	E	Plant	ARNG	4	Leesburg TS	SC	Onsite	N
Crane, whooping Grus americana E Bird WEST 2 Fort Hood TX Onsite N			E	Plant	SERO	4	Fort Jackson	SC	Onsite	N
Crane, whooping Grus americana E Bird WEST 2 Fort Hood TX Onsite N Coccyzus americanus C Bird WEST 2 Fort Huachuca AZ Onsite N Daisy, Parish's Erigeron basalticus T Plant USAR 63rd RKC I March USAKCAMSA 19(6) C Onsite N Damselfly, blackline Hawaiian Megalagrion leptodemus T I Insect PARO I Kawaiioa TA HI Onsite N Damselfly, crimson Hawaiian Megalagrion santhomelas C Insect PARO I Schofield Barracks HI Onsite N Darrer, Arkansas Etheostoma cragini E Bird ARNG I Grigeron Parishi N Duck, Hawaiian (=koloa) Anas wyvilliana E Bird ARNG I Usumehame Wets HI Onsite N Eagle, bald* Haliaeetus leucocephalus T Bird AMC I Hawthome AD NV Onsite N T Bird AMC I Hawthome AD NV Onsite N T Bird ARNG I Hawthome AD NV Onsite N T Bird ARNG I Hawthome AD NV Onsite N T Bird ARNG I Hawthome AD NV Onsite N T Bird ARNG I Gamp Attrebury IN Onsite N T Bird ARNG I Gamp Inversy VA Onsite N T Bird ARNG I Gamp Inversy VA Onsite N T Bird ARNG I Gamp Inversy VA Onsite N T Bird ARNG I Gamp Inversy VA Onsite N T Bird ARNG I Gamp Inversy VA Onsite N T Bird ARNG I Gamp Inversy VA Onsite N T Bird ARNG I Gamp Inversy VA Onsite N T Bird ARNG I Gamp Inversy VA Onsite N T Bird ARNG I Gamp Inversy VA Onsite N T Bird ARNG I ARNG I Gamp Inversy VA Onsite N T Bird ARNG I ARNG I Gamp Inversy VA On	Coot, Hawaiian (= 'alae-ke'oke'o)	Fulica americana alai	E	Bird	ARNG	ı	Fort Ruger	HI	Onsite	N
Cuckoo, yellow-billed (Western U.S.) Cocyzus americanus C Bird WEST 2 White Sands Missile Range NM Onsite N Daisy, basalt Erigeron basalticus C Plant WEST 1 Yakima Training Center WA Onsite N Daisy, Parish's Erigeron parishili Damselfly, Diakcline Hawaiian Pegalagrion leptodemus Megalagrion ranthomelas C Insect PARO 1 March USARC/AMSA 19(G) Damselfly, crimson Hawaiian Megalagrion ranthomelas C Insect PARO 1 Schofield Barracks Megalagrion xanthomelas C Insect PARO 1 Tripler Army Medical Center HI Onsite N Damselfly, crimson Hawaiian Damselfly, crimson Hawaiian Megalagrion xanthomelas C Insect PARO 1 Tripler Army Medical Center HI Onsite N Darter, Arkansas Etheostoma cragini C Fish WEST 6 Fort Carono CO Onsite N Duck, Hawaiian (=koloa) Anas wyrilliana E Bird ARNG E Bird ARNG Haliaeetus leucocephalus F Bird AMC AMC Holston AAP T Bird AMC T Bird AMC T Bird ARNG T Camp Durseyn T Camp Dur	,		E	Bird	ARNG	I	Ukumehame Wets	Н	Onsite	N
Cuckoo, yellow-billed (Western U.S.) Coccysus americanus C Bird WEST 2 White Sands Itissile Range NM Onsite N	Crane, whooping	Grus americana	E	Bird	WEST	2	Fort Hood	TX	Onsite	N
Daisy, basalt Erigeron basalticus C Plant WEST I Yakima Training Center WA Onsite N Daisy, Parish's Erigeron parishii T Plant USAR-63rd RRC I March USARC/AMSA 19(G) CA Contiguous N Damselfly, blackline Hawaiian Megalagrion leptodemus T Insect PARO I Schofield Barracks HI Onsite N Damselfly, crimson Hawaiian Megalagrion xanthomelas C Insect PARO I Schofield Barracks HI Onsite N Damselfly, crangeblack Hawaiian Megalagrion xanthomelas C Insect PARO I Tripler Army Medical Center HI Onsite N Darter, Arkansas Etheostoma cragini C Fish WEST 6 Fort Carson CO Onsite N Duck, Hawaiian (=koloa) Anas wyrilliana E Bird ARNG I Ukumehame Wets HI Onsite N Eagle, bald* Haliaeetus leucocephalus T Bird ARNG I Ukumehame Wets HI Onsite N T Bird AMC I Hawthorne AD NY Onsite N T Bird AMC 4 Holston AAP TN Onsite N T Bird ARNG 3 (Clinton) Truman Reservoir T.S. MO Onsite N T Bird ARNG 3 (Clinton) Truman Reservoir T.S. MO Onsite N T Bird ARNG 3 Camp Crowder MO Contiguous N T Bird ARNG 3 Camp Crowder MO Contiguous N T Bird ARNG 3 Camp Crowder MO Contiguous N T Bird ARNG 3 Camp Crowder MO Contiguous N T Bird ARNG 3 Camp Crowder MO Contiguous N T Bird ARNG 3 Camp Crowder MO Contiguous N T Bird ARNG 3 Camp Crowder MO Contiguous N T Bird ARNG 3 Camp Crowder MO Contiguous N T Bird ARNG 4 Camp Joseph T. Robinson AR Contiguous N T Bird ARNG 4 Camp Joseph T. Robinson AR Contiguous N T Bird ARNG 4 Camp Joseph T. Robinson AR Contiguous N T Bird ARNG 1 Camp Murray WA Onsite N	Cuckoo, yellow-billed (Western U.S.)	Coccyzus americanus	C	Bird	WEST	2	Fort Huachuca	AZ	Onsite	N
Daisy, Parish's Erigeron parishii T Plant USAR-63rd RRC I March USARC/AMSA 19(G) CA Contiguous N Damselfly, blackline Hawaiian Megalagrion leptodemus T Insect PARO I Schofield Barracks HI Onsite N Damselfly, crimson Hawaiian Megalagrion kanthomelas C Insect PARO I Tripler Army Medical Center HI Onsite N Darter, Arkansas Etheostoma cragini C Fish WEST 6 Fort Carson CO Onsite N Duck, Hawaiian (=koloa) Anas wyrilliana E Bird ARNG I Wumehame Wests HI Onsite N Eagle, bald* Haliaeetus leucocephalus T Bird ARNG I Hawthorne AD NV Onsite N Dird ARNG I Clinton) Truman Reservoir T.S. MO Onsite N Dird ARNG I Gamp Atterbury IN Onsite N Dird ARNG I Gamp Atterbury IN Onsite N Dird ARNG I Gamp Atterbury IN Onsite N Dird ARNG I Gamp Atterbury WA Onsite N Dird ARNG I Gamp Murray WA Onsite N Dird ARNG I Gamp Mu	, , , , ,	'	С	Bird	WEST	2	White Sands Missile Range	NM	Onsite	N
Daisy Parish's Erigeron parishii T Plant USAR-63rd RRC I March USARC/AMSA 19(G) CA Contiguous N	Daisy, basalt	Erigeron basalticus	С	Plant	WEST	I	Yakima Training Center	WA	Onsite	N
Damselfly, blackline Hawaiian Megalagrion ignofamatum nigrolineatum C Insect PARO I Kawailoa TA HI Onsite N	,		T	Plant	USAR- 63rd RRC	l		CA	Contiguous	N
Damselfly, crimson Hawaiian Megalagrion leptodemus Parol I Insect Parol I Schofield Barracks HI Onsite N Damselfly, orangeblack Hawaiian Megalagrion xanthomelas C Insect Parol I Tripler Army Medical Center HI Onsite N Darter, Arkansas Etheostoma cragini C Fish WEST 6 Fort Carson CO Onsite N Duck, Hawaiian (=koloa) Anas wyvilliana E Bird Armo I Ukumehame Wets HI Onsite N Eagle, bald* Haliaeetus leucocephalus T Bird Armo I Ukumehame Wets HI Onsite N T Bird Armo I Hawatorne AD NV Onsite N T Bird Armo I Hawatorne AD NV Onsite N T Bird Armo I Holston AAP TN Onsite N T Bird Armo I Holston AAP TN Onsite N T Bird Armo I Rewport Chemical Depot IIN Onsite N T Bird Armo I Rewport Chemical Depot IIN Onsite N T Bird Armo I Rewport Chemical Depot IIN Onsite N T Bird Armo I Rewport Chemical Depot IIN Onsite N T Bird Armo I Rewport Chemical Depot IIN Onsite N T Bird Armo I Rewport Chemical Depot IIN Onsite N T Bird Armo I Rewport Chemical Depot IIN Onsite N T Bird Armo I Remport Chemical Depot IIN Onsite N T Bird Armo I Remport Chemical Depot IIN Onsite N T Bird Armo I Remport Chemical Depot IIN Onsite N T Bird Armo I Remport Chemical Depot IIN Onsite N T Bird Armo I Remport Chemical Depot IIN Onsite N T Bird Armo I Remport Chemical Depot IIN Onsite N T Bird Armo I Remport Chemical Depot IIN Onsite N T Bird Armo I Remport Chemical Depot IIN Onsite N T Bird Armo I Remport Chemical Depot IIN Onsite N T Bird Armo I Remport Chemical Depot IIN Onsite N T Bird Armo I Remport Chemical Depot IIN Onsite N T Bird Armo I Remport Chemical Depot IIN Onsite N T Bird Armo I Remport Chemical Depot IIN Onsite N T Bird Armo I Remport Chemical Depot IIN Onsite N T Bird Armo I Remport Chemical Depot IIN Onsite N T Bird Armo I Remport Chemical Depot IIN Onsite N T Bird Armo I Remport III Remp	Damselfly, blackline Hawaiian	<u> </u>	С	Insect	PARO	I	Kawailoa TA	HI		N
Damselfly, orangeblack Hawaiian Megalagrion xanthomelas C Insect PARO I Tripler Army Medical Center HI Onsite N	·		T	Insect	PARO	I	Schofield Barracks	Н		N
Darter, Arkansas Etheostoma cragini C Fish WEST 6 Fort Carson CO Onsite N	, ·	0 0 1	С	Insect	PARO	ı	Tripler Army Medical Center	н	Onsite	N
Duck, Hawaiian (=koloa) Anas wyvilliana E Bird ARNG I Ukumehame Wets HI Onsite N Eagle, bald* Haliaeetus leucocephalus T Bird AMC	, ,	, , ,	С	Fish	WEST	6	· '	СО		N
Eagle, bald* Haliaeetus leucocephalus T Bird AMC 6 Deseret Chemical Depot UT Contiguous N T Bird AMC 1 Hawthorne AD NV Onsite N T Bird AMC 3 Newport Chemical Depot IN Onsite N T Bird AMC 3 Newport Chemical Depot IN Onsite N T Bird ARNG 3 (Clinton) Truman Reservoir T.S. MO Onsite N T Bird ARNG 6 Camp Ashland NE Onsite N T Bird ARNG 3 Camp Atterbury IN Onsite N T Bird ARNG 3 Camp Crowder MO Contiguous N T Bird ARNG 4 Camp Joseph T. Robinson AR Contiguous N T Bird ARNG 1 Camp Murray WA Onsite N T Bird ARNG 1 Camp Murray WA Onsite N T Bird ARNG 1 Camp Murray WA Onsite N			E	Bird	ARNG	ı	Fort Ruger	н	Onsite	N
Haliaeetus leucocephalus T Bird AMC I Hawthorne AD NV Onsite N T Bird AMC I Holston AAP TN Onsite N T Bird ARNG I Bird ARNG I Bird ARNG I Camp Ashland NE Onsite N T Bird ARNG I Bird ARNG I Camp Crowder MO Contiguous N T Bird ARNG I Bird ARNG I Bird ARNG I Camp Joseph T. Robinson AR Contiguous N T Bird ARNG I Bird ARNG I Camp Murray WA Onsite N T Bird ARNG I Camp Nowarjo AR Contiguous N T Bird ARNG I Camp Nowarjo AR Contiguous N T Bird ARNG I Camp Nowarjo AR Contiguous N T Bird ARNG I Camp Nowarjo AZ Onsite N		,				ı		_		N
T Bird AMC I Hawthorne AD NV Onsite N T Bird AMC 4 Holston AAP TN Onsite N T Bird AMC 3 Newport Chemical Depot IN Onsite N T Bird ARNG 3 (Clinton) Truman Reservoir T.S. MO Onsite N T Bird ARNG 6 Camp Ashland NE Onsite N T Bird ARNG 3 Camp Atterbury IN Onsite N T Bird ARNG 3 Camp Crowder MO Contiguous N T Bird ARNG 4 Camp Joseph T. Robinson AR Contiguous N T Bird ARNG I Camp Murray WA Onsite N T Bird ARNG I Camp Murray WA Onsite N	Eagle, bald*	Haliaeetus leucocephalus				6				N
T Bird AMC 4 Holston AAP TN Onsite N T Bird AMC 3 Newport Chemical Depot IN Onsite N T Bird ARNG 3 (Clinton) Truman Reservoir T.S. MO Onsite N T Bird ARNG 6 Camp Ashland NE Onsite N T Bird ARNG 3 Camp Atterbury IN Onsite N T Bird ARNG 3 Camp Crowder MO Contiguous N T Bird ARNG 4 Camp Joseph T. Robinson AR Contiguous N T Bird ARNG 1 Camp Murray WA Onsite N T Bird ARNG 1 Camp Murray WA Onsite N	,						·	_		
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T Bird ARNG I Camp Murray WA Onsite N T Bird ARNG 2 Camp Navajo AZ Onsite N							·	_	_	
T Bird ARNG 2 Camp Navajo AZ Onsite N						· 			-	
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T Bird ARNG 3 Camp Perry NH Oncite N			T	Bird	ARNG	3	Camp Perry	OH	Onsite	N N

COMMON NAME	SCIENTIFIC NAME	STATUS	CATEGORY	COMMAND	FWS REGION	INSTALLATION	STATE	ONSITE/ CONTIGUOUS	CRITICAL Habitat
Eagle, bald*	Haliaeetus leucocephalus	T	Bird	ARNG	3	Camp Ripley	MN	Onsite	N
		T	Bird	ARNG	5	Camp Smith CSMS A	NY	Contiguous	N
		T	Bird	ARNG	I	Corvallis/Camp Adair	OR	Contiguous	N
		T	Bird	ARNG	4	Fort Chaffee Maneuver Training Center	AR	Onsite	N
		T	Bird	ARNG	5	Fort Pickett ARNG MTC	VA	Onsite	N
		T	Bird	ARNG	3	HQ STARC—MO	MO	Onsite	N
		T	Bird	ARNG	3	Macon TS	MO	Onsite	N
		T	Bird	ARNG	I	MTA Camp Rilea	OR	Onsite	N
		T	Bird	ARNG	4	MTC Camp Blanding	FL	Onsite	N
		T	Bird	ARNG	3	MTC-H Camp Grayling	MI	Onsite	N
		T	Bird	ARNG	6	MTC-H Camp Guernsey	WY	Onsite	N
		T	Bird	ARNG	ı	MTC-H Camp Roberts	CA	Onsite	N
		T	Bird	NERO	5	Aberdeen Proving Ground	MD	Onsite	N
		T	Bird	NERO	5	Fort AP Hill	VA	Onsite	N
		T	Bird	NERO	5	Fort Belvoir	VA	Onsite	N
		T	Bird	NERO	5	Fort Dix	NJ	Onsite	N
		T	Bird	NERO	5	Fort Eustis	VA	Onsite	N
		T	Bird	NERO	5	Fort Lee	VA	Contiguous	N
		T	Bird	NERO	5	U.S. Army Research Laboratory Adelphi	MD	Onsite	N
		T	Bird	NERO	5	West Point Military Reservation	NY	Onsite	N
		T	Bird	SERO	4	Fort Benning	GA	Onsite	N
		T	Bird	SERO	4	Fort Gordon	GA	Contiguous	N
		T	Bird	SERO	4	Fort Knox	КУ	Onsite	N N
		T	Bird	SERO	4	Fort Rucker	AL	Contiguous	N N
		T	Bird	SERO	4	Fort Stewart	GA	Onsite	N N
		T	Bird	SERO	4	Military Ocean Terminal Sunny Point	NC	Onsite	N N
		T	Bird	SERO	4	Redstone Arsenal	AL	Onsite	N N
		T	Bird	USAR- 70th RRC	<u> </u>	Fort Lawton USAR Complex	WA	Contiguous	N N
		T	Bird	USAR- 70th RRC	 	LTA-AVN TNG Area (Weyerhaeuser)	WA	Contiguous	N N
		T	Bird	WEST	6	Dugway Proving Ground	UT	Contiguous	N N
		T	Bird	WEST	2	Fort Bliss	TX	Onsite	N N
		T	Bird	WEST	2	Fort Hood	TX	Onsite	N N
		T	Bird	WEST	1	Fort Hunter Liggett	CA	Onsite	N N
		T	Bird	WEST	6	Fort Leavenworth	KS	Onsite	N
		T	Bird	WEST	3	Fort Leavenworth Fort Leonard Wood	MO	Onsite	N
		T	Bird	WEST	l I	Fort Lewis	WA		N
		T						Onsite	
			Bird	WEST	6	Fort McCoy	KS	Onsite	N N
		T	Bird	WEST		Fort Riley		Onsite	
		Ī	Bird	WEST	6	Pinon Canyon	CO	Onsite	N
		Ī	Bird	WEST	3	Rock Island Arsenal	IL	Onsite	N
		T	Bird	WEST	2	White Sands Missile Range	NM	Onsite	N
r'i i i		Ī	Bird	WEST		Yakima Training Center	WA	Onsite	N
Eider, spectacled	Somateria fischeri	T	Bird	ARNG	7	NG Elim Armory	AK	Contiguous	N
		T	Bird	ARNG	7	NG St. Michael Armory	AK	Contiguous	N N
		T	Bird	ARNG	7	Stewart River TS	AK	Contiguous	N
Eider, Stellar's	Polysticta stellari	T	Bird	ARNG	7	Kwigillingok Scout Armory	AK	Contiguous	N
		T	Bird	ARNG	7	NG Chevak Armory	AK	Contiguous	N
Elepaio, Oahu	Chasiempis sandwichensis ibidis	E	Bird	PARO	<u> </u>	Makua Military Reservation	HI	Onsite	Y—0
		E	Bird	PARO	l	Schofield Barracks	HI	Onsite	Y—0
Fairy shrimp, vernal pool	Branchinecta lynchi	T	Crustacean	ARNG	l	MTC-H Camp Roberts	CA	Onsite	N
		T	Crustacean	USAR- 63rd RRC	I	BT Collins Enclave	CA	Onsite	N
		T	Crustacean	WEST	I	Fort Hunter Liggett	CA	Onsite	N

COMMON NAME	SCIENTIFIC NAME	SUTATUS	CATEGORY	COMMAND	FWS REGION	INSTALLATION	STATE	ONSITE/ CONTIGUOUS	CRITICAL Habitat
Falcon, northern Aplomado	Falco femoralis septentrionalis	E	Bird	WEST	2	Fort Bliss	TX	Onsite	N
		PT	Bird	WEST	2	White Sands Missile Range	NM	Onsite#	N
Fiddleneck, large-flowered	Amsinckia grandiflora	E	Plant	USAR- 63rd RRC	I	PFC L.T. Baccigleiri Hall AFRC	CA	Contiguous	N
Fleabane, Lemmon	Erigeron lemmonii	C	Plant	WEST	2	Fort Huachuca	AZ	Onsite	N
Flycatcher, southwestern willow	Empidonax traillii extimus	E	Bird	USAR- 63rd RRC	I	Tustin USARC	CA	Contiguous	N
		E	Bird	WEST	2	Fort Huachuca	AZ	Contiguous	N
		E	Bird	WEST	2	White Sands Missile Range	NM	Contiguous	N
Fox, San Joaquin kit	Vulpes macrotis mutica	E	Mammal	ARNG	I	MTC-H Camp Roberts	CA	Onsite	N
		E	Mammal	USAR- 63rd RRC	I	Quinones AFRC	CA	Contiguous	N
		E	Mammal	WEST	I	Fort Hunter Liggett	CA	Onsite	N
		E	Mammal	WEST	I	U.S. Army CSTC And Camp Parks	CA	Contiguous	N
Frog, California red-legged	Rana aurora draytonii	T	Amphibian	ARNG	I	CTC Camp San Luis Obispo	CA	Onsite	N
		T	Amphibian	USAR- 63rd RRC	ı	PFC L.T. Baccigleiri Hall AFRC	CA	Contiguous	N
		T	Amphibian	WEST	I	Fort Hunter Liggett	CA	Onsite	N
		T	Amphibian	WEST	I	U.S. Army CSTC And Camp Parks	CA	Onsite	N
Gilia, Monterey	Gilia tenuiflora ssp.arenaria	E	Plant	USAR- 63rd RRC	I	LTAMoss Landing	CA	Onsite	N
		E	Plant	USAR- 63rd RRC	ı	Marina USARC/OMS/AMSA 12 S-S	CA	Onsite	N
Goldenrod, Houghton's	Solidago houghtonii	T	Plant	ARNG	3	MTC-H Camp Grayling	MI	Onsite	N
Goose, Hawaiian (=nene)	Branta sandvicensis	E	Bird	ARNG	ı	Ukumehame Wets	НІ	Onsite	N
				PARO	ı	Pohakuloa TA	НІ	Onsite	N
Grass, Tennessee yellow-eyed	Xyris tennesseensis	E	Plant	AMC	4	Anniston AD	AL	Onsite	N
, ,	'	E	Plant	ARNG	4	Fort McClellan ARNG	AL	Onsite	N
Ground beetle	Rhadine exilis	E	Insect	WEST	2	Fort Sam Houston	ТХ	Onsite	N
	Rhadine infernalis	E	Insect	WEST	2	Fort Sam Houston	ТХ	Onsite	N
Grouse, greater sage (Columbia Basin DPS, WA)	Centrocercus urophasianus phaios	C	Bird	WEST	I	Yakima Training Center	WA	Onsite	N
Ha`iwale	Cyrtandra dentata	E	Plant	PARO	I	Kawailoa TA	HI	Onsite	N
		E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Y—С
	Cyrtandra subumbellata	E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
	Cyrtandra viridiflora	E	Plant	PARO	I	Kawailoa TA	HI	Onsite	N
		E	Plant	PARO	ı	Schofield Barracks	НІ	Onsite	N
Haha	Cyanea acuminata	E	Plant	PARO	I	Kawailoa TA	Н	Onsite	N
		E	Plant	PARO	ı	Schofield Barracks	НІ	Onsite	N
	Cyanea calycina	С	Plant	PARO	I	Kawailoa TA	НІ	Onsite	N
		С	Plant	PARO	ı	Schofield Barracks	Н	Onsite	N
	Cyanea crispa	E	Plant	PARO	ı	Kawailoa TA	HI	Onsite	N
	Cyanea grimesiana ssp. obatae	E	Plant	PARO	ı	Makua Military Reservation	HI	Onsite	Y—C
		E	Plant	PARO	ı	Schofield Barracks	НІ	Onsite	N
	Cyanea humboldtiana	E	Plant	PARO	ı	Kawailoa TA	НІ	Onsite	N
	Cyanea koolauensis	E	Plant	PARO	II.	Kahuku TA	н	Onsite	N
	,,	E	Plant	PARO		Kawailoa TA	Н	Onsite	N
		E	Plant	PARO	i	Schofield Barracks	HI	Onsite	N N
	Cyanea longiflora	E	Plant	PARO	i i	Makua Military Reservation	HI	Onsite	Y—C
	Cyanea st-johnii	E	Plant	PARO	i	Kawailoa TA	HI	Onsite	N N
	Cyanea strjonnii	E	Plant	PARO	<u> </u>	Schofield Barracks	HI	Onsite	N
	Cyanea superba	E	Plant	PARO	'	Makua Military Reservation	HI	Onsite	N
	Lobelia niihauensis	E	Plant	PARO	'	Makua Military Reservation	HI	Onsite	N
Harperella	Ptilimnium nodosum	E	Plant	ARNG	5	LIL Aaron Strauss	MD	Onsite	N
Hawk, Hawaiian (='lo)	Buteo solitarius	E	Bird	ARNG) 	Hilo (Keaukaha Military Reservation)	HI	Onsite	N N
Hawk, Hawallall (- 10)	PATER ZOUTALIAZ								N N
Hamah : :	Hamlastashur bardastashur	E	Bird	PARO		Pohakuloa TA	H	Onsite	
Honohono	Haplostachys haplostachya	E	Plant	PARO	!	Pohakuloa TA	HI	Onsite	N
Howellia, water	Howellia aquatilis	T	Plant	WEST	<u> </u>	Fort Lewis	WA	Onsite	N
Hulumoa	Korthalsella degeneri	С	Plant	PARO	<u> </u>	Makua Military Reservation	HI	Onsite	N

COMMON NAME	SCIENTIFIC NAME	STATUS	CATEGORY	COMMAND	FWS REGION	INSTALLATION	STATE	ONSITE/ CONTIGUOUS	CRITICAL Habitat
Jaguar	Panthera onca	E	Mammal	WEST	2	White Sands Missile Range	NM	Onsite	N
Jay, Florida scrub	Aphelocoma coerulescens	T	Bird	ARNG	4	MTC Camp Blanding	FL	Onsite	N
Kamakahala	Labordia cyrtandrae	E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
Kamanomano	Cenchrus agrimonioides	E	Plant	PARO	ı	Makua Military Reservation	HI	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
Kampua`a	Hedyotis fluviatilis	С	Plant	PARO	I	Kawailoa TA	HI	Onsite	N
Kangaroo rat, giant	Dipodomys ingens	E	Mammal	USAR- 63rd RRC	I	Leymel Hall USARC	CA	Contiguous	N
Kangaroo rat, San Bernardino Merriam's	Dipodomys merriami parvus	E	Mammal	USAR- 63rd RRC	I	March USARC/AMSA 19(G)	CA	Contiguous	N
Kangaroo rat, Stephens'	Dipodomys stephensi (incl. D. cascus)	E	Mammal	USAR- 63rd RRC	I	March USARC/AMSA 19(G)	CA	Contiguous	N
Kauila	Colubrina oppositifolia	E	Plant	PARO	I	Makua Military Reservation	HI	Contiguous	Y—C
Kaulu	Pteralyxia macrocarpa	С	Plant	PARO	I	Kahuku TA	HI	Onsite	N
		С	Plant	PARO	I	Kawailoa TA	HI	Onsite	N
		С	Plant	PARO	I	Makua Military Reservation	HI	Onsite	N
		С	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
Kio`ele	Hedyotis coriacea	E	Plant	PARO	I	Pohakuloa TA	HI	Onsite	N
Kolea	Myrsine juddii	E	Plant	PARO	I	Kawailoa TA	HI	Onsite	N
Kuahiwi laukahi	Plantago princeps	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	N
		E	Plant	PARO	ı	Schofield Barracks	HI	Onsite	N
Kulu'i	Nototrichium humile	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Y—С
Ladies'-tresses, Ute	Spiranthes diluvialis	T	Plant	WEST	6	Fort Carson	CO	Contiguous	N
Lark, streaked horned	Eremophila alpestris strigata	С	Bird	WEST	I	Fort Lewis	WA	Onsite	N
Lau `ehu	Panicum niihauense	E	Plant	ARNG	I	Kekaha Wets	HI	Onsite	Y—0
Lizard, Coachella Valley fringe-toed	Uma inornata	T	Reptile	USAR- 63rd RRC	I	March USARC/AMSA 19(G)	CA	Contiguous	N
Lo`ulu	Pritchardia kaalae	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	N
Logperch, Roanoke	Percina rex	E	Fish	ARNG	5	Fort Pickett ARNG MTC	VA	Onsite	N
Loosestrife, roughleaved	Lysimachia asperulaefolia	E	Plant	SERO	4	Military Ocean Terminal Sunny Point	NC	Onsite	N
		E	Plant	ARNG	4	Leesburg TS	SC	Onsite	N
		E	Plant	SERO	4	Fort Bragg	NC	Onsite	N
		E	Plant	SERO	4	Fort Jackson	SC	Onsite	N
Lupine, Kincaid's	Lupinus sulphureus kincaidii	E	Plant	ARNG	I	Corvallis/Camp Adair	OR	Onsite	N
Ma`o hau hele	Hibiscus brackenridgei	E	Plant	PARO	I	Dillingham Military Reservation	HI	Contiguous	N
		E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	N
Ma`oli`oli	Schiedea kealiae	E	Plant	PARO	I	Dillingham Military Reservation	HI	Contiguous	N
Maaloa	Neraudia Ovata	E	Plant	PARO	I	Pohakuloa TA	HI	Onsite	N
Ma'aloa	Neraudia angulata	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Y—С
		E	Plant	PARO	ı	Schofield Barracks	HI	Onsite	N
Madla's cave meshweaver	Cicurina madla	E	Other Invertebrate	WEST	2	Fort Sam Houston	TX	Onsite	N
Mahoe	Alectryon macrococcus	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	N
		E	Plant	PARO	ı	Schofield Barracks	HI	Onsite	N
Makou	Peucedanum sandwicense	T	Plant	PARO	I	Makua Military Reservation	HI	Onsite	N
Manatee, West Indian (=Florida)	Trichechus manatus	E	Mammal	SERO	4	Military Ocean Terminal Sunny Point	NC	Contiguous	N
Massasauga, eastern	Sistrurus catenatus catenatus	С	Reptile	ARNG	3	MTC-H Camp Grayling	MI	Onsite	N
Mehamehame	Flueggea neowawraea	E	Plant	PARO	ı	Makua Military Reservation	HI	Onsite	Y—С
		E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
Milk-vetch, Lane Mountain	Astragalus jaegerianus	E	Plant	WEST	ı	National Training Center and Fort Irwin	CA	Onsite	N
Minnow, Ioach	Tiaroga cobitis	T	Fish	WEST	2	Fort Huachuca	AZ	Contiguous	N
Moorhen, Hawaiian Common	Gallinula chloropus sandvicensis	E	Bird	ARNG	I	Fort Ruger	HI	Onsite	N
		E	Bird	ARNG	I	Ukumehame Wets	HI	Onsite	N
Moth, Blackburn's sphinx	Manduca blackburni	E	Insect	ARNG	I	Kanaio Wets	HI	Onsite	Y—0
Mouse, Pacific pocket	Perognathus longimembris pacificus	E	Mammal	USAR- 63rd RRC	ı	March USARC/AMSA 19(G)	CA	Contiguous	N

COMMON NAME	SCIENTIFIC NAME	STATUS	CATEGORY	COMMAND	FWS REGION	INSTALLATION	STATE	ONSITE/ CONTIGUOUS	CRITICAL Habitat
Mouse, Preble's meadow jumping	Zapus hudsonius preblei	E	Mammal	ARNG	6	Douglas Armory, WY	WY	Contiguous	N
		T	Mammal	WEST	6	Fort Carson	CO	Contiguous	N
Murrelet, marbled	Brachyramphus marmoratus marmoratus	T	Bird	ARNG	I	MTA Camp Rilea	OR	Contiguous	N
		T	Bird	USAR- 70th RRC	I	LTA-AVN TNG Area (Weyerhaeuser)	WA	Onsite	Y—C
		T	Bird	WEST	I	Fort Lewis	WA	Contiguous	N
Na`ena`e	Dubautia herbstobatae	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Y—C
Nanu	Gardenia mannii	E	Plant	PARO	I	Kahuku TA	HI	Onsite	N
		E	Plant	PARO	I	Kawailoa TA	HI	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
Nehe	Lipochaeta tenuifolia	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Ү—С
Nioi	Eugenia koolauensis	E	Plant	PARO	I	Kahuku TA	HI	Onsite	N
Noho, Kula wahine	Isodendrion pyrifolium	E	Plant	PARO	I	Makua Military Reservation	HI	Contiguous	Y—C
No common name	Abutilon sandwicense	E	Plant	PARO	I I	Makua Military Reservation	HI	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
	Alsinidendron obovatum	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Y—C
	Alsinidendron trinerve	E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
	Asplenium fragile var.insulare	E	Plant	PARO	I	Pohakuloa TA	HI	Onsite	N
	Bonamia menziesii	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Ү—С
	Diellia falcata	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Ү—С
		E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
	Gouania vitifolia	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Ү—С
	Hedyotis degeneri	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Ү—С
	Hedyotis parvula	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Y—С
	Hesperomannia arborescens	E	Plant	PARO	I.	Kawailoa TA	HI	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	НІ	Onsite	N
	Hesperomannia arbuscula	E	Plant	PARO	I.	Makua Military Reservation	Н	Onsite	Y—С
	Lipochaeta venosa	E	Plant	PARO	I	Pohakuloa TA	НІ	Onsite	N
	Lobelia gaudichaudii ssp. koolauensis	E	Plant	PARO	I	Schofield Barracks	НІ	Onsite	N
	Lobelia niihauensis	E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
	Lobelia oahuensis	E	Plant	PARO	I	Kawailoa TA	НІ	Onsite	N
		E	Plant	PARO	ı	Makua Military Reservation	HI	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	Н	Onsite	N
	Mariscus pennatiformis	E	Plant	PARO	I	Makua Military Reservation	Н	Contiguous	Y—C
	Phlegmariurus nutans	E	Plant	PARO	I	Kawailoa TA	HI	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	Н	Onsite	N
	Phyllostegia hirsuta	E	Plant	PARO	I	Kawailoa TA	HI	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	Н	Onsite	N
	Phyllostegia kaalaensis	E	Plant	PARO	I	Makua Military Reservation	Н	Onsite	Ү—С
		E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
	Phyllostegia parviflora	E	Plant	PARO	I	Kawailoa TA	Н	Onsite	N
	Platydesma cornuta cornuta	С	Plant	PARO	I	Kawailoa TA	НІ	Onsite	N
		С	Plant	PARO	I	Makua Military Reservation	Н	Onsite	N
	Platydesma cornuta descurrens	С	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
	Pteris lidgatei	E	Plant	PARO	I	Kawailoa TA	Н	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
	Sanicula mariversa	E	Plant	PARO	I	Makua Military Reservation	н	Onsite	Y—C
	Sanicula purpurea	E	Plant	PARO	I	Kawailoa TA	HI	Onsite	N
	''	E	Plant	PARO	I	Schofield Barracks	НІ	Onsite	N
	Schiedea hookeri	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	Y—С
		E	Plant	PARO		Schofield Barracks	HI	Onsite	N

COMMON NAME	SCIENTIFIC NAME	STATUS	CATEGORY	COMMAND	FWS REGION	INSTALLATION	STATE	ONSITE/ CONTIGUOUS	CRITICAL Habitat
No common name	Schiedea kaalae	E	Plant	PARO	I	Makua Military Reservation	НІ	Onsite	У—С
		E	Plant	PARO	I	Schofield Barracks	н	Onsite	N
	Schiedea nuttallii	E	Plant	PARO	I	Makua Military Reservation	н	Onsite	Ү—С
		E	Plant	PARO	I	Schofield Barracks	н	Onsite	N
	Silene hawaiiensis	T	Plant	PARO	I	Pohakuloa TA	HI	Onsite	N
	Silene lanceolata	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	N
		E	Plant	PARO	I	Pohakuloa TA	Н	Onsite	N
	Spermolepis hawaiiensis	E	Plant	ARNG	I	Fort Ruger	НІ	Onsite	Y—0
		E	Plant	PARO	I	Makua Military Reservation	Н	Onsite	Ү—С
		E	Plant	PARO	I	Pohakuloa TA	Н	Onsite	N
	Stenogyne angustifolia	E	Plant	PARO	ı	Pohakuloa TA	Н	Onsite	N
	Stenogyne kanehoana	E	Plant	PARO	ı	Schofield Barracks	н	Onsite	N
	Tetramolopium filiforme	E	Plant	PARO	1	Makua Military Reservation	н	Onsite	N
	Vigna o-wahuensis	E	Plant	PARO	1	Pohakuloa TA	н	Onsite	N
	Viola oahuensis	E	Plant	PARO	i	Kawailoa TA	HI	Onsite	N
		E	Plant	PARO	i	Schofield Barracks	HI	Onsite	N
Oha	Delissea subcordata	E	Plant	PARO	<u> </u>	Makua Military Reservation	HI	Onsite	Y—C
V.II.	Jones June 1	E	Plant	PARO	<u> </u>	Schofield Barracks	HI	Onsite	N N
Ohai	Sesbania tomentosa	E	Plant	ARNG	· ·	Kanaio Wets	HI	Onsite	N N
Ohe	Joinvillea ascendens ascendens	C	Plant	PARO	'	Kawailoa TA	'''	Onsite	N N
one	Johnshica ascendens ascendens	С	Plant	PARO		Schofield Barracks	HI	Onsite	N N
Ohe`ohe	Tetraplasandra gymnocarpa	E	Plant	PARO	<u>'</u>	Kahuku TA	HI	Onsite	N
One one	retrapiasanura gynniocarpa	E	Plant	PARO	'	Kawailoa TA	''' HI	Onsite	N
		E	Plant	PARO	'	Schofield Barracks	HI	Onsite	N
Opuhe	Urera kaalae	E	Plant	PARO	1	Schofield Barracks	HI	Onsite	N N
·		Ī			1				N N
Otter, southern sea	Enhydra lutris nereis		Mammal	USAR- 63rd RRC	1	LTA—Moss Landing	CA	Onsite	
Owl, Mexican spotted	Strix occidentalis lucida	Ţ	Bird	ARNG	2	Camp Navajo	AZ	Onsite	Y—0
		Ī	Bird	WEST	6	Fort Carson	CO	Contiguous	N
		Ţ	Bird	WEST	2	Fort Huachuca	AZ	Onsite	N
		T	Bird	WEST	2	White Sands Missile Range	NM	Contiguous	N
Owl, northern spotted	Strix occidentalis caurina	T	Bird	ARNG	<u> </u>	Corvallis/Camp Adair	OR	Contiguous	N
		T	Bird	ARNG	<u> </u>	MTA Camp Rilea	OR	Contiguous	N
		T	Bird	USAR- 70th RRC	l .	LTA-AVN TNG Area (Weyerhaeuser)	WA	Onsite	Y—0
		T	Bird	WEST	I	Fort Lewis	WA	Contiguous	Y—0**
Paintbrush, golden	Castilleja levisecta	T	Plant	WEST	I	Fort Lewis	WA	Contiguous	N
Palila (honeycreeper)	Loxioides bailleui	E	Bird	PARO	I	Pohakuloa TA	HI	Contiguous	Y—0
Palo de rosa	Ottoschulzia rhodoxylon	E	Plant	SERO	4	Fort Buchanan	PR	Onsite	N
Pamakani	Viola chamissoniana ssp. chamissoniana	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	Н	Onsite	N
Pamakani, Mauna Kea	Tetramolopium arenarium var. arenarium	E	Plant	PARO	I	Pohakuloa TA	HI	Onsite	N
Panther, Florida	Puma concolor coryi	E	Mammal	ARNG	4	MTC Camp Blanding	FL	Onsite	N
Pauoa	Ctenitis squamigera	E	Plant	PARO	I	Makua Military Reservation	HI	Onsite	N
		E	Plant	PARO	I	Schofield Barracks	HI	Onsite	N
Pelican, brown (Entire pop, except	Pelecanus occidentalis	E	Bird	ARNG	I	MTA Camp Rilea	OR	Contiguous	N
U.S. Atlantic Coast, FL, AL)		E	Bird	USAR-63rd RRC	I	LTA-Moss Landing	CA	Onsite	N
		E	Bird	USAR- 63rd RRC	I	AMSA 13 (M), Mare Isle	CA	Onsite	N
		E	Bird	WEST	2	White Sands Missile Range	NM	Onsite	N
Pennyroyal, Todsen's	Hedeoma todsenii	E	Plant	WEST	2	White Sands Missile Range	NM	Onsite	Y—0
Pine snake, Louisiana	Pituophis ruthveni	С	Reptile	SERO	4	Fort Polk	LA	Onsite	N
Pink, swamp	Helonias bullata	T	Plant	NERO	5	Fort AP Hill	VA	Onsite	N
Plover, piping	Charadrius melodus	T	Bird	ARNG	6	Camp Grafton	ND	Contiguous	N
, i i o		T	Bird	ARNG	5	Sea Girt	NJ	Onsite	N
		T	Bird	ARNG	6	TS Garrison	ND ND	Contiguous	N
		T T	Bird Bird	ARNG ARNG	6	TS Garrison TS Williston	ND ND	Contiguous Contiguous	N N

COMMON NAME	SCIENTIFIC NAME	STATUS	CATEGORY	COMMAND	FWS REGION	INSTALLATION	STATE	ONSITE/ CONTIGUOUS	CRITICAL Habitat
Plover, western snowy	Charadrius alexandrinus nivosus	T	Bird	ARNG	I	MTA Camp Rilea	OR	Contiguous	N
		T	Bird	USAR- 63rd RRC	I	LTA-Moss Landing	CA	Onsite	N
Po`e	Portulaca sclerocarpa	E	Plant	PARO	I	Pohakuloa TA	НІ	Onsite	N
Pocket gopher, Mazama	Thomomys mazama	С	Mammal	WEST	I	Fort Lewis	WA	Onsite	N
Pogonia, small whorled	Isotria medeoloides	T	Plant	ARNG	5	Auburn TS/OMS 2	ME	Onsite	N
, and the second		ī	Plant	ARNG	5	NHNG Training Center	NH	Onsite	N
		ī	Plant	NERO	5	Fort AP Hill	VA	Onsite	N
		ī	Plant	NERO	5	Fort Belvoir	VA	Onsite	N
Popolo ku mai	Solanum incompletum	E	Plant	PARO	ı	Pohakuloa TA	н	Onsite	N
Potato-bean, Price's	Apios priceana	T	Plant	SERO	4	Redstone Arsenal	AL	Onsite	N
Pu`uka`a	Cyperus trachysanthos	E	Plant	ARNG	1	Fort Ruger	н	Onsite	Y—0
	-,,	E	Plant	PARO	i	Dillingham Military Reservation	HI	Contiguous	N
Pupu kuahiwi	Achatinella apexfulva	E	Snail	PARO	ı	Kawailoa TA	HI	Onsite	N
	Achatinella bulimoides	E	Snail	PARO	ı	Kawailoa TA	HI	Onsite	N N
	Achatinella byronii	E	Snail	PARO	ı ı	Kawailoa TA	HI	Onsite	N N
	Activities by to this	E	Snail	PARO	ı ı	Schofield Barracks	HI	Onsite	N N
	Achatinella curta	E	Snail	PARO	'	Kahuku TA	HI	Onsite	N N
	ACHAUHEHA CURTA	E	Snail	PARO	ı	Kawailoa TA	HI	Onsite	N N
	Achatinella lila	E	Snail	PARO	1	Kawailoa TA	HI HI	Onsite	N N
	Achatinella livida		Snail	PARO	<u>'</u>	Kawailoa TA	HI		N N
		E			!			Onsite	
	Achatinella mustelina	E	Snail	PARO	!	Makua Military Reservation	HI	Onsite	N N
		E	Snail	PARO	l	Schofield Barracks	HI	Onsite	N
	Achatinella pulcherrima	E	Snail	PARO	!	Kawailoa TA	HI	Onsite	N
	Achatinella sowerbyana	E	Snail	PARO	l	Kahuku TA	HI	Onsite	N
		E	Snail	PARO	l	Kawailoa TA	HI	Onsite	N
		E	Snail	PARO	l l	Schofield Barracks	HI	Onsite	N
Quillwort, Louisiana	Isoetes Iouisianensis	E	Plant	ARNG	4	MTA Camp Shelby	MS	Onsite	N
Rabbit, New England cottontail	Sylvilagus transitionalis	С	Mammal	ARNG	5	Hollis Plains TS	ME	Onsite	N
Rhododendron, Chapman	Rhododendron chapmanii	E	Plant	ARNG	4	MTC Camp Blanding	FL	Onsite	N
Salamander, California tiger	Ambystoma californiense	T	Amphibian	WEST	I	Fort Hunter Liggett	CA	Onsite	N
		E	Amphibian	WEST	I	U.S. Army CSTC And Camp Parks	CA	Onsite	N
Salamander, flatwoods	Ambystoma cingulatum	T	Amphibian	SERO	4	Fort Stewart	GA	Onsite	N
Salamander, Sonoran tiger	Ambystoma tigrinum stebbinsi	E	Amphibian	WEST	2	Fort Huachuca	AZ	Onsite	N
Salmon, chinook (CA, Sacramento River-	Oncorhynchus tshawytscha	T	Fish	USAR- 63rd RRC	I	AMSA 13 (M), Mare Isle	CA	Onsite	N
winter run)									
Salmon, chinook (T=WA) naturally spawned populations in the Columbia R. tributaries upstream of Rock Island Dam & downstream of Chief Joseph Dam)		T	Fish	WEST	l	Yakima Training Center	WA	Onsite	N
Salmon, chinook (T=WA) natural populations from rivers & streams flowing into Puget Sound)		T	Fish	USAR- 70th RRC	I	Pier 23 USARC	WA	Onsite	N
Salmon, chinook (T=WA) natural populations from rivers & streams flowing into Puget Sound)		ī	Fish	WEST	I	Fort Lewis	WA	Onsite	N
Schiedea, diamond head	Schiedea adamantis	E	Plant	ARNG	I	Fort Ruger	HI	Onsite	N
Sea turtle, green	Chelonia mydas	T	Reptile	SERO	4	Military Ocean Terminal Sunny Point	NC	Contiguous	N
Sea turtle, Kemp's ridley	Lepidochelys kempii	E	Reptile	SERO	4	Military Ocean Terminal Sunny Point	NC	Contiguous	N
Sea turtle, leatherback	Dermochelys coriacea	E	Reptile	SERO	4	Military Ocean Terminal Sunny Point	NC	Contiguous	N
Sea turtle, loggerhead	Caretta caretta	T	Reptile	SERO	4	Military Ocean Terminal Sunny Point	NC	Contiguous	N
Sea-lion, Steller (=northern)	Eumetopias jubatus	T	Mammal	ARNG		MTA Camp Rilea	OR	Contiguous	N
Shiner, Topeka	Notropis topeka	E	Fish	WEST	6	Fort Riley	KS	Onsite	N N
Shrimp, Alabama cave	Palaemonias alabamae	E	Crustacean	SERO	4	Redstone Arsenal	AL	Onsite	N N
Skipper, Carson wandering	Pseudocopaeodes eunus obscurus	E	Insect	AMC	<u>'</u> I	Sierra AD	CA	Contiguous	N N
Skipper, Mardon	Polites mardon	C	Insect	WEST	<u>'</u> 	Fort Lewis	WA	Onsite	N N
JAIPPEI, HAIGUH	i viites maidum		msect	11121	1	TOIL LEWIS	1114	Olisite	

COMMON NAME	SCIENTIFIC NAME	SUTATUS	CATEGORY	COMMAND	FWS REGION	INSTALLATION	STATE	ONSITE/ CONTIGUOUS	CRITICAL Habitat
Skullcap, large-flowered	Scutellaria montana	T	Plant	ARNG	4	Catoosa Range/TS	TN	Onsite	N
Slickspot peppergrass****	Lepidium Papilliferum	PE	Plant	ARNG	I	Orchard Range TS Boise	ID	Onsite	N
Smelt, delta	Hypomesus transpacificus	T	Fish	USAR- 63rd RRC	I	AMSA 13 (M), Mare Isle	CA	Contiguous	N
Snail, Morro shoulderband	Helminthoglypta walkeriana	E	Snail	ARNG	I	CTC Camp San Luis Obispo	CA	Contiguous	N
Snake, black pine	Pituophis melanoleucus lodingi	С	Reptile	ARNG	4	MTA Camp Shelby	MS	Onsite	N
Snake, eastern indigo	Drymarchon corais couperi	T	Reptile	ARNG	4	MTC Camp Blanding	FL	Onsite	N
		T	Reptile	SERO	4	Fort Stewart	GA	Onsite	N
Spikedace	Meda fulgida	T	Fish	WEST	2	Fort Huachuca	AZ	Contiguous	N
Spineflower, Monterey	Chorizanthe pungens var. pungens	T	Plant	USAR- 63rd RRC	I	Marina USARC/OMS/AMSA 12 S-S	CA	Onsite	N
·		T	Plant	WEST	ı	Presidio of Monterey	CA	Onsite	Y—0
Spineflower, San Fernado Valley	Chorizanthe parryi fernandina	С	Plant	USAR- 63rd RRC	I	Tustin USARC	CA	Onsite	N
Springsnail, Huachuca	Pyrgulopsis thompsoni	С	Snail	WEST	2	Fort Huachuca	AZ	Onsite	N
Steelhead (Central California Coastal)	Oncorhynchus mykiss	T	Fish	USAR- 63rd RRC	ı	AMSA 13 (M), Mare Isle	CA	Contiguous	N
Steelhead (Central Valley California)		ī	Fish	USAR- 63rd RRC	Ī	AMSA 13 (M), Mare Isle	CA	Contiguous	N
Steelhead (Lower Columbia River)	1	ī	Fish	WEST	l i	Fort Lewis	WA	Onsite	N N
Steelhead (Middle Columbia River)		T	Fish	WEST	i	Yakima Training Center	WA	Onsite	N
Steelhead (Southern California)		E	Fish	ARNG	i	CTC Camp San Luis Obispo	CA	Onsite	N N
steemeau (southern camorina)		E	Fish	ARNG	· ·	MTC-H Camp Roberts	CA	Onsite	N
Steelhead (Upper Columbia River)	-	E	Fish	WEST		Yakima Training Center	WA	Onsite	N N
Stilt, Hawaiian (=ae`o)	Uimantanus mavisanus knudsani	E	Bird	ARNG	'	Kekaha Wets	HI		N
Juli, nawahah (-ae 0)	Himantopus mexicanus knudseni	E	Bird	ARNG	<u>'</u>	Ukumehame Wets	HI	Onsite	N
Carolia anno d	M				1			Onsite	
Stork, wood	Mycteria americana	E	Bird	ARNG	4	MTC Camp Blanding	FL	Onsite	N N
		E	Bird	SERO	4	Fort Benning	GA	Onsite	N
		E	Bird	SERO	4	Fort Gordon	GA	Contiguous	N
		E	Bird	SERO	4	Fort Stewart	GA	Onsite	N
Sturgeon, green	Acipenser medirostris	T	Fish	USAR- 63rd RRC	l l	AMSA 13 (M), Mare Isle	CA	Contiguous	N
Sturgeon, pallid	Scaphirhynchus albus	E	Fish	WEST	6	Fort Leavenworth	KS	Onsite	N
Sturgeon, shortnose	Acipenser brevirostrum	E	Fish	ARNG	5	Camp Smith CSMS A	NY	Contiguous	N
		E	Fish	NERO	5	Aberdeen Proving Ground	MD	Onsite	N
		E	Fish	NERO	5	West Point Military Reservation	NY	Contiguous	N
		E	Fish	SERO	4	Fort Stewart	GA	Onsite	N
Sumac, Michaux's	Rhus michauxii	E	Plant	ARNG	5	Fort Pickett ARNG MTC	VA	Onsite	N
		E	Plant	SERO	4	Fort Bragg	NC	Onsite	N
Sunburst, Hartweg's golden	Pseudobahia bahiifolia	E	Plant	USAR- 63rd RRC	I	63rd RRC	CA	Contiguous	N
Sunburst, San Joaquin adobe	Pseudobahia peirsonii	T	Plant	USAR- 63rd RRC	I	Leymel Hall USARC	CA	Contiguous	N
Tarplant, Santa Cruz	Holocarpha macradenia	T	Plant	ARNG	I	Santa Cruz Armory	CA	Onsite	Y—0
Tern, California least	Sterna antillarum browni	E	Bird	USAR- 63rd RRC	I	AMSA 13 (M), Mare Isle	CA	Onsite	N
		E	Bird	USAR- 63rd RRC	I	PFC L.T. Baccigleiri Hall AFRC	CA	Contiguous	N
Tern, least	Sterna antillarum	E	Bird	ARNG	3	HQ STARC—MO	MO	Contiguous	N
		E	Bird	WEST	6	Fort Riley	KS	Onsite	N
		E	Bird	WEST	2	White Sands Missile Range	NM	Onsite	N
Thistle, Chorro Creek bog	Cirsium fontinale var.obispoense	E	Plant	ARNG	I	CTC Camp San Luis Obispo	CA	Onsite	N
Toad, arroyo	Bufo californicus	E	Amphibian	WEST	I	Fort Hunter Liggett	CA	Onsite	N
Tortoise, desert	Gopherus agassizii	T	Reptile	ARNG	I	Clark County Complex	NV	Onsite	N
		T(SA)	Reptile	ARNG	2	Florence Military Reservation	AZ	Onsite	N
		T	Reptile	USAR- 63rd RRC	ı	Victorville USARC/ASF	CA	Contiguous	N
		T	Reptile	WEST	I	National Training Center and Fort Irwin	CA	Onsite	Y—0
Tortoise, gopher	Gopherus polyphemus	T	Reptile	ARNG	4	MTA Camp Shelby	MS	Onsite	N
Trillium, relict	Trillium reliquum	E	Plant	SERO	4	Fort Benning	GA	Onsite	N N

COMMON NAME	SCIENTIFIC NAME	STATUS	CATEGORY	COMMAND	FWS REGION	INSTALLATION	STATE	ONSITE/ CONTIGUOUS	CRITICAL Habitat
Trout, bull	Salvelinus confluentus	Ī	Fish	USAR- 70th RRC	I	Pier 23 USARC	WA	Onsite	N
		T	Fish	WEST	I	Fort Lewis	WA	Onsite	N
		T	Fish	WEST	I	Yakima Training Center	WA	Contiguous	N
Trout, Lahontan cutthroat	Oncorhynchus clarki henshawi	E	Fish	AMC	I	Hawthorne AD	NV	Contiguous	N
Turtle, bog (Entire U.S. except, GA, NC, SC, TN, VA.)	Clemmys muhlenbergii	Ţ	Reptile	NERO	5	Picatinny Arsenal	NJ	Contiguous	N
Vireo, black-capped	Vireo atricapilla	E	Bird	ARNG	2	Camp Bowie (State)	TX	Onsite	N
		E	Bird	WEST	2	Fort Hood	TX	Onsite	N
		E	Bird	WEST	2	Fort Sam Houston	TX	Onsite	N
		E	Bird	WEST	2	Fort Sill	OK	Onsite	N
Vireo, least Bell's	Vireo bellii pusillus	E	Bird	ARNG	I	CTC Camp San Luis Obispo	CA	Onsite	N
		E	Bird	ARNG	I	MTC-H Camp Roberts	CA	Contiguous	N
		E	Bird	WEST	I	Fort Hunter Liggett	CA	Contiguous	N
Warbler, golden-cheeked	Dendroica chrysoparia	E	Bird	ARNG	2	Camp Mabry	TX	Onsite	N
		E	Bird	WEST	2	Fort Hood	TX	Onsite	N
		E	Bird	WEST	2	Fort Sam Houston	TX	Onsite	N
Warbler, Kirtland's	Dendroica kirtlandii	E	Bird	ARNG	3	MTC-H Camp Grayling	MI	Onsite	N
Water-umbel, Huachuca	Lilaeopsis schaffneriana ssp.recurva	E	Plant	WEST	2	Fort Huachuca	AZ	Onsite	Y—0
Whale, beluga	Delphinapterus leucas	PE	Mammal	PARO	7	Fort Richardson	AK	Onsite	N
Whale, southern resident killer	Orcinus orca	E	Mammal	USAR- 70th RRC	I	Pier 23 USARC	WA	Contiguous	N
		E	Mammal	WEST	I	Fort Lewis	WA	Contiguous	N
Wolf, gray (MN only)***	Canis lupus	T	Mammal	ARNG	3	Camp Ripley	MN	Onsite	N
Wolf, gray***	·	E	Mammal	WEST	3	Fort McCoy	WI	Onsite	N
Woodpecker, red-cockaded	Picoides borealis	E	Bird	ARNG	4	Leesburg TS	SC	Onsite	N
·		E	Bird	ARNG	4	MTA Camp Shelby	MS	Contiguous	N
		E	Bird	ARNG	4	MTC Camp Blanding	FL	Onsite	N
		E	Bird	ARNG	4	SMR Camp Beauregard	LA	Contiguous	N
		E	Bird	SERO	4	Fort Benning	GA	Onsite	N
		E	Bird	SERO	4	Fort Bragg	NC	Onsite	N
		E	Bird	SERO	4	Fort Gordon	GA	Onsite	N
		E	Bird	SERO	4	Fort Jackson	SC	Onsite	N
		E	Bird	SERO	4	Fort Polk	LA	Onsite	N
		E	Bird	SERO	4	Fort Stewart	GA	Onsite	N
		E	Bird	SERO	4	Military Ocean Terminal Sunny Point	NC	Onsite	N
Wooly-threads, San Joaquin	Monolopia congdonii	E	Plant	USAR- 63rd RRC	ı	Leymel Hall USARC	CA	Contiguous	N
Yadon's piperia	Piperia Yadonii	E	Plant	WEST	1	Presidio of Monterey	CA	Onsite	N

[&]quot;Y-O"—critical habitat on installation

 $[\]hbox{``Y-C''}-critical\ habitat\ contiguous\ to\ installation,\ but\ within\ action\ area}\\$

^{*} Delisted 8 August 2007

^{**} Critical habitat redesignated (13 August 2008). Critical habitat no longer designated on installation.

^{***} Delisted 12 March 2007; listing reinstated by court order

^{****} Proposed rule withdrawn 12 January 2007

[#] Non-essential experimental population



APPENDIX D: INSTALLATIONS WITH T&E SPECIES ONSITE

AMC		STATE	COMMAND	INSTALLATION	STATE
AMC	Anniston AD	AL	NERO	Fort A.P. Hill	VA
	Blue Grass AD	КҮ		Fort Belvoir	VA
	Hawthorne AD	NV		Fort Dix	NJ
	Holston AAP	TN		Fort Drum	NY
	Iowa AAP	IA		Fort Eustis	VA
	Lone Star AAP	TX		Picatinny Arsenal	NJ
	McAlester AAP	OK		U.S. Army Research Laboratory Adelphi	MD
Newp	port Chemical Depot	IN		West Point Military Reservation	NY
ARNG (Clinton)	Truman Reservoir T.S.	MO	PARO	Kahuku TA	HI
A	Suburn TS/OMS 2	ME		Kawailoa TA	HI
	Camp Ashland	NE		Makua Military Reservation	HI
	Camp Atterbury	IN		Pohakuloa TA	HI
	ımp Bowie (State)	TX		Schofield Barracks	HI
	Camp Gruber	OK	SERO	Fort Benning	GA
	Camp Mabry	TX		Fort Bragg	NC
	Camp Maxey	TX		Fort Buchanan	PR
	Camp Murray	WA		Fort Campbell	КҮ
	Camp Navajo	AZ		Fort Gordon	GA
	Camp Perry	ОН		Fort Jackson	SC
	Camp Ripley	MN		Fort Knox	КҮ
С	Catoosa Range/TS	TN		Fort Polk	LA
	rk County Complex	NV		Fort Stewart	GA
	rvallis/Camp Adair	OR		Military Ocean Terminal Sunny Point	NC
	amp San Luis Obispo	CA		Redstone Arsenal	AL
	ce Military Reservation	AZ	USAR-63rd RRC	AMSA 13 (M), Mare Isle	CA
	ee Maneuver Training CTR	AR		BT Collins Enclave	CA
	rt McClellan ARNG	AL		LTAMoss Landing	CA
Fort	Pickett ARNG MTC	VA		Marina USARC/OMS/AMSA 12 S-S	CA
	Fort Ruger	HI		LTA-AVN TNG Area (Weyerhaeuser)	WA
Hilo (Keaul	kaha Military Reservation)	HI		Pier 23 USARC	WA
	HQ STARC—MO	MO		Twinsburg USARC/AMSA #123	ОН
	Kanaio Wets	HI	WEST	Fort Bliss	TX
	Kekaha Wets	HI		Fort Hood	TX
	Kingwood	WV		Fort Huachuca	ΑZ
	Leesburg TS	SC		Fort Hunter Liggett	CA
LI LI	IL Aaron Strauss	MD		Fort Leavenworth	KS
	Macon TS	MO		Fort Lewis	WA
1	MTA Camp Rilea	OR		Fort Leonard Wood	МО
	TTA Camp Shelby	MS		Fort McCoy	WI
	TC Camp Blanding	FL		Fort Riley	KS
	C-H Camp Grayling	MI		Fort Sam Houston	TX
	C-H Camp Guernsey	WY		Fort Sill	OK
	C-H Camp Roberts	CA		National Training Center and Fort Irwin	CA
	NG Training Center	NH		Pinon Canyon	СО
	1S 10B/St. George	UT		Presidio of Monterey	CA
	anta Cruz Armory	CA		Rock Island Arsenal	IL
	Sea Girt	NJ		U.S. Army CSTC and Camp Parks	CA
State	Military Reservation	NH		White Sands Missile Range	NM
	kumehame Wets	HI		Yakima Training Center	WA
	leen Proving Ground	MD		-	





APPENDIX E: T&E SPECIES FOUND ON ARMY INSTALLATIONS

SCIENTIFIC NAME	COMMON NAME	STATUS
Abutilon sandwicense	No common name	E
Achatinella apexfulva	Pupu kuahiwi	E
Achatinella bulimoides	Pupu kuahiwi	E
Achatinella byronii	Pupu kuahiwi	E
Achatinella curta	Pupu kuahiwi	E
Achatinella lila	Pupu kuahiwi	E
Achatinella livida	Pupu kuahiwi	E
Achatinella mustelina	Pupu kuahiwi	E
Achatinella pulcherrima	Pupu kuahiwi	E
Achatinella sowerbyana	Pupu kuahiwi	E
Acipenser brevirostrum	Sturgeon, shortnose	E
Alectryon macrococcus	Mahoe	E
Alligator mississippiensis	Alligator, American	T(SA)
Alsinidendron obovatum	No common name	E
Alsinidendron trinerve	No common name	E
Amaranthus pumilus	Amaranth, seabeach	Ţ
Ambystoma californiense	Salamander, California tiger	Е/Т
Ambystoma cingulatum	Salamander, flatwoods	Ī
Ambystoma tigrinum stebbinsi	Salamander, Sonoran tiger	E
Anas wyvilliana	Duck, Hawaiian (=koloa)	E
Aphelocoma coerulescens	Jay, Florida scrub	Ī
Apios priceana	Potato-bean, Price's	Ī
Arctomecon humilis	Bear-poppy, Dwarf	E
Asplenium fragile var.insulare	No common name	E
Astragalus jaegerianus	Milk-vetch, Lane Mountain	E
Bonamia menziesii	No common name	E
Brachyramphus marmoratus marmoratus	Murrelet, marbled	Ī
Branchinecta lynchi	Fairy shrimp, vernal pool	Ī
Branta sandvicensis	Goose, Hawaiian (=nene)	E
Bufo californicus	Toad, arroyo	E E
Buteo solitarius	Hawk, Hawaiian (='lo)	E E
Canis lupus	Wolf, gray***	<u>-</u> Е/Т
Cenchrus agrimonioides	Kamanomano	E
Chamaesyce celastroides var. kaenana	Akoko	<u>-</u> E
Chamaesyce herbstii	Akoko	 E
Chamaesyce rockii	Akoko	E
Charadrius alexandrinus nivosus	Plover, western snowy	Ī
Charadrius melodus	Plover, piping	T
Chasiempis sandwichensis ibidis	Elepaio, Oahu	<u> </u>
Chlorogalum purpureum	Amole, purple	Ī
Chorizanthe pungens var. pungens	Spineflower, Monterey	T
Cicurina madla	Madla's cave meshweaver	E E
Cirsium fontinale var.obispoense	Thistle, Chorro Creek bog	E
Coryphantha sneedii	Cactus, Sneed pincushion	E
So. / Prisingly Street	Caccas, Succe pincesinon	-

SCIENTIFIC NAME	COMMON NAME	STATUS
Ctenitis squamigera	Pauoa	E
Cyanea acuminata	Haha	E
Cyanea crispa	Haha	E
Cyanea grimesiana ssp. obatae	Haha	E
Cyanea humboldtiana	Haha	E
Cyanea koolauensis	Haha	E
Cyanea longiflora	Haha	E
Cyanea st-johnii	Haha	E
Cyanea superba	Haha	E
Cyperus trachysanthos	Pu`uka`a	E
Cyrtandra dentata	Ha`iwale	E
Cyrtandra subumbellata	Ha`iwale	E
Cyrtandra viridiflora	Ha`iwale	E
Delissea subcordata	Oha	E
Dendroica chrysoparia	Warbler, golden-cheeked	E
Dendroica kirtlandii	Warbler, Kirtland's	E
Diellia falcata	No common name	E
Drymarchon corais couperi	Snake, eastern indigo	Ţ
Dubautia herbstobatae	Na`ena`e	E
Echinacea laevigata	Coneflower, smooth	E
Echinocereus fendleri	Cactus, Kuenzler hedgehog	E
Enhydra lutris nereis	Otter, southern sea	Ţ
Epicrates inornatus	Boa, Puerto Rican	E
Eugenia koolauensis	Nioi	E
Euphorbia haeleeleana	Akoko	E
Falco femoralis septentrionalis	Falcon, northern Aplomado	E
Flueggea neowawraea	Mehamehame	E
Fulica americana alai	Coot, Hawaiian (=`alae-ke`oke`o)	E
Gallinula chloropus sandvicensis	Moorhen, Hawaiian Common	E
Gardenia mannii	Nanu	E
Gilia tenuiflora ssp.arenaria	Gilia, Monterey	E
Gopherus agassizii	Tortoise, desert	T/T(SA)
Gopherus polyphemus	Tortoise, gopher	Ţ
Gouania vitifolia	No common name	E
Grus americana	Crane, whooping	E
Gymnogyps californianus	Condor, California	E
Haliaeetus leucocephalus	Eagle, bald*	Ţ
Haplostachys haplostachya	Honohono	E
Hedeoma todsenii	Pennyroyal, Todsen's	E
Hedyotis coriacea	Kio`ele	E
Hedyotis degeneri	No common name	E
Hedyotis parvula	No common name	E
Helonias bullata	Pink, swamp	Ţ
Hesperomannia arborescens	No common name	E
Hesperomannia arbuscula	No common name	E

SCIENTIFIC NAME	COMMON NAME	STATUS
Abutilon sandwicense	No common name	E
Achatinella apexfulva	Pupu kuahiwi	E
Achatinella bulimoides	Pupu kuahiwi	E
Achatinella byronii	Pupu kuahiwi	E
Achatinella curta	Pupu kuahiwi	E
Achatinella lila	Pupu kuahiwi	E
Achatinella livida	Pupu kuahiwi	E
Achatinella mustelina	Pupu kuahiwi	E
Achatinella pulcherrima	Pupu kuahiwi	E
Achatinella sowerbyana	Pupu kuahiwi	E
Acipenser brevirostrum	Sturgeon, shortnose	E
Alectryon macrococcus	Mahoe	E
Alligator mississippiensis	Alligator, American	T(SA)
Alsinidendron obovatum	No common name	E
Alsinidendron trinerve	No common name	E
Amaranthus pumilus	Amaranth, seabeach	Т
Ambystoma californiense	Salamander, California tiger	E/T
Ambystoma cingulatum	Salamander, flatwoods	Т
Ambystoma tigrinum stebbinsi	Salamander, Sonoran tiger	E
Anas wyvilliana	Duck, Hawaiian (=koloa)	E
Aphelocoma coerulescens	Jay, Florida scrub	Т
Apios priceana	Potato-bean, Price's	Т
Arctomecon humilis	Bear-poppy, Dwarf	E
Asplenium fragile var.insulare	No common name	E
Astragalus jaegerianus	Milk-vetch, Lane Mountain	E
Bonamia menziesii	No common name	E
Brachyramphus marmoratus marmoratus	Murrelet, marbled	Т
Branchinecta lynchi	Fairy shrimp, vernal pool	Т
Branta sandvicensis	Goose, Hawaiian (=nene)	E
Bufo californicus	Toad, arroyo	E
Buteo solitarius	Hawk, Hawaiian (='lo)	E
Canis lupus	Wolf, gray***	E/T
Cenchrus agrimonioides	Kamanomano	E
Chamaesyce celastroides var. kaenana	Akoko	E
Chamaesyce herbstii	Akoko	E
Chamaesyce rockii	Akoko	E
Charadrius alexandrinus nivosus	Plover, western snowy	T
Charadrius melodus	Plover, piping	Т
Chasiempis sandwichensis ibidis	Elepaio, Oahu	E
Chlorogalum purpureum	Amole, purple	Ţ
Chorizanthe pungens var. pungens	Spineflower, Monterey	Ţ
Chorizanthe robusta (incl. vars. robusta & hartwegii)	Spineflower, robust (incl. Scotts Valley)	E
Cicurina madla	Madla's cave meshweaver	E
Cirsium fontinale var.obispoense	Thistle, Chorro Creek bog	E
Coryphantha sneedii	Cactus, Sneed pincushion	E

		SUTATIS
Ctenitis squamigera	Pauoa	E
Cyanea acuminata	Haha	E
Cyanea crispa	Haha	E
Cyanea grimesiana ssp. obatae	Haha	E
Cyanea humboldtiana	Haha	E
Cyanea koolauensis	Haha	E
Cyanea longiflora	Haha	E
Cyanea st-johnii	Haha	E
Cyanea superba	Haha	E
Cyperus trachysanthos	Pu`uka`a	E
Cyrtandra dentata	Ha`iwale	E
Cyrtandra subumbellata	Ha`iwale	E
Cyrtandra viridiflora	Ha`iwale	E
Delissea subcordata	Oha	E
Dendroica chrysoparia	Warbler, golden-cheeked	E
Dendroica kirtlandii	Warbler, Kirtland's	E
Diellia falcata	No common name	E
Drymarchon corais couperi	Snake, eastern indigo	Ţ
Dubautia herbstobatae	Na`ena`e	E
Echinacea laevigata	Coneflower, smooth	E
Echinocereus fendleri	Cactus, Kuenzler hedgehog	E
Enhydra lutris nereis	Otter, southern sea	Ţ
Epicrates inornatus	Boa, Puerto Rican	E
Eugenia koolauensis	Nioi	E
Euphorbia haeleeleana	Akoko	E
Falco femoralis septentrionalis	Falcon, northern Aplomado	E
Flueggea neowawraea	Mehamehame	E
Fulica americana alai	Coot, Hawaiian (=`alae-ke`oke`o)	E
Gallinula chloropus sandvicensis	Moorhen, Hawaiian Common	E
Gardenia mannii	Nanu	E
Gilia tenuiflora ssp.arenaria	Gilia, Monterey	E
Gopherus agassizii	Tortoise, desert	T/T(SA)
Gopherus polyphemus	Tortoise, gopher	Ţ
Gouania vitifolia	No common name	E
Grus americana	Crane, whooping	E
Gymnogyps californianus	Condor, California	E
Haliaeetus leucocephalus	Eagle, bald*	Ţ
Haplostachys haplostachya	Honohono	E
Hedeoma todsenii	Pennyroyal, Todsen's	E
Hedyotis coriacea	Kio`ele	E
Hedyotis degeneri	No common name	E
Hedyotis parvula	No common name	E
Helonias bullata	Pink, swamp	Ţ
Hesperomannia arborescens	No common name	E
Hesperomannia arbuscula	No common name	E

SCIENTIFIC NAME	COMMON NAME	STATUS
Hibiscus brackenridgei	Ma`o hau hele	E
Himantopus mexicanus knudseni	Stilt, Hawaiian (=ae`o)	E
Holocarpha macradenia	Tarplant, Santa Cruz	Ţ
Howellia aquatilis	Howellia, water	Ţ
Isodendrion hosakae	Aupaka	E
lsodendrion longifolium	Aupaka	T
Isoetes louisianensis	Quillwort, Louisiana	E
lsotria medeoloides	Pogonia, small whorled	Ţ
Labordia cyrtandrae	Kamakahala	E
Lasiurus cinereus semotus	Bat, Hawaiian hoary	E
Lepidium arbuscula	Anaunau	E
Leptonycteris curasoae yerbabuenae	Bat, lesser long-nosed	E
Lilaeopsis schaffneriana ssp.recurva	Water-umbel, Huachuca	E
Lipochaeta tenuifolia	Nehe	E
Lipochaeta venosa	No common name	E
Lobelia gaudichaudii ssp. koolauensis	No common name	E
Lobelia niihauensis	Haha/No common name	E
Lobelia oahuensis	No common name	E E
Lupinus sulphureus kincaidii	Lupine, Kincaid's	E E
Lycaeides melissa samuelis	Butterfly, Karner blue	E E
<u> </u>	· · · · · · · · · · · · · · · · · · ·	E E
Lysimachia asperulaefolia Manduca blackburni	Loosestrife, rough-leaved	E
	Moth, Blackburn's sphinx	E E
Marshallia mohrii	Button, Mohr's Barbara	
Megalagrion leptodemus	Damselfly, crimson Hawaiian	Ī
Melicope lydgatei	Alani	E
Mycteria americana	Stork, wood	E .
Myotis grisescens	Bat, gray	E .
Myotis sodalis	Bat, Indiana	E
Myrsine juddii	Kolea	E
Neonympha mitchellii francisci	Butterfly, Saint Francis' satyr	E
Neraudia angulata	Ma'aloa	E
Neraudia Ovata	Maaloa	E
Nicrophorus americanus	Beetle, American burying (=giant carrion)	E
Nototrichium humile	Kulu`i	E
Notropis topeka	Shiner, Topeka	E
Oncorhynchus mykiss	Steelhead	E/T
Oncorhynchus tshawytscha	Salmon, chinook	Ī
Ottoschulzia rhodoxylon	Palo de rosa	E
Palaemonias alabamae	Shrimp, Alabama cave	E
Panicum niihauense	Lau `ehu	E
Panthera onca	Jaguar	E
Pelecanus occidentalis	Pelican, brown (Entire pop, except U.S. Atlantic Coast, FL, AL)	E
Percina rex	Logperch, Roanoke	E
Peucedanum sandwicense	Makou	Ţ
Phlegmariurus nutans	No common name	E
Phyllostegia hirsuta	No common name	E
Phyllostegia kaalaensis	No common name	E
Phyllostegia parviflora	No common name	E
Picoides borealis	Woodpecker, red-cockaded	E

SCIENTIFIC NAME	COMMON NAME	STATUS
Piperia Yadonii	Yadon's piperia	E
Plantago princeps	Kuahiwi laukahi	E
Portulaca sclerocarpa	Po`e	E
Pritchardia kaalae	Lo`ulu	E
Pteris lidgatei	No common name	E
Ptilimnium nodosum	Harperella	E
Puma concolor coryi	Panther, Florida	E
Rana aurora draytonii	Frog, California red-legged	Ţ
Rhadine exilis	Ground beetle	E
Rhadine infernalis	Ground beetle	E
Rhododendron chapmanii	Rhododendron, Chapman	E
Rhus michauxii	Sumac, Michaux's	E
Salvelinus confluentus	Trout, bull	Ţ
Sanicula mariversa	No common name	E
Sanicula purpurea	No common name	E
Scaphirhynchus albus	Sturgeon, pallid	E
Schiedea adamantis	Schiedea, diamond head	E
Schiedea hookeri	No common name	E
Schiedea kaalae	No common name	E
Schiedea nuttallii	No common name	E
Schwalbea americana	Chaffseed, American	E
Scutellaria montana	Skullcap, large-flowered	Ţ
Sesbania tomentosa	Ohai	E
Sidalcea nelsoniana	Checker-mallow, Nelson's	Ţ
Silene hawaiiensis	No common name	Ţ
Silene lanceolata	No common name	E
Solanum incompletum	Popolo ku mai	E
Solidago houghtonii	Goldenrod, Houghton's	Ţ
Spermolepis hawaiiensis	No common name	E
Speyeria zerene hippolyta	Butterfly, Oregon silverspot	T
Stenogyne angustifolia	No common name	E
Stenogyne kanehoana	No common name	E
Sterna antillarum	Tern, least	E
Sterna antillarum browni	Tern, California least	E
Strix occidentalis caurina	Owl, northern spotted	T
Strix occidentalis lucida	Owl, Mexican spotted	T
Tetramolopium arenarium var. arenarium	Pamakani, Mauna Kea	E
Tetramolopium filiforme	No common name	E
Tetraplasandra gymnocarpa	Ohe`ohe	E
Trifolium stoloniferum	Clover, running buffalo	E
Trillium reliquum	Trillium, relict	E
Urera kaalae	Opuhe	E
Vigna o-wahuensis	No common name	E
Viola chamissoniana ssp. chamissoniana	Pamakani	<u> </u>
Viola oahuensis	No common name	E
Vireo atricapilla	Vireo, black-capped	E
Vireo bellii pusillus	Vireo, least Bell's	E E
Vulpes macrotis mutica	Fox, San Joaquin kit	E E
Xyris tennesseensis	Grass, Tennessee yellow-eyed	E E
Zanthoxylum hawaiiense	A'e	E E
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		series) summar	izes the Army's threaten	ed and endanger	red species	s data for FY 2007. Data were obtained from	
various sources, including the Army Environmental Database - Environmental Quality, U.S. Fish and Wildlife Service, and Army commands and							
installations. Installation level data provide information on federally listed species occurrences onsite or contiguous to each installation.							
Species-level data list all installations on which species occur. Corresponding information on federal status, critical habitat, and threatened and							
endangered species expenditures is provided. Also included is information on species at risk and migratory birds.							
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