

**DEPARTMENT OF THE INTERIOR**

**Fish and Wildlife Service**

**50 CFR Part 17**

[Docket No. FWS-R1-ES-2022-0062; FXES11130900000C6-234-FF09E42000]

RIN 1018-BG77

**Endangered and Threatened Wildlife and Plants; Technical Corrections for 62 Wildlife and Plant Species on the Lists of Endangered and Threatened Wildlife and Plants**

**AGENCY:** Fish and Wildlife Service, Interior.

**ACTION:** Direct final rule.

**SUMMARY:** We, the U.S. Fish and Wildlife Service (Service), announce technical corrections for 62 wildlife and plant species under the Endangered Species Act of 1973, as amended (Act). These corrections include changes to scientific names of 11 wildlife species and 14 plant species due to taxonomic reclassification; changes to common names of 21 wildlife species and 13 plant species; and corrections to errors in scientific or common names, listing citations, or taxonomic heading placement for 4 wildlife species and 14 plant species. We are revising the List of Endangered and Threatened Wildlife and the List of Endangered and Threatened Plants (“the Lists”) to reflect the current scientifically accepted taxonomy and nomenclature of these species that occur in Idaho and the Pacific islands.

**DATES:** This rule is effective May 3, 2023 without further action, unless significant adverse comment is received by March 6, 2023. If significant adverse comment is received regarding taxonomic changes for any of these species, we will publish a timely

withdrawal of the relevant portions of the rule in the **Federal Register**.

**ADDRESSES:** You may submit comments by one of the following methods:

- *Electronically:* Go to the Federal eRulemaking Portal: <https://www.regulations.gov>. In the Search box, enter FWS-R1-ES-2022-0062, which is the docket number for this rulemaking. Then, click on the Search button. On the resulting page, in the Search panel on the left side of the screen, under the Document Type heading, click on the Rule box to locate this document. You may submit a comment by clicking on “Comment.”

- *By hard copy:* Submit comments by U.S. mail or hand-delivery to: Public Comments Processing, Attn: FWS-R1-ES-2022-0062, U.S. Fish and Wildlife Service, MS: PRB/3W, 5275 Leesburg Pike, Falls Church, VA 22041-3803.

See Public Comments in **SUPPLEMENTARY INFORMATION**, below, for more information about submitting comments.

**FOR FURTHER INFORMATION CONTACT:** Marilet Zablan, Program Manager for Restoration and Endangered Species Classification, U.S. Fish and Wildlife Service, Pacific Regional Office, Ecological Services, 911 NE 11th Avenue, Portland, OR 97232; telephone 503-231-6131. Individuals in the United States who are deaf, deafblind, hard of hearing, or have a speech disability may dial 711 (TTY, TDD, or TeleBraille) to access telecommunications relay services. Individuals outside the United States should use the relay services offered within their country to make international calls to the point-of-contact in the United States.

See Species-specific Inquiries and Information in **SUPPLEMENTARY INFORMATION**, below, for relevant names and contact information.

**SUPPLEMENTARY INFORMATION:**

**Public Comments**

You may submit your comments and materials regarding the taxonomic revisions, identified below in table 1, by one of the methods listed in **ADDRESSES**. Please include sufficient information with your comments to allow us to verify any scientific or commercial information you include. We will not consider comments sent by email or fax, or to an address not listed in **ADDRESSES**.

We will post all comments on <https://www.regulations.gov>. Before including your address, phone number, email address, or other personal information in your comment, you should be aware that your entire comment—including your personal identifying information—may be made publicly available at any time. While you can ask us in your comment to withhold your personal identifying information from public review, we cannot guarantee that we will be able to do so.

Comments and materials we receive, as well as supporting documentation we use in preparing this direct final rule, will be available for public inspection on the internet at <https://www.regulations.gov>. Please note that comments posted to <https://www.regulations.gov> are not immediately viewable. When you submit a comment, the system receives it immediately. However, the comment will not be publicly viewable until we post it, which might not occur until several days after submission. Information regarding this rule is available in alternative formats upon request (see **FOR FURTHER INFORMATION CONTACT**).

**Species-Specific Inquiries and Information**

For information pertaining to specific species, please contact our Ecological Services field offices as follows:

Species	Contact person	Contact phone and email	Contact address
Pacific islands species.	Megan Laut, Fish and Wildlife Biologist ...	808-792-9400; <a href="mailto:megan_laut@fws.gov">megan_laut@fws.gov</a> .....	Pacific Islands Fish and Wildlife Office, U.S. Fish and Wildlife Service, 300 Ala Moana Blvd., Room 3-122, Honolulu, HI 96813.
Idaho snails .....	Greg Burak, Fish and Wildlife Biologist ....	208-378-5654; <a href="mailto:greg_burak@fws.gov">greg_burak@fws.gov</a> .....	Idaho Fish and Wildlife Office, U.S. Fish and Wildlife Service, 1387 S Vinnell Way, Room 368, Boise, ID 83709.

**Background**

The List of Endangered and Threatened Wildlife and the List of Endangered and Threatened Plants (“the Lists”), set forth in title 50 of the Code of Federal Regulations (CFR) at 17.11 and 17.12, respectively, contain the names of endangered species and threatened species federally listed

pursuant to the Act (16 U.S.C. 1531 *et seq.*).

The regulations at 50 CFR 17.11(c) and 17.12(b) require us to use the most recently accepted scientific name of any wildlife or plant species, respectively, that we have determined to be an endangered or threatened species.

**Purpose of Direct Final Rule and Final Action**

The purpose of this direct final rule is to notify the public that we are revising the Lists at 50 CFR 17.11(h) and 17.12(h) to reflect scientifically accepted taxonomy and nomenclature for 23 wildlife species and 26 plant species listed under section 4 of the Act. These

changes to the Lists of Endangered and Threatened Wildlife and Plants reflect the most recently accepted scientific names in accordance with 50 CFR 17.11(c) and 17.12(b).

We are publishing this rule without a prior proposal because this is a noncontroversial action that is in the best interest of the public and should be undertaken in as timely a manner as possible. For the taxonomic revisions provided below in table 1, this rule will be effective, as published in this document, on the effective date specified in **DATES**, unless we receive significant adverse comments on or before the comment due date specified in **DATES**. Significant adverse comments are comments that provide strong justifications as to why this rule should not be adopted or why it should be changed.

If we receive significant adverse comments regarding the taxonomic changes for any of the species included in table 1, below, we will publish a

document in the **Federal Register** withdrawing this rule for the appropriate species before the effective date, and we will publish a proposed rule to initiate promulgation of those changes to 50 CFR 17.11(h) and/or 17.12(h).

In addition, we are notifying the public that we have identified editorial errors in the Lists, and they will be corrected on the effective date of this rule (see **DATES**, above). The identified errors are provided below in table 2. While you may submit comments by one of the methods listed in **ADDRESSES** on the corrections provided below in table 2, we consider these corrections purely administrative, and we intend to make these editorial corrections on the effective date of this rule.

None of these changes are regulatory in nature; they are for accuracy and clarity. These revisions do not alter species' protections or status in any way. Any actions altering a species' protection or status would require a

separate rulemaking action following the procedures of 50 CFR part 424.

**Summary Tables of Taxonomic Changes and Editorial Corrections**

Table 1 provides taxonomic changes we are making to reflect the scientifically accepted taxonomy and nomenclature of 23 wildlife and 26 plant species listed under section 4 of the Act. These changes reflect the most recently accepted scientific nomenclature in accordance with 50 CFR 17.11(c) and 17.12(b). The second column of table 1 also identifies correct usage of Hawaiian and Chamorro diacritical marks in common names for certain species; however, as we explain below, the text to be codified in the CFR will omit diacritical marks. Thus, corrections to common names that involve only addition of diacritical marks will not result in changes in the CFR.

**TABLE 1—TAXONOMIC REVISIONS TO THE LISTS REFLECTING THE CURRENT SCIENTIFICALLY ACCEPTED TAXONOMY AND NOMENCLATURE FOR THESE SPECIES**

Species name as currently listed	Corrected species name
Common name [ <i>scientific name</i> ]	Common name [ <i>scientific name</i> ]
<b>§ 17.11 Endangered and Threatened Wildlife</b>	
MAMMALS	
Hawaiian hoary bat [ <i>Lasiurus cinereus semotus</i> ] .....	Hawaiian hoary bat (‘ōpe‘ape‘a) [ <i>Aeorestes semotus</i> ].
BIRDS	
Crested honeycreeper (Akohekohe) [ <i>Palmeria dolei</i> ] .....	‘Ākohekohe (crested honeycreeper) [ <i>Palmeria dolei</i> ].
Oahu creeper [ <i>Paroreomyza maculata</i> ] .....	O‘ahu ‘alauahio [ <i>Paroreomyza maculata</i> ].
Hawaiian coot [ <i>Fulica americana alai</i> ] .....	Hawaiian coot (‘alae ke‘oke‘o) [ <i>Fulica alai</i> ].
Hawaii creeper [ <i>Oreomystis mana</i> ] .....	Hawaii creeper (‘alawī) [ <i>Loxops mana</i> ].
Hawaiian crow [ <i>Corvus hawaiiensis</i> ] .....	Hawaiian crow (‘alalā) [ <i>Corvus hawaiiensis</i> ].
Mariana crow [ <i>Corvus kubaryi</i> ] .....	Mariana crow (āga) [ <i>Corvus kubaryi</i> ].
Hawaiian duck [ <i>Anas wyvilliana</i> ] .....	Hawaiian duck (koloa maoli) [ <i>Anas wyvilliana</i> ].
Laysan finch (honeycreeper) [ <i>Telespiza cantans</i> ] .....	Laysan finch [ <i>Telespiza cantans</i> ].
Nihoa finch (honeycreeper) [ <i>Telespiza ultima</i> ] .....	Nihoa finch [ <i>Telespiza ultima</i> ].
Guam Micronesian kingfisher [ <i>Halcyon cinnamomina cinnamomina</i> ] .....	Guam kingfisher (sihek) [ <i>Todiramphus cinnamominus</i> ].
Micronesian (=La Perouse’s) megapode [ <i>Megapodius laperouse</i> ] .....	Micronesian megapode (sasangat) [ <i>Megapodius laperouse</i> ].
Mariana common moorhen [ <i>Gallinula chloropus guami</i> ] .....	Mariana common moorhen (pulattat) [ <i>Gallinula chloropus guami</i> ].
Molokai thrush [ <i>Myadestes lanaiensis rutha</i> ] .....	Moloka‘i oloma‘o [ <i>Myadestes lanaiensis rutha</i> ].
Small Kauai thrush [ <i>Myadestes palmeri</i> ] .....	Puaiohi [ <i>Myadestes palmeri</i> ].
Hawaiian petrel [ <i>Pterodroma sandwichensis</i> ] .....	Hawaiian petrel (‘ua‘u) [ <i>Pterodroma sandwichensis</i> ].
Guam rail [ <i>Rallus owstoni</i> ] .....	Guam rail (ko‘ko‘) [ <i>Gallirallus owstoni</i> ].
Newell’s Townsend’s shearwater [ <i>Puffinus auricularis newelli</i> ] .....	Newell’s shearwater (‘a‘o) [ <i>Puffinus newelli</i> ].
Band-rumped storm-petrel (Hawaii DPS) [ <i>Oceanodroma castro</i> ] .....	Band-rumped storm-petrel (‘akē‘akē) (Hawaii DPS) [ <i>Hydrobates castro</i> ].
Mariana gray swiftlet [ <i>Aerodramus vanikorensis bartschi</i> ] .....	Mariana swiftlet (yayaguak) [ <i>Aerodramus bartschi</i> ].
Rota bridled white-eye [ <i>Zosterops rotensis</i> ] .....	Rota white-eye (nosa‘ Luta) [ <i>Zosterops rotensis</i> ].
SNAILS	
Banbury Springs limpet [ <i>Lanx</i> sp.] .....	Banbury Springs limpet [ <i>Idaholanx fresti</i> ].
Snake River physa snail [ <i>Physa natricina</i> ] .....	Snake River physa snail [ <i>Physella natricina</i> ].

TABLE 1—TAXONOMIC REVISIONS TO THE LISTS REFLECTING THE CURRENT SCIENTIFICALLY ACCEPTED TAXONOMY AND NOMENCLATURE FOR THESE SPECIES

Species name as currently listed	Corrected species name
<b>§ 17.12 Endangered and Threatened Plants</b>	
Scientific name [common name]	Scientific name [common name]
FLOWERING PLANTS	
<i>Abutilon menziesii</i> [ko'oloa'ula]	<i>Abutilon menziesii</i> [ko'oloa'ula].
<i>Argyroxiphium sandwicense</i> ssp. <i>macrocephalum</i> [‘āhinahina]	<i>Argyroxiphium sandwicense</i> ssp. <i>macrocephalum</i> [‘āhinahina].
<i>Argyroxiphium sandwicense</i> ssp. <i>sandwicense</i> [‘āhinahina]	<i>Argyroxiphium sandwicense</i> ssp. <i>sandwicense</i> [‘āhinahina].
<i>Chamaesyce skottsbergii</i> var. <i>skottsbergii</i> [akoko (Ewa Plains akoko)]	<i>Euphorbia skottsbergii</i> var. <i>skottsbergii</i> [‘akoko].
<i>Cyrtandra crenata</i> [ha'iwale]	<i>Cyrtandra crenata</i> [ha'iwale].
<i>Cyrtandra limahuliensis</i> [haiwale]	<i>Cyrtandra kealiae</i> ssp. <i>kealiae</i> [ha'iwale].
<i>Gardenia brighamii</i> [Hawaiian gardenia (na'u)]	<i>Gardenia brighamii</i> [nānū].
<i>Kanaloa kahoolawensis</i> [kohe malama malama o kanaloa]	<i>Kanaloa kahoolawensis</i> [kohe malama malama o Kanaloa, ka palupalu o Kanaloa].
<i>Kokia cookei</i> [Cooke's koki'o]	<i>Kokia cookei</i> [koki'o].
<i>Kokia drynarioides</i> [koki'o]	<i>Kokia drynarioides</i> [koki'o].
<i>Kokia kauaiensis</i> [koki'o]	<i>Kokia kauaiensis</i> [koki'o].
<i>Mucuna sloanei</i> var. <i>persericea</i> [sea bean]	<i>Mucuna persericea</i> [sea bean].
<i>Platydesma cornuta</i> var. <i>cornuta</i> [no common name]	<i>Melicope cornuta</i> var. <i>cornuta</i> [no common name].
<i>Platydesma cornuta</i> var. <i>decurrens</i> [no common name]	<i>Melicope cornuta</i> var. <i>decurrens</i> [no common name].
<i>Platydesma remyi</i> [no common name]	<i>Melicope remyi</i> [no common name].
<i>Platydesma rostrata</i> [pilo kea lau lii]	<i>Melicope rostrata</i> [pilo kea lau li'i].
<i>Pleomele fernaldii</i> [hala pepe]	<i>Dracaena fernaldii</i> [hala pepe].
<i>Pleomele forbesii</i> [hala pepe]	<i>Dracaena forbesii</i> [hala pepe].
<i>Pleomele hawaiiensis</i> [hala pepe]	<i>Dracaena konaensis</i> [hala pepe].
<i>Psychotria hexandra</i> ssp. <i>oahuensis</i> [kopiko]	<i>Psychotria hexandra</i> var. <i>oahuensis</i> [kōpiko].
FERNS AND ALLIES	
<i>Adenophorus periens</i> [pendent kahi fern]	<i>Adenophorus periens</i> [palai lā'au].
<i>Asplenium dielerectum</i> [asplenium-leaved diellia]	<i>Asplenium dielerectum</i> [no common name].
<i>Cyclosorus boydiae</i> [kupukupu makalii]	<i>Menisciopsis boydiae</i> [kupukupu makali'i].
<i>Huperzia mannii</i> [wawae'iole]	<i>Phlegmariurus mannii</i> [wāwae'iole].
<i>Huperzia nutans</i> [wawae'iole]	<i>Phlegmariurus nutans</i> [wāwae'iole].
<i>Huperzia stemmermanniae</i> [no common name]	<i>Phlegmariurus stemmermanniae</i> [no common name].

Table 2 identifies the editorial corrections we are making in this rule. In table 2 (and the text), “2016 Reformatting” refers to an August 4, 2016, final rule (81 FR 51550) that the Service published to update the format of the Lists. The purpose of the 2016 Reformatting was to make the Lists easier to understand by changing the format to reflect current practices and standards, to correct identified errors in entries such as footnotes and spelling, and to update common names, among other changes. Following publication of the 2016 Reformatting we identified editorial errors in the updated Lists. Reference in table 2 to “80 FR 59424” indicates the citation for the final rule listing 23 species in Micronesia (80 FR 59424; October 1, 2015), which

incorrectly listed *Cycas micronesica* under the taxonomic subheading “Flowering Plants.” The third column of table 2 also identifies correct usage of Hawaiian diacritical marks in common names for certain species; however, as we explain below, the text to be codified in the CFR will omit diacritical marks. Five species are listed in both table 1 and table 2. For the Guam kingfisher, we consider the changes to the scientific name and English common name to be editorial corrections, while parenthetical addition of the Chamorro common name is a revision in nomenclature. For the Guam rail, we consider the changes to the listing citations to be editorial corrections, while the change in scientific name and parenthetical addition of the Chamorro

common name are revisions in nomenclature. For *Argyroxiphium sandwicense* ssp. *sandwicense*, we consider the changes to the listing citations to be an editorial correction, while the change in the common name is a revision in nomenclature. For *Euphorbia skottsbergii* var. *skottsbergii*, we consider the changes to scientific name and listing citations to be editorial corrections, while the change in the common name is a revision in nomenclature. For *Phlegmariurus nutans*, we consider the changes to the listing citations and critical habitat designation’s CFR citation to be editorial corrections, while the change in the scientific name is a revision in nomenclature.

TABLE 2—EDITORIAL CORRECTIONS TO THE LISTS

Current listed name	Error: action	Correction
<b>Wildlife</b>		
Guam Micronesian kingfisher [ <i>Halcyon cinnamomina cinnamomina</i> ].	Error in 2016 Formatting: Correct English common name and scientific name; correct listing citations to refer to critical habitat designation by its CFR citation.	Guam kingfisher [ <i>Todiramphus cinnamominus</i> ]; remove “69 FR 62943; 10/28/2004”.
Guam rail [ <i>Rallus owstoni</i> ]	Error in 2016 Formatting: Correct listing citation for first Guam rail entry (endangered) to remove expired emergency listing rule and misplaced experimental population rule.	Remove “49 FR 14354; 4/11/1984” and “54 FR 43966; 10/30/1989”.
Flying earwig Hawaiian damselfly [ <i>Megalagrion nesiotis</i> ].	Error in 2016 Formatting: Correct listing citation	75 FR 35990, 6/24/2010.
Pacific Hawaiian damselfly [ <i>Megalagrion pacificum</i> ]	Error in 2016 Formatting: Correct listing citation	75 FR 35990, 6/24/2010.
<b>Plants</b>		
<i>Argyroxiphium sandwicense</i> ssp. <i>sandwicense</i> [‘ahinahina].	Error in 2016 Formatting: Correct date in listing citation.	3/21/1986.
<i>Chamaesyce skottsbergii</i> var. <i>skottsbergii</i> [Akoko (Ewa Plains akoko)].	Error in 2016 Formatting: Correct scientific name; correct listing citations to refer to critical habitat designation by its CFR citation.	<i>Euphorbia skottsbergii</i> var. <i>skottsbergii</i> ; remove “77 FR 57647; 9/18/2012”.
<i>Cyanea gibsonii</i> [no common name]	Error in 2016 Formatting: Correct common name	hāhā.
<i>Cyanea humboldtiana</i> [haha]	Error in 2016 Formatting: Correct scientific name	<i>Cyanea humboldtiana</i> .
<i>Cyanea platyphylla</i> [haha]	Error in 2016 Formatting: Correct common name	‘akū‘akū.
<i>Cycas micronesica</i> [fadang, faadang]	Error in 80 FR 59424: Correct taxonomic subheading	Move under subheading “Conifers and Allies”.
<i>Delissea rivularis</i> [haha]	Error in 2016 Formatting: Correct scientific name; correct listing citations to refer to critical habitat designation by its CFR citation.	<i>Cyanea rivularis</i> ; remove “68 FR 9115; 2/27/2003”.
<i>Hedyotis cookiana</i> [awiwi]	Error in 2016 Formatting: Correct scientific name	<i>Kadua cookiana</i> .
<i>Limnanthes floccosa</i> ssp. <i>grandiflora</i> [large-flowered woolly meadowfoam].	Error in 2016 Formatting: Correct scientific name	<i>Limnanthes pumila</i> ssp. <i>grandiflora</i> .
<i>Mezoneuron kavaense</i> [uhi uhi]	Error in 2016 Formatting: Correct common name	uhuihi.
<i>Plantago hawaiensis</i> [laukahi kuahiwi]	Error in 2016 Formatting: Correct scientific name	<i>Plantago hawaiensis</i> .
<i>Asplenium</i> (= <i>Diellia</i> ) <i>dielfalcatum</i> (= <i>falcate</i> ) [no common name].	Error in 2016 Formatting: Correct scientific name	<i>Asplenium</i> (= <i>Diellia</i> ) <i>dielfalcatum</i> (= <i>falcata</i> ).
<i>Asplenium</i> (= <i>Diellia</i> ) <i>dielpallicum</i> (= <i>pallida</i> ) [no common name].	Error in 2016 Formatting: Correct scientific name	<i>Asplenium</i> (= <i>Diellia</i> ) <i>dielpallidum</i> (= <i>pallida</i> ).
<i>Huperzia nutans</i> [wawaeiole]	Error in 2016 Formatting: Correct listing citation and a critical habitat designation’s CFR citation.	59 FR 14482, 3/28/1994; 50 CFR 17.99(a)(1); <sup>CH</sup> 50 CFR 17.99(i). <sup>CH</sup>

**Description of Taxonomic Revisions and Editorial Corrections**

Using the best available scientific information, this direct final rule documents taxonomic changes of the scientific names to 11 entries on the List of Endangered and Threatened Wildlife (50 CFR 17.11(h)) and 14 entries on the List of Endangered and Threatened Plants (50 CFR 17.12(h)). The basis for these taxonomic changes is supported by published studies in peer-reviewed journals.

Accordingly, we revise the scientific names of these wildlife species under section 4 of the Act (16 U.S.C. 1531 *et seq.*) as follows: Hawaiian hoary bat (*Aeorestes semotus*), Hawaiian coot (*Fulica alai*), Hawaii creeper (*Loxops mana*), Laysan finch (*Telespiza cantans*), Nihoa finch (*Telespiza ultima*), Guam rail (*Gallirallus owstoni*), Newell’s shearwater (*Puffinus newelli*), band-rumped storm-petrel (*Hydrobates castro*), Mariana swiftlet (*Aerodramus bartschi*), Banbury Springs limpet (*Idaholanx fresti*), and Snake River physa snail (*Physella natricina*). We make these changes to the List of Endangered and Threatened Wildlife to reflect the most recently accepted

scientific names in accordance with 50 CFR 17.11(c). Additionally, common names of 21 wildlife species (including 9 of the above species: Hawaiian hoary bat, Hawaiian coot, Hawaii creeper, Laysan finch, Nihoa finch, Guam rail, Newell’s shearwater, band-rumped storm-petrel, and Mariana swiftlet) are revised to reflect currently accepted usage and/or to include accepted common names in the Hawaiian or Chamorro languages. The first common name listed is the one used by the primary taxonomic authority for the appropriate taxonomic group (*e.g.*, American Society of Mammalogists, American Ornithological Society, MolluscaBase), while alternative names are presented parenthetically.

Similarly, we revise the scientific names of these plant species under section 4 of the Act (16 U.S.C. 1531 *et seq.*) as follows: *Cyrtandra kealiae* ssp. *kealiae* (ha’iwale), *Mucuna persericea* (sea bean), *Melicope cornuta* var. *cornuta* (no common name), *Melicope cornuta* var. *decurrens* (no common name), *Melicope remyi* (no common name), *Melicope rostrata* (pilo kea lau li’i), *Dracaena fernaldii* (hala pepe), *Dracaena forbesii* (hala pepe), *Dracaena*

*konaensis* (hala pepe), *Psychotria hexandra* var. *oahuensis* (kōpiko), *Menisciopsis boydiae* (kupukupu makali’i), *Phlegmariurus mannii* (wāwae’iole), *Phlegmariurus nutans* (wāwae’iole), and *Phlegmariurus stemmermanniae* (no common name). Additionally, common names of 13 plant species are revised to reflect currently accepted usage or for orthographic consistency.

Several species that are the subjects of the taxonomic revisions or editorial corrections in this direct final rule have a designated experimental population or critical habitat. For clarity and consistency, we are revising the text of the experimental population for Guam rail (50 CFR 17.84(f)) to correct the scientific name. We are also revising the text of the critical habitat for the following species where necessary to correct scientific or common names: Guam kingfisher (*Todiramphus cinnamominus*) and Rota white-eye (*Zosterops rotensis*) at § 17.95; *Limnanthes pumila* ssp. *grandiflora* (large-flowered woolly meadowfoam) at § 17.96; and *Cyanea rivularis* (haha), *Cyrtandra kealiae* ssp. *kealiae* (ha’iwale), *Dracaena forbesii* (hala

pepe), *Dracaena konaensis* (hala pepe), *Euphorbia skottsbergii* var. *skottsbergii* ('akoko), *Kadua cookiana* (awiwi), *Kokia cookei* (koki'o), *Melicope cornuta* var. *cornuta* (no common name), *Melicope cornuta* var. *decurrens* (no common name), *Melicope rostrata* (pilo kea lau li'i), *Mucuna persericea* (sea bean), *Psychotria hexandra* var. *oahuensis* (kōpiko), *Adenophorus periens* (palai lā'au), *Asplenium dielerectum* (no common name), *Asplenium dielfalcatum* (no common name), *Asplenium dielpallidum* (no common name), *Phlegmariurus mannii* (wāwae'iole), and *Phlegmariurus nutans* (wāwae'iole) at § 17.99. These revisions are not regulatory in nature and do not alter the boundaries of critical habitat or the protections of the Act in any way.

The 2016 Reformatting (81 FR 51550; August 4, 2016) inadvertently introduced typographic errors in scientific names, common names, or listing citations for several listed species. This rule also did not fully incorporate corrections to the Lists that had previously been made in the direct final rules published on June 23, 2015 (80 FR 35860) and February 17, 2016 (81 FR 8004) and a final critical habitat rule published on March 30, 2016 (81 FR 17790). As summarized above in table 2, we are updating the Lists to correct these and several other errors.

We prefer to, and will, include Hawaiian and Chamorro language spellings, including diacritical marks, to the degree possible and appropriate in the preambles of our **Federal Register** documents. For the text to be codified in the CFR, however, we will omit diacritical marks to ensure that no errors are inadvertently incorporated during the codification process.

We make other minor editorial corrections to the Lists to ensure uniformity and clarity in the way we present information in the "Listing citations and applicable rules" columns. The information in these columns is not regulatory but is presented as helpful information for the reader.

These revisions and corrections are not regulatory in nature; they are administrative and for the purpose of clarity. The corrections do not alter species' protections, listing status, or critical habitat; an action changing a species' protections, listing status, or critical habitat would require a separate rulemaking following the procedures set forth at 50 CFR part 424.

#### Taxonomic Classification

##### Hawaiian Hoary Bat

The Hawaiian hoary bat was originally listed as endangered (35 FR

16047; October 13, 1970) under the scientific name *Lasiurus cinereus semotus*. However, genetic analyses of mitochondrial and nuclear DNA (Baird et al. 2015, pp. 10–13; Baird et al. 2017, pp. 18–22; Baird et al. 2021, pp. 285–288) resulted in a split of the genus *Lasiurus*, assigning hoary bats to the genus *Aeorestes*, and reclassification of the subspecies *semotus* as a full species. Initial analyses of mitochondrial DNA and nuclear DNA from chymase gene alleles (Baird et al. 2015, pp. 1264–1265; Baird et al. 2017, pp. 13–20) indicated that some hoary bats on the islands of Maui and Oahu grouped within the North American species *Aeorestes cinereus*; however, Pinzari et al. (2020, pp. 1509–1510) conducted a whole-genome analysis of single-nucleotide polymorphisms that provided finer resolution of phylogeny and concluded all hoary bats in the Hawaiian islands are one species that share a common ancestor from a single colonization event. The Integrated Taxonomic Information System (ITIS) has treated the Hawaiian hoary bat as a full species, *Aeorestes semotus*, since the latest record review for the genus in 2021 (ITIS 2022, unpaginated). This classification has also been adopted by the American Society of Mammalogists (2022, unpaginated). Thus, the current scientific name of the Hawaiian hoary bat is *Aeorestes semotus*. This taxonomic change does not affect the range or endangered status of the Hawaiian hoary bat.

##### Hawaiian Coot

The Hawaiian coot, a waterbird endemic to the Hawaiian Islands, was classified by Bryan and Greenway (1944, p. 109) as a subspecies of the American coot (*Fulica americana*). Following this taxonomic treatment, the Hawaiian coot was originally listed as endangered (35 FR 16047; October 13, 1970) under the scientific name *Fulica americana alai*. However, Pratt (1987, p. 27) concluded that based on characteristics of the plumage, bill, and frontal shield there was no reason to consider the Hawaiian coot more closely allied to the American coot than to any of five other related coot species. Consequently, the American Ornithologists' Union (AOU; now known as the American Ornithological Society (AOS)) (1993, p. 677) designated the Hawaiian coot as a full species; the scientific name of the Hawaiian coot is now *Fulica alai*. This taxonomic change does not affect the range or endangered status of the Hawaiian coot.

##### Hawaiian Creepers

The Hawaii creeper, a songbird endemic to the island of Hawaii, was classified by Amadon (1950, pp. 166–167) as one of six island endemic subspecies of *Loxops maculata*. Following this taxonomic treatment, the Hawaii creeper was originally listed as endangered (40 FR 44149; September 25, 1975) under the scientific name *Loxops maculata mana*. However, the AOU (1982, p. 16CC) subsequently split *Loxops maculata* into five species divided among the genera *Oreomystis* (Hawaii and Kauai) and *Paroreomyza* (Maui/Lāna'i, Moloka'i, and O'ahu); the Hawaii creeper was thus treated as a full species, *Oreomystis mana*. The List of Endangered and Threatened Wildlife (50 CFR 17.11(h)) currently reflects this taxonomy for the species.

The Hawaii creeper is similar in morphology and behavior to the 'akikiki (*Oreomystis bairdi*) (Pratt 1992, pp. 837–843; Reding et al. 2009, p. 221). However, analyses of genetic and osteological data (Fleischer et al. 1998, pp. 538–539; James 2004, pp. 235–241; Reding et al. 2009, pp. 222–223; Lerner et al. 2011, pp. 1839–1841) indicate that these similarities are a result of convergent evolution, and that the Hawaii creeper is more closely related to the 'ākepa species (genus *Loxops*) than to the 'akikiki. Consequently, the AOU has transferred the Hawaii creeper to the genus *Loxops* (Chesser et al. 2013, p. 567); the scientific name of the Hawaii creeper is now *Loxops mana*. This taxonomic change does not affect the range or endangered status of the Hawaii creeper.

The List of Endangered and Threatened Wildlife (50 CFR 17.11(h)) also currently includes the O'ahu creeper (*Paroreomyza maculata*). While this scientific name continues to be accepted, the AOU (1993, p. 680) adopted the Hawaiian name "O'ahu 'alauahio" as the common name for this species. This change in common name does not affect the range or endangered status of this taxon.

##### Guam Rail

The Guam rail was originally listed as endangered (49 FR 33881; August 27, 1984) under the scientific name *Rallus owstoni*. However, Olson (1973, pp. 394–397) classified this species and several other Pacific islands rail taxa within the genus *Gallirallus* based on differences in plumage and body structure, also noting that *Gallirallus* has priority over the alternative generic name *Hypotaenidia*. This classification has subsequently been adopted by the eBird/Clements Checklist of Birds of the

World: v2021 (Clements et al. 2021, unpaginated), and is also used by the Service on the List of Migratory Birds (50 CFR 10.13). ITIS has also treated the Guam rail as *Gallirallus owstoni* since the latest record review for the genus in 2006 (ITIS 2022, unpaginated). Thus, we consider the current scientific name of the Guam rail to be *Gallirallus owstoni*. This taxonomic change does not affect the range or endangered status of the Guam rail.

#### *Newell's Shearwater*

On September 25, 1975, we published a final rule (40 FR 44149) listing the Newell's Manx shearwater (*Puffinus puffinus newelli*), a seabird native to the Hawaiian Islands, as threatened. At the time of listing, the taxon *newelli* was treated as a subspecies of the Manx shearwater (*Puffinus puffinus*), following Murphy (1952, pp. 1–21) who had recognized eight subspecies worldwide (*puffinus* [North Atlantic], *mauretanicus* [western Mediterranean], *yelkouan* [eastern Mediterranean], *gavia* [New Zealand], *huttoni* [New Zealand], *newelli* [Hawaiian Islands], *auricularis* [Revillagigedo Islands, Mexico], and *opisthomelas* [Baja California]).

Subsequently the AOU (1983, pp. 24–25) restricted the Manx shearwater to the North Atlantic and Mediterranean forms, recognizing *newelli* and *auricularis* as subspecies of the distinct species Townsend's shearwater (*Puffinus auricularis*). The List of Endangered and Threatened Wildlife currently follows this taxonomy, identifying the listed entity as Newell's Townsend's shearwater (*P. auricularis newelli*).

The Hawaiian and Revillagigedo Islands populations differ substantially from one another in their plumage (Howell et al. 1994, pp. 171–176), breeding chronology (Ainley et al. 1997, unpaginated), and foraging ecology (Spear et al. 1995, pp. 621–637). Despite apparent similarity in mitochondrial DNA of the two populations (Martinez-Gomez et al. 2015, pp. 1025–1034), the AOU considered these differences sufficient to function as isolating mechanisms and, following unanimous recommendation of the North American Classification Committee, classified Newell's shearwater (*Puffinus newelli*) as a full species distinct from Townsend's shearwater (*Puffinus auricularis*) (Chesser et al. 2015, pp. 751–752; AOU 2015, unpaginated). This approach is also followed by the eBird/Clements Checklist of Birds of the World: v2021 (Clements et al. 2021, unpaginated) and the International Ornithological Committee (IOC, now known as the International

Ornithologists' Union (IOU)) World Bird List (Gill et al. 2021, unpaginated). This taxonomic change does not affect the range or threatened status of the Newell's shearwater.

#### *Band-Rumped Storm-Petrel*

The Hawaii distinct population segment (DPS) of the band-rumped storm-petrel was listed as endangered (81 FR 67786; September 30, 2016) under the scientific name *Oceanodroma castro*. However, analysis of nuclear and mitochondrial DNA (Penhallurick and Wink 2004, p. 136; Wallace et al. 2017, pp. 39–47) has shown that some species in the genus *Oceanodroma* are more closely related to storm-petrel species in the genus *Hydrobates*. Because the name *Hydrobates* has taxonomic priority over *Oceanodroma*, the AOS (Chesser et al. 2019, p. 8) has transferred all species of *Oceanodroma* to *Hydrobates*. Thus, the scientific name of the band-rumped storm-petrel is now *Hydrobates castro*. This taxonomic change does not affect the range or endangered status of the Hawaii DPS of the band-rumped storm-petrel.

#### *Mariana Swiftlet*

Swiftlets in the Marianas archipelago were considered by Medway (1966, pp. 159–160; 1975, pp. 154–155) to be a subspecies of the Vanikoro swiftlet (*Aerodramus vanikorensis bartschi*) based on plumage and nest structure. Following this taxonomic approach, the Vanikoro swiftlet in the Marianas islands was listed as endangered under the scientific name *Aerodramus [=Collocalia] vanikorensis bartschi* (49 FR 33881; August 27, 1984).

The AOU (1983, p. 783) similarly considered *bartschi* as a subspecies of *Aerodramus vanikorensis*, adopting the common name of “gray swiftlet” for the species. The current treatment of this taxon on the List of Endangered and Threatened Wildlife (50 CFR 17.11(h)) continues to follow this approach. However, on further analysis, Browning (1993, pp. 101–104) identified substantial differences in size, morphology, plumage, and nest structure and recommended that the Marianas taxon *bartschi* be treated as a full species in the genus *Collocalia*. Consequently, the AOU (1995, p. 821) treated the Marianas taxon as a full species, *Collocalia bartschi*, with the common name of “Guam swiftlet.” Subsequently, this treatment was further modified to return the taxon to the genus *Aerodramus* (AOU 1997, p. 545), following genetic research by Lee et al. (1996, pp. 7093–7096), and to adopt the common name “Mariana swiftlet” (Banks et al. 2002, p. 901). Other global

bird checklists (e.g., Clements et al. 2021, unpaginated; Gill et al. 2021, unpaginated) similarly describe this taxon as the Mariana swiftlet, *Aerodramus bartschi*. This taxonomic change does not affect the range or endangered status of the Mariana swiftlet.

#### *Other Pacific Islands Landbirds*

The List of Endangered and Threatened Wildlife (50 CFR 17.11(h)) currently includes the crested honeycreeper (*Palmeria dolei*), small Kauai thrush (*Myadestes palmeri*), and Moloka'i thrush (*Myadestes lanaiensis rutha*). While these scientific names continue to be accepted, the AOU (1985, p. 684; 1998, p. 678) has adopted Hawaiian names as the common names for these three species: ‘akohekohe (*Palmeria dolei*), puaiohi (*Myadestes palmeri*), and oloma'o (*Myadestes lanaiensis*). The subspecies *M. lanaiensis lanaiensis* historically occurred on Lāna'i but is now extinct and was not listed under the Act; the common name of “Moloka'i oloma'o” may be used to specifically refer to the listed subspecies *M. lanaiensis rutha* on Moloka'i. These changes in common name do not affect the range or endangered status of these taxa.

The List of Endangered and Threatened Wildlife (50 CFR 17.11(h)) also currently includes the Rota bridled white-eye (*Zosterops rotensis*). This scientific name continues to be accepted. However, this common name originated from the taxon having been formerly considered as a subspecies of the bridled white-eye (*Zosterops conspicillatus*) (Mees 1969, p. 148). Because it is now considered a separate species on the basis of mitochondrial DNA data (Slikas et al. 2000, p. 364), the common name “Rota white-eye” is more appropriate. Recent global checklists (Clements et al. 2021, unpaginated; Gill et al. 2021, unpaginated) have adopted this terminology. This change in common name does not affect the range or endangered status of this taxon.

In addition, on the List of Endangered and Threatened Wildlife, the generic name for Laysan finch and Nihoa finch should be changed from *Telespyza* to *Telespiza*. A spelling error in the original description of these species has been amended by the American Ornithologists Union (AOU 1987, p. 594), and *Telespiza* is now considered the accepted spelling. In the common name for these species, the parenthetical “honeycreeper” is unnecessary and will be deleted.

In the common name for the Micronesian megapode (*Megapodius laperouse*), the parenthetical “La

Perouse's" is unnecessary and will be deleted.

#### Hawaiian and Chamorro Names

Several mammal and bird species currently appear on the List of Endangered and Threatened Wildlife only by their English common name, although their names in the Hawaiian or Chamorro languages are also regularly used and, in previous Service documents, we have often informally referred to them by those names. Various recovery plans and other documents cite Hawaiian names for Hawaiian hoary bat ('ōpe'ape'a) (USFWS 1998, p. 1), Hawaiian coot ('alae ke'oke'o) and Hawaiian duck (koloa maoli) (USFWS 2012, p. 1), Hawaii creeper ('alawī) (DLNR 2017, unpaginated), Newell's shearwater ('a'ō) and Hawaiian petrel ('ua'u) (USFWS 1983, p. 1), band-rumped storm-petrel ('akē'akē) (USFWS 2022, p. 12), and Hawaiian crow ('alalā) (USFWS 2009, p. 1); and Chamorro names for Mariana crow (āga) (USFWS 2006, p. 1), Guam kingfisher (sihek) (USFWS 2008, p. 1), Guam rail (ko'ko') and Mariana swiftlet (yayaguak) (USFWS 1990, p. 2), Mariana common moorhen (pulattat) (USFWS 1991, p. 2), Micronesian megapode (sasangat) (USFWS 1998, p. 3), and Rota white-eye (nosa' Luta) (USFWS 2007, p. 1). To improve public communication, understanding, and engagement with local conservation partners, we are including these on the List as accepted common names for the respective species.

As previously noted, Hawaiian and Chamorro orthographic characters are included here and elsewhere in the preamble section of this rule to reflect accurate spelling of these common names; references supporting the correct spelling and orthography of these names include Wagner et al. (1999, entire), Ranker et al. (2019, entire), and Ulukau (2022, unpaginated). However, the text below in this rule that is to be codified in the CFR uses only standard English characters to prevent inadvertent errors during the codification process. Currently, the List of Endangered and Threatened Plants is inconsistent in its representation of Hawaiian names that include the glottal stop or 'okina ('); for most species the glottal stop is omitted entirely, and for a few it is incorrectly represented by a grave accent ('). Because the grave accent no longer accurately represents the 'okina, for consistency, we are amending the List of Endangered and Threatened Plants to remove the grave accent mark from the common names of these species: *Abutilon menziesii* (ko'oloa'ula), *Argyroxiphium sandwicense* ssp.

*macrocephalum* ('āhinahina), *Argyroxiphium sandwicense* ssp. *sandwicense* ('āhinahina), *Cyrtandra crenata* (ha'iwale), *Kokia drynarioides* (koki'o), *Kokia kauaiensis* (koki'o), and *Huperzia* (amended to *Phlegmariurus* in this rule) *mannii* (wāwae'iole).

#### Hawaiian Birds Not Addressed

Five Hawaiian bird species for which outstanding nomenclatural issues exist were proposed for delisting due to extinction on September 30, 2021 (86 FR 54298). In the List of Endangered and Threatened Wildlife (50 CFR 17.11(h)), the scientific name of Kauai 'akialoa appears in error as *Hemignathus stejnegeri*, although the currently accepted scientific name is *Akialoa stejnegeri*, as set forth in our direct final rule published on February 17, 2016 (81 FR 8004). The large Kauai thrush (*Myadestes myadestinus*) is also known by the Hawaiian common name of kāmā'o (AOU 1998, p. 501); the Moloka'i creeper (*Paroreomyza flammea*) is also known by the Hawaiian common name of kākāwahie (AOU 1998, p. 676). In addition, the common names of the Kauai 'o'o (*Moho braccatus*) and po'ouli (*Melamprosops phaeosoma*) incorrectly use the grave accent mark to represent the 'okina. Because these species may be removed from the List of Endangered and Threatened Wildlife when that proposed rule is finalized, we are not including them in this direct final rule. In addition, we published a proposed rule to reclassify the Hawaiian stilt (*Himantopus mexicanus knudseni*) from an endangered species to a threatened species on March 25, 2021 (86 FR 15855); the addition of the Hawaiian common names to the List for this subspecies (ae'ō, kukulu'ae'ō) is being addressed through that rulemaking process. Therefore, we are not including the Hawaiian stilt in this direct final rule.

#### Idaho Snails

The Banbury Springs limpet (*Lanx* (n.) sp.) is listed as endangered (see 57 FR 59244; December 14, 1992). It is a freshwater gastropod in the subfamily Lancinae, which are limpet-like gastropods within the family Lymnaidae. All known species within the Lancinae are restricted to the northwestern United States in river and tributary systems ranging from the Sacramento River north to the Kootenai River, a tributary of the Columbia. Although not formally described in the scientific literature at the time of its listing under the Act, the Banbury Springs limpet was identified as a unique species with a highly restricted range, from springs derived from a

single aquifer system that feeds the middle reaches of the Snake River in Idaho. At the time of its discovery by the late Dr. Terry Frest in 1988, the Banbury Springs limpet was placed in the genus *Lanx*, with a temporary assignment of *Lanx* (n.) sp., as a congener with two other species, *L. patelloides* and *L. alta* (Campbell et al. 2017).

An unpublished genetic and morphological analysis by S.A. Clark (*in litt.* 2007) supported the Banbury Springs limpet as a unique species and suggested a level of differentiation that might warrant the erection of a separate genus. Despite this work, the species remained undescribed until a recent, more thorough investigation by Campbell et al. (2017, entire), who analyzed genetic sequences from four DNA regions from samples of the three described lancine species as well as samples from the four known populations of Banbury Springs limpet. Comparisons with other members of the subfamily also included differences in shell shape, shape and location of the columnar musculature, and genital morphology, all of which support Clark's earlier taxonomic analysis and placement of Banbury Springs limpet within its own genus. The new genus, *Idaholanx*, describes the species' endemicity within the State of Idaho, with the species name honoring Dr. Frest. The taxonomic revision to *Idaholanx fresti* does not affect the range or endangered status of the Banbury Springs limpet.

The Snake River physa snail, a freshwater gastropod endemic to the Snake River in southern Idaho, was originally described as *Physa natricina* (Taylor 1988, entire) and was federally listed as endangered (see 57 FR 59244; December 14, 1992). Subsequently, the species was transferred by Taylor (2003, pp. 12, 147–148) to the genus *Haitia*, part of a new tribe Haitini, based primarily on penile morphology. Taylor's 2003 revision of the family Physidae designated 11 new genera, including *Haitia* into which he placed the Snake River physa snail based on internal anatomy. Using analyses of phylogenetic trees based on sequences of two mitochondrial genes along with reproductive morphology, Wethington and Lydeard (2007, p. 252) found inconsistencies in Taylor's classifications. While the six anatomical groups they identified fit loosely with Taylor's tribes, the molecular data of Wethington and Lydeard found his more finely divided classification to not be warranted.

The validity of the Snake River physa snail as a species was later called into

question based on a morphological (shell) analysis of Physidae specimens from the Snake River (Rogers and Wethington 2007, entire), but later genetic analyses confirmed *Physa natricina* as a distinct species (Gates et al. 2013, entire).

More recently, Young et al. (2021, entire) used an array of species delineation analyses based on mitochondrial and nuclear gene sequences to re-evaluate species designations among Physidae in North America. Their analyses strongly supported the Snake River physa snail as a distinct taxon in the *Physella* clade (Young et al. 2021, pp. 7–8; MolluscaBase 2021, unpaginated), supporting recognition of *Physella natricina* as the adopted nomenclature for the Snake River physa snail.

The taxonomic revision to *Physella natricina* does not affect the range or endangered status of the Snake River physa snail.

#### Hawaiian Plants

On February 25, 1994, we published a final rule (59 FR 9304) to list the Hawaiian plant *Cyrtandra limahuliensis* (ha'iwale) as threatened. Subsequent examination of floral morphology and localities for specimens that were previously identified as this species and *C. kealiae* indicate that these taxa represent two subspecies of the same species that occur in different regions of the island of Kauai (Wagner and Lorence 2000, entire). Thus, specimens previously assigned to *C. kealiae* are now considered to represent the non-listed subspecies *C. kealiae* ssp. *urceolata*, while specimens assigned to *Cyrtandra limahuliensis* represent the subspecies *C. kealiae* ssp. *kealiae*. This taxonomic revision does not affect the range or threatened status of the taxon.

The endemic Hawaiian plant *Mucuna sloanei* var. *persericea* (sea bean) is listed as endangered (see 78 FR 32014; May 28, 2013). The species *Mucuna sloanei* is widespread in the tropics; however, examination of herbarium records shows Hawaiian specimens are distinct in flower and leaflet morphology, and they are now considered a distinct species (Moura et al. 2012, entire). Thus, the scientific name of the listed taxon is changed to *Mucuna persericea*. This taxonomic revision does not affect the range or endangered status of the taxon.

Four Hawaiian plants in the genus *Platydesma* are listed as endangered: *P. rostrata* (pilo kea lau li'i) (see 75 FR 18960; April 13, 2010), *P. cornuta* var. *cornuta* and *P. cornuta* var. *decurrens* (no common name) (see 77 FR 57648; September 18, 2012), and *P. remyi* (no

common name) (see 78 FR 64638; October 29, 2013). Recent molecular studies indicate that the genus *Platydesma* is nested within the widely distributed genus *Melicope* (Appelhans et al. 2017, pp. 125–137). Thus, the scientific names of the four listed species are changed to *Melicope rostrata*, *M. cornuta* var. *cornuta*, *M. cornuta* var. *decurrens*, and *M. remyi*. This taxonomic revision does not affect the range or endangered status of these taxa.

Three Hawaiian plants in the genus *Pleomele* (hala pepe) are listed as endangered: *P. hawaiiensis* (see 61 FR 53137; October 10, 1996), *P. forbesii* (see 77 FR 57648; September 18, 2012), and *P. fernaldii* (see 78 FR 32014; May 28, 2013). *Pleomele hawaiiensis* is synonymous with the species *P. konaensis*, which has nomenclatural priority (St. John 1985, pp. 185–187; L. Weisenberger in litt. 2021). Phylogenetic analysis of chloroplast DNA, as well as differences in floral morphology and diurnal flowering pattern, indicate that Hawaiian *Pleomele* species are a distinct group; this group has been alternatively treated as the genus *Chrysodracon* (Lu and Morden 2014, pp. 92–98), but based on new genetic analyses, *Chrysodracon* is now considered a subgenus nested within the genus *Dracaena* (Jankalski 2008, pp. 17–21; Takawira-Nyenya 2018, p. 265). Thus, the scientific names of the three listed species are changed to *Dracaena konaensis*, *D. forbesii*, and *D. fernaldii*. This taxonomic revision does not affect the range or endangered status of these species.

The Hawaiian plant *Psychotria hexandra* ssp. *oahuensis* (kōpiko) is listed as endangered (see 77 FR 57648; September 18, 2012). On review of its taxonomic history, it was determined that this taxon has been validly published as a variety but not as a subspecies (Wagner in litt. 2021). Therefore, the scientific name of this taxon is changed to *Psychotria hexandra* var. *oahuensis*. This taxonomic revision does not affect the range or endangered status of this taxon.

The Hawaiian fern *Cyclosorus boydiae* (kupukupu makali'i) is listed as endangered (see 81 FR 67786; September 30, 2016). Based on morphology and molecular phylogenetic data, Fawcett and Smith (2021, p. 53) transferred this species to the genus *Menisciopsis*. Thus, its scientific name is changed to *Menisciopsis boydiae*.

Three Hawaiian lycophytes in the genus *Huperzia* are listed as endangered: *H. mannii* (wāwae'iole) (see 57 FR 20772; May 15, 1992), *H. nutans* (wāwae'iole) (see 59 FR 14482; March 28, 1994), and *H. stemmermanniae* (no

common name) (see 81 FR 67786; September 30, 2016). Palmer (2003, pp. 257–259) recognized *Phlegmariurus* as a group within *Huperzia*, and in the most recent taxonomic treatment of the Hawaiian fern and lycophyte flora, *Phlegmariurus* was recognized as a distinct genus that includes the three listed species (Ranker et al. 2019, pp. 55–56, following Pteridophyte Phylogeny Group 2016, p. 570). Thus, the scientific names of these species are changed to *Phlegmariurus mannii*, *P. nutans*, and *P. stemmermanniae*. This taxonomic revision does not affect the range or endangered status of the species.

The Hawaiian plant *Euphorbia skottsbergii* var. *skottsbergii* ('Ewa Plains 'akoko) is listed as endangered (see 47 FR 36846; August 24, 1982). The common name of this taxon is changed to 'akoko following Wagner et al. (1999, pp. 614–615).

The Hawaiian plant *Gardenia brighamii* (Hawaiian gardenia [nā'ū]) is listed as endangered (see 50 FR 33728; August 21, 1985). The common name of this taxon is changed to nānū following Wagner et al. (1999, pp. 1131–1133) and for consistency with common names of the other listed taxa in the genus (*G. mannii* and *G. remyi*).

The Hawaiian plant *Kanaloa kahoolawensis* (kohe malama malama o Kanaloa) is listed as endangered (see 64 FR 48307; September 3, 1999). An alternative common name of this species, ka palupalu o Kanaloa, has also been adopted (K. Wood in litt. 2021).

The Hawaiian plant *Kokia cookei* (Cooke's koki'o) is listed as endangered (see 44 FR 62470; October 30, 1979). The common name of this species is changed to koki'o following Wagner et al. (1999, pp. 889–890).

The Hawaiian fern *Adenophorus periens* (pendent kihi fern) is listed as endangered (see 59 FR 56333; November 10, 1994). The common name of this species is changed to palai lā'au following Ranker et al. (2019) (supplemental data).

The Hawaiian fern *Asplenium diellectum* (asplenium-leaved diellia) is listed as endangered (see 59 FR 56333; November 10, 1994). The common name of this species reflects its former classification in the genus *Diellia*, but is no longer accurate, and is changed to “no common name” following Ranker et al. (2019) (supplemental data).

#### Correction of Errors

To remedy errors in the Lists (50 CFR 17.11 and 17.12) that were introduced in the 2016 Reformatting (81 FR 51550; August 4, 2016), we are revising the



common and/or scientific names of 1 wildlife species (Guam kingfisher, also addressed above to parenthetically include its Chamorro common name) and 11 plant species as follows. On the List of Endangered and Threatened Wildlife, we change the scientific name of Guam Micronesian kingfisher from *Halcyon cinnamomina cinnamomina* to *Todiramphus cinnamominus* and its English common name to Guam kingfisher. On the List of Endangered and Threatened Plants, we correct typographic errors in scientific names by changing *Asplenium dielpallicum* to *Asplenium dielpallidum*, changing *Cyanea humboldtiana* to *Cyanea humboldtiana*, changing *Plantago hawaiiensis* to *Plantago hawaiiensis*, and changing the parenthetical term in the scientific name of *Asplenium dielfalcatum* from (=falcate) to (=falcata); we also correct a typographic error in the common name of *Mezoneuron kavaense* by changing uhi uhi to uhiuhi (following Wagner et al. 1999, p. 647). In addition, we change the scientific name of *Chamaesyce skottsbergii* var. *skottsbergii* to *Euphorbia skottsbergii* var. *skottsbergii*, change the scientific name of *Delissea rivularis* to *Cyanea rivularis*, change the scientific name of *Hedyotis cookiana* to *Kadua cookiana*, change the scientific name of *Limnanthes floccosa* ssp. *grandiflora* to *Limnanthes pumila* ssp. *grandiflora*, and change the common name of *Cyanea platyphylla* from hāhā to 'akū'akū (following Wagner et al. 1999, p. 459); the rationales for these taxonomic changes were previously presented in our direct final rule published on June 23, 2015 (80 FR 35860). On the List of Endangered and Threatened Plants, we change the common name of *Cyanea gibsonii* from "no common name" to hāhā (following Wagner et al. 1999, p. 437). This change in common name was previously published in our final critical habitat rule of March 30, 2016 (81 FR 17790).

In addition, on the List of Endangered and Threatened Wildlife, the listing rule citations for flying earwig Hawaiian damselfly (*Megalagrion nesiotus*) and Pacific Hawaiian damselfly (*Megalagrion pacificum*) are incorrect as currently printed, and we are changing them to reflect the actual listing rule of June 24, 2010 (75 FR 35990).

Finally, on the List of Endangered and Threatened Plants, *Cycas micronesica* (fadang, faadang) is incorrectly listed under the heading of "Flowering Plants." Existing headings on the List of Endangered and Threatened Plants include "Flowering Plants," "Conifers," "Ferns and Allies," and "Lichens." This species is a cycad in the family

Cycadaceae (80 FR 59424; October 1, 2015), which is a group of gymnosperm plants that is not included in the division Coniferae (conifers) but is more closely related to conifers than to flowering plants. This species is currently the only non-conifer gymnosperm listed under the Act. To accurately represent the classification of this species, we are revising the heading "Conifers" on the List of Endangered and Threatened Plants to "Conifers and Allies" and moving *Cycas micronesica* under that heading on the List.

### Required Determinations

#### Clarity of the Rule

We are required by Executive Orders 12866 and 12988 and by the Presidential Memorandum of June 1, 1998, to write all rules in plain language. This means that each rule we publish must:

- (a) Be logically organized;
- (b) Use the active voice to address readers directly;
- (c) Use clear language rather than jargon;
- (d) Be divided into short sections and sentences; and
- (e) Use lists and tables wherever possible.

If you feel that we have not met these requirements, send us comments by one of the methods listed in **ADDRESSES**. To help us to revise this rule, your comments should be as specific as possible.

#### National Environmental Policy Act

We have determined that environmental assessments and environmental impact statements, as defined under the authority of the National Environmental Policy Act of 1969 (42 U.S.C. 4321 *et seq.*), need not be prepared in connection with regulations issued pursuant to section 4(a) of the Act. We published a notice outlining our reasons for this determination in the **Federal Register** on October 25, 1983 (43 FR 49244).

#### Government-to-Government Relationship With Tribes

In accordance with the President's memorandum of April 29, 1994, "Government-to-Government Relations with Native American Tribal Governments" (59 FR 22951), Executive Order 13175, and the Department of the Interior's manual at 512 DM 2, we readily acknowledge our responsibility to communicate meaningfully with recognized Federal Tribes on a government-to-government basis. In accordance with Secretarial Order 3206 of June 5, 1997 (American

Indian Tribal Rights, Federal-Tribal Trust Responsibilities, and the Endangered Species Act), we readily acknowledge our responsibilities to work directly with Tribes in developing programs for healthy ecosystems, to acknowledge that Tribal lands are not subject to the same controls as Federal public lands, to remain sensitive to Indian culture, and to make information available to Tribes. We have determined that this rule will not affect Tribes or Tribal lands.

### References Cited

A complete list of the referenced materials is provided in Docket No FWS-R1-ES-2022-0062 at <https://www.regulations.gov>, or is available upon request from the U.S. Fish and Wildlife Service (see **FOR FURTHER INFORMATION CONTACT**).

### List of Subjects in 50 CFR Part 17

Endangered and threatened species, Exports, Imports, Plants, Reporting and recordkeeping requirements, Transportation, Wildlife.

### Regulation Promulgation

For the reasons given in the preamble, we amend part 17, subchapter B of chapter I, title 50 of the Code of Federal Regulations, as set forth below:

## PART 17—ENDANGERED AND THREATENED WILDLIFE AND PLANTS

- 1. The authority citation for part 17 continues to read as follows:

**Authority:** 16 U.S.C. 1361–1407; 1531–1544; and 4201–4245, unless otherwise noted.

- 2. Amend § 17.11, in paragraph (h), the List of Endangered and Threatened Wildlife, by:

- a. Under MAMMALS, revising the entry for "Bat, Hawaiian hoary";
- b. Under BIRDS:
  - i. Adding, in alphabetical order, entries for "Akohekohe (crested honeycreeper)" and "Alauahio, Oahu";
  - ii. Revising the entries for "Coot, Hawaiian" and "Creeper, Hawaii";
  - iii. Removing the entry for "Creeper, Oahu";
  - iv. Revising the entries for "Crow, Hawaiian", "Crow, Mariana", "Duck, Hawaiian", "Finch, Laysan", and "Finch, Nihoa";
  - v. Removing the entry for "Honeycreeper, crested (Akohekohe)";
  - vi. Adding, in alphabetical order, an entry for "Kingfisher, Guam (sihek)";
  - vii. Removing the entries for "Kingfisher, Guam Micronesian" and "Megapode, Micronesian (=La Perouse's)";

- viii. Adding, in alphabetical order, an entry for “Megapode, Micronesian (sasangat)”;
- ix. Revising the entry for “Moorhen, Mariana common”;
- x. Adding, in alphabetical order, an entry for “Olomao, Molokai”;
- xi. Revising the entry for “Petrel, Hawaiian”;
- xii. Adding, in alphabetical order, an entry for “Puaiohi”;
- xiii. Revising both entries for “Rail, Guam”;
- xiv. Removing the entry for “Shearwater, Newell’s Townsend’s”;

- xv. Adding, in alphabetical order, an entry for “Shearwater, Newell’s (ao)”;
- xvi. Revising the entry for “Storm-petrel, band-rumped (Hawaii DPS)”;
- xvii. Adding, in alphabetical order, an entry for “Swiftlet, Mariana (yayaguak)”;
- xviii. Removing the entries for “Swiftlet, Mariana gray”, “Thrush, Molokai”, and “Thrush, small Kauai”;
- xix. Adding, in alphabetical order, an entry for “White-eye, Rota (nosa Luta)”;
- xx. Removing the entry for “White-eye, Rota bridled”;

- c. Under SNAILS, revising the entries for “Limpet, Banbury Springs” and “Snail, Snake River physa”;
- d. Under INSECTS, revising the entries for “Damselfly, flying earwig Hawaiian” and “Damselfly, Pacific Hawaiian”.

The additions and revisions read as follows:

**§ 17.11 Endangered and threatened wildlife.**

\* \* \* \* \*  
(h) \* \* \*

Common name	Scientific name	Where listed	Status	Listing citations and applicable rules
MAMMALS				
Bat, Hawaiian hoary (opeapea)	<i>Aeorestes semotus</i>	Wherever found	E	35 FR 16047, 10/13/1970.
BIRDS				
Akohekohe (crested honeycreeper)	<i>Palmeria dolei</i>	Wherever found	E	32 FR 4001, 3/11/1967; 50 CFR 17.95(b). <sup>CH</sup>
Alauahio, Oahu	<i>Paroreomyza maculata</i>	Wherever found	E	35 FR 16047, 10/13/1970.
Coot, Hawaiian (alae keokeo)	<i>Fulica alai</i>	Wherever found	E	35 FR 16047, 10/13/1970.
Creeper, Hawaii (alawi)	<i>Loxops mana</i>	Wherever found	E	40 FR 44149, 9/25/1975.
Crow, Hawaiian (alala)	<i>Corvus hawaiiensis</i>	Wherever found	E	32 FR 4001, 3/11/1967.
Crow, Mariana (aga)	<i>Corvus kubaryi</i>	Wherever found	E	49 FR 33881, 8/27/1984; 50 CFR 17.95(b). <sup>CH</sup>
Duck, Hawaiian (koloa maoli)	<i>Anas wyvilliana</i>	Wherever found	E	32 FR 4001, 3/11/1967.
Finch, Laysan	<i>Telespiza cantans</i>	Wherever found	E	32 FR 4001, 3/11/1967.
Finch, Nihoa	<i>Telespiza ultima</i>	Wherever found	E	32 FR 4001, 3/11/1967.
Kingfisher, Guam (sihek)	<i>Todiramphus cinnamominus</i>	Wherever found	E	49 FR 33881, 8/27/1984; 50 CFR 17.95(b). <sup>CH</sup>
Megapode, Micronesian (sasangat)	<i>Megapodius laperouse</i>	Wherever found	E	35 FR 8491, 6/2/1970.
Moorhen, Mariana common (pulattat)	<i>Gallinula chloropus guami</i>	Wherever found	E	49 FR 33881, 8/27/1984.
Olomao, Molokai	<i>Myadestes lanaiensis rutha</i>	Wherever found	E	35 FR 16047, 10/13/1970.
Petrel, Hawaiian (uau)	<i>Pterodroma sandwichensis</i>	Wherever found	E	32 FR 4001, 3/11/1967.
Puaiohi	<i>Myadestes palmeri</i>	Wherever found	E	32 FR 4001, 3/11/1967.
Rail, Guam (koko)	<i>Gallirallus owstoni</i>	Wherever found, except where listed as an experimental population.	E	49 FR 33881, 8/27/1984.
Rail, Guam (koko)	<i>Gallirallus owstoni</i>	Rota	XN	54 FR 43966, 10/30/1989; 50 CFR 17.84(f). <sup>1Q</sup>
Shearwater, Newell’s (ao)	<i>Puffinus newelli</i>	Wherever found	T	40 FR 44149, 9/25/1975.
Storm-petrel, band-rumped (akeake) [Hawaii DPS].	<i>Hydrobates castro</i>	U.S.A. (HI)	E	81 FR 67786, 9/30/2016.

Common name	Scientific name	Where listed	Status	Listing citations and applicable rules
* Swiftlet, Mariana (yayaguak) .....	* <i>Aerodramus bartschi</i> .....	* Wherever found .....	* E	* 49 FR 33881, 8/27/1984.
* White-eye, Rota (nosa Luta) .....	* <i>Zosterops rotensis</i> .....	* Wherever found .....	* E	* 69 FR 3022, 1/22/2004; 50 CFR 17.95(b). <sup>CH</sup>
		* SNAILS		
* Limpet, Banbury Springs .....	* <i>Idaholanx fresti</i> .....	* Wherever found .....	* E	* 57 FR 59244, 12/14/1992.
* Snail, Snake River physa .....	* <i>Physella natricina</i> .....	* Wherever found .....	* E	* 57 FR 59244, 12/14/1992.
		* INSECTS		
* Damselfly, flying earwig Hawaiian ....	* <i>Megalagrion nesiotus</i> .....	* Wherever found .....	* E	* 75 FR 35990, 6/24/2010; 50 CFR 17.95(i). <sup>CH</sup>
* Damselfly, Pacific Hawaiian .....	* <i>Megalagrion pacificum</i> .....	* Wherever found .....	* E	* 75 FR 35990, 6/24/2010; 50 CFR 17.95(i). <sup>CH</sup>

■ 3. Amend § 17.12, in paragraph (h), the List of Endangered and Threatened Plants, by:

■ a. Under FLOWERING PLANTS:

■ i. Revising the entries for “*Abutilon menziesii*”, “*Argyroxiphium sandwicense* ssp. *macrocephalum*”, and “*Argyroxiphium sandwicense* ssp. *sandwicense*”;

■ ii. Removing the entry for “*Chamaesyce skottsbergii* var. *skottsbergii*”;

■ iii. Revising the entry for “*Cyanea gibsonii*”;

■ iv. Adding, in alphabetical order, an entry for “*Cyanea humboldtiana*”;

■ v. Removing the entry for “*Cyanea humboldtiana*”;

■ vi. Revising the entry for “*Cyanea platyphylla*”;

■ vii. Adding, in alphabetical order, an entry for “*Cyanea rivularis*”;

■ viii. Removing the entry for “*Cycas micronesica*”;

■ ix. Revising the entry for “*Cyrtandra crenata*”;

■ x. Adding, in alphabetical order, an entry for “*Cyrtandra kealiae* ssp. *kealiae*”;

■ xi. Removing the entries for “*Cyrtandra limahuliensis*” and “*Delissea rivularis*”;

■ xii. Adding, in alphabetical order, entries for “*Dracaena fernaldii*”, “*Dracaena*

*konaensis*”, and “*Euphorbia skottsbergii* var. *skottsbergii*”;

■ xiii. Revising the entry for “*Gardenia brighamii*”;

■ xiv. Removing the entry for “*Hedyotis cookiana*”;

■ xv. Adding, in alphabetical order, an entry for “*Kadua cookiana*”;

■ xvi. Revising the entries for “*Kanaloa kahoolawensis*”, “*Kokia cookei*”, “*Kokia drynarioides*”, and “*Kokia kauaiensis*”;

■ xvii. Removing the entry for “*Limnanthes floccosa* ssp. *grandiflora*”;

■ xviii. Adding, in alphabetical order, entries for “*Limnanthes pumila* ssp. *grandiflora*”, “*Melicope cornuta* var. *cornuta*”, “*Melicope cornuta* var. *decurrens*”, “*Melicope remyi*”, and “*Melicope rostrata*”;

■ xix. Revising the entry for “*Mezoneuron kavaiense*”;

■ xx. Adding, in alphabetical order, an entry for “*Mucuna persericea*”;

■ xxi. Removing the entries for “*Mucuna sloanei* var. *persericea*” and “*Plantago hawaiiensis*”;

■ xxii. Adding, in alphabetical order, an entry for “*Plantago hawaiiensis*”;

■ xxiii. Removing the entries for “*Platydesma cornuta* var. *cornuta*”, “*Platydesma cornuta* var. *decurrens*”, “*Platydesma rostrata*”, “*Pleomele fernaldii*”, “*Pleomele forbesii*”, “*Pleomele hawaiiensis*”, and “*Psychotria hexandra* ssp. *oahuensis*”; and

■ xxiv. Adding, in alphabetical order, an entry for “*Psychotria hexandra* var. *oahuensis*”;

■ b. Revising the heading CONIFERS to read CONIFERS AND ALLIES;

■ c. Under CONIFERS AND ALLIES, adding, in alphabetical order, an entry for “*Cycas micronesica*”; and

■ d. Under FERNS AND ALLIES:

■ i. Revising the entries for “*Adenophorus perians*” and “*Asplenium dielrectum*”;

■ ii. Removing the entries for “*Asplenium* (= *Diellia*) *dielfalcatum* (= *falcate*)” and “*Asplenium* (= *Diellia*) *dielpallicum* (= *pallida*)”;

■ iii. Adding, in alphabetical order, entries for “*Asplenium* (= *Diellia*) *dielfalcatum* (= *falcata*)” and “*Asplenium* (= *Diellia*) *dielpallidum* (= *pallida*)”;

■ iv. Removing the entries for “*Cyclosorus boydiae*”, “*Huperzia mannii*”, “*Huperzia nutans*”, and “*Huperzia stemmermanniae*”; and

■ v. Adding, in alphabetical order, entries for “*Menisciopsis boydiae*”, “*Phlegmariurus mannii*”, “*Phlegmariurus nutans*”, and “*Phlegmariurus stemmermanniae*”.

The revisions and additions read as follows:

**§ 17.12 Endangered and threatened plants.**

\* \* \* \* \*

(h) \* \* \*

Scientific name	Common name	Where listed	Status	Listing citations and applicable rules
<b>Flowering Plants</b>				
<i>Abutilon menziesii</i>	Kooloaula	Wherever found	E	51 FR 34412, 9/26/1986.
<i>Argyroxiphium sandwicense</i> ssp. <i>macrocephalum</i> .	Ahinahina	Wherever found	T	57 FR 20772, 5/15/1992; 50 CFR 17.99(e)(1). <sup>CH</sup>
<i>Argyroxiphium sandwicense</i> ssp. <i>sandwicense</i> .	Ahinahina	Wherever found	E	51 FR 9814, 3/21/1986.
<i>Cyanea gibsonii</i>	Haha	Wherever found	E	56 FR 47686, 9/20/1991.
<i>Cyanea humboldtiana</i>	Haha	Wherever found	E	61 FR 53089, 10/10/1996; 50 CFR 17.99(i). <sup>CH</sup>
<i>Cyanea platyphylla</i>	Haha, akuaku	Wherever found	E	61 FR 53137, 10/10/1996; 50 CFR 17.99(k). <sup>CH</sup>
<i>Cyanea rivularis</i>	Haha	Wherever found	E	61 FR 53070, 10/10/1996; 50 CFR 17.99(a)(1). <sup>CH</sup>
<i>Cyrtandra crenata</i>	Haiwale	Wherever found	E	59 FR 14482, 3/28/1994.
<i>Cyrtandra kealiae</i> ssp. <i>kealiae</i>	Haiwale	Wherever found	T	59 FR 9304, 2/25/1994; 50 CFR 17.99(a)(1). <sup>CH</sup>
<i>Dracaena fernaldii</i>	Hala pepe	Wherever found	E	78 FR 32014, 5/28/2013.
<i>Dracaena forbesii</i>	Hala pepe	Wherever found	E	77 FR 57648, 9/18/2012; 50 CFR 17.99(i). <sup>CH</sup>
<i>Dracaena konaensis</i>	Hala pepe	Wherever found	E	61 FR 53137, 10/10/1996; 50 CFR 17.99(k). <sup>CH</sup>
<i>Euphorbia skottsbergii</i> var. <i>skottsbergii</i>	Akoko	Wherever found	E	47 FR 36846, 8/24/1982; 50 CFR 17.99(i). <sup>CH</sup>
<i>Gardenia brighamii</i>	Nanu	Wherever found	E	50 FR 33728, 8/21/1985.
<i>Kadua cookiana</i>	Awiwi	Wherever found	E	59 FR 9304, 2/25/1994; 50 CFR 17.99(a)(1). <sup>CH</sup>
<i>Kanaloa kahoolawensis</i>	Ka palupalu o Kanaloa, Kohe malama malama o Kanaloa.	Wherever found	E	64 FR 48307, 9/3/1999; 50 CFR 17.99(e)(2). <sup>CH</sup>
<i>Kokia cookei</i>	Kokio	Wherever found	E	44 FR 62470, 10/30/1979; 50 CFR 17.99(c). <sup>CH</sup>
<i>Kokia drynarioides</i>	Kokio	Wherever found	E	49 FR 47397, 12/4/1984; 50 CFR 17.96(a). <sup>CH</sup>
<i>Kokia kauaiensis</i>	Kokio	Wherever found	E	61 FR 53070, 10/10/1996; 50 CFR 17.99(a)(1). <sup>CH</sup>
<i>Limnanthes pumila</i> ssp. <i>grandiflora</i>	Large-flowered woolly meadowfoam	Wherever found	E	67 FR 68004, 11/7/2002; 50 CFR 17.96(a). <sup>CH</sup>
<i>Melicope cornuta</i> var. <i>cornuta</i>	No common name	Wherever found	E	77 FR 57648, 9/18/2012; 50 CFR 17.99(i). <sup>CH</sup>
<i>Melicope cornuta</i> var. <i>decurrens</i>	No common name	Wherever found	E	77 FR 57648, 9/18/2012; 50 CFR 17.99(i). <sup>CH</sup>
<i>Melicope remyi</i>	No common name	Wherever found	E	78 FR 64638, 10/29/2013.
<i>Melicope rostrata</i>	Pilo kea lau lii	Wherever found	E	75 FR 18960, 4/13/2010; 50 CFR 17.99(a)(1). <sup>CH</sup>
<i>Mezoneuron kavaiense</i>	Uhiuhi	Wherever found	E	51 FR 24672, 7/8/1986.
<i>Mucuna persericea</i>	Sea bean	Wherever found	E	78 FR 32014, 5/28/2013; 50 CFR 17.99(e)(1). <sup>CH</sup>
<i>Plantago hawaiiensis</i>	Laukahi kuahiwi	Wherever found	E	59 FR 10305, 3/4/1994; 50 CFR 17.99(k). <sup>CH</sup>
<i>Psychotria hexandra</i> var. <i>oahuensis</i>	Kopiko	Wherever found	E	77 FR 57648, 9/18/2012; 50 CFR 17.99(i). <sup>CH</sup>

Scientific name	Common name	Where listed	Status	Listing citations and applicable rules
<b>Conifers and Allies</b>				
<i>Cycas micronesica</i>	Fadang, faadang	Wherever found	T	80 FR 59424, 10/1/2015.
<b>Ferns and Allies</b>				
<i>Adenophorus periens</i>	Palai laau	Wherever found	E	59 FR 56333, 11/10/1994; 50 CFR 17.99(a)(1); <sup>CH</sup> 50 CFR 17.99(e)(1); <sup>CH</sup> 50 CFR 17.99(i); <sup>CH</sup> 50 CFR 17.99(k). <sup>CH</sup>
<i>Asplenium dielirectum</i>	No common name	Wherever found	E	59 FR 56333, 11/10/1994; 50 CFR 17.99(a)(1); <sup>CH</sup> 50 CFR 17.99(c); <sup>CH</sup> 50 CFR 17.99(e)(1); <sup>CH</sup> 50 CFR 17.99(i); <sup>CH</sup> 50 CFR 17.99(k). <sup>CH</sup>
<i>Asplenium (=Diellia) dielfalcatum (=falcata)</i>	No common name	Wherever found	E	56 FR 55770, 10/29/1991; 50 CFR 17.99(i). <sup>CH</sup>
<i>Asplenium (=Diellia) dielpallidum (=pallida)</i>	No common name	Wherever found	E	59 FR 9304, 2/25/1994; 50 CFR 17.99(a)(1). <sup>CH</sup>
<i>Menisciopsis boydiae</i>	Kupukupu makalii	Wherever found	E	81 FR 67786, 9/30/2016.
<i>Phlegmariurus mannii</i>	Wawaeiole	Wherever found	E	57 FR 20772, 5/15/1992; 50 CFR 17.99(e)(1). <sup>CH</sup>
<i>Phlegmariurus nutans</i>	Wawaeiole	Wherever found	E	59 FR 14482, 3/28/1994; 50 CFR 17.99(a)(1); <sup>CH</sup> 50 CFR 17.99(i). <sup>CH</sup>
<i>Phlegmariurus stemmermanniae</i>	No common name	Wherever found	E	81 FR 67786, 9/30/2016.

**§ 17.84 [Amended]**

- 4. In § 17.84, amend paragraph (f) introductory text by removing the word “*Rallus*” and adding in its place the word “*Gallirallus*”.
- 5. Amend § 17.95, in paragraph (b), by:
  - a. In the entry “Guam Micronesian Kingfisher (*Halcyon cinnamomina cinnamomina*)”:
  - i. Removing the heading “Guam Micronesian Kingfisher (*Halcyon cinnamomina cinnamomina*)” and adding in its place the heading “Guam Kingfisher (*Todiramphus cinnamominus*)”;
  - ii. In paragraph (1) and the introductory text of paragraph (2), removing the word “Micronesian”;
  - iii. Revising the introductory text of paragraph (4)(i);
  - iv. In the introductory text of paragraph (4)(ii), removing the word “Micronesian”; and
  - v. Revising the introductory text of paragraph (4)(ii)(B); and
  - b. In the entry “Rota Bridled White-eye (*Zosterops rotensis*)”:
  - i. Removing the heading “Rota Bridled White-eye (*Zosterops rotensis*)”

- and adding in its place the heading “Rota White-eye (*Zosterops rotensis*)”;
  - ii. In the introductory text of paragraphs (2) and (5), removing the word “bridled”; and
  - iii. Revising the introductory text of paragraph (5)(ii).  
The revisions read as follows:
- § 17.95 Critical habitat—fish and wildlife.**
- \* \* \* \* \*
- (b) *Birds.*
- \* \* \* \* \*
- Guam Kingfisher (*Todiramphus cinnamominus*)
- \* \* \* \* \*
- (4) \* \* \*
- (i) *Note:* The reference to “Guam Micronesian Kingfisher” on the map is equivalent to “Guam Kingfisher.” Map 1 showing the general location of the Guam kingfisher unit follows:
- \* \* \* \* \*
- (ii) \* \* \*
- (B) *Note:* The reference to “Guam Micronesian Kingfisher” on the map is equivalent to “Guam Kingfisher.” Map 2 showing Guam kingfisher unit follows:
- \* \* \* \* \*

- Rota White-eye (*Zosterops rotensis*)
- \* \* \* \* \*
- (5) \* \* \*
- (ii) *Note:* The reference to “Rota Bridled White-eye” on the map is equivalent to “Rota White-eye.” Map 1 of the critical habitat for Rota white-eye follows:
- \* \* \* \* \*
- 6. Amend § 17.96, in paragraph (a), the entry for “Family Limnanthaceae: *Limnanthes floccosa* ssp. *grandiflora* (large-flowered woolly meadowfoam)”, by:
  - a. Removing the heading “Family Limnanthaceae: *Limnanthes floccosa* ssp. *grandiflora* (large-flowered woolly meadowfoam)” and adding in its place the heading “Family Limnanthaceae: *Limnanthes pumila* ssp. *grandiflora* (large-flowered woolly meadowfoam)”;
  - b. In the introductory text of paragraphs (2) and (2)(i), and in paragraph (2)(iv), removing the word “*floccosa*” and adding in its place the word “*pumila*”;
  - c. Revising the introductory text of paragraph (5);
  - d. In the introductory text of paragraph (6), removing the word

“*floccosa*” and adding in its place the word “*pumila*”;

- e. Revising the introductory text of paragraph (6)(ii);
- f. In the introductory text of paragraph (7), removing the word “*floccosa*” and adding in its place the word “*pumila*”;
- g. Revising the introductory text of paragraph (7)(ii);
- h. In the introductory text of paragraph (8), removing the word “*floccosa*” and adding in its place the word “*pumila*”;
- i. Revising the introductory text of paragraph (8)(ii);
- j. In the introductory text of paragraph (9), removing the word “*floccosa*” and adding in its place the word “*pumila*”;
- k. Revising the introductory text of paragraph (9)(ii);
- l. In the introductory text of paragraph (10), removing the word “*floccosa*” and adding in its place the word “*pumila*”;
- m. Revising the introductory text of paragraph (10)(ii);
- n. In the introductory text of paragraphs (11) and (11)(i), removing the word “*floccosa*” and adding in its place the word “*pumila*”;
- o. Revising the introductory text of paragraph (11)(ii);
- p. In the introductory text of paragraph (12), removing the word “*floccosa*” and adding in its place the word “*pumila*”;
- q. Revising the introductory text of paragraph (12)(ii);
- r. In the introductory text of paragraph (13), removing the word “*floccosa*” and adding in its place the word “*pumila*”; and
- s. Revising the introductory text of paragraph (13)(ii).

The revisions read as follows:

#### § 17.96 Critical habitat—plants.

##### (a) Flowering plants.

\* \* \* \* \*

Family Limnanthaceae: *Limnanthes pumila* ssp. *grandiflora* (large-flowered woolly meadowfoam)

\* \* \* \* \*

(5) Note: The reference to “*Limnanthes floccosa* ssp. *grandiflora*” on the map is equivalent to “*Limnanthes pumila* ssp. *grandiflora*.” Index map for critical habitat in Jackson County, Oregon, follows:

\* \* \* \* \*

(6) \* \* \*

(ii) Note: The reference to “*Limnanthes floccosa* ssp. *grandiflora*” on the map is equivalent to “*Limnanthes pumila* ssp. *grandiflora*.” Map of Unit RV1 follows:

\* \* \* \* \*

(7) \* \* \*

(ii) Note: The reference to “*Limnanthes floccosa* ssp. *grandiflora*”

on the map is equivalent to “*Limnanthes pumila* ssp. *grandiflora*.”

Map of Unit RV2 follows:

\* \* \* \* \*

(8) \* \* \*

(ii) Note: The reference to “*Limnanthes floccosa* ssp. *grandiflora*” on the map is equivalent to “*Limnanthes pumila* ssp. *grandiflora*.”

Map of Unit RV3 follows:

\* \* \* \* \*

(9) \* \* \*

(ii) Note: The reference to “*Limnanthes floccosa* ssp. *grandiflora*” on the map is equivalent to “*Limnanthes pumila* ssp. *grandiflora*.”

Map of Unit RV4 follows:

\* \* \* \* \*

(10) \* \* \*

(ii) Note: The reference to “*Limnanthes floccosa* ssp. *grandiflora*” on the map is equivalent to “*Limnanthes pumila* ssp. *grandiflora*.”

Map of Unit RV5 follows:

\* \* \* \* \*

(11) \* \* \*

(ii) Note: The reference to “*Limnanthes floccosa* ssp. *grandiflora*” on the map is equivalent to “*Limnanthes pumila* ssp. *grandiflora*.”

Map of Unit RV6 follows:

\* \* \* \* \*

(12) \* \* \*

(ii) Note: The reference to “*Limnanthes floccosa* ssp. *grandiflora*” on the map is equivalent to “*Limnanthes pumila* ssp. *grandiflora*.”

Map of Unit RV7 follows:

\* \* \* \* \*

(13) \* \* \*

(ii) Note: The reference to “*Limnanthes floccosa* ssp. *grandiflora*” on the map is equivalent to “*Limnanthes pumila* ssp. *grandiflora*.”

Map of Unit RV8 follows:

\* \* \* \* \*

■ 7. Amend § 17.99 as follows:

- a. In paragraph (a)(1), by:
- i. In paragraph (a)(1)(vi)(A), removing the words “*Kauai 4—Platydesma rostrata—*a**” and adding in their place the words “*Kauai 4—Melicope rostrata—*a**”;
- ii. Revising paragraph (a)(1)(vi)(B) introductory text;
- iii. In paragraph (a)(1)(xiv) introductory text, removing the words “*Kauai 4—Cyrtandra limahuliensis—*a**” and adding in their place the words “*Kauai 4—Cyrtandra kealiae* ssp. *kealiae—*a**”;
- iv. Revising paragraph (a)(1)(xiv)(B) introductory text;
- v. In paragraph (a)(1)(xv) introductory text, removing the words “*Kauai 4—Cyrtandra limahuliensis—*b**” and adding in their place the words “*Kauai 4—Cyrtandra kealiae* ssp. *kealiae—*b**”;

- vi. Revising paragraph (a)(1)(xv)(B) introductory text;
- vii. In paragraph (a)(1)(xxix) introductory text, removing the words “*Kauai 4—Platydesma rostrata—*a**” and adding in their place the words “*Kauai 4—Melicope rostrata—*a**”;
- viii. In paragraph (a)(1)(xxxiv)(A), removing the words “*Kauai 7—Platydesma rostrata—*b**” and adding in their place the words “*Kauai 7—Melicope rostrata—*b**”;
- ix. Revising paragraph (a)(1)(xxxiv)(B) introductory text;
- x. In paragraph (a)(1)(xliv) introductory text, removing the words “*Kauai 7—Platydesma rostrata—*b**” and adding in their place the words “*Kauai 7—Melicope rostrata—*b**”;
- xi. In paragraph (a)(1)(lvii)(A), removing the words “*Kauai 10—Platydesma rostrata—*c**” and adding in their place the words “*Kauai 10—Melicope rostrata—*c**”;
- xii. Revising paragraph (a)(1)(lvii)(B) introductory text;
- xiii. In paragraph (a)(1)(lix)(A), removing the words “*Kauai 10—Platydesma rostrata—*d**” and adding in their place the words “*Kauai 10—Melicope rostrata—*d**”;
- xiv. Revising paragraph (a)(1)(lix)(B) introductory text;
- xv. In paragraph (a)(1)(lx)(A), removing the words “*Kauai 10—Platydesma rostrata—*e**” and adding in their place the words “*Kauai 10—Melicope rostrata—*e**”;
- xvi. Revising paragraph (a)(1)(lx)(B) introductory text;
- xvii. In paragraph (a)(1)(lxxii) introductory text, removing the words “*Kauai 10—Cyrtandra limahuliensis—*c**” and adding in their place the words “*Kauai 10—Cyrtandra kealiae* ssp. *kealiae—*c**”;
- xviii. Revising paragraph (a)(1)(lxxii)(B) introductory text;
- xix. In paragraph (a)(1)(civ) introductory text, removing the words “*Kauai 10—Huperzia nutans—*a**” and adding in their place the words “*Kauai 10—Phlegmariurus nutans—*a**”;
- xx. Revising paragraph (a)(1)(civ)(B) introductory text;
- xxi. In paragraph (a)(1)(cviii) introductory text, removing the words “*Kauai 10—Platydesma rostrata—*c**” and adding in their place the words “*Kauai 10—Melicope rostrata—*c**”;
- xxii. In paragraph (a)(1)(cix) introductory text, removing the words “*Kauai 10—Platydesma rostrata—*d**” and adding in their place the words “*Kauai 10—Melicope rostrata—*d**”;
- xxiii. In paragraph (a)(1)(cx) introductory text, removing the words “*Kauai 10—Platydesma rostrata—*e**” and adding in their place the words “*Kauai 10—Melicope rostrata—*e**”;

- xxiv. In paragraph (a)(1)(cxxx)(A), removing the words “Kauai 11—*Platydesma rostrata*—f” and adding in their place the words “Kauai 11—*Melicope rostrata*—f”;
- xxv. Revising paragraph (a)(1)(cxxx)(B) introductory text;
- xxvi. In paragraph (a)(1)(cxxxiii)(A), removing the words “Kauai 11—*Platydesma rostrata*—g” and adding in their place the words “Kauai 11—*Melicope rostrata*—g”;
- xxvii. Revising paragraph (a)(1)(cxxxiii)(B) introductory text;
- xxviii. In paragraph (a)(1)(cxl)(A), removing the words “Kauai 11—*Platydesma rostrata*—h” and adding in their place the words “Kauai 11—*Melicope rostrata*—h”;
- xxix. Revising paragraph (a)(1)(cxl)(B) introductory text;
- xxx. In paragraph (a)(1)(cxli)(A), removing the words “Kauai 11—*Platydesma rostrata*—i” and adding in their place the words “Kauai 11—*Melicope rostrata*—i”;
- xxxi. Revising paragraph (a)(1)(cxli)(B) introductory text;
- xxxii. In paragraph (a)(1)(cxlvi)(A), removing the words “Kauai 11—*Platydesma rostrata*—j” and adding in their place the words “Kauai 11—*Melicope rostrata*—j”;
- xxxiii. Revising paragraph (a)(1)(cxlvi)(B) introductory text;
- xxxiv. In paragraph (a)(1)(clxi) introductory text, removing the words “Kauai 11—*Cyrtandra limahuliensis*—d” and adding in their place the words “Kauai 11—*Cyrtandra kealiae* ssp. *kealiae*—d”;
- xxxv. Revising paragraph (a)(1)(clxi)(B) introductory text;
- xxxvi. In paragraph (a)(1)(clxii) introductory text, removing the words “Kauai 11—*Cyrtandra limahuliensis*—e” and adding in their place the words “Kauai 11—*Cyrtandra kealiae* ssp. *kealiae*—e”;
- xxxvii. Revising paragraph (a)(1)(clxii)(B) introductory text;
- xxxviii. In paragraph (a)(1)(clxviii) introductory text, removing the words “Kauai 11—*Delissea rivularis*—a” and adding in their place the words “Kauai 11—*Cyanea rivularis*—a”;
- xxxix. Revising paragraph (a)(1)(clxviii)(B) introductory text;
- xl. In paragraph (a)(1)(clxxiii) introductory text, removing the words “Kauai 11—*Diellia pallida*—a” and adding in their place the words “Kauai 11—*Asplenium dielpallidum*—a”;
- xli. Revising paragraph (a)(1)(clxxiii)(B) introductory text;
- xlii. In paragraph (a)(1)(clxxiv) introductory text, removing the words “Kauai 11—*Diellia pallida*—b” and adding in their place the words “Kauai 11—*Asplenium dielpallidum*—b”;
- xliii. Revising paragraph (a)(1)(clxxiv)(B) introductory text;
- xliv. In paragraph (a)(1)(cciii) introductory text, removing the words “Kauai 11—*Hedyotis cookiana*—a” and adding in their place the words “Kauai 11—*Kadua cookiana*—a”;
- xlv. Revising paragraph (a)(1)(cciii)(B) introductory text;
- xlvi. In paragraph (a)(1)(cclxxvii) introductory text, removing the words “Kauai 11—*Platydesma rostrata*—f” and adding in their place the words “Kauai 11—*Melicope rostrata*—f”;
- xlvi. In paragraph (a)(1)(cclxxviii) introductory text, removing the words “Kauai 11—*Platydesma rostrata*—g” and adding in their place the words “Kauai 11—*Melicope rostrata*—g”;
- xlvi. In paragraph (a)(1)(cclxxix) introductory text, removing the words “Kauai 11—*Platydesma rostrata*—h” and adding in their place the words “Kauai 11—*Melicope rostrata*—h”;
- xlix. In paragraph (a)(1)(cclxxx) introductory text, removing the words “Kauai 11—*Platydesma rostrata*—i” and adding in their place the words “Kauai 11—*Melicope rostrata*—i”;
- l. In paragraph (a)(1)(cclxxxi) introductory text, removing the words “Kauai 11—*Platydesma rostrata*—j” and adding in their place the words “Kauai 11—*Melicope rostrata*—j”;
- li. In paragraph (a)(1)(cccli)(A), removing the words “Kauai 18—*Platydesma rostrata*—k” and adding in their place the words “Kauai 18—*Melicope rostrata*—k”;
- lii. Revising paragraph (a)(1)(cccli)(B) introductory text;
- liii. In paragraph (a)(1)(ccclx) introductory text, removing the words “Kauai 18—*Platydesma rostrata*—k” and adding in their place the words “Kauai 18—*Melicope rostrata*—k”;
- liv. In paragraph (a)(1)(ccclxi)(A), removing the words “Kauai 19—*Platydesma rostrata*—l” and adding in their place the words “Kauai 19—*Melicope rostrata*—l”;
- lv. Revising paragraph (a)(1)(ccclxi)(B) introductory text;
- lvi. In paragraph (a)(1)(ccclxx) introductory text, removing the words “Kauai 19—*Platydesma rostrata*—l” and adding in their place the words “Kauai 19—*Melicope rostrata*—l”;
- lvii. In paragraph (a)(1)(ccclxxi)(A), removing the words “Kauai 20—*Platydesma rostrata*—m” and adding in their place the words “Kauai 20—*Melicope rostrata*—m”;
- lviii. Revising paragraph (a)(1)(ccclxxi)(B) introductory text;
- lix. In paragraph (a)(1)(ccclxxiii) introductory text, removing the words “Kauai 20—*Platydesma rostrata*—m” and adding in their place the words “Kauai 20—*Melicope rostrata*—m”;
- lx. In paragraph (a)(1)(ccclxxxvii)(A), removing the words “Kauai 21—*Platydesma rostrata*—n” and adding in their place the words “Kauai 21—*Melicope rostrata*—n”;
- lxi. Revising paragraph (a)(1)(ccclxxxvii)(B) introductory text;
- lxii. In paragraph (a)(1)(cccxcii) introductory text, “Kauai 21—*Platydesma rostrata*—o” and adding in their place the words “Kauai 21—*Melicope rostrata*—n”;
- lxiii. In paragraph (a)(1)(cccxcvi)(A), removing the words “Kauai 22—*Platydesma rostrata*—o” and adding in their place the words “Kauai 22—*Melicope rostrata*—o”;
- lxiv. Revising paragraph (a)(1)(cccxcvi)(B) introductory text;
- lxv. In paragraph (a)(1)(cdi) introductory text, removing the words “Kauai 22—*Platydesma rostrata*—o” and adding in their place the words “Kauai 22—*Melicope rostrata*—o”;
- lxvi. In paragraph (a)(1)(cdv)(A), removing the words “Kauai 23—*Platydesma rostrata*—p” and adding in their place the words “Kauai 23—*Melicope rostrata*—p”;
- lxvii. Revising paragraph (a)(1)(cdv)(B) introductory text;
- lxviii. In paragraph (a)(1)(cdxx) introductory text, removing the words “Kauai 23—*Platydesma rostrata*—p” and adding in their place the words “Kauai 23—*Melicope rostrata*—p”;
- lxix. In paragraph (a)(1)(cdxxiii)(A), removing the words “Kauai 24—*Platydesma rostrata*—q” and adding in their place the words “Kauai 24—*Melicope rostrata*—q”;
- lxx. Revising paragraph (a)(1)(cdxxiii)(B) introductory text;
- lxxi. In paragraph (a)(1)(cdxxxviii) introductory text, removing the words “Kauai 24—*Platydesma rostrata*—q” and adding in their place the words “Kauai 24—*Melicope rostrata*—q”;
- lxxii. In paragraph (a)(1)(cdxli)(A), removing the words “Kauai 25—*Platydesma rostrata*—r” and adding in their place the words “Kauai 25—*Melicope rostrata*—r”;
- lxxiii. Revising paragraph (a)(1)(cdxli)(B) introductory text;
- lxxiv. In paragraph (a)(1)(cdlvi) introductory text, removing the words “Kauai 25—*Platydesma rostrata*—r” and adding in their place the words “Kauai 25—*Melicope rostrata*—r”;
- lxxv. In paragraph (a)(1)(cdlix), the Table of Protected Species Within Each Critical Habitat Unit for Kauai:
  - 1. Removing the entries for “Kauai 4—*Cyrtandra limahuliensis*—a”, “Kauai 4—*Cyrtandra limahuliensis*—b”, “Kauai 4—*Platydesma rostrata*—a”, “Kauai 7—*Platydesma rostrata*—b”, “Kauai 10—*Cyrtandra limahuliensis*—c”, “Kauai

10—*Huperzia nutans*—a”, “Kauai 10—*Platydesma rostrata*—c”, “Kauai 10—*Platydesma rostrata*—d”, “Kauai 10—*Platydesma rostrata*—e”, “Kauai 11—*Cyrtandra limahuliensis*—d”, “Kauai 11—*Cyrtandra limahuliensis*—e”, “Kauai 11—*Delissea rivularis*—a”, “Kauai 11—*Diellia pallida*—a”, “Kauai 11—*Hedyotis cookiana*—a”, “Kauai 11—*Platydesma rostrata*—f”, “Kauai 11—*Platydesma rostrata*—g”, “Kauai 11—*Platydesma rostrata*—h”, “Kauai 11—*Platydesma rostrata*—i”, “Kauai 11—*Platydesma rostrata*—j”, “Kauai 18—*Platydesma rostrata*—k”, “Kauai 19—*Platydesma rostrata*—l”, “Kauai 20—*Platydesma rostrata*—m”, “Kauai 21—*Platydesma rostrata*—n”, “Kauai 22—*Platydesma rostrata*—o”, “Kauai 23—*Platydesma rostrata*—p”, “Kauai 24—*Platydesma rostrata*—q”, and “Kauai 25—*Platydesma rostrata*—r”; and

■ 2. Adding, in order by unit number and then alphabetical order by scientific name within the unit, entries for “Kauai 4—*Cyrtandra kealiae* ssp. *kealiae*—a”, “Kauai 4—*Cyrtandra kealiae* ssp. *kealiae*—b”, “Kauai 4—*Melicope rostrata*—a”, “Kauai 7—*Melicope rostrata*—b”, “Kauai 10—*Cyrtandra kealiae* ssp. *kealiae*—c”, “Kauai 10—*Melicope rostrata*—d”, “Kauai 10—*Melicope rostrata*—e”, “Kauai 10—*Phlegmariurus nutans*—a”, “Kauai 11—*Asplenium dielpallidum*—a”, “Kauai 11—*Asplenium dielpallidum*—b”, “Kauai 11—*Cyanea rivularis*—a”, “Kauai 11—*Cyrtandra kealiae* ssp. *kealiae*—d”, “Kauai 11—*Cyrtandra kealiae* ssp. *kealiae*—e”, “Kauai 11—*Kadua cookiana*—a”, “Kauai 11—*Melicope rostrata*—f”, “Kauai 11—*Melicope rostrata*—g”, “Kauai 11—*Melicope rostrata*—h”, “Kauai 11—*Melicope rostrata*—i”, “Kauai 11—*Melicope rostrata*—j”, “Kauai 18—*Melicope rostrata*—k”, “Kauai 19—*Melicope rostrata*—l”, “Kauai 20—*Melicope rostrata*—m”, “Kauai 21—*Melicope rostrata*—n”, “Kauai 22—*Melicope rostrata*—o”, “Kauai 23—*Melicope rostrata*—p”, “Kauai 24—*Melicope rostrata*—q”, and “Kauai 25—*Melicope rostrata*—r”;

■ b. In paragraph (b)(1), by:

■ i. Removing the heading “Family Campanulaceae: *Delissea rivularis* (oha)” and adding in its place the heading “Family Campanulaceae: *Cyanea rivularis* (oha)”;

■ ii. Under the new heading “Family Campanulaceae: *Cyanea rivularis* (oha)”, in the introductory text:

■ 1. Removing the words “Kauai 11—*Delissea rivularis*—a” and adding in their place the words “Kauai 11—*Cyanea rivularis*—a”; and

■ 2. Removing the words “*Delissea rivularis*” and adding in their place the words “*Cyanea rivularis*”;

■ iii. Removing the heading “Family Gesneriaceae: *Cyrtandra limahuliensis* (haiwale)” and adding in its place the heading “Family Gesneriaceae: *Cyrtandra kealiae* ssp. *kealiae* (haiwale)”;

■ iv. Under the new heading “Family Gesneriaceae: *Cyrtandra kealiae* ssp. *kealiae* (haiwale)”, revising the introductory text;

■ v. Removing the heading “Family Rubiaceae: *Hedyotis cookiana* (awiwi)” and adding in its place the heading “Family Rubiaceae: *Kadua cookiana* (awiwi)”;

■ vi. Under the new heading “Family Rubiaceae: *Kadua cookiana* (awiwi)”, in the introductory text:

■ 1. Removing the words “Kauai 11—*Hedyotis cookiana*—a” and adding in their place the words “Kauai 11—*Kadua cookiana*—a”; and

■ 2. Removing the words “*Hedyotis cookiana*” and adding in their place the words “*Kadua cookiana*”;

■ vii. Removing the heading “Family Rutaceae: *Platydesma rostrata* (pilo kea lau lii)” and adding in its place the heading “Family Rutaceae: *Melicope rostrata* (pilo kea lau lii)”;

■ viii. Under the new heading “Family Rutaceae: *Melicope rostrata* (pilo kea lau lii)”, revising the entry’s introductory text and the introductory text of paragraphs (i), (ii), (iii), (iv), and (v);

■ c. In paragraph (b)(2), by:

■ i. Removing the heading “Family Aspleniaceae: *Asplenium diellectum* (asplenium-leaved diellia)” and adding in its place the heading “Family Aspleniaceae: *Asplenium diellectum* (no common name)”;

■ ii. Removing the heading “Family Aspleniaceae: *Diellia pallida* (no common name)” and adding in its place the heading “Family Aspleniaceae: *Asplenium dielpallidum* (no common name)”;

■ iii. Under the new heading “Family Aspleniaceae: *Asplenium dielpallidum* (no common name)”, revising the introductory text;

■ iv. Removing the heading “Family Grammitidaceae: *Adenophorus periens* (pendent kahi fern)” and adding in its place the heading “Family Grammitidaceae: *Adenophorus periens* (palai laau)”;

■ v. Removing the heading “Family Lycopodiaceae: *Huperzia nutans* (wawaeiole)” and adding in its place the heading “Family Lycopodiaceae: *Phlegmariurus nutans* (wawaeiole)”;

■ vi. Under the new heading “Family Lycopodiaceae: *Phlegmariurus nutans* (wawaeiole)”, in the introductory text:

■ 1. Removing the words “Kauai 10—*Huperzia nutans*—a” and adding in their place the words “Kauai 10—*Phlegmariurus nutans*—a”; and

■ 2. Removing the words “*Huperzia nutans*” and adding in their place the words “*Phlegmariurus nutans*”;

■ d. In paragraph (d)(1), under Family Malvaceae, by removing the heading “*Kokia cookei* (COOKE’S KOKIO)” and adding in its place the heading “*Kokia cookei* (KOKIO)”;

■ e. In paragraph (d)(2), by:

■ i. Under Family Aspleniaceae, removing the heading “*Asplenium diellectum* (ASPLENIUM-LEAVED DIELLIA)” and adding in its place the heading “*Asplenium diellectum* (NCN)”;

■ ii. Under Family Grammitidaceae, removing the heading “*Adenophorus periens* (PENDANT KIHIFERN)” and adding in its place the heading “*Adenophorus periens* (PALAI LAU)”;

■ f. In paragraph (e)(1), by:

■ i. In paragraph (e)(1)(xii)(A), removing the words “*Huperzia mannii*” and adding in their place the words “*Phlegmariurus mannii*”;

■ ii. In paragraph (e)(1)(xiv)(A):

■ 1. Removing the words “*Huperzia mannii*” and adding in their place the words “*Phlegmariurus mannii*”;

■ 2. Removing the words “*Mucuna sloanei* var. *persericea*” and adding in their place the words “*Mucuna persericea*”;

■ iii. In paragraph (e)(1)(xv)(A), removing the words “*Huperzia mannii*” and adding in their place the words “*Phlegmariurus mannii*”;

■ iv. In paragraph (e)(1)(xvi)(A), removing the words “*Huperzia mannii*” and adding in their place the words “*Phlegmariurus mannii*”;

■ v. Immediately following paragraph (e)(1)(xvi), after Map 16, adding paragraph (e)(1)(xvii) introductory text;

■ vi. In paragraph (e)(1)(xvii)(A), removing the words “*Huperzia mannii*” and adding in their place the words “*Phlegmariurus mannii*”;

■ vii. In paragraph (e)(1)(xviii)(A), removing the words “*Huperzia mannii*” and adding in their place the words “*Phlegmariurus mannii*”;

■ viii. In paragraph (e)(1)(xix)(A), removing the words “*Huperzia mannii*” and adding in their place the words “*Phlegmariurus mannii*”;

■ ix. In paragraph (e)(1)(xx)(A), removing the words “*Huperzia mannii*” and adding in their place the words “*Phlegmariurus mannii*”; and

■ x. In paragraph (e)(1)(xxix), the table titled “Occupancy of Species by



Designated Critical Habitat Units for Maui,” revising the entries for Maui—Lowland Mesic—Unit 1, Maui—Lowland Wet—Unit 1, Maui—Lowland Wet—Unit 2, Maui—Lowland Wet—Unit 3, Maui—Lowland Wet—Unit 4, Maui—Lowland Wet—Unit 5, Maui—Lowland Wet—Unit 6, Maui—Lowland Wet—Unit 7, Maui—Lowland Wet—Unit 8, Maui—Montane Wet—Unit 1, Maui—Montane Wet—Unit 2, Maui—Montane Wet—Unit 3, Maui—Montane Wet—Unit 4, Maui—Montane Wet—Unit 5, Maui—Montane Wet—Unit 6, Maui—Montane Wet—Unit 7, Maui—Montane Mesic—Unit 1, Maui—Montane Mesic—Unit 2, Maui—Montane Mesic—Unit 3, Maui—Montane Mesic—Unit 4, and Maui—Montane Mesic—Unit 5;

■ g. In paragraph (f)(1), under Family Fabaceae, by:

■ i. Removing the heading “*Mucuna sloanei* var. *persericea* (SEA BEAN)” and adding in its place the heading “*Mucuna persericea* (SEA BEAN)”;

■ ii. Under the new heading “*Mucuna persericea* (SEA BEAN)”, in the introductory text, removing the words “*Mucuna sloanei* var. *persericea*” and adding in their place the words “*Mucuna persericea*”;

■ h. In paragraph (f)(2), by:

■ i. Under Family Aspleniaceae, removing the heading “*Asplenium dielirectum* (ASPLENIUM—LEAVED DIELLIA)” and adding in its place the heading “*Asplenium dielirectum* (NCN)”;

■ ii. Under Family Grammitidaceae, removing the heading “*Adenophorus periens* (PENDANT KIH FERN)” and adding in its place the heading “*Adenophorus periens* (PALAI LAAU)”;

■ iii. Under Family Lycopodiaceae:

■ 1. Removing the heading “*Huperzia mannii* (WAWAEIOLE)” and adding in its place the heading “*Phlegmariurus mannii* (WAWAEIOLE)”;

■ 2. Under the new heading “*Phlegmariurus mannii* (WAWAEIOLE)”, in the introductory text, removing the words “*Huperzia mannii*” and adding in their place the words “*Phlegmariurus mannii*”;

■ i. In paragraph (i), by:

■ i. In paragraph (i)(9)(i), removing the words “*Pleomele forbesii*” and adding in their place the words “*Dracaena forbesii*”;

■ ii. In paragraph (i)(12)(i), removing the words “*Chamaesyce skottsbergii* var. *skottsbergii*” and adding in their place the words “*Euphorbia skottsbergii* var. *skottsbergii*”;

■ iii. In paragraph (i)(13)(i):

■ 1. Removing the words “*Diellia falcata*” and adding in their place the words “*Asplenium dielfalcatum*”;

■ 2. Removing the words “*Platydesma cornuta* var. *decurrens*” and adding in their place the words “*Melicope cornuta* var. *decurrens*”;

■ 3. Removing the words “*Pleomele forbesii*” and adding in their place the words “*Dracaena forbesii*”;

■ iv. In paragraph (i)(14)(i):

■ 1. Removing the words “*Diellia falcata*” and adding in their place the words “*Asplenium dielfalcatum*”;

■ 2. Removing the words “*Platydesma cornuta* var. *decurrens*” and adding in their place the words “*Melicope cornuta* var. *decurrens*”;

■ 3. Removing the words “*Pleomele forbesii*” and adding in their place the words “*Dracaena forbesii*”;

■ v. In paragraph (i)(15)(i):

■ 1. Removing the words “*Diellia falcata*” and adding in their place the words “*Asplenium dielfalcatum*”;

■ 2. Removing the words “*Platydesma cornuta* var. *decurrens*” and adding in their place the words “*Melicope cornuta* var. *decurrens*”;

■ 3. Removing the words “*Pleomele forbesii*” and adding in their place the words “*Dracaena forbesii*”;

■ vi. In paragraph (i)(16)(i):

■ 1. Removing the words “*Diellia falcata*” and adding in their place the words “*Asplenium dielfalcatum*”;

■ 2. Removing the words “*Pleomele forbesii*” and adding in their place the words “*Dracaena forbesii*”;

■ vii. In paragraph (i)(17)(i):

■ 1. Removing the words “*Diellia falcata*” and adding in their place the words “*Asplenium dielfalcatum*”;

■ 2. Removing the words “*Pleomele forbesii*” and adding in their place the words “*Dracaena forbesii*”;

■ viii. In paragraph (i)(18)(i):

■ 1. Removing the words “*Diellia falcata*” and adding in their place the words “*Asplenium dielfalcatum*”;

■ 2. Removing the words “*Pleomele forbesii*” and adding in their place the words “*Dracaena forbesii*”;

■ ix. In paragraph (i)(22)(i):

■ 1. Removing the words “*Huperzia nutans*” and adding in their place the words “*Phlegmariurus nutans*”;

■ 2. Removing the words “*Platydesma cornuta* var. *cornuta*” and adding in their place the words “*Melicope cornuta* var. *cornuta*”;

■ 3. Removing the words “*Psychotria hexandra* ssp. *oahuensis*” and adding in their place the words “*Psychotria hexandra* var. *oahuensis*”;

■ x. In paragraph (i)(23)(i):

■ 1. Removing the words “*Huperzia nutans*” and adding in their place the words “*Phlegmariurus nutans*”;

■ 2. Removing the words “*Platydesma cornuta* var. *cornuta*” and adding in their place the words “*Melicope cornuta* var. *cornuta*”;

■ 3. Removing the words “*Psychotria hexandra* ssp. *oahuensis*” and adding in their place the words “*Psychotria hexandra* var. *oahuensis*”;

■ xi. In paragraph (i)(24)(i):

■ 1. Removing the words “*Huperzia nutans*” and adding in their place the words “*Phlegmariurus nutans*”;

■ 2. Removing the words “*Platydesma cornuta* var. *cornuta*” and adding in their place the words “*Melicope cornuta* var. *cornuta*”;

■ 3. Removing the words “*Psychotria hexandra* ssp. *oahuensis*” and adding in their place the words “*Psychotria hexandra* var. *oahuensis*”;

■ xii. In paragraph (i)(25)(i):

■ 1. Removing the words “*Huperzia nutans*” and adding in their place the words “*Phlegmariurus nutans*”;

■ 2. Removing the words “*Platydesma cornuta* var. *cornuta*” and adding in their place the words “*Melicope cornuta* var. *cornuta*”;

■ 3. Removing the words “*Psychotria hexandra* ssp. *oahuensis*” and adding in their place the words “*Psychotria hexandra* var. *oahuensis*”;

■ xiii. In paragraph (i)(27)(i):

■ 1. Removing the words “*Diellia falcata*” and adding in their place the words “*Asplenium dielfalcatum*”;

■ 2. Removing the words “*Platydesma cornuta* var. *decurrens*” and adding in their place the words “*Melicope cornuta* var. *decurrens*”;

■ 3. Removing the words “*Pleomele forbesii*” and adding in their place the words “*Dracaena forbesii*”;

■ xiv. In paragraph (i)(28)(i):

■ 1. Removing the words “*Diellia falcata*” and adding in their place the words “*Asplenium dielfalcatum*”;

■ 2. Removing the words “*Platydesma cornuta* var. *decurrens*” and adding in their place the words “*Melicope cornuta* var. *decurrens*”;

■ 3. Removing the words “*Pleomele forbesii*” and adding in their place the words “*Dracaena forbesii*”;

■ xv. In paragraph (i)(29)(i):

■ 1. Removing the words “*Diellia falcata*” and adding in their place the words “*Asplenium dielfalcatum*”;

■ 2. Removing the words “*Platydesma cornuta* var. *decurrens*” and adding in their place the words “*Melicope cornuta* var. *decurrens*”;

■ 3. Removing the words “*Pleomele forbesii*” and adding in their place the words “*Dracaena forbesii*”;

■ xvi. In paragraph (i)(33)(i):

■ 1. Removing the words “*Huperzia nutans*” and adding in their place the words “*Phlegmariurus nutans*”;

- 2. Removing the words “*Psychotria hexandra* ssp. *oahuensis*” and adding in their place the words “*Psychotria hexandra* var. *oahuensis*”;
- xvii. In paragraph (i)(34)(i):
  - 1. Removing the words “*Huperzia nutans*” and adding in their place the words “*Phlegmariurus nutans*”; and
  - 2. Removing the words “*Psychotria hexandra* ssp. *oahuensis*” and adding in their place the words “*Psychotria hexandra* var. *oahuensis*”; and
- xviii. In paragraph (i)(35), the “Table of Protected Species Within Each Critical Habitat Unit for Oahu,” revising the entries for Oahu—Lowland Dry—Unit 1, Oahu—Lowland Dry—Unit 2, Oahu—Lowland Dry—Unit 8, Oahu—Lowland Dry—Unit 9, Oahu—Lowland Dry—Unit 10, Oahu—Lowland Dry—Unit 11, Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Lowland Mesic—Unit 4, Oahu—Lowland Mesic—Unit 5, Oahu—Lowland Mesic—Unit 6, Oahu—Lowland Mesic—Unit 7, Oahu—Lowland Wet—Unit 6, Oahu—Lowland Wet—Unit 7, Oahu—Lowland Wet—Unit 8, Oahu—Lowland Wet—Unit 9, Oahu—Lowland Wet—Unit 10, Oahu—Lowland Wet—Unit 11, Oahu—Lowland Wet—Unit 12, Oahu—Lowland Wet—Unit 13, Oahu—Lowland Wet—Unit 14, Oahu—Lowland Wet—Unit 15, Oahu—Lowland Wet—Unit 16, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 5, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, Oahu—Dry Cliff—Unit 8, Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8;
  - j. In paragraph (j)(1), by:
    - i. Under Family Asparagaceae:
      - 1. Removing the heading “*Pleomele forbesii* (HALA PEPE)” and adding in its place the heading “*Dracaena forbesii* (HALA PEPE)”;
      - 2. Under the new heading “*Dracaena forbesii* (HALA PEPE)”, in the introductory text, removing the words “*Pleomele forbesii*” and adding in their place the words “*Dracaena forbesii*”;
    - ii. Under Family Euphorbiaceae:
      - 1. Removing the heading “*Chamaesyce skottsbergii* var. *skottsbergii* (EWA PLAINS AKOKO)” and adding in its place the heading “*Euphorbia skottsbergii* var. *skottsbergii* (AKOKO)”;
      - 2. Under the new heading “*Euphorbia skottsbergii* var. *skottsbergii* (AKOKO)”, in the introductory text, removing the words “*Chamaesyce skottsbergii* var. *skottsbergii*” and adding in their place the words “*Euphorbia skottsbergii* var. *skottsbergii*”;
    - iii. Under Family Rubiaceae:
      - 1. Removing the heading “*Psychotria hexandra* ssp. *oahuensis* (KOPIKO)” and adding in its place the heading “*Psychotria hexandra* var. *oahuensis* (KOPIKO)”;
      - 2. Under the new heading “*Psychotria hexandra* var. *oahuensis* (KOPIKO)”, in the introductory text, removing the words “*Psychotria hexandra* ssp. *oahuensis*” and adding in their place the words “*Psychotria hexandra* var. *oahuensis*”;
    - iv. Under Family Rutaceae:
      - 1. Removing the heading “*Platydesma cornuta* var. *cornuta* (NCN)” and adding in its place the heading “*Melicope cornuta* var. *cornuta* (NCN)”;
      - 2. Under the new heading “*Melicope cornuta* var. *cornuta* (NCN)”, in the introductory text, removing the words “*Platydesma cornuta* var. *cornuta*” and adding in their place the words “*Melicope cornuta* var. *cornuta*”;
      - 3. Removing the heading “*Platydesma cornuta* var. *decurrens* (NCN)” and adding in its place the heading “*Melicope cornuta* var. *decurrens* (NCN)”;
      - 4. Under the new heading “*Melicope cornuta* var. *decurrens* (NCN)”, in the introductory text, removing the words “*Platydesma cornuta* var. *decurrens*” and adding in their place the words “*Melicope cornuta* var. *decurrens*”;
  - k. In paragraph (j)(2), by:
    - i. Under Family Aspleniaceae,
      - 1. Removing the heading “*Asplenium dielirectum* (ASPLENIUM-LEAVED DIELLIA)” and adding in its place the heading “*Asplenium dielirectum* (NCN)”;
      - 2. Removing the heading “*Diellia falcata* (NCN)” and adding in its place the heading “*Asplenium dielfalcatum* (NCN)”;
      - 3. Under the new heading “*Asplenium dielfalcatum* (NCN)”, in the introductory text, removing the words “*Diellia falcata*” and adding in their place the words “*Asplenium dielfalcatum*”;
    - ii. Under Family Grammitidaceae, removing the heading “*Adenophorus periens* (PENDANT KIHIFERN)” and adding in its place the heading “*Adenophorus periens* (PALAI LAU)”;
    - iii. Under Family Lycopodiaceae:
      - 1. Removing the heading “*Huperzia nutans* (WAWAEIOLE)” and adding in its place the heading “*Phlegmariurus nutans* (WAWAEIOLE)”;
      - 2. Under the new heading “*Phlegmariurus nutans* (WAWAEIOLE)”, in the introductory text, removing the words “*Huperzia nutans*” and adding in their place the words “*Phlegmariurus nutans*”;
- (l) In paragraph (k), by:
  - i. In paragraph (k)(26):
    - 1. In the introductory text, removing the words “Hawaii 7—*Pleomele hawaiiensis*—a” and adding in their place the words “Hawaii 7—*Dracaena konaensis*—a”;
    - 2. In paragraph (k)(26)(ii), revising the introductory text;
  - ii. In paragraph (k)(51):
    - 1. In the introductory text, removing the words “Hawaii 10—*Pleomele hawaiiensis*—b” and adding in their place the words “Hawaii 10—*Dracaena konaensis*—b”;
    - 2. In paragraph (k)(51)(ii), revising the introductory text;
  - iii. In paragraph (k)(69):
    - 1. In the introductory text, removing the words “Hawaii 18—*Pleomele hawaiiensis*—c” and adding in their place the words “Hawaii 18—*Dracaena konaensis*—c”;
    - 2. In paragraph (k)(69)(ii), revising the introductory text;
  - iv. In paragraph (k)(74):
    - 1. In the introductory text, removing the words “Hawaii 23—*Pleomele hawaiiensis*—d” and adding in their place the words “Hawaii 23—*Dracaena konaensis*—d”;
    - 2. In paragraph (k)(74)(ii), revising the introductory text; and
  - v. In paragraph (k)(115), the Table of Protected Species Within Each Critical Habitat Unit for the Island of Hawaii:
    - 1. Removing the entries for Hawaii 7—*Pleomele hawaiiensis*—a, Hawaii 10—*Pleomele hawaiiensis*—b, Hawaii 17—*Diellia erecta*—a, Hawaii 18—*Diellia erecta*—b, Hawaii 18—*Pleomele hawaiiensis*—c, and Hawaii 23—*Pleomele hawaiiensis*—d; and
    - 2. Adding, in order by unit number and then alphabetical order by scientific name within the unit, entries for Hawaii 7—*Dracaena konaensis*—a, Hawaii 10—*Dracaena konaensis*—b, Hawaii 17—*Asplenium dielirectum*—a, Hawaii 18—*Asplenium dielirectum*—b, Hawaii 18—*Dracaena konaensis*—c, and Hawaii 23—*Dracaena konaensis*—d;
- (m) In paragraph (l)(1), by:
  - a. Removing the heading “Family Campanulaceae: *Cyanea platyphylla* (haha)” and adding in its place the heading “Family Campanulaceae: *Cyanea platyphylla* (akuaku)”;
  - b. Removing the heading “Family Liliaceae: *Pleomele hawaiiensis* (hala pepe)” and adding in its place the heading “Family Liliaceae: *Dracaena konaensis* (hala pepe)”;
  - c. Under the new heading “Family Liliaceae: *Dracaena konaensis* (hala pepe)”, revising the introductory text; and
  - d. Immediately before the entry for “Family Aspleniaceae: *Asplenium*

peruvianum var. insulare (NCN)", add the paragraph designation and heading "(2) Fern and allies.";

■ (n) In newly designated paragraph (l)(2), by:

■ a. Removing the heading "Family Aspleniaceae: Diellia erecta (asplenium-leaved diellia)" and adding in its place the heading "Family Aspleniaceae: Asplenium dielirectum (NCN)"; and

■ b. Removing the heading "Family Grammitidaceae: Adenophorus periens (pendent kihi fern)" and adding in its place the heading "Family Grammitidaceae: Adenophorus periens (palai laau)".

The revisions and additions read as follows:

§ 17.99 Critical habitat; plants on the Hawaiian Islands.

(a) \* \* \*

(1) \* \* \*

(vi) \* \* \*

(B) Note: The reference to "Kauai 4—Platydesma rostrata—a" on the map is equivalent to "Kauai 4—Melicope rostrata—a". Map 5a follows:

\* \* \* \* \*

(xiv) \* \* \*

(B) Note: The reference to "Unit 4—Cyrtrandra limahuliensis—a" on the map is equivalent to "Kauai 4—Cyrtrandra kealiae ssp. kealiae—a". Map 11 follows:

\* \* \* \* \*

(xv) \* \* \*

(B) Note: The reference to "Unit 4—Cyrtrandra limahuliensis—b" on the map is equivalent to "Kauai 4—Cyrtrandra kealiae ssp. kealiae—b". Map 12 follows:

\* \* \* \* \*

(xxxiv) \* \* \*

(B) Note: The reference to "Kauai 7—Platydesma rostrata—b" on the map is equivalent to "Kauai 7—Melicope rostrata—b". Map 23a follows:

\* \* \* \* \*

(lvii) \* \* \*

(B) Note: The reference to "Kauai 10—Platydesma rostrata—c" on the map is equivalent to "Kauai 10—Melicope rostrata—c". Map 35a follows:

\* \* \* \* \*

(lix) \* \* \*

(B) Note: The reference to "Kauai 10—Platydesma rostrata—d" on the map is equivalent to "Kauai 10—Melicope rostrata—d". Map 36a follows:

\* \* \* \* \*

(lx) \* \* \*

(B) Note: The reference to "Kauai 10—Platydesma rostrata—e" on the map is equivalent to "Kauai 10—Melicope rostrata—e". Map 36b follows:

\* \* \* \* \*

(lxxii) \* \* \*

(B) Note: The reference to "Unit 10—Cyrtrandra limahuliensis—c" on the map is equivalent to "Kauai 10—Cyrtrandra kealiae ssp. kealiae—c". Map 40 follows:

\* \* \* \* \*

(civ) \* \* \*

(B) Note: The reference to "Unit 10—Huperzia nutans—a" on the map is equivalent to "Kauai 10—Phlegmariurus nutans—a". Map 49 follows:

\* \* \* \* \*

(cxxx) \* \* \*

(B) Note: The reference to "Kauai 11—Platydesma rostrata—f" on the map is equivalent to "Kauai 11—Melicope rostrata—f". Map 64a follows:

\* \* \* \* \*

(cxxxiii) \* \* \*

(B) Note: The reference to "Kauai 11—Platydesma rostrata—g" on the map is equivalent to "Kauai 11—Melicope rostrata—g". Map 66a follows:

\* \* \* \* \*

(cxl) \* \* \*

(B) Note: The reference to "Kauai 11—Platydesma rostrata—h" on the map is equivalent to "Kauai 11—Melicope rostrata—h". Map 70a follows:

\* \* \* \* \*

(cxli) \* \* \*

(B) Note: The reference to "Kauai 11—Platydesma rostrata—i" on the map is equivalent to "Kauai 11—Melicope rostrata—i". Map 70b follows:

\* \* \* \* \*

(cxlvi) \* \* \*

(B) Note: The reference to "Kauai 11—Platydesma rostrata—j" on the map is equivalent to "Kauai 11—Melicope rostrata—j". Map 70c follows:

\* \* \* \* \*

(clxi) \* \* \*

(B) Note: The reference to "Unit 11—Cyrtrandra limahuliensis—d" on the map is equivalent to "Kauai 11—Cyrtrandra kealiae ssp. kealiae—d". Map 79 follows:

\* \* \* \* \*

(clxii) \* \* \*

(B) Note: The reference to "Unit 11—Cyrtrandra limahuliensis—e" on the map is equivalent to "Kauai 11—Cyrtrandra kealiae ssp. kealiae—e". Map 80 follows:

\* \* \* \* \*

(clxviii) \* \* \*

(B) Note: The reference to "Unit 11—Delissea rivularis—a" on the map is equivalent to "Kauai 11—Cyanea rivularis—a". Map 83 follows:

\* \* \* \* \*

(clxxiii) \* \* \*

(B) Note: The reference to "Unit 11—Diellia pallida—a" on the map is

equivalent to "Kauai 11—Asplenium dielpallidum—a". Map 87 follows:

\* \* \* \* \*

(clxxiv) \* \* \*

(B) Note: The reference to "Unit 11—Diellia pallida—b" on the map is equivalent to "Kauai 11—Asplenium dielpallidum—b". Map 88 follows:

\* \* \* \* \*

(cciii) \* \* \*

(B) Note: The reference to "Unit 11—Hedyotis cookiana—a" on the map is equivalent to "Kauai 11—Kadua cookiana—a". Map 109 follows:

\* \* \* \* \*

(cccli) \* \* \*

(B) Note: The reference to "Kauai 18—Platydesma rostrata—k" on the map is equivalent to "Kauai 18—Melicope rostrata—k". Map 217a follows:

\* \* \* \* \*

(ccclxi) \* \* \*

(B) Note: The reference to "Kauai 19—Platydesma rostrata—l" on the map is equivalent to "Kauai 19—Melicope rostrata—l". Map 217b follows:

\* \* \* \* \*

(ccclxxi) \* \* \*

(B) Note: The reference to "Kauai 20—Platydesma rostrata—m" on the map is equivalent to "Kauai 20—Melicope rostrata—m". Map 217c follows:

\* \* \* \* \*

(ccclxxxvii) \* \* \*

(B) Note: The reference to "Kauai 21—Platydesma rostrata—n" on the map is equivalent to "Kauai 21—Melicope rostrata—n". Map 217d follows:

\* \* \* \* \*

(cccxcvi) \* \* \*

(B) Note: The reference to "Kauai 22—Platydesma rostrata—o" on the map is equivalent to "Kauai 22—Melicope rostrata—o". Map 217e follows:

\* \* \* \* \*

(cdv) \* \* \*

(B) Note: The reference to "Kauai 23—Platydesma rostrata—p" on the map is equivalent to "Kauai 23—Melicope rostrata—p". Map 217f follows:

\* \* \* \* \*

(cdxxiii) \* \* \*

(B) Note: The reference to "Kauai 24—Platydesma rostrata—q" on the map is equivalent to "Kauai 24—Melicope rostrata—q". Map 217g follows:

\* \* \* \* \*

(cdxli) \* \* \*

(B) Note: The reference to "Kauai 25—Platydesma rostrata—r" on the map is equivalent to "Kauai 25—Melicope rostrata—r". Map 217h follows:

\* \* \* \* \*

(cdlix) \* \* \*

Unit name	Species occupied	Species unoccupied
Kauai 4— <i>Cyrtandra kealiae</i> ssp. <i>kealiae</i> —a	<i>Cyrtandra kealiae</i> ssp. <i>kealiae</i> .	
Kauai 4— <i>Cyrtandra kealiae</i> ssp. <i>kealiae</i> —b	<i>Cyrtandra kealiae</i> ssp. <i>kealiae</i> .	
Kauai 4— <i>Melicope rostrata</i> —a		<i>Melicope rostrata</i> .
Kauai 7— <i>Melicope rostrata</i> —b		<i>Melicope rostrata</i> .
Kauai 10— <i>Cyrtandra kealiae</i> ssp. <i>kealiae</i> —c	<i>Cyrtandra kealiae</i> ssp. <i>kealiae</i> .	
Kauai 10— <i>Melicope rostrata</i> —c	<i>Melicope rostrata</i>	<i>Melicope rostrata</i> .
Kauai 10— <i>Melicope rostrata</i> —d	<i>Melicope rostrata</i>	<i>Melicope rostrata</i> .
Kauai 10— <i>Melicope rostrata</i> —e	<i>Melicope rostrata</i>	<i>Melicope rostrata</i> .
Kauai 10— <i>Phlegmariurus nutans</i> —a		<i>Phlegmariurus nutans</i> .
Kauai 11— <i>Asplenium dielpallidum</i> —a	<i>Asplenium dielpallidum</i> .	
Kauai 11— <i>Asplenium dielpallidum</i> —b	<i>Asplenium dielpallidum</i> .	
Kauai 11— <i>Cyanea rivularis</i> —a	<i>Cyanea rivularis</i> .	
Kauai 11— <i>Cyrtandra kealiae</i> ssp. <i>kealiae</i> —d	<i>Cyrtandra kealiae</i> ssp. <i>kealiae</i> .	
Kauai 11— <i>Cyrtandra kealiae</i> ssp. <i>kealiae</i> —e	<i>Cyrtandra kealiae</i> ssp. <i>kealiae</i> .	
Kauai 11— <i>Kadua cookiana</i> —a	<i>Kadua cookiana</i> .	
Kauai 11— <i>Melicope rostrata</i> —f	<i>Melicope rostrata</i>	<i>Melicope rostrata</i> .
Kauai 11— <i>Melicope rostrata</i> —g	<i>Melicope rostrata</i>	<i>Melicope rostrata</i> .
Kauai 11— <i>Melicope rostrata</i> —h	<i>Melicope rostrata</i>	<i>Melicope rostrata</i> .
Kauai 11— <i>Melicope rostrata</i> —i	<i>Melicope rostrata</i>	<i>Melicope rostrata</i> .
Kauai 11— <i>Melicope rostrata</i> —j	<i>Melicope rostrata</i>	<i>Melicope rostrata</i> .
Kauai 18— <i>Melicope rostrata</i> —k	<i>Melicope rostrata</i>	<i>Melicope rostrata</i> .
Kauai 19— <i>Melicope rostrata</i> —l		<i>Melicope rostrata</i> .
Kauai 20— <i>Melicope rostrata</i> —m		<i>Melicope rostrata</i> .
Kauai 21— <i>Melicope rostrata</i> —n		<i>Melicope rostrata</i> .
Kauai 22— <i>Melicope rostrata</i> —o		<i>Melicope rostrata</i> .
Kauai 23— <i>Melicope rostrata</i> —p	<i>Melicope rostrata</i>	<i>Melicope rostrata</i> .
Kauai 24— <i>Melicope rostrata</i> —q	<i>Melicope rostrata</i>	<i>Melicope rostrata</i> .
Kauai 25— <i>Melicope rostrata</i> —r	<i>Melicope rostrata</i>	<i>Melicope rostrata</i> .

(b) \* \* \*

(1) \* \* \*

\* \* \* \* \*

**Family Gesneriaceae: *Cyrtandra kealiae* ssp. *Kealiae* (Hawaii)**

Kauai 4—*Cyrtandra kealiae* ssp. *kealiae*—a, Kauai 4—*Cyrtandra kealiae* ssp. *kealiae*—b, Kauai 10—*Cyrtandra*

*kealiae* ssp. *kealiae*—c, Kauai 11—*Cyrtandra kealiae* ssp. *kealiae*—d, and Kauai 11—*Cyrtandra kealiae* ssp. *kealiae*—e, identified in the legal descriptions in paragraph (a)(1) of this section, constitute critical habitat for *Cyrtandra kealiae* ssp. *kealiae* on Kauai. Within these units, the currently known primary constituent elements of critical

habitat include, but are not limited to, the habitat components provided by:  
\* \* \* \* \*

**Family Rutaceae: *Melicope Rostrata* (Pilo Kea Lau Lii)**

Kauai 4—*Melicope rostrata*—a, Kauai 7—*Melicope rostrata*—b, Kauai 10—*Melicope rostrata*—c, Kauai 10—

*Melicope rostrata*—d, Kauai 10—*Melicope rostrata*—e, Kauai 11—*Melicope rostrata*—f, Kauai 11—*Melicope rostrata*—g, Kauai 11—*Melicope rostrata*—h, Kauai 11—*Melicope rostrata*—i, Kauai 11—*Melicope rostrata*—j, Kauai 18—*Melicope rostrata*—k, Kauai 19—*Melicope rostrata*—l, Kauai 20—*Melicope rostrata*—m, Kauai 21—*Melicope rostrata*—n, Kauai 22—*Melicope rostrata*—o, Kauai 23—*Melicope rostrata*—p, Kauai 24—*Melicope rostrata*—q, and Kauai 25—*Melicope rostrata*—r, identified in the legal descriptions in paragraph (a)(1) of this section, constitute critical habitat for *Platydesma rostrata* on Kauai.

(i) In units Kauai 7—*Melicope rostrata*—b and Kauai 11—*Melicope rostrata*—g, the primary constituent elements of critical habitat are:

\* \* \* \* \*

(ii) In units Kauai 10—*Melicope rostrata*—d, Kauai 11—*Melicope rostrata*—h, and Kauai 20—*Melicope*

*rostrata*—m, the primary constituent elements of critical habitat are:

\* \* \* \* \*

(iii) In units Kauai 11—*Melicope rostrata*—j, Kauai 21—*Melicope rostrata*—n, and Kauai 22—*Melicope rostrata*—o, the primary constituent elements of critical habitat are:

\* \* \* \* \*

(iv) In units Kauai 10—*Melicope rostrata*—c, Kauai 11—*Melicope rostrata*—f, Kauai 23—*Melicope rostrata*—p, Kauai 24—*Melicope rostrata*—q, and Kauai 25—*Melicope rostrata*—r, the primary constituent elements of critical habitat are:

\* \* \* \* \*

(v) In units Kauai 4—*Melicope rostrata*—a, Kauai 10—*Melicope rostrata*—e, Kauai 11—*Melicope rostrata*—i, Kauai 18—*Melicope rostrata*—k, and Kauai 19—*Melicope rostrata*—l, the primary constituent elements of critical habitat are:

\* \* \* \* \*

(2) \* \* \*

\* \* \* \* \*

**Family Aspleniaceae: *Asplenium dielpallidum* (No Common Name)**

Kauai 11—*Asplenium dielpallidum*—a and Kauai 11—*Asplenium dielpallidum*—b, identified in the legal descriptions in paragraph (a)(1) of this section, constitute critical habitat for *Asplenium dielpallidum* on Kauai.

Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

\* \* \* \* \*

(e) \* \* \*

(1) \* \* \*

(xvii) Maui—Montane Wet—Unit 1 (2,110 ac, 854 ha), Maui—Montane Wet—Unit 2 (14,583 ac, 5,901 ha), Maui—Montane Wet—Unit 3 (2,228 ac, 902 ha), Maui—Montane Wet—Unit 4 (1,833 ac, 742 ha), and Maui—Montane Wet—Unit 5 (387 ac, 156 ha).

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(xxix) \* \* \*

Unit name	Species occupied	Species unoccupied
Maui—Lowland Mesic—Unit 1	<i>Cyanea asplenifolia.</i> <i>Cyanea copelandii</i> ssp. <i>haleakalaensis.</i> <i>Phlegmariurus mannii.</i>	<i>Ctenitis squamigera.</i>  <i>Solanum incompletum.</i>
Maui—Lowland Wet—Unit 1	<i>Bidens campylotheca</i> ssp. <i>waihoi</i> ensis.  <i>Clermontia samuelii.</i> <i>Cyanea asplenifolia.</i> <i>Cyanea copelandii</i> ssp. <i>haleakalaensis.</i> <i>Cyanea duvalliorum.</i> <i>Cyanea hamatiflora</i> ssp. <i>hamatiflora.</i> <i>Cyanea kunthiana.</i> <i>Cyanea maritae.</i> <i>Cyanea mcelandneyi.</i> <i>Melicope balloui.</i> <i>Melicope ovalis.</i>  <i>Phlegmariurus mannii.</i>	<i>Clermontia oblongifolia</i> ssp. <i>mauiensis.</i> <i>Clermontia peleana.</i>  <i>Mucuna persericea.</i>  <i>Phyllostegia haliakalae.</i> <i>Wikstroemia villosa.</i> <i>Alectryon macrococcus.</i> <i>Asplenium dielirectum.</i> <i>Bidens conjuncta.</i> <i>Bidens micrantha</i> ssp. <i>kalealaha.</i> <i>Clermontia oblongifolia</i> ssp. <i>mauiensis.</i> <i>Ctenitis squamigera.</i> <i>Cyanea asplenifolia.</i> <i>Cyanea glabra.</i> <i>Cyanea kunthiana.</i> <i>Cyanea lobata.</i> <i>Cyanea magnicalyx.</i> <i>Cyrtandra filipes.</i> <i>Cyrtandra munroi.</i> <i>Diplazium molokaiense.</i> <i>Hesperomannia arborescens.</i> <i>Hesperomannia arbuscula.</i> <i>Isodendron pyriformum.</i> <i>Kadua laxiflora.</i> <i>Peucedanum sandwicense.</i> <i>Phlegmariurus mannii.</i> <i>Phyllostegia bracteata.</i> <i>Pteris lidgatei.</i>
Maui—Lowland Wet—Unit 2		

Unit name	Species occupied	Species unoccupied
Maui—Lowland Wet—Unit 3 .....	<p><i>Santalum haleakalae</i> var. <i>lanaiense</i>.</p> <p><i>Bidens conjuncta</i>.</p> <p><i>Cyanea asplenifolia</i>.</p>	<p><i>Remya mauiensis</i>.</p> <p><i>Wikstroemia villosa</i>.</p> <p><i>Alectryon macrococcus</i>.</p> <p><i>Asplenium dielerectum</i>.</p> <p><i>Bidens micrantha</i> ssp. <i>kalealaha</i>.</p> <p><i>Clermontia oblongifolia</i> ssp. <i>mauiensis</i>.</p> <p><i>Ctenitis squamigera</i>.</p> <p><i>Cyanea glabra</i>.</p> <p><i>Cyanea kunthiana</i>.</p> <p><i>Cyanea lobata</i>.</p> <p><i>Cyanea magnicalyx</i>.</p> <p><i>Cyrtandra filipes</i>.</p> <p><i>Cyrtandra munroi</i>.</p> <p><i>Diplazium molokaiense</i>.</p> <p><i>Hesperomannia arborescens</i>.</p> <p><i>Hesperomannia arbuscula</i>.</p> <p><i>Isodendron pyriformum</i>.</p> <p><i>Kadua laxiflora</i>.</p> <p><i>Peucedanum sandwicense</i>.</p> <p><i>Phlegmariurus mannii</i>.</p> <p><i>Phyllostegia bracteata</i>.</p>
Maui—Lowland Wet—Unit 4 .....	<p><i>Pteris lidgatei</i>.</p> <p><i>Cyanea asplenifolia</i>.</p>	<p><i>Remya mauiensis</i>.</p> <p><i>Santalum haleakalae</i> var. <i>lanaiense</i>.</p> <p><i>Wikstroemia villosa</i>.</p> <p><i>Alectryon macrococcus</i>.</p> <p><i>Asplenium dielerectum</i>.</p> <p><i>Bidens conjuncta</i>.</p> <p><i>Bidens micrantha</i> ssp. <i>kalealaha</i>.</p> <p><i>Clermontia oblongifolia</i> ssp. <i>mauiensis</i>.</p> <p><i>Ctenitis squamigera</i>.</p> <p><i>Cyanea glabra</i>.</p> <p><i>Cyanea kunthiana</i>.</p> <p><i>Cyanea lobata</i>.</p> <p><i>Cyanea magnicalyx</i>.</p> <p><i>Cyrtandra filipes</i>.</p> <p><i>Cyrtandra munroi</i>.</p> <p><i>Diplazium molokaiense</i>.</p> <p><i>Hesperomannia arborescens</i>.</p> <p><i>Hesperomannia arbuscula</i>.</p> <p><i>Isodendron pyriformum</i>.</p> <p><i>Kadua laxiflora</i>.</p> <p><i>Peucedanum sandwicense</i>.</p> <p><i>Phlegmariurus mannii</i>.</p> <p><i>Phyllostegia bracteata</i>.</p> <p><i>Pteris lidgatei</i>.</p>
Maui—Lowland Wet—Unit 5 .....		<p><i>Remya mauiensis</i>.</p> <p><i>Santalum haleakalae</i> var. <i>lanaiense</i>.</p> <p><i>Wikstroemia villosa</i>.</p> <p><i>Alectryon macrococcus</i>.</p> <p><i>Asplenium dielerectum</i>.</p> <p><i>Bidens conjuncta</i>.</p> <p><i>Bidens micrantha</i> ssp. <i>kalealaha</i>.</p> <p><i>Clermontia oblongifolia</i> ssp. <i>mauiensis</i>.</p> <p><i>Ctenitis squamigera</i>.</p> <p><i>Cyanea asplenifolia</i>.</p> <p><i>Cyanea glabra</i>.</p> <p><i>Cyanea kunthiana</i>.</p> <p><i>Cyanea lobata</i>.</p> <p><i>Cyanea magnicalyx</i>.</p> <p><i>Cyrtandra filipes</i>.</p> <p><i>Cyrtandra munroi</i>.</p> <p><i>Diplazium molokaiense</i>.</p> <p><i>Hesperomannia arborescens</i>.</p> <p><i>Hesperomannia arbuscula</i>.</p> <p><i>Isodendron pyriformum</i>.</p> <p><i>Kadua laxiflora</i>.</p> <p><i>Peucedanum sandwicense</i>.</p> <p><i>Phlegmariurus mannii</i>.</p> <p><i>Phyllostegia bracteata</i>.</p> <p><i>Pteris lidgatei</i>.</p>
Maui—Lowland Wet—Unit 6 .....		<p><i>Remya mauiensis</i>.</p> <p><i>Santalum haleakalae</i> var. <i>lanaiense</i>.</p> <p><i>Wikstroemia villosa</i>.</p> <p><i>Alectryon macrococcus</i>.</p> <p><i>Asplenium dielerectum</i>.</p> <p><i>Bidens conjuncta</i>.</p> <p><i>Bidens micrantha</i> ssp. <i>kalealaha</i>.</p> <p><i>Clermontia oblongifolia</i> ssp. <i>mauiensis</i>.</p>

Unit name	Species occupied	Species unoccupied
		<i>Ctenitis squamigera.</i> <i>Cyanea asplenifolia.</i> <i>Cyanea glabra.</i> <i>Cyanea kunthiana.</i> <i>Cyanea lobata.</i> <i>Cyanea magnicalyx.</i> <i>Cyrtandra filipes.</i> <i>Cyrtandra munroi.</i> <i>Diplazium molokaiense.</i> <i>Hesperomannia arborescens.</i> <i>Hesperomannia arbuscula.</i> <i>Isodendron pyriform.</i> <i>Kadua laxiflora.</i> <i>Peucedanum sandwicense.</i> <i>Phlegmarius mannii.</i> <i>Phyllostegia bracteata.</i> <i>Pteris lidgatei.</i> <i>Remya maiensis.</i>
	<i>Santalum haleakalae</i> var. <i>lanaiense.</i>	<i>Wikstroemia villosa.</i>
Maui—Lowland Wet—Unit 7 .....	<i>Alectryon macrococcus.</i>	<i>Asplenium dielerectum.</i> <i>Bidens conjuncta.</i> <i>Bidens micrantha</i> ssp. <i>kalealaha.</i> <i>Clermontia oblongifolia</i> ssp. <i>mauiensis.</i> <i>Ctenitis squamigera.</i> <i>Cyanea asplenifolia.</i> <i>Cyanea glabra.</i> <i>Cyanea kunthiana.</i> <i>Cyanea lobata.</i> <i>Cyanea magnicalyx.</i> <i>Cyrtandra filipes.</i> <i>Cyrtandra munroi.</i> <i>Diplazium molokaiense.</i> <i>Hesperomannia arborescens.</i> <i>Hesperomannia arbuscula.</i> <i>Isodendron pyriform.</i> <i>Kadua laxiflora.</i> <i>Peucedanum sandwicense.</i> <i>Phlegmarius mannii.</i> <i>Phyllostegia bracteata.</i> <i>Pteris lidgatei.</i> <i>Remya maiensis.</i> <i>Santalum haleakalae</i> var. <i>lanaiense.</i> <i>Wikstroemia villosa.</i>
Maui—Lowland Wet—Unit 8 .....		<i>Alectryon macrococcus.</i> <i>Asplenium dielerectum.</i> <i>Bidens conjuncta.</i> <i>Bidens micrantha</i> ssp. <i>kalealaha.</i> <i>Clermontia oblongifolia</i> ssp. <i>mauiensis.</i> <i>Ctenitis squamigera.</i> <i>Cyanea asplenifolia.</i> <i>Cyanea glabra.</i> <i>Cyanea kunthiana.</i> <i>Cyanea lobata.</i> <i>Cyanea magnicalyx.</i> <i>Cyrtandra filipes.</i> <i>Cyrtandra munroi.</i> <i>Diplazium molokaiense.</i> <i>Hesperomannia arborescens.</i> <i>Hesperomannia arbuscula.</i> <i>Isodendron pyriform.</i> <i>Kadua laxiflora.</i> <i>Peucedanum sandwicense.</i> <i>Phlegmarius mannii.</i> <i>Phyllostegia bracteata.</i> <i>Pteris lidgatei.</i> <i>Remya maiensis.</i> <i>Santalum haleakalae</i> var. <i>lanaiense.</i> <i>Wikstroemia villosa.</i>
Maui—Montane Wet—Unit 1 .....		<i>Adenophorus periens.</i> <i>Asplenium peruvianum</i> var. <i>insulare.</i> <i>Bidens campylothea</i> ssp. <i>pentamera.</i> <i>Bidens campylothea</i> ssp. <i>waihoiensis.</i> <i>Clermontia oblongifolia</i> ssp. <i>mauiensis.</i> <i>Clermontia samuelii.</i> <i>Cyanea copelandii</i> ssp. <i>haleakalaensis.</i>
	<i>Cyanea duvalliorum.</i>	<i>Cyanea glabra.</i> <i>Cyanea hamatiflora</i> ssp. <i>hamatiflora.</i> <i>Cyanea horrida.</i> <i>Cyanea kunthiana.</i>
	<i>Cyanea maritae.</i>	

Unit name	Species occupied	Species unoccupied
Maui—Montane Wet—Unit 2 .....	<p><i>Cyanea mceldowneyi.</i></p> <p><i>Melicope balloui.</i></p> <p><i>Phlegmarius manni.</i></p> <p><i>Phyllostegia pilosa.</i></p> <p><i>Bidens campylotheca ssp. pentamera.</i></p> <p><i>Clermontia samuelii.</i>  <i>Cyanea copelandii ssp. haleakalaensis.</i>  <i>Cyanea duvalliorum.</i></p> <p><i>Cyanea hamatiflora ssp. hamatiflora.</i>  <i>Cyanea horrida.</i>  <i>Cyanea kunthiana.</i></p> <p><i>Cyanea mceldowneyi.</i></p> <p><i>Geranium hanaense.</i>  <i>Geranium multiflorum.</i></p>	<p><i>Cyrtandra ferripilosa.</i>  <i>Diplazium molokaiense.</i>  <i>Geranium hanaense.</i>  <i>Geranium multiflorum.</i></p> <p><i>Melicope ovalis.</i>  <i>Peperomia subpetiolata.</i></p> <p><i>Phyllostegia bracteata.</i>  <i>Phyllostegia haliakalae.</i>  <i>Phyllostegia manni.</i></p> <p><i>Platanthera holochila.</i>  <i>Schiedea jacobii.</i>  <i>Wikstroemia villosa.</i>  <i>Adenophorus periens.</i>  <i>Asplenium peruvianum var. insulare.</i></p> <p><i>Bidens campylotheca ssp. waihoiensis.</i>  <i>Clermontia oblongifolia ssp. mauiensis.</i></p> <p><i>Cyanea glabra.</i></p> <p><i>Cyanea maritae.</i></p> <p><i>Cyrtandra ferripilosa.</i>  <i>Diplazium molokaiense.</i></p> <p><i>Melicope balloui.</i>  <i>Melicope ovalis.</i>  <i>Peperomia subpetiolata.</i>  <i>Phlegmarius manni.</i>  <i>Phyllostegia bracteata.</i>  <i>Phyllostegia haliakalae.</i>  <i>Phyllostegia manni.</i>  <i>Phyllostegia pilosa.</i>  <i>Platanthera holochila.</i>  <i>Schiedea jacobii.</i></p>
Maui—Montane Wet—Unit 3 .....	<p><i>Wikstroemia villosa.</i></p> <p><i>Bidens campylotheca ssp. pentamera.</i>  <i>Bidens campylotheca ssp. waihoiensis.</i></p> <p><i>Cyanea copelandii ssp. haleakalaensis.</i></p> <p><i>Cyanea hamatiflora ssp. hamatiflora.</i></p> <p><i>Cyanea maritae.</i></p> <p><i>Melicope ovalis.</i></p>	<p><i>Adenophorus periens.</i>  <i>Asplenium peruvianum var. insulare.</i></p> <p><i>Clermontia oblongifolia ssp. mauiensis.</i>  <i>Clermontia samuelii.</i></p> <p><i>Cyanea duvalliorum.</i>  <i>Cyanea glabra.</i></p> <p><i>Cyanea horrida.</i>  <i>Cyanea kunthiana.</i></p> <p><i>Cyanea mceldowneyi.</i>  <i>Cyrtandra ferripilosa.</i>  <i>Diplazium molokaiense.</i>  <i>Geranium hanaense.</i>  <i>Geranium multiflorum.</i>  <i>Melicope balloui.</i></p> <p><i>Peperomia subpetiolata.</i>  <i>Phlegmarius manni.</i>  <i>Phyllostegia bracteata.</i>  <i>Phyllostegia haliakalae.</i>  <i>Phyllostegia manni.</i>  <i>Phyllostegia pilosa.</i>  <i>Platanthera holochila.</i>  <i>Schiedea jacobii.</i>  <i>Wikstroemia villosa.</i>  <i>Adenophorus periens.</i>  <i>Asplenium peruvianum var. insulare.</i>  <i>Bidens campylotheca ssp. pentamera.</i>  <i>Bidens campylotheca ssp. waihoiensis.</i>  <i>Clermontia oblongifolia ssp. mauiensis.</i></p>
Maui—Montane Wet—Unit 4 .....	<p><i>Clermontia samuelii.</i>  <i>Cyanea copelandii ssp. haleakalaensis.</i></p>	<p><i>Cyanea duvalliorum.</i>  <i>Cyanea glabra.</i></p>



Unit name	Species occupied	Species unoccupied
Maui—Montane Wet—Unit 5 .....	<i>Cyanea hamatiflora</i> ssp. <i>hamatiflora</i> . <i>Cyanea horrida</i> . <i>Cyanea kunthiana</i> . <i>Cyanea maritae</i> .	<i>Cyanea mceldowneyi</i> .  <i>Diplazium molokaiense</i> . <i>Geranium hanaense</i> . <i>Geranium multiflorum</i> . <i>Melicope balloui</i> . <i>Melicope ovalis</i> . <i>Peperomia subpetiolata</i> .
	<i>Cyrtandra ferripilosa</i> .	<i>Phyllostegia bracteata</i> . <i>Phyllostegia haliakalae</i> . <i>Phyllostegia mannii</i> . <i>Phyllostegia pilosa</i> . <i>Platanthera holochila</i> . <i>Schiedea jacobii</i> . <i>Wikstroemia villosa</i> . <i>Adenophorus perieni</i> . <i>Asplenium peruvianum</i> var. <i>insulare</i> .
	<i>Phlegmarius mannii</i> .	
	<i>Bidens campylothea</i> ssp. <i>pentamera</i> .	<i>Bidens campylothea</i> ssp. <i>waihoiensis</i> . <i>Clermontia oblongifolia</i> ssp. <i>mauiensis</i> . <i>Clermontia samuelii</i> . <i>Cyanea copelandii</i> ssp. <i>haleakalaensis</i> . <i>Cyanea duvalliorum</i> . <i>Cyanea glabra</i> . <i>Cyanea hamatiflora</i> ssp. <i>hamatiflora</i> . <i>Cyanea horrida</i> . <i>Cyanea kunthiana</i> . <i>Cyanea maritae</i> . <i>Cyanea mceldowneyi</i> . <i>Cyrtandra ferripilosa</i> . <i>Diplazium molokaiense</i> . <i>Geranium hanaense</i> . <i>Geranium multiflorum</i> . <i>Melicope balloui</i> . <i>Melicope ovalis</i> . <i>Peperomia subpetiolata</i> . <i>Phlegmarius mannii</i> . <i>Phyllostegia bracteata</i> . <i>Phyllostegia haliakalae</i> . <i>Phyllostegia mannii</i> . <i>Phyllostegia pilosa</i> . <i>Platanthera holochila</i> . <i>Schiedea jacobii</i> . <i>Wikstroemia villosa</i> . <i>Acaena exigua</i> .
Maui—Montane Wet—Unit 6 .....	<i>Bidens conjuncta</i> . <i>Calamagrostis hillebrandii</i> . <i>Cyanea kunthiana</i> .	<i>Cyrtandra oxybapha</i> .
	<i>Geranium hillebrandii</i> . <i>Myrsine vaccinioides</i> .	<i>Phlegmarius mannii</i> . <i>Phyllostegia bracteata</i> . <i>Platanthera holochila</i> .
	<i>Sanicula purpurea</i> .	<i>Acaena exigua</i> . <i>Bidens conjuncta</i> . <i>Calamagrostis hillebrandii</i> . <i>Cyanea kunthiana</i> .
Maui—Montane Wet—Unit 7 .....	<i>Cyrtandra oxybapha</i> .	<i>Geranium hillebrandii</i> . <i>Myrsine vaccinioides</i> . <i>Phlegmarius mannii</i> . <i>Phyllostegia bracteata</i> .
	<i>Platanthera holochila</i> .	<i>Sanicula purpurea</i> . <i>Alectryon macrococcus</i> .
Maui—Montane Mesic—Unit 1 .....	<i>Argyroxiphium sandwicense</i> ssp. <i>macrocephalum</i> . <i>Asplenium dielerectum</i> . <i>Asplenium peruvianum</i> var. <i>insulare</i> .	<i>Bidens campylothea</i> ssp. <i>pentamera</i> . <i>Bidens micrantha</i> ssp. <i>kalealaha</i> .
	<i>Clermontia lindseyana</i> .	<i>Cyanea glabra</i> . <i>Cyanea hamatiflora</i> ssp. <i>hamatiflora</i> .
	<i>Cyanea horrida</i> .	<i>Cyanea kunthiana</i> . <i>Cyanea mceldowneyi</i> .



Unit name	Species occupied	Species unoccupied
Oahu—Lowland Dry—Unit 2	<i>Bonamia menziesii</i> ..... <i>Dracaena forbesii</i> .....  <i>Melanthera tenuifolia</i> ..... <i>Nototrichium humile</i> .....	<i>Achyranthes splendens</i> var. <i>rotundata</i> . <i>Bidens amplexens</i> . <i>Bonamia menziesii</i> . <i>Chamaesyce celastroides</i> var. <i>kaenana</i> . <i>Dracaena forbesii</i> . <i>Euphorbia haeleeeleana</i> . <i>Gouania meyenii</i> . <i>Gouania vitifolia</i> . <i>Hibiscus brackenridgei</i> . <i>Isodendron pyrifolium</i> . <i>Melanthera tenuifolia</i> . <i>Neraudia angulata</i> . <i>Nototrichium humile</i> . <i>Schiedea hookeri</i> . <i>Schiedea kealiae</i> . <i>Spermolepis hawaiiensis</i> .
Oahu—Lowland Dry—Unit 8	.....	<i>Achyranthes splendens</i> var. <i>rotundata</i> . <i>Bidens amplexens</i> . <i>Bonamia menziesii</i> . <i>Chamaesyce celastroides</i> var. <i>kaenana</i> . <i>Euphorbia haeleeeleana</i> . <i>Euphorbia skottsbergii</i> var. <i>skottsbergii</i> . <i>Gouania meyenii</i> . <i>Gouania vitifolia</i> . <i>Hibiscus brackenridgei</i> . <i>Isodendron pyrifolium</i> . <i>Melanthera tenuifolia</i> . <i>Neraudia angulata</i> . <i>Nototrichium humile</i> . <i>Schiedea hookeri</i> . <i>Schiedea kealiae</i> . <i>Spermolepis hawaiiensis</i> .
Oahu—Lowland Dry—Unit 9	<i>Achyranthes splendens</i> var. <i>rotundata</i> .....	<i>Achyranthes splendens</i> var. <i>rotundata</i> . <i>Bidens amplexens</i> . <i>Bonamia menziesii</i> . <i>Chamaesyce celastroides</i> var. <i>kaenana</i> . <i>Euphorbia haeleeeleana</i> . <i>Euphorbia skottsbergii</i> var. <i>skottsbergii</i> . <i>Gouania meyenii</i> . <i>Gouania vitifolia</i> . <i>Hibiscus brackenridgei</i> . <i>Isodendron pyrifolium</i> . <i>Melanthera tenuifolia</i> . <i>Neraudia angulata</i> . <i>Nototrichium humile</i> . <i>Schiedea hookeri</i> . <i>Schiedea kealiae</i> . <i>Spermolepis hawaiiensis</i> .
Oahu—Lowland Dry—Unit 10	.....	<i>Achyranthes splendens</i> var. <i>rotundata</i> . <i>Bidens amplexens</i> . <i>Bonamia menziesii</i> . <i>Chamaesyce celastroides</i> var. <i>kaenana</i> . <i>Euphorbia haeleeeleana</i> . <i>Euphorbia skottsbergii</i> var. <i>skottsbergii</i> ..... <i>Gouania meyenii</i> . <i>Gouania vitifolia</i> . <i>Hibiscus brackenridgei</i> . <i>Isodendron pyrifolium</i> . <i>Melanthera tenuifolia</i> . <i>Neraudia angulata</i> . <i>Nototrichium humile</i> . <i>Schiedea hookeri</i> . <i>Schiedea kealiae</i> . <i>Spermolepis hawaiiensis</i> .
Oahu—Lowland Dry—Unit 11	.....	<i>Achyranthes splendens</i> var. <i>rotundata</i> . <i>Bidens amplexens</i> . <i>Bonamia menziesii</i> . <i>Chamaesyce celastroides</i> var. <i>kaenana</i> . <i>Euphorbia haeleeeleana</i> . <i>Euphorbia skottsbergii</i> var. <i>skottsbergii</i> ..... <i>Gouania meyenii</i> . <i>Gouania vitifolia</i> . <i>Hibiscus brackenridgei</i> . <i>Isodendron pyrifolium</i> . <i>Melanthera tenuifolia</i> . <i>Neraudia angulata</i> . <i>Nototrichium humile</i> . <i>Schiedea hookeri</i> . <i>Schiedea kealiae</i> . <i>Spermolepis hawaiiensis</i> .
Oahu—Lowland Mesic—Unit 1	<i>Abutilon sandwicense</i> .....	<i>Abutilon sandwicense</i> .

Unit name	Species occupied	Species unoccupied
	<i>Alectryon macrococcus</i> .....	<i>Alectryon macrococcus</i> .
	<i>Asplenium dielfalcatum</i> .....	<i>Asplenium dielfalcatum</i> .
	<i>Bonamia menziesii</i> .....	<i>Bonamia menziesii</i> .
	<i>Cenchrus agrimonioides</i> .....	<i>Cenchrus agrimonioides</i> .
	<i>Chamaesyce herbstii</i> .....	<i>Chamaesyce celastroides</i> var. <i>kaenana</i> .
	<i>Colubrina oppositifolia</i> .....	<i>Chamaesyce herbstii</i> .
	<i>Ctenitis squamigera</i> .....	<i>Colubrina oppositifolia</i> .
	<i>Cyanea acuminata</i> .....	<i>Ctenitis squamigera</i> .
	<i>Cyanea calycina</i> .....	<i>Cyanea acuminata</i> .
	<i>Cyanea grimesiana</i> ssp. <i>grimesiana</i> .....	<i>Cyanea calycina</i> .
	<i>Cyanea grimesiana</i> ssp. <i>obatae</i> .....	<i>Cyanea grimesiana</i> ssp. <i>grimesiana</i> .
	<i>Cyanea longiflora</i> .....	<i>Cyanea grimesiana</i> ssp. <i>obatae</i> .
	<i>Cyanea superba</i> .....	<i>Cyanea longiflora</i> .
	<i>Cyrtandra dentata</i> .....	<i>Cyanea pinnatifida</i> .
	<i>Delissea subcordata</i> .....	<i>Cyanea superba</i> .
	<i>Dracaena forbesii</i> .....	<i>Cyperus pennatiformis</i> .
	<i>Dubautia herbstobatae</i> .....	<i>Cyrtandra dentata</i> .
	<i>Eragrostis fosbergii</i> .....	<i>Delissea subcordata</i> .
	<i>Euphorbia haeleleana</i> .....	<i>Diellia unisora</i> .
	<i>Flueggea neowawraea</i> .....	<i>Diplazium molokaiense</i> .
	<i>Hesperomannia arborescens</i> .....	<i>Dracaena forbesii</i> .
	<i>Hesperomannia arbuscula</i> .....	<i>Dubautia herbstobatae</i> .
	<i>Hibiscus brackenridgei</i> .....	<i>Eragrostis fosbergii</i> .
	<i>Isodendron laurifolium</i> .....	<i>Eugenia koolauensis</i> .
	<i>Isodendron longifolium</i> .....	<i>Euphorbia haeleleana</i> .
	<i>Kadua degeneri</i> .....	<i>Flueggea neowawraea</i> .
	<i>Lobelia niihauensis</i> .....	<i>Gardenia mannii</i> .
	<i>Melanthera tenuifolia</i> .....	<i>Gouania meyenii</i> .
	<i>Melicope cornuta</i> var. <i>decurrens</i> .....	<i>Gouania vitifolia</i> .
	<i>Melicope makahae</i> .....	<i>Hesperomannia arborescens</i> .
	<i>Melicope pallida</i> .....	<i>Hesperomannia arbuscula</i> .
	<i>Neraudia angulata</i> .....	<i>Hibiscus brackenridgei</i> .
	<i>Nototrichium humile</i> .....	<i>Isodendron laurifolium</i> .
	<i>Phyllostegia kaalaensis</i> .....	<i>Isodendron longifolium</i> .
	<i>Pteralyxia macrocarpa</i> .....	<i>Kadua coriacea</i> .
	<i>Schiedea hookeri</i> .....	<i>Kadua degeneri</i> .
	<i>Schiedea kaalae</i> .....	<i>Kadua parvula</i> .
	<i>Schiedea nuttallii</i> .....	<i>Labordia cyrtandrae</i> .
	<i>Schiedea obovata</i> .....	<i>Lobelia niihauensis</i> .
	<i>Viola chamissoniana</i> ssp. <i>chamissoniana</i> .....	<i>Melanthera tenuifolia</i> .
Oahu—Lowland Mesic—Unit 2 .....	<i>Abutilon sandwicense</i> .....	<i>Melicope cornuta</i> var. <i>decurrens</i> .
	<i>Alectryon macrococcus</i> .....	<i>Melicope makahae</i> .
	<i>Asplenium dielfalcatum</i> .....	<i>Melicope pallida</i> .
	<i>Cenchrus agrimonioides</i> .....	<i>Melicope saint-johnii</i> .
	<i>Chamaesyce herbstii</i> .....	<i>Neraudia angulata</i> .
	<i>Cyanea calycina</i> .....	<i>Nototrichium humile</i> .
	<i>Cyanea grimesiana</i> ssp. <i>obatae</i> .....	<i>Phyllostegia hirsuta</i> .
	<i>Delissea subcordata</i> .....	<i>Phyllostegia kaalaensis</i> .
		<i>Phyllostegia mollis</i> .
		<i>Phyllostegia parviflora</i> .
		<i>Plantago princeps</i> .
		<i>Pteralyxia macrocarpa</i> .
		<i>Sanicula mariversa</i> .
		<i>Schiedea hookeri</i> .
		<i>Schiedea kaalae</i> .
		<i>Schiedea nuttallii</i> .
		<i>Schiedea obovata</i> .
		<i>Silene perlmanii</i> .
		<i>Solanum sandwicense</i> .
		<i>Stenogyne kanehoana</i> .
		<i>Tetramolopium lepidotum</i> ssp. <i>lepidotum</i> .
		<i>Urera kaalae</i> .
		<i>Viola chamissoniana</i> ssp. <i>chamissoniana</i> .
		<i>Abutilon sandwicense</i> .
		<i>Alectryon macrococcus</i> .
		<i>Asplenium dielfalcatum</i> .
		<i>Bonamia menziesii</i> .
		<i>Cenchrus agrimonioides</i> .
		<i>Chamaesyce celastroides</i> var. <i>kaenana</i> .
		<i>Chamaesyce herbstii</i> .
		<i>Colubrina oppositifolia</i> .
		<i>Ctenitis squamigera</i> .
		<i>Cyanea acuminata</i> .
		<i>Cyanea calycina</i> .
		<i>Cyanea grimesiana</i> ssp. <i>grimesiana</i> .
		<i>Cyanea grimesiana</i> ssp. <i>obatae</i> .
		<i>Cyanea longiflora</i> .
		<i>Cyanea pinnatifida</i> .
		<i>Cyanea superba</i> .
		<i>Cyperus pennatiformis</i> .
		<i>Cyrtandra dentata</i> .
		<i>Delissea subcordata</i> .
		<i>Diellia unisora</i> .
		<i>Diplazium molokaiense</i> .

Unit name	Species occupied	Species unoccupied
	<i>Dracaena forbesii</i> .....	<i>Dracaena forbesii</i> . <i>Dubautia herbstobatae</i> . <i>Eragrostis fosbergii</i> . <i>Eugenia koolauensis</i> . <i>Euphorbia haeleleana</i> . <i>Flueggea neowawraea</i> .
	<i>Gardenia mannii</i> .....	<i>Gardenia mannii</i> . <i>Gouania meyenii</i> . <i>Gouania vitifolia</i> . <i>Hesperomannia arborescens</i> . <i>Hesperomannia arbuscula</i> . <i>Hibiscus brackenridgei</i> . <i>Isodendrion laurifolium</i> . <i>Isodendrion longifolium</i> . <i>Kadua coriacea</i> . <i>Kadua degeneri</i> . <i>Kadua parvula</i> . <i>Labordia cyrtandrae</i> . <i>Lobelia niihauensis</i> . <i>Melanthera tenuifolia</i> .
	<i>Melicope comuta</i> var. <i>decurrens</i> .....	<i>Melicope comuta</i> var. <i>decurrens</i> . <i>Melicope makahae</i> . <i>Melicope pallida</i> . <i>Melicope saint-johnii</i> . <i>Neraudia angulata</i> . <i>Nototrichium humile</i> .
	<i>Phyllostegia hirsuta</i> .....	<i>Phyllostegia hirsuta</i> .
	<i>Phyllostegia kaalaensis</i> .....	<i>Phyllostegia kaalaensis</i> .
	<i>Phyllostegia mollis</i> .....	<i>Phyllostegia mollis</i> . <i>Phyllostegia parviflora</i> . <i>Plantago princeps</i> .
	<i>Pteralyxia macrocarpa</i> .....	<i>Pteralyxia macrocarpa</i> . <i>Sanicula mariversa</i> .
	<i>Schiedea hookeri</i> .....	<i>Schiedea hookeri</i> .
	<i>Schiedea kaalae</i> .....	<i>Schiedea kaalae</i> . <i>Schiedea nuttallii</i> . <i>Schiedea obovata</i> . <i>Silene perlmanni</i> .
	<i>Solanum sandwicense</i> .....	<i>Solanum sandwicense</i> .
	<i>Stenogyne kanehoana</i> .....	<i>Stenogyne kanehoana</i> . <i>Tetramolopium lepidotum</i> ssp. <i>lepidotum</i> .
	<i>Urera kaalae</i> .....	<i>Urera kaalae</i> . <i>Viola chamissoniana</i> ssp. <i>chamissoniana</i> .
Oahu—Lowland Mesic—Unit 3 .....		<i>Abutilon sandwicense</i> . <i>Alectryon macrococcus</i> . <i>Asplenium dielfalcatum</i> . <i>Bonamia menziesii</i> . <i>Cenchrus agrimonioides</i> . <i>Chamaesyce celastroides</i> var. <i>kaenana</i> . <i>Chamaesyce herbstii</i> . <i>Colubrina oppositifolia</i> . <i>Ctenitis squamigera</i> . <i>Cyanea acuminata</i> . <i>Cyanea calycina</i> . <i>Cyanea grimesiana</i> ssp. <i>grimesiana</i> . <i>Cyanea grimesiana</i> ssp. <i>obatae</i> . <i>Cyanea longiflora</i> . <i>Cyanea pinnatifida</i> . <i>Cyanea superba</i> . <i>Cyperus pennatifolius</i> . <i>Cyrtandra dentata</i> .
	<i>Delissea subcordata</i> .....	<i>Delissea subcordata</i> .
	<i>Diellia unisora</i> .....	<i>Diellia unisora</i> . <i>Diplazium molokaiense</i> .
	<i>Dracaena forbesii</i> .....	<i>Dracaena forbesii</i> . <i>Dubautia herbstobatae</i> . <i>Eragrostis fosbergii</i> . <i>Eugenia koolauensis</i> . <i>Euphorbia haeleleana</i> . <i>Flueggea neowawraea</i> . <i>Gardenia mannii</i> . <i>Gouania meyenii</i> . <i>Gouania vitifolia</i> . <i>Hesperomannia arborescens</i> .
	<i>Hesperomannia arbuscula</i> .....	<i>Hesperomannia arbuscula</i> . <i>Hibiscus brackenridgei</i> . <i>Isodendrion laurifolium</i> . <i>Isodendrion longifolium</i> . <i>Kadua coriacea</i> . <i>Kadua degeneri</i> . <i>Kadua parvula</i> .

Unit name	Species occupied	Species unoccupied
		<i>Labordia cyrtandrae</i> .
		<i>Lobelia niihauensis</i> .
		<i>Melanthera tenuifolia</i> .
		<i>Melicope cornuta</i> var. <i>decurrens</i> .
		<i>Melicope makahae</i> .
		<i>Melicope pallida</i> .
	<i>Melicope saint-johnii</i> .....	<i>Melicope saint-johnii</i> .
		<i>Neraudia angulata</i> .
		<i>Nototrichium humile</i> .
		<i>Phyllostegia hirsuta</i> .
		<i>Phyllostegia kaalaensis</i> .
	<i>Phyllostegia mollis</i> .....	<i>Phyllostegia mollis</i> .
	<i>Phyllostegia parviflora</i> .....	<i>Phyllostegia parviflora</i> .
	<i>Plantago princeps</i> .....	<i>Plantago princeps</i> .
	<i>Pteralyxia macrocarpa</i> .....	<i>Pteralyxia macrocarpa</i> .
		<i>Sanicula marivera</i> .
		<i>Schiedea hookeri</i> .
	<i>Schiedea kaalae</i> .....	<i>Schiedea kaalae</i> .
		<i>Schiedea nuttallii</i> .
		<i>Schiedea obovata</i> .
	<i>Silene perlmanii</i> .....	<i>Silene perlmanii</i> .
		<i>Solanum sandwicense</i> .
		<i>Stenogyne kanehoana</i> .
		<i>Tetramolopium lepidotum</i> ssp. <i>lepidotum</i> .
	<i>Urera kaalae</i> .....	<i>Urera kaalae</i> .
		<i>Viola chamissoniana</i> ssp. <i>chamissoniana</i> .
Oahu—Lowland Mesic—Unit 4 .....	.....	<i>Alectryon macrococcus</i> .
		<i>Asplenium dielerectum</i> .
		<i>Asplenium dielfalcatum</i> .
		<i>Bonamia menziesii</i> .
		<i>Chamaesyce celastroides</i> var. <i>kaenana</i> .
		<i>Ctenitis squamigera</i> .
		<i>Cyanea acuminata</i> .
		<i>Cyanea calycina</i> .
		<i>Cyanea crispa</i> .
		<i>Cyanea grimesiana</i> ssp. <i>grimesiana</i> .
		<i>Cyanea lanceolata</i> .
		<i>Cyanea longiflora</i> .
		<i>Cyanea truncata</i> .
		<i>Cyrtandra dentata</i> .
		<i>Cyrtandra polyantha</i> .
		<i>Delissea subcordata</i> .
		<i>Dracaena forbesii</i> .
		<i>Eugenia koolauensis</i> .
		<i>Gardenia mannii</i> .
		<i>Hesperomannia arborescens</i> .
		<i>Isodendrion laurifolium</i> .
		<i>Isodendrion longifolium</i> .
		<i>Kadua coriacea</i> .
		<i>Labordia cyrtandrae</i> .
		<i>Lobelia monostachya</i> .
		<i>Melicope lydgatei</i> .
		<i>Melicope saint-johnii</i> .
		<i>Phyllostegia hirsuta</i> .
		<i>Phyllostegia mollis</i> .
		<i>Phyllostegia parviflora</i> .
		<i>Plantago princeps</i> .
		<i>Pteralyxia macrocarpa</i> .
		<i>Schiedea kaalae</i> .
		<i>Schiedea nuttallii</i> .
		<i>Solanum sandwicense</i> .
		<i>Tetraplasandra gymnocarpa</i> .
		<i>Tetraplasandra lydgatei</i> .
Oahu—Lowland Mesic—Unit 5 .....	.....	<i>Alectryon macrococcus</i> .
		<i>Asplenium dielerectum</i> .
		<i>Asplenium dielfalcatum</i> .
		<i>Bonamia menziesii</i> .
		<i>Chamaesyce celastroides</i> var. <i>kaenana</i> .
		<i>Ctenitis squamigera</i> .
		<i>Cyanea acuminata</i> .
		<i>Cyanea calycina</i> .
		<i>Cyanea crispa</i> .
		<i>Cyanea grimesiana</i> ssp. <i>grimesiana</i> .
		<i>Cyanea lanceolata</i> .
		<i>Cyanea longiflora</i> .
		<i>Cyanea truncata</i> .
		<i>Cyrtandra dentata</i> .
		<i>Cyrtandra polyantha</i> .
		<i>Delissea subcordata</i> .
		<i>Dracaena forbesii</i> .
		<i>Eugenia koolauensis</i> .
		<i>Gardenia mannii</i> .

Unit name	Species occupied	Species unoccupied
Oahu—Lowland Mesic—Unit 6		<i>Hesperomannia arborescens.</i> <i>Isodendrion laurifolium.</i> <i>Isodendrion longifolium.</i> <i>Kadua coriacea.</i> <i>Labordia cyrtandrae.</i> <i>Lobelia monostachya.</i> <i>Melicope lydgatei.</i> <i>Melicope saint-johnii.</i> <i>Phyllostegia hirsuta.</i> <i>Phyllostegia mollis.</i> <i>Phyllostegia parviflora.</i> <i>Plantago princeps.</i> <i>Pteralyxia macrocarpa.</i> <i>Schiedea kaalae.</i> <i>Schiedea nuttallii.</i> <i>Solanum sandwicense.</i> <i>Tetraplasandra gymnocarpa.</i> <i>Tetraplasandra lydgatei.</i>
		<i>Alectryon macrococcus.</i> <i>Asplenium dielerectum.</i> <i>Asplenium dielfalcatum.</i> <i>Bonamia menziesii.</i> <i>Chamaesyce celastroides var. kaenana.</i> <i>Ctenitis squamigera.</i>
	<i>Cyanea acuminata</i>	<i>Cyanea acuminata.</i>
	<i>Cyanea crispa</i>	<i>Cyanea crispa.</i>
		<i>Cyanea grimesiana ssp. grimesiana.</i> <i>Cyanea lanceolata.</i>
	<i>Cyanea truncata</i>	<i>Cyanea longiflora.</i> <i>Cyanea truncata.</i>
		<i>Cyrtandra dentata.</i> <i>Cyrtandra polyantha.</i> <i>Delissea subcordata.</i> <i>Dracaena forbesii.</i> <i>Eugenia koolauensis.</i>
	<i>Gardenia mannii</i>	<i>Gardenia mannii.</i>
		<i>Hesperomannia arborescens.</i> <i>Isodendrion laurifolium.</i> <i>Isodendrion longifolium.</i> <i>Kadua coriacea.</i> <i>Labordia cyrtandrae.</i> <i>Lobelia monostachya.</i> <i>Melicope lydgatei.</i> <i>Melicope saint-johnii.</i> <i>Phyllostegia hirsuta.</i> <i>Phyllostegia mollis.</i> <i>Phyllostegia parviflora.</i> <i>Plantago princeps.</i>
	<i>Pteralyxia macrocarpa</i>	<i>Pteralyxia macrocarpa.</i>
	<i>Schiedea kaalae</i>	<i>Schiedea kaalae.</i>
		<i>Schiedea nuttallii.</i> <i>Solanum sandwicense.</i> <i>Tetraplasandra gymnocarpa.</i> <i>Tetraplasandra lydgatei.</i>
Oahu—Lowland Mesic—Unit 7		<i>Alectryon macrococcus.</i>
	<i>Asplenium dielerectum</i>	<i>Asplenium dielerectum.</i>
		<i>Asplenium dielfalcatum.</i>
	<i>Bonamia menziesii</i>	<i>Bonamia menziesii.</i>
		<i>Chamaesyce celastroides var. kaenana.</i> <i>Ctenitis squamigera.</i>
	<i>Cyanea acuminata</i>	<i>Cyanea acuminata.</i>
		<i>Cyanea calycina.</i>
		<i>Cyanea crispa.</i>
	<i>Cyanea grimesiana ssp. grimesiana</i>	<i>Cyanea grimesiana ssp. grimesiana.</i>
	<i>Cyanea lanceolata</i>	<i>Cyanea lanceolata.</i>
		<i>Cyanea longiflora.</i>
		<i>Cyanea truncata.</i>
	<i>Cyrtandra polyantha</i>	<i>Cyrtandra dentata.</i> <i>Cyrtandra polyantha.</i>
		<i>Delissea subcordata.</i>
	<i>Dracaena forbesii</i>	<i>Dracaena forbesii.</i>
		<i>Eugenia koolauensis.</i>
		<i>Gardenia mannii.</i>
		<i>Hesperomannia arborescens.</i>
		<i>Isodendrion laurifolium.</i>
		<i>Isodendrion longifolium.</i>
		<i>Kadua coriacea.</i>
		<i>Labordia cyrtandrae.</i>

Unit name	Species occupied	Species unoccupied
	<i>Lobelia monostachya</i> .....	<i>Lobelia monostachya</i> . <i>Melicope lydgatei</i> . <i>Melicope saint-johnii</i> . <i>Phyllostegia hirsuta</i> . <i>Phyllostegia mollis</i> . <i>Phyllostegia parviflora</i> . <i>Plantago princeps</i> .
	<i>Pteralyxia macrocarpa</i> .....	<i>Pteralyxia macrocarpa</i> . <i>Schiedea kaalae</i> . <i>Schiedea nuttallii</i> . <i>Solanum sandwicense</i> . <i>Tetraplasandra gymnocarpa</i> .
	<i>Tetraplasandra lydgatei</i> .....	<i>Tetraplasandra lydgatei</i> .
	* * * * *	* * * * *
Oahu—Lowland Wet—Unit 6 .....		<i>Adenophorus periens</i> . <i>Chamaesyce rockii</i> . <i>Cyanea acuminata</i> . <i>Cyanea calycina</i> . <i>Cyanea crispa</i> . <i>Cyanea grimesiana</i> ssp. <i>grimesiana</i> . <i>Cyanea humboldtiana</i> . <i>Cyanea koolauensis</i> . <i>Cyanea lanceolata</i> . <i>Cyanea purpurellifolia</i> . <i>Cyanea st.-johnii</i> . <i>Cyanea truncata</i> . <i>Cyrtandra dentata</i> . <i>Cyrtandra gracilis</i> . <i>Cyrtandra kaulantha</i> . <i>Cyrtandra polyantha</i> . <i>Cyrtandra sessilis</i> . <i>Cyrtandra subumbellata</i> . <i>Cyrtandra viridiflora</i> . <i>Cyrtandra waiolani</i> . <i>Gardenia mannii</i> .
	<i>Hesperomannia arborescens</i> .....	<i>Hesperomannia arborescens</i> . <i>Isodendron longifolium</i> . <i>Laboria cyrtandrae</i> . <i>Lobelia gaudichaudii</i> ssp. <i>koolauensis</i> . <i>Lobelia oahuensis</i> . <i>Melicope cornuta</i> var. <i>cornuta</i> . <i>Melicope hiiakae</i> . <i>Melicope lydgatei</i> . <i>Myrsine juddii</i> . <i>Phlegmariurus nutans</i> . <i>Phyllostegia hirsuta</i> . <i>Phyllostegia parviflora</i> . <i>Plantago princeps</i> . <i>Platanthera holochila</i> . <i>Psychotria hexandra</i> var. <i>oahuensis</i> . <i>Pteralyxia macrocarpa</i> . <i>Pteris lidgatei</i> . <i>Sanicula purpurea</i> . <i>Tetraplasandra gymnocarpa</i> . <i>Trematolobelia singularis</i> . <i>Viola oahuensis</i> . <i>Zanthoxylum oahuense</i> .
Oahu—Lowland Wet—Unit 7 .....		<i>Adenophorus periens</i> . <i>Chamaesyce rockii</i> . <i>Cyanea acuminata</i> . <i>Cyanea calycina</i> . <i>Cyanea crispa</i> . <i>Cyanea grimesiana</i> ssp. <i>grimesiana</i> . <i>Cyanea humboldtiana</i> . <i>Cyanea koolauensis</i> . <i>Cyanea lanceolata</i> . <i>Cyanea purpurellifolia</i> . <i>Cyanea st.-johnii</i> . <i>Cyanea truncata</i> . <i>Cyrtandra dentata</i> . <i>Cyrtandra gracilis</i> . <i>Cyrtandra kaulantha</i> . <i>Cyrtandra polyantha</i> . <i>Cyrtandra sessilis</i> . <i>Cyrtandra subumbellata</i> . <i>Cyrtandra viridiflora</i> . <i>Cyrtandra waiolani</i> . <i>Gardenia mannii</i> . <i>Hesperomannia arborescens</i>
	<i>Hesperomannia arborescens</i> .....	<i>Hesperomannia arborescens</i> . <i>Isodendron longifolium</i> .



Unit name	Species occupied	Species unoccupied
		<i>Labordia cyrtandrae</i> .
		<i>Lobelia gaudichaudii</i> ssp. <i>koolauensis</i>
		<i>Lobelia oahuensis</i> .
	<i>Melicope cornuta</i> var. <i>cornuta</i> .....	<i>Melicope cornuta</i> var. <i>cornuta</i> .
		<i>Melicope hiiakae</i> .
		<i>Melicope lydgatei</i> .
	<i>Myrsine juddii</i> .....	<i>Myrsine juddii</i> .
	<i>Phlegmariurus nutans</i> .....	<i>Phlegmariurus nutans</i> .
	<i>Phyllostegia hirsuta</i> .....	<i>Phyllostegia hirsuta</i> .
		<i>Phyllostegia parviflora</i> .
		<i>Plantago princeps</i> .
		<i>Platanthera holochila</i> .
		<i>Psychotria hexandra</i> var. <i>oahuensis</i> .
	<i>Pteralyxia macrocarpa</i> .....	<i>Pteralyxia macrocarpa</i> .
	<i>Pteris lidgatei</i> .....	<i>Pteris lidgatei</i> .
		<i>Sanicula purpurea</i> .
	<i>Tetraplasandra gymnocarpa</i> .....	<i>Tetraplasandra gymnocarpa</i> .
		<i>Trematolobelia singularis</i> .
	<i>Viola oahuensis</i> .....	<i>Viola oahuensis</i> .
	<i>Zanthoxylum oahuense</i> .....	<i>Zanthoxylum oahuense</i> .
Oahu—Lowland Wet—Unit 8 .....		<i>Adenophorus periens</i> .
		<i>Chamaesyce rockii</i> .
		<i>Cyanea acuminata</i> .
		<i>Cyanea calycina</i> .
		<i>Cyanea crispa</i> .
		<i>Cyanea grimesiana</i> ssp. <i>grimesiana</i> .
		<i>Cyanea humboldtiana</i> .
		<i>Cyanea koolauensis</i> .
		<i>Cyanea lanceolata</i> .
		<i>Cyanea purpurelifolia</i> .
		<i>Cyanea st.-johnii</i> .
		<i>Cyanea truncata</i> .
		<i>Cyrtandra dentata</i> .
		<i>Cyrtandra gracilis</i> .
	<i>Cyrtandra kaulantha</i> .....	<i>Cyrtandra kaulantha</i> .
		<i>Cyrtandra polyantha</i> .
		<i>Cyrtandra sessilis</i> .
		<i>Cyrtandra subumbellata</i> .
		<i>Cyrtandra viridiflora</i> .
		<i>Cyrtandra waiolani</i> .
		<i>Gardenia mannii</i> .
		<i>Hesperomannia arborescens</i> .
		<i>Isodendron longifolium</i> .
		<i>Labordia cyrtandrae</i> .
		<i>Lobelia gaudichaudii</i> ssp. <i>koolauensis</i> .
		<i>Lobelia oahuensis</i> .
		<i>Melicope cornuta</i> var. <i>cornuta</i> .
		<i>Melicope hiiakae</i> .
		<i>Melicope lydgatei</i> .
		<i>Myrsine juddii</i> .
		<i>Phlegmariurus nutans</i> .
		<i>Phyllostegia hirsuta</i> .
		<i>Phyllostegia parviflora</i> .
		<i>Plantago princeps</i> .
		<i>Platanthera holochila</i> .
		<i>Psychotria hexandra</i> var. <i>oahuensis</i> .
		<i>Pteralyxia macrocarpa</i> .
		<i>Pteris lidgatei</i> .
		<i>Sanicula purpurea</i> .
		<i>Tetraplasandra gymnocarpa</i> .
		<i>Trematolobelia singularis</i> .
		<i>Viola oahuensis</i> .
		<i>Zanthoxylum oahuense</i> .
Oahu—Lowland Wet—Unit 9 .....		<i>Adenophorus periens</i> .
	<i>Chamaesyce rockii</i> .....	<i>Chamaesyce rockii</i> .
		<i>Cyanea acuminata</i> .
	<i>Cyanea calycina</i> .....	<i>Cyanea calycina</i> .
		<i>Cyanea crispa</i> .
		<i>Cyanea grimesiana</i> ssp. <i>grimesiana</i> .
	<i>Cyanea humboldtiana</i> .....	<i>Cyanea humboldtiana</i> .
	<i>Cyanea koolauensis</i> .....	<i>Cyanea koolauensis</i> .
		<i>Cyanea lanceolata</i> .
		<i>Cyanea purpurelifolia</i> .
	<i>Cyanea st.-johnii</i> .....	<i>Cyanea st.-johnii</i> .
		<i>Cyanea truncata</i> .
		<i>Cyrtandra dentata</i> .
		<i>Cyrtandra gracilis</i> .
		<i>Cyrtandra kaulantha</i> .
		<i>Cyrtandra polyantha</i> .
		<i>Cyrtandra sessilis</i> .
		<i>Cyrtandra subumbellata</i> .
	<i>Cyrtandra viridiflora</i> .....	<i>Cyrtandra viridiflora</i> .
		<i>Cyrtandra waiolani</i> .

Unit name	Species occupied	Species unoccupied
	<i>Gardenia mannii</i> .....	<i>Gardenia mannii</i> .
	<i>Hesperomannia arborescens</i> .....	<i>Hesperomannia arborescens</i> .
	<i>Labordia cyrtandrae</i> .....	<i>Isodendron longifolium</i> .
	<i>Lobelia oahuensis</i> .....	<i>Labordia cyrtandrae</i> .
	<i>Melicope comuta</i> var. <i>cornuta</i> .....	<i>Lobelia gaudichaudii</i> ssp. <i>koolauensis</i> .
	<i>Melicope hiiakae</i> .....	<i>Lobelia oahuensis</i> .
	<i>Melicope lydgatei</i> .....	<i>Melicope comuta</i> var. <i>cornuta</i> .
		<i>Melicope hiiakae</i> .
		<i>Melicope lydgatei</i> .
		<i>Myrsine juddii</i> .
		<i>Phlegmariurus nutans</i> .
	<i>Phyllostegia hirsuta</i> .....	<i>Phyllostegia hirsuta</i> .
	<i>Phyllostegia parviflora</i> .....	<i>Phyllostegia parviflora</i> .
	<i>Plantago princeps</i> .....	<i>Plantago princeps</i> .
		<i>Platanthera holochila</i> .
		<i>Psychotria hexandra</i> var. <i>oahuensis</i> .
		<i>Pteralyxia macrocarpa</i> .
	<i>Pteris lidgatei</i> .....	<i>Pteris lidgatei</i> .
		<i>Sanicula purpurea</i> .
	<i>Tetraplasandra gymnocarpa</i> .....	<i>Tetraplasandra gymnocarpa</i> .
		<i>Trematolobelia singularis</i> .
	<i>Viola oahuensis</i> .....	<i>Viola oahuensis</i> .
	<i>Zanthoxylum oahuense</i> .....	<i>Zanthoxylum oahuense</i> .
Oahu—Lowland Wet—Unit 10 .....		<i>Adenophorus periens</i> .
		<i>Chamaesyce rockii</i> .
		<i>Cyanea acuminata</i> .
		<i>Cyanea calycina</i> .
		<i>Cyanea crispa</i> .
		<i>Cyanea grimesiana</i> ssp. <i>grimesiana</i> .
		<i>Cyanea humboldtiana</i> .
		<i>Cyanea koolauensis</i> .
		<i>Cyanea lanceolata</i> .
		<i>Cyanea purpurellifolia</i> .
		<i>Cyanea st.-johnii</i> .
		<i>Cyanea truncata</i> .
		<i>Cyrtandra dentata</i> .
		<i>Cyrtandra gracilis</i> .
		<i>Cyrtandra kaulantha</i> .
		<i>Cyrtandra polyantha</i> .
		<i>Cyrtandra sessilis</i> .
		<i>Cyrtandra subumbellata</i> .
		<i>Cyrtandra viridiflora</i> .
		<i>Cyrtandra waiolani</i> .
		<i>Gardenia mannii</i> .
		<i>Hesperomannia arborescens</i> .
		<i>Isodendron longifolium</i> .
		<i>Labordia cyrtandrae</i> .
		<i>Lobelia gaudichaudii</i> ssp. <i>koolauensis</i> .
		<i>Lobelia oahuensis</i> .
		<i>Melicope comuta</i> var. <i>cornuta</i> .
		<i>Melicope hiiakae</i> .
		<i>Melicope lydgatei</i> .
		<i>Myrsine juddii</i> .
		<i>Phlegmariurus nutans</i> .
		<i>Phyllostegia hirsuta</i> .
		<i>Phyllostegia parviflora</i> .
		<i>Plantago princeps</i> .
		<i>Platanthera holochila</i> .
		<i>Psychotria hexandra</i> var. <i>oahuensis</i> .
		<i>Pteralyxia macrocarpa</i> .
		<i>Pteris lidgatei</i> .
		<i>Sanicula purpurea</i> .
		<i>Tetraplasandra gymnocarpa</i> .
		<i>Trematolobelia singularis</i> .
		<i>Viola oahuensis</i> .
		<i>Zanthoxylum oahuense</i> .
Oahu—Lowland Wet—Unit 11 .....		<i>Adenophorus periens</i> .
		<i>Chamaesyce rockii</i> .
		<i>Cyanea acuminata</i> .
		<i>Cyanea calycina</i> .
		<i>Cyanea crispa</i> .
		<i>Cyanea grimesiana</i> ssp. <i>grimesiana</i> .
		<i>Cyanea humboldtiana</i> .
		<i>Cyanea koolauensis</i> .
		<i>Cyanea lanceolata</i> .
		<i>Cyanea purpurellifolia</i> .
		<i>Cyanea st.-johnii</i> .
		<i>Cyanea truncata</i> .
		<i>Cyrtandra dentata</i> .
		<i>Cyrtandra gracilis</i> .

Unit name	Species occupied	Species unoccupied
Oahu—Lowland Wet—Unit 12		<p> <i>Cyrtandra kaulantha.</i>  <i>Cyrtandra polyantha.</i>  <i>Cyrtandra sessilis.</i>  <i>Cyrtandra subumbellata.</i>  <i>Cyrtandra viridiflora.</i>  <i>Cyrtandra waiolani.</i>  <i>Gardenia mannii.</i>  <i>Hesperomannia arborescens.</i>  <i>Isodendron longifolium.</i>  <i>Lobelia gaudichaudii ssp. koolauensis.</i>  <i>Lobelia oahuensis.</i>  <i>Melicope comuta var. cornuta.</i>  <i>Melicope hiiakae.</i>  <i>Melicope lydgatei.</i>  <i>Myrsine juddii.</i>  <i>Phlegmariurus nutans.</i>  <i>Phyllostegia hirsuta.</i>  <i>Phyllostegia parviflora.</i>  <i>Plantago princeps.</i>  <i>Platanthera holochila.</i>  <i>Psychotria hexandra var. oahuensis.</i>  <i>Pteralyxia macrocarpa.</i>  <i>Pteris lidgatei.</i>  <i>Sanicula purpurea.</i>  <i>Tetraplasandra gymnocarpa.</i>  <i>Trematolobelia singularis.</i>  <i>Viola oahuensis.</i>  <i>Zanthoxylum oahuense.</i>  <i>Adenophorus periens.</i>  <i>Chamaesyce rockii.</i>  <i>Cyanea acuminata.</i>  <i>Cyanea calycina.</i>  <i>Cyanea crispa.</i>  <i>Cyanea grimesiana ssp. grimesiana.</i>  <i>Cyanea humboldtiana.</i>  <i>Cyanea koolauensis.</i>  <i>Cyanea lanceolata.</i>  <i>Cyanea purpurellifolia.</i>  <i>Cyanea st.-johnii.</i>  <i>Cyanea truncata.</i>  <i>Cyrtandra dentata.</i>  <i>Cyrtandra gracilis.</i>  <i>Cyrtandra kaulantha.</i>  <i>Cyrtandra polyantha.</i>  <i>Cyrtandra sessilis.</i>  <i>Cyrtandra subumbellata.</i>  <i>Cyrtandra viridiflora.</i>  <i>Cyrtandra waiolani.</i>  <i>Gardenia mannii.</i>  <i>Hesperomannia arborescens.</i>  <i>Isodendron longifolium.</i>  <i>Lobelia gaudichaudii ssp. koolauensis.</i>  <i>Lobelia oahuensis.</i>  <i>Melicope comuta var. cornuta.</i>  <i>Melicope hiiakae.</i>  <i>Melicope lydgatei.</i>  <i>Myrsine juddii.</i>  <i>Phlegmariurus nutans.</i>  <i>Phyllostegia hirsuta.</i>  <i>Phyllostegia parviflora.</i>  <i>Plantago princeps.</i>  <i>Platanthera holochila.</i>  <i>Psychotria hexandra var. oahuensis.</i>  <i>Pteralyxia macrocarpa.</i>  <i>Pteris lidgatei.</i>  <i>Sanicula purpurea.</i>  <i>Tetraplasandra gymnocarpa.</i>  <i>Trematolobelia singularis.</i>  <i>Viola oahuensis.</i>  <i>Zanthoxylum oahuense.</i>  <i>Adenophorus periens.</i>  <i>Chamaesyce rockii.</i>  <i>Cyanea acuminata.</i>  <i>Cyanea calycina.</i>  <i>Cyanea crispa.</i>  <i>Cyanea grimesiana ssp. grimesiana.</i>  <i>Cyanea humboldtiana.</i>  <i>Cyanea koolauensis.</i> </p>
Oahu—Lowland Wet—Unit 13		<p> <i>Adenophorus periens.</i>  <i>Chamaesyce rockii.</i>  <i>Cyanea acuminata.</i>  <i>Cyanea calycina.</i>  <i>Cyanea crispa.</i>  <i>Cyanea grimesiana ssp. grimesiana.</i>  <i>Cyanea humboldtiana.</i>  <i>Cyanea koolauensis.</i> </p>

Unit name	Species occupied	Species unoccupied
Oahu—Lowland Wet—Unit 14	<i>Cyanea koolauensis</i>	<p> <i>Cyanea lanceolata.</i>  <i>Cyanea purpurellifolia.</i>  <i>Cyanea st.-johnii.</i>  <i>Cyanea truncata.</i>  <i>Cyrtandra dentata.</i>  <i>Cyrtandra gracilis.</i>  <i>Cyrtandra kaulantha.</i>  <i>Cyrtandra polyantha.</i>  <i>Cyrtandra sessilis.</i>  <i>Cyrtandra subumbellata.</i>  <i>Cyrtandra viridiflora.</i>  <i>Cyrtandra waiolani.</i>  <i>Gardenia manni.</i>  <i>Hesperomannia arborescens.</i>  <i>Isodendron longifolium.</i>  <i>Labordia cyrtandrae.</i>  <i>Lobelia gaudichaudii</i> ssp. <i>koolauensis.</i>  <i>Lobelia oahuensis.</i>  <i>Melicope cornuta</i> var. <i>cornuta.</i>  <i>Melicope hiiakae.</i>  <i>Melicope lydgatei.</i>  <i>Myrsine juddii.</i>  <i>Phlegmariurus nutans.</i>  <i>Phyllostegia hirsuta.</i>  <i>Phyllostegia parviflora.</i>  <i>Plantago princeps.</i>  <i>Platanthera holochila.</i>  <i>Psychotria hexandra</i> var. <i>oahuensis.</i>  <i>Pteralyxia macrocarpa.</i>  <i>Pteris lidgatei.</i>  <i>Sanicula purpurea.</i>  <i>Tetraplasandra gymnocarpa.</i>  <i>Trematolobelia singularis.</i>  <i>Viola oahuensis.</i>  <i>Zanthoxylum oahuense.</i>  <i>Adenophorus periens.</i>  <i>Chamaesyce rockii.</i>  <i>Cyanea acuminata.</i>  <i>Cyanea calycina.</i>  <i>Cyanea crispa.</i>  <i>Cyanea grimesiana</i> ssp. <i>grimesiana.</i>  <i>Cyanea humboldtiana.</i>  <i>Cyanea koolauensis.</i>  <i>Cyanea lanceolata.</i>  <i>Cyanea purpurellifolia.</i>  <i>Cyanea st.-johnii.</i>  <i>Cyanea truncata.</i>  <i>Cyrtandra dentata.</i>  <i>Cyrtandra gracilis.</i>  <i>Cyrtandra kaulantha.</i>  <i>Cyrtandra polyantha.</i>  <i>Cyrtandra sessilis.</i>  <i>Cyrtandra subumbellata.</i>  <i>Cyrtandra viridiflora.</i>  <i>Cyrtandra waiolani.</i>  <i>Gardenia manni.</i>  <i>Hesperomannia arborescens.</i>  <i>Isodendron longifolium.</i>  <i>Labordia cyrtandrae.</i>  <i>Lobelia gaudichaudii</i> ssp. <i>koolauensis.</i>  <i>Lobelia oahuensis.</i>  <i>Melicope cornuta</i> var. <i>cornuta.</i>  <i>Melicope hiiakae.</i>  <i>Melicope lydgatei.</i>  <i>Myrsine juddii.</i>  <i>Phlegmariurus nutans.</i>  <i>Phyllostegia hirsuta.</i>  <i>Phyllostegia parviflora.</i>  <i>Plantago princeps.</i>  <i>Platanthera holochila.</i>  <i>Psychotria hexandra</i> var. <i>oahuensis.</i>  <i>Pteralyxia macrocarpa.</i>  <i>Pteris lidgatei.</i>  <i>Sanicula purpurea.</i>  <i>Tetraplasandra gymnocarpa.</i>  <i>Trematolobelia singularis.</i>  <i>Viola oahuensis.</i>  <i>Zanthoxylum oahuense.</i>  <i>Adenophorus periens.</i>  <i>Chamaesyce rockii.</i>  <i>Cyanea acuminata.</i>  <i>Cyanea calycina.</i> </p>
Oahu—Lowland Wet—Unit 15		

Unit name	Species occupied	Species unoccupied
	<i>Cyanea crispa</i> .....	<i>Cyanea crispa</i> . <i>Cyanea grimesiana</i> ssp. <i>grimesiana</i> . <i>Cyanea humboldtiana</i> . <i>Cyanea koolauensis</i> . <i>Cyanea lanceolata</i> . <i>Cyanea purpurellifolia</i> . <i>Cyanea st.-johnii</i> . <i>Cyanea truncata</i> . <i>Cyrtandra dentata</i> . <i>Cyrtandra gracilis</i> . <i>Cyrtandra kaulantha</i> . <i>Cyrtandra polyantha</i> . <i>Cyrtandra sessilis</i> . <i>Cyrtandra subumbellata</i> . <i>Cyrtandra viridiflora</i> . <i>Cyrtandra waiolani</i> . <i>Gardenia mannii</i> . <i>Hesperomannia arborescens</i> . <i>Isodendron longifolium</i> . <i>Lobelia gaudichaudii</i> ssp. <i>koolauensis</i> . <i>Lobelia oahuensis</i> . <i>Melicope cornuta</i> var. <i>cornuta</i> . <i>Melicope hiiakae</i> . <i>Melicope lydgatei</i> . <i>Myrsine juddii</i> . <i>Phlegmariurus nutans</i> . <i>Phyllostegia hirsuta</i> . <i>Phyllostegia parviflora</i> . <i>Plantago princeps</i> . <i>Platanthera holochila</i> . <i>Psychotria hexandra</i> var. <i>oahuensis</i> . <i>Pteralyxia macrocarpa</i> . <i>Pteris lidgatei</i> . <i>Sanicula purpurea</i> . <i>Tetraplasandra gymnocarpa</i> . <i>Trematobelia singularis</i> . <i>Viola oahuensis</i> . <i>Zanthoxylum oahuense</i> .
Oahu—Lowland Wet—Unit 16 .....		
	<i>Cyanea acuminata</i> .....	<i>Cyanea acuminata</i> .
	<i>Cyanea calycina</i> .....	<i>Cyanea calycina</i> .
	<i>Cyanea crispa</i> .....	<i>Cyanea crispa</i> . <i>Cyanea grimesiana</i> ssp. <i>grimesiana</i> .
	<i>Cyanea humboldtiana</i> .....	<i>Cyanea humboldtiana</i> .
	<i>Cyanea koolauensis</i> .....	<i>Cyanea koolauensis</i> .
	<i>Cyanea lanceolata</i> .....	<i>Cyanea lanceolata</i> . <i>Cyanea purpurellifolia</i> .
	<i>Cyanea st.-johnii</i> .....	<i>Cyanea st.-johnii</i> . <i>Cyanea truncata</i> .
	<i>Cyrtandra gracilis</i> .....	<i>Cyrtandra dentata</i> . <i>Cyrtandra gracilis</i> . <i>Cyrtandra kaulantha</i> .
	<i>Cyrtandra polyantha</i> .....	<i>Cyrtandra polyantha</i> .
	<i>Cyrtandra sessilis</i> .....	<i>Cyrtandra sessilis</i> . <i>Cyrtandra subumbellata</i> . <i>Cyrtandra viridiflora</i> . <i>Cyrtandra waiolani</i> .
	<i>Gardenia mannii</i> .....	<i>Gardenia mannii</i> .
	<i>Hesperomannia arborescens</i> .....	<i>Hesperomannia arborescens</i> . <i>Isodendron longifolium</i> . <i>Lobelia gaudichaudii</i> ssp. <i>koolauensis</i> . <i>Lobelia oahuensis</i> .
	<i>Melicope cornuta</i> var. <i>cornuta</i> .....	<i>Melicope cornuta</i> var. <i>cornuta</i> . <i>Melicope hiiakae</i> . <i>Melicope lydgatei</i> . <i>Myrsine juddii</i> . <i>Phlegmariurus nutans</i> . <i>Phyllostegia hirsuta</i> . <i>Phyllostegia parviflora</i> . <i>Plantago princeps</i> . <i>Platanthera holochila</i> . <i>Psychotria hexandra</i> var. <i>oahuensis</i> . <i>Pteralyxia macrocarpa</i> . <i>Pteris lidgatei</i> .
	<i>Sanicula purpurea</i> .....	<i>Sanicula purpurea</i> .
	<i>Tetraplasandra gymnocarpa</i> .....	<i>Tetraplasandra gymnocarpa</i> . <i>Trematobelia singularis</i> . <i>Viola oahuensis</i> . <i>Zanthoxylum oahuense</i> .

Unit name	Species occupied	Species unoccupied
Oahu—Dry Cliff—Unit 1		
	<i>Alectryon macrococcus</i>	<i>Abutilon sandwicense.</i> <i>Achyranthes splendens</i> var. <i>rotundata.</i> <i>Alectryon macrococcus.</i> <i>Asplenium dielfalcatum.</i> <i>Bonamia menziesii.</i> <i>Cenchrus agrimonoides.</i> <i>Chamaesyce herbstii.</i> <i>Chamaesyce kuwaleana.</i> <i>Cyanea grimesiana</i> ssp. <i>obatae.</i> <i>Cyrtandra dentata.</i> <i>Diellia unisora.</i> <i>Dracaena forbesii.</i> <i>Dubautia herbstobatae.</i> <i>Eragrostis fosbergii.</i> <i>Flueggea neowawraea.</i> <i>Gouania meyenii.</i> <i>Gouania vitifolia.</i> <i>Isodendrion laurifolium.</i> <i>Isodendrion pyriform.</i>
	<i>Kadua degeneri</i>	<i>Kadua degeneri.</i> <i>Kadua parvula.</i> <i>Korthalsella degeneri.</i> <i>Lepidium arbuscula.</i> <i>Lipochaeta lobata</i> var. <i>leptophylla.</i> <i>Lobelia niihauensis.</i> <i>Melanthera tenuifolia.</i> <i>Melicope cornuta</i> var. <i>decurrens.</i> <i>Melicope makahae.</i> <i>Melicope saint-johnii.</i> <i>Neraudia angulata.</i> <i>Nototrichium humile.</i> <i>Peucedanum sandwicense.</i> <i>Phyllostegia kaalaensis.</i>
	<i>Plantago princeps</i>	<i>Plantago princeps.</i> <i>Pteralyxia macrocarpa.</i> <i>Sanicula mariversa.</i> <i>Schiedea hookeri.</i>
	<i>Schiedea obovata</i>	<i>Schiedea obovata.</i> <i>Schiedea trinervis.</i> <i>Silene lanceolata.</i> <i>Silene perlmanii.</i> <i>Spermolepis hawaiiensis.</i> <i>Tetramolopium filiforme.</i> <i>Tetramolopium lepidotum</i> ssp. <i>lepidotum.</i>
	<i>Viola chamissoniana</i> ssp. <i>chamissoniana.</i>	
Oahu—Dry Cliff—Unit 2		
	<i>Abutilon sandwicense</i>	<i>Abutilon sandwicense.</i> <i>Achyranthes splendens</i> var. <i>rotundata.</i> <i>Alectryon macrococcus.</i> <i>Asplenium dielfalcatum.</i> <i>Bonamia menziesii.</i> <i>Cenchrus agrimonoides.</i> <i>Chamaesyce herbstii.</i> <i>Chamaesyce kuwaleana.</i> <i>Cyanea grimesiana</i> ssp. <i>obatae.</i> <i>Cyrtandra dentata.</i> <i>Diellia unisora.</i> <i>Dracaena forbesii.</i> <i>Dubautia herbstobatae.</i> <i>Eragrostis fosbergii.</i> <i>Flueggea neowawraea.</i> <i>Gouania meyenii.</i> <i>Gouania vitifolia.</i> <i>Isodendrion laurifolium.</i> <i>Isodendrion pyriform.</i>
	<i>Dracaena forbesii</i>	<i>Dracaena forbesii.</i>
	<i>Dubautia herbstobatae</i>	<i>Dubautia herbstobatae.</i> <i>Eragrostis fosbergii.</i> <i>Flueggea neowawraea.</i> <i>Gouania meyenii.</i> <i>Gouania vitifolia.</i> <i>Isodendrion laurifolium.</i> <i>Isodendrion pyriform.</i>
	<i>Gouania vitifolia</i>	<i>Gouania vitifolia.</i> <i>Isodendrion laurifolium.</i> <i>Isodendrion pyriform.</i>
	<i>Kadua parvula</i>	<i>Kadua degeneri.</i> <i>Kadua parvula.</i> <i>Korthalsella degeneri.</i>
	<i>Lepidium arbuscula</i>	<i>Lepidium arbuscula.</i> <i>Lipochaeta lobata</i> var. <i>leptophylla.</i>
	<i>Lobelia niihauensis</i>	<i>Lobelia niihauensis.</i>
	<i>Melanthera tenuifolia</i>	<i>Melanthera tenuifolia.</i>
	<i>Melicope cornuta</i> var. <i>decurrens</i>	<i>Melicope cornuta</i> var. <i>decurrens.</i>
	<i>Melicope makahae</i>	<i>Melicope makahae.</i> <i>Melicope saint-johnii.</i> <i>Neraudia angulata.</i> <i>Nototrichium humile.</i> <i>Peucedanum sandwicense.</i>
	<i>Nototrichium humile</i>	<i>Nototrichium humile.</i>
	<i>Peucedanum sandwicense</i>	<i>Peucedanum sandwicense.</i> <i>Phyllostegia kaalaensis.</i> <i>Plantago princeps.</i> <i>Pteralyxia macrocarpa.</i>
	<i>Sanicula mariversa</i>	<i>Sanicula mariversa.</i>

Unit name	Species occupied	Species unoccupied
	<i>Schiedea hookeri</i> .....	<i>Schiedea hookeri</i> . <i>Schiedea obovata</i> . <i>Schiedea trinervis</i> . <i>Silene lanceolata</i> . <i>Silene perlmantii</i> . <i>Spermolepis hawaiiensis</i> .
	<i>Tetramolopium filiforme</i> .....	<i>Tetramolopium filiforme</i> . <i>Tetramolopium lepidotum</i> ssp. <i>lepidotum</i> .
Oahu—Dry Cliff—Unit 3 .....	<i>Viola chamissoniana</i> ssp. <i>chamissoniana</i> .....	<i>Viola chamissoniana</i> ssp. <i>chamissoniana</i> .
	<i>Abutilon sandwicense</i> .....	<i>Abutilon sandwicense</i> . <i>Achyranthes splendens</i> var. <i>rotundata</i> .
	<i>Alectryon macrococcus</i> .....	<i>Alectryon macrococcus</i> .
	<i>Asplenium dielfalcatum</i> .....	<i>Asplenium dielfalcatum</i> .
	<i>Bonamia menziesii</i> .....	<i>Bonamia menziesii</i> . <i>Cenchrus agrimonioides</i> . <i>Chamaesyce herbstii</i> . <i>Chamaesyce kuwaleana</i> . <i>Cyanea grimesiana</i> ssp. <i>obatae</i> . <i>Cyrtandra dentata</i> . <i>Diellia unisora</i> .
	<i>Dracaena forbesii</i> .....	<i>Dracaena forbesii</i> .
	<i>Dubautia herbstobatae</i> .....	<i>Dubautia herbstobatae</i> .
	<i>Eragrostis fosbergii</i> .....	<i>Eragrostis fosbergii</i> .
	<i>Flueggea neowawraea</i> .....	<i>Flueggea neowawraea</i> .
	<i>Gouania meyenii</i> .....	<i>Gouania meyenii</i> . <i>Gouania vitifolia</i> .
	<i>Isodendrion laurifolium</i> .....	<i>Isodendrion laurifolium</i> . <i>Isodendrion pyrifolium</i> . <i>Kadua degeneri</i> . <i>Kadua parvula</i> .
	<i>Korthalsella degeneri</i> .....	<i>Korthalsella degeneri</i> .
	<i>Lepidium arbuscula</i> .....	<i>Lepidium arbuscula</i> .
	<i>Lipochaeta lobata</i> var. <i>leptophylla</i> .....	<i>Lipochaeta lobata</i> var. <i>leptophylla</i> .
	<i>Lobelia niihauensis</i> .....	<i>Lobelia niihauensis</i> .
	<i>Melanthera tenuifolia</i> .....	<i>Melanthera tenuifolia</i> . <i>Melicope cornuta</i> var. <i>decurrens</i> .
	<i>Melicope makahae</i> .....	<i>Melicope makahae</i> . <i>Melicope saint-johnii</i> .
	<i>Neraudia angulata</i> .....	<i>Neraudia angulata</i> .
	<i>Nototrichium humile</i> .....	<i>Nototrichium humile</i> .
	<i>Peucedanum sandwicense</i> .....	<i>Peucedanum sandwicense</i> .
	<i>Phyllostegia kaalaensis</i> .....	<i>Phyllostegia kaalaensis</i> . <i>Plantago princeps</i> .
	<i>Pteralyxia macrocarpa</i> .....	<i>Pteralyxia macrocarpa</i> . <i>Sanicula mariversa</i> .
	<i>Schiedea hookeri</i> .....	<i>Schiedea hookeri</i> . <i>Schiedea obovata</i> . <i>Schiedea trinervis</i> .
	<i>Silene lanceolata</i> .....	<i>Silene lanceolata</i> . <i>Silene perlmantii</i> . <i>Spermolepis hawaiiensis</i> .
	<i>Tetramolopium filiforme</i> .....	<i>Tetramolopium filiforme</i> . <i>Tetramolopium lepidotum</i> ssp. <i>lepidotum</i> .
Oahu—Dry Cliff—Unit 4 .....	<i>Viola chamissoniana</i> ssp. <i>chamissoniana</i> .....	<i>Viola chamissoniana</i> ssp. <i>chamissoniana</i> .
	<i>Abutilon sandwicense</i> .....	<i>Abutilon sandwicense</i> . <i>Achyranthes splendens</i> var. <i>rotundata</i> .
	<i>Alectryon macrococcus</i> .....	<i>Alectryon macrococcus</i> . <i>Asplenium dielfalcatum</i> .
	<i>Bonamia menziesii</i> .....	<i>Bonamia menziesii</i> . <i>Cenchrus agrimonioides</i> . <i>Chamaesyce herbstii</i> .
	<i>Chamaesyce kuwaleana</i> .....	<i>Chamaesyce kuwaleana</i> . <i>Cyanea grimesiana</i> ssp. <i>obatae</i> . <i>Cyrtandra dentata</i> . <i>Diellia unisora</i> . <i>Dracaena forbesii</i> . <i>Dubautia herbstobatae</i> . <i>Eragrostis fosbergii</i> . <i>Flueggea neowawraea</i> . <i>Gouania meyenii</i> . <i>Gouania vitifolia</i> . <i>Isodendrion laurifolium</i> . <i>Isodendrion pyrifolium</i> . <i>Kadua degeneri</i> . <i>Kadua parvula</i> . <i>Korthalsella degeneri</i> . <i>Lepidium arbuscula</i> . <i>Lipochaeta lobata</i> var. <i>leptophylla</i> . <i>Lobelia niihauensis</i> . <i>Melanthera tenuifolia</i> .

Unit name	Species occupied	Species unoccupied
Oahu—Dry Cliff—Unit 6	<i>Spermolepis hawaiiensis</i>	<i>Melicope cornuta</i> var. <i>decurrens</i> . <i>Melicope makahae</i> . <i>Melicope saint-johnii</i> . <i>Neraudia angulata</i> . <i>Nototrichium humile</i> . <i>Peucedanum sandwicense</i> . <i>Phyllostegia kaalaensis</i> . <i>Plantago princeps</i> . <i>Pteralyxia macrocarpa</i> . <i>Sanicula mariversa</i> . <i>Schiedea hookeri</i> . <i>Schiedea obovata</i> . <i>Schiedea trinervis</i> . <i>Silene lanceolata</i> . <i>Silene perlmanni</i> . <i>Spermolepis hawaiiensis</i> . <i>Tetramolopium filiforme</i> . <i>Tetramolopium lepidotum</i> ssp. <i>lepidotum</i> . <i>Viola chamissoniana</i> ssp. <i>chamissoniana</i> . <i>Abutilon sandwicense</i> . <i>Achyranthes splendens</i> var. <i>rotundata</i> . <i>Alectryon macrococcus</i> . <i>Asplenium dielfalcatum</i> . <i>Bonamia menziesii</i> .
	<i>Cenchrus agrimonioides</i>	<i>Cenchrus agrimonioides</i> . <i>Chamaesyce herbstii</i> . <i>Chamaesyce kuwaleana</i> . <i>Cyanea grimesiana</i> ssp. <i>obatae</i> . <i>Cyrtandra dentata</i> .
	<i>Diellia unisora</i>	<i>Diellia unisora</i> .
	<i>Dracaena forbesii</i>	<i>Dracaena forbesii</i> . <i>Dubautia herbstobatae</i> . <i>Eragrostis fosbergii</i> .
	<i>Flueggea neowawraea</i>	<i>Flueggea neowawraea</i> . <i>Gouania meyenii</i> . <i>Gouania vitifolia</i> . <i>Isodendron laurifolium</i> . <i>Isodendron pyrifolium</i> . <i>Kadua degeneri</i> . <i>Kadua parvula</i> . <i>Korthalsella degeneri</i> .
	<i>Lepidium arbuscula</i>	<i>Lepidium arbuscula</i> .
	<i>Lobelia niihauensis</i>	<i>Lipochaeta lobata</i> var. <i>leptophylla</i> . <i>Lobelia niihauensis</i> . <i>Melanthera tenuifolia</i> .
	<i>Melicope saint-johnii</i>	<i>Melicope cornuta</i> var. <i>decurrens</i> . <i>Melicope makahae</i> . <i>Melicope saint-johnii</i> .
	<i>Neraudia angulata</i>	<i>Neraudia angulata</i> . <i>Nototrichium humile</i> . <i>Peucedanum sandwicense</i> .
	<i>Plantago princeps</i>	<i>Phyllostegia kaalaensis</i> . <i>Plantago princeps</i> . <i>Pteralyxia macrocarpa</i> . <i>Sanicula mariversa</i> . <i>Schiedea hookeri</i> . <i>Schiedea obovata</i> . <i>Schiedea trinervis</i> . <i>Silene lanceolata</i> .
	<i>Silene perlmanni</i>	<i>Silene perlmanni</i> . <i>Spermolepis hawaiiensis</i> . <i>Tetramolopium filiforme</i> .
Oahu—Dry Cliff—Unit 7a	<i>Tetramolopium lepidotum</i> ssp. <i>lepidotum</i>	<i>Tetramolopium lepidotum</i> ssp. <i>lepidotum</i> . <i>Viola chamissoniana</i> ssp. <i>chamissoniana</i> . <i>Abutilon sandwicense</i> . <i>Achyranthes splendens</i> var. <i>rotundata</i> . <i>Alectryon macrococcus</i> . <i>Asplenium dielfalcatum</i> . <i>Bonamia menziesii</i> . <i>Cenchrus agrimonioides</i> . <i>Chamaesyce herbstii</i> . <i>Chamaesyce kuwaleana</i> . <i>Cyanea grimesiana</i> ssp. <i>obatae</i> . <i>Cyrtandra dentata</i> . <i>Diellia unisora</i> .
	<i>Dracaena forbesii</i>	<i>Dracaena forbesii</i> . <i>Dubautia herbstobatae</i> . <i>Eragrostis fosbergii</i> .
	<i>Flueggea neowawraea</i>	<i>Flueggea neowawraea</i> . <i>Gouania meyenii</i> . <i>Gouania vitifolia</i> .



Unit name	Species occupied	Species unoccupied
		<i>Isodendron laurifolium</i> . <i>Isodendron pyrifolium</i> . <i>Kadua degeneri</i> . <i>Kadua parvula</i> . <i>Korthalsella degeneri</i> . <i>Lepidium arbuscula</i> . <i>Lipochaeta lobata</i> var. <i>leptophylla</i> . <i>Lobelia niihauensis</i> . <i>Melanthera tenuifolia</i> . <i>Melicope comuta</i> var. <i>decurrens</i> . <i>Melicope makahae</i> . <i>Melicope saint-johnii</i> . <i>Neraudia angulata</i> . <i>Nototrichium humile</i> . <i>Peucedanum sandwicense</i> . <i>Phyllostegia kaalaensis</i> . <i>Plantago princeps</i> . <i>Pteralyxia macrocarpa</i> . <i>Sanicula mariversa</i> . <i>Schiedea hookeri</i> . <i>Schiedea obovata</i> . <i>Schiedea trinervis</i> . <i>Silene lanceolata</i> . <i>Silene perlmanii</i> . <i>Spermolepis hawaiiensis</i> . <i>Tetramolopium filiforme</i> . <i>Tetramolopium lepidotum</i> ssp. <i>lepidotum</i> . <i>Viola chamissoniana</i> ssp. <i>chamissoniana</i> . <i>Abutilon sandwicense</i> . <i>Achyranthes splendens</i> var. <i>rotundata</i> . <i>Alectryon macrococcus</i> . <i>Asplenium dielfalcatum</i> . <i>Bonamia menziesii</i> . <i>Cenchrus agrimonioides</i> . <i>Chamaesyce herbstii</i> . <i>Chamaesyce kuwaleana</i> . <i>Cyanea grimesiana</i> ssp. <i>obatae</i> . <i>Cyrtandra dentata</i> . <i>Diellia unisora</i> . <i>Dracaena forbesii</i> . <i>Dubautia herbstobatae</i> . <i>Eragrostis fosbergii</i> . <i>Flueggea neowawraea</i> . <i>Gouania meyenii</i> . <i>Gouania vitifolia</i> . <i>Isodendron laurifolium</i> . <i>Isodendron pyrifolium</i> . <i>Kadua degeneri</i> . <i>Kadua parvula</i> . <i>Korthalsella degeneri</i> . <i>Lepidium arbuscula</i> . <i>Lipochaeta lobata</i> var. <i>leptophylla</i> . <i>Lobelia niihauensis</i> . <i>Melanthera tenuifolia</i> . <i>Melicope comuta</i> var. <i>decurrens</i> . <i>Melicope makahae</i> . <i>Melicope saint-johnii</i> . <i>Neraudia angulata</i> . <i>Nototrichium humile</i> . <i>Peucedanum sandwicense</i> . <i>Phyllostegia kaalaensis</i> . <i>Plantago princeps</i> . <i>Pteralyxia macrocarpa</i> . <i>Sanicula mariversa</i> . <i>Schiedea hookeri</i> . <i>Schiedea obovata</i> . <i>Schiedea trinervis</i> . <i>Silene lanceolata</i> . <i>Silene perlmanii</i> . <i>Spermolepis hawaiiensis</i> . <i>Tetramolopium filiforme</i> . <i>Tetramolopium lepidotum</i> ssp. <i>lepidotum</i> . <i>Viola chamissoniana</i> ssp. <i>chamissoniana</i> .
Oahu—Dry Cliff—Unit 7b		
		<i>Abutilon sandwicense</i> . <i>Achyranthes splendens</i> var. <i>rotundata</i> . <i>Alectryon macrococcus</i> . <i>Asplenium dielfalcatum</i> . <i>Bonamia menziesii</i> . <i>Cenchrus agrimonioides</i> . <i>Chamaesyce herbstii</i> . <i>Chamaesyce kuwaleana</i> . <i>Cyanea grimesiana</i> ssp. <i>obatae</i> .
Oahu—Dry Cliff—Unit 8	<i>Abutilon sandwicense</i>	
		<i>Abutilon sandwicense</i> . <i>Achyranthes splendens</i> var. <i>rotundata</i> . <i>Alectryon macrococcus</i> . <i>Asplenium dielfalcatum</i> . <i>Bonamia menziesii</i> . <i>Cenchrus agrimonioides</i> . <i>Chamaesyce herbstii</i> . <i>Chamaesyce kuwaleana</i> . <i>Cyanea grimesiana</i> ssp. <i>obatae</i> .
	<i>Bonamia menziesii</i>	

Unit name	Species occupied	Species unoccupied
		<i>Cyrtandra dentata.</i> <i>Diellia unisora.</i> <i>Dracaena forbesii.</i> <i>Dubautia herbstobatae.</i> <i>Eragrostis fosbergii.</i> <i>Flueggea neowawraea.</i> <i>Gouania meyenii.</i> <i>Gouania vitifolia.</i> <i>Isodendron laurifolium.</i> <i>Isodendron pyrifolium.</i> <i>Kadua degeneri.</i> <i>Kadua parvula.</i> <i>Korthalsella degeneri.</i> <i>Lepidium arbuscula.</i> <i>Lipochaeta lobata</i> var. <i>leptophylla</i> <i>Lobelia niihauensis.</i> <i>Melanthera tenuifolia.</i> <i>Melicope cornuta</i> var. <i>decurrens.</i> <i>Melicope makahae.</i> <i>Melicope saint-johnii.</i> <i>Neraudia angulata.</i> <i>Nototrichium humile.</i> <i>Peucedanum sandwicense.</i> <i>Phyllostegia kaalaensis.</i> <i>Plantago princeps.</i> <i>Pteralyxia macrocarpa.</i> <i>Sanicula marivera.</i> <i>Schiedea hookeri.</i> <i>Schiedea obovata.</i> <i>Schiedea trinervis.</i> <i>Silene lanceolata.</i> <i>Silene perlmanii.</i> <i>Spermolepis hawaiiensis.</i> <i>Tetramolopium filiforme.</i> <i>Tetramolopium lepidotum</i> ssp. <i>lepidotum.</i> <i>Viola chamissoniana</i> ssp. <i>chamissoniana.</i>
		<p style="text-align: center;">* * * * *</p>
Oahu—Wet Cliff—Unit 6		<i>Adenophorus periens.</i> <i>Chamaesyce deppeana.</i> <i>Chamaesyce rockii.</i> <i>Cyanea acuminata.</i> <i>Cyanea calycina.</i> <i>Cyanea crispa.</i> <i>Cyanea humboldtiana.</i> <i>Cyanea purpurellifolia.</i> <i>Cyanea st.-johnii.</i> <i>Cyanea truncata.</i> <i>Cyrtandra kaulantha.</i> <i>Cyrtandra sessilis.</i> <i>Cyrtandra subumbellata.</i> <i>Cyrtandra viridiflora.</i> <i>Labordia cyrtandrae.</i> <i>Lobelia oahuensis.</i> <i>Lysimachia filifolia.</i> <i>Phlegmariurus nutans.</i> <i>Phyllostegia hirsuta.</i> <i>Phyllostegia parviflora.</i> <i>Plantago princeps.</i> <i>Psychotria hexandra</i> var. <i>oahuensis.</i> <i>Pteralyxia macrocarpa.</i> <i>Sanicula purpurea.</i> <i>Schiedea kaalae.</i> <i>Tetraplasandra gymnocarpa.</i> <i>Trematolobelia singularis.</i> <i>Viola oahuensis.</i>
Oahu—Wet Cliff—Unit 7		<i>Adenophorus periens.</i> <i>Chamaesyce deppeana.</i> <i>Chamaesyce rockii.</i> <i>Cyanea acuminata.</i> <i>Cyanea calycina.</i> <i>Cyanea crispa.</i> <i>Cyanea humboldtiana.</i> <i>Cyanea purpurellifolia.</i> <i>Cyanea st.-johnii.</i> <i>Cyanea truncata.</i> <i>Cyrtandra kaulantha.</i> <i>Cyrtandra sessilis.</i> <i>Cyrtandra subumbellata.</i> <i>Cyrtandra viridiflora.</i> <i>Labordia cyrtandrae.</i> <i>Lobelia oahuensis.</i>

Unit name	Species occupied	Species unoccupied
		<i>Lysimachia filifolia</i> . <i>Phlegmarius nutans</i> . <i>Phyllostegia hirsuta</i> . <i>Phyllostegia parviflora</i> . <i>Plantago princeps</i> .
	<i>Psychotria hexandra</i> var. <i>oahuensis</i> .....	<i>Psychotria hexandra</i> var. <i>oahuensis</i> . <i>Pteralyxia macrocarpa</i> . <i>Sanicula purpurea</i> .
	<i>Schiedea kaalae</i> .....	<i>Schiedea kaalae</i> . <i>Tetraplasandra gymnocarpa</i> . <i>Trematolobelia singularis</i> . <i>Viola oahuensis</i> .
Oahu—Wet Cliff—Unit 8 .....		<i>Adenophorus periens</i> . <i>Chamaesyce deppeana</i> . <i>Chamaesyce rockii</i> . <i>Cyanea acuminata</i> . <i>Cyanea calycina</i> . <i>Cyanea crispa</i> . <i>Cyanea humboldtiana</i> . <i>Cyanea purpurellifolia</i> . <i>Cyanea st.-johnii</i> . <i>Cyanea truncata</i> . <i>Cyrtandra kaulantha</i> . <i>Cyrtandra sessilis</i> . <i>Cyrtandra subumbellata</i> . <i>Cyrtandra viridiflora</i> . <i>Labordia cyrtandrae</i> . <i>Lobelia oahuensis</i> . <i>Lysimachia filifolia</i> . <i>Phlegmarius nutans</i> . <i>Phyllostegia hirsuta</i> . <i>Phyllostegia parviflora</i> . <i>Plantago princeps</i> .
	<i>Cyanea acuminata</i> .....	<i>Psychotria hexandra</i> var. <i>oahuensis</i> . <i>Pteralyxia macrocarpa</i> . <i>Sanicula purpurea</i> . <i>Schiedea kaalae</i> . <i>Tetraplasandra gymnocarpa</i> . <i>Trematolobelia singularis</i> . <i>Viola oahuensis</i> .
	<i>Cyanea calycina</i> .....	
	<i>Cyanea humboldtiana</i> .....	
	<i>Cyanea purpurellifolia</i> .....	
	<i>Cyanea st.-johnii</i> .....	
	<i>Cyrtandra kaulantha</i> .....	
	<i>Cyrtandra sessilis</i> .....	
	<i>Cyrtandra subumbellata</i> .....	
	<i>Cyrtandra viridiflora</i> .....	
	<i>Labordia cyrtandrae</i> .....	
	<i>Lobelia oahuensis</i> .....	
	<i>Lysimachia filifolia</i> .....	
	<i>Phlegmarius nutans</i> .....	
	<i>Phyllostegia hirsuta</i> .....	
	<i>Phyllostegia parviflora</i> .....	
	<i>Plantago princeps</i> .....	
	<i>Pteralyxia macrocarpa</i> .....	
	<i>Sanicula purpurea</i> .....	
	<i>Tetraplasandra gymnocarpa</i> .....	
	<i>Trematolobelia singularis</i> .....	
	<i>Viola oahuensis</i> .....	

(k) \* \* \*

(26) \* \* \*

(ii) Note: The reference to “Hawaii 7—*Pleomele hawaiiensis*—a” on the map is equivalent to “Hawaii 7—*Dracaena konaensis*—a”. Map 26 follows:

\* \* \* \* \*

(51) \* \* \*

(ii) Note: The reference to “Hawaii 10—*Pleomele hawaiiensis*—b” on the map is equivalent to “Hawaii 10—*Dracaena konaensis*—b”. Map 48 follows:

\* \* \* \* \*

(69) \* \* \*

(ii) Note: The reference to “Hawaii 18—*Pleomele hawaiiensis*—c” on the map is equivalent to “Hawaii 18—

*Dracaena konaensis*—c”. Map 69 follows:

\* \* \* \* \*

(74) \* \* \*

(ii) Note: The reference to “Hawaii 23—*Pleomele hawaiiensis*—d” on the map is equivalent to “Hawaii 23—*Dracaena konaensis*—d”. Map 74 follows:

\* \* \* \* \*

(115) \* \* \*

Unit name	Species occupied	Species unoccupied
Hawaii 7— <i>Dracaena konaensis</i> —a .....	<i>Dracaena konaensis</i> .....	<i>Dracaena konaensis</i> .
Hawaii 10— <i>Dracaena konaensis</i> —b .....	<i>Dracaena konaensis</i> .....	<i>Dracaena konaensis</i> .
Hawaii 17— <i>Asplenium dielirectum</i> —a .....	<i>Asplenium dielirectum</i> .....	<i>Asplenium dielirectum</i> .
Hawaii 18— <i>Asplenium dielirectum</i> —b .....	<i>Asplenium dielirectum</i> .....	<i>Asplenium dielirectum</i> .
Hawaii 18— <i>Dracaena konaensis</i> —c .....	<i>Dracaena konaensis</i> .....	<i>Dracaena konaensis</i> .
Hawaii 23— <i>Dracaena konaensis</i> —d .....	<i>Dracaena konaensis</i> .....	<i>Dracaena konaensis</i> .

\* \* \* \* \*  
(1) \* \* \*  
(1) \* \* \*  
\* \* \* \* \*

**Family Liliaceae: *Dracaena Konaensis*  
(Hala Pepe)**

Hawaii 7—*Dracaena konaensis*—a,  
Hawaii 10—*Dracaena konaensis*—b,

Hawaii 18—*Dracaena konaensis*—c,  
and Hawaii 23—*Dracaena konaensis*—  
d, identified in the legal descriptions in  
paragraph (k) of this section, constitute  
critical habitat for *Dracaena konaensis*  
on Hawaii. Within these units, the  
currently known primary constituent  
elements of critical habitat include, but

are not limited to, the habitat  
components provided by: \* \* \*  
\* \* \* \* \*

**Martha Williams,**  
*Director, U.S. Fish and Wildlife Service.*  
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