

SUBCHAPTER B—TAKING, POSSESSION, TRANSPORTATION, SALE, PURCHASE, BARTER, EXPORTATION, AND IMPORTATION OF WILDLIFE AND PLANTS (CONTINUED)

PART 17—ENDANGERED AND THREATENED WILDLIFE AND PLANTS (CONTINUED)

Subpart I—Interagency Cooperation (Continued)

Sec.

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

SOURCE: 40 FR 44415, Sept. 26, 1975. Redesignated at 85 FR 82388, Dec. 18, 2020, and further redesignated at 87 FR 43447, July 21, 2022.

Subpart I—Interagency Cooperation (Continued)

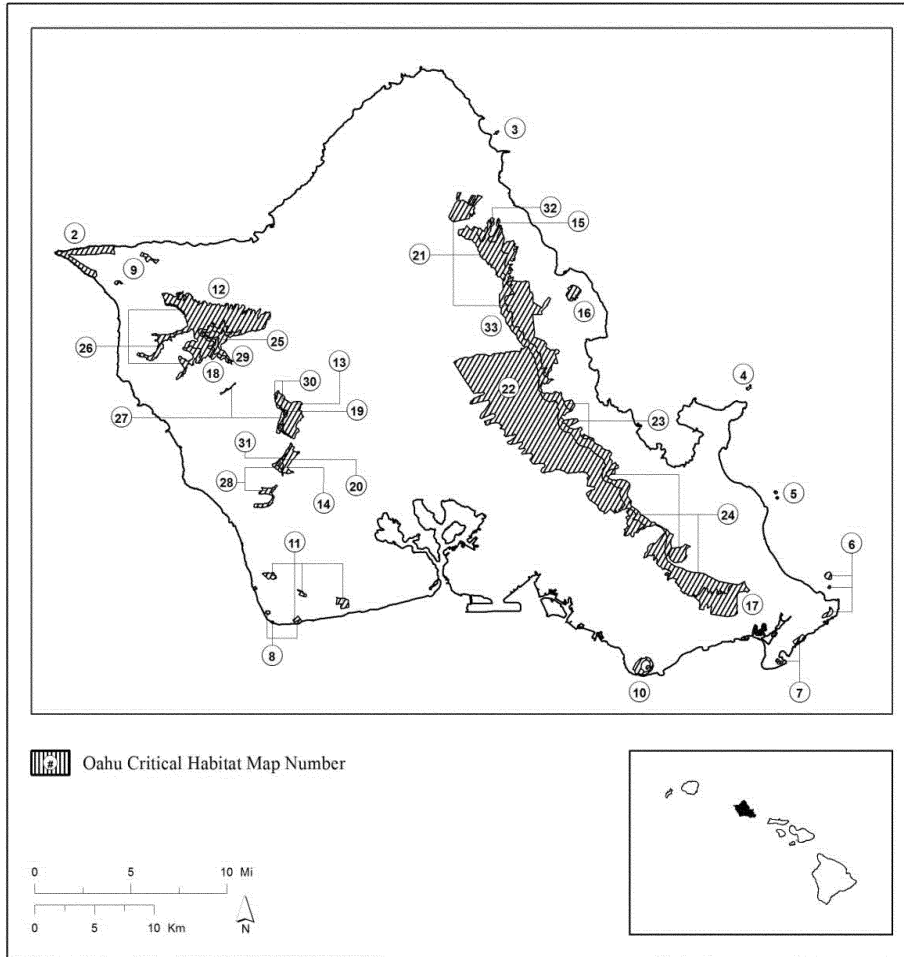
EDITORIAL NOTE: Paragraphs (a)–(h) of §17.99 appear in 50 Part 17, §§17.99(a) to 17.99(h).

§17.99 Critical habitat; plants on the Hawaiian Islands. (Continued)

(i) *Oahu*. Critical habitat units are described below. Maps were created in GIS, with coordinates in UTM Zone 4 with units in meters using North American Datum of 1983 (NAD83). The maps in this entry, as modified by any accompanying regulatory text, establish the boundaries of the critical habitat designation. The coordinates or plot points or both on which each map is based are available to the public at the Service's Internet site, <http://www.fws.gov/pacificislands>; at <http://www.regulations.gov> at Docket No. FWS-R1-ES-2010-0043; and at the field office responsible for the designation. You may obtain field office location information by contacting one of the Service regional offices, the addresses of which are listed at 50 CFR 2.2. Existing manmade features and structures, such as buildings, roads, railroads, airports, runways, other paved areas, lawns, and other urban landscaped areas, existing trails, campgrounds and their immediate surrounding landscaped area, scenic lookouts, remote helicopter landing sites, and existing fences are not included in the critical habitat designation. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species or physical or biological features in adjacent critical habitat.

(1) Map 1—Index map follows:

Map 1
Oahu Critical Habitat–Island Index Map



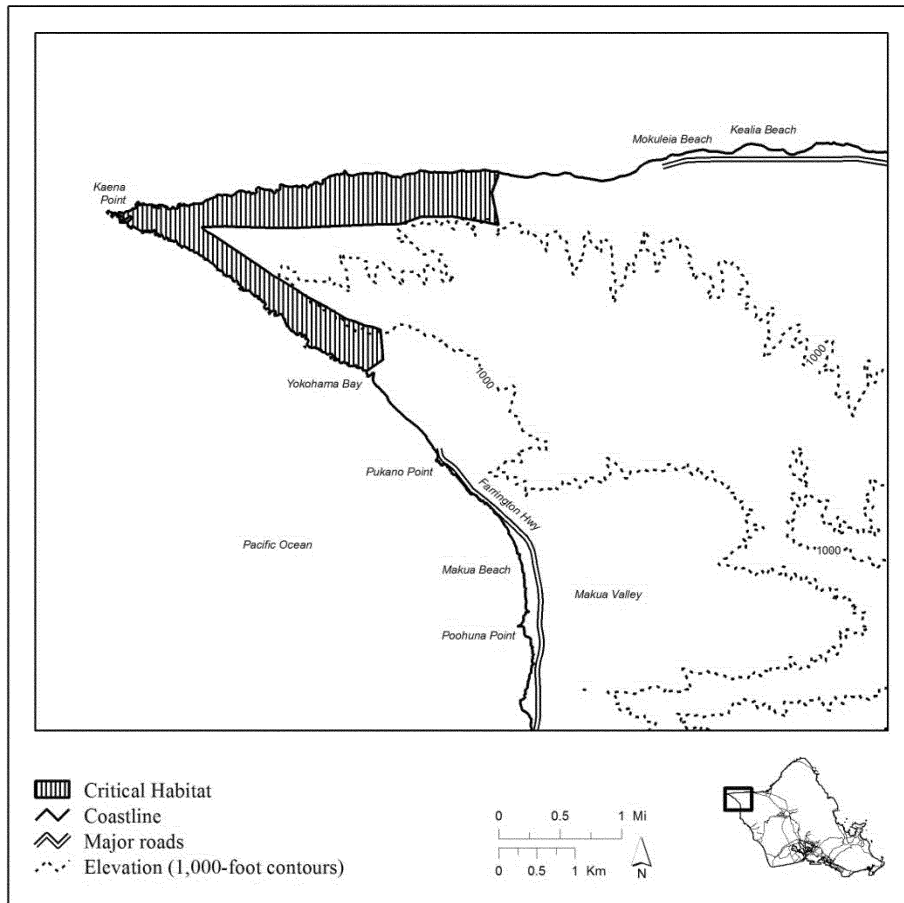
(2) Oahu—Coastal—Unit 1 (958 ac; 388 ha).

(i) This unit is critical habitat for *Achyranthes splendens* var. *rotundata*, *Bidens amplexans*, *Schenkia sebaeoides*,

Chamaesyce celastroides var. *kaenana*, *Schiedea kealiae*, *Sesbania tomentosa*, and *Vigna o-wahuensis*.

(ii) Map of Oahu—Coastal—Unit 1 (Map 2) follows:

**Map 2
Oahu—Coastal
Unit 1**



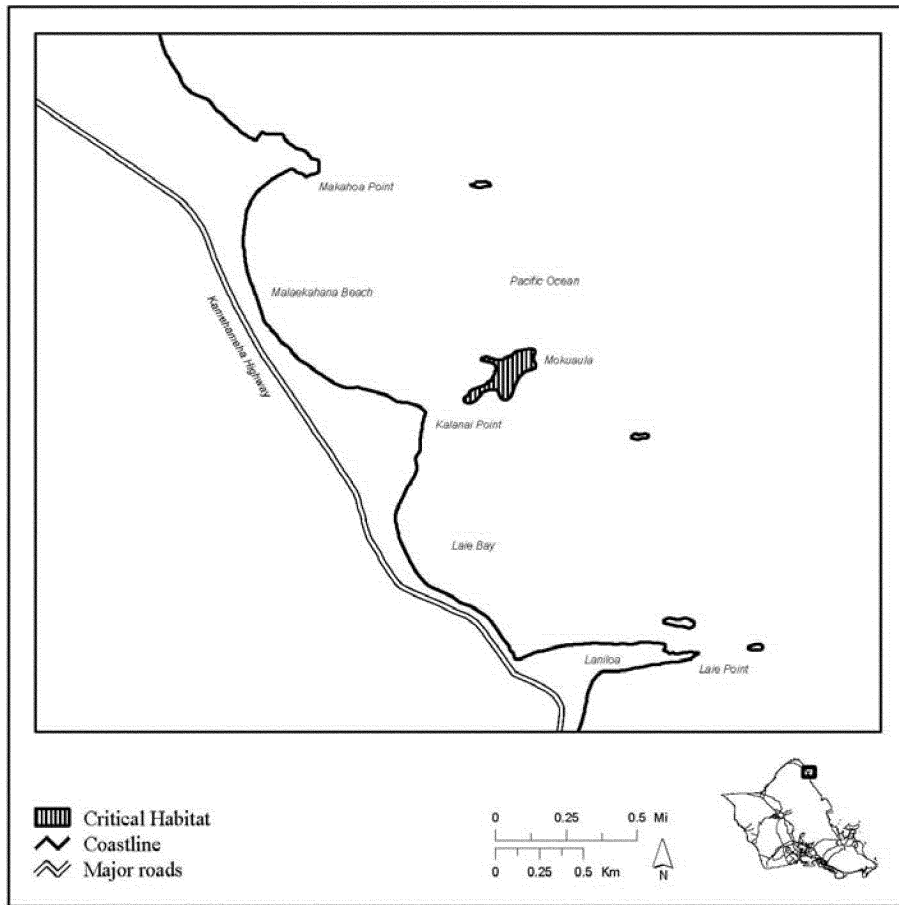
(3) Oahu—Coastal—Unit 2 (12 ac; 5 ha).

(i) This unit is critical habitat for *Schenkia sebaeoides*, *Chamaesyce*

kuwaleana, *Sesbania tomentosa*, and *Vigna o-wahuensis*.

(ii) Map of Oahu—Coastal—Unit 2 (Map 3) follows:

**Map 3
Oahu—Coastal
Unit 2**



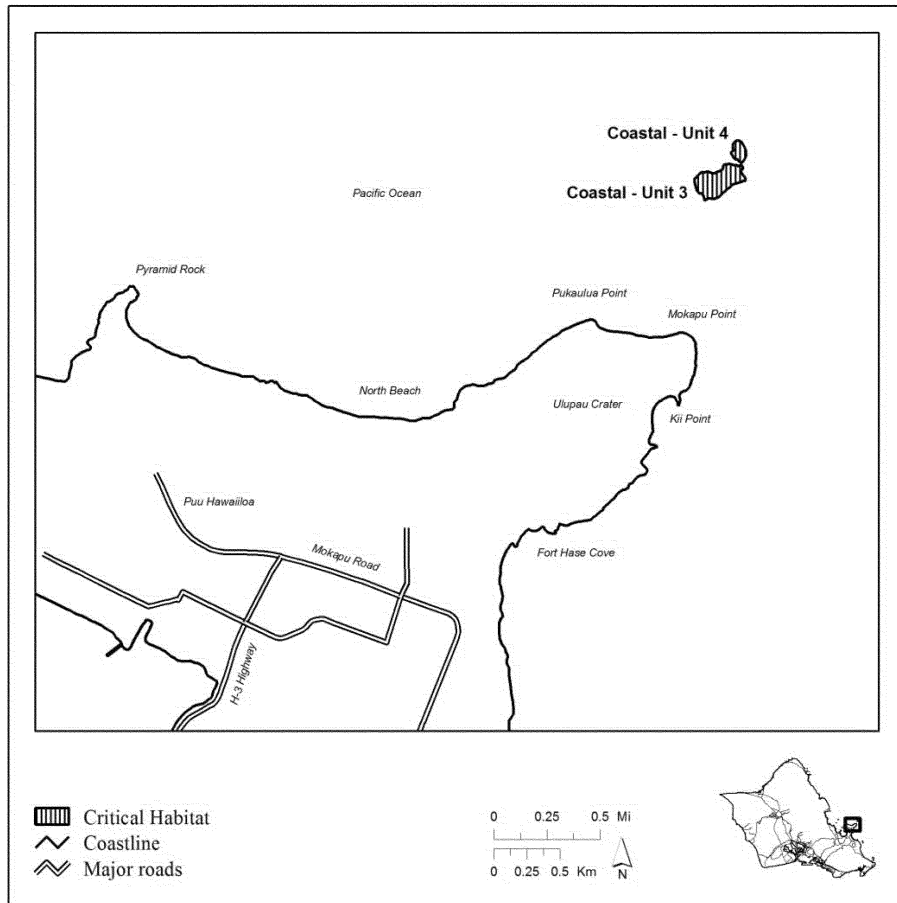
(4) Oahu—Coastal—Unit 3 (15 ac; 6 ha) and Oahu—Coastal—Unit 4 (3 ac; 1 ha).

(i) These units are critical habitat for *Schenkia sebaeoides*, *Chamaesyce*

kuwaleana, *Sesbania tomentosa*, and *Vigna o-wahuensis*.

(ii) Map of Oahu—Coastal—Unit 3 and Oahu—Coastal—Unit 4 (Map 4) follows:

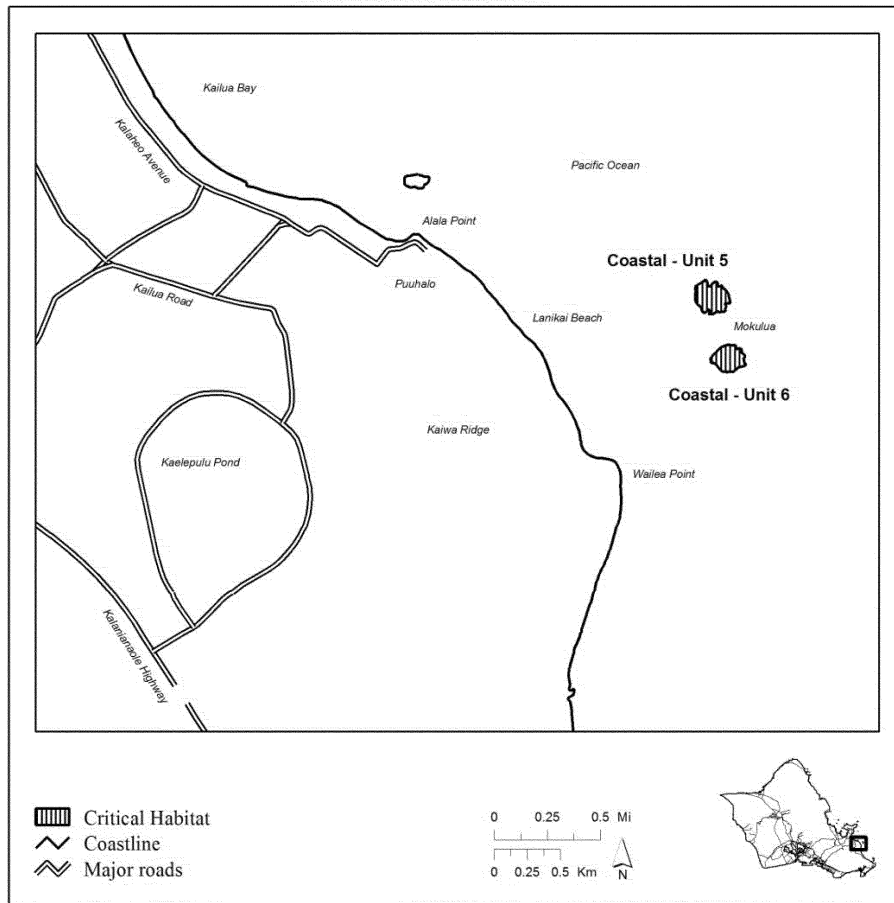
Map 4
Oahu—Coastal Ecosystem
Unit 3 and Unit 4



(5) Oahu—Coastal—Unit 5 (12 ac; 5 ha) and Oahu—Coastal—Unit 6 (9 ac; 4 ha).
 (i) These units are critical habitat for *Schenkia sebaeoides*, *Chamaesyce*

kuwaleana, *Sesbania tomentosa*, and *Vigna o-wahuensis*.
 (ii) Map of Oahu—Coastal—Unit 5 and Oahu—Coastal—Unit 6 (Map 5) follows:

**Map 5
Oahu—Coastal
Unit 5 and Unit 6**



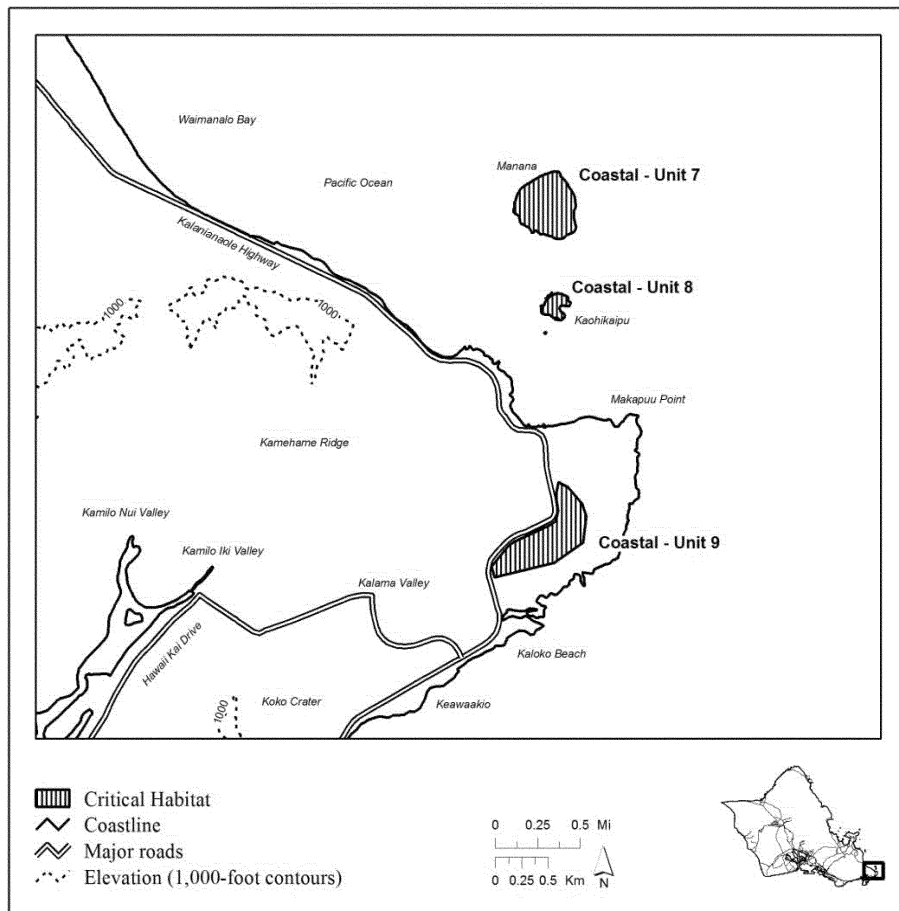
(6) Oahu—Coastal—Unit 7 (67 ac; 27 ha), Oahu—Coastal—Unit 8 (10 ac; 4 ha), and Oahu—Coastal—Unit 9 (80 ac; 33 ha).

(i) These units are critical habitat for, *Schenkia sebaeoides*, *Chamaesyce*

kuwaleana, *Sesbania tomentosa*, and *Vigna o-wahuensis*.

(ii) Map of Oahu—Coastal—Unit 7, Oahu—Coastal—Unit 8, and Oahu—Coastal—Unit 9 (Map 6) follows:

Map 6
Oahu—Coastal
Unit 7, Unit 8 and Unit 9



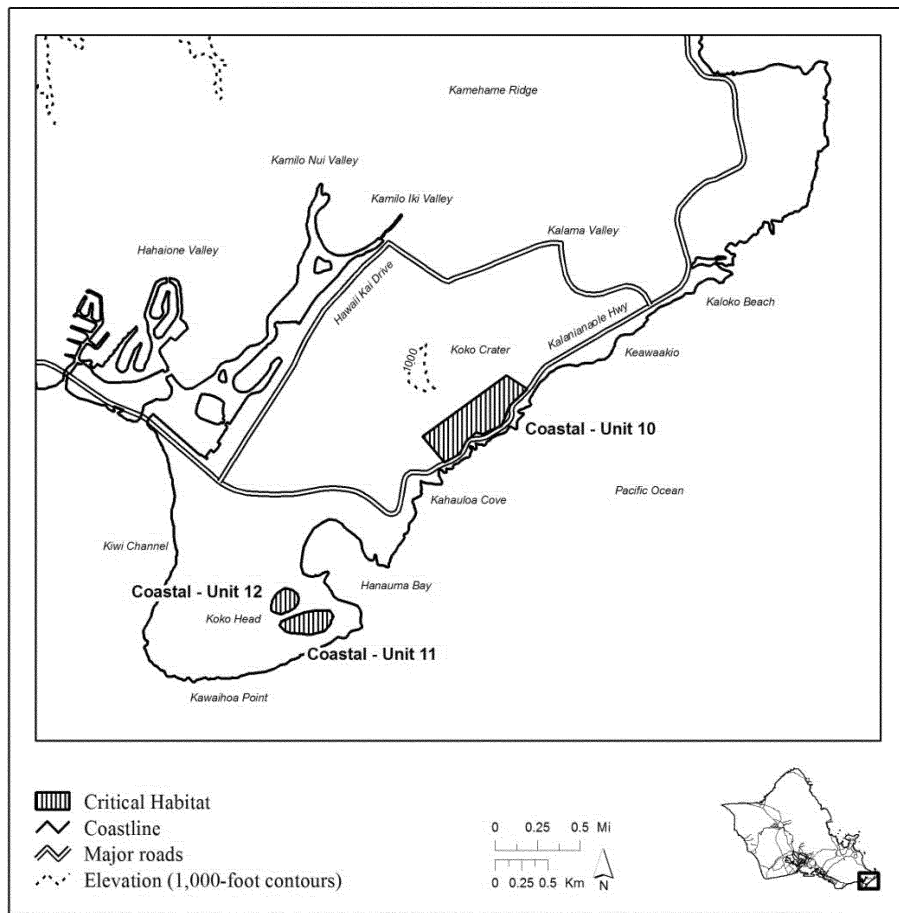
(7) Oahu—Coastal—Unit 10 (74 ac; 30 ha), Oahu—Coastal—Unit 11 (20 ac; 8 ha), and Oahu—Coastal—Unit 12 (11 ac; 5 ha).

(i) Oahu—Coastal—Unit 10 is critical habitat for *Schenkia sebaeoides*, *Chamaesyce kuwaleana*, *Sesbania tomentosa*, and *Vigna o-wahuensis*.

(ii) Oahu—Coastal—Unit 11 and Oahu—Coastal—Unit 12 are critical habitat for *Schenkia sebaeoides*, *Chamaesyce kuwaleana*, *Cyperus trachysanthos*, *Marsilea villosa*, *Sesbania tomentosa*, and *Vigna o-wahuensis*.

(iii) Map of Oahu—Coastal—Unit 10, Oahu—Coastal—Unit 11, and Oahu—Coastal—Unit 12 (Map 7) follows:

Map 7
Oahu-Coastal
Unit 10, Unit 11 and Unit 12



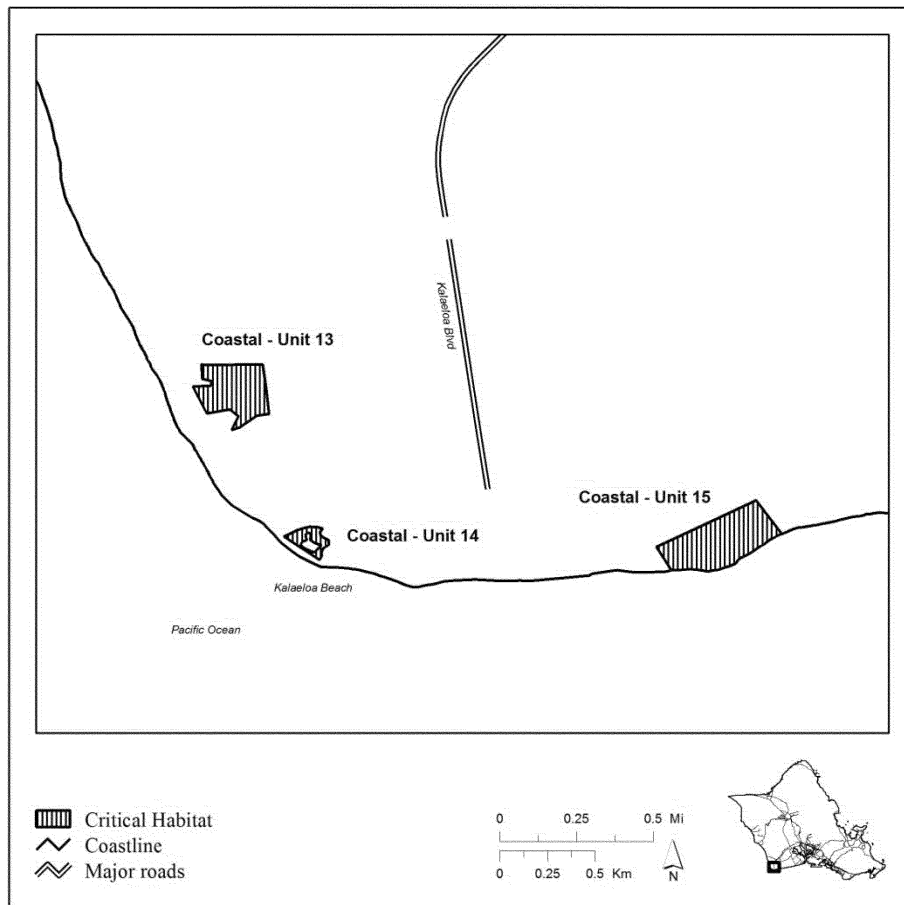
(8) Oahu-Coastal-Unit 13 (23 ac; 10 ha), Oahu-Coastal-Unit 14 (4 ac; 2 ha), and Oahu-Coastal-Unit 15 (33 ac; 13 ha).

(i) These units are critical habitat for *Achyranthes splendens* var. *rotundata*, *Bidens amplexans*, *Schenkia sebaeoides*,

Chamaesyce celastroides var. *kaenana*, *Schiedea kealiae*, *Sesbania tomentosa*, and *Vigna o-wahuensis*.

(ii) Map of Oahu-Coastal-Unit 13, Oahu-Coastal-Unit 14, and Oahu-Coastal-Unit 15 (Map 8) follows:

Map 8
Oahu—Coastal
Unit 13, Unit 14 and Unit 15



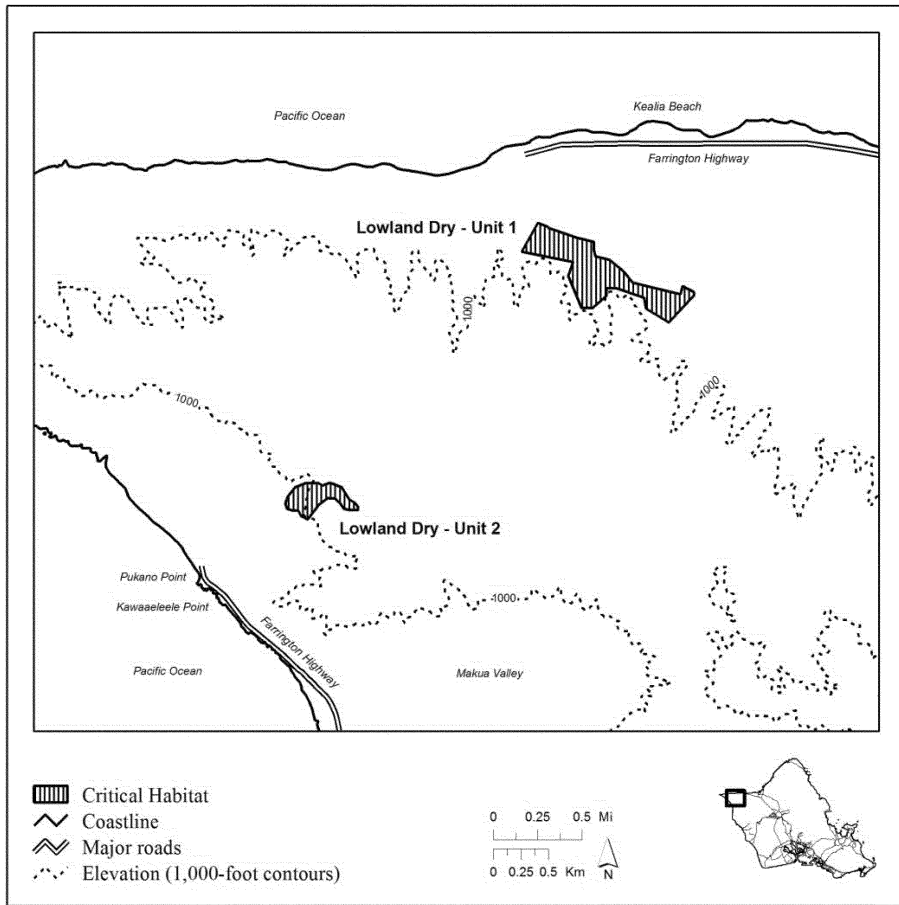
(9) Oahu—Lowland Dry—Unit 1 (102 ac; 41 ha) and Oahu—Lowland Dry—Unit 2 (29 ac; 12).

(i) These units are critical habitat for *Achyranthes splendens* var. *rotundata*, *Bidens amplexans*, *Bonamia menziesii*, *Chamaesyce celastroides* var. *kaenana*, *Dracaena forbesii*, *Euphorbia haeleleana*, *Gouania meyenii*, *Gouania*

vitifolia, *Hibiscus brackenridgei*, *Isodendron pyriformum*, *Melanthera tenuifolia*, *Neraudia angulata*, *Nototrichium humile*, *Schiedea hookeri*, *Schiedea kealiae*, and *Spermolepis hawaiiensis*.

(ii) Map of Oahu—Lowland Dry—Unit 1 and Oahu—Lowland Dry—Unit 2 (Map 9) follows:

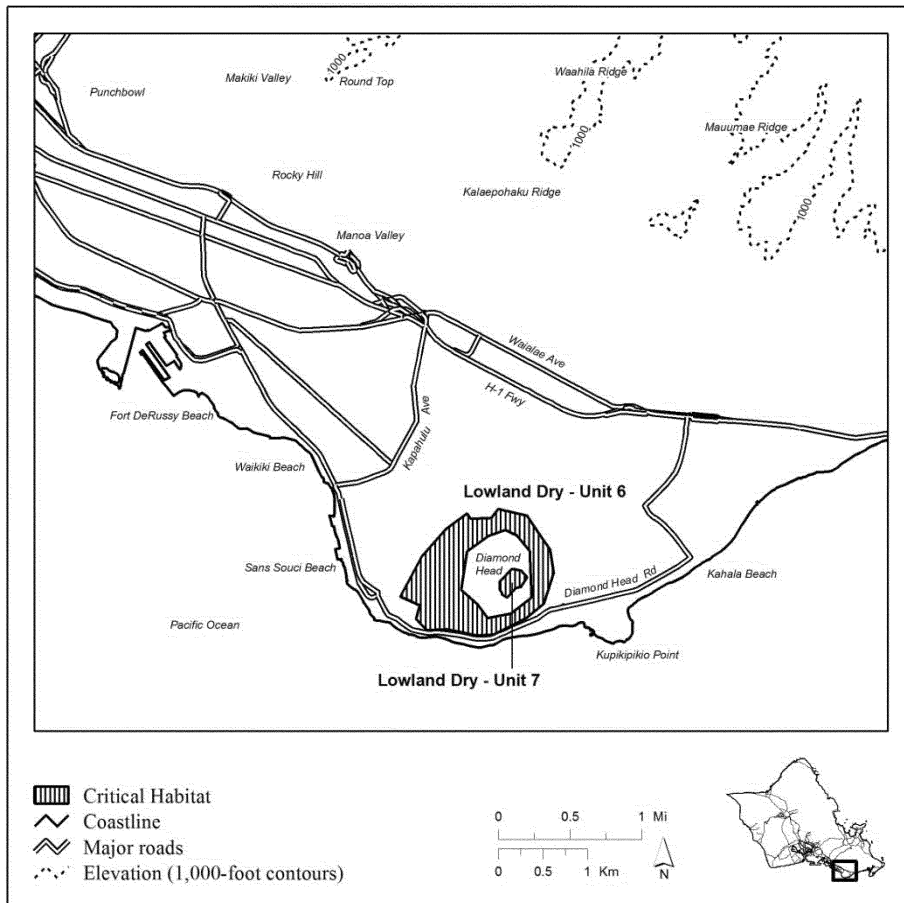
Map 9
Oahu—Lowland Dry
Unit 1 and Unit 2



(10) [Reserved]
 (11) Oahu—Lowland Dry—Unit 6 (287 ac; 116 ha) and Oahu—Lowland Dry—Unit 7 (15 ac; 6 ha).
 (i) Oahu—Lowland Dry—Unit 6 is critical habitat for *Doryopteris takeuchii*, *Gouania meyenii*, and *Spermolepis hawaiiensis*.

(ii) Oahu—Lowland Dry—Unit 7 is critical habitat for *Cyperus trachysanthos*, *Doryopteris takeuchii*, *Gouania meyenii*, *Marsilea villosa*, and *Spermolepis hawaiiensis*.
 (iii) Map of Oahu—Lowland Dry—Unit 6 and Oahu—Lowland Dry—Unit 7 (Map 10) follows:

Map 10
Oahu—Lowland Dry
Unit 6 and Unit 7



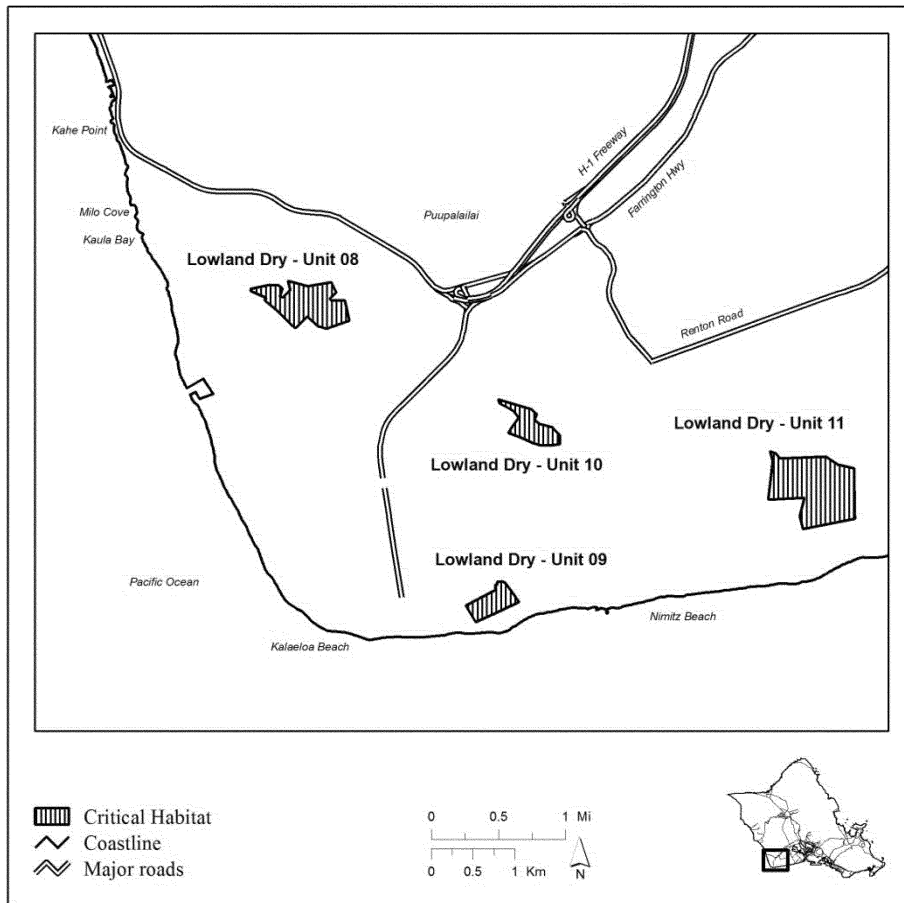
(12) Oahu—Lowland Dry—Unit 8 (99 ac; 40 ha), Oahu—Lowland Dry—Unit 9 (37 ac; 15 ha), Oahu—Lowland Dry—Unit 10 (43 ac; 17 ha), and Oahu—Lowland Dry—Unit 11 (166 ac; 67 ha).

(i) These units are critical habitat for *Achyranthes splendens* var. *rotundata*, *Bidens amplexans*, *Bonamia menziesii*, *Chamaesyce celastroides* var. *kaenana*, *Euphorbia haeleleana*, *Euphorbia skottsbergii* var. *skottsbergii*, *Gouania*

meyenii, *Gouania vitifolia*, *Hibiscus brackenridgei*, *Isodendron pyrifolium*, *Melanthera tenuifolia*, *Neraudia angulata*, *Nototrichium humile*, *Schiedea hookeri*, *Schiedea kealiae*, and *Spermolepis hawaiiensis*.

(ii) Map of Oahu—Lowland Dry—Unit 8, Oahu—Lowland Dry—Unit 9, Oahu—Lowland Dry—Unit 10, and Oahu—Lowland Dry—Unit 11 (Map 11) follows:

Map 11
Oahu—Lowland Dry
Unit 8, Unit 9, Unit 10 and Unit 11



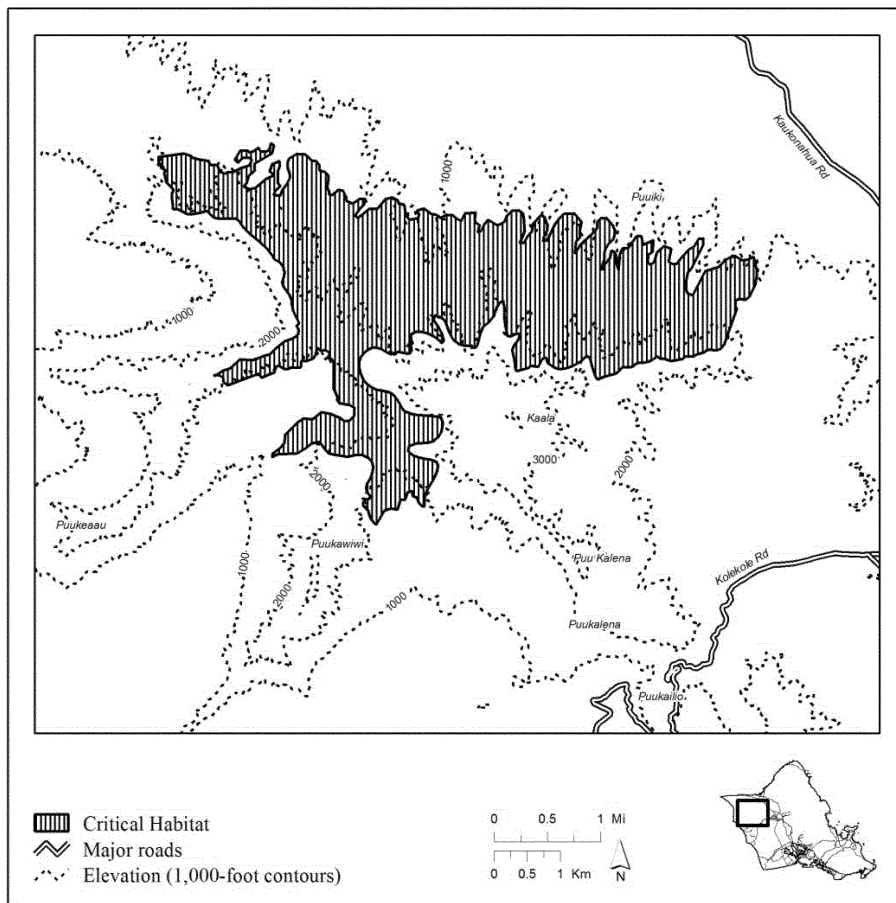
(13) Oahu—Lowland Mesic—Unit 1 (4,448 ac; 1,800 ha).

(i) This unit is critical habitat for *Abutilon sandwicense*, *Alectryon macrococcus*, *Asplenium dielfalcatum*, *Bonamia menziesii*, *Cenchrus agrimonioides*, *Chamaesyce celastroides* var. *kaenana*, *Chamaesyce herbstii*, *Colubrina oppositifolia*, *Ctenitis squamigera*, *Cyanea acuminata*, *Cyanea calycina*, *Cyanea grimesiana* ssp. *grimesiana*, *Cyanea grimesiana* ssp. *obatae*, *Cyanea longiflora*, *Cyanea*

pinnatifida, *Cyanea superba*, *Cyperus pennatififormis*, *Cyrtandra dentata*, *Delissea subcordata*, *Diellia unisora*, *Diplazium molokaiense*, *Dracaena forbesii*, *Dubautia herbstobatae*, *Eragrostis fosbergii*, *Eugenia koolauensis*, *Euphorbia haeleleana*, *Flueggea neowawraea*, *Gardenia mannii*, *Gouania meyenii*, *Gouania vitifolia*, *Hesperomannia arborescens*, *Hesperomannia arbuscula*, *Hibiscus brackenridgei*, *Isodendron laurifolium*, *Isodendron longifolium*, *Kadua coriacea*,

Kadua degeneri, *Kadua parvula*, *Pteralyxia macrocarpa*, *Sanicula mariversa*, *Schiedea hookeri*, *Schiedea kaalae*, *Schiedea nuttallii*, *Schiedea obovata*, *Silene perlmanni*, *Solanum sandwicense*, *Stenogyne kanehoana*, *Tetramolopium lepidotum* ssp. *lepidotum*, *Urena kaalae*, and *Viola chamissoniana*. Map of Oahu—Lowland Mesic—Unit 1 (Map 12) follows:

Map 12
Oahu—Lowland Mesic
Unit 1



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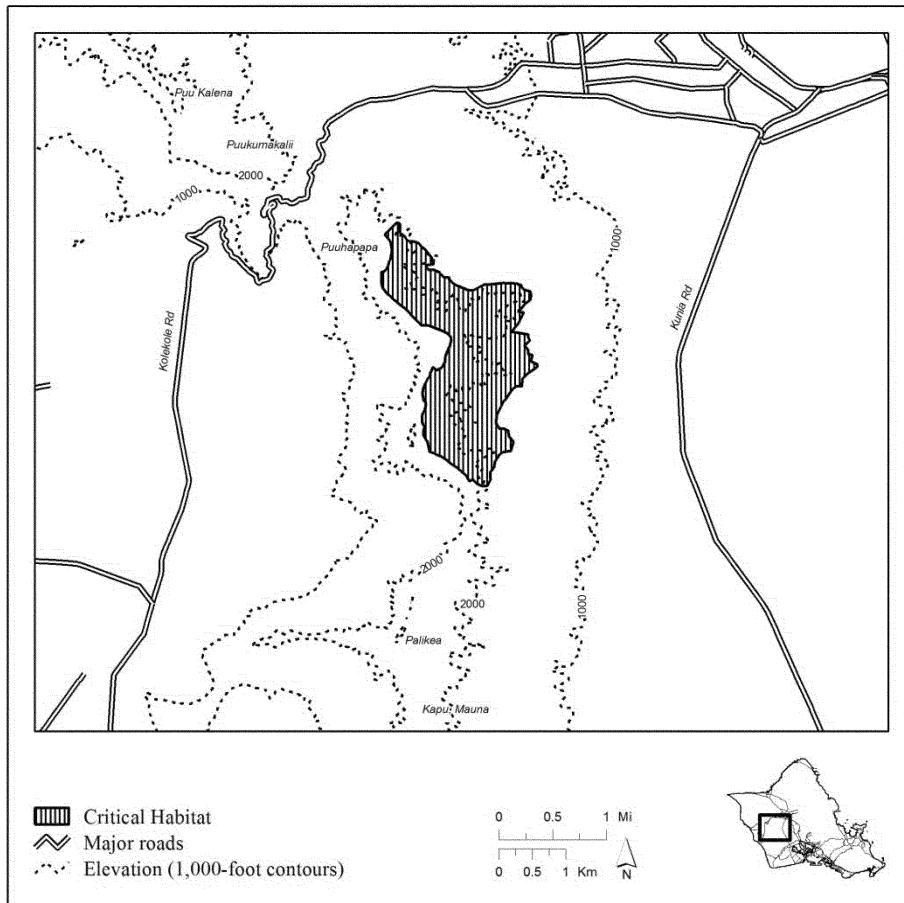
(14) Oahu—Lowland Mesic—Unit 2 (1,063 ac; 430 ha).

(i) This unit is critical habitat for *Abutilon sandwicense*, *Alectryon macrococcus*, *Asplenium dielfalcatum*, *Bonamia menziesii*, *Cenchrus agrimonoides*, *Chamaesyce celastroides* var. *kaenana*, *Chamaesyce herbstii*, *Colubrina oppositifolia*, *Ctenitis squamigera*, *Cyanea acuminata*, *Cyanea calycina*, *Cyanea grimesiana* ssp. *grimesiana*, *Cyanea grimesiana* ssp. *obatae*, *Cyanea longiflora*, *Cyanea pinnatifida*, *Cyanea superba*, *Cyperus pennatifidus*, *Cyrtandra dentata*, *Delissea subcordata*, *Diellia unisora*, *Diplazium molokaiense*, *Dracaena forbesii*, *Dubautia herbstobatae*, *Eragrostis fosbergii*, *Eugenia koolauensis*, *Euphorbia haeleleana*, *Flueggea neowawraea*, *Gardenia mannii*, *Gouania meyenii*, *Gouania vitifolia*, *Hesperomannia* *arborescens*,

Hesperomannia arbuscula, *Hibiscus brackenridgei*, *Isodendron laurifolium*, *Isodendron longifolium*, *Kadua coriacea*, *Kadua degeneri*, *Kadua parvula*, *Labordia cyrtandrae*, *Lobelia niihauensis*, *Melanthera tenuifolia*, *Melicope cornuta* var. *decurrens*, *Melicope makahae*, *Melicope pallida*, *Melicope saint-johnii*, *Neraudia angulata*, *Nototrichium humile*, *Phyllostegia hirsuta*, *Phyllostegia kaalaensis*, *Phyllostegia mollis*, *Phyllostegia parviflora* var. *lydgatei*, *Plantago princeps* var. *princeps*, *Pteralyxia macrocarpa*, *Sanicula mariversa*, *Schiedea hookeri*, *Schiedea kaalae*, *Schiedea nuttallii*, *Schiedea obovata*, *Silene perlmannii*, *Solanum sandwicense*, *Stenogyne kanehoana*, *Tetramolopium lepidotum* ssp. *lepidotum*, *Urera kaalae*, and *Viola chamissoniana* ssp. *chamissoniana*.

(ii) Map of Oahu—Lowland Mesic—Unit 2 (Map 13) follows:

Map 13
Oahu—Lowland Mesic
Unit 2



(15) Oahu—Lowland Mesic—Unit 3 (353 ac; 143 ha).

(i) This unit is critical habitat for *Abutilon sandwicense*, *Alectryon macrococcus*, *Asplenium dielfalcatum*, *Bonamia menziesii*, *Cenchrus agrimonioides*, *Chamaesyce celastroides* var. *kaenana*, *Chamaesyce herbstii*, *Colubrina oppositifolia*, *Ctenitis squamigera*, *Cyanea acuminata*, *Cyanea calycina*, *Cyanea grimesiana* ssp. *grimesiana*, *Cyanea grimesiana* ssp. *obatae*, *Cyanea longiflora*, *Cyanea*

pinnatifida, *Cyanea superba*, *Cyperus pennatififormis*, *Cyrtandra dentata*, *Delissea subcordata*, *Diellia unisora*, *Diplazium molokaiense*, *Dracaena forbesii*, *Dubautia herbstobatae*, *Eragrostis fosbergii*, *Eugenia koolauensis*, *Euphorbia haeleleana*, *Flueggea neowawraea*, *Gardenia mannii*, *Gouania meyenii*, *Gouania vitifolia*, *Hesperomannia arborescens*, *Hesperomannia arbuscula*, *Hibiscus brackenridgei*, *Isodendrion longifolium*, *Kadua coriacea*, *Kadua degeneri*, *Kadua*

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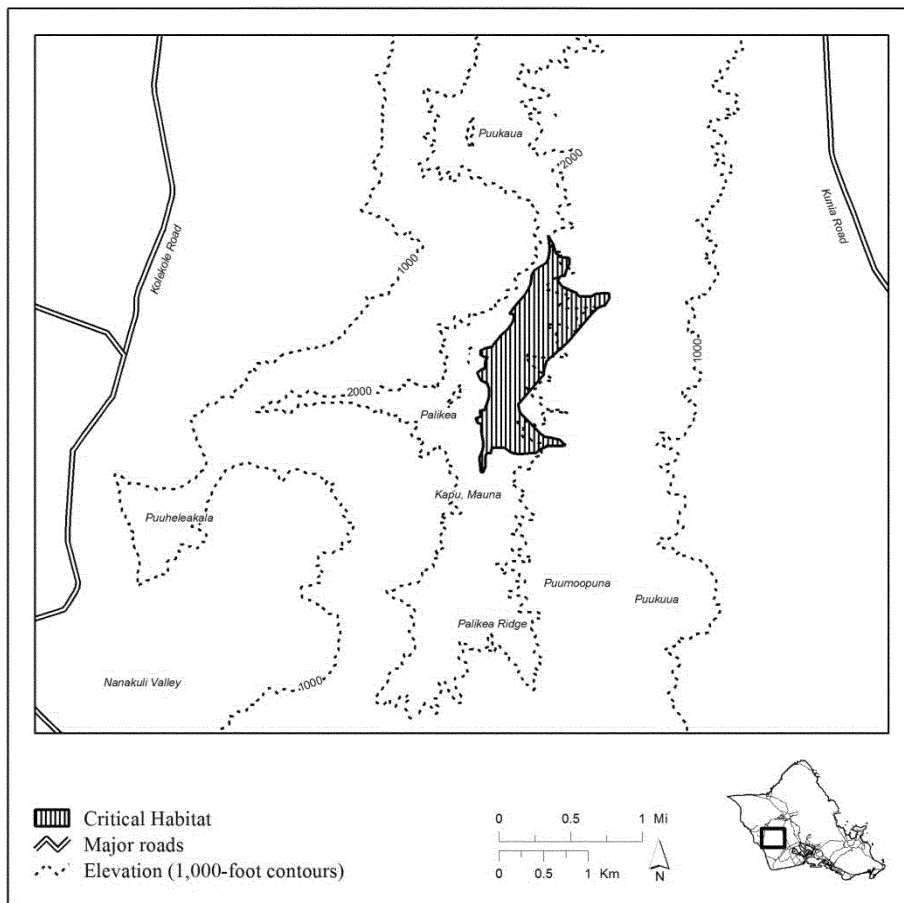
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parvula, *Labordia cyrtandrae*, *Lobelia niihauensis*, *Melanthera tenuifolia*, *Melicope cornuta* var. *decurrens*, *Melicope makahae*, *Melicope pallida*, *Melicope saint-johnii*, *Neraudia angulata*, *Nototrichium humile*, *Phyllostegia hirsuta*, *Phyllostegia kaalaensis*, *Phyllostegia mollis*, *Phyllostegia parviflora* var. *lydgatei*, *Plantago princeps* var. *princeps*, , *Pteralyxia*

macrocarpa, *Sanicula mariversa*, *Schiedea hookeri*, *Schiedea kaalae*, *Schiedea nuttallii*, *Schiedea obovata*, *Silene perlmanni*, *Solanum sandwicense*, *Stenogyne kanehoana*, *Tetramolopium lepidotum* ssp. *lepidotum*, *Urena kaalae*, and *Viola chamissoniana* ssp. *chamissoniana*.

(ii) Map of Oahu—Lowland Mesic—Unit 3 (Map 14) follows:

Map 14
Oahu—Lowland Mesic
Unit 3



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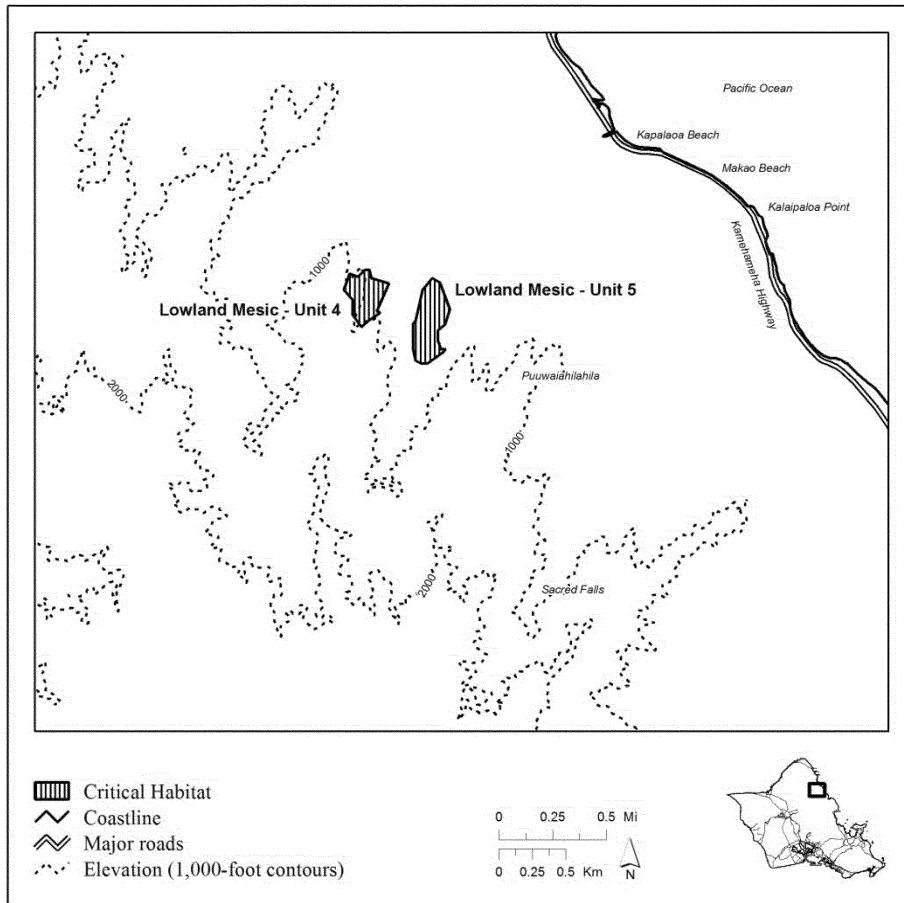
(16) Oahu—Lowland Mesic—Unit 4 (20 ac; 8 ha) and Oahu—Lowland Mesic—Unit 5 (29 ac; 12 ha).

(i) These units are critical habitat for *Alectryon macrococcus*, *Asplenium dielirectum*, *Asplenium dielfalcatum*, *Bonamia menziesii*, *Chamaesyce celastroides* var. *kaenana*, *Ctenitis squamigera*, *Cyanea acuminata*, *Cyanea calycina*, *Cyanea crista*, *Cyanea grimesiana* ssp. *grimesiana*, *Cyanea lanceolata*, *Cyanea longiflora*, *Cyanea truncata*, *Cyrtandra dentata*, *Cyrtandra polyantha*, *Delissea subcordata*, *Dracaena forbesii*, *Eugenia koolauensis*, *Gardenia*

mannii, *Hesperomannia arborescens*, *Isodendrion laurifolium*, *Isodendrion longifolium*, *Kadua coriacea*, *Labordia cyrtandrae*, *Lobelia monostachya*, *Melicope lydgatei*, *Melicope saint-johnii*, *Phyllostegia hirsuta*, *Phyllostegia mollis*, *Phyllostegia parviflora* var. *parviflora*, *Plantago princeps* var. *princeps*, *Pteralyxia macrocarpa*, *Schiedea kaalae*, *Schiedea nuttallii*, *Solanum sandwicense*, *Tetraplasandra gymnocarpa*, and *Tetraplasandra lydgatei*.

(ii) Map of Oahu—Lowland Mesic—Unit 4 and Oahu—Lowland Mesic—Unit 5 (Map 15) follows:

Map 15
Oahu—Lowland Mesic
Unit 4 and Unit 5



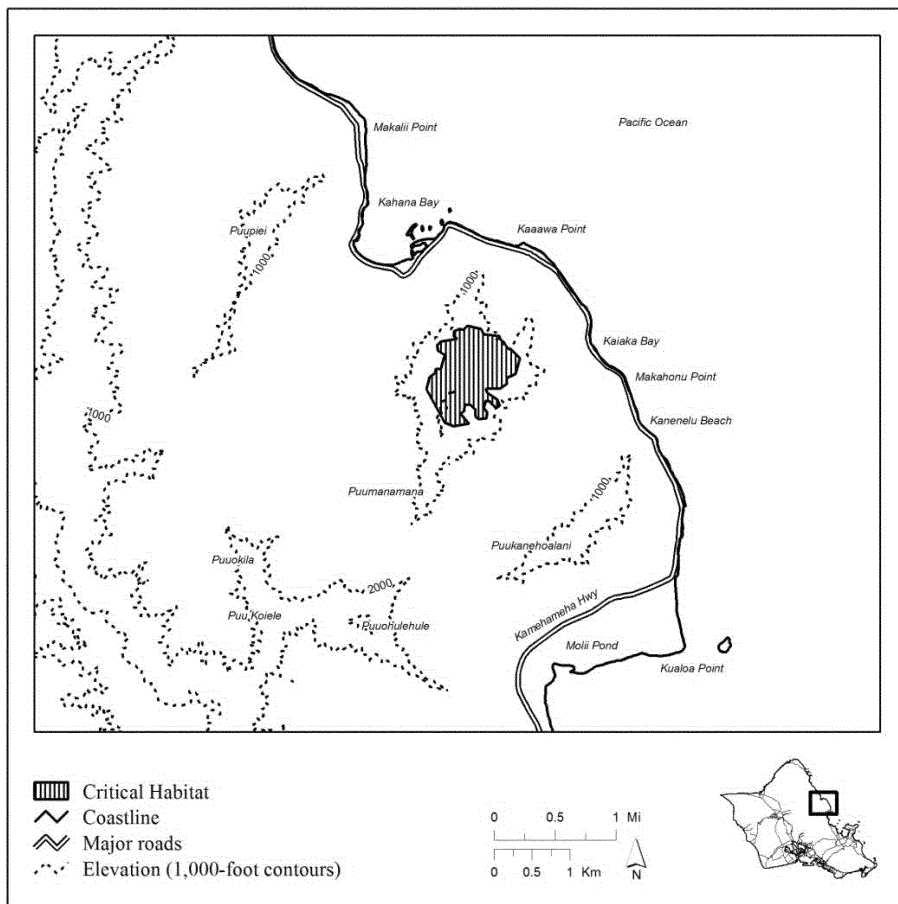
(17) Oahu—Lowland Mesic—Unit 6 (247 ac; 100 ha).

(i) This unit is critical habitat for *Alectryon macrococcus*, *Asplenium dielirectum*, *Asplenium dielfalcatum*, *Bonamia menziesii*, *Chamaesyce celastroides* var. *kaenana*, *Ctenitis squamigera*, *Cyanea acuminata*, *Cyanea calycina*, *Cyanea crista*, *Cyanea grimesiana* ssp. *grimesiana*, *Cyanea lanceolata*, *Cyanea longiflora*, *Cyrtandra truncata*, *Cyrtandra dentata*, *Cyrtandra polyantha*, *Delissea subcordata*, *Dracaena*

forbesii, *Eugenia koolauensis*, *Gardenia mannii*, *Hesperomannia arborescens*, *Isodendron laurifolium*, *Isodendron longifolium*, *Kadua coriacea*, *Labordia cyrtandrae*, *Lobelia monostachya*, *Melicope lydgatei*, *Melicope saint-johnii*, *Phyllostegia hirsuta*, *Phyllostegia parviflora* var. *parviflora*, *Plantago princeps* var. *princeps*, *Pteralyria macrocarpa*, *Schiedea kaalae*, *Schiedea nuttallii*, *Solanum sandwicense*, *Tetraplasandra gymnocarpa*, and *Tetraplasandra lydgatei*.

(ii) Map of Oahu—Lowland Mesic—Unit 6 (Map 16) follows:

Map 16
Oahu—Lowland Mesic
Unit 6



(18) Oahu—Lowland Mesic—Unit 7 (1,669 ac; 676 ha).

(i) This unit is critical habitat for *Alectryon macrococcus*, *Asplenium dielerectum*, *Asplenium dielfalcatum*, *Bonamia menziesii*, *Chamaesyce celastroides* var. *kaenana*, *Ctenitis squamigera*, *Cyanea acuminata*, *Cyanea calycina*, *Cyanea crista*, *Cyanea*

grimesiana ssp. *grimesiana*, *Cyanea lanceolata*, *Cyanea longiflora*, *Cyanea truncata*, *Cyrtandra dentata*, *Cyrtandra polyantha*, *Delissea subcordata*, *Dracaena forbesii*, *Eugenia koolauensis*, *Gardenia mannii*, *Hesperomannia arborescens*, *Isodendron laurifolium*, *Isodendron longifolium*, *Kadua coriacea*, *Labordia cyrtandrae*, *Lobelia monostachya*,

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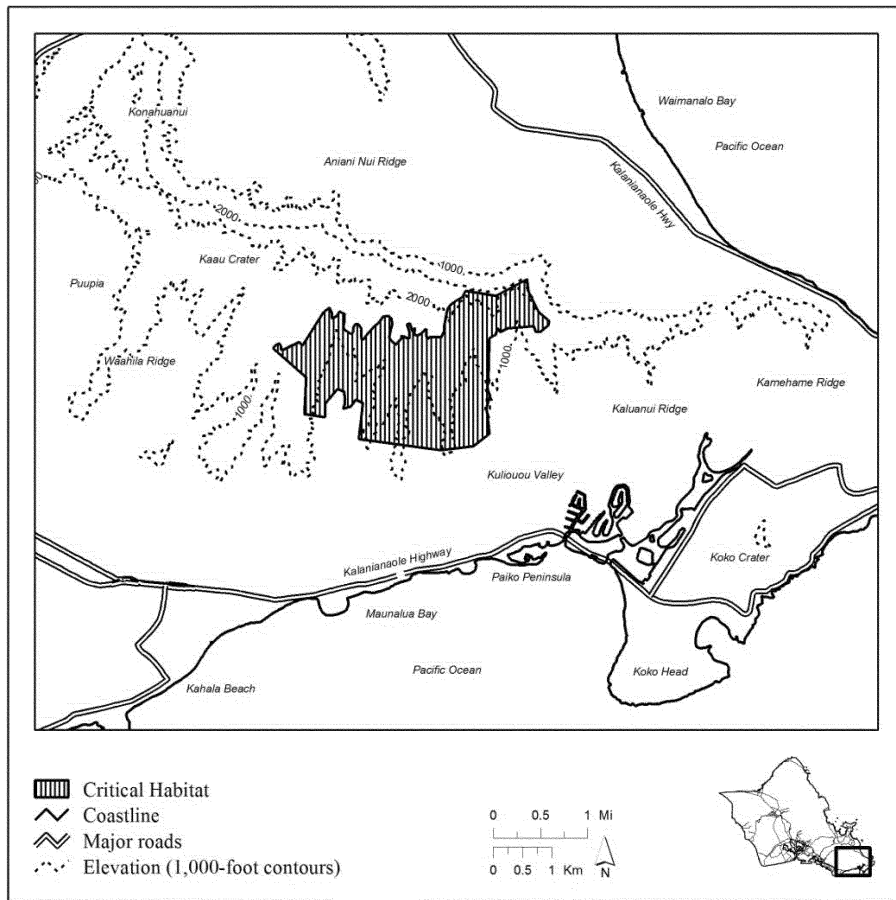
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Melicope lydgatei, *Melicope saint-johnii*,
Phyllostegia hirsuta, *Phyllostegia mollis*,
Phyllostegia parviflora var. *parviflora*,
Plantago princeps var. *princeps*,
Pteralyxia macrocarpa, *Schiedea kaalae*,

Schiedea nuttallii, *Solanum sandwicense*,
Tetraplasandra gymnocarpa, and
Tetraplasandra lydgatei.

(ii) Map of Oahu—Lowland Mesic—
 Unit 7 (Map 17) follows:

Map 17
Oahu—Lowland Mesic
Unit 7



(19) Oahu—Lowland Wet—Unit 1 (541
 ac; 219 ha).

(i) This unit is critical habitat for
Cyanea acuminata, *Cyanea calycina*,
Cyanea grimesiana ssp. *grimesiana*,
Cyanea grimesiana ssp. *obatae*,

Cyrtandra dentata, *Diplazium*
molokaiense, *Gardenia mannii*, *Gouania*
vitifolia, *Hesperomannia arbuscula*,
Isodendron longifolium, *Labordia*
cyrtandrae, *Lobelia oahuensis*,
Phyllostegia hirsuta, *Phyllostegia mollis*,

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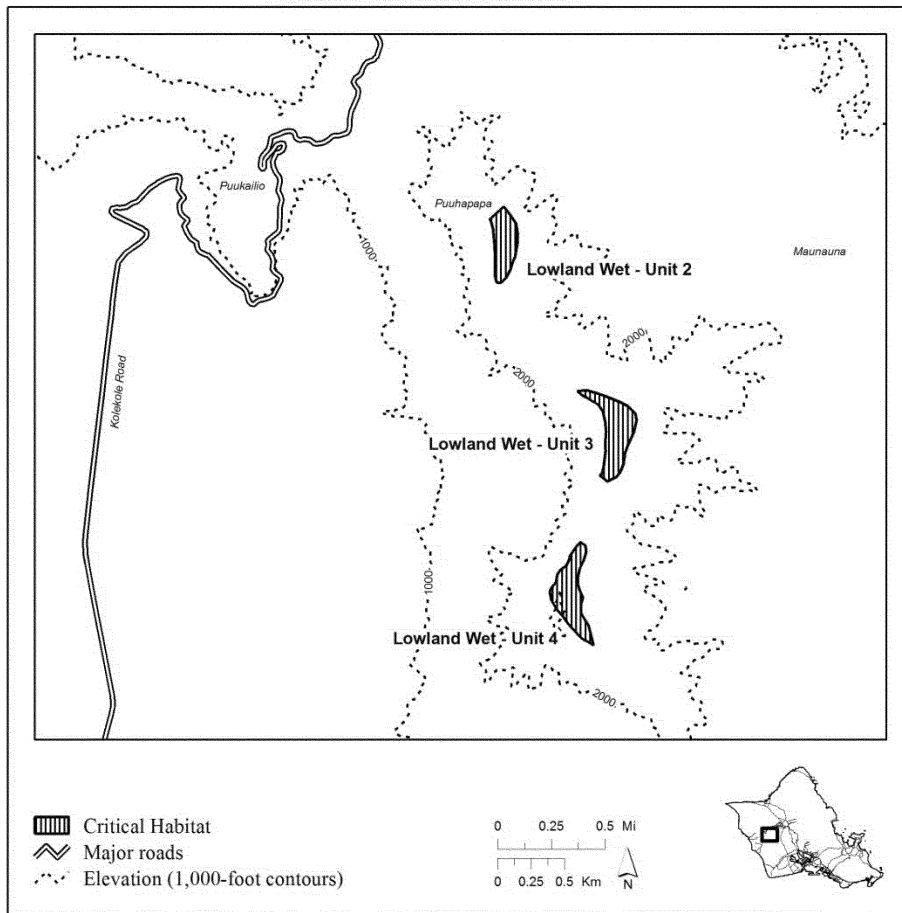
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Pteralyxia macrocarpa, *Schiedea hookeri*,
Schiedea kaalae, and *Ureva kaalae*.

Oahu—Lowland Wet—Unit 4 (Map 19)
follows:

(ii) Map of Oahu—Lowland Wet—Unit
2, Oahu—Lowland Wet—Unit 3, and

Map 19
Oahu—Lowland Wet
Unit 2, Unit 3 and Unit 4



(21) Oahu—Lowland Wet—Unit 5 (74
ac; 30 ha).

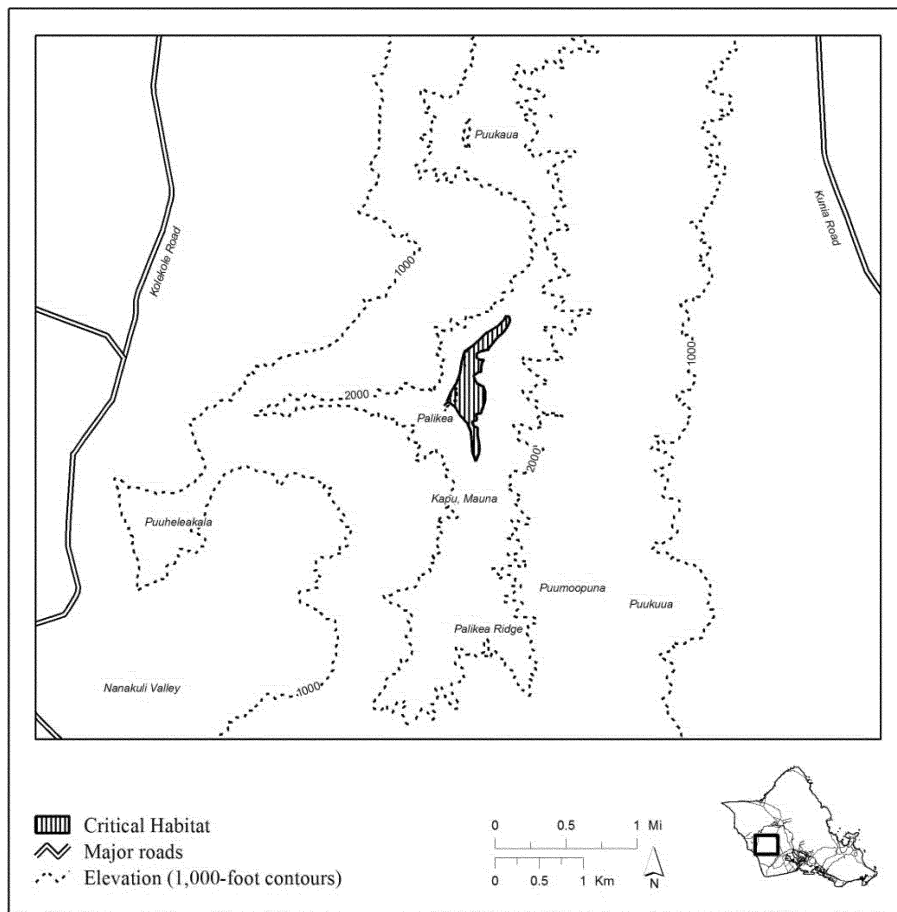
(i) This unit is critical habitat for
Cyanea acuminata, *Cyanea calycina*,
Cyanea grimesiana ssp. *grimesiana*,
Cyanea grimesiana ssp. *obatae*,
Cyrtandra dentata, *Diplazium*

molokaiense, *Gardenia mannii*, *Gouania*
vitifolia, *Hesperomannia arbuscula*,
Isodendron longifolium, *Labordia*
cyrtandrae, *Lobelia oahuensis*,
Phyllostegia hirsuta, *Phyllostegia mollis*,
Plantago princeps var. *princeps*,

Pteralyxia macrocarpa, *Schiedea hookeri*,
Schiedea kaalae, and *Urera kaalae*.

(ii) Map of Oahu—Lowland Wet—Unit 5 (Map 20) follows:

Map 20
Oahu—Lowland Wet
Unit 5



(22) Oahu—Lowland Wet—Unit 6 (790 ac; 320 ha), Oahu—Lowland Wet—Unit 7 (1,787 ac; 723 ha), and Oahu—Lowland Wet—Unit 8 (3,041 ac; 1,231 ha).

(i) These units are critical habitat for *Adenophorus periens*, *Chamaesyce rockii*, *Cyanea acuminata*, *Cyanea calycina*, *Cyanea crispa*, *Cyanea grimesiana* ssp. *grimesiana*, *Cyanea humboldtiana*,

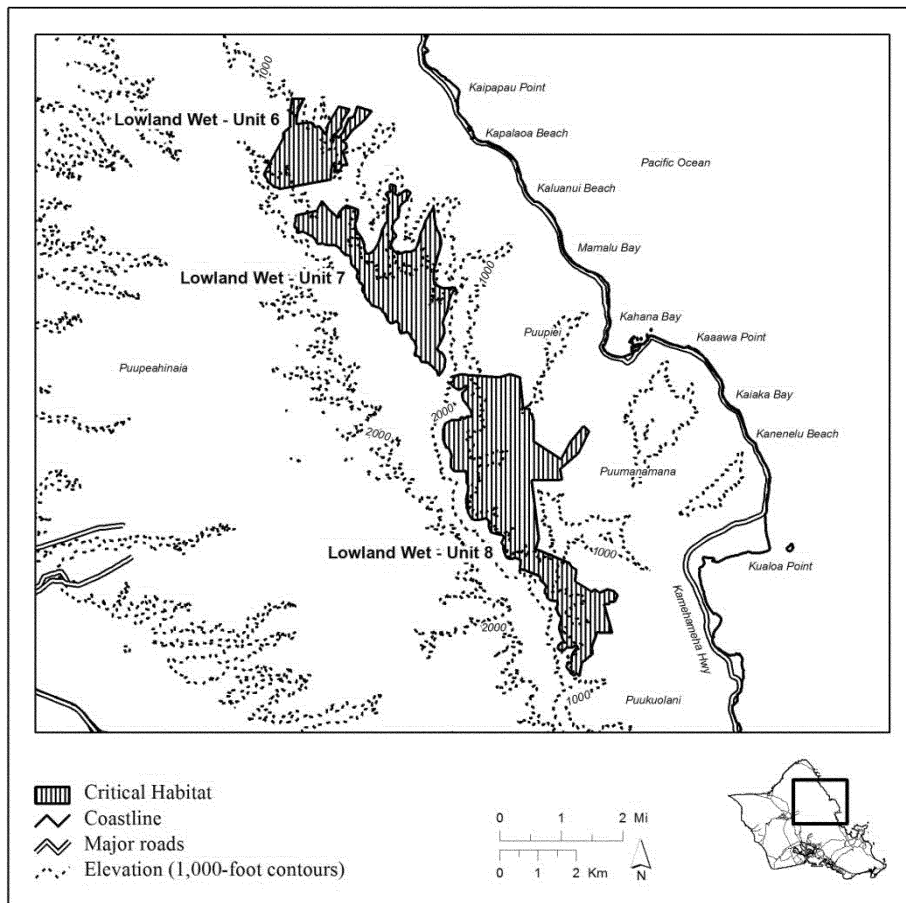
Cyanea koolauensis, *Cyanea lanceolata*, *Cyanea purpurellifolia*, *Cyanea st.-johnii*, *Cyanea truncata*, *Cyrtandra dentata*, *Cyrtandra gracilis*, *Cyrtandra kaulantha*, *Cyrtandra polyantha*, *Cyrtandra sessilis*, *Cyrtandra subumbellata*, *Cyrtandra viridiflora*, *Cyrtandra waiolani*, *Gardenia mannii*, *Hesperomannia arborescens*, *Isodendron longifolium*, *Labordia*

cyrtandrae, *Lobelia gaudichaudii* ssp. *koolauensis*, *Lobelia oahuensis*, *Melicope cornuta* var. *cornuta*, *Melicope hiiakae*, *Melicope lydgatei*, *Myrsine juddii*, *Phlegmariurus nutans*, *Phyllostegia hirsuta*, *Phyllostegia parviflora* var. *parviflora*, *Plantago princeps* var. *longibracteata*, *Plantago princeps* var. *princeps*, *Platanthera holochila*, , *Psychotria hexandra* var. *oahuensis*,

Pteralyxia macrocarpa, *Pteris lidgatei*, *Sanicula purpurea*, *Tetraplasandra gymnocarpa*, *Trematolobelia singularis*, *Viola oahuensis*, and *Zanthoxylum oahuense*.

(ii) Map of Oahu—Lowland Wet—Unit 6, Oahu—Lowland Wet—Unit 7, and Oahu—Lowland Wet—Unit 8 (Map 21) follows:

Map 21
Oahu—Lowland Wet
Unit 6, Unit 7 and Unit 8



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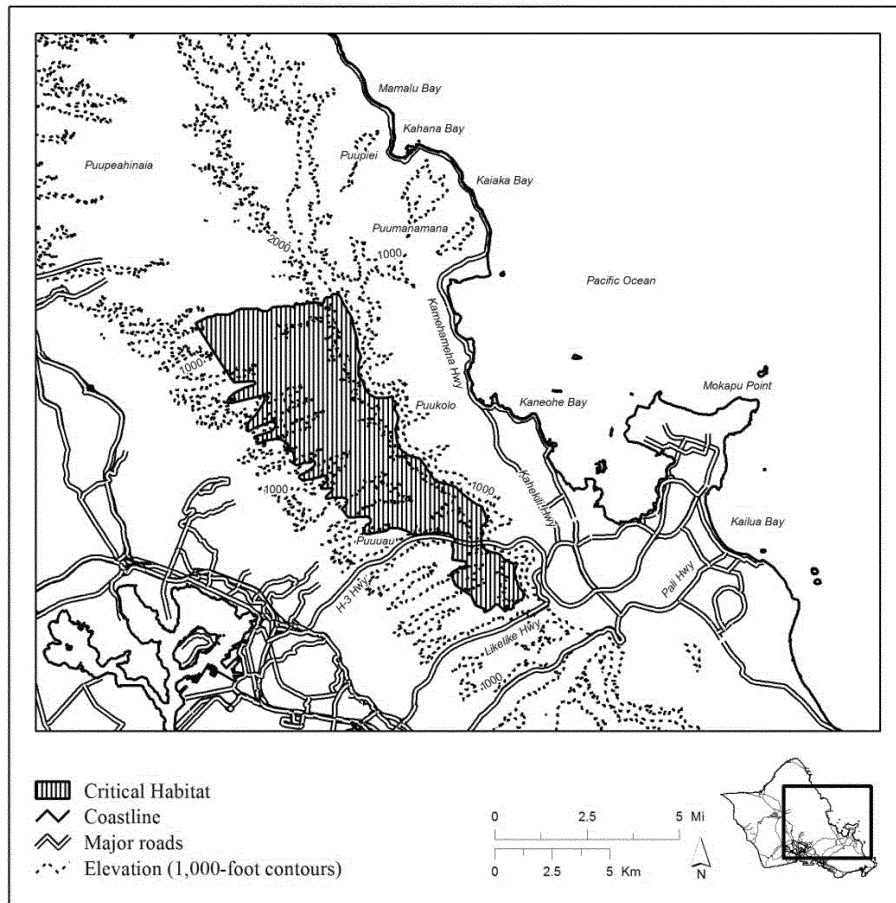
(23) Oahu—Lowland Wet—Unit 9 (15,728 ac; 6,365 ha).

(i) This unit is critical habitat for *Adenophorus periens*, *Chamaesyce rockii*, *Cyanea acuminata*, *Cyanea calycina*, *Cyanea crispa*, *Cyanea grimesiana* ssp. *grimesiana*, *Cyanea humboldtiana*, *Cyanea koolauensis*, *Cyanea lanceolata*, *Cyanea purpurellifolia*, *Cyanea st.-johnii*, *Cyanea truncata*, *Cyrtandra dentata*, *Cyrtandra gracilis*, *Cyrtandra kaulantha*, *Cyrtandra polyantha*, *Cyrtandra sessilis*, *Cyrtandra subumbellata*, *Cyrtandra viridiflora*, *Cyrtandra waiolani*, *Gardenia mannii*, *Hesperomannia arborescens*, *Isodendron longifolium*, *Labordia cyrtandrae*, *Lobelia gaudichaudii* ssp.

koolauensis, *Lobelia oahuensis*, *Melicope cornuta* var. *cornuta*, *Melicope hiiakae*, *Melicope lydgatei*, *Myrsine juddii*, *Phlegmariurus nutans*, *Phyllostegia hirsuta*, *Phyllostegia parviflora* var. *parviflora*, *Plantago princeps* var. *longibracteata*, *Plantago princeps* var. *princeps*, *Platanthera holochila*, *Psychotria hexandra* var. *oahuensis*, *Pteralyxia macrocarpa*, *Pteris lidgatei*, *Sanicula purpurea*, *Tetraplasandra gymnocarpa*, *Trematolobelia singularis*, *Viola oahuensis*, and *Zanthoxylum oahuense*.

(ii) Map of Oahu—Lowland Wet—Unit 9 (Map 22) follows:

Map 22
Oahu—Lowland Wet
Unit 9



(24) Oahu—Lowland Wet—Unit 10 (124 ac; 50 ha), Oahu—Lowland Wet—Unit 11 (124 ac; 50 ha), and Oahu—Lowland Wet—Unit 12 (53 ac; 21 ha).

(i) These units are critical habitat for *Adenophorus periens*, *Chamaesyce rockii*, *Cyanea acuminata*, *Cyanea calycina*, *Cyanea crista*, *Cyanea grimesiana* ssp. *grimesiana*, *Cyanea humboldtiana*, *Cyanea koolauensis*, *Cyanea lanceolata*, *Cyanea purpurellifolia*, *Cyanea st.-johnii*, *Cyanea truncata*, *Cyrtandra dentata*, *Cyrtandra gracilis*, *Cyrtandra kaulantha*,

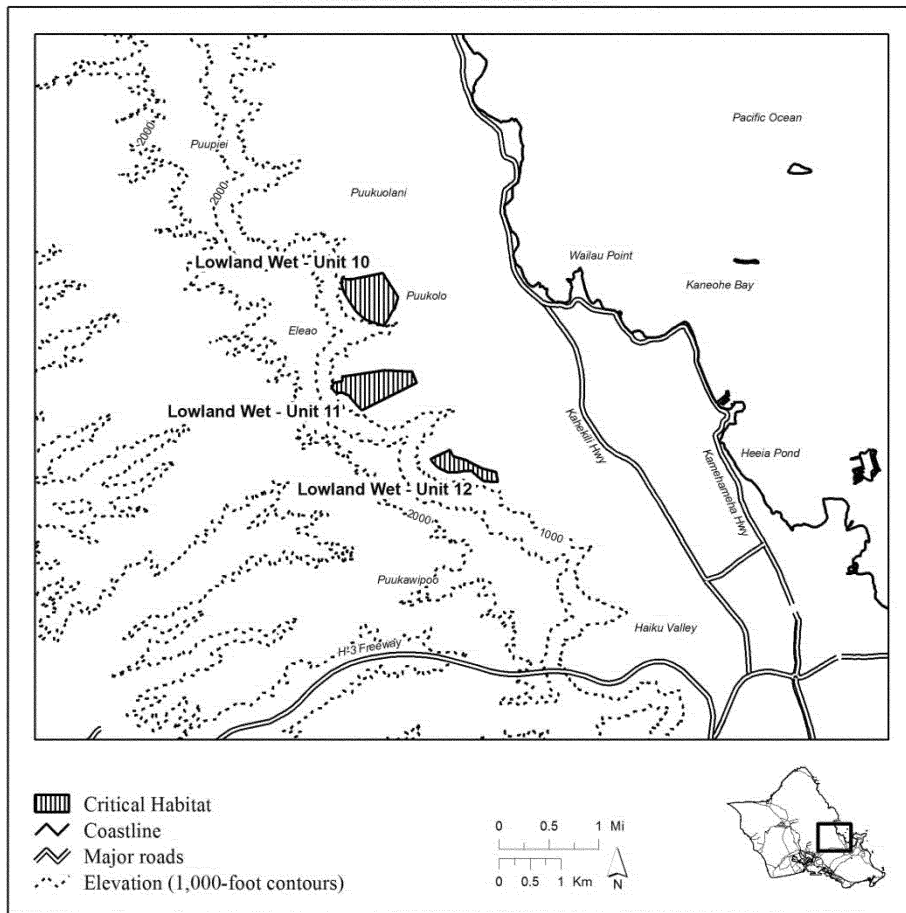
Cyrtandra polyantha, *Cyrtandra sessilis*, *Cyrtandra subumbellata*, *Cyrtandra viridiflora*, *Cyrtandra waiolani*, *Gardenia mannii*, *Hesperomannia arborescens*, *Isodendron longifolium*, *Labordia cyrtandrae*, *Lobelia gaudichaudii* ssp. *koolauensis*, *Lobelia oahuensis*, *Melicope cornuta* var. *cornuta*, *Melicope hiakae*, *Melicope lydgatei*, *Myrsine juddii*, *Phlegmariurus nutans*, *Phyllostegia hirsuta*, *Phyllostegia parviflora* var. *parviflora*, *Plantago princeps* var. *longibracteata*, *Plantago princeps* var.

princeps, *Platanthera holochila*,
Psychotria hexandra var. *oahuensis*,
Pteralyxia macrocarpa, *Pteris lidgatei*,
Sanicula purpurea, *Tetraplasandra*
gymnocarpa, *Trematolobelia singularis*,

Viola oahuensis, and *Zanthoxylum*
oahuense.

(ii) Map of Oahu—Lowland Wet—Unit 10, Oahu—Lowland Wet—Unit 11, and Oahu—Lowland Wet—Unit 12 (Map 23) follows:

Map 23
Oahu—Lowland Wet
Unit 10, Unit 11 and Unit 12



(25) Oahu—Lowland Wet—Unit 13 (75 ac; 30 ha), Oahu—Lowland Wet—Unit 14 (478 ac; 193 ha), Oahu—Lowland Wet—Unit 15 (407 ac; 165 ha), and Oahu—Lowland Wet—Unit 16 (2,507 ac; 1,014 ha).

(i) These units are critical habitat for *Adenophorus periens*, *Chamaesyce rockii*, *Cyanea acuminata*, *Cyanea calycina*, *Cyanea crispa*, *Cyanea grimesiana* ssp. *grimesiana*, *Cyanea humboldtiana*,

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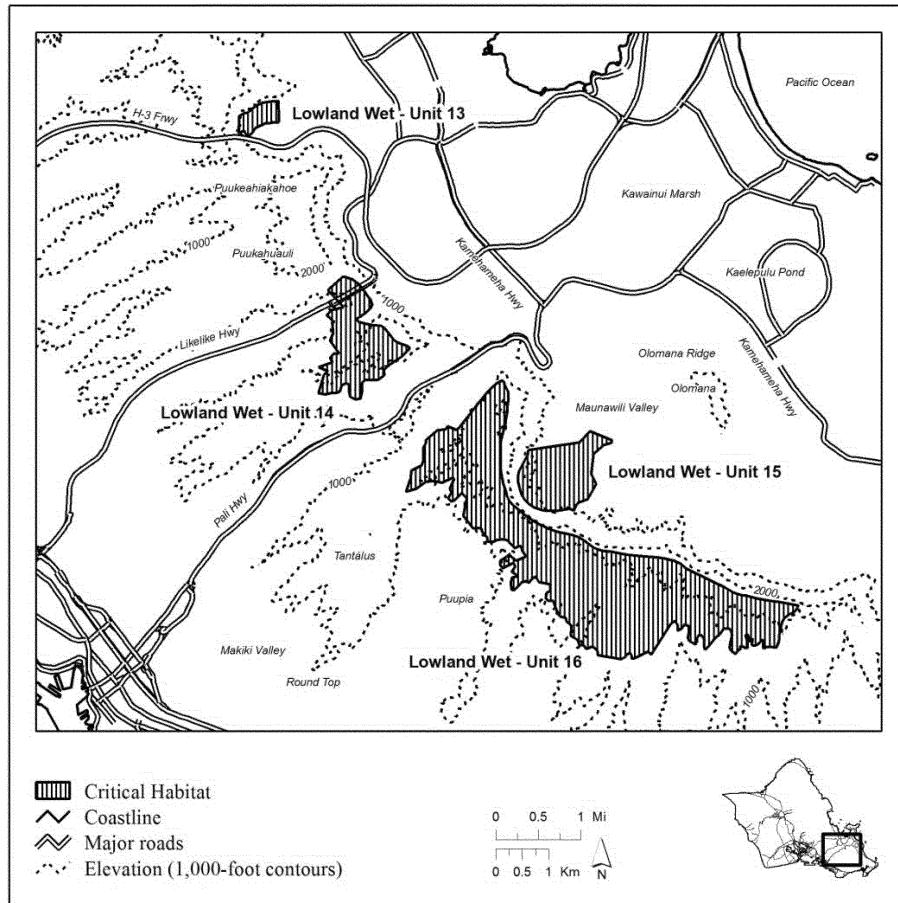
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Cyanea koolauensis, *Cyanea lanceolata*, *Cyanea purpurellifolia*, *Cyanea st.-johnii*, *Cyanea truncata*, *Cyrtandra dentata*, *Cyrtandra gracilis*, *Cyrtandra kaulantha*, *Cyrtandra polyantha*, *Cyrtandra sessilis*, *Cyrtandra subumbellata*, *Cyrtandra viridiflora*, *Cyrtandra waiolani*, *Gardenia mannii*, *Hesperomannia arborescens*, *Isodendron longifolium*, *Labordia cyrtandrae*, *Lobelia gaudichaudii* ssp. *koolauensis*, *Lobelia oahuensis*, *Melicope cornuta* var. *cornuta*, *Melicope hiiakae*, *Melicope lydgatei*, *Myrsine juddii*, *Phlegmariurus nutans*, *Phyllostegia hirsuta*, *Phyllostegia parviflora* var.

parviflora, *Plantago princeps* var. *longibracteata*, *Plantago princeps* var. *princeps*, *Platanthera holochila*, *Psychotria hexandra* var. *oahuensis*, *Pteralyxia macrocarpa*, *Pteris lidgatei*, *Sanicula purpurea*, *Tetraplasandra gymnocarpa*, *Trematolobelia singularis*, *Viola oahuensis*, and *Zanthoxylum oahuense*.

(ii) Map of Oahu—Lowland Wet—Unit 13, Oahu—Lowland Wet—Unit 14, Oahu—Lowland Wet—Unit 15, and Oahu—Lowland Wet—Unit 16 (Map 24) follows:

Map 24
Oahu—Lowland Wet
Unit 13, Unit 14, Unit 15 and Unit 16



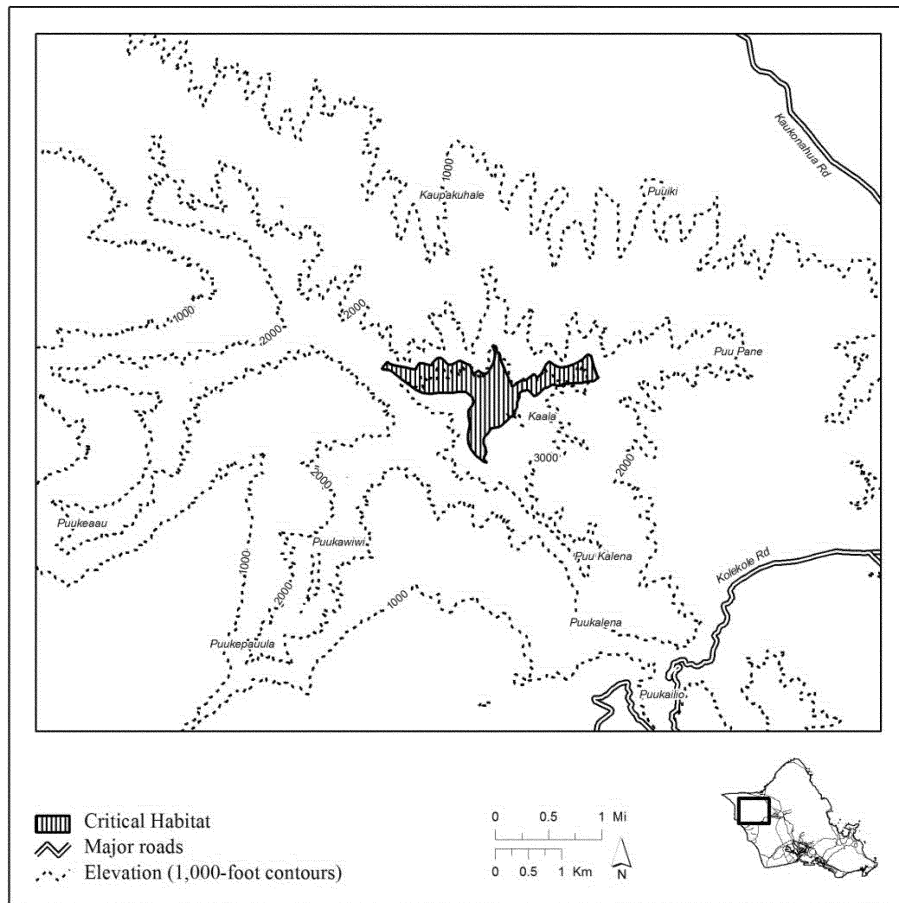
(26) Oahu—Montane Wet—Unit 1 (370 ac; 150 ha).

(i) This unit is critical habitat for *Alectryon macrococcus*, *Cyanea acuminata*, *Cyanea calycina*, *Labordia*

cyrtandrae, *Lobelia oahuensis*, *Melicope christophersenii*, *Phyllostegia hirsuta*, and *Schiedea trinervis*.

(ii) Map of Oahu—Montane Wet—Unit 1 (Map 25) follows:

Map 25
Oahu—Montane Wet
Unit 1



(27) Oahu—Dry Cliff—Unit 1 (49 ac; 20 ha), Oahu—Dry Cliff—Unit 2 (412 ac; 167 ha), and Oahu—Dry Cliff—Unit 3 (450 ac; 182 ha).

(i) These units are critical habitat for *Abutilon sandwicense*, *Achyranthes splendens* var. *rotundata*, *Alectryon macrococcus*, *Asplenium dielfalcatum*, *Bonamia menziesii*, *Cenchrus agrimonioides*, *Chamaesyce herbstii*, *Chamaesyce kuwaleana*, *Cyanea grimesiana* ssp. *obatae*, *Cyrtandra dentata*, *Diellia unisora*, *Dracaena*

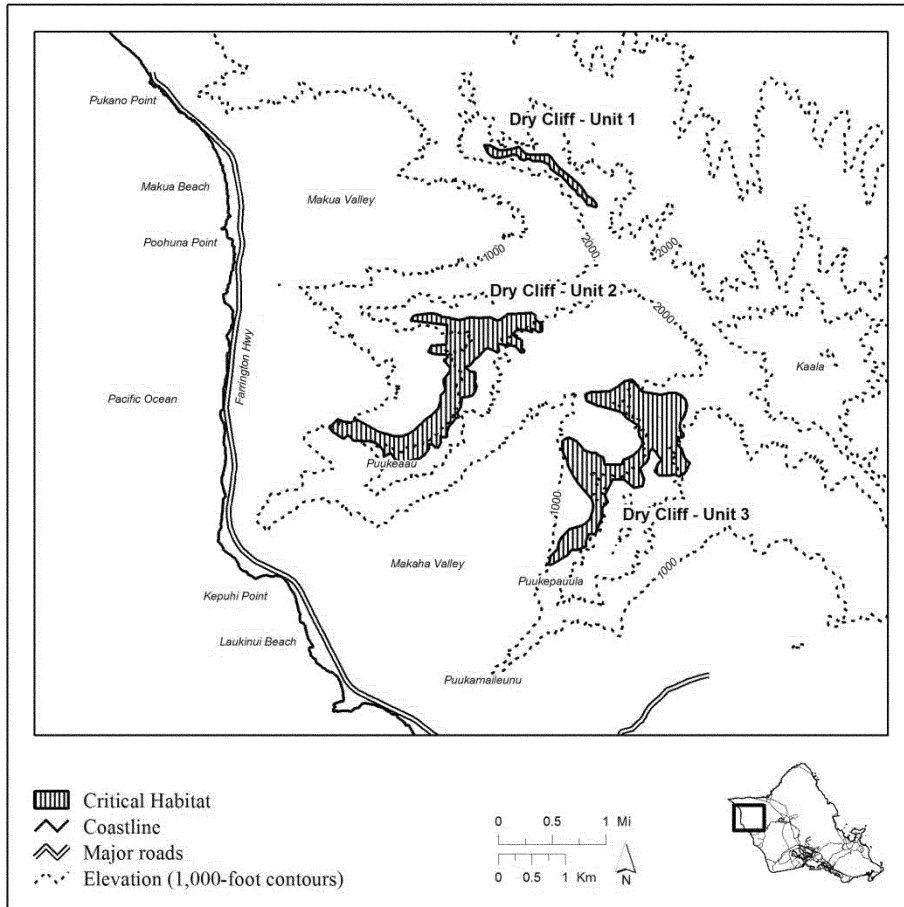
forbesii, *Dubautia herbstobatae*, *Eragrostis fosbergii*, *Flueggea neowaueraea*, *Gouania meyenii*, *Gouania vitifolia*, *Isodendron laurifolium*, *Isodendron pyrifolium*, *Kadua degeneri*, *Kadua parvula*, *Korthalsella degeneri*, *Lepidium arbuscula*, *Lipochaeta lobata* var. *leptophylla*, *Lobelia niihauensis*, *Melanthera tenuifolia*, *Melicope cornuta* var. *decurrens*, *Melicope makahae*, *Melicope saint-johnii*, *Neraudia angulata*, *Nototrichium humile*, *Peucedanum sandwicense*, *Phyllostegia kaalaensis*,

Plantago princeps var. *princeps*,
Pteralyxia macrocarpa, *Sanicula*
mariversa, *Schiedea hookeri*, *Schiedea*
obovata, *Schiedea trinervis*, *Silene*
lanceolata, *Silene perlmanni*, *Spermolepis*
hawaiiensis, *Tetramolopium filiforme*,

Tetramolopium lepidotum ssp. *lepidotum*,
 and *Viola chamissoniana* ssp.
chamissoniana.

(ii) Map of Oahu—Dry Cliff—Unit 1,
 Oahu—Dry Cliff—Unit 2, and Oahu—
 Dry Cliff—Unit 3 (Map 26) follows:

Map 26
Oahu—Dry Cliff
Unit 1, Unit 2 and Unit 3



(28) Oahu—Dry Cliff—Unit 4 (24 ac; 10 ha) and Oahu—Dry Cliff—Unit 6 (149 ac; 60 ha).

(i) These units are critical habitat for *Abutilon sandwicense*, *Achyranthes*

splendens var. *rotundata*, *Alectryon macrococcus*, *Asplenium dielfalcatum*, *Bonamia menziesii*, *Cenchrus agrimonoides*, *Chamaesyce herbstii*, *Chamaesyce kuwaleana*, *Cyanea*

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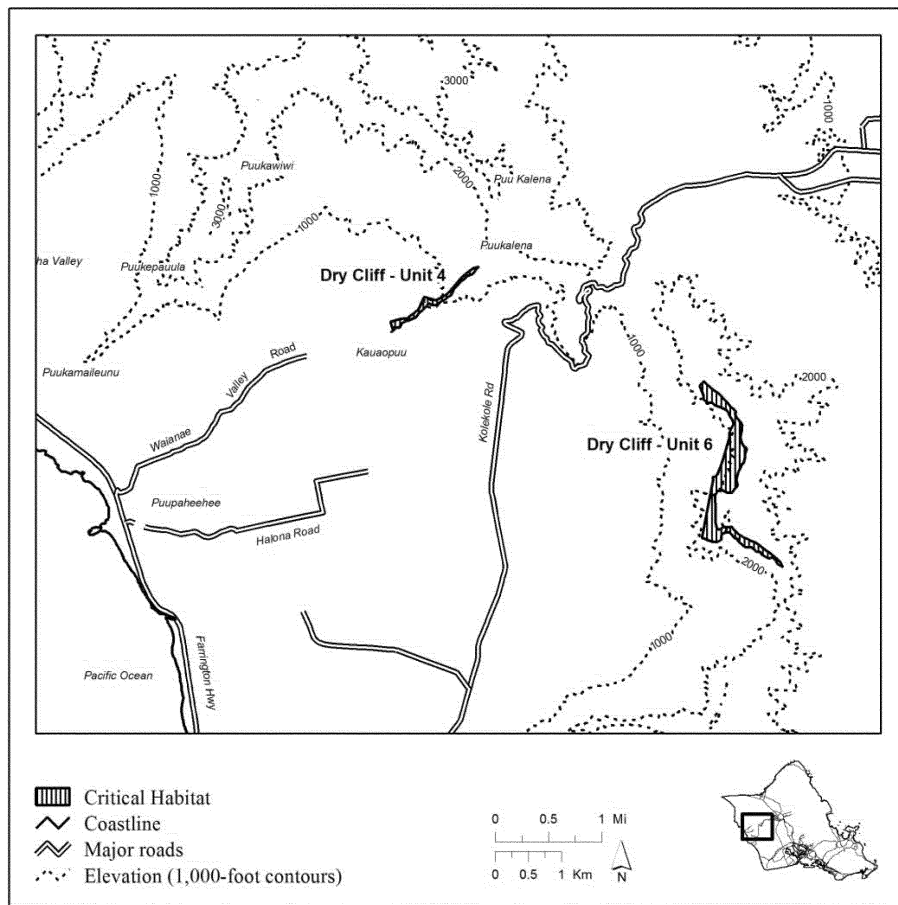
grimesiana ssp. *obatae*, *Cyrtandra dentata*, *Diellia unisora*, *Dracaena forbesii*, *Dubautia herbstobatae*, *Eragrostis fosbergii*, *Flueggea neowawraea*, *Gouania meyenii*, *Gouania vitifolia*, *Isodendron laurifolium*, *Isodendron pyrifolium*, *Kadua degeneri*, *Kadua parvula*, *Korthalsella degeneri*, *Lepidium arbuscula*, *Lipochaeta lobata* var. *leptophylla*, *Lobelia niihauensis*, *Melanthera tenuifolia*, *Melicope cornuta* var. *decurrens*, *Melicope makahae*, *Melicope saint-johnii*, *Neraudia angulata*, *Nototrichium humile*, *Peucedanum*

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sandwicense, *Phyllostegia kaalaensis*, *Plantago princeps* var. *princeps*, *Pteralyxia macrocarpa*, *Sanicula mariversa*, *Schiedea hookeri*, *Schiedea obovata*, *Schiedea trinervis*, *Silene lanceolata*, *Silene perlmanii*, *Spermolepis hawaiiensis*, *Tetramolopium filiforme*, *Tetramolopium lepidotum* ssp. *lepidotum*, and *Viola chamissoniana* ssp. *chamissoniana*.

(ii) Map of Oahu—Dry Cliff—Unit 4 and Oahu—Dry Cliff—Unit 6 (Map 27) follows:

Map 27
Oahu—Dry Cliff
Unit 4 and Unit 6



(29) Oahu—Dry Cliff—Unit 7a (68 ac; 27 ha), Oahu—Dry Cliff—Unit 7b (38 ac; 16 ha), and Oahu—Dry Cliff—Unit 8 (259 ac; 105 ha).

(i) These units are critical habitat for *Abutilon sandwicense*, *Achyranthes splendens* var. *rotundata*, *Alectryon macrococcus*, *Asplenium dielfalcatum*, *Bonamia menziesii*, *Cenchrus agrimonioides*, *Chamaesyce herbstii*, *Chamaesyce kuwaleana*, *Cyanea grimesiana* ssp. *obatae*, *Cyrtandra dentata*, *Diellia unisora*, *Dracaena*

forbesii, *Dubautia herbstobatae*, *Eragrostis fosbergii*, *Flueggea neowaueraea*, *Gouania meyenii*, *Gouania vitifolia*, *Isodendron laurifolium*, *Isodendron pyrifolium*, *Kadua degeneri*, *Kadua parvula*, *Korthalsella degeneri*, *Lepidium arbuscula*, *Lipochaeta lobata* var. *leptophylla*, *Lobelia niihauensis*, *Melanthera tenuifolia*, *Melicope cornuta* var. *decurrens*, *Melicope makahae*, *Melicope saint-johnii*, *Neraudia angulata*, *Nototrichium humile*, *Peucedanum sandwicense*, *Phyllostegia kaalaensis*,

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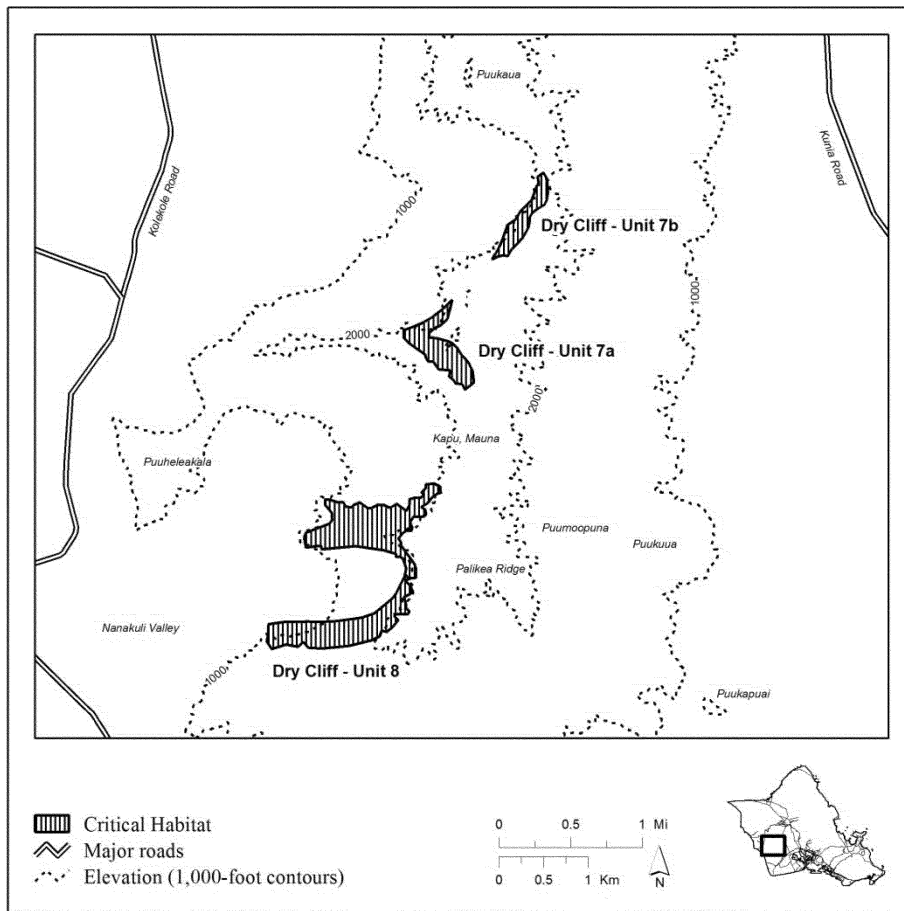
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Plantago princeps var. *princeps*,
Pteralyxia macrocarpa, *Sanicula*
mariversa, *Schiedea hookeri*, *Schiedea*
obovata, *Schiedea trinervis*, *Silene*
lanceolata, *Silene perlmanii*, *Spermolepis*
hawaiiensis, *Tetramolopium filiforme*,

Tetramolopium lepidotum ssp. *lepidotum*,
 and *Viola chamissoniana* ssp.
chamissoniana.

(ii) Map of Oahu—Dry Cliff—Unit 7a,
 Oahu—Dry Cliff—Unit 7b, and Oahu—
 Dry Cliff—Unit 8 (Map 28) follows:

Map 28
Oahu—Dry Cliff
Unit 7a, Unit 7b and Unit 8



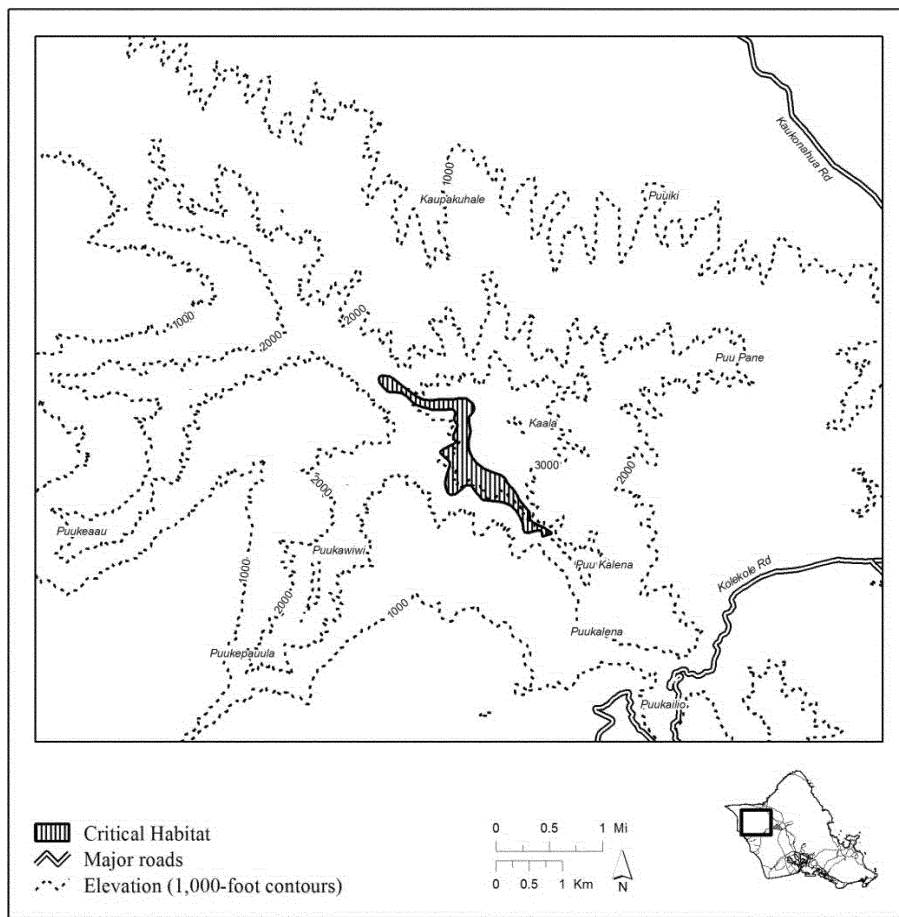
(30) Oahu—Wet Cliff—Unit 1 (235 ac;
 95 ha).

(i) This unit is critical habitat for
Cyanea acuminata, *Cyanea calycina*,
Labordia cyrtandrae, *Lobelia oahuensis*,

Melicope christophersenii, *Phyllostegia*
hirsuta, *Pteralyxia macrocarpa*, *Schiedea*
hookeri, *Schiedea kaalae*, and *Schiedea*
trinervis.

(ii) Map of Oahu—Wet Cliff—Unit 1 (Map 29) follows:

Map 29
Oahu—Wet Cliff
Unit 1



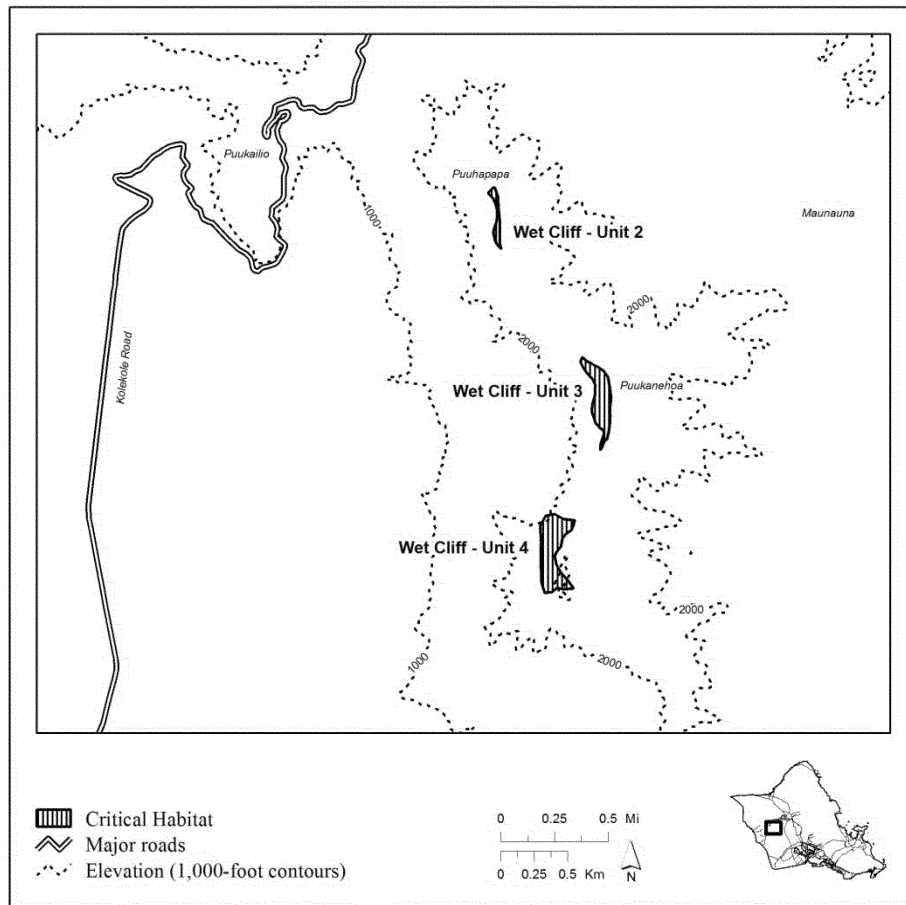
(31) Oahu—Wet Cliff—Unit 2 (3 ac; 1 ha), Oahu—Wet Cliff—Unit 3 (16 ac; 6 ha), and Oahu—Wet Cliff—Unit 4 (23 ac; 9 ha).

(i) These units are critical habitat for *Cyanea acuminata*, *Cyanea calycina*, *Lobelia cyrtandrae*, *Lobelia oahuensis*,

Melicope christophersenii, *Phyllostegia hirsuta*, *Pteralyxia macrocarpa*, *Schiedea hookeri*, *Schiedea kaalae*, and *Schiedea trinervis*.

(ii) Map of Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, and Oahu—Wet Cliff—Unit 4 (Map 30) follows:

Map 30
Oahu—Wet Cliff
Unit 2, Unit 3 and Unit 4



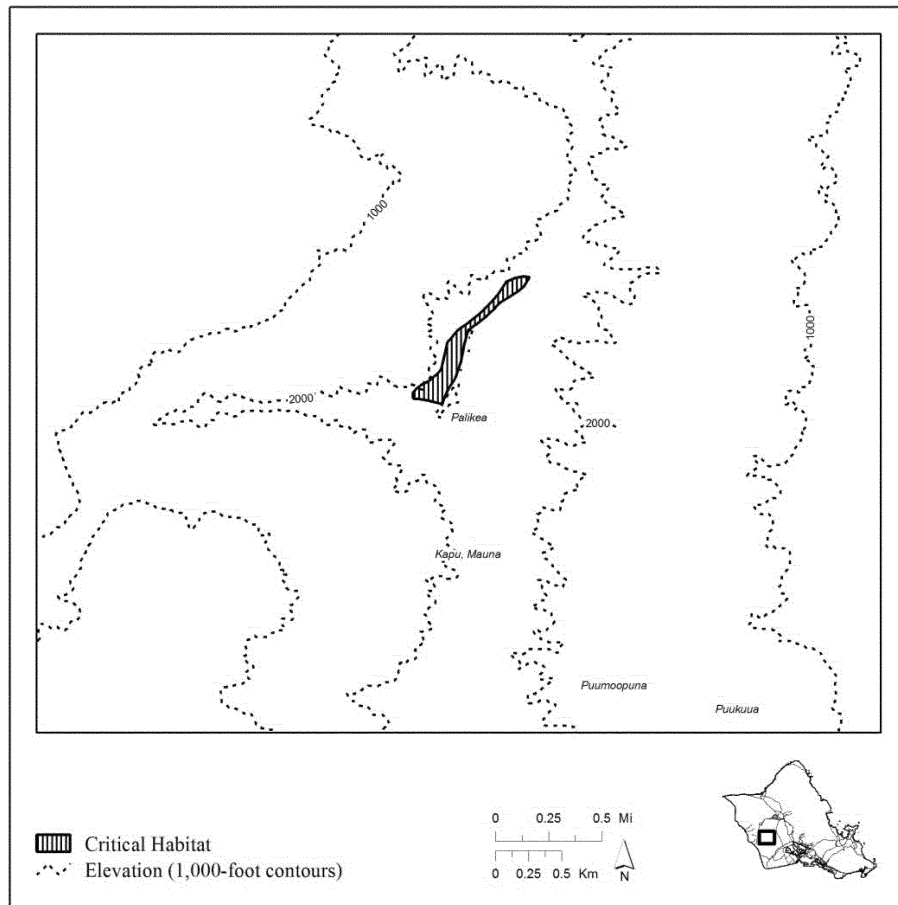
(32) Oahu—Wet Cliff—Unit 5 (31 ac; 13 ha).

(i) This unit is critical habitat for *Cyanea acuminata*, *Cyanea calycina*, *Labordia cyrtandrae*, *Lobelia oahuensis*, *Melicope christophersenii*, *Phyllostegia*

hirsuta, *Pteralyxia macrocarpa*, *Schiedea hookeri*, *Schiedea kaalae*, and *Schiedea trinervis*.

(ii) Map of Oahu—Wet Cliff—Unit 5 (Map 31) follows:

Map 31
Oahu—Wet Cliff
Unit 5



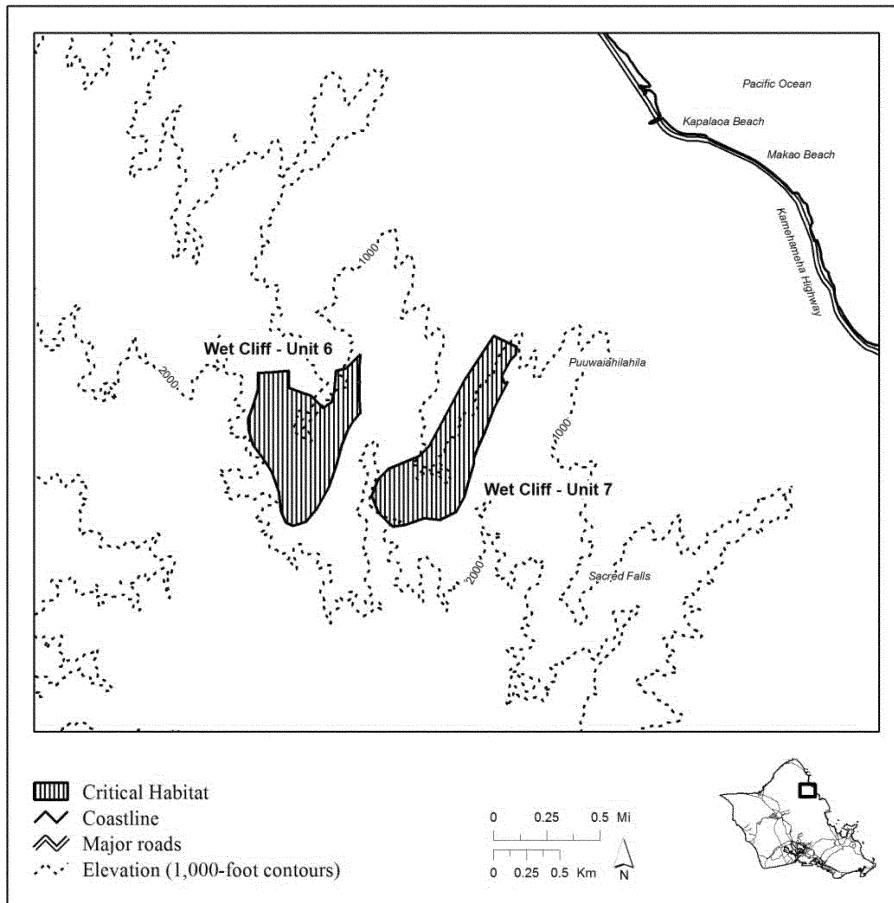
(33) Oahu—Wet Cliff—Unit 6 (151 ac; 61 ha) and Oahu—Wet Cliff—Unit 7 (144 ac; 58 ha).

(i) These units are critical habitat for *Adenophorus periens*, *Chamaesyce depeana*, *Chamaesyce rockii*, *Cyanea acuminata*, *Cyanea calycina*, *Cyanea crista*, *Cyanea humboldtiana*, *Cyanea purpurellifolia*, *Cyanea st.-johnii*, *Cyanea truncata*, *Cyrtandra kaulantha*, *Cyrtandra sessilis*, *Cyrtandra subumbellata*, *Cyrtandra viridiflora*, *Lobelia cyrtandrae*, *Lobelia oahuensis*,

Lysimachia filifolia, *Phlegmariurus nutans*, *Phyllostegia hirsuta*, *Phyllostegia parviflora* var. *parviflora*, *Plantago princeps* var. *princeps*, *Psychotria macrocarpa*, *Sanicula purpurea*, *Schiedea kaalae*, *Tetraplasandra gymnocarpa*, *Trematolobelia singularis*, and *Viola oahuensis*.

(ii) Map of Oahu—Wet Cliff—Unit 6 and Oahu—Wet Cliff—Unit 7 (Map 32) follows:

Map 32
Oahu—Wet Cliff
Unit 6 and Unit 7



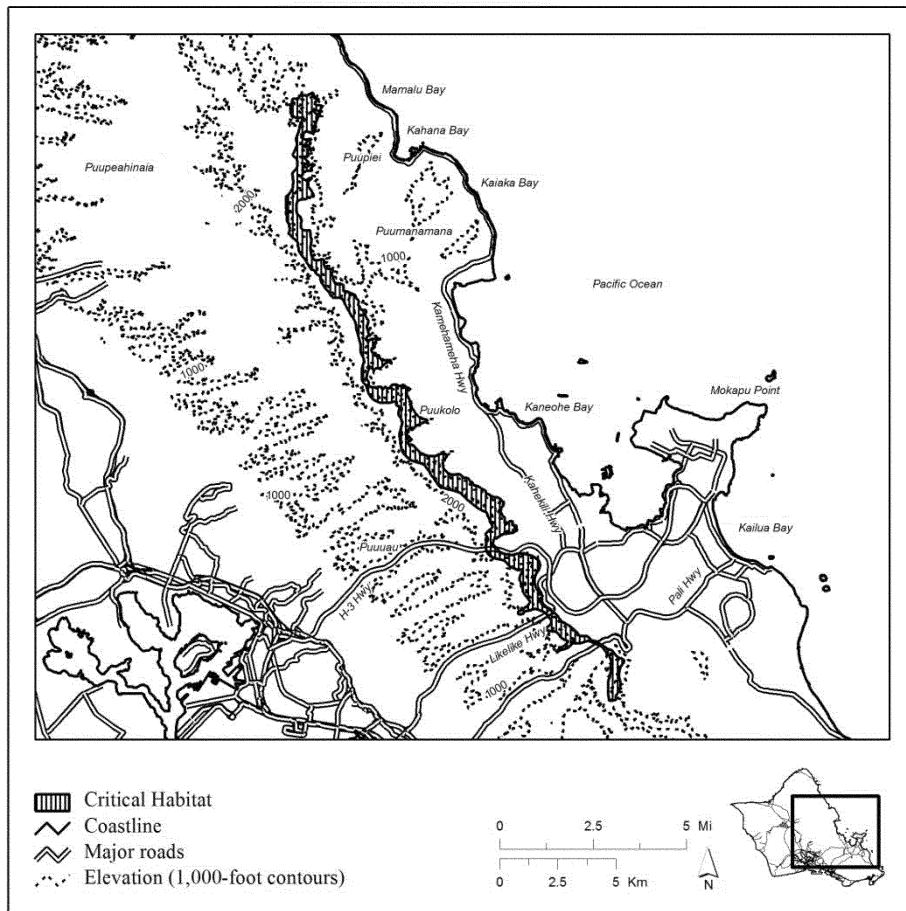
(34) Oahu—Wet Cliff—Unit 8 (4,649 ac; 1,881 ha).

(i) This unit is critical habitat for *Adenophorus periens*, *Chamaesyce deppeana*, *Chamaesyce rockii*, *Cyanea acuminata*, *Cyanea calycina*, *Cyanea crispera*, *Cyanea humboldtiana*, *Cyanea purpurellifolia*, *Cyanea st.-johnii*, *Cyanea truncata*, *Cyrtandra kaulantha*, *Cyrtandra sessilis*, *Cyrtandra subumbellata*, *Cyrtandra viridiflora*, *Lobelia cyrtandrae*, *Lobelia oahuensis*,

Lysimachia filifolia, *Phlegmariurus nutans*, *Phyllostegia hirsuta*, *Phyllostegia parviflora* var. *parviflora*, *Plantago princeps* var. *princeps*, *Psychotria macrocarpa*, *Sanicula purpurea*, *Schiedea kaalae*, *Tetraplasandra gymnocarpa*, *Trematolobelia singularis*, and *Viola oahuensis*.

(ii) Map of Oahu—Wet Cliff—Unit 8 (Map 33) follows:

Map 33
Oahu—Wet Cliff
Unit 8



(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU

Unit name	Species occupied	Species unoccupied
Oahu—Coastal—Unit 1	<i>Achyranthes splendens</i> var. <i>rotundata</i> ... <i>Chamaesyce celastroides</i> var. <i>kaenana</i> <i>Sesbania tomentosa</i>	<i>Achyranthes splendens</i> var. <i>rotundata</i> <i>Bidens amplexans</i> <i>Schenkia sebaeoides</i> <i>Chamaesyce celastroides</i> var. <i>kaenana</i> <i>Schiedea kealiae</i> <i>Sesbania tomentosa</i> <i>Vigna o-wahuensis</i>
Oahu—Coastal—Unit 2		<i>Schenkia sebaeoides</i> <i>Chamaesyce kuwaleana</i> <i>Sesbania tomentosa</i> <i>Vigna o-wahuensis</i>
Oahu—Coastal—Unit 3		

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
Oahu—Coastal—Unit 4		<i>Schenkia sebaeoides</i> <i>Chamaesyce kuwaleana</i> <i>Sesbania tomentosa</i> <i>Vigna o-wahuensis</i>
Oahu—Coastal—Unit 5		<i>Schenkia sebaeoides</i> <i>Chamaesyce kuwaleana</i> <i>Sesbania tomentosa</i> <i>Vigna o-wahuensis</i>
Oahu—Coastal—Unit 6		<i>Schenkia sebaeoides</i> <i>Chamaesyce kuwaleana</i> <i>Sesbania tomentosa</i> <i>Vigna o-wahuensis</i>
Oahu—Coastal—Unit 7		<i>Schenkia sebaeoides</i> <i>Chamaesyce kuwaleana</i> <i>Sesbania tomentosa</i> <i>Vigna o-wahuensis</i>
Oahu—Coastal—Unit 8		<i>Schenkia sebaeoides</i> <i>Chamaesyce kuwaleana</i> <i>Sesbania tomentosa</i> <i>Vigna o-wahuensis</i>
Oahu—Coastal—Unit 9	<i>Sesbania tomentosa</i>	<i>Schenkia sebaeoides</i> <i>Chamaesyce kuwaleana</i> <i>Sesbania tomentosa</i> <i>Vigna o-wahuensis</i>
Oahu—Coastal—Unit 10	<i>Cyperus trachysanthos</i> <i>Marsilea villosa</i>	<i>Schenkia sebaeoides</i> <i>Chamaesyce kuwaleana</i> <i>Cyperus trachysanthos</i> <i>Marsilea villosa</i> <i>Sesbania tomentosa</i> <i>Vigna o-wahuensis</i>
Oahu—Coastal—Unit 11	<i>Schenkia sebaeoides</i>	<i>Schenkia sebaeoides</i> <i>Chamaesyce kuwaleana</i> <i>Sesbania tomentosa</i> <i>Vigna o-wahuensis</i>
Oahu—Coastal—Unit 12	<i>Marsilea villosa</i>	<i>Schenkia sebaeoides</i> <i>Chamaesyce kuwaleana</i> <i>Cyperus trachysanthos</i> <i>Marsilea villosa</i> <i>Sesbania tomentosa</i> <i>Vigna o-wahuensis</i>
Oahu—Coastal—Unit 13	<i>Achyranthes splendens</i> var. <i>rotundata</i> ...	<i>Schenkia sebaeoides</i> <i>Chamaesyce kuwaleana</i> <i>Cyperus trachysanthos</i> <i>Marsilea villosa</i> <i>Sesbania tomentosa</i> <i>Vigna o-wahuensis</i>
Oahu—Coastal—Unit 14	<i>Achyranthes splendens</i> var. <i>rotundata</i> ...	<i>Achyranthes splendens</i> var. <i>rotundata</i> <i>Bidens amplexans</i> <i>Schenkia sebaeoides</i> <i>Chamaesyce celastroides</i> var. <i>kaenana</i> <i>Schiedea kealiae</i> <i>Sesbania tomentosa</i> <i>Vigna o-wahuensis</i>
Oahu—Coastal—Unit 15		<i>Achyranthes splendens</i> var. <i>rotundata</i> <i>Bidens amplexans</i> <i>Schenkia sebaeoides</i> <i>Chamaesyce celastroides</i> var. <i>kaenana</i> <i>Schiedea kealiae</i> <i>Sesbania tomentosa</i> <i>Vigna o-wahuensis</i>

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
Oahu—Lowland Dry—Unit 1	<i>Achyranthes splendens</i> var. <i>rotundata</i> ...	<i>Achyranthes splendens</i> var. <i>rotundata</i> <i>Bidens amplexens</i> <i>Schenkia sebaeoides</i> <i>Chamaesyce celastroides</i> var. <i>kaenana</i> <i>Schiedea kealiae</i> <i>Sesbania tomentosa</i> <i>Vigna o-wahuensis</i>
	.....	<i>Achyranthes splendens</i> var. <i>rotundata</i> .
	<i>Bidens amplexens</i>	<i>Bidens amplexens</i> . <i>Bonamia menziesii</i> . <i>Chamaesyce celastroides</i> var. <i>kaenana</i> . <i>Dracaena forbesii</i> . <i>Euphorbia haeleleana</i> . <i>Gouania meyenii</i> . <i>Gouania vitifolia</i> .
	<i>Hibiscus brackenridgei</i>	<i>Hibiscus brackenridgei</i> . <i>Isodendron pyriformum</i> . <i>Melanthera tenuifolia</i> . <i>Neraudia angulata</i> .
	<i>Nototrichium humile</i>	<i>Nototrichium humile</i> . <i>Schiedea hookeri</i> .
Oahu—Lowland Dry—Unit 2	<i>Schiedea kealiae</i>	<i>Schiedea kealiae</i> . <i>Spermolepis hawaiiensis</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 haeleleana</i> . <i>Gouania meyenii</i> . <i>Gouania vitifolia</i> . <i>Hibiscus brackenridgei</i> . <i>Isodendron pyriformum</i> .
	<i>Bonamia menziesii</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> .
	<i>Dracaena forbesii</i>	<i>Doryopteris takeuchii</i>
	<i>Melanthera tenuifolia</i>	<i>Gouania meyenii</i> <i>Spermolepis hawaiiensis</i>
	<i>Nototrichium humile</i>	<i>Cyperus trachysanthos</i>
Oahu—Lowland Dry—Unit 6	<i>Doryopteris takeuchii</i>	<i>Cyperus trachysanthos</i> <i>Doryopteris takeuchii</i> <i>Gouania meyenii</i> <i>Marsilea villosa</i> <i>Spermolepis hawaiiensis</i>
Oahu—Lowland Dry—Unit 7	<i>Spermolepis hawaiiensis</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 haeleleana</i> . <i>Euphorbia skottsbergii</i> var. <i>skottsbergii</i> . <i>Gouania meyenii</i> . <i>Gouania vitifolia</i> . <i>Hibiscus brackenridgei</i> . <i>Isodendron pyriformum</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> ...
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 haeleleana</i> . <i>Euphorbia skottsbergii</i> var. <i>skottsbergii</i> . <i>Gouania meyenii</i> .
	

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
Oahu—Lowland Dry—Unit 10	<i>Euphorbia skottsbergii</i> var. <i>skottsbergii</i> ..	<p><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>. <i>Achyranthes splendens</i> var. <i>rotundata</i>. <i>Bidens amplexans</i>. <i>Bonamia menziesii</i>. <i>Chamaesyce celastroides</i> var. <i>kaenana</i>. <i>Euphorbia haelealeana</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>. <i>Achyranthes splendens</i> var. <i>rotundata</i>. <i>Bidens amplexans</i>. <i>Bonamia menziesii</i>. <i>Chamaesyce celastroides</i> var. <i>kaenana</i>. <i>Euphorbia haelealeana</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>. <i>Abutilon sandwicense</i> <i>Alectryon macrococcus</i> <i>Asplenium dielfalcatum</i> <i>Bonamia menziesii</i> <i>Cenchrus agrimonioides</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 superba</i> <i>Cyrtandra dentata</i> <i>Delissea subcordata</i> <i>Dracaena forbesii</i> <i>Dubautia herbstobatae</i> <i>Eragrostis fosbergii</i> <i>Euphorbia haelealeana</i> <i>Flueggea neowawraea</i> <i>Hesperomannia arborescens</i></p>
Oahu—Lowland Dry—Unit 11	<i>Euphorbia skottsbergii</i> var. <i>skottsbergii</i> ..	<p><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>. <i>Achyranthes splendens</i> var. <i>rotundata</i>. <i>Bidens amplexans</i>. <i>Bonamia menziesii</i>. <i>Chamaesyce celastroides</i> var. <i>kaenana</i>. <i>Euphorbia haelealeana</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>. <i>Abutilon sandwicense</i> <i>Alectryon macrococcus</i> <i>Asplenium dielfalcatum</i> <i>Bonamia menziesii</i> <i>Cenchrus agrimonioides</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 superba</i> <i>Cyrtandra dentata</i> <i>Delissea subcordata</i> <i>Dracaena forbesii</i> <i>Dubautia herbstobatae</i> <i>Eragrostis fosbergii</i> <i>Euphorbia haelealeana</i> <i>Flueggea neowawraea</i> <i>Hesperomannia arborescens</i></p>
Oahu—Lowland Mesic—Unit 1	<p><i>Abutilon sandwicense</i> <i>Alectryon macrococcus</i> <i>Asplenium dielfalcatum</i> <i>Bonamia menziesii</i> <i>Cenchrus agrimonioides</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 superba</i> <i>Cyrtandra dentata</i> <i>Delissea subcordata</i> <i>Dracaena forbesii</i> <i>Dubautia herbstobatae</i> <i>Eragrostis fosbergii</i> <i>Euphorbia haelealeana</i> <i>Flueggea neowawraea</i> <i>Hesperomannia arborescens</i></p>	<p><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>. <i>Achyranthes splendens</i> var. <i>rotundata</i>. <i>Bidens amplexans</i>. <i>Bonamia menziesii</i>. <i>Chamaesyce celastroides</i> var. <i>kaenana</i>. <i>Euphorbia haelealeana</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>. <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 pennatififormis</i>. <i>Cyrtandra dentata</i>. <i>Delissea subcordata</i>. <i>Diellia unisora</i>. <i>Diplazium molokaiense</i>. <i>Dracaena forbesii</i>. <i>Dubautia herbstobatae</i>. <i>Eragrostis fosbergii</i>. <i>Eugenia koolauensis</i>. <i>Euphorbia haelealeana</i>. <i>Flueggea neowawraea</i>. <i>Gardenia manni</i>. <i>Gouania meyenii</i>. <i>Gouania vitifolia</i>. <i>Hesperomannia arborescens</i>.</p>

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
Oahu—Lowland Mesic—Unit 2	<i>Hesperomannia arbuscula</i>	<i>Hesperomannia arbuscula</i> .
	<i>Hibiscus brackenridgei</i>	<i>Hibiscus brackenridgei</i> .
	<i>Isodendron laurifolium</i>	<i>Isodendron laurifolium</i> .
	<i>Isodendron longifolium</i>	<i>Isodendron longifolium</i> .
	<i>Kadua degeneri</i>	<i>Kadua coriacea</i> .
		<i>Kadua degeneri</i> .
		<i>Kadua parvula</i> .
		<i>Labordia cyrtandrae</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 pallida</i>	<i>Melicope pallida</i> .
		<i>Melicope saint-johnii</i> .
	<i>Neraudia angulata</i>	<i>Neraudia angulata</i> .
	<i>Nototrichium humile</i>	<i>Nototrichium humile</i> .
		<i>Phyllostegia hirsuta</i> .
	<i>Phyllostegia kaalaensis</i>	<i>Phyllostegia kaalaensis</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 nuttallii</i> .
	<i>Schiedea obovata</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>Viola chamissoniana</i> ssp.
		<i>chamissoniana</i> .
	<i>Abutilon sandwicense</i>	<i>Abutilon sandwicense</i> .
	<i>Alectryon macrococcus</i>	<i>Alectryon macrococcus</i> .
	<i>Asplenium dieffalcatum</i>	<i>Asplenium dieffalcatum</i> .
		<i>Bonamia menziesii</i> .
	<i>Cenchrus agrimonioides</i>	<i>Cenchrus agrimonioides</i> .
		<i>Chamaesyce celastroides</i> var. <i>kaenana</i> .
	<i>Chamaesyce herbstii</i>	<i>Chamaesyce herbstii</i> .
		<i>Colubrina oppositifolia</i> .
		<i>Ctenitis squamigera</i> .
		<i>Cyanea acuminata</i> .
<i>Cyanea calycina</i>	<i>Cyanea calycina</i> .	
	<i>Cyanea grimesiana</i> ssp. <i>grimesiana</i> .	
<i>Cyanea grimesiana</i> ssp. <i>obatae</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>Delissea subcordata</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>Gardenia mannii</i> .	
	<i>Gouania meyenii</i> .	
	<i>Gouania vitifolia</i> .	
	<i>Hesperomannia arborescens</i> .	
	<i>Hesperomannia arbuscula</i> .	
	<i>Hibiscus brackenridgei</i> .	
	<i>Isodendron laurifolium</i> .	
	<i>Isodendron longifolium</i> .	
	<i>Kadua coriacea</i> .	
	<i>Kadua degeneri</i> .	

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
Oahu—Lowland Mesic—Unit 3		<i>Kadua parvula.</i> <i>Labordia cyrtandrae.</i> <i>Lobelia niihauensis.</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 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>Pteralyxia macrocarpa</i>	<i>Plantago princeps.</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>Solanum sandwicense</i>	<i>Silene perlmanii.</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>
		<i>Abutilon sandwicense.</i>
	<i>Alectryon macrococcus</i>	<i>Alectryon macrococcus.</i>
	<i>Asplenium dielfalcatum</i>	<i>Asplenium dielfalcatum.</i>
		<i>Bonamia menziesii.</i>
	<i>Cenchrus agrimonioides</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 pennatififormis.</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 haeleleleana.</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>Isodendron laurifolium.</i>	
	<i>Isodendron 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 cornuta</i> var. <i>decurrens.</i>	
	<i>Melicope makahae.</i>	

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
Oahu—Lowland Mesic—Unit 6	<p>.....</p> <p><i>Cyanea acuminata</i></p> <p><i>Cyanea crispa</i></p> <p><i>Cyanea truncata</i></p> <p><i>Gardenia mannii</i></p> <p><i>Pteralyxia macrocarpa</i></p> <p><i>Schiedea kaalae</i></p>	<p><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>Isodendron laurifolium.</i> <i>Isodendron 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</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>Isodendron laurifolium.</i> <i>Isodendron 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</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></p>
Oahu—Lowland Mesic—Unit 7	<p>.....</p> <p><i>Asplenium dielerectum</i></p> <p><i>Bonamia menziesii</i></p> <p><i>Cyanea acuminata</i></p> <p><i>Cyanea grimesiana</i> ssp. <i>grimesiana</i></p>	<p><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></p>

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
Oahu—Lowland Wet—Unit 1	<i>Cyanea lanceolata</i>	<i>Cyanea lanceolata</i> . <i>Cyanea longiflora</i> . <i>Cyanea truncata</i> . <i>Cyrtandra dentata</i> .
	<i>Cyrtandra polyantha</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>Isodendron laurifolium</i> . <i>Isodendron longifolium</i> . <i>Kadua coriacea</i> . <i>Labordia cyrtandrae</i> .
	<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> .
		<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>Cyrtandra dentata</i> <i>Diplazium molokaiense</i> <i>Gardenia mannii</i> <i>Gouania vitifolia</i> <i>Hesperomannia arbuscula</i> <i>Isodendron longifolium</i> <i>Labordia cyrtandrae</i> <i>Lobelia oahuensis</i> <i>Phyllostegia hirsuta</i> <i>Phyllostegia mollis</i> <i>Plantago princeps</i> <i>Pteralyxia macrocarpa</i>
		<i>Schiedea hookeri</i>
		<i>Schiedea hookeri</i> <i>Schiedea kaalae</i>
		<i>Urera kaalae</i>
Oahu—Lowland Wet—Unit 2		<i>Urera kaalae</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>Cyrtandra dentata</i> <i>Diplazium molokaiense</i> <i>Gardenia mannii</i> <i>Gouania vitifolia</i> <i>Hesperomannia arbuscula</i> <i>Isodendron longifolium</i> <i>Labordia cyrtandrae</i> <i>Lobelia oahuensis</i>
	<i>Phyllostegia hirsute</i>	<i>Phyllostegia hirsuta</i>
	<i>Phyllostegia mollis</i>	<i>Phyllostegia mollis</i> <i>Plantago princeps</i> <i>Pteralyxia macrocarpa</i> <i>Schiedea hookeri</i> <i>Schiedea kaalae</i>
Oahu—Lowland Wet—Unit 3		<i>Urera kaalae</i> <i>Urera kaalae</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>

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
Oahu—Lowland Wet—Unit 4	<i>Phyllostegia hirsuta</i> <i>Phyllostegia mollis</i>	<i>Cyrtandra dentata</i> <i>Diplazium molokaiense</i> <i>Gardenia mannii</i> <i>Gouania vitifolia</i> <i>Hesperomannia arbuscula</i> <i>Isodendron longifolium</i> <i>Labordia cyrtandrae</i> <i>Lobelia oahuensis</i> <i>Phyllostegia hirsuta</i> <i>Phyllostegia mollis</i> <i>Plantago princeps</i> <i>Pteralyxia macrocarpa</i> <i>Schiedea hookeri</i> <i>Schiedea kaalae</i> <i>Urera kaalae</i>
	<i>Phyllostegia mollis</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>Cyrtandra dentata</i> <i>Diplazium molokaiense</i> <i>Gardenia mannii</i> <i>Gouania vitifolia</i> <i>Hesperomannia arbuscula</i> <i>Isodendron longifolium</i> <i>Labordia cyrtandrae</i> <i>Lobelia oahuensis</i> <i>Phyllostegia hirsuta</i> <i>Phyllostegia mollis</i> <i>Plantago princeps</i> <i>Pteralyxia macrocarpa</i> <i>Schiedea hookeri</i> <i>Schiedea kaalae</i> <i>Urera kaalae</i>
Oahu—Lowland Wet—Unit 5	<i>Cyanea calycina</i>	<i>Cyanea acuminata</i>
	<i>Cyanea grimesiana</i> ssp. <i>obatae</i>	<i>Cyanea calycina</i>
	<i>Hesperomannia arbuscula</i>	<i>Cyanea grimesiana</i> ssp. <i>grimesiana</i>
		<i>Cyanea grimesiana</i> ssp. <i>obatae</i>
		<i>Cyrtandra dentata</i>
		<i>Diplazium molokaiense</i>
		<i>Gardenia mannii</i>
		<i>Gouania vitifolia</i>
		<i>Hesperomannia arbuscula</i>
		<i>Isodendron longifolium</i>
		<i>Labordia cyrtandrae</i>
		<i>Lobelia oahuensis</i>
		<i>Phyllostegia hirsuta</i>
		<i>Phyllostegia mollis</i>
		<i>Plantago princeps</i>
		<i>Pteralyxia macrocarpa</i>
		<i>Schiedea hookeri</i>
Oahu—Lowland Wet—Unit 6	<i>Schiedea kaalae</i>	<i>Schiedea kaalae</i>
	.....	<i>Urera kaalae</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>

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
Oahu—Lowland Wet—Unit 7		<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>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 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 koolauensis</i> .	
	<i>Cyanea lanceolata</i> .	
	<i>Cyanea purpurellifolia</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>Gardenia mannii</i> .	
	<i>Hesperomannia arborescens</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 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> .	
	<i>Adenophorus periens</i> .	
	<i>Chamaesyce rockii</i> .	
	<i>Cyanea acuminata</i> .	
Oahu—Lowland Wet—Unit 8		

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
Oahu—Lowland Wet—Unit 9	<i>Cyrtandra kaulantha</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 cornuta</i> var. <i>cornuta</i> . <i>Melicope hiiaakae</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>Chamaesyce rockii</i> .
<i>Cyanea calycina</i>		<i>Cyanea calycina</i> . <i>Cyanea crispa</i> .
<i>Cyanea humboldtiana</i>		<i>Cyanea grimesiana</i> ssp. <i>grimesiana</i> . <i>Cyanea humboldtiana</i> .
<i>Cyanea koolauensis</i>		<i>Cyanea koolauensis</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 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> .
<i>Gardenia mannii</i>		<i>Gardenia mannii</i> .
<i>Hesperomannia arborescens</i>		<i>Hesperomannia arborescens</i> . <i>Isodendron longifolium</i> .
<i>Labordia cyrtandrae</i>		<i>Labordia cyrtandrae</i> . <i>Lobelia gaudichaudii</i> ssp. <i>koolauensis</i> .
<i>Lobelia oahuensis</i>		<i>Lobelia oahuensis</i> .
<i>Melicope cornuta</i> var. <i>cornuta</i>		<i>Melicope cornuta</i> var. <i>cornuta</i> .
<i>Melicope hiiaakae</i>		<i>Melicope hiiaakae</i> .
<i>Melicope lydgatei</i>		<i>Melicope lydgatei</i> . <i>Myrsine juddii</i> . <i>Phlegmariurus nutans</i> .
<i>Phyllostegia hirsuta</i>		<i>Phyllostegia hirsuta</i> .

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
Oahu—Lowland Wet—Unit 10	<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>Zanthoxylum oahuense</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 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>Phlegmarium 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> .

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
		<p><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>comuta.</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></p>
Oahu—Lowland Wet—Unit 12	<p><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>Lobelia gaudichaudii</i> ssp. <i>koolauensis.</i> <i>Lobelia oahuensis.</i> <i>Melicope cornuta</i> var. <i>comuta.</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></p>
Oahu—Lowland Wet—Unit 13	<p><i>Adenophorus periens.</i> <i>Chamaesyce rockii.</i> <i>Cyanea acuminata.</i> <i>Cyanea calycina.</i></p>

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
Oahu—Lowland Wet—Unit 14		<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 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>Cyanea koolauensis</i>	<i>Adenophorus perieni.</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 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>

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
Oahu—Lowland Wet—Unit 15	<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 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>comuta.</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 16	<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>

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
Oahu—Montane Wet—Unit 1	<i>Gardenia mannii</i>	<i>Cyrtandra waiolani</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 hiakae</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>Trematolobelia singularis</i> . <i>Viola oahuensis</i> . <i>Zanthoxylum oahuense</i> .
		<i>Alectryon macrococcus</i> var. <i>macrococcus</i>
	<i>Cyanea acuminata</i>	<i>Cyanea acuminata</i>
	<i>Cyanea calycina</i>	<i>Cyanea calycina</i>
	<i>Lobelia cyrtandrae</i>	<i>Lobelia cyrtandrae</i>
	<i>Melicope christophersenii</i>	<i>Melicope christophersenii</i>
Oahu—Dry Cliff—Unit 1	<i>Schiedea trinervis</i>	<i>Phyllostegia hirsuta</i> <i>Schiedea trinervis</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>Alectryon macrococcus</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>Cenchrus agrimonioides</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 niuhauensis</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 mariversa</i> . <i>Schiedea hookeri</i> . <i>Schiedea obovata</i> .
	<i>Chamaesyce herbstii</i>	
	<i>Cyanea grimesiana</i> ssp. <i>obatae</i>	
	<i>Cyrtandra dentata</i>	
	<i>Kadua degeneri</i>	
	<i>Plantago princeps</i>	
	<i>Schiedea obovata</i>	

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
Oahu—Dry Cliff—Unit 2		<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>Abutilon sandwicense.</i>
	<i>Alectryon macrococcus</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>Dubautia herbstobatae.</i>
		<i>Eragrostis fosbergii.</i> <i>Flueggea neowawraea.</i> <i>Gouania meyenii.</i>
	<i>Gouania vitifolia</i>	<i>Gouania vitifolia.</i>
		<i>Isodendron laurifolium.</i> <i>Isodendron pyriformum.</i> <i>Kadua degeni.</i>
	<i>Kadua parvula</i>	<i>Kadua parvula.</i>
	<i>Lepidium arbuscula</i>	<i>Korthalsella degeneri.</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>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>
	<i>Schiedea hookeri</i>	<i>Schiedea hookeri.</i> <i>Schiedea obovata.</i> <i>Schiedea trinervis.</i> <i>Silene lanceolata.</i> <i>Silene perlmanii.</i>
	<i>Tetramolopium filiforme</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>Viola chamissoniana</i> ssp. <i>chamissoniana.</i>
	<i>Abutilon sandwicense</i>	<i>Abutilon sandwicense.</i>
	<i>Alectryon macrococcus</i>	<i>Achyranthes splendens</i> var. <i>rotundata.</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>	

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
Oahu—Dry Cliff—Unit 4	<i>Isodendron laurifolium</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>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 makahae</i>	<i>Melicope cornuta</i> var. <i>decurrens</i> .
	<i>Neraudia angulata</i>	<i>Melicope makahae</i> . <i>Melicope saint-johnii</i> .
	<i>Nototrichium humile</i>	<i>Neraudia angulata</i> .
	<i>Peucedanum sandwicense</i>	<i>Nototrichium humile</i> .
	<i>Phyllostegia kaalaensis</i>	<i>Peucedanum sandwicense</i> .
	<i>Pteralyxia macrocarpa</i>	<i>Phyllostegia kaalaensis</i> . <i>Plantago princeps</i> .
	<i>Schiedea hookeri</i>	<i>Pteralyxia macrocarpa</i> .
	<i>Silene lanceolata</i>	<i>Sanicula mariversa</i> . <i>Schiedea hookeri</i> .
	<i>Tetramolopium filiforme</i>	<i>Schiedea obovata</i> . <i>Schiedea trinervis</i> .
	<i>Viola chamissoniana</i> ssp. <i>chamissoniana</i>	<i>Silene lanceolata</i> . <i>Silene perlmanii</i> .
	.....	<i>Spermelepis hawaiiensis</i> .
	<i>Alectryon macrococcus</i>	<i>Tetramolopium filiforme</i> . <i>Tetramolopium lepidotum</i> ssp. <i>lepidotum</i> .
	<i>Chamaesyce kuwaleana</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>Alectryon macrococcus</i> . <i>Asplenium dielfalcatum</i> .
	<i>Chamaesyce kuwaleana</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>Chamaesyce kuwaleana</i>	<i>Cyrtandra dentata</i> . <i>Diella 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 mariversa</i> . <i>Schiedea hookeri</i> . <i>Schiedea obovata</i> . <i>Schiedea trinervis</i> . <i>Silene lanceolata</i> . <i>Silene perlmanii</i> .

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
Oahu—Dry Cliff—Unit 6	<i>Spermolepis hawaiiensis</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>Cenchrus agrimonioides</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 pyriformum</i> . <i>Kadua degeneri</i> . <i>Kadua parvula</i> . <i>Korthalsella degeneri</i> .
	<i>Diellia unisora</i>	<i>Lepidium arbuscula</i> .
	<i>Dracaena forbesii</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>Flueggea neowawraea</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 perlmantii</i> .
	<i>Lepidium arbuscula</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>Lobelia niihauensis</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 pyriformum</i> .
	<i>Melicope saint-johnii</i>	<i>Dracaena forbesii</i> .
	<i>Neraudia angulata</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 pyriformum</i> .
	<i>Plantago princeps</i>	<i>Plantago princeps</i> .
	<i>Silene perlmantii</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 perlmantii</i> .
	<i>Tetramolopium lepidotum</i> ssp. <i>lepidotum</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 pyriformum</i> .
	<i>Dracaena forbesii</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 pyriformum</i> .
	<i>Flueggea neowawraea</i>	<i>Flueggea neowawraea</i> .
	.....	<i>Flueggea neowawraea</i> .

Oahu—Dry Cliff—Unit 7a

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
	<i>Kadua parvula</i> <i>Melicope cornuta</i> var. <i>decurrens</i> <i>Melicope saint-johnii</i> <i>Plantago princeps</i> <i>Silene perlmanii</i> <i>Viola chamissoniana</i> ssp. <i>chamissoniana</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 niahauensis.</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 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 dieffalcatum.</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 pyriform.</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 niahauensis.</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 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>

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
Oahu—Dry Cliff—Unit 8	<p><i>Abutilon sandwicense</i></p> <p><i>Bonamia menziesii</i></p> <p><i>Dracaena forbesii</i></p> <p><i>Flueggea neowawraea</i></p> <p><i>Lobelia niihauensis</i></p> <p><i>Neraudia angulata</i></p> <p><i>Nototrichium humile</i></p>	<p><i>Viola chamissoniana</i> ssp. <i>chamissoniana</i>.</p> <p><i>Abutilon sandwicense</i>.</p> <p><i>Achyranthes splendens</i> var. <i>rotundata</i>.</p> <p><i>Alectryon macrococcus</i>.</p> <p><i>Asplenium djiefalcatum</i>.</p> <p><i>Bonamia menziesii</i>.</p> <p><i>Cenchrus agrimonioides</i>.</p> <p><i>Chamaesyce herbstii</i>.</p> <p><i>Chamaesyce kuwaleana</i>.</p> <p><i>Cyanea grimesiana</i> ssp. <i>obatae</i>.</p> <p><i>Cyrtandra dentata</i>.</p> <p><i>Diellia unisora</i>.</p> <p><i>Dracaena forbesii</i>.</p> <p><i>Dubautia herbstobatae</i>.</p> <p><i>Eragrostis fosbergii</i>.</p> <p><i>Flueggea neowawraea</i>.</p> <p><i>Gouania meyenii</i>.</p> <p><i>Gouania vitifolia</i>.</p> <p><i>Isodendron laurifolium</i>.</p> <p><i>Isodendron pyrifolium</i>.</p> <p><i>Kadua degeneri</i>.</p> <p><i>Kadua parvula</i>.</p> <p><i>Korthalsella degeneri</i>.</p> <p><i>Lepidium arbuscula</i>.</p> <p><i>Lipochaeta lobata</i> var. <i>leptophylla</i>.</p> <p><i>Lobelia niihauensis</i>.</p> <p><i>Melanthera tenuifolia</i>.</p> <p><i>Melicope cornuta</i> var. <i>decurrens</i>.</p> <p><i>Melicope makahae</i>.</p> <p><i>Melicope saint-johnii</i>.</p> <p><i>Neraudia angulata</i>.</p> <p><i>Nototrichium humile</i>.</p> <p><i>Peucedanum sandwicense</i>.</p> <p><i>Phyllostegia kaalaensis</i>.</p> <p><i>Plantago princeps</i>.</p> <p><i>Pteralyxia macrocarpa</i>.</p> <p><i>Sanicula mariversa</i>.</p> <p><i>Schiedea hookeri</i>.</p> <p><i>Schiedea obovata</i>.</p> <p><i>Schiedea trinervis</i>.</p> <p><i>Silene lanceolata</i>.</p> <p><i>Silene perlmanii</i>.</p> <p><i>Spermolepis hawaiiensis</i>.</p> <p><i>Tetramolopium filiforme</i>.</p> <p><i>Tetramolopium lepidotum</i> ssp. <i>lepidotum</i>.</p> <p><i>Viola chamissoniana</i> ssp. <i>chamissoniana</i>.</p>
Oahu—Wet Cliff—Unit 1	<p><i>Cyanea calycina</i></p> <p><i>Melicope christophersenii</i></p> <p><i>Schiedea trinervis</i></p>	<p><i>Cyanea acuminata</i></p> <p><i>Cyanea calycina</i></p> <p><i>Labordia cyrtandrae</i></p> <p><i>Lobelia oahuensis</i></p> <p><i>Melicope christophersenii</i></p> <p><i>Phyllostegia hirsuta</i></p> <p><i>Pteralyxia macrocarpa</i></p> <p><i>Schiedea hookeri</i></p> <p><i>Schiedea kaalae</i></p> <p><i>Schiedea trinervis</i></p>
Oahu—Wet Cliff—Unit 2	<p><i>Cyanea calycina</i></p> <p><i>Melicope christophersenii</i></p>	<p><i>Cyanea acuminata</i></p> <p><i>Cyanea calycina</i></p> <p><i>Labordia cyrtandrae</i></p> <p><i>Lobelia oahuensis</i></p> <p><i>Melicope christophersenii</i></p> <p><i>Phyllostegia hirsuta</i></p> <p><i>Pteralyxia macrocarpa</i></p> <p><i>Schiedea hookeri</i></p> <p><i>Schiedea kaalae</i></p> <p><i>Schiedea trinervis</i></p>
Oahu—Wet Cliff—Unit 3		

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

Unit name	Species occupied	Species unoccupied
Oahu—Wet Cliff—Unit 4		<i>Cyanea acuminata</i> <i>Cyanea calycina</i> <i>Labordia cyrtandrae</i> <i>Lobelia oahuensis</i> <i>Melicope christophersenii</i> <i>Phyllostegia hirsuta</i> <i>Pteralyxia macrocarpa</i> <i>Schiedea hookeri</i> <i>Schiedea kaalae</i> <i>Schiedea trinervis</i>
Oahu—Wet Cliff—Unit 5	<i>Phyllostegia hirsuta</i> <i>Schiedea hookeri</i>	<i>Cyanea acuminata</i> <i>Cyanea calycina</i> <i>Labordia cyrtandrae</i> <i>Lobelia oahuensis</i> <i>Melicope christophersenii</i> <i>Phyllostegia hirsuta</i> <i>Pteralyxia macrocarpa</i> <i>Schiedea hookeri</i> <i>Schiedea kaalae</i> <i>Schiedea trinervis</i>
Oahu—Wet Cliff—Unit 6	..... <i>Cyanea crispa</i> <i>Phlegmariurus nutans</i> <i>Pteralyxia macrocarpa</i> <i>Schiedea kaalae</i>	<i>Cyanea acuminata</i> <i>Cyanea calycina</i> <i>Labordia cyrtandrae</i> <i>Lobelia oahuensis</i> <i>Melicope christophersenii</i> <i>Phyllostegia hirsuta</i> <i>Pteralyxia macrocarpa</i> <i>Schiedea hookeri</i> <i>Schiedea kaalae</i> <i>Schiedea trinervis</i> <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 var. 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>Cyanea crispa</i> .....	..... <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>

(35) TABLE OF PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR OAHU—Continued

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

(j) *Plants on Oahu; Constituent elements*—(1) *Flowering plants*.

FAMILY AMARANTHACEAE

Achyranthes splendens var. *rotundata*
(round-leaved chaff flower)

Oahu—Coastal—Unit 1, Oahu—Coastal—Unit 13, Oahu—Coastal—Unit 14, Oahu—Coastal—Unit 15, 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—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit

7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Achyranthes splendens* var. *rotundata* on Oahu.

(i) In units Oahu—Coastal—Unit 1, Oahu—Coastal—Unit 13, Oahu—Coastal—Unit 14, and Oahu—Coastal—Unit 15, the physical and biological features of critical habitat are:

(A) Elevation: Less than 980 ft (300 m).

(B) Annual precipitation: Less than 20 in (50 cm).

(C) Substrate: Well-drained, calcareous, talus slopes; weathered clay soils; ephemeral pools; mudflats.

(D) Canopy: *Hibiscus*, *Myoporum*, *Santalum*, *Scaevola*.

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(E) Subcanopy: *Gossypium*, *Sida*, *Vitex*.

(F) Understory: *Eragrostis*, *Jacquemontia*, *Lyceum*, *Nama*, *Sesuvium*, *Sporobolus*, *Vigna*.

(ii) In 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, and Oahu—Lowland Dry—Unit 11, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Less than 50 in (130 cm).

(C) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava.

(D) Canopy: *Diospyros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.

(E) Subcanopy: *Chamaesyce*, *Dodonaea*, *Leptecophylla*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.

(F) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Plumbago*, *Sicyos*, *Sida*, *Waltheria*.

(iii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Nototrichium humile (KULUI)

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—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a,

Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Nototrichium humile* on Oahu.

(i) In units 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, and Oahu—Lowland Dry—Unit 11, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Less than 50 in (130 cm).

(C) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava.

(D) Canopy: *Diospyros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.

(E) Subcanopy: *Chamaesyce*, *Dodonaea*, *Leptecophylla*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.

(F) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Plumbago*, *Sicyos*, *Sida*, *Waltheria*.

(ii) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(iii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

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(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma, Chamaesyce, Diospyros, Dodonaea.*

(F) Understory: *Bidens, Eragrostis, Melanthera, Schiedea.*

FAMILY APIACEAE

Peucedanum sandwicense (MAKOU)

Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Peucedanum sandwicense* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Unrestricted.

(ii) Annual precipitation: Less than 75 in (190 cm).

(iii) Substrate: Greater than 65 degree slope, rocky talus.

(iv) Canopy: None.

(v) Subcanopy: *Antidesma, Chamaesyce, Diospyros, Dodonaea.*

(vi) Understory: *Bidens, Eragrostis, Melanthera, Schiedea.*

Sanicula mariversa (NCN)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Sanicula mariversa* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia, Diospyros, Metrosideros, Myrsine, Pouteria, Santalum.*

(E) Subcanopy: *Dodonaea, Freycinetia, Leptecophylla, Melanthera, Osteomeles, Pleomele, Psydrax.*

(F) Understory: *Carex, Dicranopteris, Diplazium, Elaphoglossum, Peperomia.*

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma, Chamaesyce, Diospyros, Dodonaea.*

(F) Understory: *Bidens, Eragrostis, Melanthera, Schiedea.*

Sanicula purpurea (NCN)

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—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Sanicula purpurea* on Oahu.

(i) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

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(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(ii) In units Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava, bogs.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Ferns, Bryophytes, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Spermolepis hawaiiensis (NCN)

Oahu—Lowland Dry—Unit 1, Oahu—Lowland Dry—Unit 2, Oahu—Lowland Dry—Unit 6, Oahu—Lowland Dry—Unit 7, Oahu—Lowland Dry—Unit 8, Oahu—Lowland Dry—Unit 9, Oahu—Lowland Dry—Unit 10, Oahu—Lowland Dry—Unit 11, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Spermolepis hawaiiensis* on Oahu.

(i) In units Oahu—Lowland Dry—Unit 1, Oahu—Lowland Dry—Unit 2, Oahu—Lowland Dry—Unit 6, Oahu—Lowland Dry—Unit 7, Oahu—Lowland Dry—Unit 8, Oahu—Lowland Dry—Unit 9, Oahu—Lowland Dry—Unit 10, and Oahu—Lowland Dry—Unit 11, the physical or biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Less than 50 in (130 cm).

(C) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava.

(D) Canopy: *Diospyros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.

(E) Subcanopy: *Chamaesyce*, *Dodonaea*, *Leptecophylla*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.

(F) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Plumbago*, *Sicyos*, *Sida*, *Waltheria*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

FAMILY APOCYNACEAE

Pteralyxia macrocarpa (KAULU)

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 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, Oahu—Dry Cliff—Unit 8, Oahu—Wet Cliff—Unit 1, Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, Oahu—Wet Cliff—Unit 4, Oahu—Wet Cliff—Unit 5, Oahu—Wet

Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Pteralyxia macrocarpa* on Oahu.

(i) In units 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, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(iii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4,

Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

(iv) In units Oahu—Wet Cliff—Unit 1, Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, Oahu—Wet Cliff—Unit 4, Oahu—Wet Cliff—Unit 5, Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Ferns, Bryophytes, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

FAMILY ARALIACEAE

Tetraplasandra gymnocarpa (OHE OHE)

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—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Tetraplasandra gymnocarpa* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 4, Oahu—Lowland Mesic—Unit 5, Oahu—Lowland Mesic—Unit 6, and

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Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepta*.

(iii) In units Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Ferns, Bryophytes, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Tetraplasandra lydgatei (NCN)

Oahu—Lowland Mesic—Unit 4, Oahu—Lowland Mesic—Unit 5, Oahu—Lowland Mesic—Unit 6, and Oahu—Lowland Mesic—Unit 7, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Tetraplasandra lydgatei* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Less than 3,300 ft (1,000 m).

(ii) Annual precipitation: 50 to 75 in (130 to 190 cm).

(iii) Substrate: Shallow soils, little to no herbaceous layer.

(iv) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(v) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(vi) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

FAMILY ASPARAGACEAE

Dracaena forbesii (HALA PEPE)

Oahu—Lowland Dry—Unit 1, Oahu—Lowland Dry—Unit 2, 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—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Dracaena forbesii* on Oahu.

(i) In units Oahu—Lowland Dry—Unit 1 and Oahu—Lowland Dry—Unit 2, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Less than 50 in (130 cm).

(C) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava.

(D) Canopy: *Diospyros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.

(E) Subcanopy: *Chamaesyce*, *Dodonaea*, *Leptecophylla*, *Osteomeles*, *Psydrax Scaevola*, *Wikstroemia*.

(F) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Plumbago*, *Sicyos*, *Sida*, *Waltheria*.

(ii) In units 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, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(iii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

FAMILY ASTERACEAE

Bidens amplexans (KOOKOOLAU)

Oahu—Coastal—Unit 1, Oahu—Coastal—Unit 13, Oahu—Coastal—Unit 14, Oahu—Coastal—Unit 15, 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, and Oahu—Lowland Dry—Unit 11, identified in the

legal descriptions in paragraph (i) of this section, constitute critical habitat for *Bidens amplexans* on Oahu.

(i) In units Oahu—Coastal—Unit 1, Oahu—Coastal—Unit 13, Oahu—Coastal—Unit 14, and Oahu—Coastal—Unit 15, the physical and biological features of critical habitat are:

(A) Elevation: Less than 980 ft (300 m).

(B) Annual precipitation: Less than 20 in (50 cm).

(C) Substrate: Well-drained, calcareous, talus slopes; weathered clay soils; ephemeral pools; mudflats.

(D) Canopy: *Hibiscus*, *Myoporum*, *Santalum*, *Scaevola*.

(E) Subcanopy: *Gossypium*, *Sida*, *Vitex*.

(F) Understory: *Eragrostis*, *Jacquemontia*, *Lyceum*, *Nama*, *Sesuvium*, *Sporobolus*, *Vigna*.

(ii) In units 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, and Oahu—Lowland Dry—Unit 11, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Less than 50 in (130 cm).

(C) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava.

(D) Canopy: *Diospyros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.

(E) Subcanopy: *Chamaesyce*, *Dodonaea*, *Leptecophylla*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.

(F) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Plumbago*, *Sicyos*, *Sida*, *Waltheria*.

Dubautia herbstobatae (NAENAE)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Dubautia herbstobatae* on Oahu.

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(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodoniaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodoniaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Hesperomannia arborescens (NCN)

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, and Oahu—Lowland Wet—Unit 16, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Hesperomannia arborescens* on Oahu.

(i) In units 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, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodoniaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepta*.

Hesperomannia arbuscula (NCN)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, and Oahu—Lowland Wet—Unit 5, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Hesperomannia arbuscula* on Oahu.

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(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, and Oahu—Lowland Wet—Unit 5, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microleptia*.

Lipochaeta lobata var. *leptophylla*
(NEHE)

Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Lipochaeta lobata* var. *leptophylla* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Unrestricted.

(ii) Annual precipitation: Less than 75 in (190 cm).

(iii) Substrate: Greater than 65 degree slope, rocky talus.

(iv) Canopy: None.

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(v) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(vi) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Melanthera tenuifolia (NEHE)

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—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Melanthera tenuifolia* on Oahu.

(i) In units 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, and Oahu—Lowland Dry—Unit 11, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Less than 50 in (130 cm).

(C) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava.

(D) Canopy: *Diospyros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.

(E) Subcanopy: *Chamaesyce*, *Dodonaea*, *Leptecophylla*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.

(F) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Plumbago*, *Sicyos*, *Sida*, *Waltheria*.

(ii) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psyrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(iii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Tetramolopium filiforme (NCN)

Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Tetramolopium filiforme* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Unrestricted.

(ii) Annual precipitation: Less than 75 in (190 cm).

(iii) Substrate: Greater than 65 degree slope, rocky talus.

(iv) Canopy: None.

(v) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(vi) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Tetramolopium lepidotum ssp. *lepidotum*
(NCN)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section,

constitute critical habitat for *Tetramolopium lepidotum* ssp. *lepidotum* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psyrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

FAMILY BRASSICACEAE

Lepidium arbuscula (ANAUNAU)

Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Lepidium arbuscula* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Unrestricted.

(ii) Annual precipitation: Less than 75 in (190 cm).

(iii) Substrate: Greater than 65 degree slope, rocky talus.

(iv) Canopy: None.

(v) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(vi) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

FAMILY CAMPANULACEAE

Cyanea acuminata (HAHA)

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 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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—Montane Wet—Unit 1, Oahu—Wet Cliff—Unit 1, Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, Oahu—Wet Cliff—Unit 4, Oahu—Wet Cliff—Unit 5, Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea acuminata* on Oahu.

(i) In units 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, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(iii) In unit Oahu—Montane Wet—Unit 1, the physical and biological features of critical habitat are:

(A) Elevation: 3,300 to 6,600 ft (1,000 to 2,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Well-developed soils, montane bogs.

(D) Canopy: *Acacia*, *Charpentiera*, *Cheirodendron*, *Metrosideros*.

(E) Subcanopy: *Broussaisia*, *Cibotium*, *Eurya*, *Ilex*, *Myrsine*.

(F) Understory: Ferns, *Carex*, *Coprosma*, *Leptecophylla*, *Oreobolus*, *Rhynchospora*, *Vaccinium*.

(iv) In units Oahu—Wet Cliff—Unit 1, Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, Oahu—Wet Cliff—Unit 4, Oahu—Wet Cliff—Unit 5, Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

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(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Ferns, Bryophytes, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Cyanea calycina (HAHA)

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 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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—Montane Wet—Unit 1, Oahu—Wet Cliff—Unit 1, Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, Oahu—Wet Cliff—Unit 4, Oahu—Wet Cliff—Unit 5, Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea calycina* on Oahu.

(i) In units 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, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(iii) In unit Oahu—Montane Wet—Unit 1, the physical and biological features of critical habitat are:

(A) Elevation: 3,300 to 6,600 ft (1,000 to 2,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Well-developed soils, montane bogs.

(D) Canopy: *Acacia*, *Charpentiera*, *Cheirodendron*, *Metrosideros*.

(E) Subcanopy: *Broussaisia*, *Cibotium*, *Eurya*, *Ilex*, *Myrsine*.

(F) Understory: Ferns, *Carex*, *Coprosma*, *Leptecophylla*, *Oreobolus*, *Rhynchospora*, *Vaccinium*.

(iv) In units Oahu—Wet Cliff—Unit 1, Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, Oahu—Wet Cliff—Unit 4, Oahu—Wet Cliff—Unit 5, Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

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(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Cyanea crispa (NCN)

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—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea crispa* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 4, Oahu—Lowland Mesic—Unit 5, Oahu—Lowland Mesic—Unit 6, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units 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, and Oahu—Lowland

Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(iii) In units Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Cyanea grimesiana ssp. *grimesiana* (HAHA)

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 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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, and Oahu—Lowland Wet—Unit 16, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea grimesiana* ssp. *grimesiana* on Oahu.

(i) In units 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, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

Cyanea grimesiana ssp. *obatae* (HAHA)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—

Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea grimesiana* ssp. *obatae* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, and Oahu—Lowland Wet—Unit 5, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(iii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

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(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Cyanea humboldtiana (HAHA)

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—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea humboldtiana* on Oahu.

(i) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(ii) In units Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

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(F) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Cyanea koolauensis (HAHA)

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, and Oahu—Lowland Wet—Unit 16, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea koolauensis* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Less than 3,300 ft (1,000 m).

(ii) Annual precipitation: Greater than 75 in (190 cm).

(iii) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(iv) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(v) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(vi) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

Cyanea lanceolata (HAHA)

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, and Oahu—Lowland Wet—Unit 16, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea lanceolata* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 4, Oahu—Lowland Mesic—Unit 5, Oahu—Lowland Mesic—Unit 6, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

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(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepta*.

Cyanea longiflora (HAHA)

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, and Oahu—Lowland Mesic—Unit 7, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea longiflora* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Less than 3,300 ft (1,000 m).

(ii) Annual precipitation: 50 to 75 in (130 to 190 cm).

(iii) Substrate: Shallow soils, little to no herbaceous layer.

(iv) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(v) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(vi) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

Cyanea pinnatifida (HAHA)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea pinnatifida* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Less than 3,300 ft (1,000 m).

(ii) Annual precipitation: 50 to 75 in (130 to 190 cm).

(iii) Substrate: Shallow soils, little to no herbaceous layer.

(iv) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(v) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(vi) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

Cyanea purpurellifolia (HAHA)

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—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea purpurellifolia* on Oahu.

(i) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

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(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(ii) In units Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical or biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Cyanea st.-johnii (HAHA)

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—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea st.-johnii* on Oahu.

(i) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(ii) In units Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Cyanea superba (NCN)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea superba* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Less than 3,300 ft (1,000 m).

(ii) Annual precipitation: 50 to 75 in (130 to 190 cm).

(iii) Substrate: Shallow soils, little to no herbaceous layer.

(iv) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(v) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(vi) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

Cyanea truncata (HAHA)

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—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea truncata* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 4, Oahu—Lowland Mesic—Unit 5, Oahu—Lowland Mesic—Unit 6, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(iii) In units Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—

Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: *Bryophytes*, *Ferns*, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Delissea subcordata (OHA)

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, and Oahu—Lowland Mesic—Unit 7, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Delissea subcordata* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Less than 3,300 ft (1,000 m).

(ii) Annual precipitation: 50 to 75 in (130 to 190 cm).

(iii) Substrate: Shallow soils, little to no herbaceous layer.

(iv) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(v) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(vi) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

Lobelia gaudichaudii ssp. *koolauensis*
(NCN)

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, and Oahu—Lowland Wet—Unit 16, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Lobelia gaudichaudii* ssp. *koolauensis* on Oahu. Within these units, the physical and biological features of critical habitat are:

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- (i) Elevation: Less than 3,300 ft (1,000 m).
- (ii) Annual precipitation: Greater than 75 in (190 cm).
- (iii) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.
- (iv) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.
- (v) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.
- (vi) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepta*.

Lobelia monostachya (NCN)

Oahu—Lowland Mesic—Unit 4, Oahu—Lowland Mesic—Unit 5, Oahu—Lowland Mesic—Unit 6, and Oahu—Lowland Mesic—Unit 7, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Lobelia monostachya* on Oahu. Within these units, the physical and biological features of critical habitat are:

- (i) Elevation: Less than 3,300 ft (1,000 m).
- (ii) Annual precipitation: 50 to 75 in (130 to 190 cm).
- (iii) Substrate: Shallow soils, little to no herbaceous layer.
- (iv) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.
- (v) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.
- (vi) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

Lobelia niihauensis (NCN)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Lobelia niihauensis* on Oahu.

- (i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

- (A) Elevation: Less than 3,300 ft (1,000 m).
- (B) Annual precipitation: 50 to 75 in (130 to 190 cm).
- (C) Substrate: Shallow soils, little to no herbaceous layer.
- (D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.
- (E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Psydrax*, *Pleomele*.
- (F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

- (A) Elevation: Unrestricted.
- (B) Annual precipitation: Less than 75 in (190 cm).
- (C) Substrate: Greater than 65 degree slope, rocky talus.
- (D) Canopy: None.
- (E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.
- (F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Lobelia oahuensis (NCN)

Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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—Montane Wet—Unit 1, Oahu—Wet Cliff—Unit 1, Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, Oahu—Wet Cliff—Unit 4, Oahu—Wet Cliff—Unit 5, Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Lobelia oahuensis* on Oahu.

- (i) In units Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2,

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Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepidia*.

(ii) In unit Oahu—Montane Wet—Unit 1, the physical and biological features of critical habitat are:

(A) Elevation: 3,300 to 6,600 ft (1,000 to 2,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Well-developed soils, montane bogs.

(D) Canopy: *Acacia*, *Charpentiera*, *Cheirodendron*, *Metrosideros*.

(E) Subcanopy: *Broussaisia*, *Cibotium*, *Eurya*, *Ilex*, *Myrsine*.

(F) Understory: *Ferns*, *Carex*, *Coprosma*, *Leptecophylla*, *Oreobolus*, *Rhynchospora*, *Vaccinium*.

(iii) In units Oahu—Wet Cliff—Unit 1, Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, Oahu—Wet Cliff—Unit 4, Oahu—Wet Cliff—Unit 5, Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: *Bryophytes*, *Ferns*, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Trematolobelia singularis (NCN)

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—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Trematolobelia singularis* on Oahu.

(i) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepidia*.

(ii) In units Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical or biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: *Bryophytes*, *Ferns*, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

FAMILY CARYOPHYLLACEAE

Schiedea hookeri (NCN)

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 Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, Oahu—Dry Cliff—Unit 8, Oahu—Wet Cliff—Unit 1, Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, Oahu—Wet Cliff—Unit 4, and Oahu—Wet Cliff—Unit 5, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Schiedea hookeri* on Oahu.

(i) In units 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, and Oahu—Lowland Dry—Unit 11, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Less than 50 in (130 cm).

(C) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava.

(D) Canopy: *Diospyros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.

(E) Subcanopy: *Chamaesyce*, *Dodonaea*, *Leptecophylla*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.

(F) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Sicyos*.

(ii) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(iii) In units Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, and Oahu—Lowland Wet—Unit 5, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(iv) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

(v) In units Oahu—Wet Cliff—Unit 1, Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, Oahu—Wet Cliff—Unit 4, and Oahu—Wet Cliff—Unit 5, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

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(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Schiedea kaalae (NCN)

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 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, Oahu—Wet Cliff—Unit 1, Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, Oahu—Wet Cliff—Unit 4, Oahu—Wet Cliff—Unit 5, Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Schiedea kaalae* on Oahu.

(i) In units 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, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, and Oahu—Lowland Wet—Unit 5, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(iii) In units Oahu—Wet Cliff—Unit 1, Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, Oahu—Wet Cliff—Unit 4, Oahu—Wet Cliff—Unit 5, Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Schiedea kealiae (MAOLIOLI)

Oahu—Coastal—Unit 1, Oahu—Coastal—Unit 13, Oahu—Coastal—Unit 14, Oahu—Coastal—Unit 15, 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, and Oahu—Lowland Dry—Unit 11, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Schiedea kealiae* on Oahu.

(i) In unit Oahu—Coastal—Unit 1, Oahu—Coastal—Unit 13, Oahu—Coastal—Unit 14, and Oahu—Coastal—Unit 15, the physical and biological features of critical habitat are:

(A) Elevation: Less than 980 ft (300 m).

(B) Annual precipitation: Less than 20 in (50 cm).

(C) Substrate: Well-drained, calcareous, talus slopes; weathered clay soils; ephemeral pools; mudflats.

(D) Canopy: *Hibiscus*, *Myoporum*, *Santalum*, *Scaevola*.

(E) Subcanopy: *Gossypium*, *Sida*, *Vitex*.

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(F) Understory: *Eragrostis*, *Jacquemontia*, *Lyceum*, *Nama*, *Sesuvium*, *Sporobolus*, *Vigna*.

(ii) In units 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, and Oahu—Lowland Dry—Unit 11, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Less than 50 in (130 cm).

(C) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava.

(D) Canopy: *Diospyros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.

(E) Subcanopy: *Chamaesyce*, *Dodonaea*, *Leptecophylla*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.

(F) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Plumbago*, *Sicyos*, *Sida*, *Waltheria*.

Schiedea nuttallii (NCN)

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, and Oahu—Lowland Mesic—Unit 7, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Schiedea nuttallii* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Less than 3,300 ft (1,000 m).

(ii) Annual precipitation: 50 to 75 in (130 to 190 cm).

(iii) Substrate: Shallow soils, little to no herbaceous layer.

(iv) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(v) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(vi) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

Schiedea obovata (NCN)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Dry

Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Schiedea obovata* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Schiedea trinervis (NCN)

Oahu—Montane Wet—Unit 1, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, Oahu—Dry Cliff—Unit 8, Oahu—Wet Cliff—Unit 1, Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, Oahu—Wet Cliff—Unit 4, and Oahu—Wet Cliff—Unit 5, identified in the legal descriptions in paragraph

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(i) of this section, constitute critical habitat for *Schiedea trinervis* on Oahu.

(i) In unit Oahu—Montane Wet—Unit 1, the physical and biological features of critical habitat are:

(A) Elevation: 3,300 to 6,600 ft (1,000 to 2,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Well-developed soils, montane bogs.

(D) Canopy: *Acacia*, *Charpentiera*, *Cheirodendron*, *Metrosideros*.

(E) Subcanopy: *Broussaisia*, *Cibotium*, *Eurya*, *Ilex*, *Myrsine*.

(F) Understory: Ferns, *Carex*, *Coprosma*, *Leptecophylla*, *Oreobolus*, *Rhynchospora*, *Vaccinium*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

(iii) In units Oahu—Wet Cliff—Unit 1, Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, Oahu—Wet Cliff—Unit 4, and Oahu—Wet Cliff—Unit 5, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Silene lanceolata (NCN)

Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a,

Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Silene lanceolata* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Unrestricted.

(ii) Annual precipitation: Less than 75 in (190 cm).

(iii) Substrate: Greater than 65 degree slope, rocky talus.

(iv) Canopy: None.

(v) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(vi) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Silene perlmanii (NCN)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Silene perlmanii* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical or biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

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(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

FAMILY CONVULVACEAE

Bonamia menziesii (NCN)

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—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Bonamia menziesii* on Oahu.

(i) In units 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, and Oahu—Lowland Dry—Unit 11, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Less than 50 in (130 cm).

(C) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava.

(D) Canopy: *Diospyros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.

(E) Subcanopy: *Chamaesyce*, *Dodonaea*, *Leptecophylla*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.

(F) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Plumbago*, *Sicyos*, *Sida*, *Waltheria*.

(ii) In units 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, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(iii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

FAMILY CYPERACEAE

Cyperus pennatiformis (NCN)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyperus pennatiformis* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Less than 3,300 ft (1,000 m).

(ii) Annual precipitation: 50 to 75 in (130 to 190 cm).

(iii) Substrate: Shallow soils, little to no herbaceous layer.

(iv) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(v) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(vi) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

Cyperus trachysanthos (PUUKAA)

Oahu—Coastal—Unit 9, Oahu—Coastal—Unit 11, Oahu—Coastal—Unit 12, and Oahu—Lowland Dry—Unit 7, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyperus trachysanthos* on Oahu.

(i) In units Oahu—Coastal—Unit 9, Oahu—Coastal—Unit 11, and Oahu—Coastal—Unit 12, the physical and biological features of critical habitat are:

(A) Elevation: Less than 980 ft (300 m).

(B) Annual precipitation: Less than 20 in (50 cm).

(C) Substrate: Well-drained, calcareous, talus slopes; weathered clay soils; seasonal wetlands; mudflats.

(D) Canopy: *Hibiscus*, *Myoporum*, *Santalum*, *Scaevola*.

(E) Subcanopy: *Gossypium*, *Sida*, *Vitex*.

(F) Understory: *Eragrostis*, *Jacquemontia*, *Lyceum*, *Nama*, *Sesuvium*, *Sporobolus*, *Vigna*.

(ii) In unit Oahu—Lowland Dry—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Less than 50 in (130 cm).

(C) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava, seasonal wetlands.

(D) Canopy: *Diospyros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.

(E) Subcanopy: *Chamaesyce*, *Dodonaea*, *Leptecophylla*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.

(F) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Plumbago*, *Sicyos*, *Sida*, *Waltheria*.

FAMILY EUPHORBIACEAE

Chamaesyce celastroides var. *kaenana*
(AKOKO)

Oahu—Coastal—Unit 1, Oahu—Coastal—Unit 13, Oahu—Coastal—Unit 14, Oahu—Coastal—Unit 15, Oahu—Low-

land 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, and Oahu—Lowland Mesic—Unit 7, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Chamaesyce celastroides* var. *kaenana* on Oahu.

(i) In units Oahu—Coastal—Unit 1, Oahu—Coastal—Unit 13, Oahu—Coastal—Unit 14, and Oahu—Coastal—Unit 15, the physical and biological features of critical habitat are:

(A) Elevation: Less than 980 ft (300 m).

(B) Annual precipitation: Less than 20 in (50 cm).

(C) Substrate: Well-drained, calcareous, talus slopes; weathered clay soils; ephemeral pools; mudflats.

(D) Canopy: *Hibiscus*, *Myoporum*, *Santalum*, *Scaevola*.

(E) Subcanopy: *Gossypium*, *Sida*, *Vitex*.

(F) Understory: *Eragrostis*, *Jacquemontia*, *Lyceum*, *Nama*, *Sesuvium*, *Sporobolus*, *Vigna*.

(ii) In units 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, and Oahu—Lowland Dry—Unit 11, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Less than 50 in (130 cm).

(C) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava.

(D) Canopy: *Diospyros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.

(E) Subcanopy: *Chamaesyce*, *Dodonaea*, *Leptecophylla*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.

(F) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Plumbago*, *Sicyos*, *Sida*, *Waltheria*.

(iii) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2,

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Oahu—Lowland Mesic—Unit 3, Oahu—Lowland Mesic—Unit 4, Oahu—Lowland Mesic—Unit 5, Oahu—Lowland Mesic—Unit 6, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

- (A) Elevation: Less than 3,300 ft (1,000 m).
- (B) Annual precipitation: 50 to 75 in (130 to 190 cm).
- (C) Substrate: Shallow soils, little to no herbaceous layer.
- (D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.
- (E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.
- (F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

Chamaesyce deppeana (AKOKO)

Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Chamaesyce deppeana* on Oahu. Within these units, the physical and biological features of critical habitat are:

- (i) Elevation: Unrestricted.
- (ii) Annual precipitation: Greater than 75 in (190 cm).
- (iii) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.
- (iv) Canopy: None.
- (v) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.
- (vi) Understory: *Bryophytes*, *Ferns*, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Chamaesyce herbstii (AKOKO)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Chamaesyce herbstii* on Oahu.

- (i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the

physical and biological features of critical habitat are:

- (A) Elevation: Less than 3,300 ft (1,000 m).
- (B) Annual precipitation: 50 to 75 in (130 to 190 cm).
- (C) Substrate: Shallow soils, little to no herbaceous layer.
- (D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.
- (E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.
- (F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

- (A) Elevation: Unrestricted.
- (B) Annual precipitation: Less than 75 in (190 cm).
- (C) Substrate: Greater than 65 degree slope, rocky talus.
- (D) Canopy: None.
- (E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.
- (F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Chamaesyce kuwaleana (AKOKO)

Oahu—Coastal—Unit 2, Oahu—Coastal—Unit 3, Oahu—Coastal—Unit 4, Oahu—Coastal—Unit 5, Oahu—Coastal—Unit 6, Oahu—Coastal—Unit 7, Oahu—Coastal—Unit 8, Oahu—Coastal—Unit 9, Oahu—Coastal—Unit 10, Oahu—Coastal—Unit 11, Oahu—Coastal—Unit 12, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Chamaesyce kuwaleana* on Oahu.

- (i) In units Oahu—Coastal—Unit 2, Oahu—Coastal—Unit 3, Oahu—Coastal—Unit 4, Oahu—Coastal—Unit 5, Oahu—Coastal—Unit 6, Oahu—Coastal—Unit 7, Oahu—Coastal—Unit 8,

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Oahu—Coastal—Unit 9, Oahu—Coastal—Unit 10, Oahu—Coastal—Unit 11, and Oahu—Coastal—Unit 12, the physical and biological features of critical habitat are:

(A) Elevation: Less than 980 ft (300 m).

(B) Annual precipitation: Less than 20 in (50 cm).

(C) Substrate: Well-drained, calcareous, talus slopes; weathered clay soils; ephemeral pools; mudflats.

(D) Canopy: *Hibiscus*, *Myoporum*, *Santalum*, *Scaevola*.

(E) Subcanopy: *Gossypium*, *Sida*, *Vitex*.

(F) Understory: *Eragrostis*, *Jacquemontia*, *Lyceum*, *Nama*, *Sesuvium*, *Sporobolus*, *Vigna*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Chamaesyce rockii (AKOKO)

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—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Chamaesyce rockii* on Oahu.

(i) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepidia*.

(ii) In units Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Euphorbia haeleleana (AKOKO)

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, and Oahu—Lowland Mesic—Unit 3, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Euphorbia haeleleana* on Oahu.

(i) In units 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, and Oahu—Lowland Dry—Unit 11, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Less than 50 in (130 cm).

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(C) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava.

(D) Canopy: *Diospyros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.

(E) Subcanopy: *Chamaesyce*, *Dodonaea*, *Leptecophylla*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.

(F) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Plumbago*, *Sicyos*, *Sida*, *Waltheria*.

(ii) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

Euphorbia skottsbergii var. *skottsbergii*
(AKOKO)

Oahu—Lowland Dry—Unit 8, Oahu—Lowland Dry—Unit 9, Oahu—Lowland Dry—Unit 10, and Oahu—Lowland Dry—Unit 11, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Euphorbia skottsbergii* var. *skottsbergii* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Less than 3,300 ft (1,000 m).

(ii) Annual precipitation: Less than 50 in (130 cm).

(iii) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava.

(iv) Canopy: *Diospyros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.

(v) Subcanopy: *Chamaesyce*, *Dodonaea*, *Leptecophylla*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.

(vi) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Chenopodium*, *Nephrolepis*,

Peperomia, *Plumbago*, *Sicyos*, *Sida*, *Waltheria*.

(vii) Coral outcrop substrate.

Flueggea neowawraea (MEHAMEHAME)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Flueggea neowawraea* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

FAMILY FABACEAE

Sesbania tomentosa (OHAI)

Oahu—Coastal—Unit 1, Oahu—Coastal—Unit 2, Oahu—Coastal—Unit 3, Oahu—Coastal—Unit 4, Oahu—Coastal—Unit 5, Oahu—Coastal—Unit 6, Oahu—Coastal—Unit 7, Oahu—Coastal—Unit 8, Oahu—Coastal—Unit 9, Oahu—Coastal—Unit 10, Oahu—Coastal—Unit 11, Oahu—Coastal—Unit 12, Oahu—Coastal—Unit 13, Oahu—Coastal—Unit 14, and Oahu—Coastal—Unit 15, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Sesbania tomentosa* on Oahu. Within these units, the physical and biological features of critical habitat are:

- (i) Elevation: Less than 980 ft (300 m).
- (ii) Annual precipitation: Less than 20 in (50 cm).
- (iii) Substrate: Well-drained, calcareous, talus slopes; weathered clay soils; ephemeral pools; mudflats.
- (iv) Canopy: *Hibiscus*, *Myoporum*, *Santalum*, *Scaevola*.
- (v) Subcanopy: *Gossypium*, *Sida*, *Vitex*.
- (vi) Understory: *Eragrostis*, *Jacquemontia*, *Lyceum*, *Nama*, *Sesuvium*, *Sporobolus*, *Vigna*.

Vigna o-wahuensis (NCN)

Oahu—Coastal—Unit 1, Oahu—Coastal—Unit 2, Oahu—Coastal—Unit 3, Oahu—Coastal—Unit 4, Oahu—Coastal—Unit 5, Oahu—Coastal—Unit 6, Oahu—Coastal—Unit 7, Oahu—Coastal—Unit 8, Oahu—Coastal—Unit 9, Oahu—Coastal—Unit 10, Oahu—Coastal—Unit 11, Oahu—Coastal—Unit 12, Oahu—Coastal—Unit 13, Oahu—Coastal—Unit 14, and Oahu—Coastal—Unit 15, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Vigna o-wahuensis* on Oahu. Within these units, the physical and biological features of critical habitat are:

- (i) Elevation: Less than 980 ft (300 m).
- (ii) Annual precipitation: Less than 20 in (50 cm).
- (iii) Substrate: Well-drained, calcareous, talus slopes; weathered clay soils; ephemeral pools; mudflats.
- (iv) Canopy: *Hibiscus*, *Myoporum*, *Santalum*, *Scaevola*.
- (v) Subcanopy: *Gossypium*, *Sida*, *Vitex*.

- (vi) Understory: *Eragrostis*, *Jacquemontia*, *Lyceum*, *Nama*, *Sesuvium*, *Sporobolus*, *Vigna*.

FAMILY GENTIANACEAE

Schenkia sebaeoides (AWIWI)

Oahu—Coastal—Unit 1, Oahu—Coastal—Unit 2, Oahu—Coastal—Unit 3, Oahu—Coastal—Unit 4, Oahu—Coastal—Unit 5, Oahu—Coastal—Unit 6, Oahu—Coastal—Unit 7, Oahu—Coastal—Unit 8, Oahu—Coastal—Unit 9, Oahu—Coastal—Unit 10, Oahu—Coastal—Unit 11, Oahu—Coastal—Unit 12, Oahu—Coastal—Unit 13, Oahu—Coastal—Unit 14, and Oahu—Coastal—Unit 15, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Schenkia sebaeoides* on Oahu. Within these units, the physical and biological features of critical habitat are:

- (i) Elevation: Less than 980 ft (300 m).
- (ii) Annual precipitation: Less than 20 in (50 cm).
- (iii) Substrate: Well-drained, calcareous, talus slopes; weathered clay soils; ephemeral pools; mudflats.
- (iv) Canopy: *Hibiscus*, *Myoporum*, *Santalum*, *Scaevola*.
- (v) Subcanopy: *Gossypium*, *Sida*, *Vitex*.
- (vi) Understory: *Eragrostis*, *Jacquemontia*, *Lyceum*, *Nama*, *Sesuvium*, *Sporobolus*, *Vigna*.

FAMILY GESNERIACEAE

Cyrtandra dentata (HAIWALE)

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 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyrtandra dentata* on Oahu.

(i) In units 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, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(iii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Cyrtandra gracilis (HAIWALE)

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, and Oahu—Lowland Wet—Unit 16, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyrtandra gracilis* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Less than 3,300 ft (1,000 m).

(ii) Annual precipitation: Greater than 75 in (190 cm).

(iii) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(iv) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(v) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(vi) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

Cyrtandra kaulantha (HAIWALE)

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—

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Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyrtandra kaulantha* on Oahu.

(i) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(ii) In units Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Cyrtandra polyantha (HAIWALE)

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, and Oahu—Low-

land Wet—Unit 16, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyrtandra polyantha* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 4, Oahu—Lowland Mesic—Unit 5, Oahu—Lowland Mesic—Unit 6, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

Cyrtandra sessilis (HAIWALE)

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—

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Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyrtandra sessilis* Oahu.

(i) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils, lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(ii) In units Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Cyrtandra subumbellata (HAIWALE)

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—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in

paragraph (i) of this section, constitute critical habitat for *Cyrtandra subumbellata* on Oahu.

(i) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(ii) In units Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Cyrtandra viridiflora (HAIWALE)

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—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyrtandra viridiflora* on Oahu.

(i) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(ii) In units Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptocophylla*, *Metrosideros*.

(F) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Cyrtandra waiolani (HAIWALE)

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, and Oahu—Lowland Wet—Unit 16, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyrtandra waiolani* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Less than 3,300 ft (1,000 m).

(ii) Annual precipitation: Greater than 75 in (190 cm).

(iii) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(iv) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(v) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(vi) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

FAMILY LAMIACEAE

Phyllostegia hirsuta (NCN)

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 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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—Montane Wet—Unit 1, Oahu—Wet Cliff—Unit 1, Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, Oahu—Wet Cliff—Unit 4, Oahu—Wet Cliff—Unit 5, Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Phyllostegia hirsuta* on Oahu.

(i) In units 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, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

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(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepis*.

(iii) In unit Oahu—Montane Wet—Unit 1, the physical and biological features of critical habitat are:

(A) Elevation: 3,300 to 6,600 ft (1,000 to 2,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Well-developed soils, montane bogs.

(D) Canopy: *Acacia*, *Charpentiera*, *Cheirodendron*, *Metrosideros*.

(E) Subcanopy: *Broussaisia*, *Cibotium*, *Eurya*, *Ilex*, *Myrsine*.

(F) Understory: Ferns, *Carex*, *Coprosma*, *Leptecophylla*, *Oreobolus*, *Rhynchospora*, *Vaccinium*.

(iv) In units Oahu—Wet Cliff—Unit 1, Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, Oahu—Wet Cliff—Unit 4, Oahu—Wet Cliff—Unit 5, Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the phys-

ical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Phyllostegia kaalaensis (NCN)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Phyllostegia kaalaensis* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

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(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Phyllostegia mollis (NCN)

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 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, and Oahu—Lowland Wet—Unit 5, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Phyllostegia mollis* on Oahu.

(i) In units 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, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, and Oahu—Lowland Wet—Unit 5, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

Phyllostegia parviflora (NCN)

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—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Phyllostegia parviflora* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat for *Phyllostegia parviflora* var. *lydgatei* are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Lowland Mesic—Unit 4, Oahu—Lowland Mesic—Unit 5, Oahu—Lowland Mesic—Unit 6, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat for *Phyllostegia parviflora* var. *parviflora* are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

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(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(iii) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat for *Phyllostegia parviflora* var. *parviflora* are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepta*.

(iv) In units Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat for *Phyllostegia parviflora* var. *parviflora* are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Stenogyne kanehoana (NCN)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Stenogyne*

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kanehoana on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Less than 3,300 ft (1,000 m).

(ii) Annual precipitation: 50 to 75 in (130 to 190 cm).

(iii) Substrate: Shallow soils, little to no herbaceous layer.

(iv) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(v) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(vi) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

FAMILY LOGANIACEAE

Labordia cyrtandrae (KAMAKAHALA)

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 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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—Montane Wet—Unit 1, Oahu—Wet Cliff—Unit 1, Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, Oahu—Wet Cliff—Unit 4, Oahu—Wet Cliff—Unit 5, Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Labordia cyrtandrae* on Oahu.

(i) In units 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, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

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(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(iii) In unit Oahu—Montane Wet—Unit 1, the physical and biological features of critical habitat are:

(A) Elevation: 3,300 to 6,600 ft (1,000 to 2,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Well-developed soils, montane bogs.

(D) Canopy: *Acacia*, *Charpentiera*, *Cheirodendron*, *Metrosideros*.

(E) Subcanopy: *Broussaisia*, *Cibotium*, *Eurya*, *Ilex*, *Myrsine*.

(F) Understory: Ferns, *Carex*, *Coprosma*, *Leptecophylla*, *Oreobolus*, *Rhynchospora*, *Vaccinium*.

(iv) In units Oahu—Wet Cliff—Unit 1, Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, Oahu—Wet Cliff—Unit 4, Oahu—Wet Cliff—Unit 5, Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

FAMILY MALVACEAE

Abutilon sandwicense (NCN)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Abutilon sandwicense* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit

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7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

- (A) Elevation: Unrestricted.
- (B) Annual precipitation: Less than 75 in (190 cm).
- (C) Substrate: Greater than 65 degree slope, rocky talus.
- (D) Canopy: None.
- (E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.
- (F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Hibiscus brackenridgei (MAO HAU HELE)

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, and Oahu—Lowland Mesic—Unit 3, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Hibiscus brackenridgei* var. *mokuleianus* and *Hibiscus brackenridgei* var. *molokaiana* on Oahu.

(i) In units 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, and Oahu—Lowland Dry—Unit 11, the physical and biological features of critical habitat for *Hibiscus brackenridgei* var. *mokuleianus* and *Hibiscus brackenridgei* var. *molokaiana* are:

- (A) Elevation: Less than 3,300 ft (1,000 m).
- (B) Annual precipitation: Less than 50 in (130 cm).
- (C) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava.
- (D) Canopy: *Diospyros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.
- (E) Subcanopy: *Chamaesyce*, *Dodonaea*, *Leptecophylla*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.
- (F) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Plumbago*, *Sicyos*, *Sida*, *Waltheria*.

(ii) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat for *Hibiscus brackenridgei*

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var. *mokuleianus* and *Hibiscus brackenridgei* var. *molokaiana* are:

- (A) Elevation: Less than 3,300 ft (1,000 m).
- (B) Annual precipitation: 50 to 75 in (130 to 190 cm).
- (C) Substrate: Shallow soils, little to no herbaceous layer.
- (D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.
- (E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.
- (F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

FAMILY MYRSINACEAE

Myrsine juddii (KOLEA)

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, and Oahu—Lowland Wet—Unit 16, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Myrsine juddii* on Oahu. Within these units, the physical and biological features of critical habitat are:

- (i) Elevation: Less than 3,300 ft (1,000 m).
- (ii) Annual precipitation: Greater than 75 in (190 cm).
- (iii) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.
- (iv) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.
- (v) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.
- (vi) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

FAMILY MYRTACEAE

Eugenia koolauensis (NIOI)

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, and Oahu—Lowland Mesic—

Unit 7, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Eugenia koolauensis* on Oahu. Within these units, the physical and biological features of critical habitat are:

- (i) Elevation: Less than 3,300 ft (1,000 m).
- (ii) Annual precipitation: 50 to 75 in (130 to 190 cm).
- (iii) Substrate: Shallow soils, little to no herbaceous layer.
- (iv) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.
- (v) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.
- (vi) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

FAMILY ORCHIDACEAE

Platanthera holochila (NCN)

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, and Oahu—Lowland Wet—Unit 16, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Platanthera holochila* on Oahu. Within these units, the physical and biological features of critical habitat are:

- (i) Elevation: Less than 3,300 ft (1,000 m).
- (ii) Annual precipitation: Greater than 75 in (190 cm).
- (iii) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs and bog hummocks.
- (iv) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.
- (v) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.
- (vi) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

FAMILY PLANTAGINACEAE

Plantago princeps (LAUKAHI KUAHIWI)

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 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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 6, 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, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Plantago princeps* on Oahu.

- (i) In units 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, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat for *Plantago princeps* var. *princeps* are:
 - (A) Elevation: Less than 3,300 ft (1,000 m).
 - (B) Annual precipitation: 50 to 75 in (130 to 190 cm).
 - (C) Substrate: Shallow soils, little to no herbaceous layer.
 - (D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.
 - (E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.
 - (F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.
- (ii) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat for *Plantago princeps* var. *longibracteata* are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(iii) In units Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat for *Plantago princeps* var. *princeps* are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(iv) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the

physical and biological features of critical habitat for *Plantago princeps* var. *princeps* are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

(v) In units Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat for *Plantago princeps* var. *princeps* are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptocophylla*, *Metrosideros*.

(F) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

FAMILY POACEAE

Cenchrus agrimonioides
(KAMANOMANO)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cenchrus agrimonioides* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

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(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Eragrostis fosbergii (FOSBERG'S LOVE GRASS)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Eragrostis fosbergii* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

FAMILY PRIMULACEAE

Lysimachia filifolia (NCN)

Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Lysimachia filifolia* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Unrestricted.

(ii) Annual precipitation: Greater than 75 in (190 cm).

(iii) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(iv) Canopy: None.

(v) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(vi) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

FAMILY RHAMNACEAE

Colubrina oppositifolia (KAUILA)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Colubrina oppositifolia* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Less than 3,300 ft (1,000 m).

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(ii) Annual precipitation: 50 to 75 in (130 to 190 cm).

(iii) Substrate: Shallow soils, little to no herbaceous layer.

(iv) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(v) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(vi) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

Gouania meyenii (NCN)

Oahu—Lowland Dry—Unit 1, Oahu—Lowland Dry—Unit 2, Oahu—Lowland Dry—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, 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—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Gouania meyenii* on Oahu.

(i) In units Oahu—Lowland Dry—Unit 1, Oahu—Lowland Dry—Unit 2, Oahu—Lowland Dry—Unit 6, Oahu—Lowland Dry—Unit 7, Oahu—Lowland Dry—Unit 8, Oahu—Lowland Dry—Unit 9, Oahu—Lowland Dry—Unit 10, and Oahu—Lowland Dry—Unit 11, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Less than 50 in (130 cm).

(C) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava.

(D) Canopy: *Diospyros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.

(E) Subcanopy: *Chamaesyce*, *Dodonaea*, *Leptecophylla*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.

(F) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Sicyos*.

(ii) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2,

and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(iii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Gouania vitifolia (NCN)

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 Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Gouania vitifolia* on Oahu.

(i) In units 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, and Oahu—Lowland Dry—Unit 11, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Less than 50 in (130 cm).

(C) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava.

(D) Canopy: *Diospyros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.

(E) Subcanopy: *Chamaesyce*, *Dodonaea*, *Leptecophylla*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.

(F) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Sicyos*.

(ii) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(iii) In units Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, and Oahu—Lowland Wet—Unit 5, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(iv) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

FAMILY RUBIACEAE

Gardenia mannii (NANU)

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 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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, and Oahu—Lowland Wet—Unit 16, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Gardenia mannii* on Oahu.

(i) In units 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, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

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(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

Kadua coriacea (KIOELE)

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, and Oahu—Lowland Mesic—Unit 7, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Kadua coriacea* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Less than 3,300 ft (1,000 m).

(ii) Annual precipitation: 50 to 75 in (130 to 190 cm).

(iii) Substrate: Shallow soils, little to no herbaceous layer.

(iv) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

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(v) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(vi) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

Kadua degeneri (NCN)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Kadua degeneri* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Kadua parvula (NCN)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Kadua parvula* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Psychotria hexandra var. *oahuensis*
(KOPIKO)

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—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Psychotria hexandra* var. *oahuensis* on Oahu.

(i) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepis*.

(ii) In units Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: *Bryophytes*, *Ferns*, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

FAMILY RUTACEAE

Melicope christophersenii (ALANI)

Oahu—Montane Wet—Unit 1, Oahu—Wet Cliff—Unit 1, Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, Oahu—Wet Cliff—Unit 4, and Oahu—Wet

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Cliff—Unit 5, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Melicope christophersenii* on Oahu.

(i) In unit Oahu—Montane Wet—Unit 1, the physical and biological features of critical habitat are:

(A) Elevation: 3,300 to 6,600 ft (1,000 to 2,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Well-developed soils, montane bogs.

(D) Canopy: *Acacia*, *Charpentiera*, *Cheirodendron*, *Metrosideros*.

(E) Subcanopy: *Broussaisia*, *Cibotium*, *Eurya*, *Ilex*, *Myrsine*.

(F) Understory: Ferns, *Carex*, *Coprosma*, *Leptecophylla*, *Oreobolus*, *Rhynchospora*, *Vaccinium*.

(ii) In unit Oahu—Wet Cliff—Unit 1, Oahu—Wet Cliff—Unit 2, Oahu—Wet Cliff—Unit 3, Oahu—Wet Cliff—Unit 4, and Oahu—Wet Cliff—Unit 5, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

Melicope hiiakae (ALANI)

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, and Oahu—Lowland Wet—Unit 16, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Melicope hiiakae* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Less than 3,300 ft (1,000 m).

(ii) Annual precipitation: Greater than 75 in (190 cm).

(iii) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(iv) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(v) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(vi) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

Melicope cornuta var. *cornuta* (NCN)

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, and Oahu—Lowland Wet—Unit 16, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Melicope cornuta* var. *cornuta* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Less than 3,300 ft (1,000 m).

(ii) Annual precipitation: Greater than 75 in (190 cm).

(iii) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(iv) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(v) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(vi) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

Melicope lydgatei (ALANI)

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, and Oahu—Lowland Wet—Unit 16, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Melicope lydgatei* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 4, Oahu—Lowland Mesic—Unit 5,

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Oahu—Lowland Mesic—Unit 6, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

Melicope makahae (ALANI)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Melicope makahae* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—

Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Melicope pallida (ALANI)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Melicope pallida* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Less than 3,300 ft (1,000 m).

(ii) Annual precipitation: 50 to 75 in (130 to 190 cm).

(iii) Substrate: Shallow soils, little to no herbaceous layer.

(iv) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(v) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(vi) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

Melicope saint-johnii (ALANI)

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—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Melicope saint-johnii* on Oahu.

(i) In units 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, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Melicope cornuta var. *decurrens* (NCN)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Melicope cornuta* var. *decurrens* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Zanthoxylum oahuense (AE)

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

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Wet—Unit 13, Oahu—Lowland Wet—Unit 14, Oahu—Lowland Wet—Unit 15, and Oahu—Lowland Wet—Unit 16, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Zanthoxylum oahuense* on Oahu. Within these units, the physical and biological features of critical habitat are:

- (i) Elevation: Less than 3,300 ft (1,000 m).
- (ii) Annual precipitation: Greater than 75 in (190 cm).
- (iii) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.
- (iv) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.
- (v) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.
- (vi) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

FAMILY SAPINDACEAE

Alectryon macrococcus (MAHOE)

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—Montane Wet—Unit 1, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Alectryon macrococcus* var. *macrococcus* on Oahu.

- (i) In units 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, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:
 - (A) Elevation: Less than 3,300 ft (1,000 m).
 - (B) Annual precipitation: 50 to 75 in (130 to 190 cm).
 - (C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In unit Oahu—Montane Wet—Unit 1, the physical and biological features of critical habitat are:

- (A) Elevation: 3,300 to 6,600 ft (1,000 to 2,000 m).
- (B) Annual precipitation: Greater than 75 in (190 cm).
- (C) Substrate: Well-developed soils, montane bogs.

(D) Canopy: *Acacia*, *Charpentiera*, *Cheirodendron*, *Metrosideros*.

(E) Subcanopy: *Broussaisia*, *Cibotium*, *Eurya*, *Ilex*, *Myrsine*.

(F) Understory: Ferns, *Carex*, *Coprosma*, *Leptecophylla*, *Oreobolus*, *Rhynchospora*, *Vaccinium*.

(iii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

- (A) Elevation: Unrestricted.
- (B) Annual precipitation: Less than 75 in (190 cm).
- (C) Substrate: Greater than 65 degree slope, rocky talus.
- (D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

FAMILY SOLANACEAE

Solanum sandwicense (POPOLO, ALAKEAKUA)

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, and Oahu—Lowland Mesic—Unit 7, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Solanum sandwicense* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Less than 3,300 ft (1,000 m).

(ii) Annual precipitation: 50 to 75 in (130 to 190 cm).

(iii) Substrate: Shallow soils, little to no herbaceous layer.

(iv) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(v) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(vi) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

FAMILY URTICACEAE

Neraudia angulata (NCN)

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—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Neraudia angulata* on Oahu.

(i) In units 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, and Oahu—Lowland Dry—Unit 11, the physical and biological features of critical habitat for *Neraudia angulata* var. *angulata* and *Neraudia angulata* var. *dentata* are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Less than 50 in (130 cm).

(C) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava.

(D) Canopy: *Diospyros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.

(E) Subcanopy: *Chamaesyce*, *Dodonaea*, *Leptecophylla*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.

(F) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Sicyos*.

(ii) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat for *Neraudia angulata* var. *angulata* and *Neraudia angulata* var. *dentata* are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(iii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat for *Neraudia angulata* var. *angulata* and *Neraudia angulata* var. *dentata* are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Urera kaalae (OPUHE)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, and Oahu—Lowland Wet—Unit 5, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Urera kaalae* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

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(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, and Oahu—Lowland Wet—Unit 5, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

FAMILY VIOLACEAE

Isodendron laurifolium (AUPAKA)

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—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Isodendron laurifolium* on Oahu.

(i) In units 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, and Oahu—Lowland

Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Isodendron longifolium (AUPAKA)

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 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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, and Oahu—Lowland Wet—Unit 16, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Isodendron longifolium* on Oahu.

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(i) In units 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, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, Oahu—Lowland Wet—Unit 5, 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microleptia*.

Isodendrion pyrifolium (WAHINE NOHO KULA)

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—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2,

Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Isodendrion pyrifolium* on Oahu.

(i) In units 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, and Oahu—Lowland Dry—Unit 11, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Less than 50 in (130 cm).

(C) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava.

(D) Canopy: *Diospyros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.

(E) Subcanopy: *Chamaesyce*, *Dodonaea*, *Leptecophylla*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.

(F) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Sicyos*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Viola chamissoniana ssp. *chamissoniana* (PAMAKANI)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—

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Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Viola chamissoniana* ssp. *chamissoniana* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Viola oahuensis (NCN)

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—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Viola oahuensis* on Oahu.

(i) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(ii) In units Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

FAMILY VISCACEAE

Korthalsella degeneri (HULUMOA)

Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Korthalsella degeneri* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Unrestricted.

(ii) Annual precipitation: Less than 75 in (190 cm).

(iii) Substrate: Greater than 65 degree slope, rocky talus.

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- (iv) Canopy: None.
- (v) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.
- (vi) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.
- (vii) Host plants *Sapindus oahuensis* and *Nestigis sandwicensis*.

(2) *Ferns and allies.*

FAMILY ADIANTACEAE

Pteris lidgatei (NCN)

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, and Oahu—Lowland Wet—Unit 16, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Pteris lidgatei* on Oahu. Within these units, the physical and biological features of critical habitat are:

- (i) Elevation: Less than 3,300 ft (1,000 m).
- (ii) Annual precipitation: Greater than 75 in (190 cm).
- (iii) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.
- (iv) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.
- (v) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.
- (vi) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

FAMILY ASPLENIACEAE

Ctenitis squamigera (PAUOA)

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, and Oahu—Lowland Mesic—Unit 7, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Ctenitis squamigera* on Oahu. Within these units, the physical and biological features of critical habitat are:

- (i) Elevation: Less than 3,300 ft (1,000 m).

- (ii) Annual precipitation: 50 to 75 in (130 to 190 cm).

(iii) Substrate: Shallow soils, little to no herbaceous layer.

- (iv) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(v) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

- (vi) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

Asplenium dielirectum (NCN)

Oahu—Lowland Mesic—Unit 4, Oahu—Lowland Mesic—Unit 5, Oahu—Lowland Mesic—Unit 6, and Oahu—Lowland Mesic—Unit 7, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Asplenium dielirectum* on Oahu. Within these units, the physical and biological features of critical habitat are:

- (i) Elevation: Less than 3,300 ft (1,000 m).

(ii) Annual precipitation: 50 to 75 in (130 to 190 cm).

(iii) Substrate: Shallow soils, little to no herbaceous layer.

- (iv) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(v) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

- (vi) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

Asplenium dielfalcatum (NCN)

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—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Asplenium dielfalcatum* on Oahu.

- (i) In units 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, and Oahu—Lowland Mesic—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Diellia unisora (NCN)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Diellia unisora* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Dry Cliff—Unit 1, Oahu—Dry Cliff—Unit 2, Oahu—Dry Cliff—Unit 3, Oahu—Dry Cliff—Unit 4, Oahu—Dry Cliff—Unit 6, Oahu—Dry Cliff—Unit 7a, Oahu—Dry Cliff—Unit 7b, and Oahu—Dry Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Less than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, rocky talus.

(D) Canopy: None.

(E) Subcanopy: *Antidesma*, *Chamaesyce*, *Diospyros*, *Dodonaea*.

(F) Understory: *Bidens*, *Eragrostis*, *Melanthera*, *Schiedea*.

Diplazium molokaiense (NCN)

Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, Oahu—Lowland Mesic—Unit 3, Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, and Oahu—Lowland Wet—Unit 5, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Diplazium molokaiense* on Oahu.

(i) In units Oahu—Lowland Mesic—Unit 1, Oahu—Lowland Mesic—Unit 2, and Oahu—Lowland Mesic—Unit 3, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: 50 to 75 in (130 to 190 cm).

(C) Substrate: Shallow soils, little to no herbaceous layer.

(D) Canopy: *Acacia*, *Diospyros*, *Metrosideros*, *Myrsine*, *Pouteria*, *Santalum*.

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(E) Subcanopy: *Dodonaea*, *Freycinetia*, *Leptecophylla*, *Melanthera*, *Osteomeles*, *Pleomele*, *Psydrax*.

(F) Understory: *Carex*, *Dicranopteris*, *Diplazium*, *Elaphoglossum*, *Peperomia*.

(ii) In units Oahu—Lowland Wet—Unit 1, Oahu—Lowland Wet—Unit 2, Oahu—Lowland Wet—Unit 3, Oahu—Lowland Wet—Unit 4, and Oahu—Lowland Wet—Unit 5, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

FAMILY GRAMMITIDACEAE

Adenophorus periens (PALAI LAU)

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—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Adenophorus periens* on Oahu.

(i) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(ii) In units Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: Bryophytes, Ferns, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

FAMILY LYCOPODIACEAE

Phlegmariurus nutans (WAWAEIOLE)

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—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Phlegmariurus nutans* on Oahu.

(i) In units 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, and Oahu—Lowland Wet—Unit 16, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Clays; ashbeds; deep, well-drained soils; lowland bogs.

(D) Canopy: *Antidesma*, *Metrosideros*, *Myrsine*, *Pisonia*, *Psychotria*.

(E) Subcanopy: *Cibotium*, *Claoxylon*, *Kadua*, *Melicope*.

(F) Understory: *Alyxia*, *Cyrtandra*, *Dicranopteris*, *Diplazium*, *Machaerina*, *Microlepia*.

(ii) In units Oahu—Wet Cliff—Unit 6, Oahu—Wet Cliff—Unit 7, and Oahu—Wet Cliff—Unit 8, the physical and biological features of critical habitat are:

(A) Elevation: Unrestricted.

(B) Annual precipitation: Greater than 75 in (190 cm).

(C) Substrate: Greater than 65 degree slope, shallow soils, weathered lava.

(D) Canopy: None.

(E) Subcanopy: *Broussaisia*, *Cheirodendron*, *Leptecophylla*, *Metrosideros*.

(F) Understory: *Bryophytes*, *Ferns*, *Coprosma*, *Dubautia*, *Kadua*, *Peperomia*.

FAMILY MARSILEACEAE

Marsilea villosa (IHI IHI)

Oahu—Coastal—Unit 9, Oahu—Coastal—Unit 11, Oahu—Coastal—Unit 12, and Oahu—Lowland Dry—Unit 7, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Marsilea villosa* on Oahu.

(i) In units Oahu—Coastal—Unit 9, Oahu—Coastal—Unit 11, and Oahu—Coastal—Unit 12, the physical and biological features of critical habitat are:

(A) Elevation: Less than 980 ft (300 m).

(B) Annual precipitation: Less than 20 in (50 cm).

(C) Substrate: Well-drained, calcareous, talus slopes; weathered clay soils; seasonal wetlands; mudflats.

(D) Canopy: *Hibiscus*, *Myoporum*, *Santalum*, *Scaevola*.

(E) Subcanopy: *Gossypium*, *Sida*, *Vitex*.

(F) Understory: *Eragrostis*, *Jacquemontia*, *Lyceum*, *Nama*, *Sesuvium*, *Sporobolus*, *Vigna*.

(ii) In unit Oahu—Lowland Dry—Unit 7, the physical and biological features of critical habitat are:

(A) Elevation: Less than 3,300 ft (1,000 m).

(B) Annual precipitation: Less than 50 in (130 cm).

(C) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava, seasonal wetlands.

(D) Canopy: *Diospyros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.

(E) Subcanopy: *Chamaesyce*, *Dodonaea*, *Leptecophylla*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.

(F) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Sicyos*.

FAMILY PTERIDACEAE

Doryopteris takeuchii (NCN)

Oahu—Lowland Dry—Unit 6 and Oahu—Lowland Dry—Unit 7, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Doryopteris takeuchii* on Oahu. Within these units, the physical and biological features of critical habitat are:

(i) Elevation: Less than 3,300 ft (1,000 m).

(ii) Annual precipitation: Less than 50 in (130 cm).

(iii) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava.

(iv) Canopy: *Diospyros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.

(v) Subcanopy: *Chamaesyce*, *Dodonaea*, *Leptecophylla*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.

(vi) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Sicyos*.

(k) *Maps and critical habitat unit descriptions for the island of Hawaii, HI.* Critical habitat units are described in this paragraph (k). Map coordinates were created using World Geodetic System 1984 (WGS84). The map in paragraph (k)(1) shows the general locations of the critical habitat units designated on the island of Hawaii. Existing humanmade features and structures, such as buildings, aqueducts, runways, roads, and other paved areas, and the land on which they are located existing within the legal boundaries on April 11, 2024 are not included in the critical habitat designation. Federal actions limited to those areas, therefore, would not trigger a consultation

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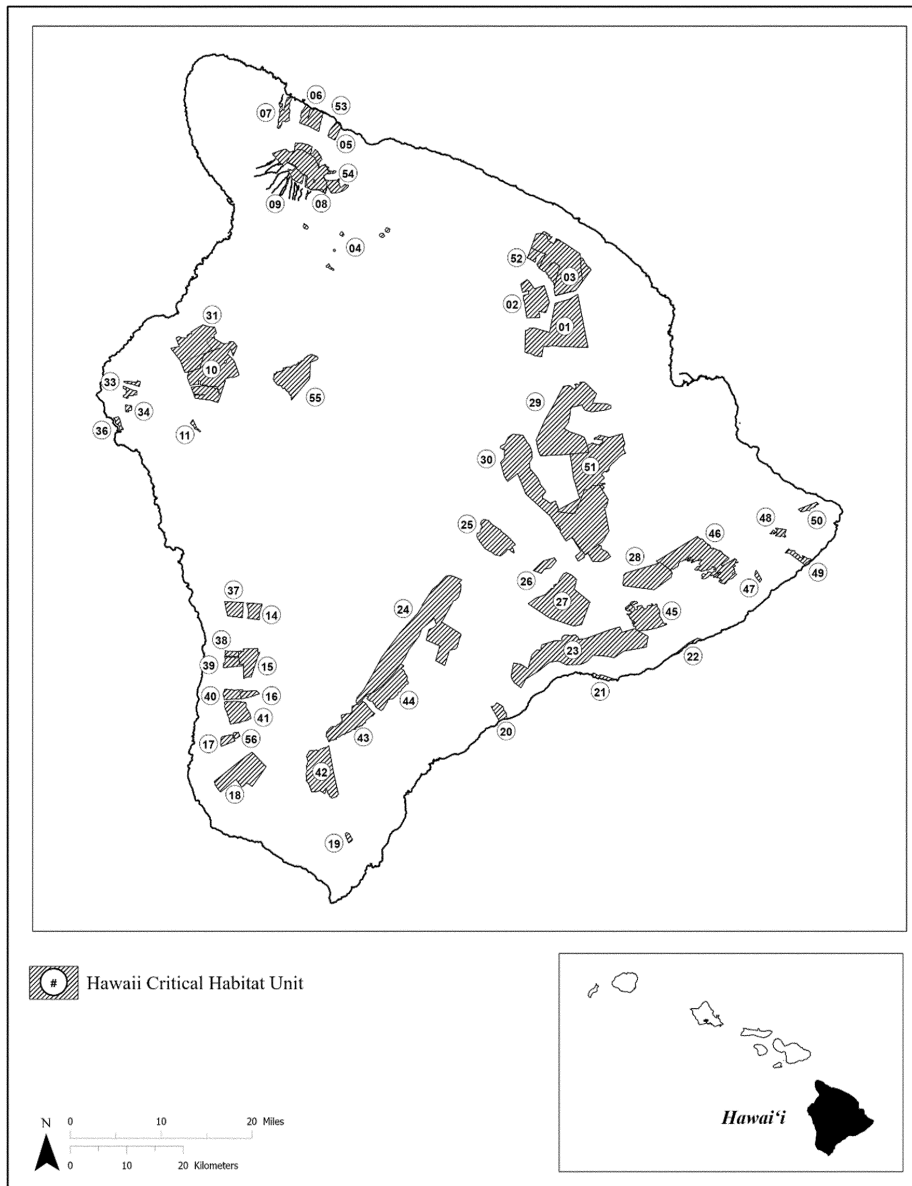
under section 7 of the Act unless they may affect the species or physical or biological features in adjacent critical habitat.

(1) Index map follows:

Figure 1 to paragraph (k)

MAP 1

Hawaii Critical Habitat—Island Index Map

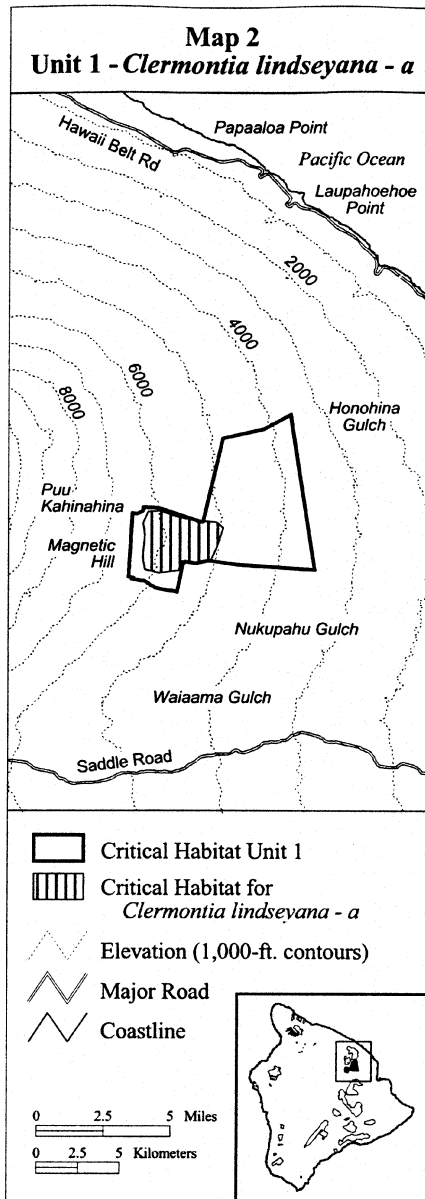


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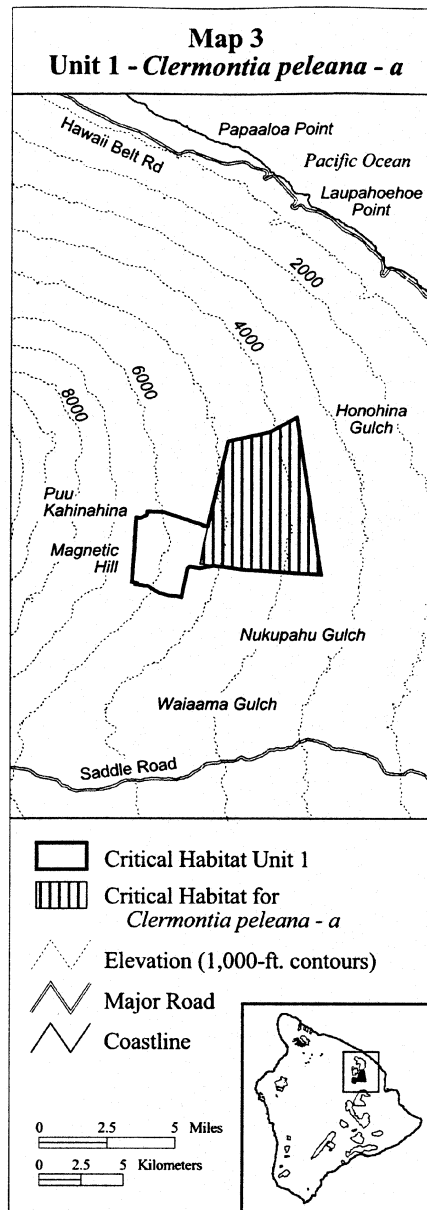
(2) Hawaii 1—*Clermontia lindseyana*—a
(1,337 ha, 3,303 ac)

- (i) [Reserved]
- (ii) Map 2 follows:



(3) Hawaii 1—*Clermontia peleana*—a
(4,704 ha, 11,624 ac)

- (i) [Reserved]
- (ii) Map 3 follows:



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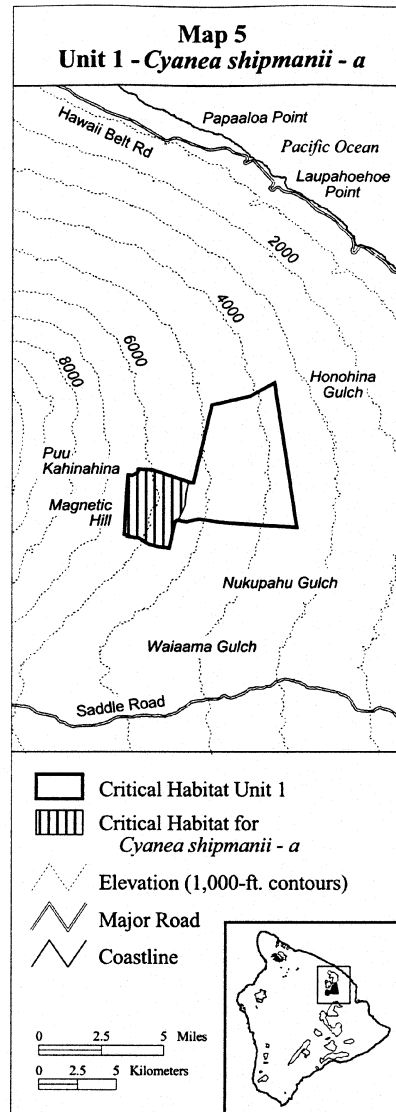
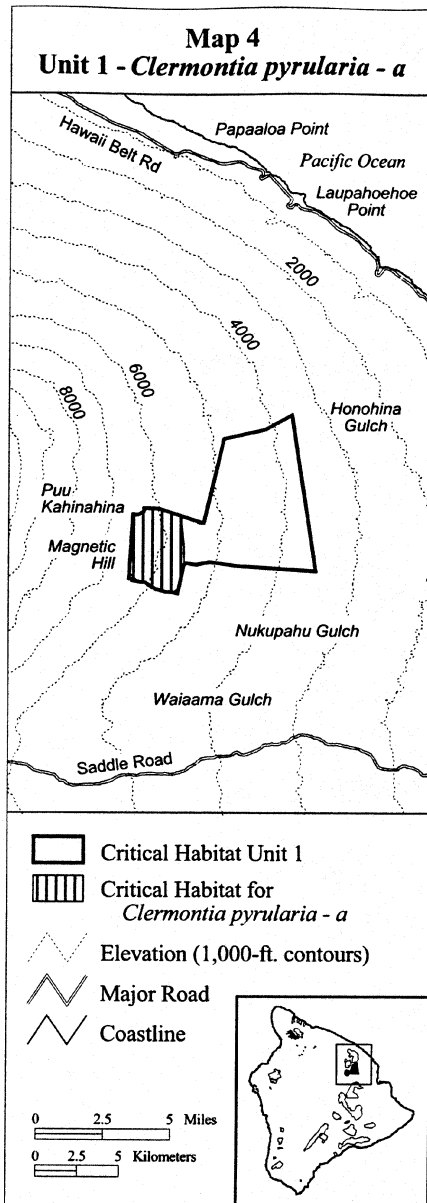
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(4) Hawaii 1—*Clermontia pyrularia*—a
(1,378 ha, 3,405 ac)

(5) Hawaii 1—*Cyanea shipmanii*—a (1,577
ha, 3,898 ac)

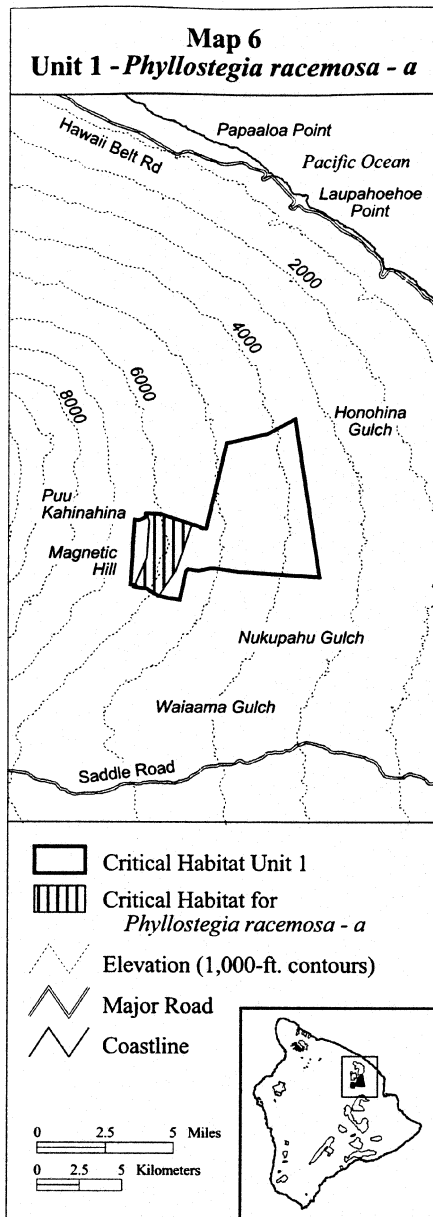
- (i) [Reserved]
- (ii) Map 4 follows:

- (i) [Reserved]
- (ii) Map 5 follows:



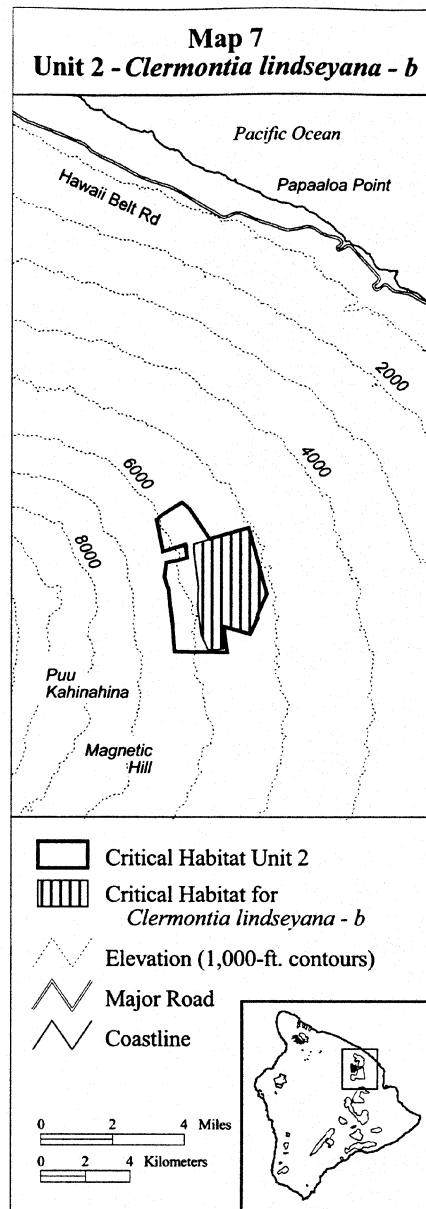
(6) Hawaii 1—*Phyllostegia racemosa*—a
(938 ha, 2,317 ac)

- (i) [Reserved]
- (ii) Map 6 follows:



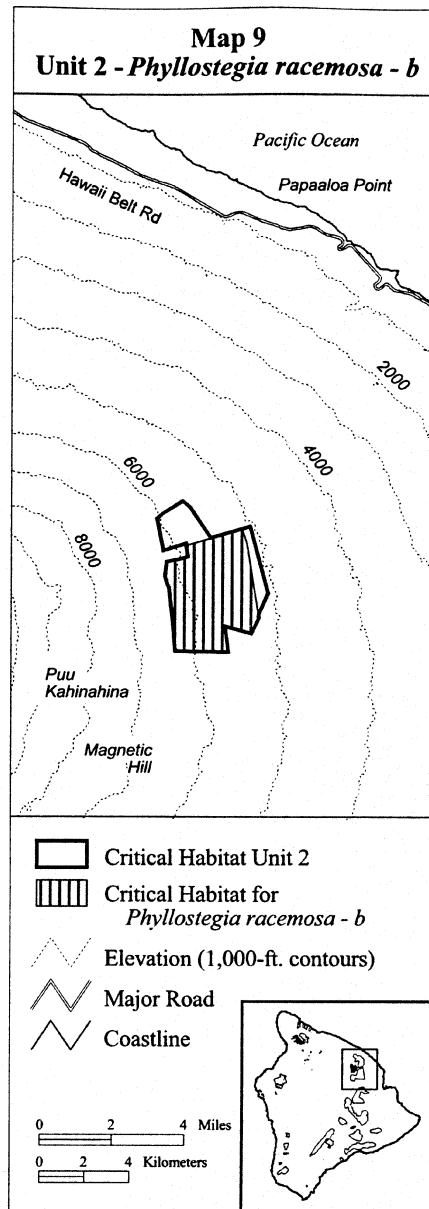
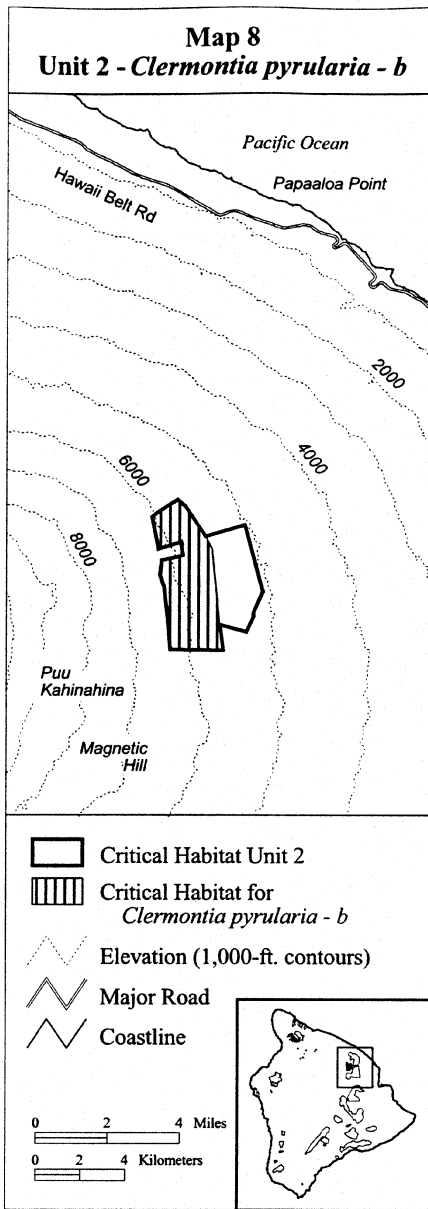
(7) Hawaii 2—*Clermontia lindseyana*—b
(1,262 ha, 3,119 ac)

- (i) [Reserved]
- (ii) Map 7 follows:



(8) Hawaii 2—*Clermontia pyricularia*—b
(1,383 ha, 3,418 ac)

- (i) [Reserved]
- (ii) Map 8 follows:

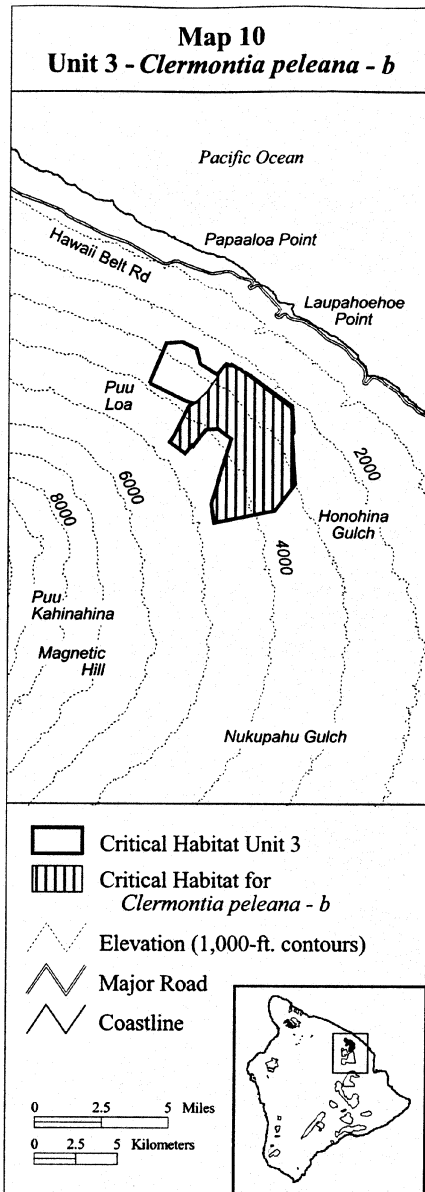


(9) Hawaii 2—*Phyllostegia racemosa*—b
(1,683 ha, 4,158 ac)

- (i) [Reserved]
- (ii) Map 9 follows:

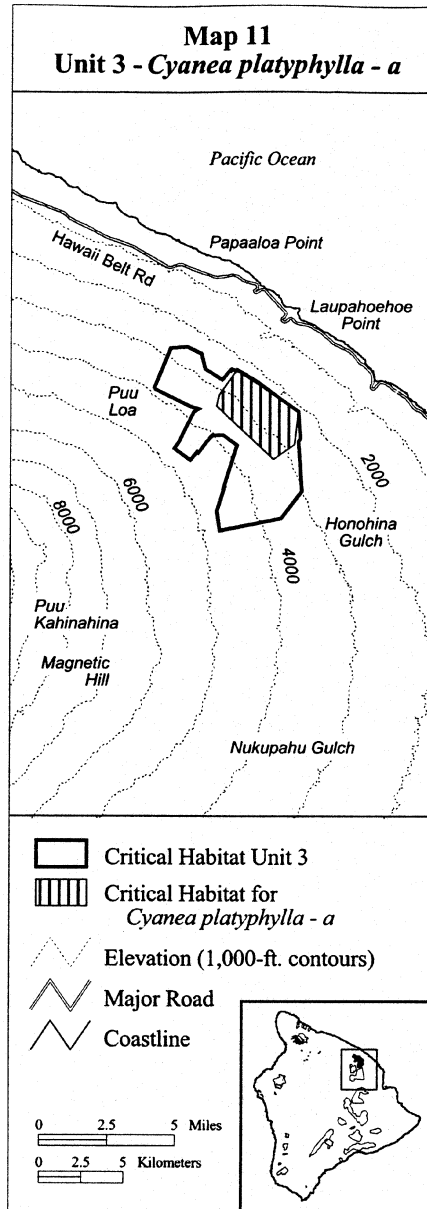
(10) Hawaii 3—*Clermontia peleana*—b
(4,098 ha, 10,126 ac)

- (i) [Reserved]
- (ii) Map 10 follows:



(11) Hawaii 3—*Cyanea platyphylla*—a
(1,403 ha, 3,467 ac)

- (i) [Reserved]
- (ii) Map 11 follows:



(12) Hawaii 3—*Cyanea tritomantha*-a
(12,059 ac; 4,880 ha).

- (i) This unit is also critical habitat for Hawaii 3—*Cyrtandra wagneri*-a, Hawaii 3—*Melicope remyi*-a, Hawaii 3—*Phyllostegia floribunda*-a, Hawaii 3—*Pittosporum hawaiiense*-a, Hawaii 3—

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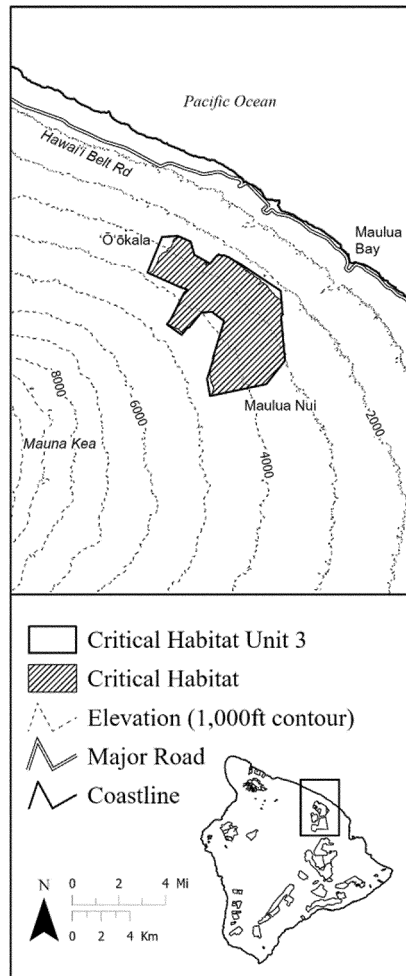
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Schiedea diffusa ssp. *macraei*-a, and Hawaii 3—*Stenogyne cranwelliae*-a (see paragraphs (k)(15), (k)(16), (k)(17), (k)(19), (k)(20), (k)(21), respectively, of this section).

(ii) Map 11a follows:
Figure 12 to paragraph (k)

MAP 11A

Hawaii 3—*Cyanea tritomantha*-a, Hawaii 3—*Cyrtandra wagneri*-a, Hawaii 3—*Melicope remyi*-a, Hawaii 3—*Phyllostegia floribunda*-a, Hawaii 3—*Pittosporum hawaiiense*-a, Hawaii 3—*Schiedea diffusa* ssp. *macraei*-a, Hawaii 3—*Stenogyne cranwelliae*-a

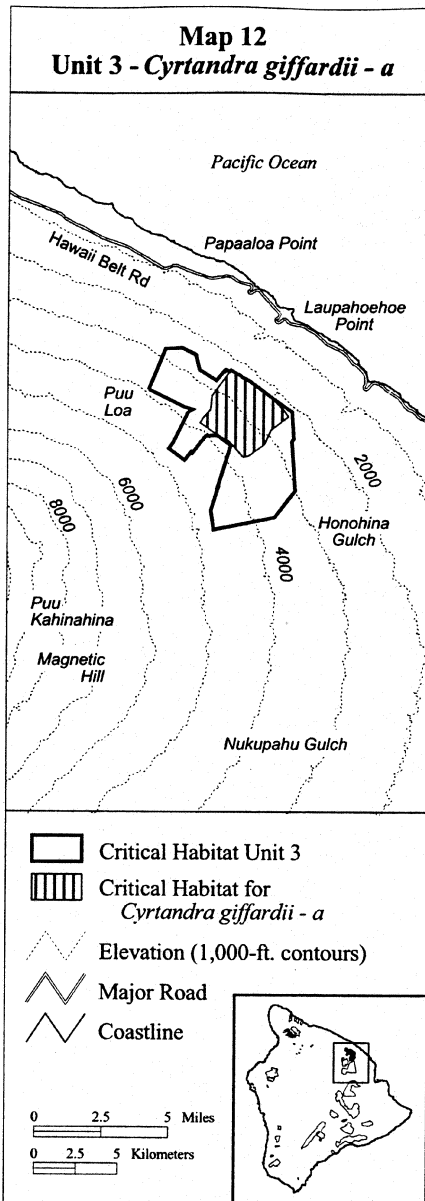


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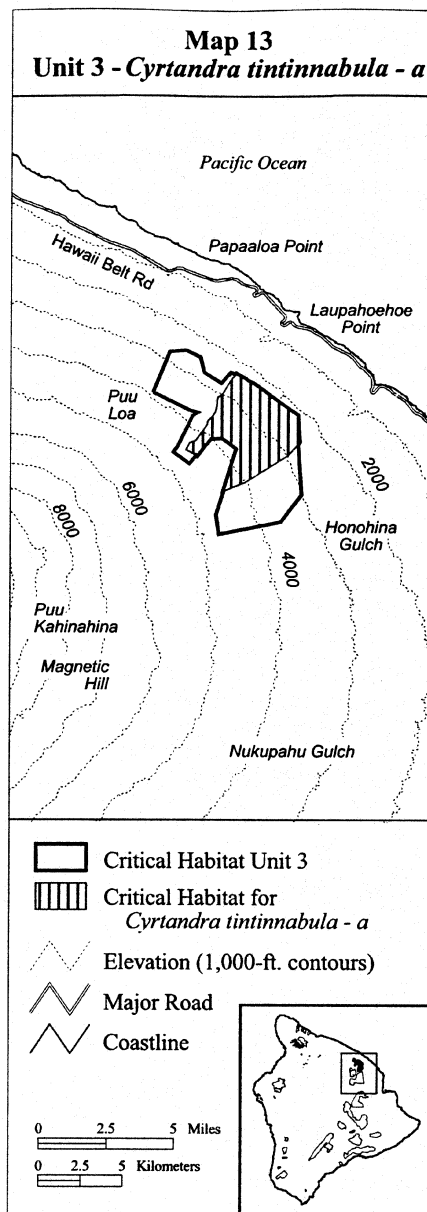
(13) Hawaii 3—*Cyrtandra giffardii*—a
(1,510 ha, 3,731 ac)

- (i) [Reserved]
- (ii) Map 12 follows:



(14) Hawaii 3—*Cyrtandra tintinnabula*—a
(2,322 ha, 5,738 ac)

- (i) [Reserved]
- (ii) Map 13 follows:



(15) Hawaii 3—*Cyrtandra wagneri*-a
(12,059 ac; 4,880 ha). See paragraph

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(k)(12)(ii) of this section for the map of this unit.

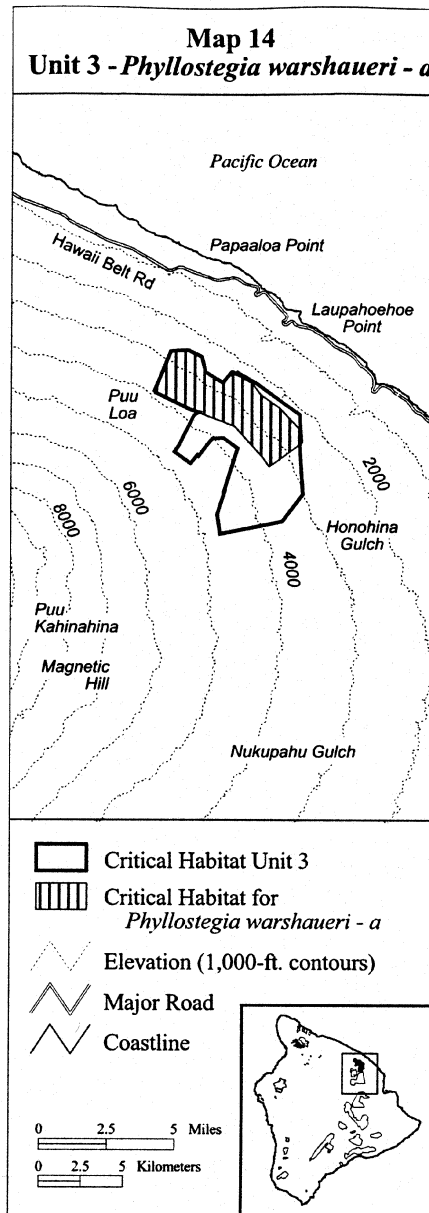
(16) Hawaii 3—*Melicope remyi*-a (12,059 ac; 4,880 ha). See paragraph (k)(12)(ii) of this section for the map of this unit.

(17) Hawaii 3—*Phyllostegia floribunda*-a (12,059 ac; 4,880 ha). See paragraph (k)(12)(ii) of this section for the map of this unit.

(18) Hawaii 3—*Phyllostegia warshaueri*-a (2,471 ha, 6,105 ac)

(i) [Reserved]

(ii) Map 14 follows:



(19) Hawaii 3—*Pittosporum hawaiiense*-a (12,059 ac; 4,880 ha). See paragraph (k)(12)(ii) of this section for the map of this unit.

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(20) Hawaii 3—*Schiedea diffusa* ssp. *macraei*-a (12,059 ac; 4,880 ha). See paragraph (k)(12)(ii) of this section for the map of this unit.

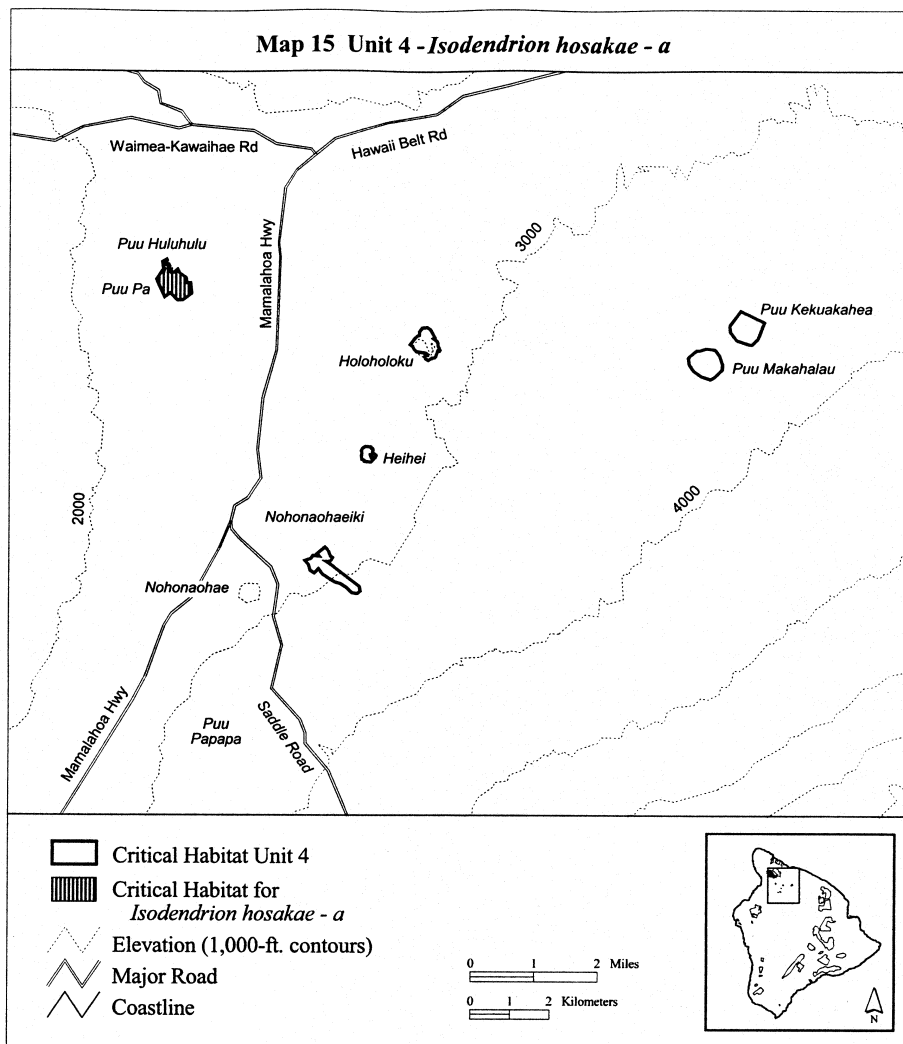
(21) Hawaii 3—*Stenogyne cranwelliae*-a (12,059 ac; 4,880 ha). See paragraph

(k)(12)(ii) of this section for the map of this unit.

(22) Hawaii 4—*Isodendrion hosakae*-a (49 ha, 121 ac)

(i) [Reserved]

(ii) Map 15 follows:



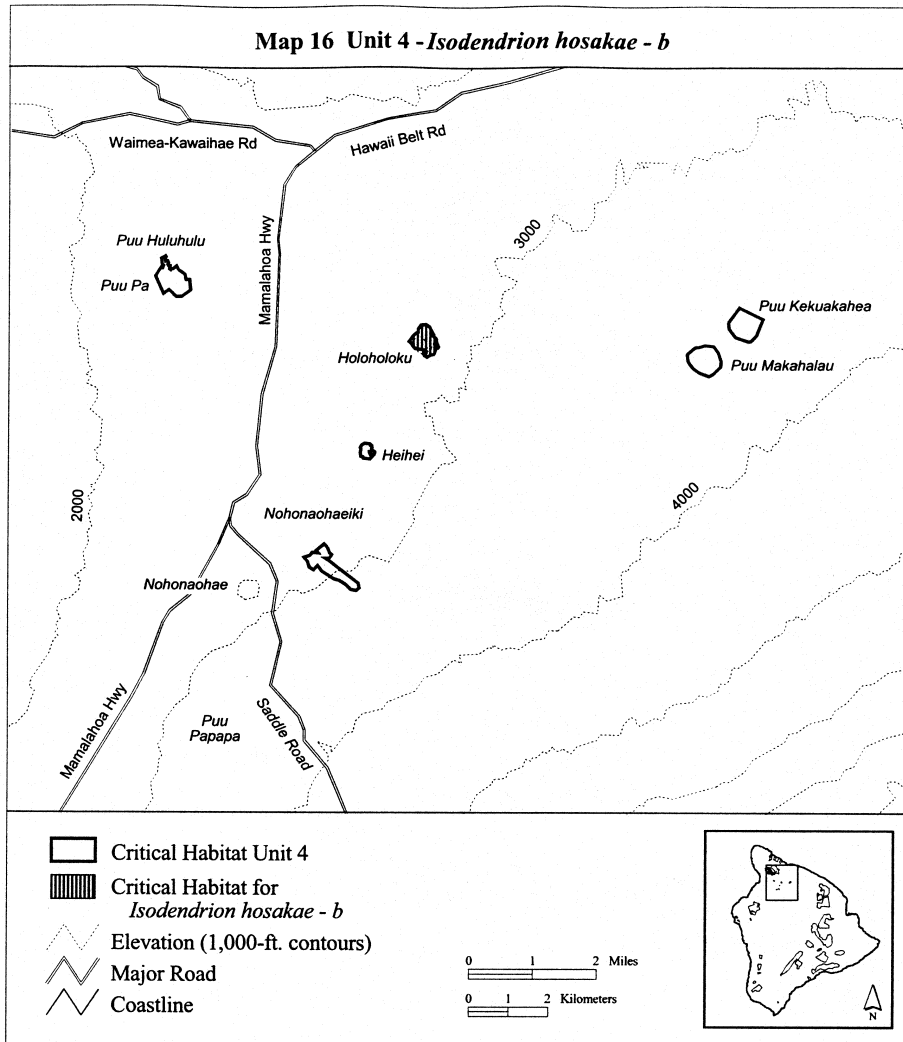
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(23) Hawaii 4—*Isodendrion hosakae*—b
(35 ha, 87 ac)

(ii) Map 16 follows:

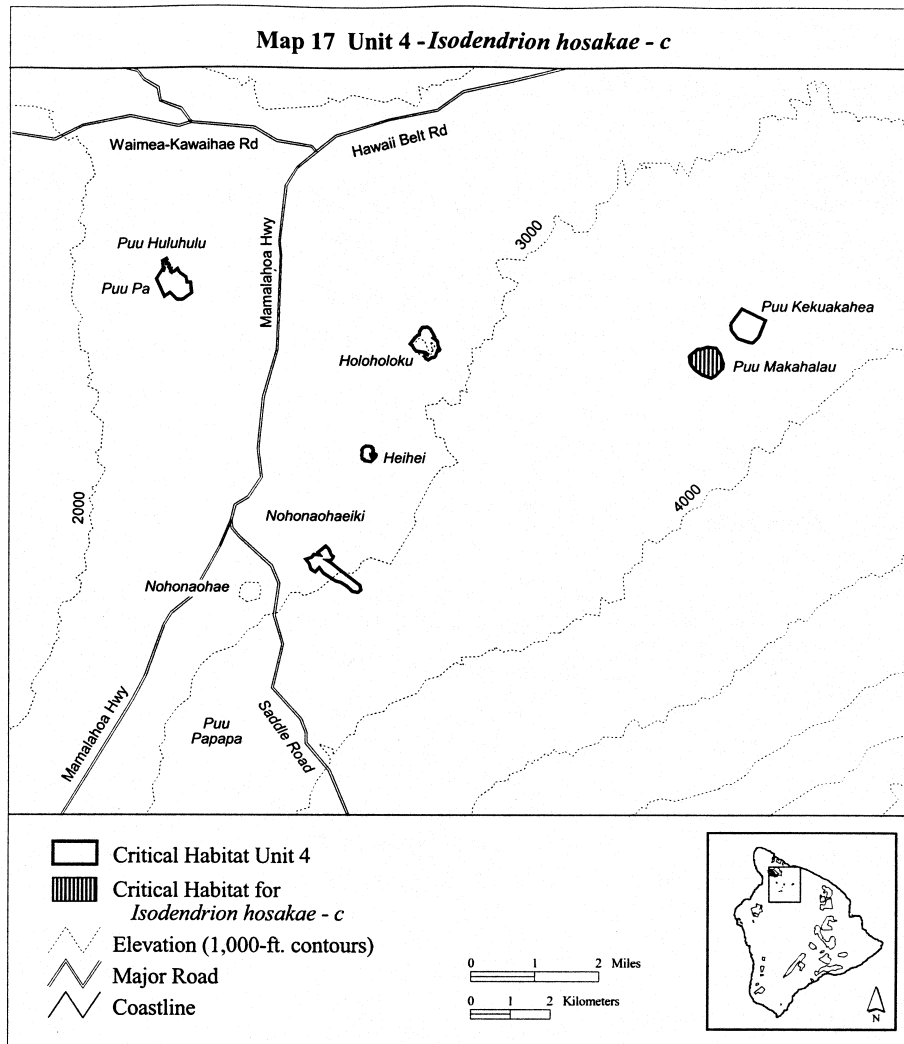
(i) [Reserved]



(24) Hawaii 4—*Isodendrion hosakae*—c
(49 ha, 121 ac)

(ii) Map 17 follows:

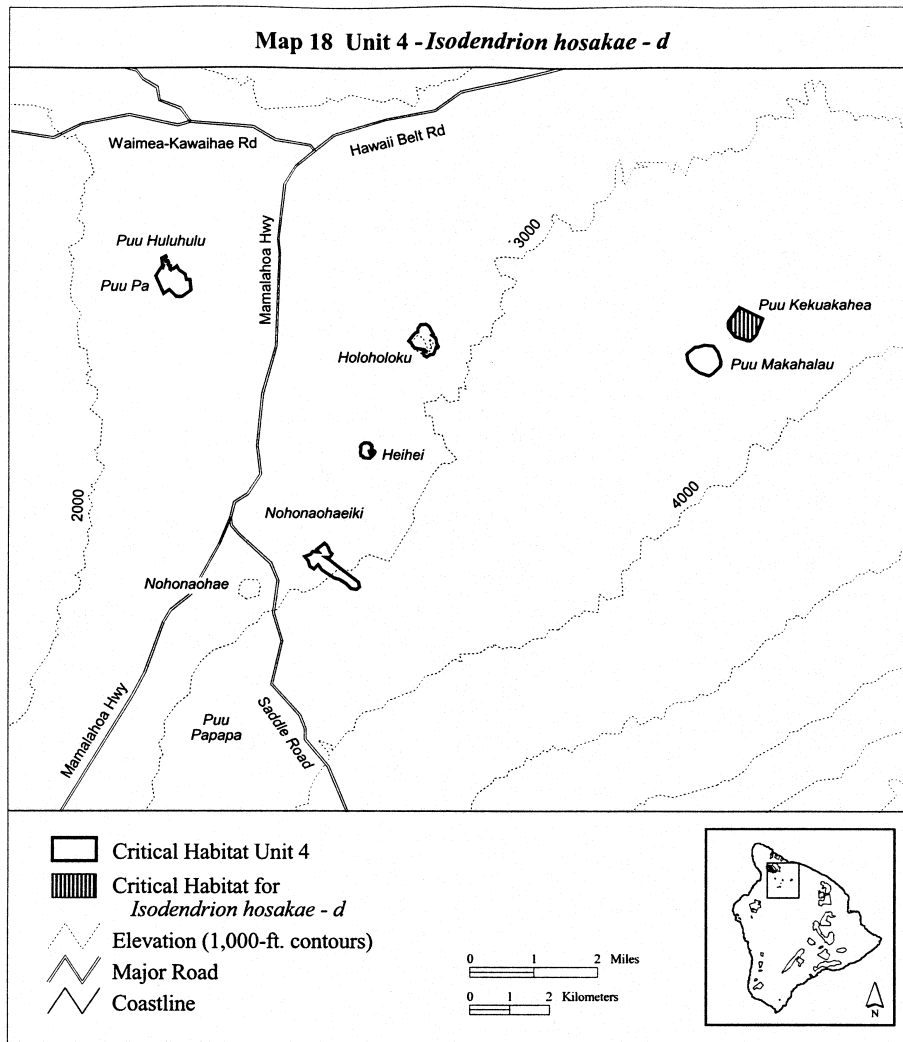
(i) [Reserved]



(25) Hawaii 4—*Isodendrion hosakae*—d
(49 ha, 121 ac)

(ii) Map 18 follows:

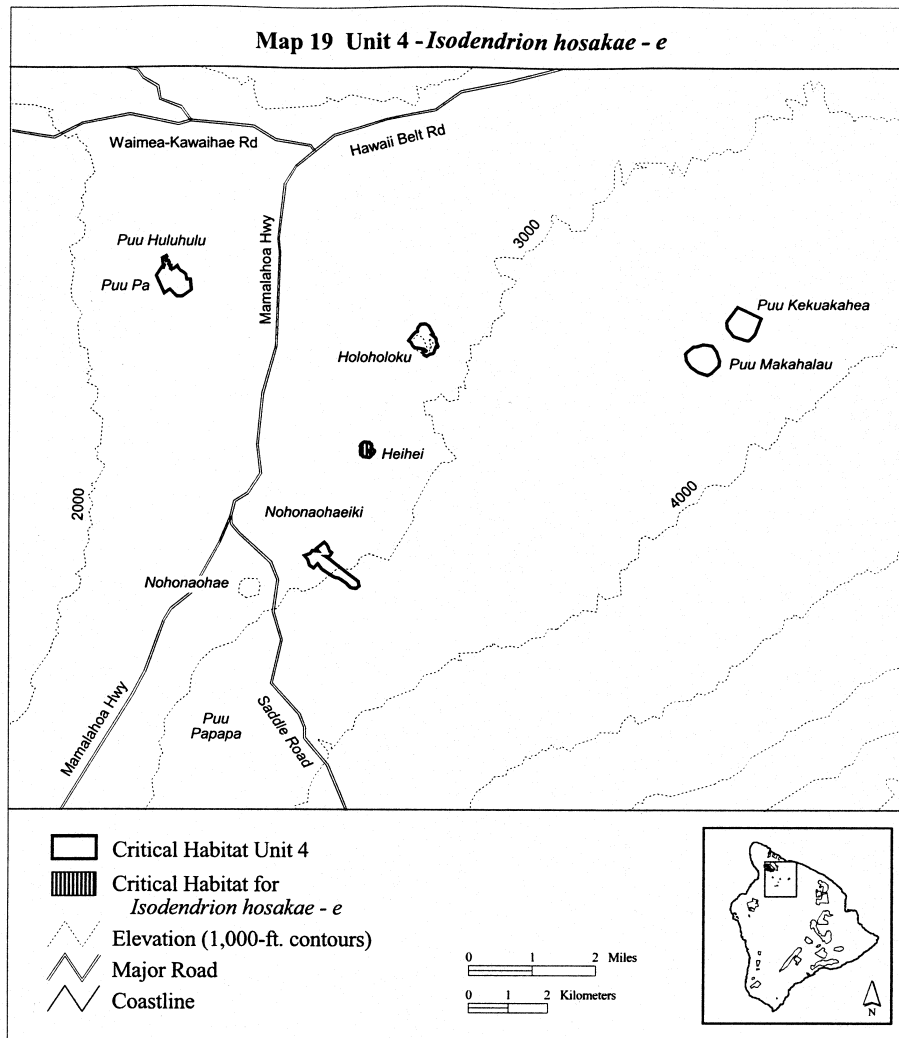
(i) [Reserved]



(26) Hawaii 4—*Isodendrion hosakae*—e
(11 ha, 26 ac)

(ii) Map 19 follows:

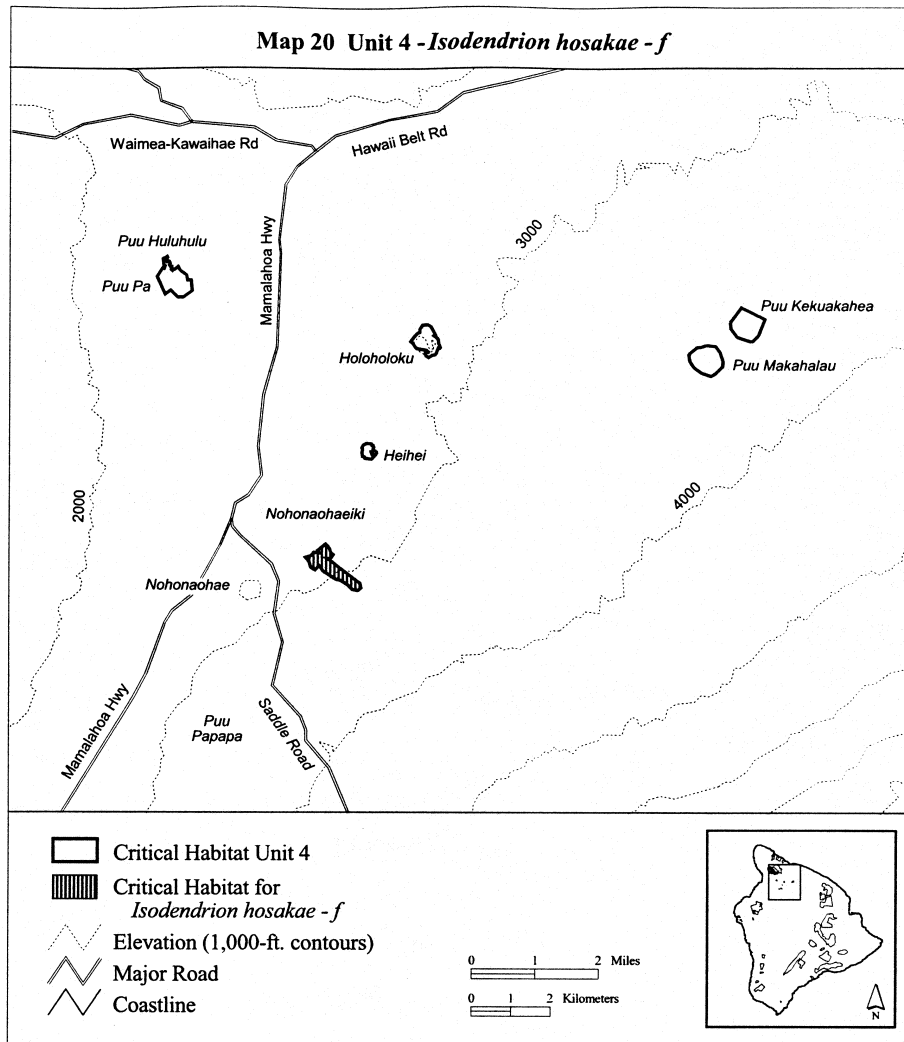
(i) [Reserved]



(27) Hawaii 4—*Isodendrion hosakae*—f (51 ha, 127 ac)

(ii) Map 20 follows:

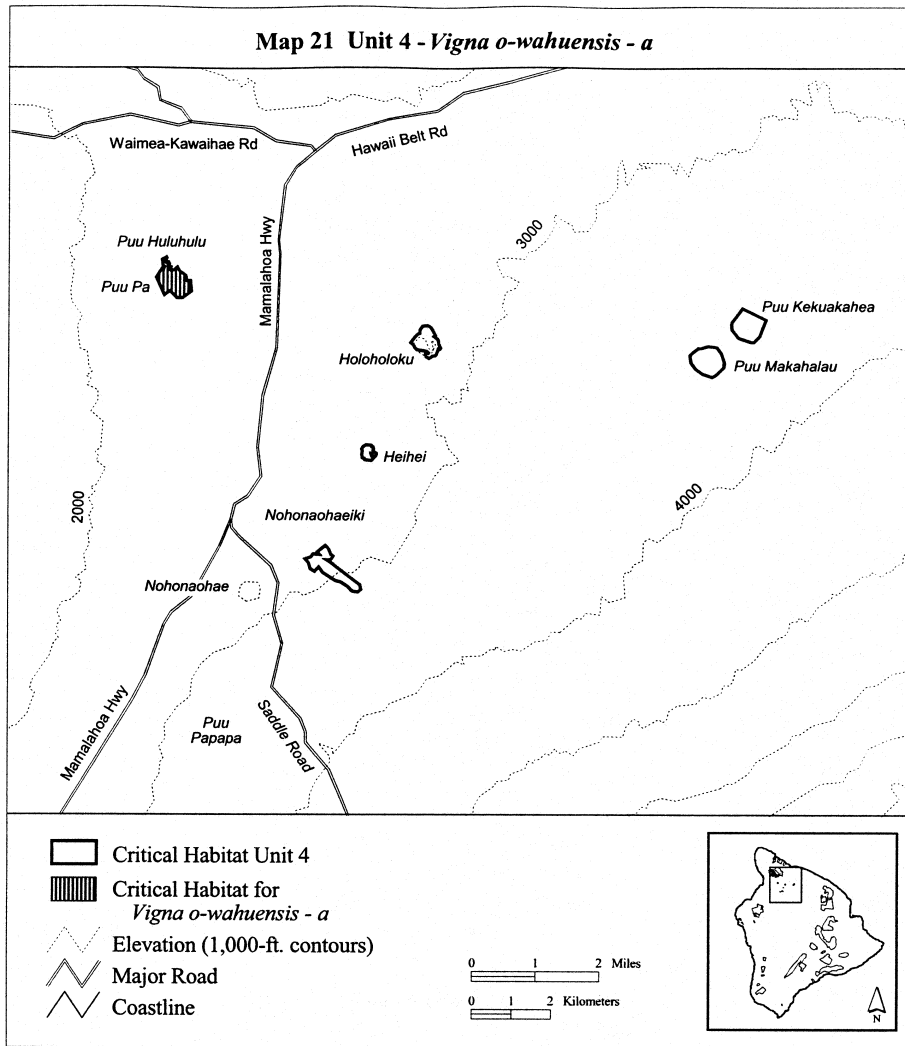
(i) [Reserved]



(28) Hawaii 4—*Vigna o-wahuensis*—a (49 ha, 121 ac)

(ii) Map 21 follows:

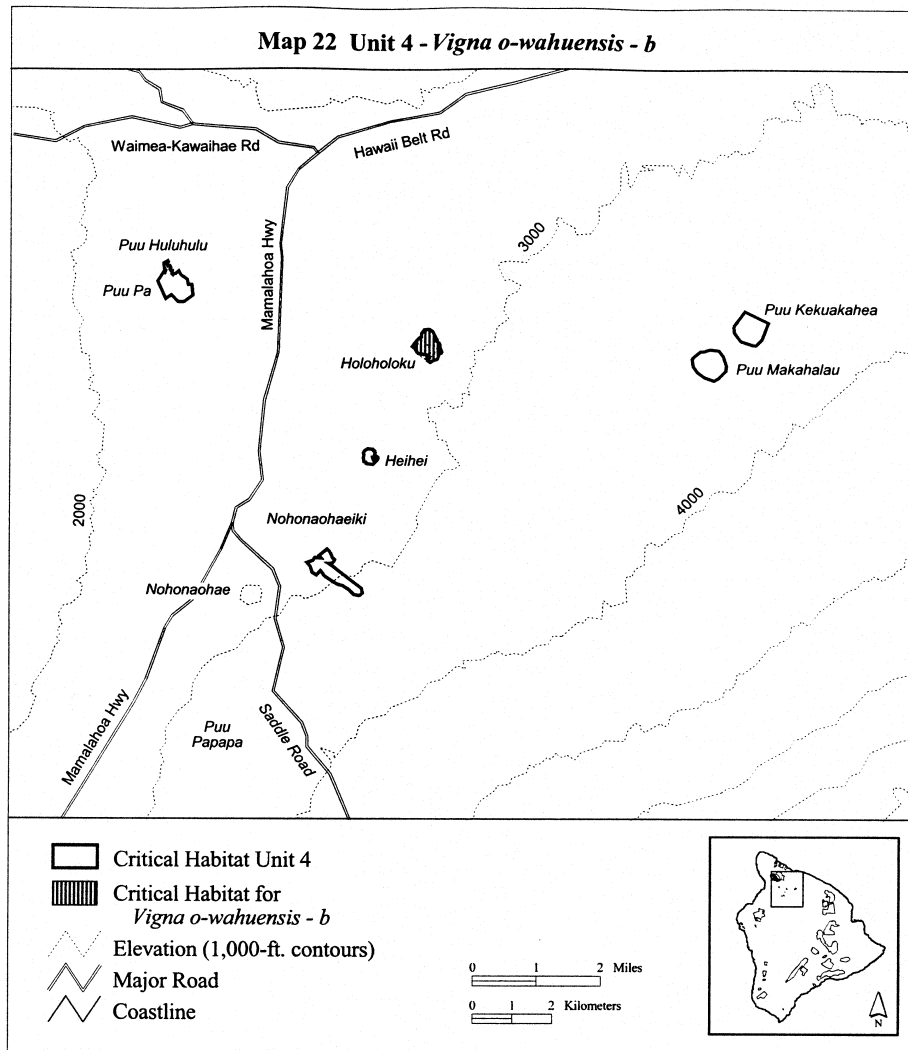
(i) [Reserved]



(29) Hawaii 4—*Vigna o-wahuensis*—b (35 ha, 87 ac)

(ii) Map 22 follows:

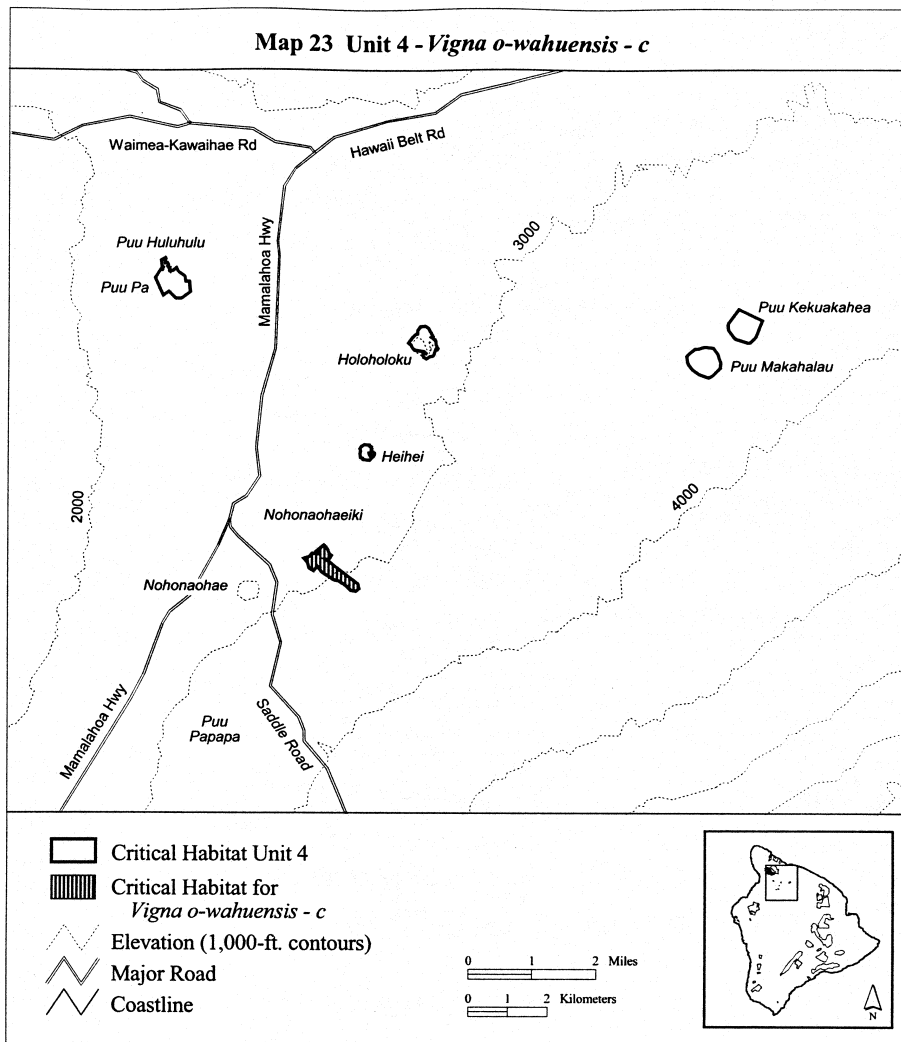
(i) [Reserved]



(30) Hawaii 4—*Vigna o-wahuensis*—c (51 ha, 127 ac)

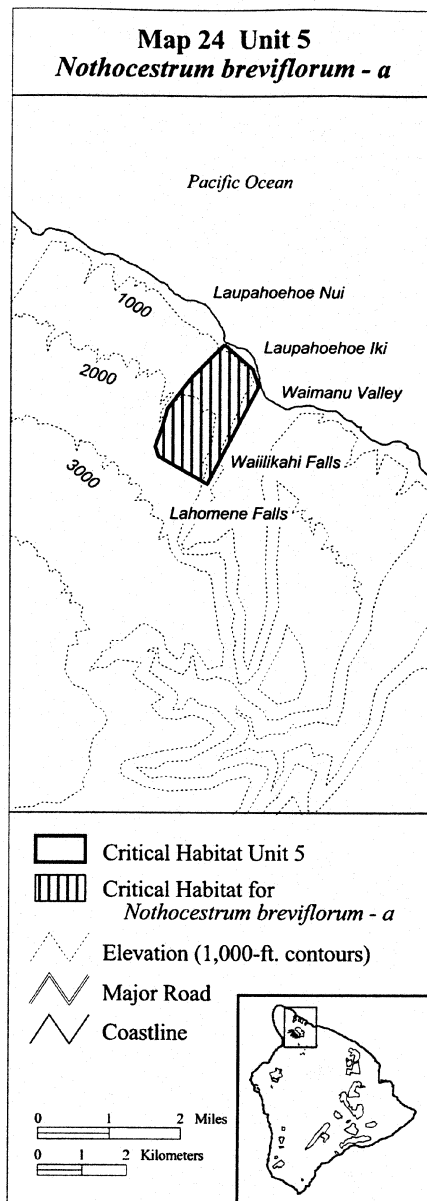
(ii) Map 23 follows:

(i) [Reserved]



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- (31) Hawaii 5—*Nothocestrum breviflorum*-a (403 ha, 995 ac)
 (i) [Reserved]
 (ii) Map 24 follows:

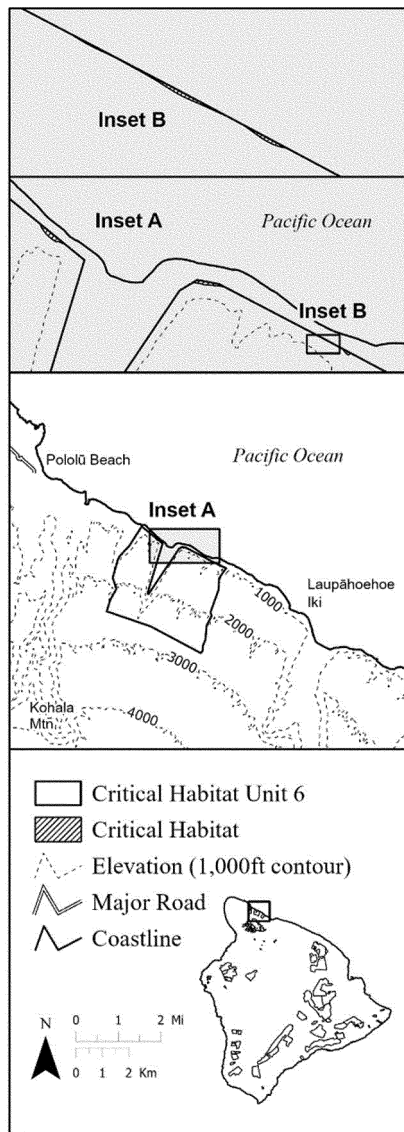


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- (32) Hawaii 6—*Bidens hillebrandiana* ssp. *hillebrandiana*-a (2 ac; 1 ha).
 (i) [Reserved]
 (ii) Map 24a follows:
 Figure 26 to paragraph (k)

MAP 24A

Hawaii 6—*Bidens hillebrandiana* ssp. *hillebrandiana*-a



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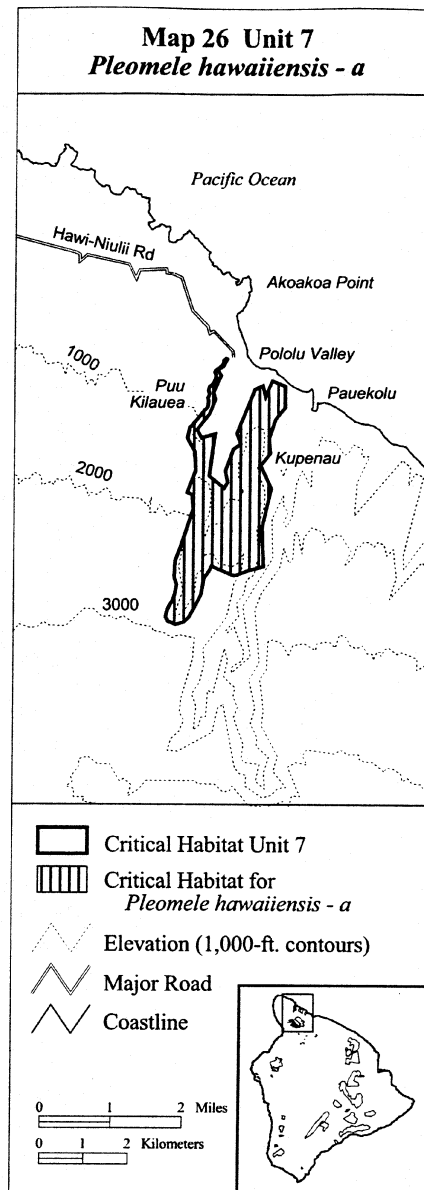
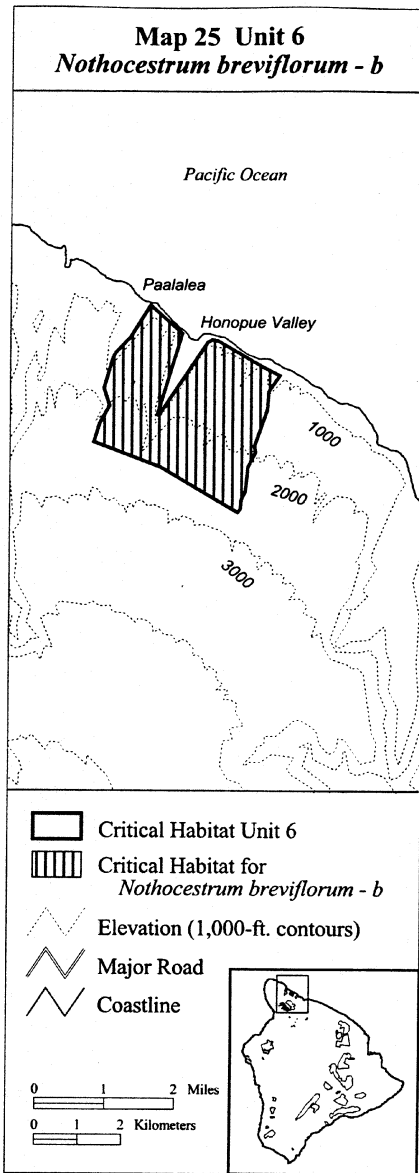
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(33) Hawaii 6—*Nothocestrum breviflorum*—b (1,113 ha, 2,750 ac)

(34) Hawaii 7—*Dracaena konaensis*—a (677 ha, 1,673 ac)

- (i) [Reserved]
- (ii) Map 25 follows:

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



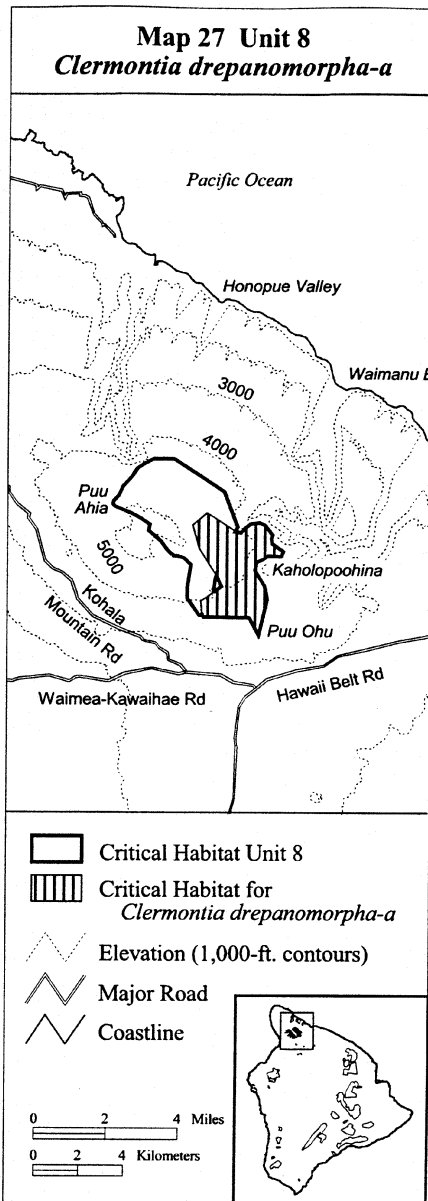
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(35) Hawaii 8—*Clermontia drepanomorpha*-a (1,906 ha, 4,709 ac)

(i) [Reserved]

(ii) Map 27 follows:



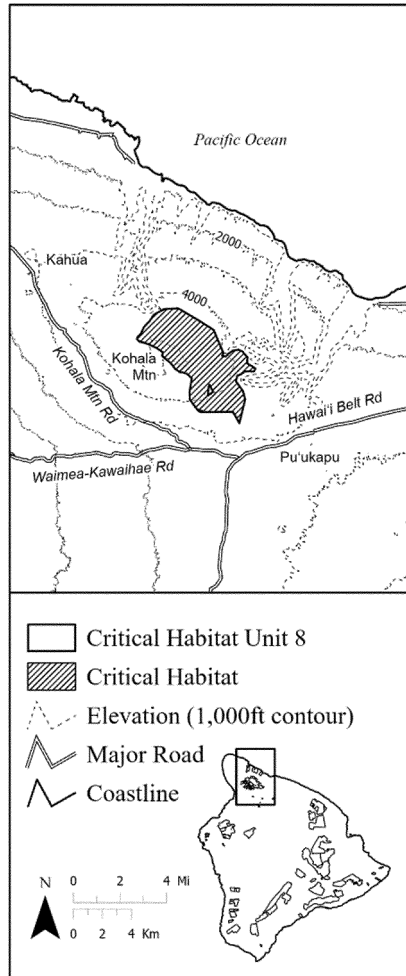
(36) Hawaii 8—*Cyanea tritomantha*-b (6,805 ac; 2,754 ha).

(i) This unit is also critical habitat for Hawaii 8—*Melicope remyi*-b, Hawaii 8—*Phyllostegia floribunda*-b, Hawaii 8—*Pittosporum hawaiiense*-b, Hawaii 8—*Schiedea diffusa* ssp. *macraei*-b, and Hawaii 8—*Stenogyne cranwelliae*-b (see paragraphs (k)(37), (k)(38), (k)(40), (k)(41), and (k)(42), respectively, of this section).

(ii) Map 27a follows:
Figure 30 to paragraph (k)

MAP 27A

Hawaii 8—*Cyanea tritomantha*-b, Hawaii 8—*Melicope remyi*-b, Hawaii 8—*Phyllostegia floribunda*-b, Hawaii 8—*Pittosporum hawaiiense*-b, Hawaii 8—*Schiedea diffusa* ssp. *macraei*-b, Hawaii 8—*Stenogyne cranwelliae*-b



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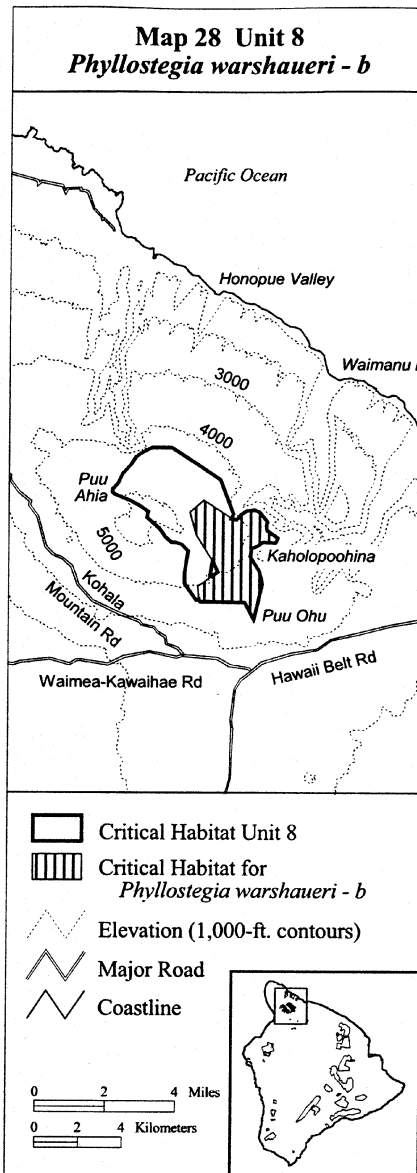
(37) Hawaii 8—*Melicope remyi*-b (6,805 ac; 2,754 ha). See paragraph (k)(36)(ii) of this section for the map of this unit.

(38) Hawaii 8—*Phyllostegia floribunda*-b (6,805 ac; 2,754 ha). See paragraph (k)(36)(ii) of this section for the map of this unit.

(39) Hawaii 8—*Phyllostegia warshaueri*-b (1,177 ha, 2,908 ac)

(i) [Reserved]

(ii) Map 28 follows:



(40) Hawaii 8—*Pittosporum hawaiiense*-b (6,805 ac; 2,754 ha). See paragraph (k)(36)(ii) of this section for the map of this unit.

(41) Hawaii 8—*Schiedea diffusa* ssp. *macraei*-b (6,805 ac; 2,754 ha). See paragraph (k)(36)(ii) of this section for the map of this unit.

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(42) Hawaii 8—*Stenogyne cranwelliae*-b (6,805 ac; 2,754 ha). See paragraph (k)(36)(ii) of this section for the map of this unit.

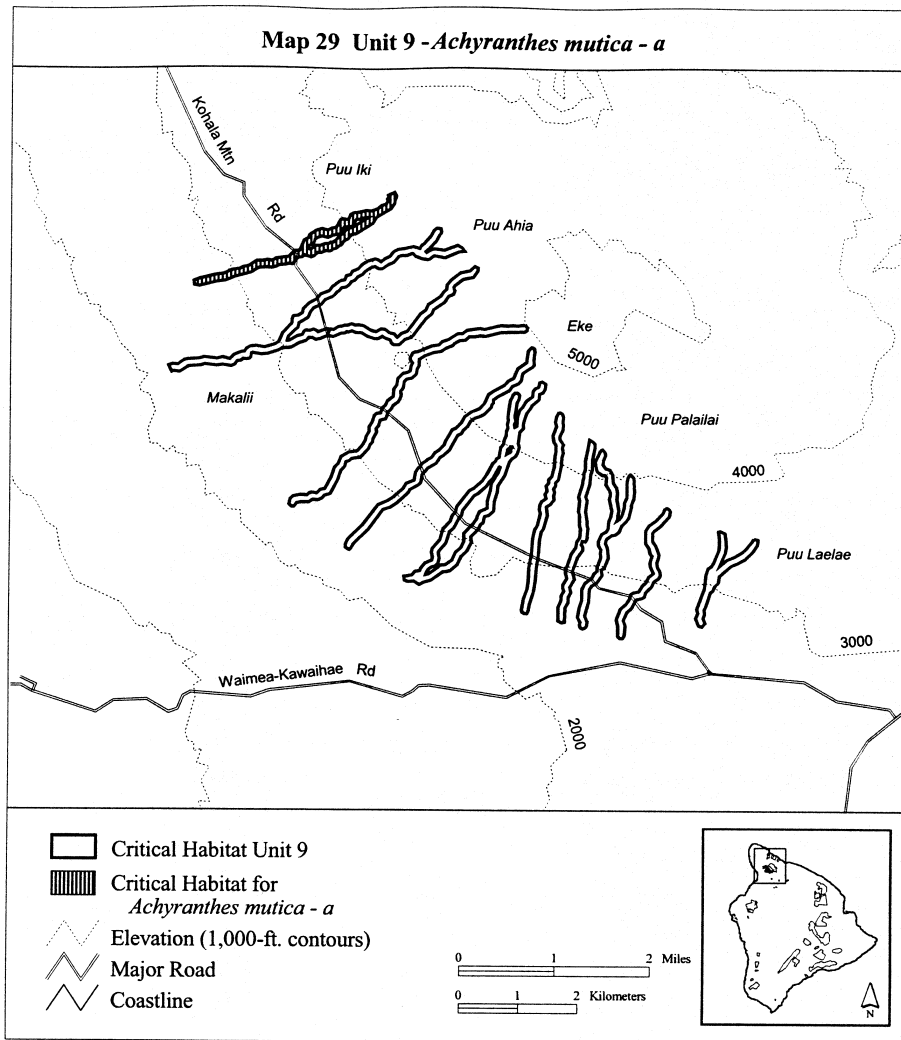
(43) Hawaii 9—*Achyranthes mutica*—a (63 ha, 157 ac)

(i) [Reserved]

(ii) Excluding one area bounded by the following 31 points (8 ha, 19 ac): Start at 211235, 2224062; 211172, 2224016; 211129, 2224012; 211093, 2223986; 211042,

2223992; 210945, 2223954; 210872, 2223952; 210792, 2223885; 210751, 2223908; 210770, 2223960; 210841, 2223994; 210870, 2224063; 210928, 2224102; 210992, 2224116; 211080, 2224094; 211174, 2224135; 211293, 2224156; 211335, 2224196; 211345, 2224253; 211373, 2224282; 211439, 2224272; 211501, 2224297; 211562, 2224404; 211619, 2224407; 211657, 2224425; 211731, 2224441; 211766, 2224436; 211506, 2224267; 211403, 2224240; 211340, 2224159; 211274, 2224128; return to starting point.

(iii) Map 29 follows:

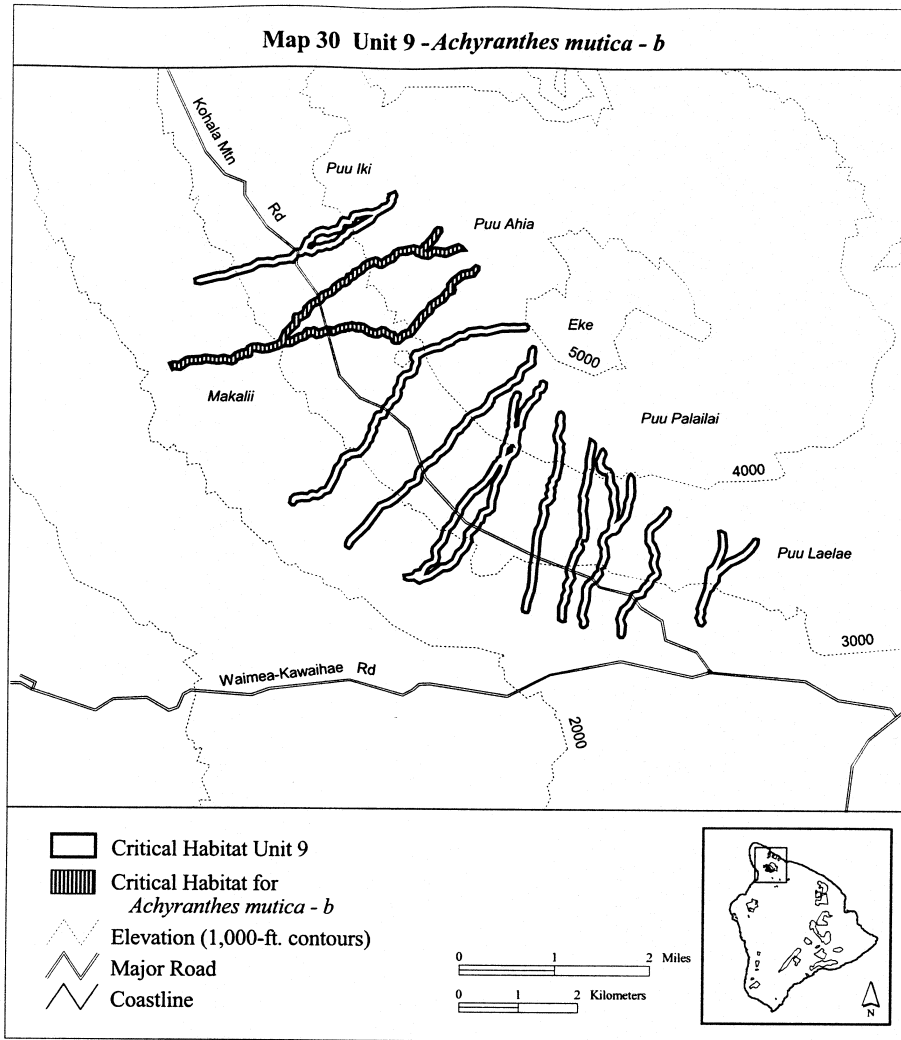


(44) Hawaii 9—*Achyranthes mutica*—b
 (124 ha, 306 ac)

- (i) [Reserved]
- (ii) Excluding one area bounded by the following five points (<1 ha, <1 ac):

Start at 211099, 2222496; 211109, 2222499; 211114, 2222499; 211118, 2222497; 211103, 2222479; return to starting point.

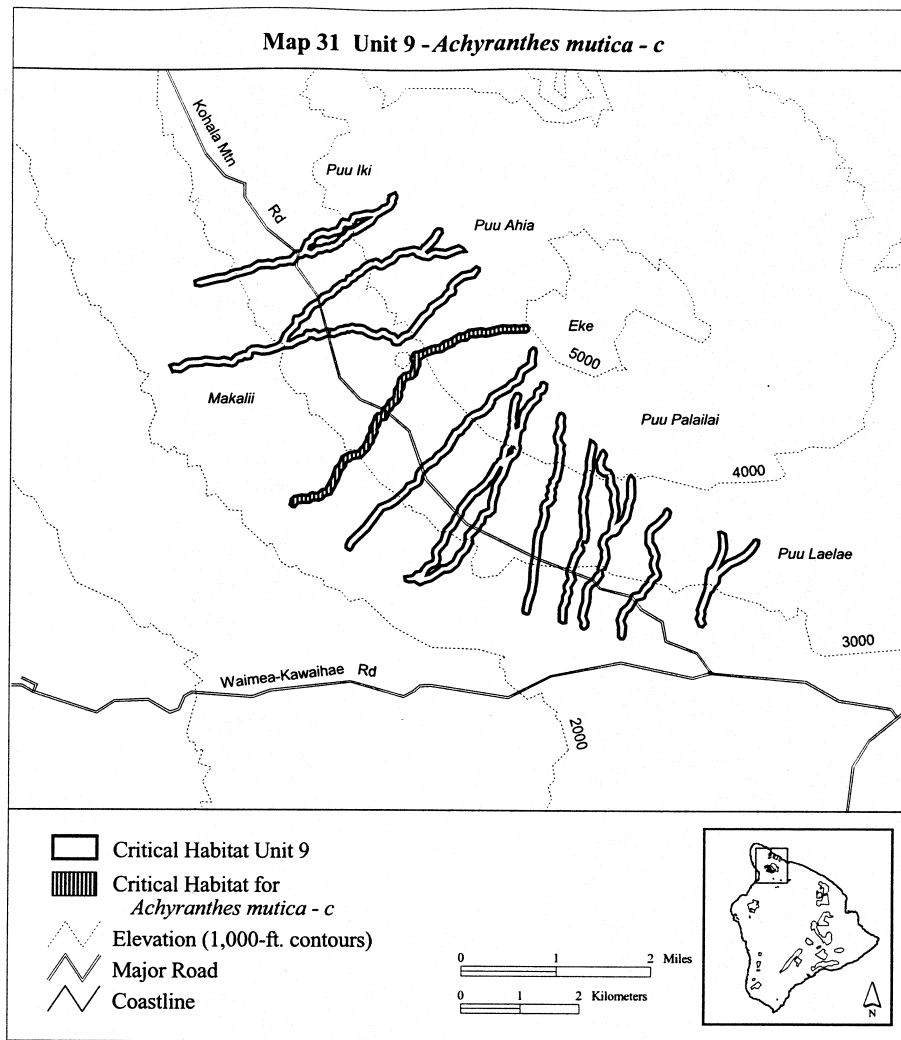
(iii) Map 30 follows:



(45) Hawaii 9—*Achyranthes mutica*—c (67 ha, 166 ac)

(ii) Map 31 follows:

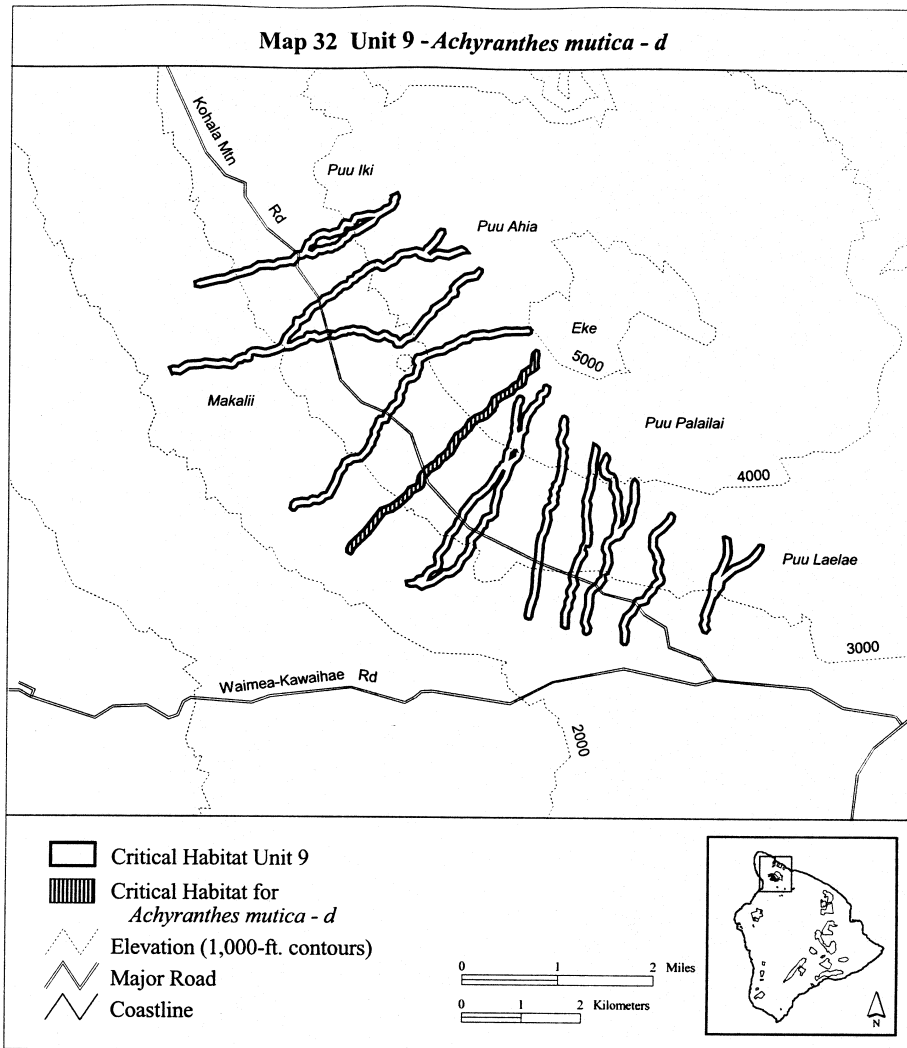
(i) [Reserved]



(46) Hawaii 9—*Achyranthes mutica*—d (58 ha, 143 ac)

(ii) Map 32 follows:

(i) [Reserved]



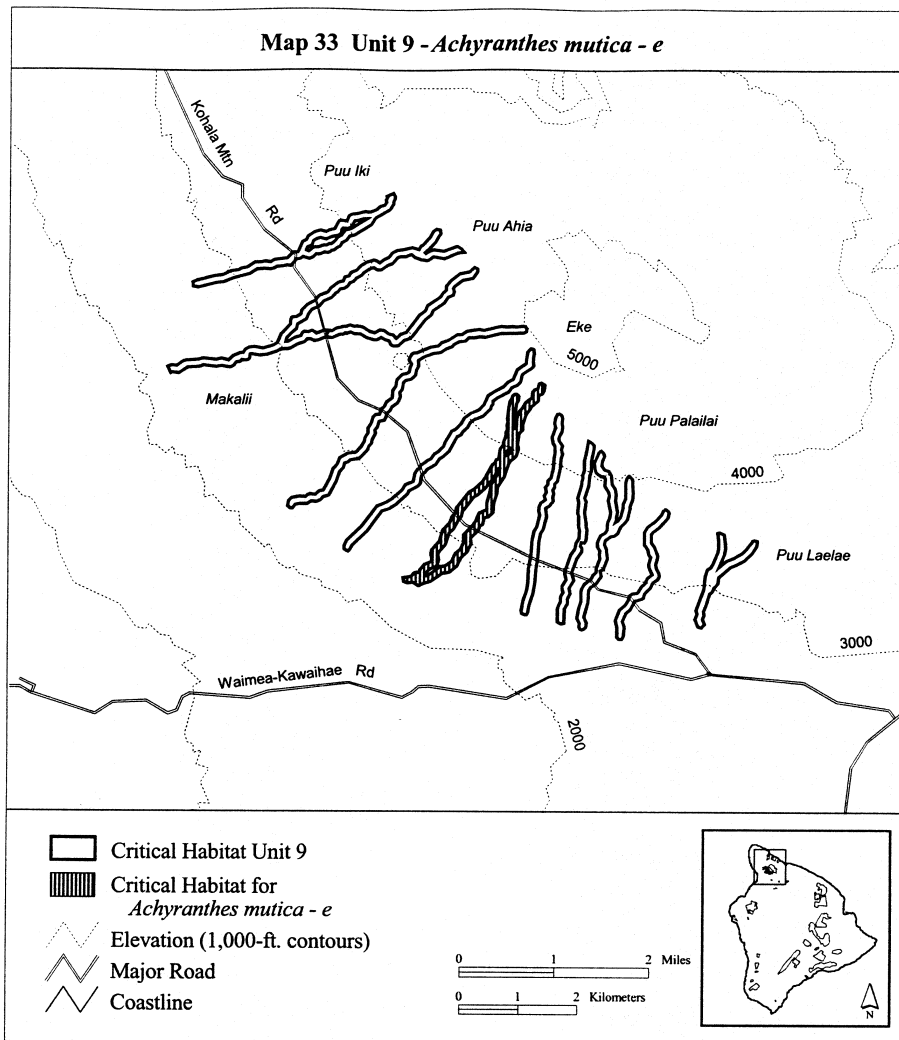
(47) Hawaii 9—*Achyranthes mutica*—e (96 ha, 238 ac)

- (i) [Reserved]
- (ii) Excluding two areas:

(A) Bounded by the following seven points (1 ha, 1 ac): Start at 214223, 2220569; 214237, 2220545; 214219, 2220515; 214216, 2220461; 214146, 2220412; 214161, 2220500; 214199, 2220523; return to starting point.

(B) Bounded by the following 42 points (38 ha, 94 ac): Start at 214049, 2220213; 214008, 2220110; 213892, 2219916; 213877, 2219786; 213826, 2219614; 213823, 2219491; 213696, 2219433; 213663, 2219365; 213649, 2219307; 213619, 2219275; 213591, 2219218; 213434, 2219056; 213440, 2218923; 213385, 2218816; 213302, 2218748; 213232, 2218602; 213126, 2218523; 213033, 2218514; 212998, 2218479; 212834, 2218368; 212794, 2218356; 212809, 2218402; 212825, 2218431; 212855, 2218461; 212888, 2218485; 212953,

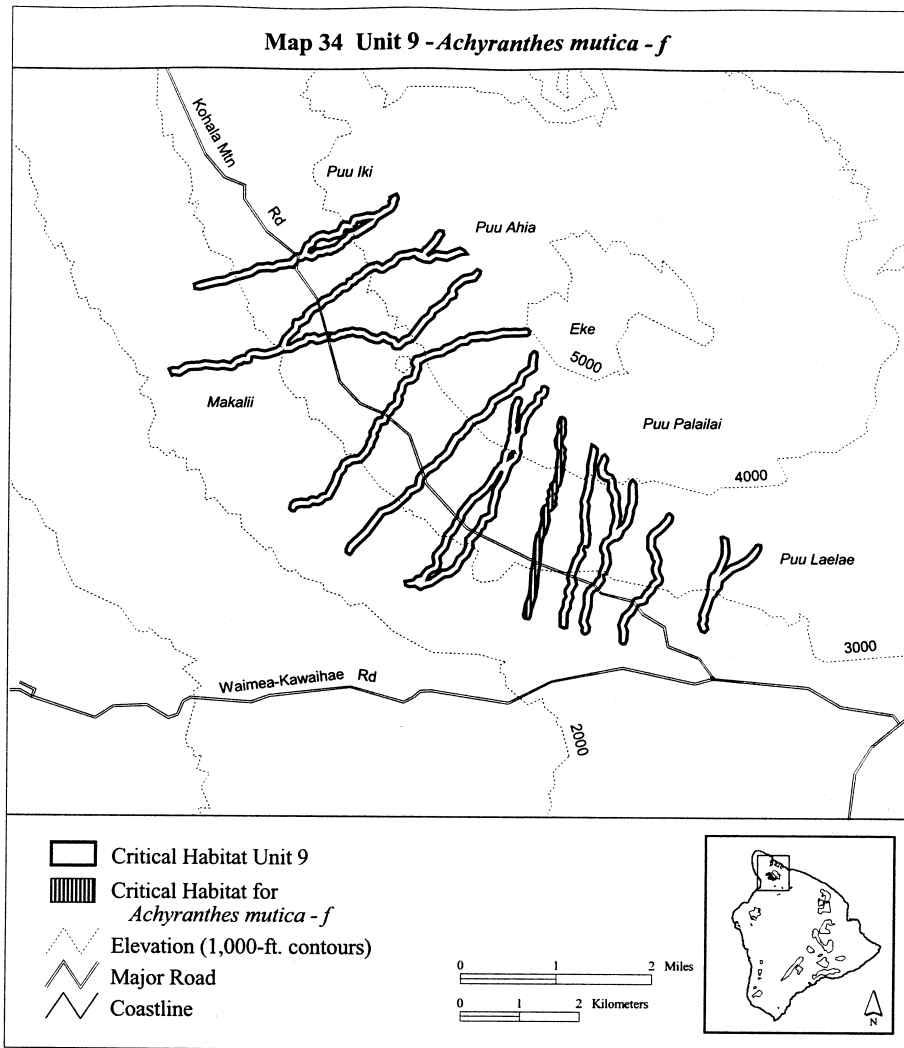
2218499; 212996, 2218545; 213022, 2218636; 213820, 2219870; 213852, 2219933; 213913,
 213007, 2218725; 213013, 2218754; 213131, 2219992; 214024, 2220195; return to start-
 2218887; 213194, 2219087; 213261, 2219149; ing point.
 213346, 2219306; 213394, 2219361; 213412, (iii) Map 33 follows:
 2219449; 213602, 2219700; 213668, 2219734;



(48) Hawaii 9—*Achyranthes mutica*—f (43 ha, 105 ac)

(ii) Map 34 follows:

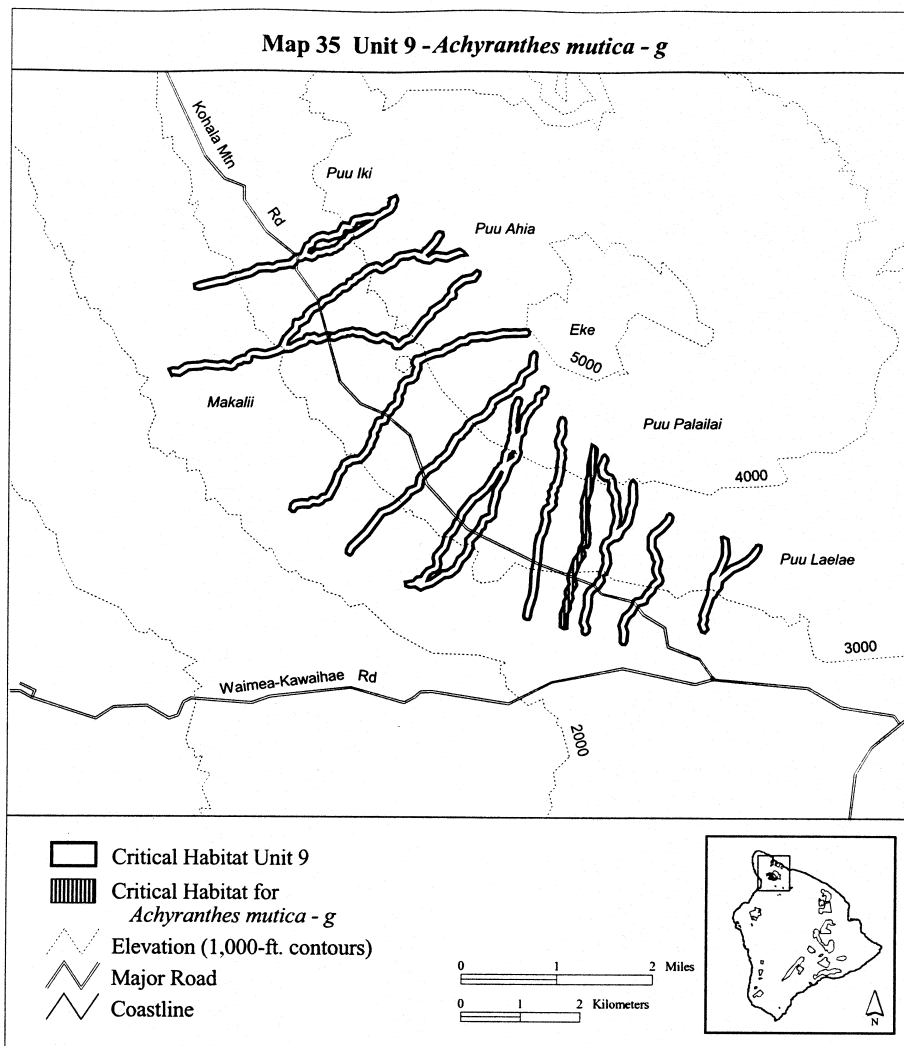
(i) [Reserved]



(49) Hawaii 9—*Achyranthes mutica*—g (37 ha, 92 ac)

(ii) Map 35 follows:

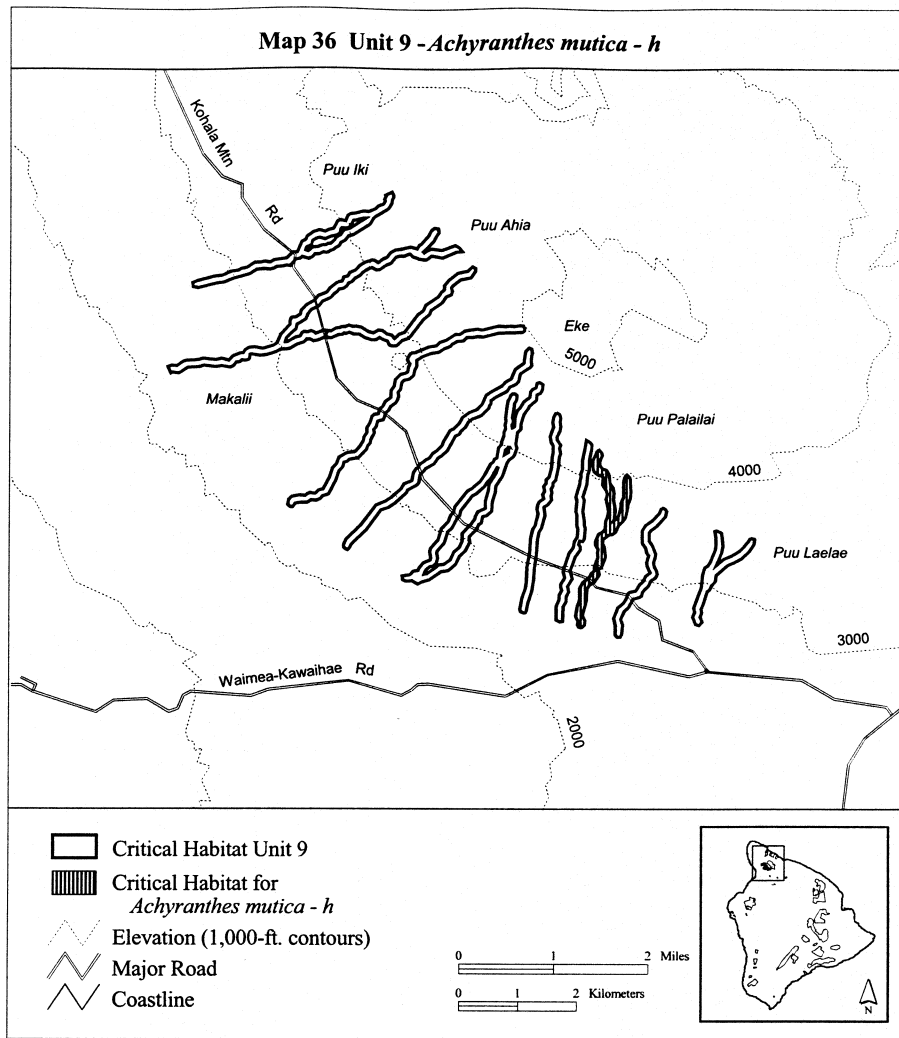
(i) [Reserved]



(50) Hawaii 9—*Achyranthes mutica*—h
 (51 ha, 127 ac)

(ii) Map 36 follows:

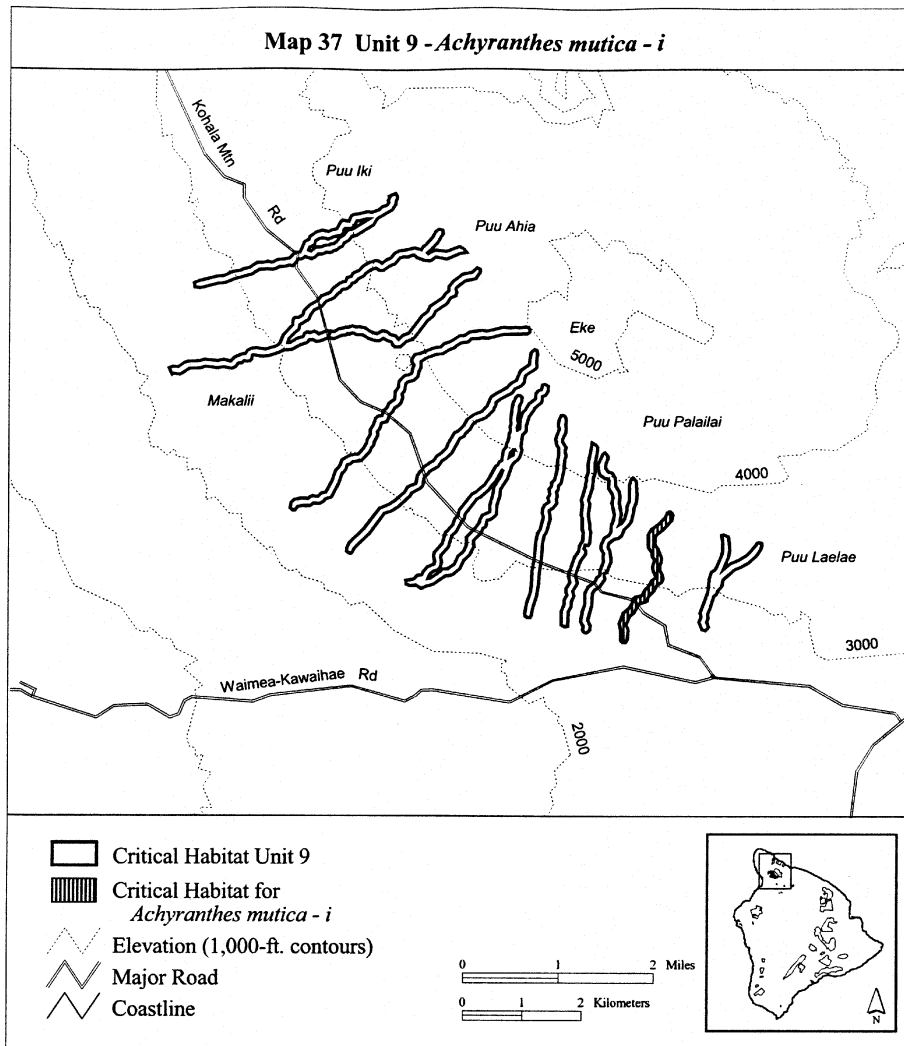
(i) [Reserved]



(51) Hawaii 9—*Achyranthes mutica*—i (31 ha, 76 ac)

(ii) Map 37 follows:

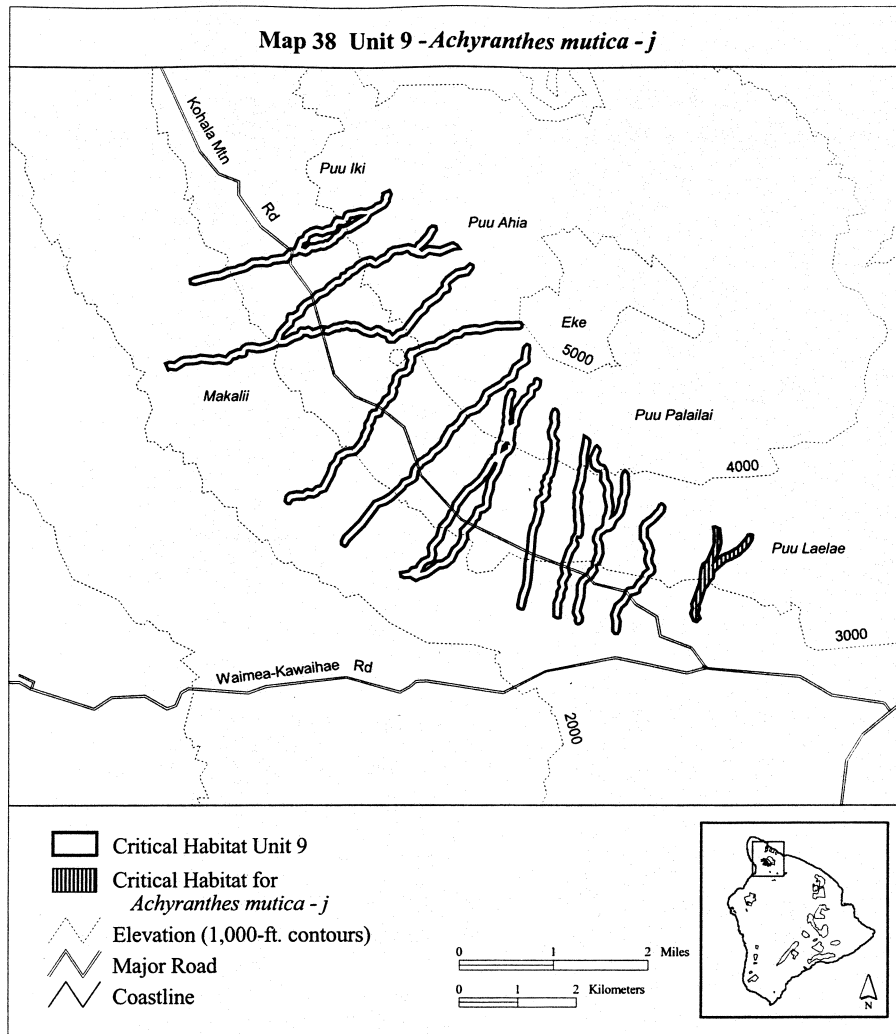
(i) [Reserved]



(52) Hawaii 9—*Achyranthes mutica*—j (33 ha, 81 ac)

(ii) Map 38 follows:

(i) [Reserved]



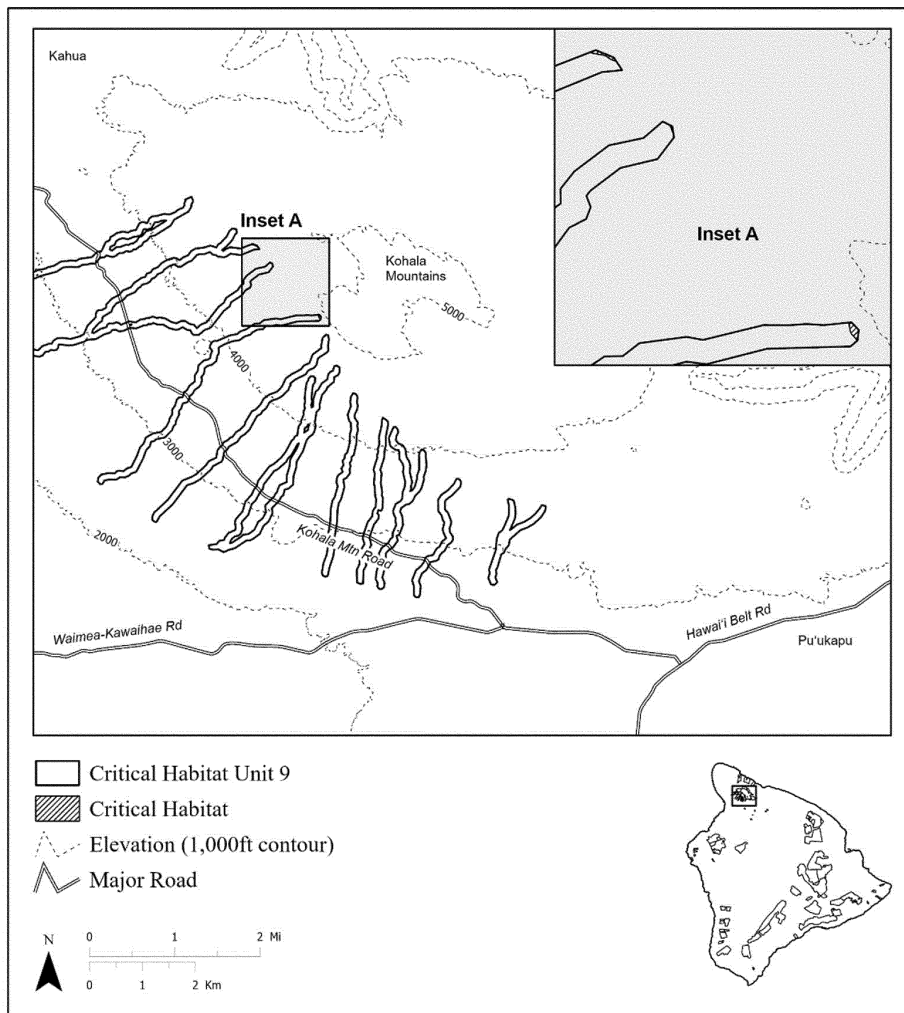
(53) Hawaii 9—*Cyanea tritomantha*-c (1 ac; <1 ha).

(i) This unit is also critical habitat for Hawaii 9—*Melicope remyi*-c, Hawaii 9—*Phyllostegia floribunda*-c, Hawaii 9—*Pittosporum hawaiiense*-c, Hawaii 9—*Schiedea diffusa* ssp. *macraei*-c, and Hawaii 9—*Stenogyne cranwelliae*-c (see paragraphs (k)(54), (k)(55), (k)(56), (k)(57), and (k)(58) respectively, of this section).

(ii) Map 38a follows:
Figure 42 to paragraph (k)

MAP 38A

Hawaii 9—*Cyanea tritomantha*-c, Hawaii 9—*Melicope remyi*-c, Hawaii 9—*Phyllostegia floribunda*-c, Hawaii 9—*Pittosporum hawaiiense*-c, Hawaii 9—*Schiedea diffusa* ssp. *macraei*-c, Hawaii 9—*Stenogyne cranwelliae*-c



(54) Hawaii 9—*Melicope remyi-c* (1 ac; <1 ha). See paragraph (k)(53)(ii) of this section for the map of this unit.

(55) Hawaii 9—*Phyllostegia floribunda-c* (1 ac; <1 ha). See paragraph (k)(53)(ii) of this section for the map of this unit.

(56) Hawaii 9—*Pittosporum hawaiiense-c* (1 ac; <1 ha). See paragraph (k)(53)(ii) of this section for the map of this unit.

(57) Hawaii 9—*Schiedea diffusa* ssp. *macraei-c* (1 ac; <1 ha). See paragraph (k)(53)(ii) of this section for the map of this unit.

(58) Hawaii 9—*Stenogyne cranwelliae-c* (1 ac; <1 ha). See paragraph (k)(53)(ii) of this section for the map of this unit.

(59) Hawaii 10—*Hibiscadelphus hualalaiensis-a* (3,979 ha, 9,831 ac)

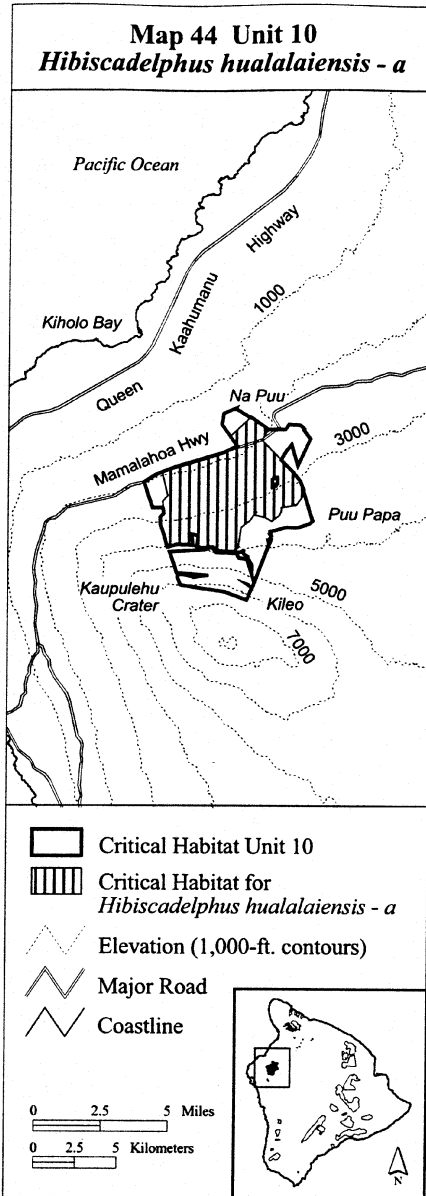
(i) [Reserved]

(ii) Excluding one area bounded by the following 12 points (15 ha, 38 ac): Start at 202034, 2189562; 202141, 2189566; 202153, 2189649; 202308, 2189645; 202298, 2189564; 202339, 2189548; 202329, 2189219; 202193, 2189187; 202230, 2189088; 202042,

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2189024; 202020, 2189151; 202024, 2189554;
return to starting point.

(iii) Map 44 follows:



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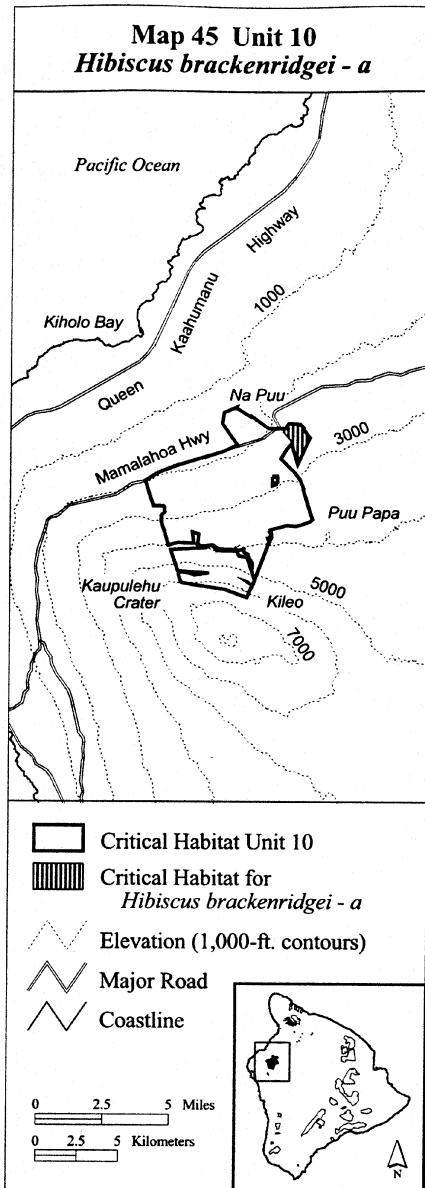
(61) Hawaii 10—*Mezoneuron kawaiense*—a (1,179 ha; 2,914 ac). See paragraph (k)(40)(ii) of this section for the map of this unit.

(62) Hawaii 10—*Hibiscus brackenridgei*—a (196 ha, 485 ac)

(i) [Reserved]

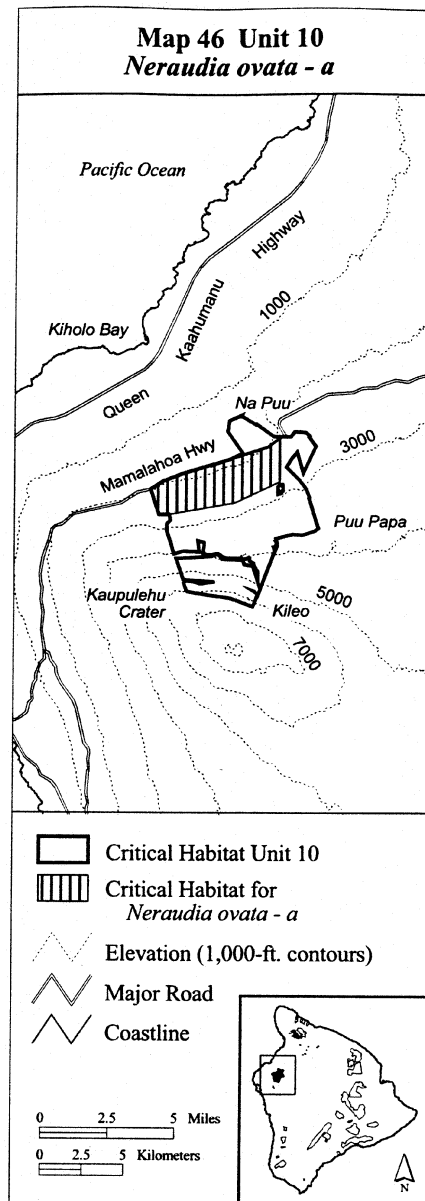
(ii) Map 45 follows:

(60) Hawaii 10—*Isodendrion pyriformum*—a (1,179 ha; 2,914 ac). See paragraph (k)(40)(ii) of this section for the map of this unit.



(63) Hawaii 10—*Neraudia ovata*—a (1,859 ha, 4,593 ac)

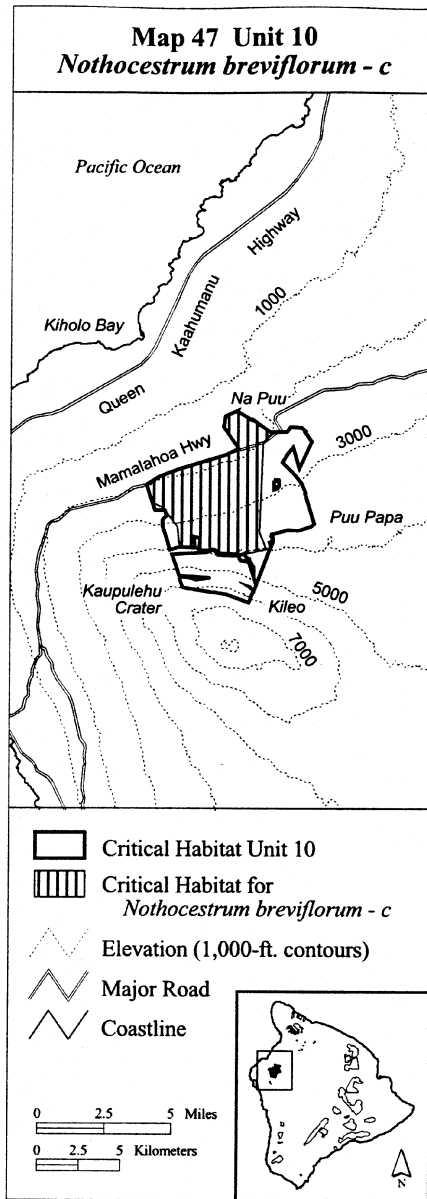
- (i) [Reserved]
- (ii) Map 46 follows:



(64) Hawaii 10—*Nothocestrum breviflorum*—c (3,627 ha, 8,964 ac)

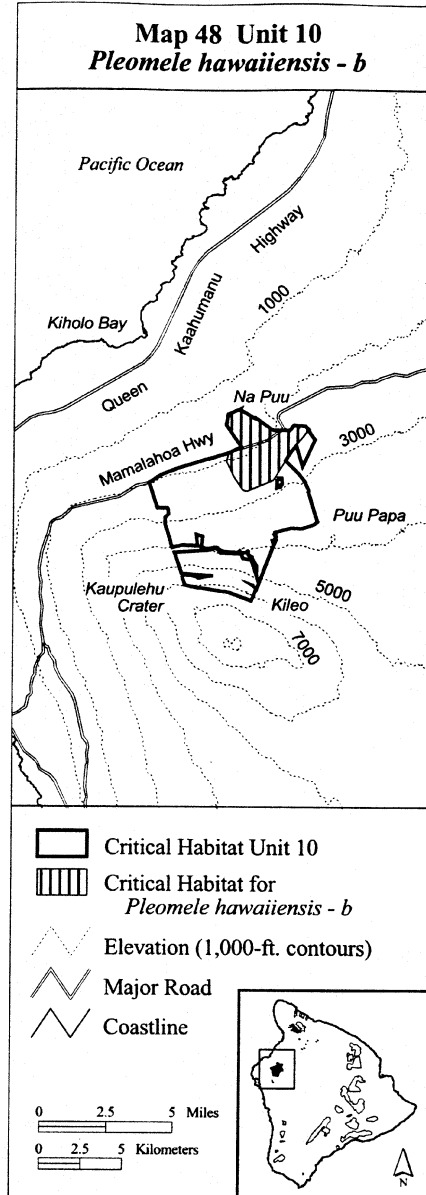
- (i) [Reserved]
- (ii) Map 47 follows:

is equivalent to “Hawaii 10—*Dracaena konaensis*—b”. Map 48 follows:



(65) Hawaii 10—*Dracaena konaensis*—b
(1,338 ha, 3,306 ac)

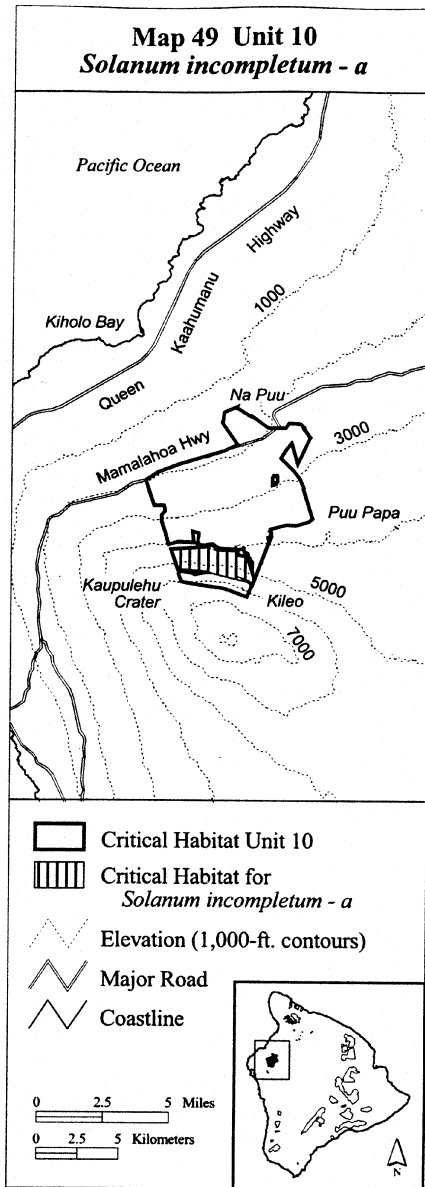
- (i) [Reserved]
- (ii) Note: The reference to “Hawaii 10—*Pleomele hawaiiensis*—b” on the map



(66) Hawaii 10—*Solanum incompletum*—a
(705 ha, 1,741 ac)

- (i) [Reserved]

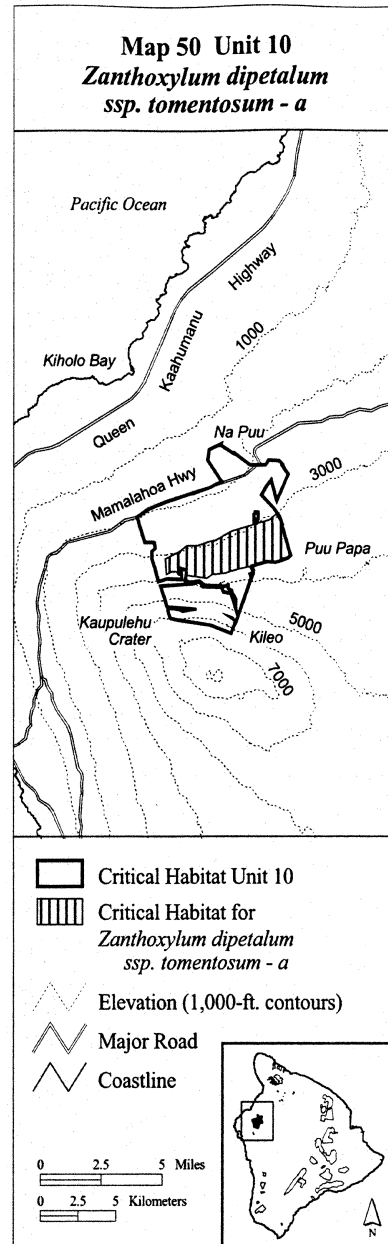
(ii) Map 49 follows:



(67) Hawaii 10—*Zanthoxylum dipetalum* ssp. *tomentosum*—a (1,685 ha, 4,164 ac)

(i) [Reserved]

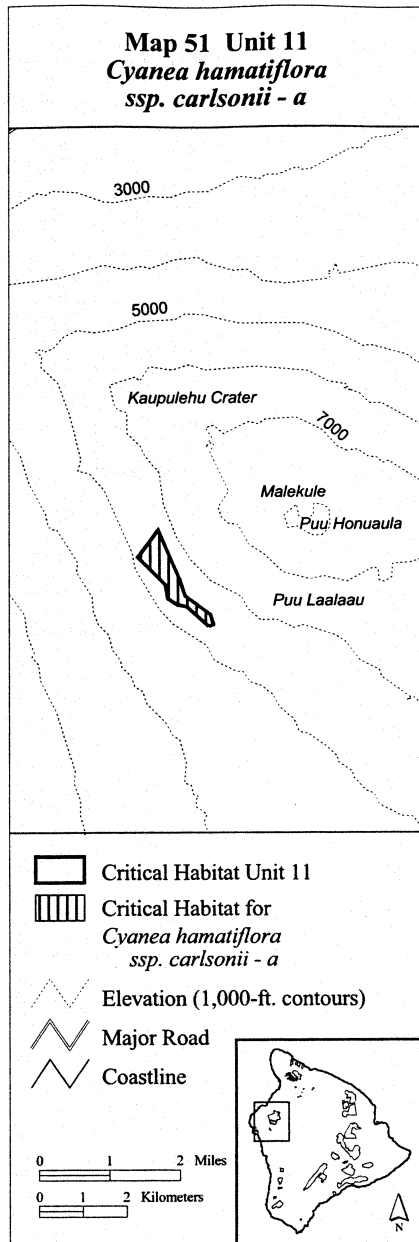
(ii) Map 50 follows:



(68) Hawaii 11—*Cyanea hamatiflora* ssp. *carlsonii*—a (92 ha, 227 ac)

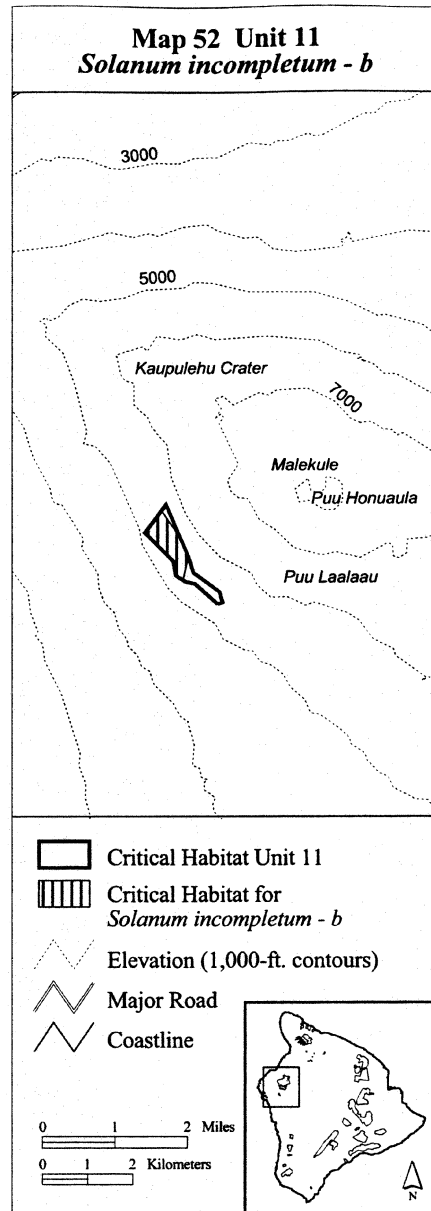
(i) [Reserved]

(ii) Map 51 follows:



(69) Hawaii 11—*Solanum incompletum*—b (57 ha, 141 ac)

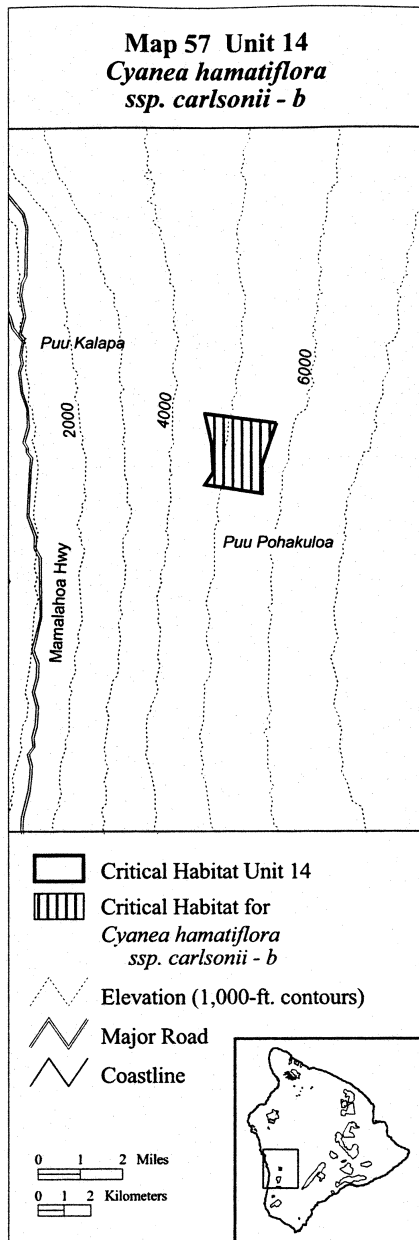
- (i) [Reserved]
- (ii) Map 52 follows:



(70) [Reserved]

(71) Hawaii 14—*Cyanea hamatiflora* ssp. *carlsonii*—b (597 ha, 1,475 ac)

- (i) [Reserved]
- (ii) Map 57 follows:

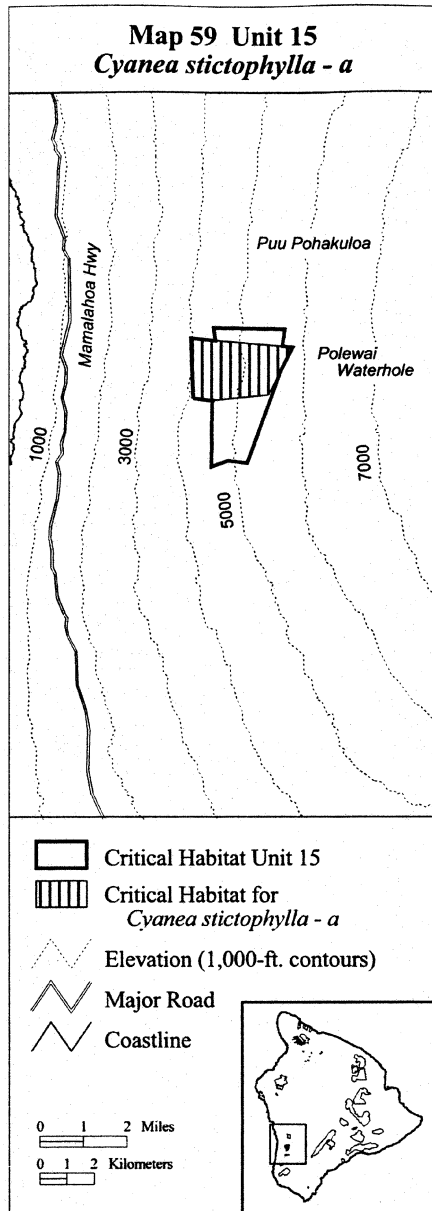


(72) Hawaii 15—*Cyanea hamatiflora* *ssp. carlsonii*—c (1,045 ha, 2,583 ac)

- (i) [Reserved]
- (ii) Map 58 follows:

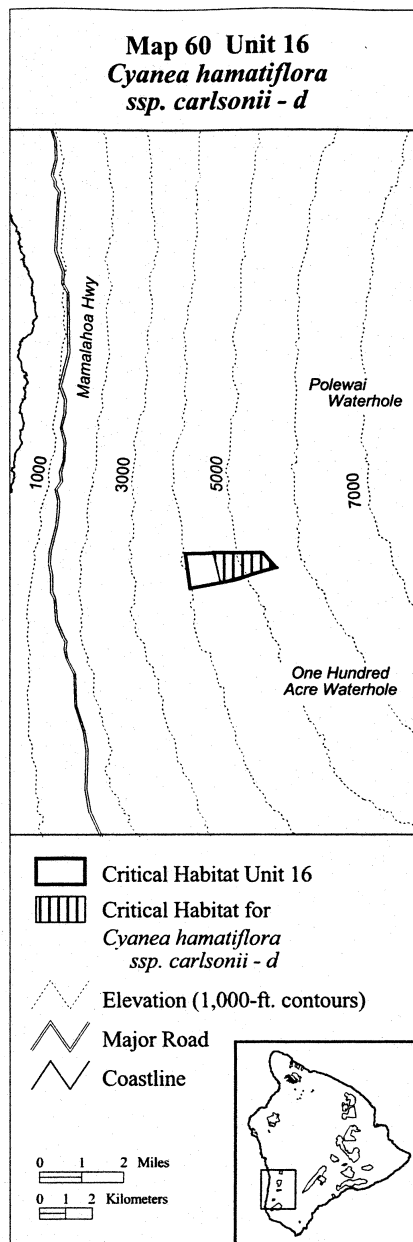
(73) Hawaii 15—*Cyanea stictophylla*—a (685 ha, 1,693 ac)

- (i) [Reserved]
- (ii) Map 59 follows:



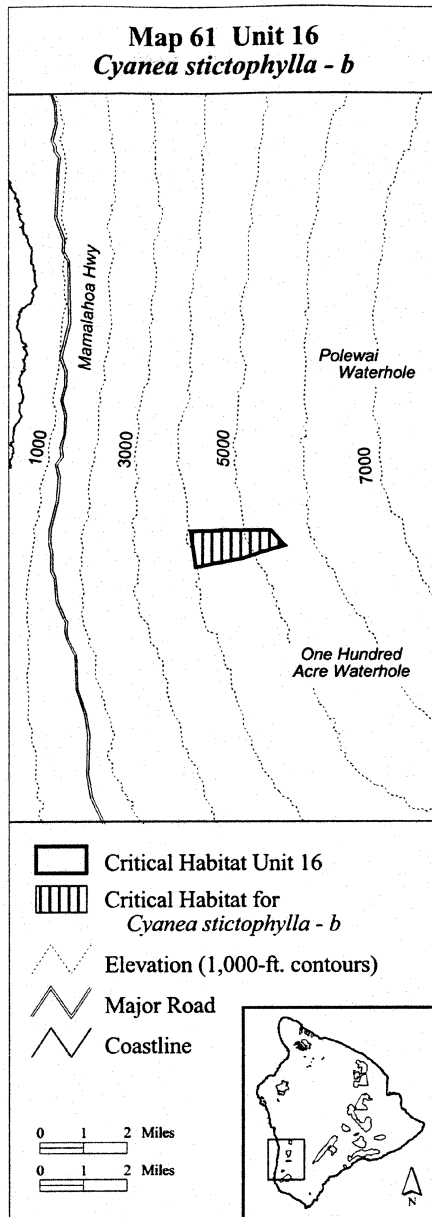
(74) Hawaii 16—*Cyanea hamatiflora* ssp. *carlsonii*—d (186 ha, 459 ac)

- (i) [Reserved]
- (ii) Map 60 follows:



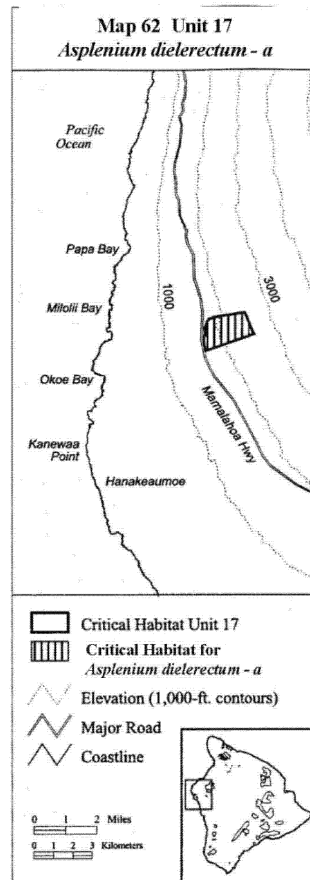
(75) Hawaii 16—*Cyanea stictophylla*—b (327 ha, 809 ac)

- (i) [Reserved]
- (ii) Map 61 follows:



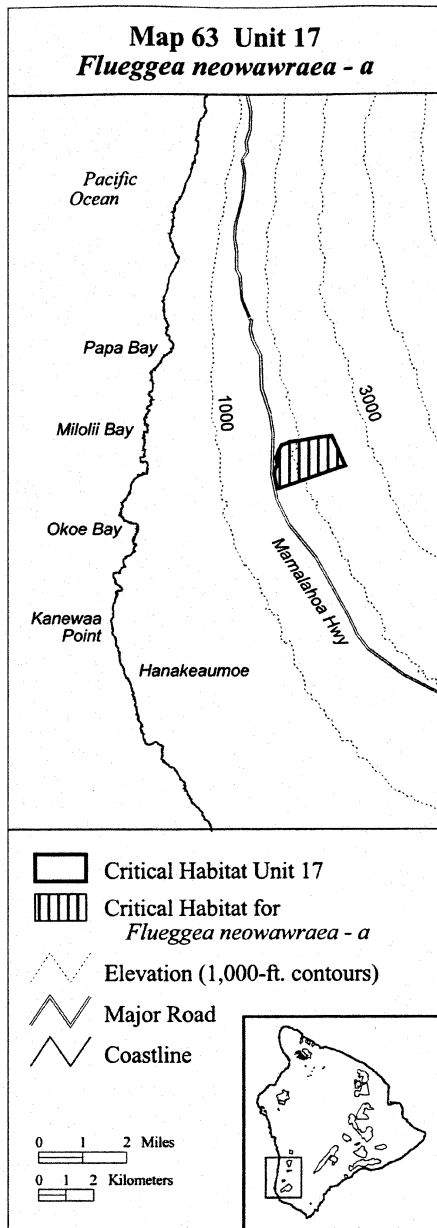
(76) Hawaii 17—*Asplenium dielirectum*—a
(329 ha, 814 ac)

- (i) [Reserved]
- (ii) Map 62 follows:



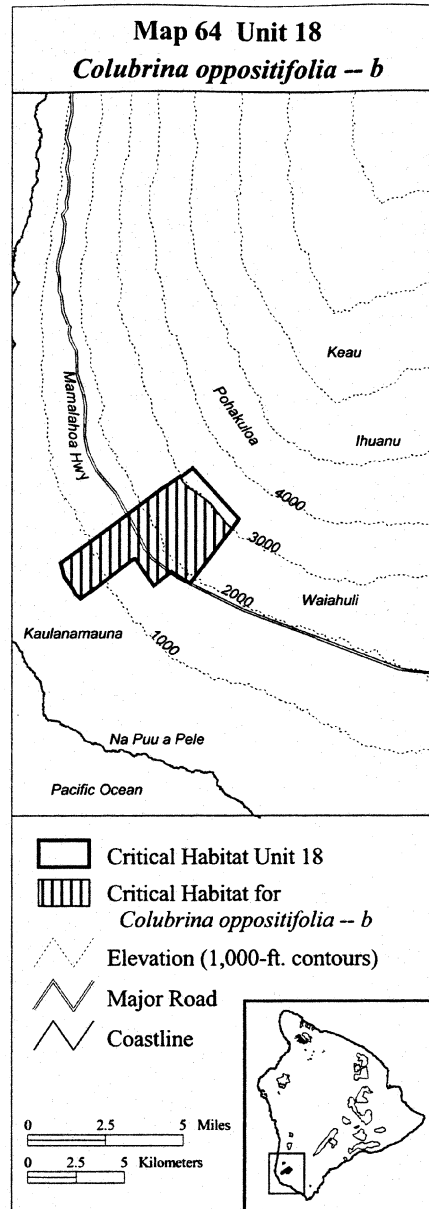
(77) Hawaii 17—*Flueggea neowawraea*—a
(327 ha, 807 ac)

- (i) [Reserved]
- (ii) Map 63 follows:



(78) Hawaii 18—*Colubrina oppositifolia*—
b (2,717 ha, 6,713 ac)

- (i) [Reserved]
- (ii) Map 64 follows:



(79) Hawaii 15—*Cyanea marksii*-a-Section 4 (182 ac; 73 ha).

- (i) This unit is also critical habitat for Hawaii 15—*Phyllostegia floribunda*-d-Section 4, Hawaii 15—*Pittosporum hawaiiense*-d-Section 4, Hawaii 15—*Schiedea diffusa* ssp. *macraei*-d-Section

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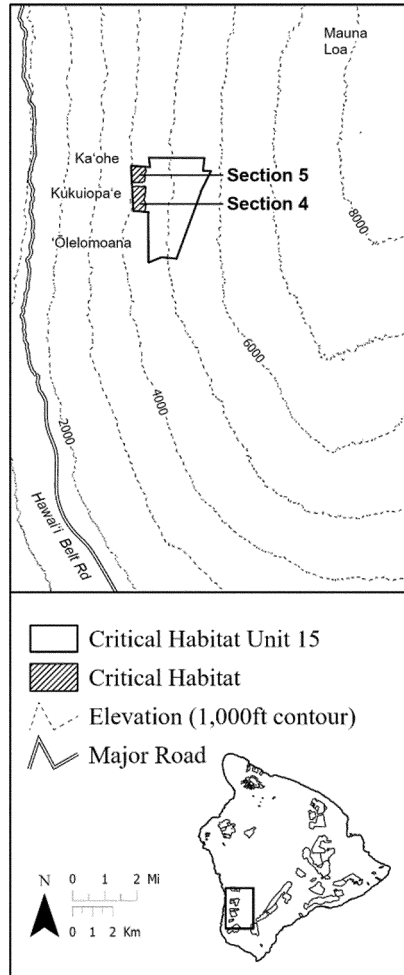
4, and Hawaii 15-*Stenogyne cranwelliae*-d-Section 4 (see paragraphs (k)(82), (k)(84), (k)(86), and (k)(88), respectively, of this section).

(ii) Map 58a follows:
Figure 60 to paragraph (k)

MAP 58A

Hawaii 15-*Cyanea marksii*-a-Section 4,
Hawaii 15-*Cyanea marksii*-b-Section 5,

Hawaii 15-*Phyllostegia floribunda*-d-Section 4, Hawaii 15-*Phyllostegia floribunda*-e-Section 5, Hawaii 15-*Pittosporum hawaiiense*-d-Section 4, Hawaii 15-*Pittosporum hawaiiense*-e-Section 5, Hawaii 15-*Schiedea diffusa* ssp. *macraei*-d-Section 4, Hawaii 15-*Schiedea diffusa* ssp. *macraei*-e-Section 5, Hawaii 15-*Stenogyne cranwelliae*-d-Section 4, Hawaii 15-*Stenogyne cranwelliae*-e-Section 5



(80) Hawaii 15-*Cyanea marksii*-b-Section 5 (127 ac; 51 ha).

(i) This unit is also critical habitat for Hawaii 15-*Phyllostegia floribunda*-e-

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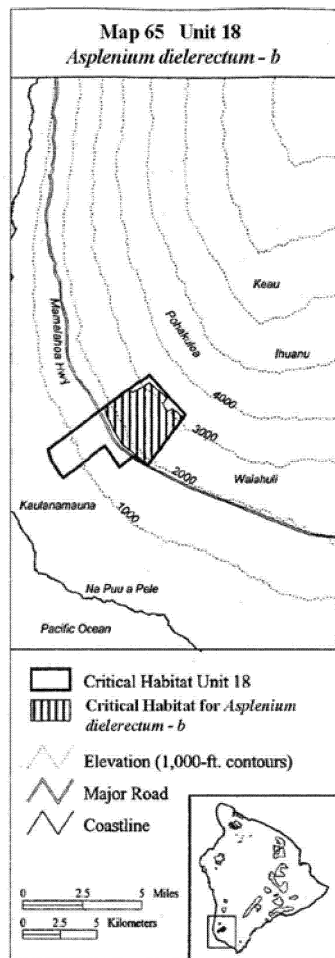
Section 5, Hawaii 15-*Pittosporum hawaiiense*-e-Section 5, Hawaii 15-*Schiedea diffusa* ssp. *macraei*-e-Section 5, and Hawaii 15-*Stenogyne cranwelliae*-e-Section 5 (see paragraphs (k)(83), (k)(85), (k)(87), and (k)(89), respectively, of this section).

(ii) See paragraph (k)(79)(ii) of this section for the map of this unit.

(81) Hawaii 18-*Asplenium dielirectum*-b (1,615 ha, 3,992 ac)

(i) [Reserved]

(ii) Map 65 follows:



(82) Hawaii 15-*Phyllostegia floribunda*-d-Section 4 (182 ac; 73 ha). See para-

graph (k)(79)(ii) of this section for the map of this unit.

(83) Hawaii 15-*Phyllostegia floribunda*-e-Section 5 (127 ac; 51 ha). See paragraph (k)(79)(ii) of this section for the map of this unit.

(84) Hawaii 15-*Pittosporum hawaiiense*-d-Section 4 (182 ac; 73 ha). See paragraph (k)(79)(ii) of this section for the map of this unit.

(85) Hawaii 15-*Pittosporum hawaiiense*-e-Section 5 (127 ac; 51 ha). See paragraph (k)(79)(ii) of this section for the map of this unit.

(86) Hawaii 15-*Schiedea diffusa* ssp. *macraei*-d-Section 4 (182 ac; 73 ha). See paragraph (k)(79)(ii) of this section for the map of this unit.

(87) Hawaii 15-*Schiedea diffusa* ssp. *macraei*-e-Section 5 (127 ac; 51 ha). See paragraph (k)(79)(ii) of this section for the map of this unit.

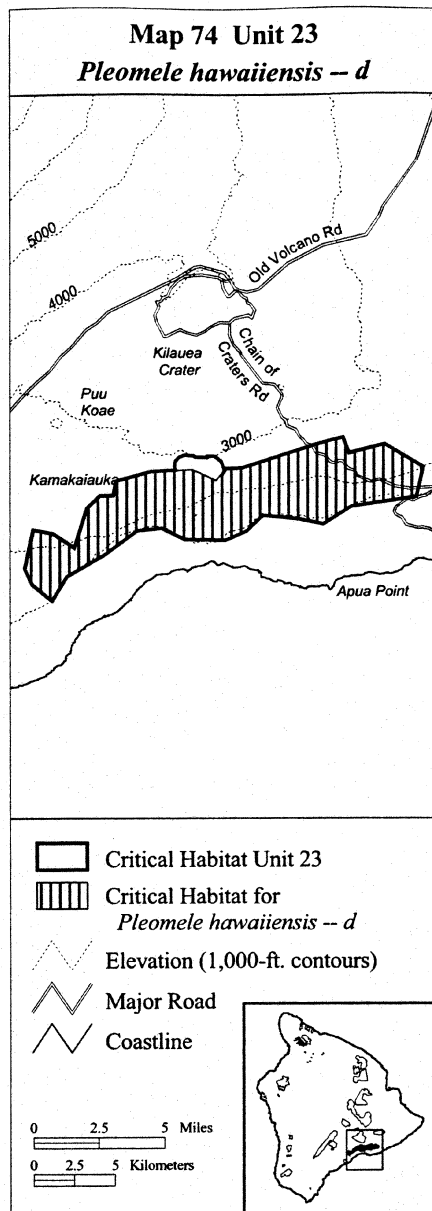
(88) Hawaii 15-*Stenogyne cranwelliae*-d-Section 4 (182 ac; 73 ha). See paragraph (k)(79)(ii) of this section for the map of this unit.

(89) Hawaii 15-*Stenogyne cranwelliae*-e-Section 5 (127 ac; 51 ha). See paragraph (k)(79)(ii) of this section for the map of this unit.

(90) Hawaii 23-*Dracaena konaensis*-d (8,943 ha, 22,097 ac)

(i) [Reserved]

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



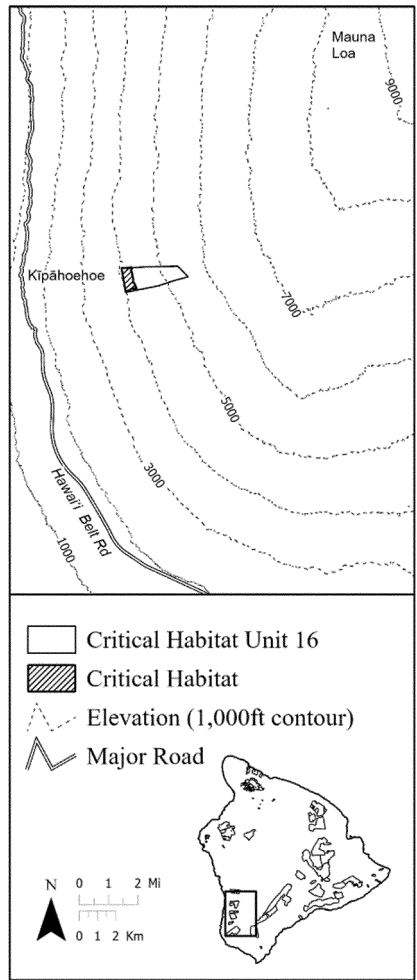
(91) Hawaii 16-*Cyanea marksii*-c (156 ac; 63 ha).

(i) This unit is also critical habitat for Hawaii 16-*Phyllostegia floribunda*-f, Hawaii 16-*Pittosporum hawaiiense*-f, Hawaii 16-*Schiedea diffusa* ssp. *macraei*-f, and Hawaii 16-*Stenogyne cranwelliae*-f (see paragraphs (k)(93), (k)(94), (k)(95), and (k)(96), respectively, of this section).

(ii) Map 60a follows:
Figure 63 to paragraph (k)

MAP 60A

Hawaii 16-*Cyanea marksii*-c, Hawaii 16-*Phyllostegia floribunda*-f, Hawaii 16-*Pittosporum hawaiiense*-f, Hawaii 16-*Schiedea diffusa* ssp. *macraei*-f, Hawaii 16-*Stenogyne cranwelliae*-f

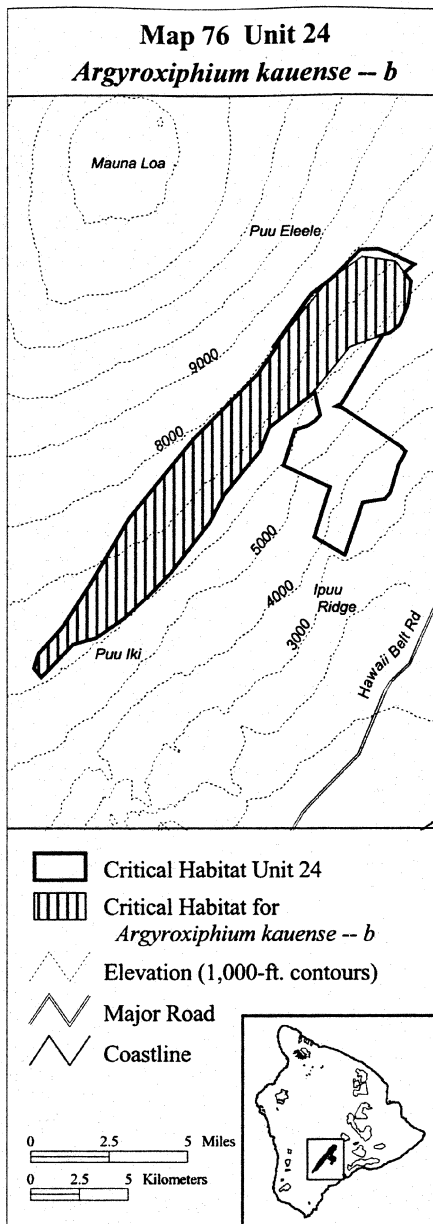


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(92) Hawaii 24—*Argyroxiphium kauense*—
b (7,795 ha, 19,261 ac)

- (i) [Reserved]
- (ii) Map 76 follows:



(93) Hawaii 16—*Phyllostegia floribunda*-
f (156 ac; 63 ha). See paragraph
(k)(91)(ii) of this section for the map of
this unit.

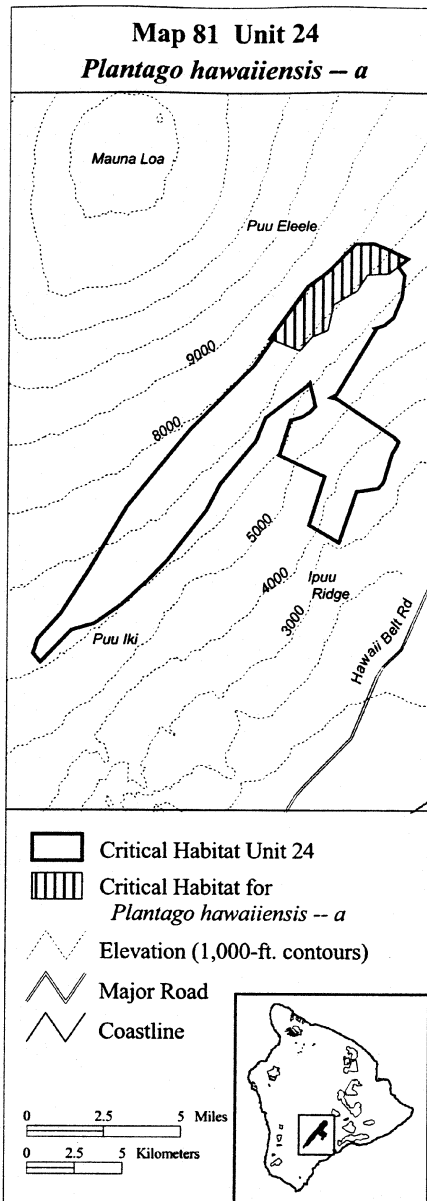
(94) Hawaii 16—*Pittosporum hawaiiense*-
f (156 ac; 63 ha). See paragraph
(k)(91)(ii) of this section for the map of
this unit.

(95) Hawaii 16—*Schiedea diffusa* ssp.
macraei-f (156 ac; 63 ha). See paragraph
(k)(91)(ii) of this section for the map of
this unit.

(96) Hawaii 16—*Stenogyne cranwelliae*-f
(156 ac; 63 ha). See paragraph (k)(91)(ii)
of this section for the map of this unit.

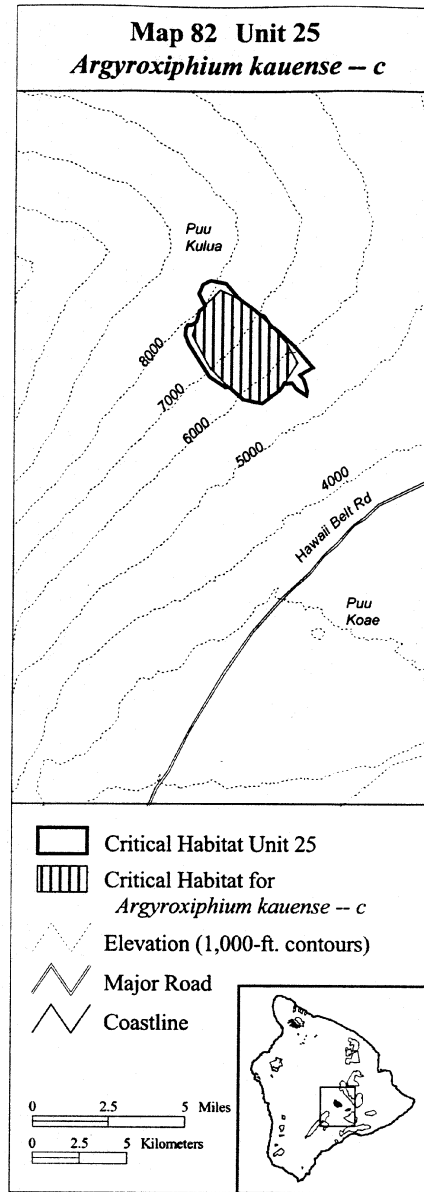
(97) Hawaii 24—*Plantago hawaiiensis*—a
(1,348 ha, 3,330 ac)

- (i) [Reserved]
- (ii) Map 81 follows:



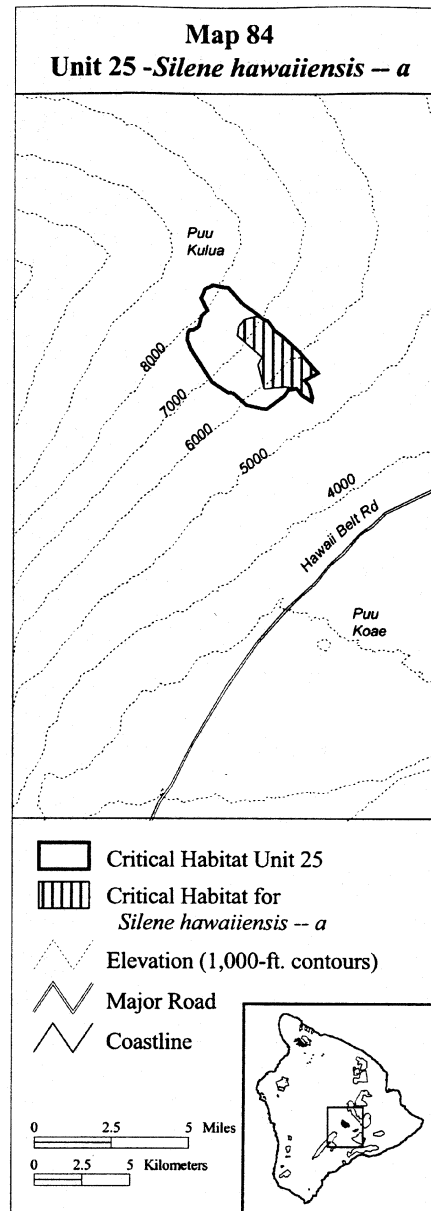
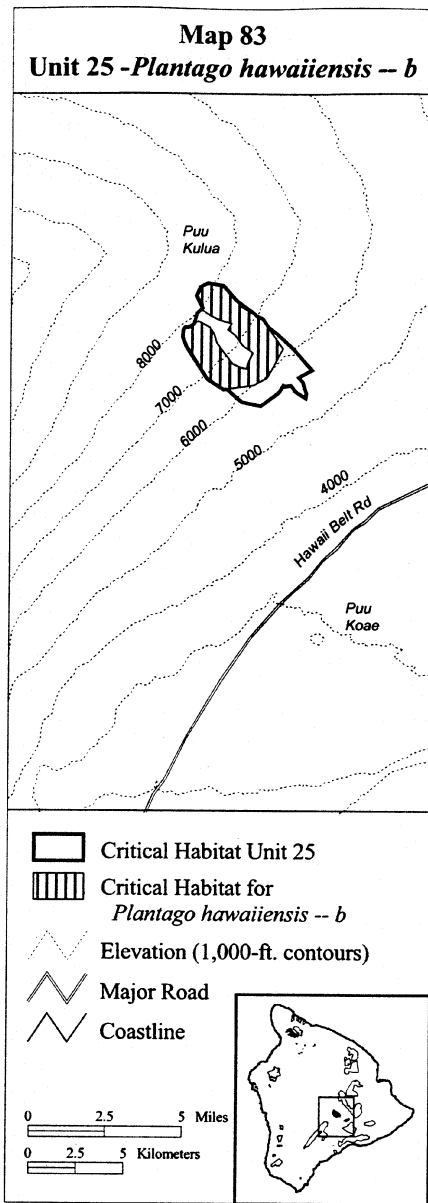
(98) Hawaii 25—*Argyroxiphium kauense*—c (2,006 ha, 4,957 ac)

- (i) [Reserved]
- (ii) Map 82 follows:



(99) Hawaii 25—*Plantago hawaiiensis*—b (1,522 ha, 3,762 ac)

- (i) [Reserved]
- (ii) Map 83 follows:

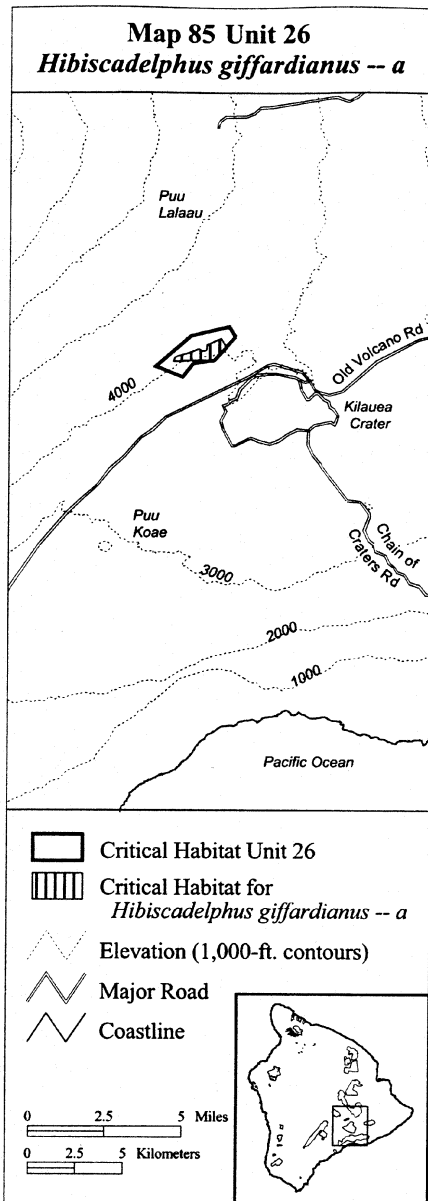


(100) Hawaii 25—*Silene hawaiiensis*—a
(854 ha, 2,110 ac)

- (i) [Reserved]
- (ii) Map 84 follows:

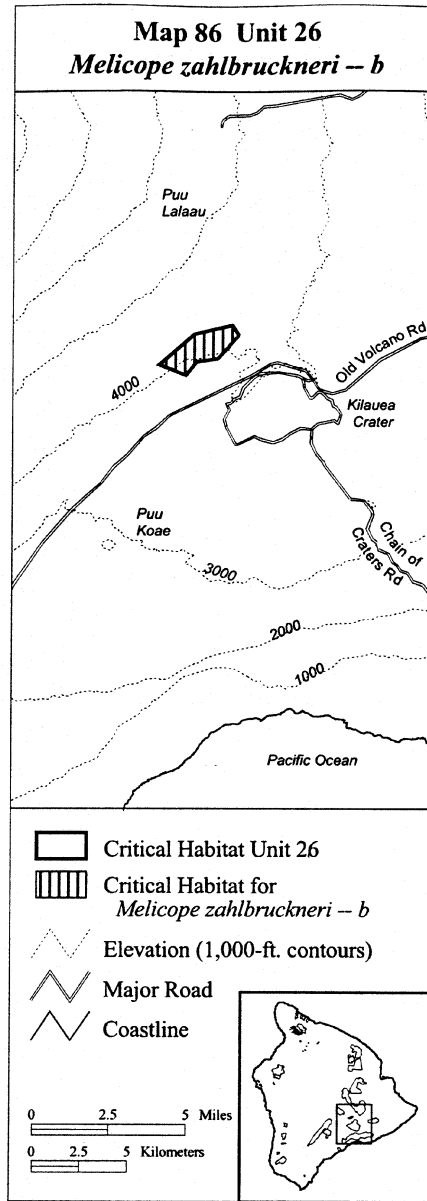
(101) Hawaii 26—*Hibiscadelphus giffardianus*—a (149 ha, 367 ac)

- (i) [Reserved]
- (ii) Map 85 follows:



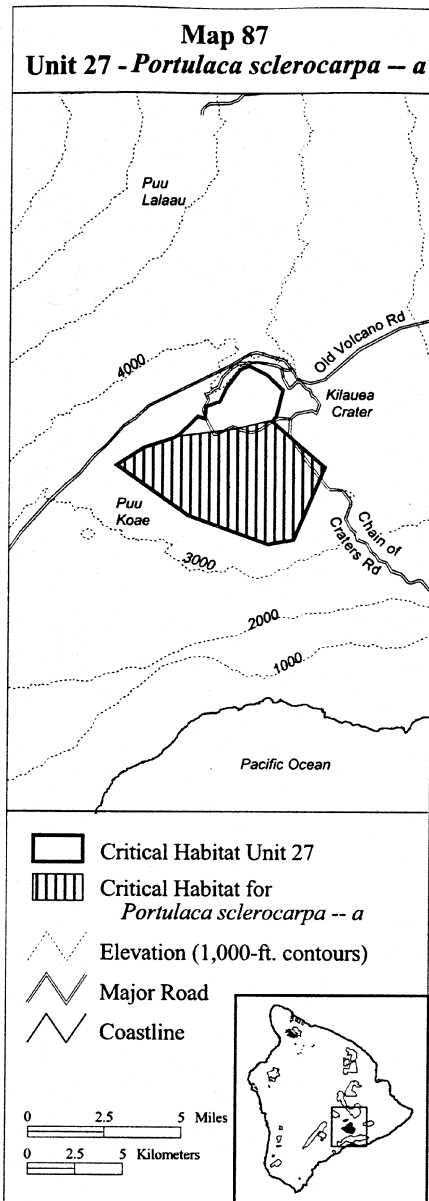
(102) Hawaii 26—*Melicope zahlbruckneri*—b (495 ha, 1,224 ac)

- (i) [Reserved]
- (ii) Map 86 follows:



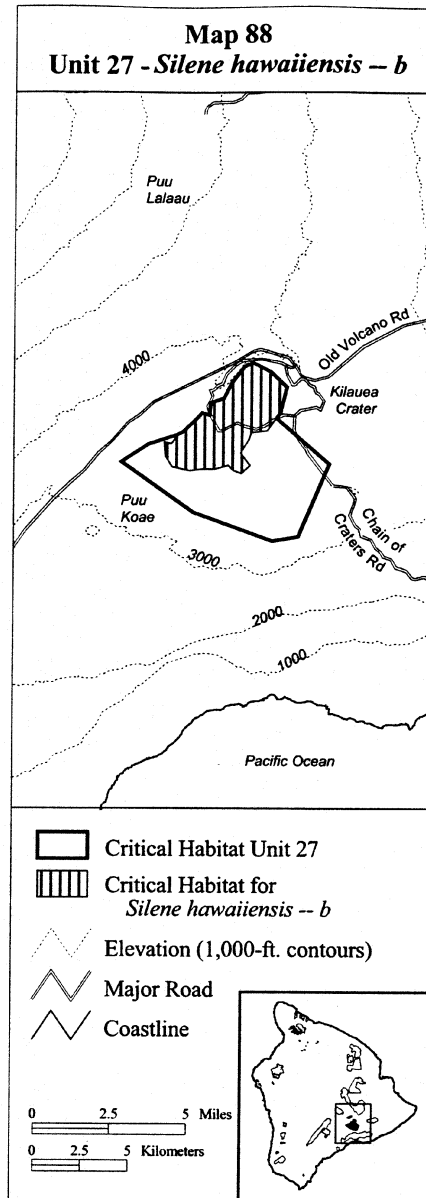
(103) Hawaii 27—*Portulaca sclerocarpa*—a (4,390 ha, 10,848 ac)

- (i) [Reserved]
- (ii) Map 87 follows:



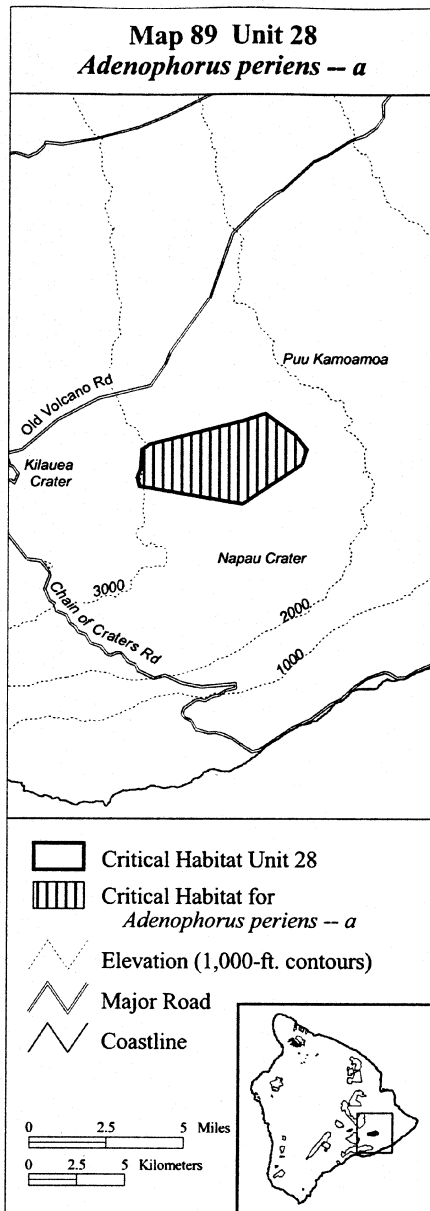
(104) Hawaii 27—*Silene hawaiiensis*—b
(1,942 ha, 4,798 ac)

- (i) [Reserved]
- (ii) Map 88 follows:



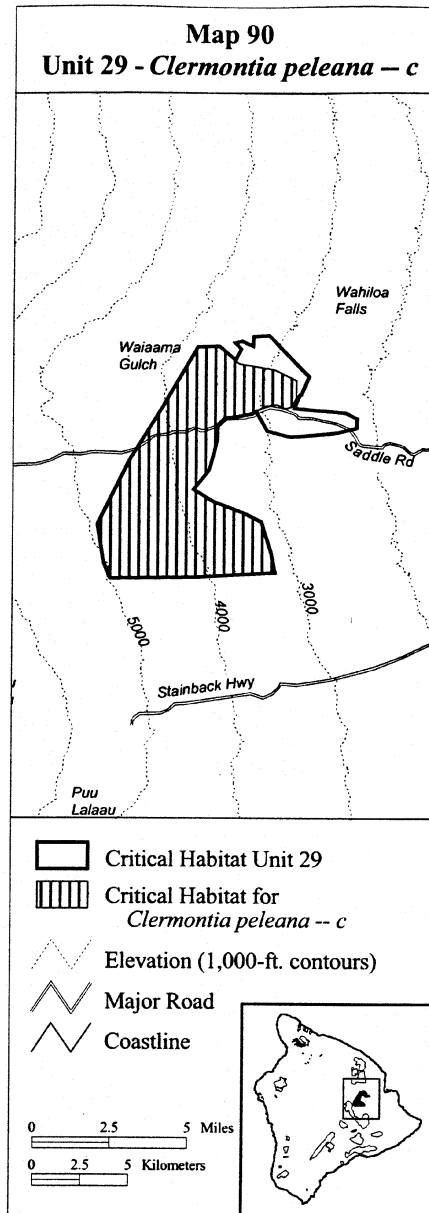
(105) Hawaii 28—*Adenophorus perians*—a
(2,733 ha, 6,754 ac)

- (i) [Reserved]
- (ii) Map 89 follows:



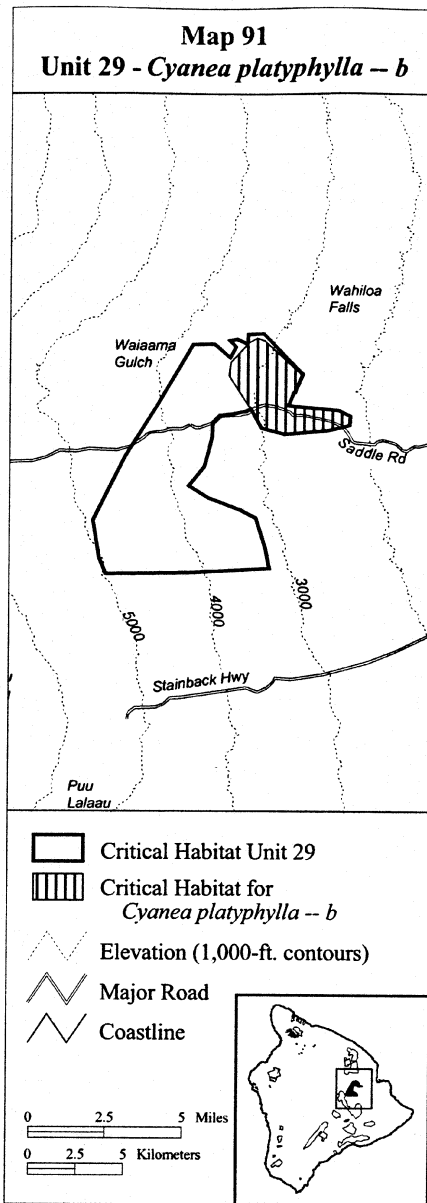
(106) Hawaii 29—*Clermontia peleana*—c
(6,845 ha, 16,914 ac)

- (i) [Reserved]
- (ii) Map 90 follows:



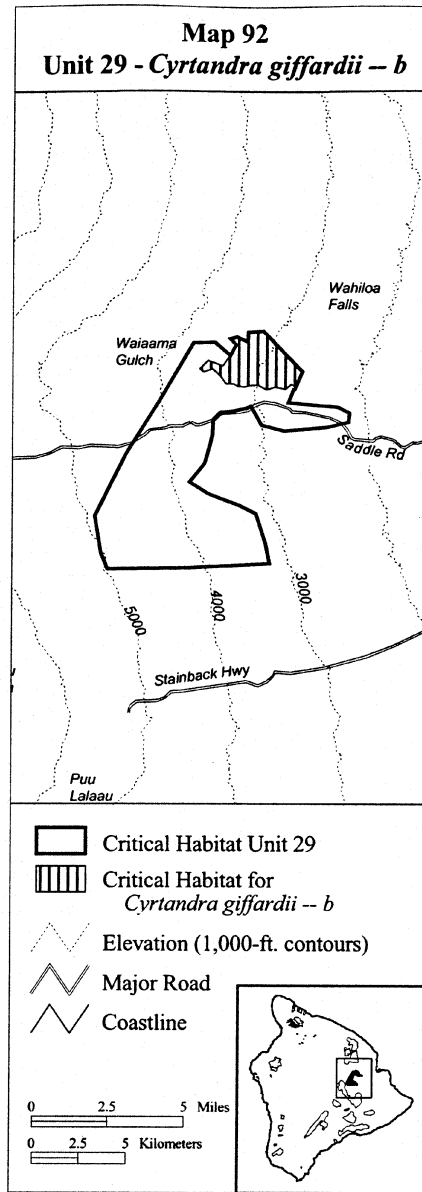
(107) Hawaii 29—*Cyanea platyphylla*—b
(1,524 ha, 3,767 ac)

- (i) [Reserved]
- (ii) Map 91 follows:



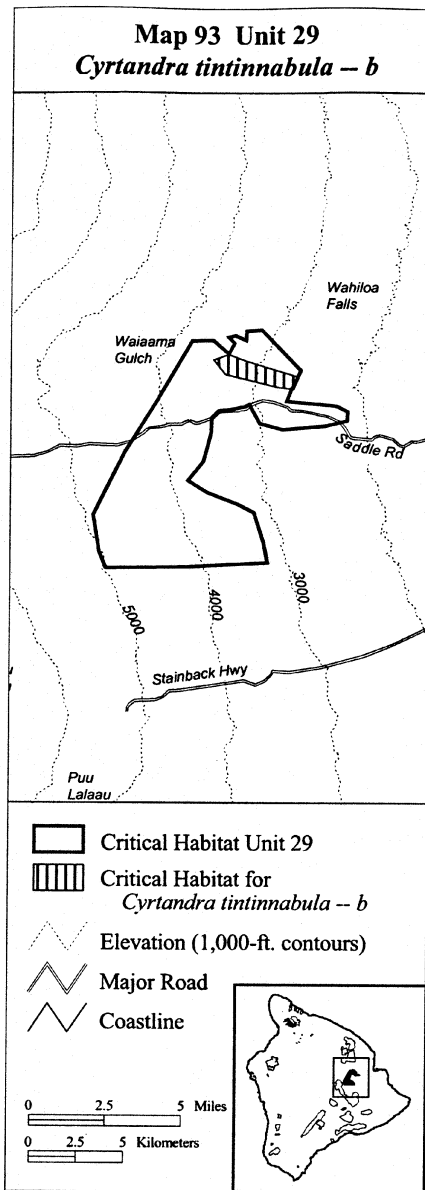
(108) Hawaii 29—*Cyrtandra giffardii*—b
(938 ha, 2,319 ac)

- (i) [Reserved]
- (ii) Map 92 follows:



(109) Hawaii 29—*Cyrtandra tintinnabula*—b (378 ha, 934 ac)

- (i) [Reserved]
- (ii) Map 93 follows:



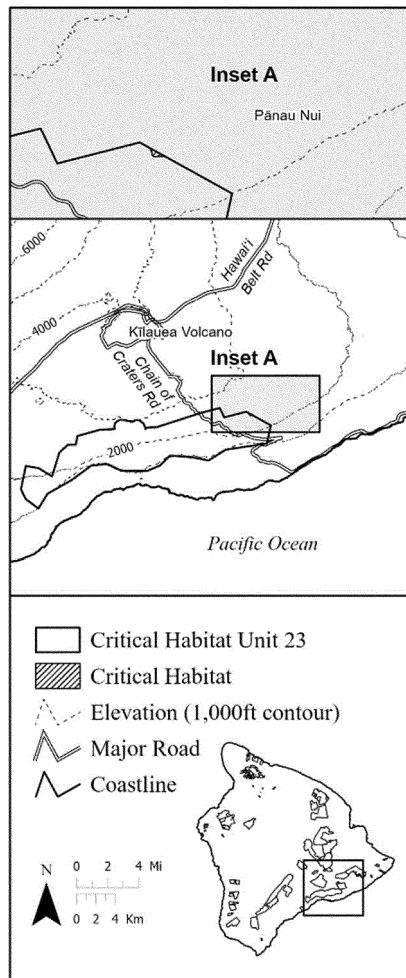
(110) Hawaii 23-*Phyllostegia floribunda*-g (9 ac; 4 ha).

(i) This unit is also critical habitat for Hawaii 23-*Pittosporum hawaiiense*-g (see paragraph (k)(111) of this section).

(ii) Map 74a follows:
Figure 78 to paragraph (k)

MAP 74A

Hawaii 23-*Phyllostegia floribunda*-g, Hawaii 23-*Pittosporum hawaiiense*-g



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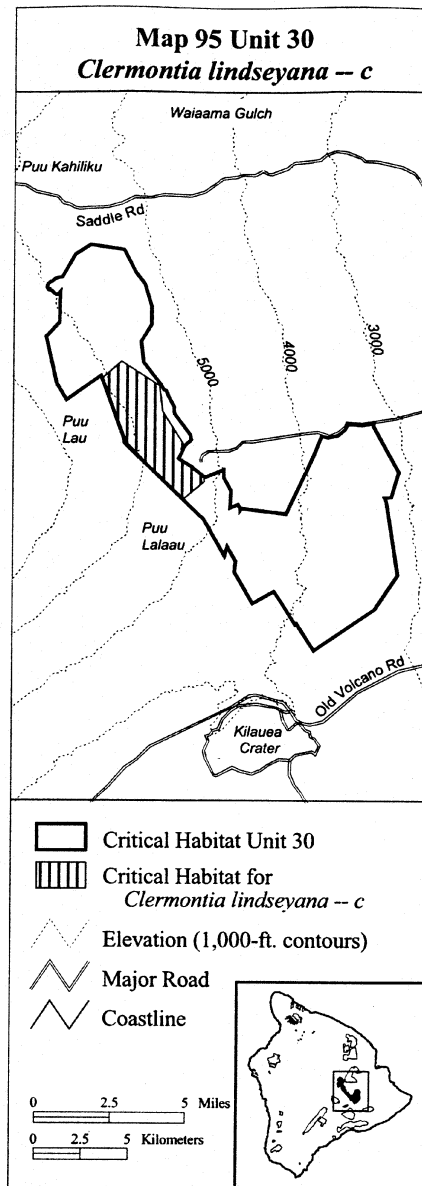
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(111) Hawaii 23—*Pittosporum hawaiiense*-g (9 ac; 4 ha). See paragraph (k)(110)(ii) of this section for the map of this unit.

(111a) Hawaii 30—*Clermontia lindseyana*-c (1,634 ha, 4,037 ac)

(i) [Reserved]

(ii) Map 95 follows:



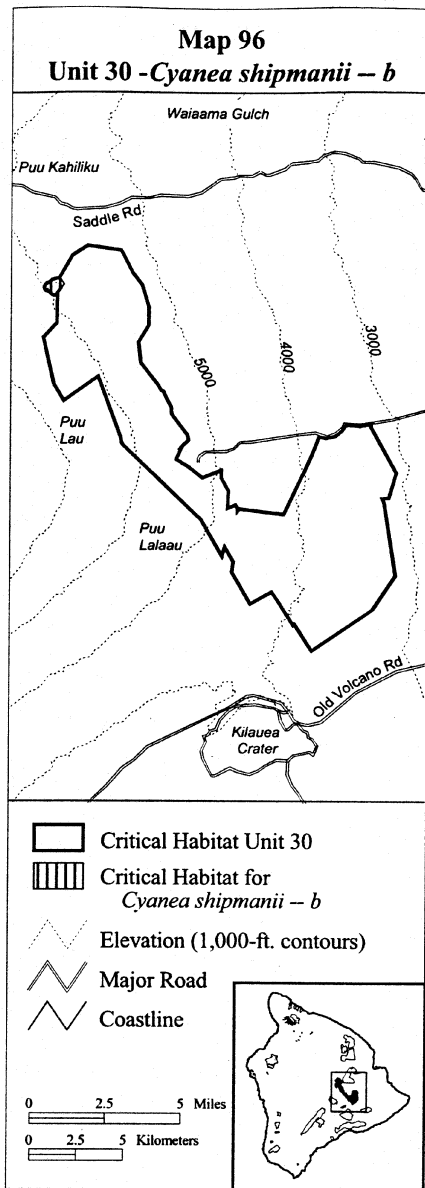
(112) Hawaii 30—*Cyanea shipmanii*-b (62 ha, 152 ac)

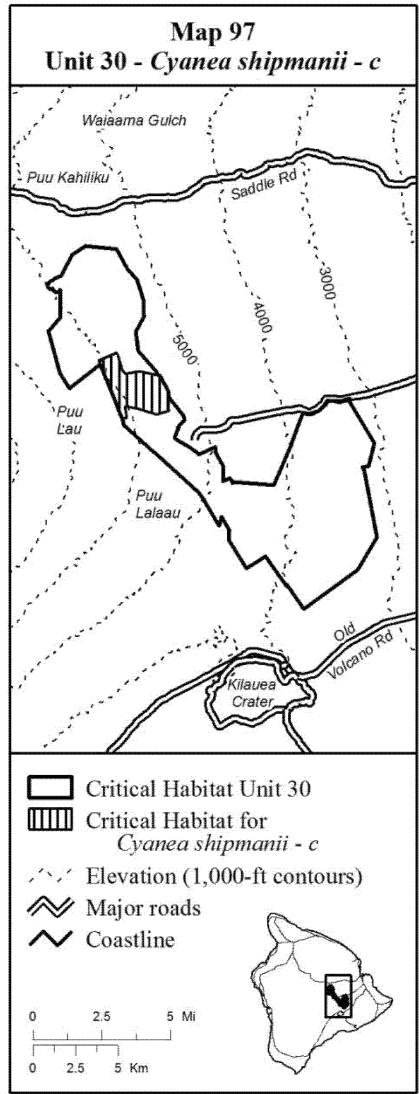
(i) [Reserved]

(ii) Map 96 follows:

(113) Hawaii 30—*Cyanea shipmanii*—c
(825 ha, 2,038 ac)

- (i) [Reserved]
- (ii) Note: Map 97 follows:



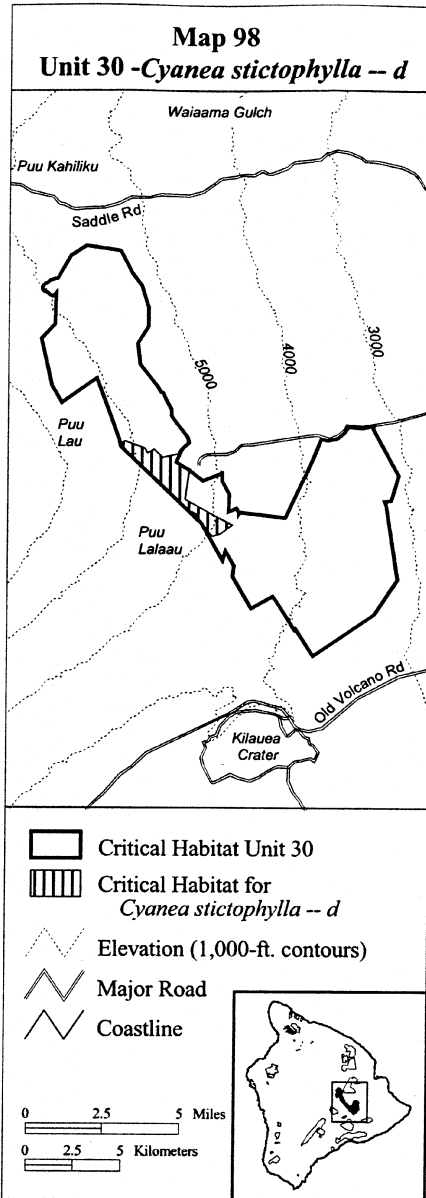


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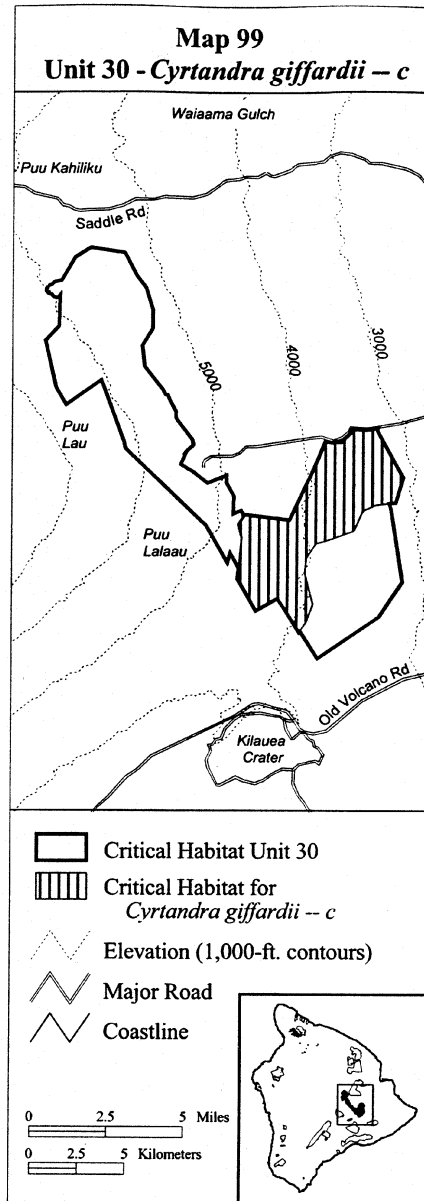
(114) Hawaii 30—*Cyanea stictophylla*—d
(623 ha, 1,539 ac)

- (i) [Reserved]
- (ii) Map 98 follows:



(115) Hawaii 30—*Cyrtandra giffardii*—c
(3,872 ha, 9,567 ac)

- (i) [Reserved]
- (ii) Map 99 follows:



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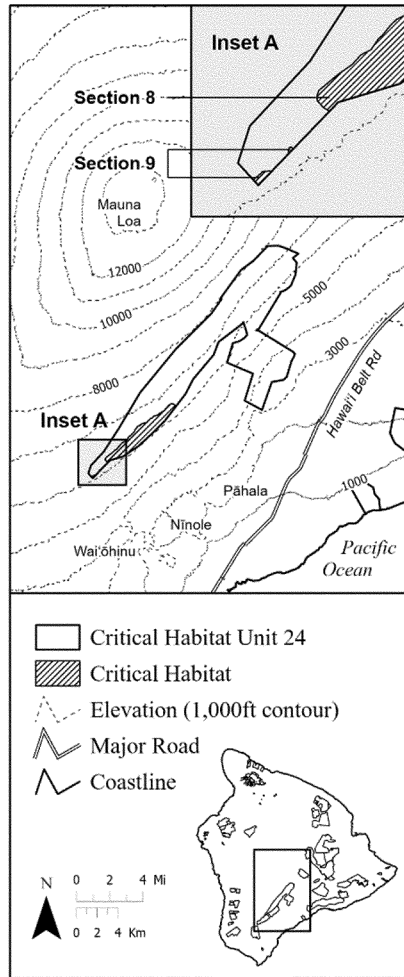
(116) Hawaii 24-*Cyanea tritomantha*-d-Section 8 (1,956 ac; 792 ha).

(i) This unit is also critical habitat for Hawaii 24-*Pittosporum hawaiiense*-h-Section 8, Hawaii 24-*Schiedea diffusa* ssp. *macraei*-g-Section 8, and Hawaii 24-*Stenogyne cranwelliae*-g-Section 8 (see paragraphs (k)(119), (k)(122), and (k)(124), respectively, of this section).

(ii) Map 78a follows:
Figure 83 to paragraph (k)

MAP 78A

Hawaii 24-*Cyanea tritomantha*-d-Section 8, Hawaii 24-*Pittosporum hawaiiense*-h-Section 8, Hawaii 24-*Pittosporum hawaiiense*-i-Section 9, Hawaii 24-*Schiedea diffusa* ssp. *macraei*-g-Section 8, Hawaii 24-*Schiedea diffusa* ssp. *macraei*-h-Section 9, Hawaii 24-*Stenogyne cranwelliae*-g-Section 8, Hawaii 24-*Stenogyne cranwelliae*-h-Section 9



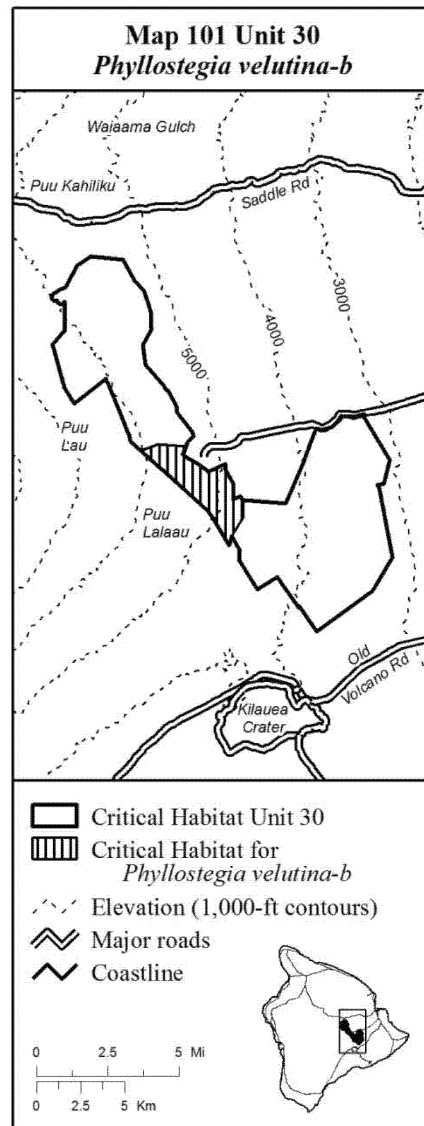
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(117) Hawaii 30—*Phyllostegia velutina*—b
(1,180 ha, 2,916 ac).

(ii) Note: Map 101 follows:

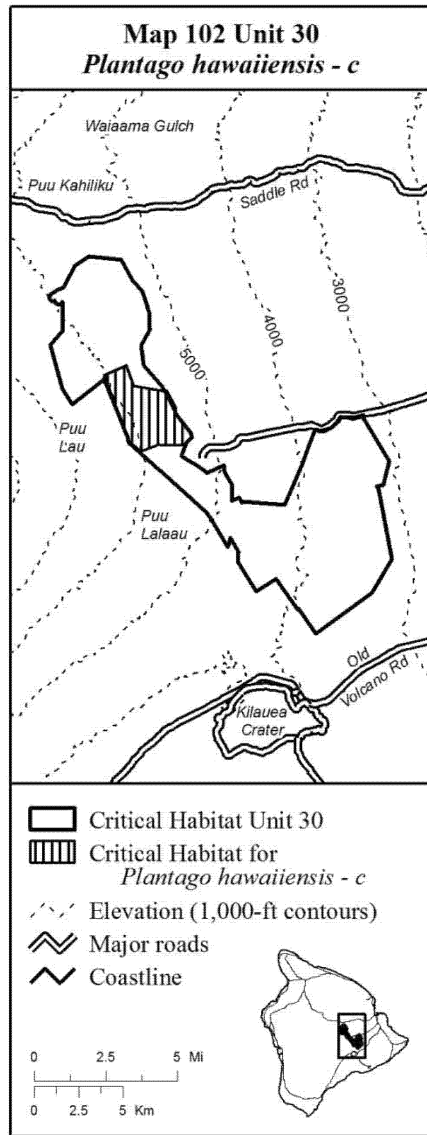
(i) [Reserved]



(118) Hawaii 30—*Plantago hawaiiensis*—c
(1,219 ha, 3,012 ac).

(ii) Note: Map 102 follows:

(i) [Reserved]



(119) Hawaii 24—*Pittosporum hawaiiense*-h-Section 8 (1,956 ac; 792 ha). See paragraph (k)(116)(ii) of this section for the map of this unit.

(120) Hawaii 24—*Pittosporum hawaiiense*-i-Section 9 (101 ac; 41 ha).

(i) This unit is also critical habitat for Hawaii 24—*Schiedea diffusa* ssp. *macraei*-h-Section 9 and Hawaii 24—

Stenogyne cranwelliae-h-Section 9 (see paragraphs (k)(123) and (k)(125), respectively, of this section).

(ii) See paragraph (k)(116)(ii) of this section for the map of this unit.

(121) Hawaii 31—*Isodendron pyriformium*—b (2,860 ha; 7,066 ac). See paragraph (k)(104)(ii) of this section for the map of this unit.

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(122) Hawaii 24—*Schiedea diffusa* ssp. *macraei*-g-Section 8 (1,956 ac; 792 ha). See paragraph (k)(116)(ii) of this section for the map of this unit.

(123) Hawaii 24—*Schiedea diffusa* ssp. *macraei*-h-Section 9 (101 ac; 41 ha). See paragraph (k)(116)(ii) of this section for the map of this unit.

(124) Hawaii 24—*Stenogyne cranwelliae*-g-Section 8 (1,956 ac; 792 ha). See paragraph (k)(116)(ii) of this section for the map of this unit.

(125) Hawaii 24—*Stenogyne cranwelliae*-h-Section 9 (101 ac; 41 ha). See paragraph (k)(116)(ii) of this section for the map of this unit.

(126) Hawaii 34—*Bidens micrantha* ssp. *ctenophylla*-e (371 ha; 917 ac).

(i) This unit is also critical habitat for Hawaii 34—*Isodendron pyriform*-e and Hawaii 34—*Mezoneuron kawaiense*-e (see paragraphs (k)(111) and (112), respectively, of this section).

(ii) See paragraph (k)(107)(ii) of this section for the map of this unit.

(127) Hawaii 34—*Isodendron pyriform*-e (371 ha; 917 ac). See paragraph (k)(107)(ii) of this section for the map of this unit.

(128) Hawaii 34—*Mezoneuron kawaiense*-e (371 ha; 917 ac). See paragraph (k)(107)(ii) of this section for the map of this unit.

(129) Hawaii 36—*Bidens micrantha* ssp. *ctenophylla*-g (163 ha; 402 ac).

(i) This unit is also critical habitat for Hawaii 36—*Isodendron pyriform*-g (see paragraph (k)(114) of this section).

(ii) See paragraph (k)(107)(ii) of this section for the map of this unit.

(130) Hawaii 36—*Isodendron pyriform*-g (163 ha; 402 ac). See paragraph (k)(107)(ii) of this section for the map of this unit.

(131) - (133) [Reserved]

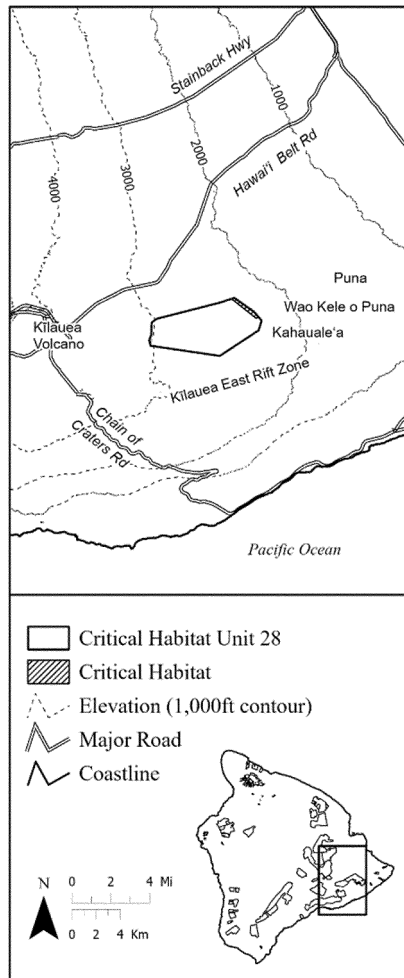
(134) Hawaii 28—*Cyrtandra nanawaleensis*-a (155 ac; 63 ha).

(i) This unit is also critical habitat for Hawaii 28—*Phyllostegia floribunda*-h (see paragraph (k)(135) of this section).

(ii) Map 89a follows:
Figure 95 to paragraph (k)

MAP 89A

Hawaii 28—*Cyrtandra nanawaleensis*-a,
Hawaii 28—*Phyllostegia floribunda*-h



(135) Hawaii 28–*Phyllostegia floribunda*-h (155 ac; 63 ha). See paragraph (k)(134)(ii) of this section for the map of this unit.

(136)-(137) [Reserved]

(138) Hawaii 29–*Cyanea tritomantha*-e (494 ac; 200 ha).

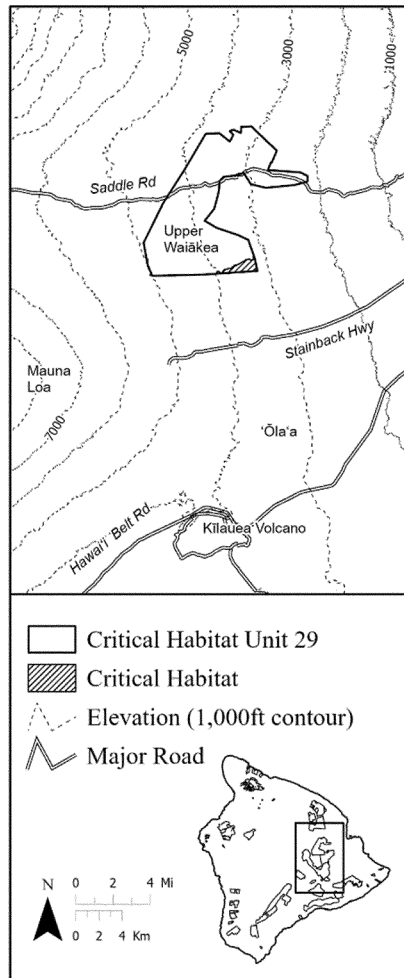
(i) This unit is also critical habitat for Hawaii 29–*Phyllostegia floribunda*-i, Hawaii 29–*Pittosporum hawaiiense*-j, Hawaii 29–*Schiedea diffusa* ssp. *macraei*-i, and Hawaii 29–*Stenogyne cranwelliae*-i

(see paragraphs (k)(141), (k)(142), (k)(143), and (k)(144), respectively, of this section).

(ii) Map 91a follows:
Figure 98 to paragraph (k)

MAP 91A

Hawaii 29–*Cyanea tritomantha*-e, Hawaii 29–*Phyllostegia floribunda*-i, Hawaii 29–*Pittosporum hawaiiense*-j, Hawaii 29–*Schiedea diffusa* ssp. *macraei*-i, Hawaii 29–*Stenogyne cranwelliae*-I



- (139)-(140) [Reserved]
- (141) Hawaii 29-*Phyllostegia floribunda*-i (494 ac; 200 ha). See paragraph (k)(138)(ii) of this section for the map of this unit.
- (142) Hawaii 29-*Pittosporum hawaiiense*-j (494 ac; 200 ha). See paragraph (k)(138)(ii) of this section for the map of this unit.
- (143) Hawaii 29-*Schiedea diffusa* ssp. *macraei*-i (494 ac; 200 ha). See paragraph (k)(138)(ii) of this section for the map of this unit.
- (144) Hawaii 29-*Stenogyne cranwelliae*-i (494 ac; 200 ha). See paragraph

- (k)(138)(ii) of this section for the map of this unit.
- (144)-(149) [Reserved]
- (150) Hawaii 30-*Cyanea tritomantha*-f (13,730 ac; 5,556 ha).
 - (i) This unit is also critical habitat for Hawaii 30-*Phyllostegia floribunda*-j, Hawaii 30-*Pittosporum hawaiiense*-k, Hawaii 30-*Schiedea diffusa* ssp. *macraei*-j, and Hawaii 30-*Stenogyne cranwelliae*-j (see paragraphs (k)(152), (k)(155), (k)(157), and (k)(159), respectively, of this section).
 - (ii) Map 98a follows:
Figure 106 to paragraph (k)

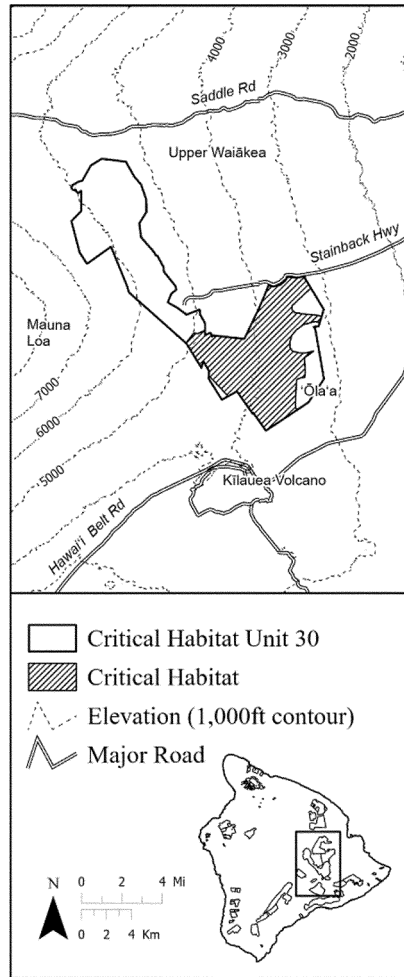
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MAP 98A

Hawaii 30-*Cyanea tritomantha*-f, Hawaii
 30-*Phyllostegia floribunda*-j, Hawaii

30-*Pittosporum hawaiiense*-k, Hawaii
 30-*Schiedea diffusa* ssp. *macraei*-j, Ha-
 waii 30-*Stenogyne cranwelliae*-j



(151)-(154) [Reserved]
 (155) Hawaii 30-*Pittosporum hawaiiense*-k (13,730 ac; 5,556 ha). See paragraph (k)(150)(ii) of this section for the map of this unit.
 (156) [Reserved]
 (157) Hawaii 30-*Schiedea diffusa* ssp. *macraei*-j (13,730 ac; 5,556 ha). See paragraph (k)(150)(ii) of this section for the map of this unit.

(158) [Reserved]
 (159) Hawaii 30-*Stenogyne cranwelliae*-j (13,730 ac; 5,556 ha). See paragraph (k)(150)(ii) of this section for the map of this unit.
 (160) - (170) [Reserved]
 (171) Hawaii 37-*Cyanea marksii*-d (1,906 ac; 771 ha)
 (i) This unit is also critical habitat for Hawaii 37-*Phyllostegia floribunda*-k,

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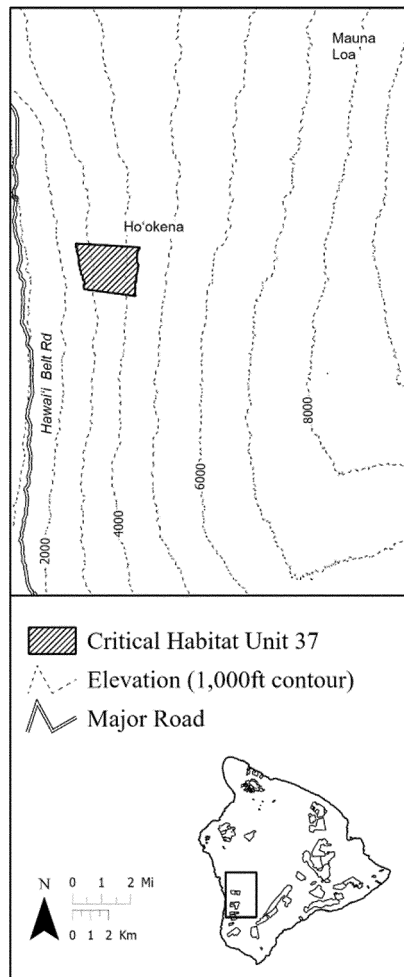
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Hawaii 37-*Pittosporum hawaiiense*-l, Hawaii 37-*Schiedea diffusa* ssp. *macraei*-k, and Hawaii 37-*Stenogyne cranwelliae*-k (see paragraphs (k)(172), (k)(173), (k)(174), and (k)(175), respectively, of this section).

(ii) Map 106 follows:
Figure 114 to paragraph (k)

MAP 106

Hawaii 37-*Cyanea marksii*-d, Hawaii 37-*Phyllostegia floribunda*-k, Hawaii 37-*Pittosporum hawaiiense*-l, Hawaii 37-*Schiedea diffusa* ssp. *macraei*-k, Hawaii 37-*Stenogyne cranwelliae*-k



(172) Hawaii 37-*Phyllostegia floribunda*-k (1,906 ac; 771 ha). See paragraph (k)(171)(ii) of this section for the map of this unit.

(173) Hawaii 37-*Pittosporum hawaiiense*-l (1,906 ac; 771 ha). See paragraph (k)(171)(ii) of this section for the map of this unit.

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(174) Hawaii 37-*Schiedea diffusa* ssp. *macraei*-k (1,906 ac; 771 ha). See paragraph (k)(171)(ii) of this section for the map of this unit.

(175) Hawaii 37-*Stenogyne cranwelliae*-k (1,906 ac; 771 ha). See paragraph (k)(171)(ii) of this section for the map of this unit.

(176) Hawaii 38-*Cyanea marksii*-e (534 ac; 216 ha).

(i) This unit is also critical habitat for Hawaii 38-*Phyllostegia floribunda*-l, Hawaii 38-*Pittosporum hawaiiense*-m, Hawaii 38-*Schiedea diffusa* ssp. *macraei*-

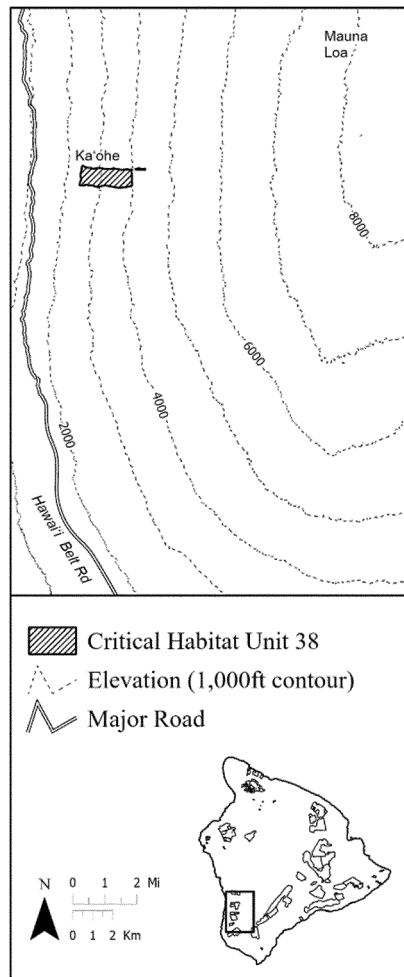
l, and Hawaii 38-*Stenogyne cranwelliae*-l (see paragraphs (k)(177), (k)(178), (k)(179), and (k)(180), respectively, of this section).

(ii) Map 107 follows:

Figure 115 to paragraph (k)

MAP 107

Hawaii 38-*Cyanea marksii*-e, Hawaii 38-*Phyllostegia floribunda*-l, Hawaii 38-*Pittosporum hawaiiense*-m, Hawaii 38-*Schiedea diffusa* ssp. *macraei*-l, Hawaii 38-*Stenogyne cranwelliae*-l



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(177) Hawaii 38-*Phyllostegia floribunda*-l (534 ac; 216 ha). See paragraph (k)(176)(ii) of this section for the map of this unit.

(178) Hawaii 38-*Pittosporum hawaiiense*-m (534 ac; 216 ha). See paragraph (k)(176)(ii) of this section for the map of this unit.

(179) Hawaii 38-*Schiedea diffusa* ssp. *macraei*-l (534 ac; 216 ha). See paragraph (k)(176)(ii) of this section for the map of this unit.

(180) Hawaii 38-*Stenogyne cranwelliae*-l (534 ac; 216 ha). See paragraph (k)(176)(ii) of this section for the map of this unit.

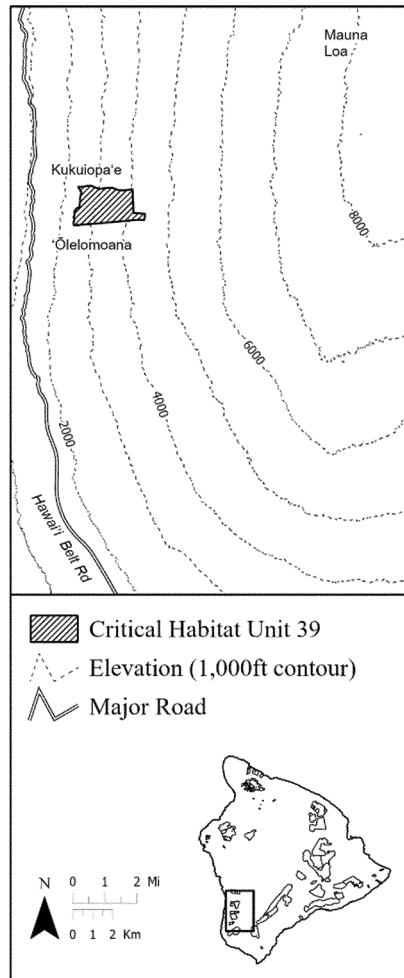
(181) Hawaii 39-*Cyanea marksii*-f (1,164 ac; 471 ha)

(i) This unit is also critical habitat for Hawaii 39-*Phyllostegia floribunda*-m, Hawaii 39-*Pittosporum hawaiiense*-n, Hawaii 39-*Schiedea diffusa* ssp. *macraei*-m, and Hawaii 39-*Stenogyne cranwelliae*-m (see paragraphs (k)(182), (k)(183), (k)(184), and (k)(185), respectively, of this section).

(ii) Map 108 follows:
Figure 116 to paragraph (k)

MAP 108

Hawaii 39-*Cyanea marksii*-f, Hawaii 39-*Phyllostegia floribunda*-m, Hawaii 39-*Pittosporum hawaiiense*-n, Hawaii 39-*Schiedea diffusa* ssp. *macraei*-m, Hawaii 39-*Stenogyne cranwelliae*-m



(182) Hawaii 39–*Phyllostegia floribunda*-m (1,164 ac; 471 ha). See paragraph (k)(181)(ii) of this section for the map of this unit.

(183) Hawaii 39–*Pittosporum hawaiiense*-n (1,164 ac; 471 ha). See paragraph (k)(181)(ii) of this section for the map of this unit.

(184) Hawaii 39–*Schiedea diffusa* ssp. *macraei*-m (1,164 ac; 471 ha). See paragraph (k)(181)(ii) of this section for the map of this unit.

(185) Hawaii 39–*Stenogyne cranwelliae*-m (1,164 ac; 471 ha). See paragraph

(k)(181)(ii) of this section for the map of this unit.

(186) Hawaii 40–*Cyanea marksii*-g (1,243 ac; 503 ha)

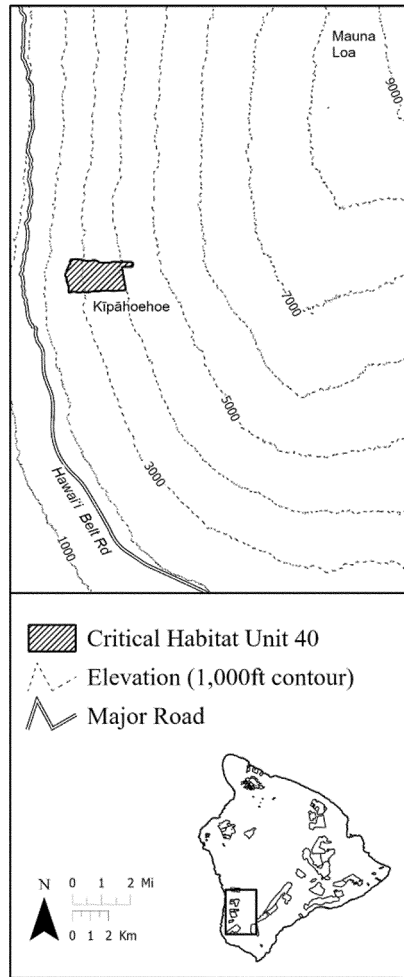
(i) This unit is also critical habitat for Hawaii 40–*Phyllostegia floribunda*-n, Hawaii 40–*Pittosporum hawaiiense*-o, Hawaii 40–*Schiedea diffusa* ssp. *macraei*-n, and Hawaii 40–*Stenogyne cranwelliae*-n (see paragraphs (k)(187), (k)(188), (k)(189), and (k)(190), respectively, of this section).

(ii) Map 109 follows:
Figure 117 to paragraph (k)

MAP 109

Hawaii 40-*Cyanea marksii*-g, Hawaii 40-*Phyllostegia floribunda*-n, Hawaii 40-

Pittosporum hawaiiense-o, Hawaii 40-*Schiedea diffusa* ssp. *macraei*-n, Hawaii 40-*Stenogyne cranwelliae*-n



(187) Hawaii 40-*Phyllostegia floribunda*-n (1,243 ac; 503 ha). See paragraph (k)(186)(ii) of this section for the map of this unit.

(188) Hawaii 40-*Pittosporum hawaiiense*-o (1,243 ac; 503 ha). See paragraph (k)(186)(ii) of this section for the map of this unit.

(189) Hawaii 40-*Schiedea diffusa* ssp. *macraei*-n (1,243 ac; 503 ha). See para-

graph (k)(186)(ii) of this section for the map of this unit.

(190) Hawaii 40-*Stenogyne cranwelliae*-n (1,243 ac; 503 ha). See paragraph (k)(186)(ii) of this section for the map of this unit.

(191) Hawaii 41-*Cyanea marksii*-h (3,412 ac; 1,381 ha)

(i) This unit is also critical habitat for Hawaii 41-*Phyllostegia floribunda*-o,

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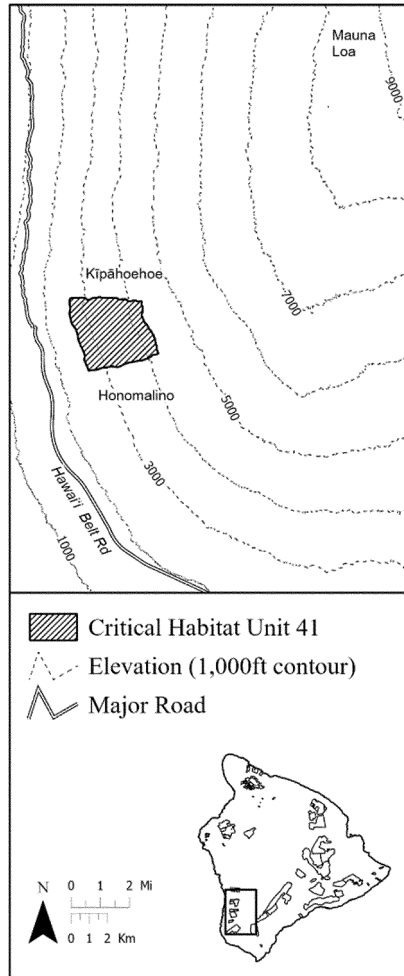
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Hawaii 41-*Pittosporum hawaiiense*-p, Hawaii 41-*Schiedea diffusa* ssp. *macraei*-o, and Hawaii 41-*Stenogyne cranwelliae*-o (see paragraphs (k)(192), (k)(193), (k)(194), and (k)(195), respectively, of this section).

(ii) Map 110 follows:
Figure 118 to paragraph (k)

MAP 110

Hawaii 41-*Cyanea marksii*-h, Hawaii 41-*Phyllostegia floribunda*-o, Hawaii 41-*Pittosporum hawaiiense*-p, Hawaii 41-*Schiedea diffusa* ssp. *macraei*-o, Hawaii 41-*Stenogyne cranwelliae*-o



(192) Hawaii 41-*Phyllostegia floribunda*-o (3,412 ac; 1,381 ha). See paragraph (k)(191)(ii) of this section for the map of this unit.

(193) Hawaii 41-*Pittosporum hawaiiense*-p (3,412 ac; 1,381 ha). See paragraph (k)(191)(ii) of this section for the map of this unit.

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(194) Hawaii 41-*Schiedea diffusa* ssp. *macraei*-o (3,412 ac; 1,381 ha). See paragraph (k)(191)(ii) of this section for the map of this unit.

(195) Hawaii 41-*Stenogyne cranwelliae*-o (3,412 ac; 1,381 ha). See paragraph (k)(191)(ii) of this section for the map of this unit.

(196) Hawaii 42-*Cyanea tritomantha*-g (8,781 ac; 3,554 ha).

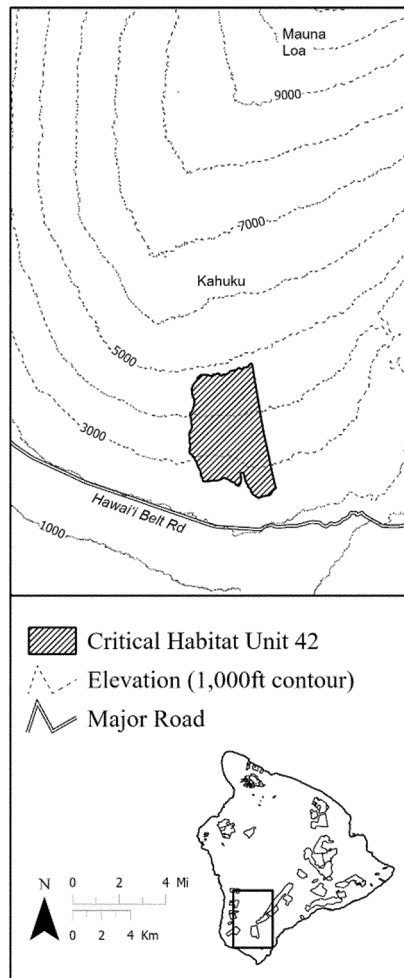
(i) This unit is also critical habitat for Hawaii 42-*Phyllostegia floribunda*-p, Hawaii 42-*Pittosporum hawaiiense*-q, Hawaii 42-*Schiedea diffusa* ssp. *macraei*-p,

and Hawaii 42-*Stenogyne cranwelliae*-p (see paragraphs (k)(197), (k)(198), (k)(199), and (k)(200), respectively, of this section).

(ii) Map 111 follows:

Figure 119 to paragraph (k)

MAP 111 HAWAII 42-CYANEA TRITOMANTHA-G, HAWAII 42-PHYLLOSTEGIA FLORIBUNDA-P, HAWAII 42-PITTOSPORUM HAWAIIENSE-Q, HAWAII 42-SCHIEDEA DIFFUSA SSP. MACRAEI-P, HAWAII 42-STENOGYNE CRANWELLIAE-P



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(197) Hawaii 42-*Phyllostegia florbunda*-p (8,781 ac; 3,554 ha). See paragraph (k)(196)(ii) of this section for the map of this unit.

(198) Hawaii 42-*Pittosporum hawaiiense*-q (8,781 ac; 3,554 ha). See paragraph (k)(196)(ii) of this section for the map of this unit.

(199) Hawaii 42-*Schiedea diffusa* ssp. *macraei*-p (8,781 ac; 3,554 ha). See paragraph (k)(196)(ii) of this section for the map of this unit.

(200) Hawaii 42-*Stenogyne cranwelliae*-p (8,781 ac; 3,554 ha). See paragraph (k)(196)(ii) of this section for the map of this unit.

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(201) Hawaii 43-*Pittosporum hawaiiense*-r (5,872 ac; 2,376 ha).

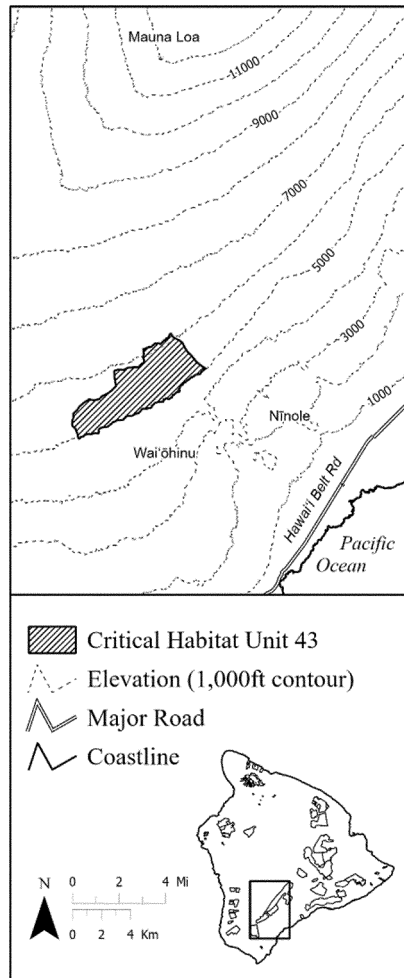
(i) This unit is also critical habitat for Hawaii 43-*Schiedea diffusa* ssp. *macraei*-q and Hawaii 43-*Stenogyne cranwelliae*-q (see paragraphs (k)(202) and (k)(203), respectively, of this section).

(ii) Map 112 follows:

Figure 120 to paragraph (k)

MAP 112

Hawaii 43-*Pittosporum hawaiiense*-r, Hawaii 43-*Schiedea diffusa* ssp. *macraei*-q, Hawaii 43-*Stenogyne cranwelliae*-q



(202) Hawaii 43—*Schiedea diffusa* ssp. *macraei*-q (5,872 ac; 2,376 ha). See paragraph (k)(201)(ii) of this section for the map of this unit.

(203) Hawaii 43—*Stenogyne cranwelliae*-q (5,872 ac; 2,376 ha). See paragraph (k)(201)(ii) of this section for the map of this unit.

(204) Hawaii 44—*Cyanea tritomantha*-h (5,884 ac; 2,381 ha).

(i) This unit is also critical habitat for Hawaii 44—*Pittosporum hawaiiense*-s,

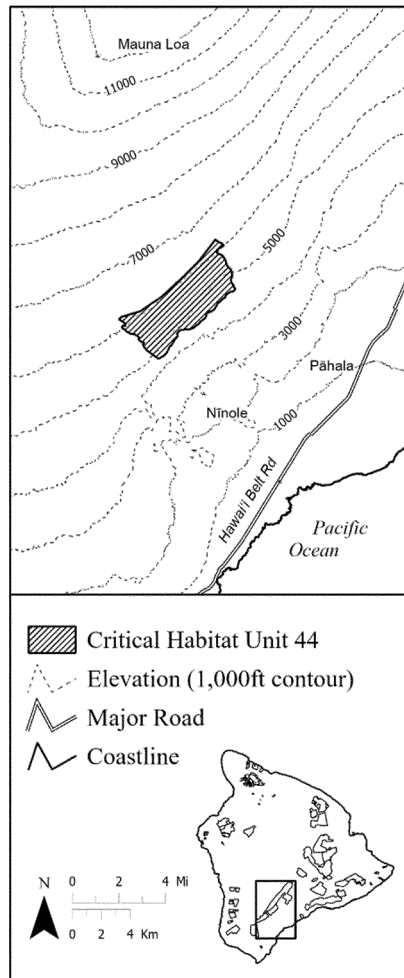
Hawaii 44—*Schiedea diffusa* ssp. *macraei*-r, and Hawaii 44—*Stenogyne cranwelliae*-r (see paragraphs (k)(205), (k)(206), and (k)(207), respectively, of this section).

(ii) Map 113 follows:

Figure 121 to paragraph (k)

MAP 113

Hawaii 44—*Cyanea tritomantha*-h, Hawaii 44—*Pittosporum hawaiiense*-s, Hawaii 44—*Schiedea diffusa* ssp. *macraei*-r, Hawaii 44—*Stenogyne cranwelliae*-r



(205) Hawaii 44-*Pittosporum hawaiiense*-s (5,884 ac; 2,381 ha). See paragraph (k)(204)(ii) of this section for the map of this unit.

(206) Hawaii 44-*Schiedea diffusa* ssp. *macraei*-r (5,884 ac; 2,381 ha). See paragraph (k)(204)(ii) of this section for the map of this unit.

(207) Hawaii 44-*Stenogyne cranwelliae*-r (5,884 ac; 2,381 ha). See paragraph (k)(204)(ii) of this section for the map of this unit.

(208) Hawaii 45-*Phyllostegia floribunda*-q (5,494 ac; 2,223 ha).

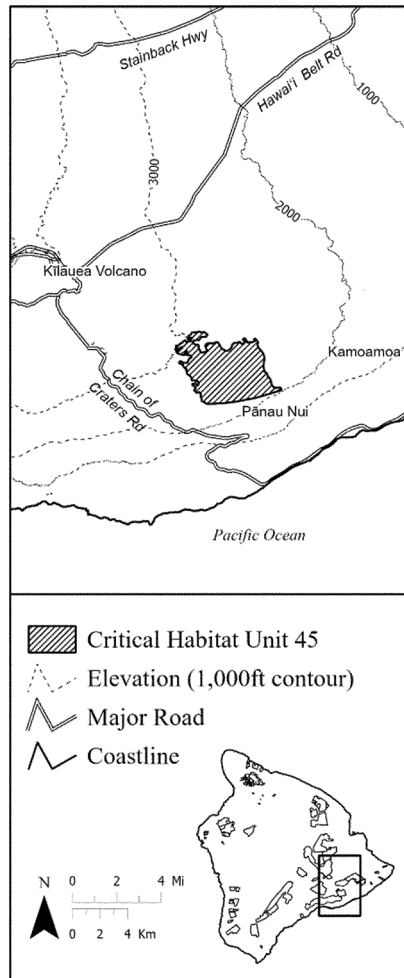
(i) This unit is also critical habitat for Hawaii 45-*Pittosporum hawaiiense*-t (see paragraph (k)(209) of this section).

(ii) Map 114 follows:

Figure 122 to paragraph (k)

MAP 114

Hawaii 45-*Phyllostegia floribunda*-q, Hawaii 45-*Pittosporum hawaiiense*-t



(209) Hawaii 45–*Pittosporum hawaiiense*-t (5,494 ac; 2,223 ha). See paragraph (k)(208)(ii) of this section for the map of this unit.

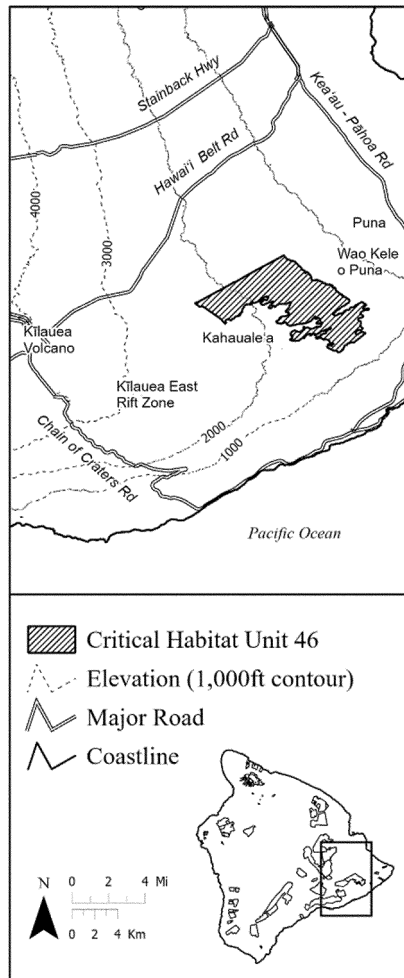
(210) Hawaii 46–*Cyrtandra nanawaleensis*-b (12,219 ac; 4,945 ha)

(i) This unit is also critical habitat for Hawaii 46–*Phyllostegia floribunda*-r (see paragraph (k)(211) of this section).

(ii) Map 115 follows:
Figure 123 to paragraph (k)

MAP 115

Hawaii 46–*Cyrtandra nanawaleensis*-b,
Hawaii 46–*Phyllostegia floribunda*-r



(211) Hawaii 46-*Phyllostegia floribunda*-r (12,219 ac; 4,945 ha). See paragraph (k)(210)(ii) of this section for the map of this unit.

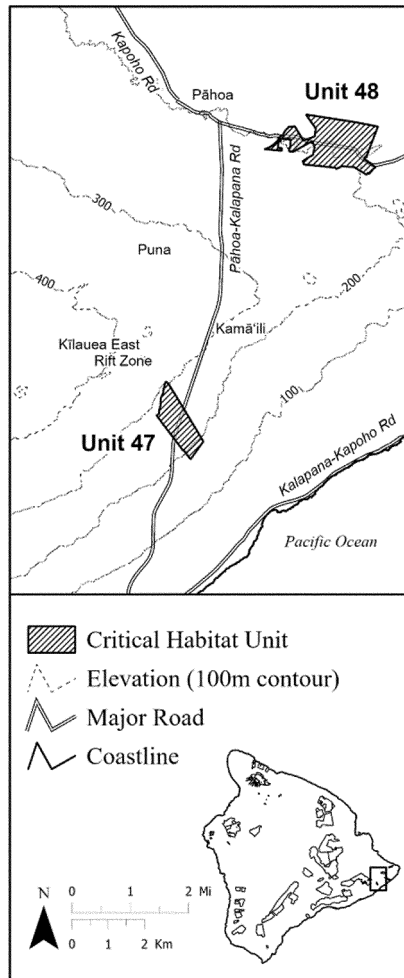
(212) Hawaii 47-*Cyrtandra nanawaleensis*-c (274 ac; 111 ha)

(i) [Reserved]

(ii) Map 116 follows:
Figure 124 to paragraph (k)

MAP 116

Hawaii 47-*Cyrtandra nanawaleensis*-c,
Hawaii 48-*Cyrtandra nanawaleensis*-d



(213) Hawaii 48—*Cyrtandra nanawaleensis*-d (589 ac; 238 ha). See paragraph (k)(212)(ii) of this section for the map of this unit.

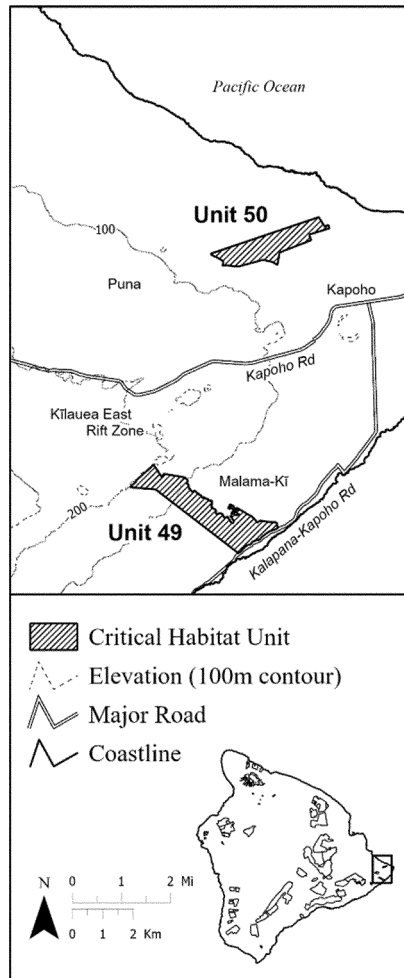
(214) Hawaii 49—*Cyrtandra nanawaleensis*-e (875 ac; 354 ha)

(i) [Reserved].

(ii) Map 117 follows:
Figure 125 to paragraph (k)

MAP 117

Hawaii 49—*Cyrtandra nanawaleensis*-e,
Hawaii 50—*Cyrtandra nanawaleensis*-f



(215) Hawaii 50-*Cyrtandra nanawaleensis*-f (562 ac; 227 ha). See paragraph (k)(214)(ii) of this section for the map of this unit.

(216) Hawaii 51-*Cyanea tritomantha*-i (17,774 ac; 7,193 ha).

(i) This unit is also critical habitat for Hawaii 51-*Phyllostegia floribunda*-s, Hawaii 51-*Pittosporum hawaiiense*-u, Hawaii 51-*Schiedea diffusa* ssp. *macraei*-s, and Hawaii 51-*Stenogyne cranwelliae*-s (see paragraphs (k)(217), (k)(218),

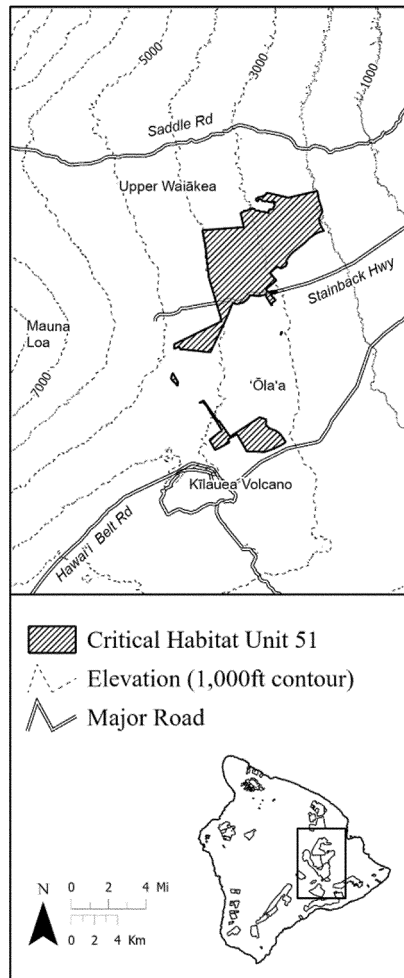
(k)(219), and (k)(220), respectively, of this section).

(ii) Map 118 follows:

Figure 126 to paragraph (k)

MAP 118

Hawaii 51-*Cyanea tritomantha*-i, Hawaii 51-*Phyllostegia floribunda*-s, Hawaii 51-*Pittosporum hawaiiense*-u, Hawaii 51-*Schiedea diffusa* ssp. *macraei*-s, Hawaii 51-*Stenogyne cranwelliae*-s



(217) Hawaii 51-*Phyllostegia floribunda*-s (17,774 ac; 7,193 ha). See paragraph (k)(216)(ii) of this section for the map of this unit.

(218) Hawaii 51-*Pittosporum hawaiiense*-u (17,774 ac; 7,193 ha). See paragraph (k)(216)(ii) of this section for the map of this unit.

(219) Hawaii 51-*Schiedea diffusa* ssp. *macraei*-s (17,774 ac; 7,193 ha). See paragraph (k)(216)(ii) of this section for the map of this unit.

(220) Hawaii 51-*Stenogyne cranwelliae*-s (17,774 ac; 7,193 ha). See paragraph

(k)(216)(ii) of this section for the map of this unit.

(221) Hawaii 52-*Cyanea tritomantha*-j (3,656 ac; 1,479 ha).

(i) This unit is also critical habitat for Hawaii 52-*Cyrtandra wagneri*-b, Hawaii 52-*Melicope remyi*-d, Hawaii 52-*Phyllostegia floribunda*-t, Hawaii 52-*Pittosporum hawaiiense*-v, Hawaii 52-*Schiedea diffusa* ssp. *macraei*-t, and Hawaii 52-*Stenogyne cranwelliae*-t (see paragraphs (k)(222), (k)(223), (k)(224), (k)(225), (k)(226), and (k)(227), respectively, of this section).

(ii) Map 119 follows:

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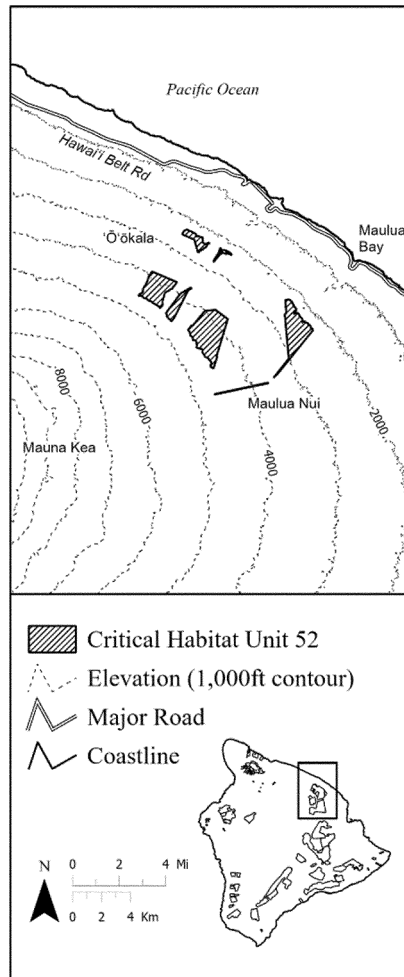
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Figure 127 to paragraph (k)

MAP 119

Hawaii 52-*Cyanea tritomantha*-j, Hawaii
52-*Cyrtandra wagneri*-b, Hawaii 52-

Melicope remyi-d, Hawaii 52-
Phyllostegia floribunda-t, Hawaii 52-
Pittosporum hawaiiense-v, Hawaii 52-
Schiedea diffusa ssp. *macraei*-t, Hawaii
52-*Stenogyne cranwelliae*-t



(222) Hawaii 52-*Cyrtandra wagneri*-b (3,656 ac; 1,479 ha). See paragraph (k)(221)(ii) of this section for the map of this unit.

(223) Hawaii 52-*Melicope remyi*-d (3,656 ac; 1,479 ha). See paragraph (k)(221)(ii) of this section for the map of this unit.

(224) Hawaii 52-*Phyllostegia floribunda*-t (3,656 ac; 1,479 ha). See paragraph (k)(221)(ii) of this section for the map of this unit.

(225) Hawaii 52-*Pittosporum hawaiiense*-v (3,656 ac; 1,479 ha). See paragraph (k)(221)(ii) of this section for the map of this unit.

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(226) Hawaii 52–*Schiedea diffusa* ssp. *macraei*-t (3,656 ac; 1,479 ha). See paragraph (k)(221)(ii) of this section for the map of this unit.

(227) Hawaii 52–*Stenogyne cranwelliae*-t (3,656 ac; 1,479 ha). See paragraph (k)(221)(ii) of this section for the map of this unit.

(228) Hawaii 53–*Bidens hillebrandiana* ssp. *hillebrandiana*-b (154 ac; 62 ha)

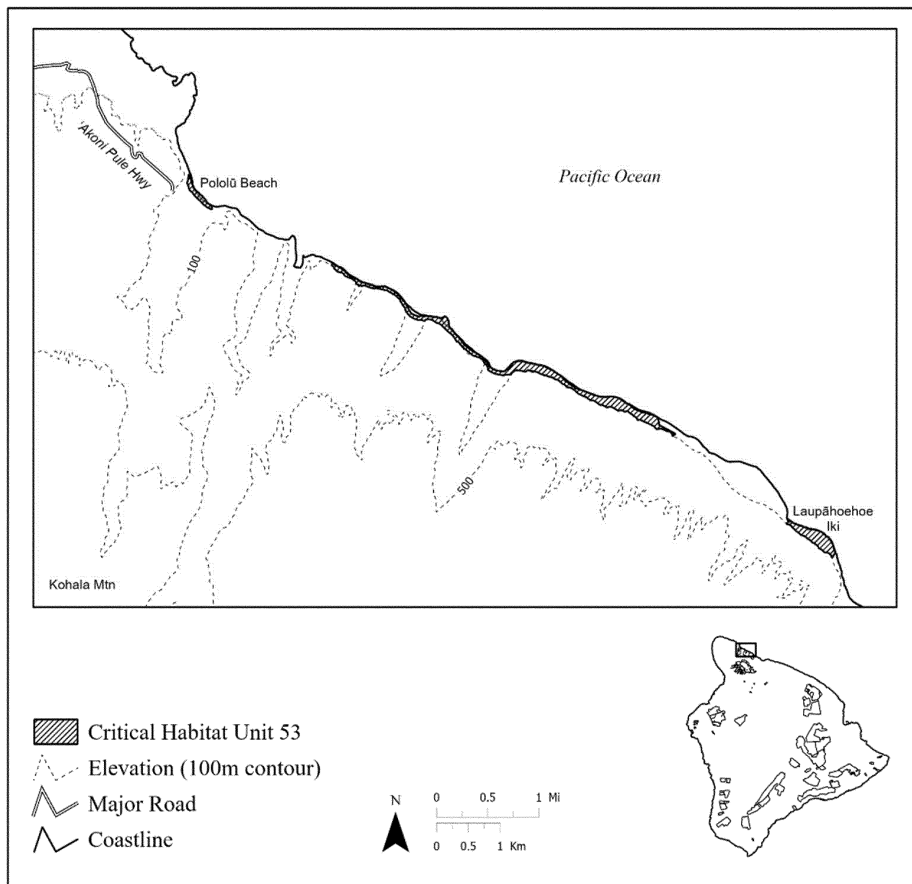
(i) [Reserved].

(ii) Map 120 follows:

Figure 128 to paragraph (k)

MAP 120

Hawaii 53–*Bidens hillebrandiana* ssp. *hillebrandiana*-b



(229) Hawaii 54–*Cyanea tritomantha*-k (5,945 ac; 2,406 ha).

(i) This unit is also critical habitat for Hawaii 54–*Melicope remyi*-e, Hawaii 54–*Phyllostegia floribunda*-u, Hawaii 54–*Pittosporum hawaiiense*-w, Hawaii 54–*Schiedea diffusa* ssp. *macraei*-u, and Hawaii 54–*Stenogyne cranwelliae*-u (see

paragraphs (k)(230), (k)(231), (k)(232), (k)(233), and (k)(234), respectively, of this section).

(ii) Map 121 follows:

Figure 129 to paragraph (k)

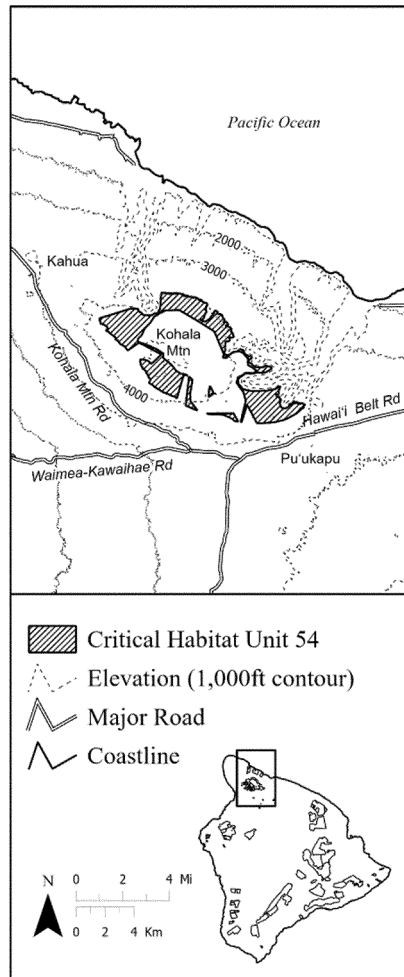
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MAP 121

Hawaii 54–*Cyanea tritomantha*-k, Hawaii
54–*Melicope remyi*-e, Hawaii 54–

Phyllostegia floribunda-u, Hawaii 54–
Pittosporum hawaiiense-w, Hawaii 54–
Schiedea diffusa ssp. *macraei*-u, Ha-
waii 54–*Stenogyne cranwelliae*-u



(230) Hawaii 54–*Melicope remyi*-e (5,945 ac; 2,406 ha). See paragraph (k)(229)(ii) of this section for the map of this unit.

(231) Hawaii 54–*Phyllostegia floribunda*-u (5,945 ac; 2,406 ha). See paragraph (k)(229)(ii) of this section for the map of this unit.

(232) Hawaii 54–*Pittosporum hawaiiense*-w (5,945 ac; 2,406 ha). See

paragraph (k)(229)(ii) of this section for the map of this unit.

(233) Hawaii 54–*Schiedea diffusa* ssp. *macraei*-u (5,945 ac; 2,406 ha). See paragraph (k)(229)(ii) of this section for the map of this unit.

(234) Hawaii 54–*Stenogyne cranwelliae*-u (5,945 ac; 2,406 ha). See paragraph

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(k)(229)(ii) of this section for the map of this unit.

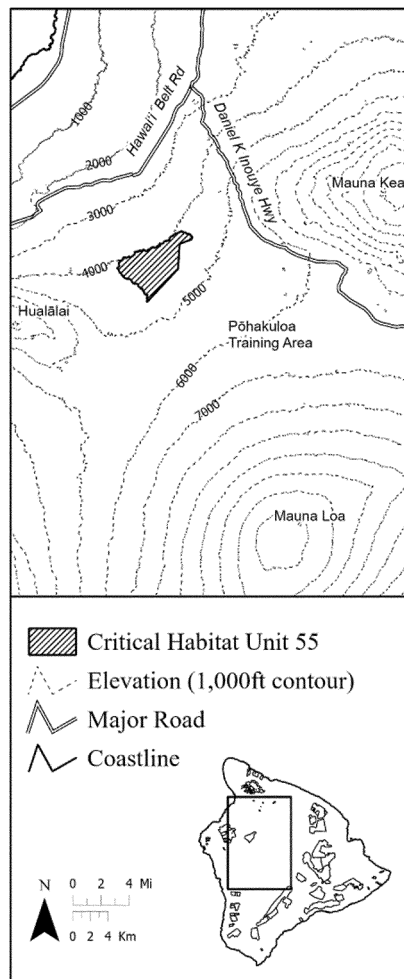
(235) Hawaii 55–*Schiedea hawaiiensis*-a (6,822 ac; 2,761 ha)

(i) [Reserved].

(ii) Map 122 follows:
Figure 130 to paragraph (k)

MAP 122

Hawaii 55–*Schiedea hawaiiensis*-a



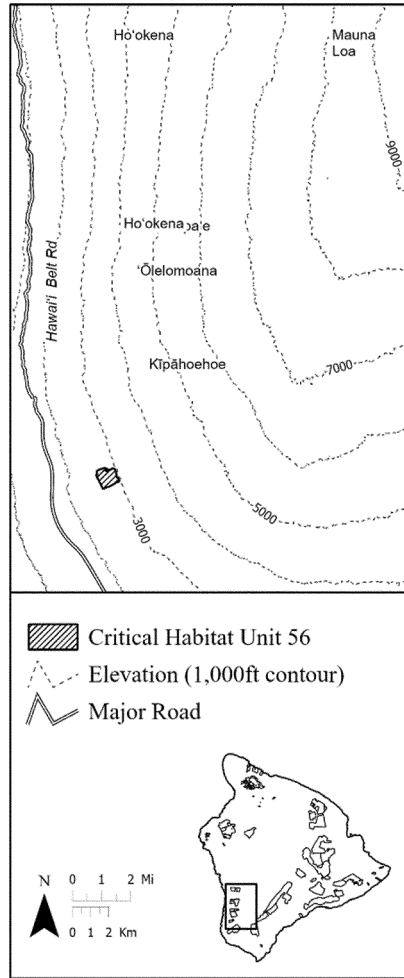
(236) Hawaii 56–*Cyanea marksii*-i (224 ac; 91 ha)

(i) This unit is also critical habitat for Hawaii 56–*Schiedea diffusa* ssp. *macraei*-v (see paragraph (k)(237) of this section).

(ii) Map 123 follows:
Figure 131 to paragraph (k)

MAP 123

Hawaii 56–*Cyanea marksii*-i, Hawaii 56–*Schiedea diffusa* ssp. *macraei*-v



(237) Hawaii 56—*Schiedea diffusa* ssp. *macraei*-v (224 ac; 91 ha). See paragraph (k)(236)(ii) of this section for the map of this unit.

(238) Table of Listed Species Within Each Critical Habitat Unit for the Island of Hawaii.

Unit name	Species occupied	Species unoccupied
Hawaii 1— <i>Clermontia lindseyana</i> -a	<i>Clermontia lindseyana</i>	<i>Clermontia lindseyana</i> .
Hawaii 1— <i>Clermontia peleana</i> -a	<i>Clermontia peleana</i>	<i>Clermontia peleana</i> .
Hawaii 1— <i>Clermontia pyrularia</i> -a	<i>Clermontia pyrularia</i>	<i>Clermontia pyrularia</i> .
Hawaii 1— <i>Cyanea shipmanii</i> -a	<i>Cyanea shipmanii</i>	<i>Cyanea shipmanii</i> .
Hawaii 1— <i>Phyllostegia racemosa</i> -a	<i>Phyllostegia racemosa</i>	<i>Phyllostegia racemosa</i> .
Hawaii 2— <i>Clermontia lindseyana</i> -b	<i>Clermontia lindseyana</i>	<i>Clermontia lindseyana</i> .
Hawaii 2— <i>Clermontia pyrularia</i> -b	<i>Clermontia pyrularia</i>	<i>Clermontia pyrularia</i> .
Hawaii 2— <i>Phyllostegia racemosa</i> -b	<i>Phyllostegia racemosa</i>	<i>Phyllostegia racemosa</i> .
Hawaii 3— <i>Clermontia peleana</i> -b	<i>Clermontia peleana</i>	<i>Clermontia peleana</i> .
Hawaii 3— <i>Cyanea platyphylla</i> -a	<i>Cyanea platyphylla</i>	<i>Cyanea platyphylla</i> .
Hawaii 3— <i>Cyanea tritomantha</i> -a	<i>Cyanea tritomantha</i>	<i>Cyanea tritomantha</i> .
Hawaii 3— <i>Cyrtandra giffardii</i> -a	<i>Cyrtandra giffardii</i>	<i>Cyrtandra giffardii</i> .

Unit name	Species occupied	Species unoccupied
Hawaii 3— <i>Cyrtandra tintinnabula</i> -a	<i>Cyrtandra tintinnabula</i>	<i>Cyrtandra tintinnabula</i> .
Hawaii 3— <i>Cyrtandra wagneri</i> -a	<i>Cyrtandra wagneri</i>	<i>Cyrtandra wagneri</i> .
Hawaii 3— <i>Melicope remyi</i> -a	<i>Melicope remyi</i>	<i>Melicope remyi</i> .
Hawaii 3— <i>Phyllostegia floribunda</i> -a	<i>Phyllostegia floribunda</i>	<i>Phyllostegia floribunda</i> .
Hawaii 3— <i>Phyllostegia warshaueri</i> -a	<i>Phyllostegia warshaueri</i>	<i>Phyllostegia warshaueri</i> .
Hawaii 3— <i>Pittosporum hawaiiense</i> -a .....	.....	<i>Pittosporum hawaiiense</i> .
Hawaii 3— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -a .....	.....	<i>Schiedea diffusa</i> ssp. <i>macraei</i> .
Hawaii 3— <i>Stenogyne cranwelliae</i> -a	<i>Stenogyne cranwelliae</i>	<i>Stenogyne cranwelliae</i> .
Hawaii 4— <i>Isodendron hosakae</i> -a .....	.....	<i>Isodendron hosakae</i> .
Hawaii 4— <i>Isodendron hosakae</i> -b .....	.....	<i>Isodendron hosakae</i> .
Hawaii 4— <i>Isodendron hosakae</i> -c .....	.....	<i>Isodendron hosakae</i> .
Hawaii 4— <i>Isodendron hosakae</i> -d .....	.....	<i>Isodendron hosakae</i> .
Hawaii 4— <i>Isodendron hosakae</i> -e .....	.....	<i>Isodendron hosakae</i> .
Hawaii 4— <i>Isodendron hosakae</i> -f	<i>Isodendron hosakae</i>	<i>Isodendron hosakae</i> .
Hawaii 4— <i>Vigna o-wahuensis</i> -a .....	.....	<i>Vigna o-wahuensis</i> .
Hawaii 4— <i>Vigna o-wahuensis</i> -b .....	.....	<i>Vigna o-wahuensis</i> .
Hawaii 4— <i>Vigna o-wahuensis</i> -c .....	.....	<i>Vigna o-wahuensis</i> .
Hawaii 5— <i>Nothoecstrum breviflorum</i> -a .....	.....	<i>Nothoecstrum breviflorum</i> .
Hawaii 6— <i>Bidens hillebrandiana</i> ssp. <i>hillebrandiana</i> -a	<i>Bidens hillebrandiana</i> ssp. <i>hillebrandiana</i>	<i>Bidens hillebrandiana</i> ssp. <i>hillebrandiana</i> .
Hawaii 6— <i>Nothoecstrum breviflorum</i> -b	<i>Nothoecstrum breviflorum</i>	<i>Nothoecstrum breviflorum</i> .
Hawaii 7— <i>Dracaena konaensis</i> -a	<i>Dracaena konaensis</i>	<i>Dracaena konaensis</i> .
Hawaii 8— <i>Clermontia drepanomorpha</i> -a	<i>Clermontia drepanomorpha</i>	<i>Clermontia drepanomorpha</i> .
Hawaii 8— <i>Cyanea tritomantha</i> -b	<i>Cyanea tritomantha</i>	<i>Cyanea tritomantha</i> .
Hawaii 8— <i>Melicope remyi</i> -b .....	.....	<i>Melicope remyi</i> .
Hawaii 8— <i>Phyllostegia floribunda</i> -b .....	.....	<i>Phyllostegia floribunda</i> .
Hawaii 8— <i>Phyllostegia warshaueri</i> -b	<i>Phyllostegia warshaueri</i>	<i>Phyllostegia warshaueri</i> .
Hawaii 8— <i>Pittosporum hawaiiense</i> -b	<i>Pittosporum hawaiiense</i>	<i>Pittosporum hawaiiense</i> .
Hawaii 8— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -b	<i>Schiedea diffusa</i> ssp. <i>macraei</i>	<i>Schiedea diffusa</i> ssp. <i>macraei</i> .
Hawaii 8— <i>Stenogyne cranwelliae</i> -b	<i>Stenogyne cranwelliae</i>	<i>Stenogyne cranwelliae</i> .
Hawaii 9— <i>Achyranthes mutica</i> -a .....	.....	<i>Achyranthes mutica</i> .
Hawaii 9— <i>Achyranthes mutica</i> -b	<i>Achyranthes mutica</i>	<i>Achyranthes mutica</i> .
Hawaii 9— <i>Achyranthes mutica</i> -c .....	.....	<i>Achyranthes mutica</i> .
Hawaii 9— <i>Achyranthes mutica</i> -d .....	.....	<i>Achyranthes mutica</i> .
Hawaii 9— <i>Achyranthes mutica</i> -e .....	.....	<i>Achyranthes mutica</i> .
Hawaii 9— <i>Achyranthes mutica</i> -f .....	.....	<i>Achyranthes mutica</i> .
Hawaii 9— <i>Achyranthes mutica</i> -g .....	.....	<i>Achyranthes mutica</i> .
Hawaii 9— <i>Achyranthes mutica</i> -h .....	.....	<i>Achyranthes mutica</i> .
Hawaii 9— <i>Achyranthes mutica</i> -i .....	.....	<i>Achyranthes mutica</i> .
Hawaii 9— <i>Achyranthes mutica</i> -j .....	.....	<i>Achyranthes mutica</i> .
Hawaii 9— <i>Cyanea tritomantha</i> -c	<i>Cyanea tritomantha</i>	<i>Cyanea tritomantha</i> .
Hawaii 9— <i>Melicope remyi</i> -c .....	.....	<i>Melicope remyi</i> .
Hawaii 9— <i>Phyllostegia floribunda</i> -c .....	.....	<i>Phyllostegia floribunda</i> .
Hawaii 9— <i>Pittosporum hawaiiense</i> -c	<i>Pittosporum hawaiiense</i>	<i>Pittosporum hawaiiense</i> .
Hawaii 9— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -c	<i>Schiedea diffusa</i> ssp. <i>macraei</i>	<i>Schiedea diffusa</i> ssp. <i>macraei</i> .
Hawaii 9— <i>Stenogyne cranwelliae</i> -c	<i>Stenogyne cranwelliae</i>	<i>Stenogyne cranwelliae</i> .
Hawaii 10— <i>Argyroxiphium kauense</i> -a .....	.....	<i>Argyroxiphium kauense</i> .
Hawaii 10— <i>Bidens micrantha</i> ssp. <i>ctenophylla</i> -a .....	.....	<i>Bidens micrantha</i> ssp. <i>ctenophylla</i> .
Hawaii 10— <i>Bonamia menziesii</i> -a .....	.....	<i>Bonamia menziesii</i> .
Hawaii 10— <i>Colubrina oppositifolia</i> -a	<i>Colubrina oppositifolia</i>	<i>Colubrina oppositifolia</i> .
Hawaii 10— <i>Delissea undulata</i> -a .....	.....	<i>Delissea undulata</i> .
Hawaii 10— <i>Delissea undulata</i> -b	<i>Delissea undulata</i>	<i>Delissea undulata</i> .
Hawaii 10— <i>Dracaena konaensis</i> -b	<i>Dracaena konaensis</i>	<i>Dracaena konaensis</i> .
Hawaii 10— <i>Hibiscadelphus hualalaiensis</i> -a	<i>Hibiscadelphus hualalaiensis</i>	<i>Hibiscadelphus hualalaiensis</i> .
Hawaii 10— <i>Hibiscus brackenridgei</i> -a	<i>Hibiscus brackenridgei</i>	<i>Hibiscus brackenridgei</i> .
Hawaii 10— <i>Isodendron pyriformum</i> -a .....	.....	<i>Isodendron pyriformum</i> .
Hawaii 10— <i>Mezoneuron kavaense</i> -a	<i>Mezoneuron kavaense</i>	<i>Mezoneuron kavaense</i> .
Hawaii 10— <i>Neraudia ovata</i> -a .....	.....	<i>Neraudia ovata</i> .
Hawaii 10— <i>Nothoecstrum breviflorum</i> -c	<i>Nothoecstrum breviflorum</i>	<i>Nothoecstrum breviflorum</i> .
Hawaii 10— <i>Solanum incompletum</i> -a .....	.....	<i>Solanum incompletum</i> .
Hawaii 10— <i>Zanthoxylum dipetalum</i> ssp. <i>tomentosum</i> -a	<i>Zanthoxylum dipetalum</i> ssp. <i>tomentosum</i>	<i>Zanthoxylum dipetalum</i> ssp. <i>tomentosum</i> .
Hawaii 11— <i>Cyanea hamatiflora</i> ssp. <i>carlsonii</i> -a	<i>Cyanea hamatiflora</i> ssp. <i>carlsonii</i>	<i>Cyanea hamatiflora</i> ssp. <i>carlsonii</i> .
Hawaii 11— <i>Solanum incompletum</i> -b .....	.....	<i>Solanum incompletum</i> .
Hawaii 14— <i>Cyanea hamatiflora</i> ssp. <i>carlsonii</i> -b .....	.....	<i>Cyanea hamatiflora</i> ssp. <i>carlsonii</i> .
Hawaii 15— <i>Cyanea hamatiflora</i> ssp. <i>carlsonii</i> -c .....	.....	<i>Cyanea hamatiflora</i> ssp. <i>carlsonii</i> .

Unit name	Species occupied	Species unoccupied
Hawaii 15— <i>Cyanea marksii</i> -a Section 4	<i>Cyanea marksii</i>	<i>Cyanea marksii</i> .
Hawaii 15— <i>Cyanea marksii</i> -b—Section 5	<i>Cyanea marksii</i>	<i>Cyanea marksii</i> .
Hawaii 15— <i>Cyanea stictophylla</i> -a	<i>Cyanea stictophylla</i>	<i>Cyanea stictophylla</i> .
Hawaii 15— <i>Phyllostegia floribunda</i> -d—Section 4.	<i>Phyllostegia floribunda</i>	<i>Phyllostegia floribunda</i> .
Hawaii 15— <i>Phyllostegia floribunda</i> -e—Section 5.	.....	<i>Phyllostegia floribunda</i> .
Hawaii 15— <i>Pittosporum hawaiiense</i> -d—Section 4.	<i>Pittosporum hawaiiense</i>	<i>Pittosporum hawaiiense</i> .
Hawaii 15— <i>Pittosporum hawaiiense</i> -e—Section 5.	.....	<i>Pittosporum hawaiiense</i> .
Hawaii 15— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -d—Section 4.	.....	<i>Schiedea diffusa</i> ssp. <i>macraei</i> .
Hawaii 15— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -e—Section 5.	.....	<i>Schiedea diffusa</i> ssp. <i>macraei</i> .
Hawaii 15— <i>Stenogyne cranwelliae</i> -d—Section 4.	.....	<i>Stenogyne cranwelliae</i> .
Hawaii 15— <i>Stenogyne cranwelliae</i> -e—Section 5.	.....	<i>Stenogyne cranwelliae</i> .
Hawaii 16— <i>Cyanea hamatiflora</i> ssp. <i>carlsonii</i> -d.	<i>Cyanea hamatiflora</i> ssp. <i>carlsonii</i>	<i>Cyanea hamatiflora</i> ssp. <i>carlsonii</i> .
Hawaii 16— <i>Cyanea marksii</i> -c	<i>Cyanea marksii</i>	<i>Cyanea marksii</i> .
Hawaii 16— <i>Cyanea stictophylla</i> -b	<i>Cyanea stictophylla</i>	<i>Cyanea stictophylla</i> .
Hawaii 16— <i>Phyllostegia floribunda</i> -f	<i>Phyllostegia floribunda</i>	<i>Phyllostegia floribunda</i> .
Hawaii 16— <i>Pittosporum hawaiiense</i> -f .....	.....	<i>Pittosporum hawaiiense</i> .
Hawaii 16— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -f.	.....	<i>Schiedea diffusa</i> ssp. <i>macraei</i> .
Hawaii 16— <i>Stenogyne cranwelliae</i> -f .....	.....	<i>Stenogyne cranwelliae</i> .
Hawaii 17— <i>Asplenium dielerectum</i> -a	<i>Asplenium dielerectum</i>	<i>Asplenium dielerectum</i> .
Hawaii 17— <i>Flueggea neowawraea</i> -a	<i>Flueggea neowawraea</i>	<i>Flueggea neowawraea</i> .
Hawaii 18— <i>Asplenium dielerectum</i> -b	<i>Asplenium dielerectum</i>	<i>Asplenium dielerectum</i> .
Hawaii 18— <i>Colubrina oppositifolia</i> -b	<i>Colubrina oppositifolia</i>	<i>Colubrina oppositifolia</i> .
Hawaii 18— <i>Dracaena konaensis</i> -c	<i>Dracaena konaensis</i>	<i>Dracaena konaensis</i> .
Hawaii 18— <i>Flueggea neowawraea</i> -b	<i>Flueggea neowawraea</i>	<i>Flueggea neowawraea</i> .
Hawaii 18— <i>Gouania vitifolia</i> -a	<i>Gouania vitifolia</i>	<i>Gouania vitifolia</i> .
Hawaii 18— <i>Neraudia ovata</i> -d	<i>Neraudia ovata</i>	<i>Neraudia ovata</i> .
Hawaii 19— <i>Mariscus fauriei</i> -a	<i>Mariscus fauriei</i>	<i>Mariscus fauriei</i> .
Hawaii 20— <i>Sesbania tomentosa</i> -a	<i>Sesbania tomentosa</i>	<i>Sesbania tomentosa</i> .
Hawaii 21— <i>Ischaemum byrone</i> -a	<i>Ischaemum byrone</i>	<i>Ischaemum byrone</i> .
Hawaii 22— <i>Ischaemum byrone</i> -b	<i>Ischaemum byrone</i>	<i>Ischaemum byrone</i> .
Hawaii 23— <i>Dracaena konaensis</i> -d	<i>Dracaena konaensis</i>	<i>Dracaena konaensis</i> .
Hawaii 23— <i>Phyllostegia floribunda</i> -g	<i>Phyllostegia floribunda</i>	<i>Phyllostegia floribunda</i> .
Hawaii 23— <i>Pittosporum hawaiiense</i> -g	<i>Pittosporum hawaiiense</i>	<i>Pittosporum hawaiiense</i> .
Hawaii 23— <i>Sesbania tomentosa</i> -b	<i>Sesbania tomentosa</i>	<i>Sesbania tomentosa</i> .
Hawaii 24— <i>Argyroxiphium kauense</i> -b	<i>Argyroxiphium kauense</i>	<i>Argyroxiphium kauense</i> .
Hawaii 24— <i>Asplenium fragile</i> var. <i>insulare</i> -a.	<i>Asplenium fragile</i> var. <i>insulare</i>	<i>Asplenium fragile</i> var. <i>insulare</i> .
Hawaii 24— <i>Cyanea stictophylla</i> -c .....	.....	<i>Cyanea stictophylla</i> .
Hawaii 24— <i>Cyanea tritomantha</i> -d—Section 8.	<i>Cyanea tritomantha</i>	<i>Cyanea tritomantha</i> .
Hawaii 24— <i>Melicope zahlbruckneri</i> -a .....	.....	<i>Melicope zahlbruckneri</i> .
Hawaii 24— <i>Phyllostegia velutina</i> -a	<i>Phyllostegia velutina</i>	<i>Phyllostegia velutina</i> .
Hawaii 24— <i>Pittosporum hawaiiense</i> -h—Section 8.	<i>Pittosporum hawaiiense</i>	<i>Pittosporum hawaiiense</i> .
Hawaii 24— <i>Pittosporum hawaiiense</i> -i—Section 9.	<i>Pittosporum hawaiiense</i>	<i>Pittosporum hawaiiense</i> .
Hawaii 24— <i>Plantago hawaiiensis</i> -a	<i>Plantago hawaiiensis</i>	<i>Plantago hawaiiensis</i> .
Hawaii 24— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -g—Section 8.	<i>Schiedea diffusa</i> ssp. <i>macraei</i>	<i>Schiedea diffusa</i> ssp. <i>macraei</i> .
Hawaii 24— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -h—Section 9.	<i>Schiedea diffusa</i> ssp. <i>macraei</i>	<i>Schiedea diffusa</i> ssp. <i>macraei</i> .
Hawaii 24— <i>Stenogyne cranwelliae</i> -g—Section 8.	.....	<i>Stenogyne cranwelliae</i> .
Hawaii 24— <i>Stenogyne cranwelliae</i> -h—Section 9.	.....	<i>Stenogyne cranwelliae</i> .
Hawaii 25— <i>Argyroxiphium kauense</i> -c	<i>Argyroxiphium kauense</i>	<i>Argyroxiphium kauense</i> .
Hawaii 25— <i>Plantago hawaiiensis</i> -b	<i>Plantago hawaiiensis</i>	<i>Plantago hawaiiensis</i> .
Hawaii 25— <i>Silene hawaiiensis</i> -a	<i>Silene hawaiiensis</i>	<i>Silene hawaiiensis</i> .
Hawaii 26— <i>Hibiscadelphus giffardianus</i> -a	<i>Hibiscadelphus giffardianus</i>	<i>Hibiscadelphus giffardianus</i> .
Hawaii 26— <i>Melicope zahlbruckneri</i> -b	<i>Melicope zahlbruckneri</i>	<i>Melicope zahlbruckneri</i> .
Hawaii 27— <i>Portulaca sclerocarpa</i> -a	<i>Portulaca sclerocarpa</i>	<i>Portulaca sclerocarpa</i> .
Hawaii 27— <i>Silene hawaiiensis</i> -b	<i>Silene hawaiiensis</i>	<i>Silene hawaiiensis</i> .
Hawaii 28— <i>Adenophorus periens</i> -a	<i>Adenophorus periens</i>	<i>Adenophorus periens</i> .
Hawaii 28— <i>Cyrtandra nanawaleensis</i> -a	<i>Cyrtandra nanawaleensis</i>	<i>Cyrtandra nanawaleensis</i> .

Unit name	Species occupied	Species unoccupied
Hawaii 28— <i>Phyllostegia floribunda</i> -h	<i>Phyllostegia floribunda</i>	<i>Phyllostegia floribunda</i> .
Hawaii 29— <i>Clermontia peleana</i> -c	<i>Clermontia peleana</i>	<i>Clermontia peleana</i> .
Hawaii 29— <i>Cyanea platyphylla</i> -b	<i>Cyanea platyphylla</i>	<i>Cyanea platyphylla</i> .
Hawaii 29— <i>Cyanea tritomantha</i> -e	<i>Cyanea tritomantha</i>	<i>Cyanea tritomantha</i> .
Hawaii 29— <i>Cyrtandra giffardii</i> -b	<i>Cyrtandra giffardii</i>	<i>Cyrtandra giffardii</i> .
Hawaii 29— <i>Cyrtandra tintinnabula</i> -b	<i>Cyrtandra tintinnabula</i>	<i>Cyrtandra tintinnabula</i> .
Hawaii 29— <i>Phyllostegia floribunda</i> -i	<i>Phyllostegia floribunda</i>	<i>Phyllostegia floribunda</i> .
Hawaii 29— <i>Pittosporum hawaiiense</i> -j	<i>Pittosporum hawaiiense</i>	<i>Pittosporum hawaiiense</i> .
Hawaii 29— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -i.	<i>Schiedea diffusa</i> ssp. <i>macraei</i>	<i>Schiedea diffusa</i> ssp. <i>macraei</i> .
Hawaii 29— <i>Stenogyne cranwelliae</i> -i	<i>Stenogyne cranwelliae</i>	<i>Stenogyne cranwelliae</i> .
Hawaii 30— <i>Argyroxiphium kauense</i> -d	<i>Argyroxiphium kauense</i>	<i>Argyroxiphium kauense</i> .
Hawaii 30— <i>Clermontia lindseyana</i> -c	<i>Clermontia lindseyana</i>	<i>Clermontia lindseyana</i> .
Hawaii 30— <i>Cyanea shipmanii</i> -b	<i>Cyanea shipmanii</i>	<i>Cyanea shipmanii</i> .
Hawaii 30— <i>Cyanea shipmanii</i> -c	<i>Cyanea shipmanii</i>	<i>Cyanea shipmanii</i> .
Hawaii 30— <i>Cyanea stictophylla</i> -d	<i>Cyanea stictophylla</i>	<i>Cyanea stictophylla</i> .
Hawaii 30— <i>Cyanea tritomantha</i> -f	<i>Cyanea tritomantha</i>	<i>Cyanea tritomantha</i> .
Hawaii 30— <i>Cyrtandra giffardii</i> -c	<i>Cyrtandra giffardii</i>	<i>Cyrtandra giffardii</i> .
Hawaii 30— <i>Phyllostegia floribunda</i> -j	<i>Phyllostegia floribunda</i>	<i>Phyllostegia floribunda</i> .
Hawaii 30— <i>Phyllostegia racemosa</i> -c	<i>Phyllostegia racemosa</i>	<i>Phyllostegia racemosa</i> .
Hawaii 30— <i>Phyllostegia velutina</i> -b	<i>Phyllostegia velutina</i>	<i>Phyllostegia velutina</i> .
Hawaii 30— <i>Pittosporum hawaiiense</i> -k	<i>Pittosporum hawaiiense</i>	<i>Pittosporum hawaiiense</i> .
Hawaii 30— <i>Plantago hawaiiensis</i> -c	<i>Plantago hawaiiensis</i>	<i>Plantago hawaiiensis</i> .
Hawaii 30— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -j.	<i>Schiedea diffusa</i> ssp. <i>macraei</i>	<i>Schiedea diffusa</i> ssp. <i>macraei</i> .
Hawaii 30— <i>Sicyos alba</i> -a	<i>Sicyos alba</i>	<i>Sicyos alba</i> .
Hawaii 30— <i>Stenogyne cranwelliae</i> -j	<i>Stenogyne cranwelliae</i>	<i>Stenogyne cranwelliae</i> .
Hawaii 31— <i>Bidens micrantha</i> ssp. <i>ctenophylla</i> -b.	<i>Bidens micrantha</i> ssp. <i>ctenophylla</i>	<i>Bidens micrantha</i> ssp. <i>ctenophylla</i> .
Hawaii 31— <i>Isodendron pyriformum</i> -b	<i>Isodendron pyriformum</i>	<i>Isodendron pyriformum</i> .
Hawaii 31— <i>Mezoneuron kavaense</i> -b	<i>Mezoneuron kavaense</i>	<i>Mezoneuron kavaense</i> .
Hawaii 33— <i>Bidens micrantha</i> ssp. <i>ctenophylla</i> -d.	<i>Bidens micrantha</i> ssp. <i>ctenophylla</i>	<i>Bidens micrantha</i> ssp. <i>ctenophylla</i> .
Hawaii 33— <i>Isodendron pyriformum</i> -d	<i>Isodendron pyriformum</i>	<i>Isodendron pyriformum</i> .
Hawaii 33— <i>Mezoneuron kavaense</i> -d	<i>Mezoneuron kavaense</i>	<i>Mezoneuron kavaense</i> .
Hawaii 34— <i>Bidens micrantha</i> ssp. <i>ctenophylla</i> -e.	<i>Bidens micrantha</i> ssp. <i>ctenophylla</i>	<i>Bidens micrantha</i> ssp. <i>ctenophylla</i> .
Hawaii 34— <i>Isodendron pyriformum</i> -e	<i>Isodendron pyriformum</i>	<i>Isodendron pyriformum</i> .
Hawaii 34— <i>Mezoneuron kavaense</i> -e	<i>Mezoneuron kavaense</i>	<i>Mezoneuron kavaense</i> .
Hawaii 36— <i>Bidens micrantha</i> ssp. <i>ctenophylla</i> -g.	<i>Bidens micrantha</i> ssp. <i>ctenophylla</i>	<i>Bidens micrantha</i> ssp. <i>ctenophylla</i> .
Hawaii 36— <i>Isodendron pyriformum</i> -g	<i>Isodendron pyriformum</i>	<i>Isodendron pyriformum</i> .
Hawaii 37— <i>Cyanea marksii</i> -d	<i>Cyanea marksii</i>	<i>Cyanea marksii</i> .
Hawaii 37— <i>Phyllostegia floribunda</i> -k	<i>Phyllostegia floribunda</i>	<i>Phyllostegia floribunda</i> .
Hawaii 37— <i>Pittosporum hawaiiense</i> -l	<i>Pittosporum hawaiiense</i>	<i>Pittosporum hawaiiense</i> .
Hawaii 37— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -k.	<i>Schiedea diffusa</i> ssp. <i>macraei</i>	<i>Schiedea diffusa</i> ssp. <i>macraei</i> .
Hawaii 37— <i>Stenogyne cranwelliae</i> -k	<i>Stenogyne cranwelliae</i>	<i>Stenogyne cranwelliae</i> .
Hawaii 38— <i>Cyanea marksii</i> -e	<i>Cyanea marksii</i>	<i>Cyanea marksii</i> .
Hawaii 38— <i>Phyllostegia floribunda</i> -l	<i>Phyllostegia floribunda</i>	<i>Phyllostegia floribunda</i> .
Hawaii 38— <i>Pittosporum hawaiiense</i> -m	<i>Pittosporum hawaiiense</i>	<i>Pittosporum hawaiiense</i> .
Hawaii 38— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -l.	<i>Schiedea diffusa</i> ssp. <i>macraei</i>	<i>Schiedea diffusa</i> ssp. <i>macraei</i> .
Hawaii 38— <i>Stenogyne cranwelliae</i> -l	<i>Stenogyne cranwelliae</i>	<i>Stenogyne cranwelliae</i> .
Hawaii 39— <i>Cyanea marksii</i> -f	<i>Cyanea marksii</i>	<i>Cyanea marksii</i> .
Hawaii 39— <i>Phyllostegia floribunda</i> -m	<i>Phyllostegia floribunda</i>	<i>Phyllostegia floribunda</i> .
Hawaii 39— <i>Pittosporum hawaiiense</i> -n	<i>Pittosporum hawaiiense</i>	<i>Pittosporum hawaiiense</i> .
Hawaii 39— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -m.	<i>Schiedea diffusa</i> ssp. <i>macraei</i>	<i>Schiedea diffusa</i> ssp. <i>macraei</i> .
Hawaii 39— <i>Stenogyne cranwelliae</i> -m	<i>Stenogyne cranwelliae</i>	<i>Stenogyne cranwelliae</i> .
Hawaii 40— <i>Cyanea marksii</i> -g	<i>Cyanea marksii</i>	<i>Cyanea marksii</i> .
Hawaii 40— <i>Phyllostegia floribunda</i> -n	<i>Phyllostegia floribunda</i>	<i>Phyllostegia floribunda</i> .
Hawaii 40— <i>Pittosporum hawaiiense</i> -o	<i>Pittosporum hawaiiense</i>	<i>Pittosporum hawaiiense</i> .
Hawaii 40— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -n.	<i>Schiedea diffusa</i> ssp. <i>macraei</i>	<i>Schiedea diffusa</i> ssp. <i>macraei</i> .
Hawaii 40— <i>Stenogyne cranwelliae</i> -n	<i>Stenogyne cranwelliae</i>	<i>Stenogyne cranwelliae</i> .
Hawaii 41— <i>Cyanea marksii</i> -h	<i>Cyanea marksii</i>	<i>Cyanea marksii</i> .
Hawaii 41— <i>Phyllostegia floribunda</i> -o	<i>Phyllostegia floribunda</i>	<i>Phyllostegia floribunda</i> .
Hawaii 41— <i>Pittosporum hawaiiense</i> -p	<i>Pittosporum hawaiiense</i>	<i>Pittosporum hawaiiense</i> .
Hawaii 41— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -o.	<i>Schiedea diffusa</i> ssp. <i>macraei</i>	<i>Schiedea diffusa</i> ssp. <i>macraei</i> .
Hawaii 41— <i>Stenogyne cranwelliae</i> -o	<i>Stenogyne cranwelliae</i>	<i>Stenogyne cranwelliae</i> .
Hawaii 42— <i>Cyanea tritomantha</i> -g	<i>Cyanea tritomantha</i>	<i>Cyanea tritomantha</i> .
Hawaii 42— <i>Phyllostegia floribunda</i> -p	<i>Phyllostegia floribunda</i>	<i>Phyllostegia floribunda</i> .

Unit name	Species occupied	Species unoccupied
Hawaii 42— <i>Pittosporum hawaiiense</i> -q	<i>Pittosporum hawaiiense</i>	<i>Pittosporum hawaiiense</i> .
Hawaii 42— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -p	<i>Schiedea diffusa</i> ssp. <i>macraei</i>	<i>Schiedea diffusa</i> ssp. <i>macraei</i> ..
Hawaii 42— <i>Stenogyne cranwelliae</i> -p .....	.....	<i>Stenogyne cranwelliae</i> .
Hawaii 43— <i>Pittosporum hawaiiense</i> -r	<i>Pittosporum hawaiiense</i>	<i>Pittosporum hawaiiense</i> .
Hawaii 43— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -q	<i>Schiedea diffusa</i> ssp. <i>macraei</i>	<i>Schiedea diffusa</i> ssp. <i>macraei</i> ..
Hawaii 43— <i>Stenogyne cranwelliae</i> -q .....	.....	<i>Stenogyne cranwelliae</i> .
Hawaii 44— <i>Cyanea tritomantha</i> -h	<i>Cyanea tritomantha</i>	<i>Cyanea tritomantha</i> .
Hawaii 44— <i>Pittosporum hawaiiense</i> -s	<i>Pittosporum hawaiiense</i>	<i>Pittosporum hawaiiense</i> .
Hawaii 44— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -r	<i>Schiedea diffusa</i> ssp. <i>macraei</i>	<i>Schiedea diffusa</i> ssp. <i>macraei</i> ..
Hawaii 44— <i>Stenogyne cranwelliae</i> -r .....	.....	<i>Stenogyne cranwelliae</i> .
Hawaii 45— <i>Phyllostegia floribunda</i> -q	<i>Phyllostegia floribunda</i>	<i>Phyllostegia floribunda</i> .
Hawaii 45— <i>Pittosporum hawaiiense</i> -t	<i>Pittosporum hawaiiense</i>	<i>Pittosporum hawaiiense</i> .
Hawaii 46— <i>Cyrtandra nanawaleensis</i> -b	<i>Cyrtandra nanawaleensis</i>	<i>Cyrtandra nanawaleensis</i> .
Hawaii 46— <i>Phyllostegia floribunda</i> -r	<i>Phyllostegia floribunda</i>	<i>Phyllostegia floribunda</i> .
Hawaii 47— <i>Cyrtandra nanawaleensis</i> -c	<i>Cyrtandra nanawaleensis</i>	<i>Cyrtandra nanawaleensis</i> .
Hawaii 48— <i>Cyrtandra nanawaleensis</i> -d	<i>Cyrtandra nanawaleensis</i>	<i>Cyrtandra nanawaleensis</i> .
Hawaii 49— <i>Cyrtandra nanawaleensis</i> -e	<i>Cyrtandra nanawaleensis</i>	<i>Cyrtandra nanawaleensis</i> .
Hawaii 50— <i>Cyrtandra nanawaleensis</i> -f	<i>Cyrtandra nanawaleensis</i>	<i>Cyrtandra nanawaleensis</i> ..
Hawaii 51— <i>Cyanea tritomantha</i> -i	<i>Cyanea tritomantha</i>	<i>Cyanea tritomantha</i> .
Hawaii 51— <i>Phyllostegia floribunda</i> -s	<i>Phyllostegia floribunda</i>	<i>Phyllostegia floribunda</i> .
Hawaii 51— <i>Pittosporum hawaiiense</i> -u	<i>Pittosporum hawaiiense</i>	<i>Pittosporum hawaiiense</i> .
Hawaii 51— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -s	<i>Schiedea diffusa</i> ssp. <i>macraei</i>	<i>Schiedea diffusa</i> ssp. <i>macraei</i> ..
Hawaii 51— <i>Stenogyne cranwelliae</i> -s .....	.....	<i>Stenogyne cranwelliae</i> .
Hawaii 52— <i>Cyanea tritomantha</i> -j	<i>Cyanea tritomantha</i>	<i>Cyanea tritomantha</i> .
Hawaii 52— <i>Cyrtandra wagneri</i> -b	<i>Cyrtandra wagneri</i>	<i>Cyrtandra wagneri</i> .
Hawaii 52— <i>Melicope remyi</i> -d	<i>Melicope remyi</i>	<i>Melicope remyi</i> .
Hawaii 52— <i>Phyllostegia floribunda</i> -t	<i>Phyllostegia floribunda</i>	<i>Phyllostegia floribunda</i> .
Hawaii 52— <i>Pittosporum hawaiiense</i> -v .....	.....	<i>Pittosporum hawaiiense</i> .
Hawaii 52— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -t .....	.....	<i>Schiedea diffusa</i> ssp. <i>macraei</i> ..
Hawaii 52— <i>Stenogyne cranwelliae</i> -t	<i>Stenogyne cranwelliae</i>	<i>Stenogyne cranwelliae</i> .
Hawaii 53— <i>Bidens hillebrandiana</i> ssp. <i>hillebrandiana</i> -b	<i>Bidens hillebrandiana</i> ssp. <i>hillebrandiana</i>	<i>Bidens hillebrandiana</i> ssp. <i>hillebrandiana</i> .
Hawaii 54— <i>Cyanea tritomantha</i> -k	<i>Cyanea tritomantha</i>	<i>Cyanea tritomantha</i> .
Hawaii 54— <i>Melicope remyi</i> -e .....	.....	<i>Melicope remyi</i> .
Hawaii 54— <i>Phyllostegia floribunda</i> -u .....	.....	<i>Phyllostegia floribunda</i> .
Hawaii 54— <i>Pittosporum hawaiiense</i> -w	<i>Pittosporum hawaiiense</i>	<i>Pittosporum hawaiiense</i> .
Hawaii 54— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -u	<i>Schiedea diffusa</i> ssp. <i>macraei</i>	<i>Schiedea diffusa</i> ssp. <i>macraei</i> ..
Hawaii 54— <i>Stenogyne cranwelliae</i> -u	<i>Stenogyne cranwelliae</i>	<i>Stenogyne cranwelliae</i> .
Hawaii 55— <i>Schiedea hawaiiensis</i> -a .....	.....	<i>Schiedea hawaiiensis</i> .
Hawaii 56— <i>Cyanea marksii</i> -i .....	.....	<i>Cyanea marksii</i> .
Hawaii 56— <i>Schiedea diffusa</i> ssp. <i>macraei</i> -v .....	.....	<i>Schiedea diffusa</i> ssp. <i>macraei</i> ..

(239) Critical habitat unit descriptions and maps, and a description of primary constituent elements, for Family Malvaceae: *Kokia drynariodes* on the island of Hawaii is provided in 50 CFR 17.96(a).

(1) Plants on the island of Hawaii; Constituent elements—(1) Flowering plants.

FAMILY AMARANTHACEAE: ***Achyranthes mutica*** (NCN)

Hawaii 9—*Achyranthes mutica*—a, Hawaii 9—*Achyranthes mutica*—b, Hawaii 9—*Achyranthes mutica*—c, Hawaii 9—*Achyranthes mutica*—d, Hawaii 9—

Achyranthes mutica—e, Hawaii 9—*Achyranthes mutica*—f, Hawaii 9—*Achyranthes mutica*—g, Hawaii 9—*Achyranthes mutica*—h, Hawaii 9—*Achyranthes mutica*—i, Hawaii 9—*Achyranthes mutica*—j, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Achyranthes mutica* 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:

(i) *Acacia koaia* lowland dry forest, primarily in gulches but also in remnant stands of forest, and containing

one or more of the following associated native plant species: *Dodonaea viscosa*, *Erythrina sandwicensis*, *Metrosideros polymorpha*, *Myoporum sandwicense*, *Osteomeles anthyllidifolia*, *Nestegis sandwicensis*, *Santalum ellipticum*, or *Sophora chrysophylla*; and

(ii) Elevations between 646 and 1,509 m (2,120 and 4,949 ft).

FAMILY ASTERACEAE: ***Argyroxiphium kauense*** (MAUNA LOA SILVERSWORD)

Hawaii 10—*Argyroxiphium kauense*—a, Hawaii 24—*Argyroxiphium kauense*—b, Hawaii 25—*Argyroxiphium kauense*—c, and Hawaii 30—*Argyroxiphium kauense*—d, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Argyroxiphium kauense* 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:

(i) Moist, open forest; subalpine mesic shrubland; bogs; and weathered, old pahoehoe (smooth) or aa (rough) lava with well-developed pockets of soil, and containing one or more of the following associated native plant species: *Asplenium peruvianum* var. *insulare*, *Carex alligata*, *Carex* sp., *Coprosma ernodeoides*, *Coprosma montana*, *Deschampsia nubigena*, *Dodonaea viscosa*, *Dubautia ciliolata*, *Gahnia gahniiformis*, *Geranium cuneatum*, *Leptecophylla tameiameia*, *Metrosideros polymorpha*, *Plantago hawaiiensis*, *Rhynchospora chinensis*, *Silene hawaiiensis*, or *Vaccinium reticulatum*; and

(ii) Elevations between 1,583 and 2,246 m (5,193 and 8,024 ft).

Family Asteraceae: *Bidens hillebrandiana* ssp. *hillebrandiana* (KOOKOOLAU)

Hawaii 6—*Bidens hillebrandiana* ssp. *hillebrandiana*—a and Hawaii 53—*Bidens hillebrandiana* ssp. *hillebrandiana*—b, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Bidens hillebrandiana* ssp. *hillebrandiana* on Hawaii Island. In units Hawaii 6—*Bidens hillebrandiana* ssp. *hillebrandiana*—a and Hawaii 53—*Bidens hillebrandiana* ssp. *hillebrandiana*—b, the physical and bio-

logical features of critical habitat in coastal ecosystem are:

(i) Elevation: Less than 984 feet (ft) (300 meters (m)).

(ii) Annual precipitation: Less than 47 inches (in) (120 centimeters (cm)) to greater than 98 in (250 cm).

(iii) Substrate: Well-drained talus, calcareous slopes, dunes.

(iv) Canopy contains one or more of the following native plant genera: *Diospyros*, *Metrosideros*, *Myoporum*, *Pritchardia*.

(v) Subcanopy contains one or more of the following native plant genera: *Chenopodium*, *Gossypium*, *Heliotropium*, *Santalum*, *Scaevola*.

(vi) Understory contains one or more of the following native plant genera: *Eragrostis*, *Sesuvium*, *Sida*, *Sporobolus*.

FAMILY CAMPANULACEAE: ***Clermontia drepanomorpha*** (OHA WAI)

Hawaii 8—*Clermontia drepanomorpha*—a, identified in the legal description in paragraph (k) of this section, constitutes critical habitat for *Clermontia drepanomorpha* on Hawaii. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) *Metrosideros polymorpha*, *Cheirodendron trigynum*, and *Cibotium glaucum* dominated montane wet forests, containing one or more of the following native plant species: *Astelia menziesiana*, *Carex alligata*, *Coprosma* sp., *Cyanea pilosa*, *Leptecophylla tameiameia*, *Melicope clusiiifolia*, and *Rubus hawaiiensis*, or sphagnum moss; and

(ii) Elevations between 1,106 and 1,676 m (3,627 and 5,459 ft).

FAMILY CAMPANULACEAE: ***Clermontia lindseyana*** (OHA WAI)

Hawaii 1—*Clermontia lindseyana*—a, Hawaii 2—*Clermontia lindseyana*—b, and Hawaii 30—*Clermontia lindseyana*—c, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Clermontia lindseyana* 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:

- (i) Slightly open forest cover in wet and mesic *Metrosideros polymorpha*-*Acacia koa* forest, *M. polymorpha* forest, and mixed montane mesic *M. polymorpha*-*Acacia koa* forest and containing one or more of the following associated native plant species: *Athyrium* sp., *Cheirodendron trigynum*, *Coprosma* sp., *Leptecophylla tameiameia*, *Peperomia* sp., or *Rubus hawaiiensis*; and
- (ii) Elevations between 1,495 and 1,953 m (4,906 and 6,407 ft).

FAMILY CAMPANULACEAE: ***Clermontia peleana*** (OHA WAI)

Hawaii 1—*Clermontia peleana*—a, Hawaii 3—*Clermontia peleana*—b, and Hawaii 29—*Clermontia peleana*—c, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Clermontia peleana* 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:

- (i) Montane, wet *Metrosideros-Cibotium* forest containing one or more of the following associated native plant species: *Cheirodendron trigynum*, *Cibotium chamissoi*, *Cibotium menziesii*, *Clermontia hawaiiensis*, *Coprosma pubens*, *Cyrtandra platyphylla*, *Ilex anomala*, or *Sadleria* spp.; and
- (ii) Elevations between 663 and 1,622 m (2,175 and 5,321 ft).

FAMILY CAMPANULACEAE: ***Clermontia pyrularia*** (OHA WAI)

Hawaii 1—*Clermontia pyrularia*—a and Hawaii 2—*Clermontia pyrularia*—b, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Clermontia pyrularia* 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:

- (i) Wet and mesic montane forest dominated by *Acacia koa* or *Metrosideros polymorpha*, and subalpine dry forest dominated by *M. polymorpha*, and containing one or more of the following associated native plant species: *Coprosma* sp., *Dryopteris wallichiana*, *Hedyotis* sp., or *Rubus hawaiiensis*; and
- (ii) Elevations between 1,652 and 2,026 m (5,416 to 6,646 ft).

FAMILY CAMPANULACEAE: ***Cyanea hamatiflora*** SSP. ***carlsonii*** (HAHA)

Hawaii 11—*Cyanea hamatiflora* ssp. *carlsonii*—a, Hawaii 14—*Cyanea hamatiflora* ssp. *carlsonii*—b, Hawaii 15—*Cyanea hamatiflora* ssp. *carlsonii*—c, and Hawaii 16—*Cyanea hamatiflora* ssp. *carlsonii*—d, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Cyanea hamatiflora* ssp. *carlsonii* 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:

- (i) Mesic montane forest dominated by *Acacia koa* or *Metrosideros polymorpha*, and containing one or more of the following associated native plant species: *Athyrium* sp., *Cibotium* spp., *Clermontia clermontoides*, *Coprosma* sp., *Dryopteris* sp., *Hedyotis* sp., *Ilex anomala*, *Myoporum sandwicense*, or *Sophora chrysophylla*; and
- (ii) Elevations between 1,366 and 1,755 m (4,482 and 5,759 ft).

Family Campanulaceae: ***Cyanea marksii*** (HAHA)

Hawaii 15—*Cyanea marksii*-a-Section 4, Hawaii 15—*Cyanea marksii*-b-Section 5, Hawaii 16—*Cyanea marksii*-c, Hawaii 37—*Cyanea marksii*-d, Hawaii 38—*Cyanea marksii*-e, Hawaii 39—*Cyanea marksii*-f, Hawaii 40—*Cyanea marksii*-g, Hawaii 41—*Cyanea marksii*-h, and Hawaii 56—*Cyanea marksii*-i, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Cyanea marksii* on Hawaii Island. In units Hawaii 15—*Cyanea marksii*-a-Section 4, Hawaii 15—*Cyanea marksii*-b-Section 5, Hawaii 16—*Cyanea marksii*-c, Hawaii 37—*Cyanea marksii*-d, Hawaii 38—*Cyanea marksii*-e, Hawaii 39—*Cyanea marksii*-f, Hawaii 40—*Cyanea marksii*-g, Hawaii 41—*Cyanea marksii*-h, and Hawaii 56—*Cyanea marksii*-i, the physical and biological features of critical habitat in wet forest ecosystem are:

- (i) Elevation: Less than 7,218 ft (2,200 m).
- (ii) Annual precipitation: Greater than 98 in (250 cm).

(iii) Substrate: Very weathered soils to rocky substrate, basaltic lava, undeveloped soils, developed soils.

(iv) Canopy contains one or more of the following native plant genera: *Acacia*, *Antidesma*, *Cheirodendron*, *Ilex*, *Melicope*, *Metrosideros*, *Myrsine*, *Pittosporum*, *Psychotria*.

(v) Subcanopy contains one or more of the following native plant genera: *Cibotium*, *Clermontia*, *Coprosma*, *Cyanea*, *Freycinetia*, *Hydrangea*, *Vaccinium*.

(vi) Understory contains one or more of the following native plant genera: *Adenophorus*, *Cibotium*, *Cyrtandra*, *Dicranopteris*, *Huperzia*, *Peperomia*, *Stenogyne*.

FAMILY CAMPANULACEAE: *Cyanea platyphylla* (AKUAKU)

Hawaii 3—*Cyanea platyphylla*—a and Hawaii 29—*Cyanea platyphylla*—b, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Cyanea platyphylla* 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:

(i) *Metrosideros polymorpha*—*Acacia koa* lowland and montane wet forests, containing one or more of the following associated native plant species: *Antidesma platyphyllum*, *Cibotium* sp., *Clermontia* spp., *Coprosma* sp., *Cyrtandra* spp., *Hedyotis* sp., *Perrottetia sandwicensis*, *Psychotria hawaiiensis*, or *Scaevola* spp.; and

(ii) Elevations between 615 and 1,082 m (2,017 and 3,551 ft).

FAMILY CAMPANULACEAE: *Cyanea shipmanii* (HAHA)

Hawaii 1—*Cyanea shipmanii*—a, Hawaii 30—*Cyanea shipmanii*—b, and Hawaii 30—*Cyanea shipmanii*—c, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Cyanea shipmanii* 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:

(i) Montane mesic forest dominated by *Acacia koa*—*Metrosideros polymorpha* and containing one or more of the following associated native plant species:

Cheirodendron trigynum, *Ilex anomala*, or *Myrsine lessertiana*; and

(ii) Elevations between 1,629 and 2,025 m (5,345 and 6,645 ft).

FAMILY CAMPANULACEAE: *Cyanea stictophylla* (HAHA)

Hawaii 15—*Cyanea stictophylla*—a, Hawaii 16—*Cyanea stictophylla*—b, Hawaii 24—*Cyanea stictophylla*—c, and Hawaii 30—*Cyanea stictophylla*—d, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Cyanea stictophylla* 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:

(i) *Acacia koa* or wet *Metrosideros polymorpha* forests, containing one or more of the following associated native plant species: *Cibotium* sp., *Melicope* spp., or *Ureera glabra*; and

(ii) Between elevations of 1,056 and 1,917 m (3,466 and 6,288 ft).

FAMILY CAMPANULACEAE: *Delissea undulata* (NCN)

Hawaii 10—*Delissea undulata*—a and Hawaii 10—*Delissea undulata*—b, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Delissea undulata* 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:

(i) Dry cinder cones and open *Metrosideros polymorpha* and *Sophora chrysophylla* forest, and containing one or more of the following associated native plant species: *Acacia koa*, *Diospyros sandwicensis*, *Dodonaea viscosa*, *Nothocestrum breviflorum*, *Psychotria* spp., *Santalum paniculatum*, or *Sophora chrysophylla*; and

(ii) Elevations between 893 to 1,734 m (2,928 to 5,690 ft).

FAMILY CARYOPHYLLACEAE: *Silene hawaiiensis* (NCN)

Hawaii 25—*Silene hawaiiensis*—a and Hawaii 27—*Silene hawaiiensis*—b, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Silene hawaiiensis*

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:

(i) Weathered lava or variously aged lava flows and cinder substrates in montane and subalpine dry shrubland containing one or more of the following associated native plant species: *Dodonaea viscosa*, *Leptecophylla tameiameia*, *Metrosideros polymorpha*, *Rumex giganteus*, *Sophora chrysophylla*, or *Vaccinium reticulatum*; and

(ii) Elevations between 1,022 and 2,413 m (3,352 and 7,915 ft).

FAMILY CONVULVULACEAE: ***Bonamia menziesii*** (NCN)

Hawaii 10—*Bonamia menziesii*—a, identified in the legal description in paragraph (k) of this section, constitutes critical habitat for *Bonamia menziesii* on Hawaii. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Dry forest, containing one or more of the following associated native plant species: *Argemone glauca*, *Canavalia hawaiiensis*, *Chenopodium oahuense*, *Diospyros sandwicensis*, *Dodonaea viscosa*, *Erythrina sandwicensis*, *Metrosideros polymorpha*, *Myrsine lanaiensis*, *Nototrichium sandwicense*, *Osteomeles anthyllidifolia*, *Peperomia blanda* var. *floribunda*, *Pouteria sandwicensis*, *Psilotum nudum*, *Santalum paniculatum*, *Sapindus saponaria*, *Senna gaudichaudii*, *Sida fallax*, *Sophora chrysophylla*, or *Xylosma hawaiiense*; and

(ii) Elevations between 492 and 697 m (1,614 and 2,285 ft).

FAMILY CUCURBITACEAE: ***Sicyos alba*** (ANUNU)

Hawaii 30—*Sicyos alba*—a, identified in the legal description in paragraph (k) of this section, constitutes critical habitat for *Sicyos alba* on Hawaii. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) *Metrosideros polymorpha*-*Cibotium glaucum* dominated montane wet forests, containing one or more of the fol-

lowing associated native plant species: *Astelia menziesiana*, *Athyrium microphyllum* and other ferns, *Broussaisia arguta*, *Cheirodendron trigynum*, *Coprosma* sp., *Cyanea tritomantha*, *Cyrtandra lysiosepala*, *Perrottetia sandwicensis*, *Platydesma spathulata*, *Pritchardia beccariana*, *Psychotria* sp., or *Stenogyne* sp.; and

(ii) Elevations between 966 and 1,546 m (3,170 and 5,072 ft).

Family Campanulaceae: ***Cyanea tritomantha*** (AKU)

Hawaii 3—*Cyanea tritomantha*-a, Hawaii 8—*Cyanea tritomantha*-b, Hawaii 9—*Cyanea tritomantha*-c, Hawaii 24—*Cyanea tritomantha*-d-Section 8, Hawaii 29—*Cyanea tritomantha*-e, Hawaii 30—*Cyanea tritomantha*-f, Hawaii 42—*Cyanea tritomantha*-g, Hawaii 44—*Cyanea tritomantha*-h, Hawaii 51—*Cyanea tritomantha*-i, Hawaii 52—*Cyanea tritomantha*-j, and Hawaii 54—*Cyanea tritomantha*-k, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Cyanea tritomantha* on Hawaii Island.

(i) In units Hawaii 3—*Cyanea tritomantha*-a, Hawaii 24—*Cyanea tritomantha*-d-Section 8, Hawaii 29—*Cyanea tritomantha*-e, Hawaii 30—*Cyanea tritomantha*-f, Hawaii 42—*Cyanea tritomantha*-g, Hawaii 44—*Cyanea tritomantha*-h, Hawaii 51—*Cyanea tritomantha*-i, and Hawaii 52—*Cyanea tritomantha*-j, the physical and biological features of critical habitat in wet forest ecosystem are:

(A) Elevation: Less than 7,218 ft (2,200 m).

(B) Annual precipitation: Greater than 98 in (250 cm).

(C) Substrate: Very weathered soils to rocky substrate, basaltic lava, undeveloped soils, developed soils.

(D) Canopy contains one or more of the following native plant genera: *Acacia*, *Antidesma*, *Cheirodendron*, *Ilex*, *Melicope*, *Metrosideros*, *Myrsine*, *Pittosporum*, *Psychotria*.

(E) Subcanopy contains one or more of the following native plant genera: *Cibotium*, *Clermontia*, *Coprosma*, *Cyanea*, *Freycinetia*, *Hydrangea*, *Vaccinium*.

(F) Understory contains one or more of the following native plant genera: *Adenophorus*, *Cibotium*, *Cyrtandra*,

Dicranopteris, *Huperzia*, *Peperomia*, *Stenogyne*.

(ii) In units Hawaii 8—*Cyanea tritomantha*-b, Hawaii 9—*Cyanea tritomantha*-c, and Hawaii 54—*Cyanea tritomantha*-k, the physical and biological features of critical habitat in wet forest ecosystem are those provided above in paragraphs (i)(A) through (F) of this entry, and in wet grassland and shrubland ecosystem are:

(A) Elevation: 656 to 2,953 ft (200 to 900 m).

(B) Annual precipitation: 98 to 197 in (250 to 500 cm).

(C) Substrate: Older, weathered soils to younger, rocky substrates.

(D) Canopy contains one or more of the following native plant genera: *Ilex*, *Kadua*, *Melicope*, *Metrosideros*, *Myrsine*.

(E) Subcanopy contains one or more of the following native plant genera: *Cibotium*, *Clermontia*, *Dubautia*, *Freycinetia*, *Hydrangea*, *Lobelia*, *Pipturus*, *Touchardia*, *Urera*, *Vaccinium*.

(F) Understory contains one or more of the following native plant genera: *Carex*, *Cladium*, *Deschampsia*, *Dicranopteris*, *Eragrostis*, *Peperomia*, *Phyllostegia*, *Scaevola*.

Family Caryophyllaceae: *Schiedea diffusa* ssp. *macraei* (no common name)

Hawaii 3—*Schiedea diffusa* ssp. *macraei*-a, Hawaii 8—*Schiedea diffusa* ssp. *macraei*-b, Hawaii 9—*Schiedea diffusa* ssp. *macraei*-c, Hawaii 15—*Schiedea diffusa* ssp. *macraei*-d-Section 4, Hawaii 15—*Schiedea diffusa* ssp. *macraei*-e-Section 5, Hawaii 16—*Schiedea diffusa* ssp. *macraei*-f, Hawaii 24—*Schiedea diffusa* ssp. *macraei*-g-Section 8, Hawaii 24—*Schiedea diffusa* ssp. *macraei*-h-Section 9, Hawaii 29—*Schiedea diffusa* ssp. *macraei*-i, Hawaii 30—*Schiedea diffusa* ssp. *macraei*-j, Hawaii 37—*Schiedea diffusa* ssp. *macraei*-k, Hawaii 38—*Schiedea diffusa* ssp. *macraei*-l, Hawaii 39—*Schiedea diffusa* ssp. *macraei*-m, Hawaii 40—*Schiedea diffusa* ssp. *macraei*-n, Hawaii 41—*Schiedea diffusa* ssp. *macraei*-o, Hawaii 42—*Schiedea diffusa* ssp. *macraei*-p, Hawaii 43—*Schiedea diffusa* ssp. *macraei*-q, Hawaii 44—*Schiedea diffusa* ssp. *macraei*-r, Hawaii 51—*Schiedea diffusa* ssp. *macraei*-s, Hawaii 52—*Schiedea diffusa* ssp. *macraei*-t, Hawaii 54—*Schiedea diffusa* ssp. *macraei*-u, and Ha-

waii 56—*Schiedea diffusa* ssp. *macraei*-v, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Schiedea diffusa* ssp. *macraei* on Hawaii Island. In units Hawaii 3—*Schiedea diffusa* ssp. *macraei*-a, Hawaii 8—*Schiedea diffusa* ssp. *macraei*-b, Hawaii 9—*Schiedea diffusa* ssp. *macraei*-c, Hawaii 15—*Schiedea diffusa* ssp. *macraei*-d-Section 4, Hawaii 15—*Schiedea diffusa* ssp. *macraei*-e-Section 5, Hawaii 16—*Schiedea diffusa* ssp. *macraei*-f, Hawaii 24—*Schiedea diffusa* ssp. *macraei*-g-Section 8, Hawaii 24—*Schiedea diffusa* ssp. *macraei*-h-Section 9, Hawaii 29—*Schiedea diffusa* ssp. *macraei*-i, Hawaii 30—*Schiedea diffusa* ssp. *macraei*-j, Hawaii 37—*Schiedea diffusa* ssp. *macraei*-k, Hawaii 38—*Schiedea diffusa* ssp. *macraei*-l, Hawaii 39—*Schiedea diffusa* ssp. *macraei*-m, Hawaii 40—*Schiedea diffusa* ssp. *macraei*-n, Hawaii 41—*Schiedea diffusa* ssp. *macraei*-o, Hawaii 42—*Schiedea diffusa* ssp. *macraei*-p, Hawaii 43—*Schiedea diffusa* ssp. *macraei*-q, Hawaii 44—*Schiedea diffusa* ssp. *macraei*-r, Hawaii 51—*Schiedea diffusa* ssp. *macraei*-s, Hawaii 52—*Schiedea diffusa* ssp. *macraei*-t, Hawaii 54—*Schiedea diffusa* ssp. *macraei*-u, and Hawaii 56—*Schiedea diffusa* ssp. *macraei*-v, the physical and biological features of critical habitat in wet forest ecosystem are:

(i) Elevation: Less than 7,218 ft (2,200 m).

(ii) Annual precipitation: Greater than 98 in (250 cm).

(iii) Substrate: Very weathered soils to rocky substrate, basaltic lava, undeveloped soils, developed soils.

(iv) Canopy contains one or more of the following native plant genera: *Aca-cia*, *Antidesma*, *Cheirodendron*, *Ilex*, *Melicope*, *Metrosideros*, *Myrsine*, *Pittosporum*, *Psychotria*.

(v) Subcanopy contains one or more of the following native plant genera: *Cibotium*, *Clermontia*, *Coprosma*, *Cyanea*, *Freycinetia*, *Hydrangea*, *Vaccinium*.

(vi) Understory contains one or more of the following native plant genera: *Adenophorus*, *Cibotium*, *Cyrtandra*, *Dicranopteris*, *Huperzia*, *Peperomia*, *Stenogyne*.

Family Caryophyllaceae: *Schiedea hawaiiensis* (MAOLIOLI)

Hawaii 55—*Schiedea hawaiiensis*-a, identified in the legal descriptions in paragraph (k) of this section, constitutes critical habitat for *Schiedea hawaiiensis* on Hawaii Island. In unit Hawaii 55—*Schiedea hawaiiensis*-a, the physical and biological features of critical habitat in dry forest ecosystem are:

(i) Elevation: Less than 9,500 ft (2,900 m).

(ii) Annual precipitation: Less than 79 in (200 cm).

(iii) Substrate: Well-drained, sandy loams or loams from volcanic ash or cinder; weathered basaltic lava.

(iv) Canopy contains one or more of the following native plant genera: *Acacia*, *Colubrina*, *Diospyros*, *Erythrina*, *Melicope*, *Metrosideros*, *Myoporum*, *Myrsine*, *Sophora*.

(v) Subcanopy contains one or more of the following native plant genera: *Achyranthes*, *Euphorbia*, *Leptecophylla*, *Nototrichium*.

(vi) Understory contains one or more of the following native plant genera: *Dodonaea*, *Doryopteris*, *Heteropogon*, *Pellaea*.

FAMILY CYPERACEAE: *Cyperaceae fauriei* (NCN)

Hawaii 19—*Cyperus fauriei*-a, identified in the legal description in paragraph (k) of this section, constitutes critical habitat for *Mariscus fauriei* on Hawaii. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) *Diospyros sandwicensis*-*Metrosideros polymorpha*-*Sapindus saponaria* dominated lowland dry forests, often on a lava substrate, and containing one or more of the following associated native plant species: *Myoporum sandwicense*, *Osteomeles anthyllidifolia*, *Peperomia blanda* var. *floribunda*, *Psydrax odorata*, *Rauwolfia sandwicensis*, or *Sophora chrysophylla*; and

(ii) Elevations between 278 and 342 m (913 and 1,123 ft).

FAMILY EUPHORBIACEAE: *Flueggea neowawraea* (MEHAMEHAME)

Hawaii 17—*Flueggea neowawraea*-a and Hawaii 18—*Flueggea neowawraea*-b, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Flueggea neowawraea* 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:

(i) Mesic *Metrosideros polymorpha* forest, containing one or more of the following associated native plant species: *Antidesma platyphyllum*, *Antidesma pulvinatum*, *Diospyros sandwicensis*, *Nephrolepis* spp., *Nestegis sandwicensis*, *Pipturus albidus*, *Pisonia* spp., *Pittosporum hosmeri*, *Psychotria hawaiiensis*, or *Psydrax odorata*; and

(ii) Elevations between 499 and 818 m (1,637 and 2,684 ft).

FAMILY FABACEAE: *Mezoneuron kavaense* (UHIUHI)

Hawaii 10—*Mezoneuron kavaense*-a, Hawaii 31—*Mezoneuron kavaense*-b, Hawaii 33—*Mezoneuron kavaense*-d, and Hawaii 34—*Mezoneuron kavaense*-e, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Mezoneuron kavaense* on Hawaii Island. In units Hawaii 10—*Mezoneuron kavaense*-a, Hawaii 31—*Mezoneuron kavaense*-b, Hawaii 33—*Mezoneuron kavaense*-d, and Hawaii 34—*Mezoneuron kavaense*-e, the physical and biological features of critical habitat are:

(i) Elevation: Less than 3,300 ft (1,000 m).

(ii) Annual precipitation: Less than 50 in (130 cm).

(iii) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava.

(iv) Canopy: *Diospyros*, *Erythrina*, *Metrosideros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.

(v) Subcanopy: *Chamaesyce*, *Dodonaea*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.

(vi) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Capparis*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Sicyos*.

FAMILY FABACEAE: *Sesbania tomentosa*
(OHAI)

Hawaii 20—*Sesbania tomentosa*—a and Hawaii 23—*Sesbania tomentosa*—b, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Sesbania tomentosa* 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:

(i) Open, dry *Metrosideros polymorpha* forest with mixed native grasses, *Scaevola taccada* coastal dry shrubland on windswept slopes, and weathered basaltic slopes, and containing one or more of the following associated native plant species: *Dodonaea viscosa*, *Fimbristylis hawaiiensis*, *Ipomoea pes-caprae*, *Jacquemontia ovalifolia* ssp. *sandwicensis*, *Leptecophylla tameiameia*, *Melanthera integrifolia*, *Myoporum sandwicense*, *Sida fallax*, *Sporobolus virginicus*, or *Waltheria indica*; and

(ii) Elevations between sea level and 922 m (0 and 3,025 ft).

FAMILY FABACEAE: *Vigna o-wahuensis*
(NCN)

Hawaii 4—*Vigna o-wahuensis*—a, Hawaii 4—*Vigna o-wahuensis*—b, and Hawaii 4—*Vigna o-wahuensis*—c, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Vigna o-wahuensis* 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:

(i) *Dodonaea viscosa* lowland dry shrubland, containing one or more of the following associated native plant species: *Chenopodium oahuense*, *Dodonaea viscosa*, *Osteomeles anthyllidifolia*, *Sida fallax*, or *Wikstroemia* sp.; and

(ii) Elevations between 717 and 993 m (2,352 and 3,259 ft).

FAMILY GESNERIACEAE: *Cyrtandra giffardii* (HAIWALE)

Hawaii 3—*Cyrtandra giffardii*—a, Hawaii 29—*Cyrtandra giffardii*—b, and Hawaii 30—*Cyrtandra giffardii*—c, identified in the legal descriptions in paragraph (k) of this section, constitute

critical habitat for *Cyrtandra giffardii* 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:

(i) Wet montane forest dominated by *Cibotium* sp. or *Metrosideros polymorpha*, and *Metrosideros polymorpha*-*Acacia koa* lowland wet forests, and containing one or more of the following associated native plant species: *Astelia menziesiana*, *Diplazium sandwichianum*, *Hedyotis terminalis*, *Perrottetia sandwicensis*, or other species of *Cyrtandra*; and

(ii) Between elevations of 654 and 1,440 m (2,146 and 4,723 ft).

FAMILY GESNERIACEAE: *Cyrtandra tintinnabula* (HAIWALE)

Hawaii 3—*Cyrtandra tintinnabula*—a and Hawaii 29—*Cyrtandra tintinnabula*—b, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Cyrtandra tintinnabula* 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:

(i) Lowland wet forest dominated by dense *Acacia koa*, *Metrosideros polymorpha*, and *Cibotium* spp. and containing one or more of the following associated native plant species: *Cyrtandra* spp. or *Hedyotis* spp.; and

(ii) Between elevations 641 and 1,391 m (2,102 and 4,565 ft).

FAMILY LAMIACEAE: *Phyllostegia racemosa* (KIPONAPONA)

Hawaii 1—*Phyllostegia racemosa*—a, Hawaii 2—*Phyllostegia racemosa*—b, and Hawaii 30—*Phyllostegia racemosa*—c, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Phyllostegia racemosa* 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:

(i) Tree trunks in *Acacia koa*, *Metrosideros polymorpha*, and *Cibotium* sp. dominated montane mesic or wet forests and containing one or more of the following associated native plant species: *Dryopteris wallichiana*, *Rubus*

hawaiiensis, or *Vaccinium calycinum*; and

(ii) Elevations between 1,371 and 1,935 m (4,498 and 6,349 ft).

FAMILY LAMIACEAE: *Phyllostegia velutina* (NCN)

Hawaii 24—*Phyllostegia velutina*—a and Hawaii 30—*Phyllostegia velutina*—b, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Phyllostegia velutina* 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:

(i) *Metrosideros polymorpha*-*Acacia koa* dominated montane mesic and wet forests containing one or more of the following native plant species: *Athyrium microphyllum* and other native wet forest terrestrial ferns, *Cheirodendron trigynum*, *Cibotium* spp., *Coprosma* sp., *Dryopteris wallichiana*, *Ilex anomala*, *Myrsine lessertiana*, *Pipturus albidus*, *Rubus hawaiiensis*, or *Vaccinium calycinum*; and

(ii) Elevations between 966 and 1,881 m (3,168 and 6,170 ft).

FAMILY LAMIACEAE: *Phyllostegia warshaueri* (NCN)

Hawaii 3—*Phyllostegia warshaueri*—a and Hawaii 8—*Phyllostegia warshaueri*—b, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Phyllostegia warshaueri* 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:

(i) *Metrosideros polymorpha* and *Cibotium* montane and lowland wet forest, in which *Acacia koa* or *Cheirodendron trigynum* may co-dominate, and containing one or more of the following associated native plant species: *Antidesma platyphyllum*, *Athyrium sanduicensis*, *Broussaisia arguta*, *Clermontia parviflora*, *Coprosma* sp., *Cyanea pilosa*, *Cyanea* spp., *Hedyotis* sp., *Machaerina angustifolia*, *Pipturus albidus*, *Psychotria hawaiiensis*, or *Sadleria pallida*; and

(ii) Elevations between 681 and 1,411 m (2,234 and 4,629 ft).

Family Gesneriaceae: *Cyrtandra nanawaleensis* (HAIWALE)

Hawaii 28—*Cyrtandra nanawaleensis*-a, Hawaii 46—*Cyrtandra nanawaleensis*-b, Hawaii 47—*Cyrtandra nanawaleensis*-c, Hawaii 48—*Cyrtandra nanawaleensis*-d, Hawaii 49—*Cyrtandra nanawaleensis*-e, and Hawaii 50—*Cyrtandra nanawaleensis*-f, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Cyrtandra nanawaleensis* on Hawaii Island.

(i) In units Hawaii 28—*Cyrtandra nanawaleensis*-a, Hawaii 46—*Cyrtandra nanawaleensis*-b, Hawaii 47—*Cyrtandra nanawaleensis*-c, and Hawaii 48—*Cyrtandra nanawaleensis*-d, the physical and biological features of critical habitat in wet forest ecosystem are:

(A) Elevation: Less than 7,218 ft (2,200 m).

(B) Annual precipitation: Greater than 98 in (250 cm).

(C) Substrate: Very weathered soils to rocky substrate, basaltic lava, undeveloped soils, developed soils.

(D) Canopy contains one or more of the following native plant genera: *Acacia*, *Antidesma*, *Cheirodendron*, *Ilex*, *Melicope*, *Metrosideros*, *Myrsine*, *Pittosporum*, *Psychotria*.

(E) Subcanopy contains one or more of the following native plant genera: *Cibotium*, *Clermontia*, *Coprosma*, *Cyanea*, *Freycinetia*, *Hydrangea*, *Vaccinium*.

(F) Understory contains one or more of the following native plant genera: *Adenophorus*, *Cibotium*, *Cyrtandra*, *Dicranopteris*, *Huperzia*, *Peperomia*, *Stenogyne*.

(ii) In units Hawaii 49—*Cyrtandra nanawaleensis*-e and Hawaii 50—*Cyrtandra nanawaleensis*-f, the physical and biological features of critical habitat in wet forest ecosystem are those provided above in paragraphs (i)(A) through (F) of this entry, and in the mesic forest ecosystem and mesic grassland and shrubland ecosystem are:

(A) Elevation: Less than 6,562 ft (2,000 m) in mesic forest ecosystem, and 98 to 7,546ft (30 to 2,300 m) in mesic grassland and shrubland ecosystem.

(B) Annual precipitation: 39 to 150 in (100 to 380 cm) in mesic forest ecosystem, and 39 to 98 in (100 to 250 cm) in mesic grassland and shrubland ecosystem.

(C) Substrate: Rocky, shallow, organic muck soils; rocky talus soils; shallow soils over weathered rock; deep soils over soft weathered rock; and gravelly alluvium in mesic forest ecosystem; and shallow soils that frequently dry with rocky outcrops in mesic grassland and shrubland ecosystem.

(D) Canopy contains one or more of the following native plant genera: *Acacia*, *Antidesma*, *Charpentiera*, *Chrysodracon*, *Metrosideros*, *Myrsine*, *Nestegis*, *Pisonia*, *Santalum* in mesic forest ecosystem; and *Coprosma*, *Metrosideros*, *Wilkesia* in mesic grassland and shrubland ecosystem.

(E) Subcanopy contains one or more of the following native plant genera: *Coprosma*, *Freycinetia*, *Leptecophylla*, *Myoporum*, *Pipturus*, *Rubus*, *Sadleria*, *Sophora* in mesic forest ecosystem; and *Dodonaea*, *Dubautia*, *Leptecophylla*, *Osteomeles*, *Sadleria*, *Vaccinium* in mesic grassland and shrubland ecosystem.

(F) Understory contains one or more of the following native plant genera: *Ctenitis*, *Doodia*, *Dryopteris*, *Pelea*, *Sadleria* in mesic forest ecosystem; and *Bidens*, *Carex*, *Deschampsia*, *Dicranopteris*, *Dryopteris*, *Eragrostis*, *Euphorbia*, *Lipochaeta* in mesic grassland and shrubland ecosystem.

Family Gesneriaceae: *Cyrtandra wagneri* (HAIWALE)

Hawaii 3—*Cyrtandra wagneri*-a and Hawaii 52—*Cyrtandra wagneri*-b, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Cyrtandra wagneri* on Hawaii Island. In units Hawaii 3—*Cyrtandra wagneri*-a and Hawaii 52—*Cyrtandra wagneri*-b, the physical and biological features of critical habitat in wet forest ecosystem are:

(i) Elevation: Less than 7,218 ft (2,200 m).

(ii) Annual precipitation: Greater than 98 in (250 cm).

(iii) Substrate: Very weathered soils to rocky substrate, basaltic lava, undeveloped soils, developed soils.

(iv) Canopy contains one or more of the following native plant genera: *Acacia*, *Antidesma*, *Cheirodendron*, *Ilex*, *Melicope*, *Metrosideros*, *Myrsine*, *Pittosporum*, *Psychotria*.

(v) Subcanopy contains one or more of the following native plant genera: *Cibotium*, *Clermontia*, *Coprosma*, *Cyanea*, *Freycinetia*, *Hydrangea*, *Vaccinium*.

(vi) Understory contains one or more of the following native plant genera: *Adenophorus*, *Cibotium*, *Cyrtandra*, *Dicranopteris*, *Huperzia*, *Peperomia*, *Stenogyne*.

Family Lamiaceae: *Phyllostegia floribunda* (no common name)

Hawaii 3—*Phyllostegia floribunda*-a, Hawaii 8—*Phyllostegia floribunda*-b, Hawaii 9—*Phyllostegia floribunda*-c, Hawaii 15—*Phyllostegia floribunda*-d-Section 4, Hawaii 15—*Phyllostegia floribunda*-e-Section 5, Hawaii 16—*Phyllostegia floribunda*-f, Hawaii 23—*Phyllostegia floribunda*-g, Hawaii 28—*Phyllostegia floribunda*-h, Hawaii 29—*Phyllostegia floribunda*-i, Hawaii 30—*Phyllostegia floribunda*-j, Hawaii 37—*Phyllostegia floribunda*-k, Hawaii 38—*Phyllostegia floribunda*-l, Hawaii 39—*Phyllostegia floribunda*-m, Hawaii 40—*Phyllostegia floribunda*-n, Hawaii 41—*Phyllostegia floribunda*-o, Hawaii 42—*Phyllostegia floribunda*-p, Hawaii 45—*Phyllostegia floribunda*-q, Hawaii 46—*Phyllostegia floribunda*-r, Hawaii 51—*Phyllostegia floribunda*-s, Hawaii 52—*Phyllostegia floribunda*-t, and Hawaii 54—*Phyllostegia floribunda*-u, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Phyllostegia floribunda* on Hawaii Island.

(i) In units Hawaii 3—*Phyllostegia floribunda*-a, Hawaii 15—*Phyllostegia floribunda*-d-Section 4, Hawaii 15—*Phyllostegia floribunda*-e-Section 5, Hawaii 16—*Phyllostegia floribunda*-f, Hawaii 29—*Phyllostegia floribunda*-i, Hawaii 30—*Phyllostegia floribunda*-j, Hawaii 37—*Phyllostegia floribunda*-k, Hawaii 38—*Phyllostegia floribunda*-l, Hawaii 39—*Phyllostegia floribunda*-m, Hawaii 40—*Phyllostegia floribunda*-n, Hawaii 41—*Phyllostegia floribunda*-o, Hawaii 51—*Phyllostegia floribunda*-s, and Hawaii 52—*Phyllostegia floribunda*-t, the physical and biological features of critical habitat in wet forest ecosystem are:

(A) Elevation: Less than 7,218 ft (2,200 m).

(B) Annual precipitation: Greater than 98 in (250 cm).

(C) Substrate: Very weathered soils to rocky substrate, basaltic lava, undeveloped soils, developed soils.

(D) Canopy contains one or more of the following native plant genera: *Acacia*, *Antidesma*, *Cheirodendron*, *Ilex*, *Melicope*, *Metrosideros*, *Myrsine*, *Pittosporum*, *Psychotria*.

(E) Subcanopy contains one or more of the following native plant genera: *Cibotium*, *Clermontia*, *Coprosma*, *Cyanea*, *Freycinetia*, *Hydrangea*, *Vaccinium*.

(F) Understory contains one or more of the following native plant genera: *Adenophorus*, *Cibotium*, *Cyrtandra*, *Dicranopteris*, *Huperzia*, *Peperomia*, *Stenogyne*.

(ii) In units Hawaii 8—*Phyllostegia floribunda*-b, Hawaii 9—*Phyllostegia floribunda*-c, Hawaii 23—*Phyllostegia floribunda*-g, Hawaii 28—*Phyllostegia floribunda*-h, Hawaii 45—*Phyllostegia floribunda*-q, Hawaii 46—*Phyllostegia floribunda*-r, and Hawaii 54—*Phyllostegia floribunda*-u, the physical and biological features of critical habitat in wet forest ecosystem are those provided above in paragraphs (i)(A) through (F) of this entry, and in wet grassland and shrubland ecosystem are:

(A) Elevation: 656 to 2,953 ft (200 to 900 m).

(B) Annual precipitation: 98 to 197 in (250 to 500 cm).

(C) Substrate: Older, weathered soils to younger, rocky substrates.

(D) Canopy contains one or more of the following native plant genera: *Ilex*, *Kadua*, *Melicope*, *Metrosideros*, *Myrsine*.

(E) Subcanopy contains one or more of the following native plant genera: *Cibotium*, *Clermontia*, *Dubautia*, *Freycinetia*, *Hydrangea*, *Lobelia*, *Pipturus*, *Touchardia*, *Urera*, *Vaccinium*.

(F) Understory contains one or more of the following native plant genera: *Carex*, *Cladium*, *Deschampsia*, *Dicranopteris*, *Eragrostis*, *Peperomia*, *Phyllostegia*, *Scaevola*.

(iii) In unit Hawaii 42—*Phyllostegia floribunda*-p, the physical and biological features of critical habitat in wet forest ecosystem are those provided above in paragraphs (i)(A) through (F) of this entry, and in mesic forest ecosystem are:

(A) Elevation of less than 6,562 ft (2,000 m).

(B) Annual precipitation of 39 to 150 in (100 to 380 cm).

(C) Substrate of rocky, shallow, organic muck soils; rocky talus soils; shallow soils over weathered rock; deep soils over soft weathered rock; or gravely alluvium.

(D) Canopy contains one or more of the following native plant genera: *Acacia*, *Antidesma*, *Charpentiera*, *Chrysodracon*, *Metrosideros*, *Myrsine*, *Nestegis*, *Pisonia*, *Santalum*.

(E) Subcanopy contains one or more of the following native plant genera: *Coprosma*, *Freycinetia*, *Leptecophylla*, *Myoporum*, *Pipturus*, *Rubus*, *Sadleria*, *Sophora*.

(F) Understory contains one or more of the following native plant genera: *Ctenitis*, *Doodia*, *Dryopteris*, *Pelea*, *Sadleria*.

Family Lamiaceae: *Stenogyne cranwelliae* (no common name)

Hawaii 3—*Stenogyne cranwelliae*-a, Hawaii 8—*Stenogyne cranwelliae*-b, Hawaii 9—*Stenogyne cranwelliae*-c, Hawaii 15—*Stenogyne cranwelliae*-d-Section 4, Hawaii 15—*Stenogyne cranwelliae*-e-Section 5, Hawaii 16—*Stenogyne cranwelliae*-f, Hawaii 24—*Stenogyne cranwelliae*-g-Section 8, Hawaii 24—*Stenogyne cranwelliae*-h-Section 9, Hawaii 29—*Stenogyne cranwelliae*-i, Hawaii 30—*Stenogyne cranwelliae*-j, Hawaii 37—*Stenogyne cranwelliae*-k, Hawaii 38—*Stenogyne cranwelliae*-l, Hawaii 39—*Stenogyne cranwelliae*-m, Hawaii 40—*Stenogyne cranwelliae*-n, Hawaii 41—*Stenogyne cranwelliae*-o, Hawaii 42—*Stenogyne cranwelliae*-p, Hawaii 43—*Stenogyne cranwelliae*-q, Hawaii 44—*Stenogyne cranwelliae*-r, Hawaii 51—*Stenogyne cranwelliae*-s, Hawaii 52—*Stenogyne cranwelliae*-t, and Hawaii 54—*Stenogyne cranwelliae*-u, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Stenogyne cranwelliae* on Hawaii Island. In units Hawaii 3—*Stenogyne cranwelliae*-a, Hawaii 8—*Stenogyne cranwelliae*-b, Hawaii 9—*Stenogyne cranwelliae*-c, Hawaii 15—*Stenogyne cranwelliae*-d-Section 4, Hawaii 15—*Stenogyne cranwelliae*-e-Section 5, Hawaii 16—*Stenogyne cranwelliae*-f, Hawaii 24—*Stenogyne cranwelliae*-g-Section 8, Hawaii 24—*Stenogyne cranwelliae*-h-Section 9, Hawaii 29—*Stenogyne*

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cranwelliae-i, Hawaii 30—*Stenogyne*
cranwelliae-j, Hawaii 37—*Stenogyne*
cranwelliae-k, Hawaii 38—*Stenogyne*
cranwelliae-l, Hawaii 39—*Stenogyne*
cranwelliae-m, Hawaii 40—*Stenogyne*
cranwelliae-n, Hawaii 41—*Stenogyne*
cranwelliae-o, Hawaii 42—*Stenogyne*
cranwelliae-p, Hawaii 43—*Stenogyne*
cranwelliae-q, Hawaii 44—*Stenogyne*
cranwelliae-r, Hawaii 51—*Stenogyne*
cranwelliae-s, Hawaii 52—*Stenogyne*
cranwelliae-t, and Hawaii 54—*Stenogyne*
cranwelliae-u, the physical and biological features of critical habitat in wet forest ecosystem are:

(i) Elevation: Less than 7,218 ft (2,200 m).

(ii) Annual precipitation: Greater than 98 in (250 cm).

(iii) Substrate: Very weathered soils to rocky substrate, basaltic lava, undeveloped soils, developed soils.

(iv) Canopy contains one or more of the following native plant genera: *Acacia*, *Antidesma*, *Cheirodendron*, *Ilex*, *Melicope*, *Metrosideros*, *Myrsine*, *Pittosporum*, *Psychotria*.

(v) Subcanopy contains one or more of the following native plant genera: *Cibotium*, *Clermontia*, *Coprosma*, *Cyanea*, *Freycinetia*, *Hydrangea*, *Vaccinium*.

(vi) Understory contains one or more of the following native plant genera: *Adenophorus*, *Cibotium*, *Cyrtandra*, *Dicranopteris*, *Huperzia*, *Peperomia*, *Stenogyne*.

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:

(i) Open aa lava in diverse lowland dry forests and *Metrosideros-Diospyros* lowland dry forest, and containing one or more of the following associated native plant species: *Bidens micrantha* ssp. *ctenophylla*, *Bobea timonioides*, *Caesalpinia kavaiensis*, *Cocculus trilobus*, *Colubrina oppositifolia*, *Diospyros*

sandwicensis, *Dodonaea viscosa*, *Erythrina sandwicensis*, *Kokia drynarioides*, *Metrosideros polymorpha*, *Myoporum sandwicense*, *Neraudia ovata*, *Nestegis sandwicensis*, *Nothoctrum breviflorum*, *Nototrichium sandwicense*, *Osteomeles anthyllidifolia*, *Psydrax odorata*, *Reynoldsia sandwicensis*, *Santalum paniculatum*, *Sida fallax*, or *Sophora chrysophylla*; and

(ii) Elevations between 86 and 892 m (281 and 2,925 ft).

FAMILY MALVACEAE: *Hibiscadelphus*
giffardianus (HAU KUAHIWI)

Hawaii 26—*Hibiscadelphus giffardianus*—a, identified in the legal description in paragraph (k) of this section, constitutes critical habitat for *Hibiscadelphus giffardianus* on Hawaii. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Mixed montane mesic forest containing one or more of the following native plant species: *Acacia koa*, *Coprosma rhynchocarpa*, *Dodonaea viscosa*, *Melicope* spp., *Metrosideros polymorpha*, *Myoporum sandwicense*, *Nestegis sandwicensis*, *Pipturus albidus*, *Psychotria* sp., or *Sapindus saponaria*; and

(ii) Elevations between 1,193 and 1,274 m (3,914 and 4,181 ft).

FAMILY MALVACEAE: *Hibiscadelphus*
hualalaiensis (HAU KUAHIWI)

Hawaii 10—*Hibiscadelphus hualalaiensis*—a, identified in the legal description in paragraph (k) of this section, constitutes critical habitat for *Hibiscadelphus hualalaiensis* on Hawaii. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Dry-mesic to dry *Metrosideros* forest on rocky substrate in deep soils and containing one or more of the following native plant species: *Acacia koa*, *Coprosma rhynchocarpa*, *Dodonaea viscosa*, *Melicope* spp., *Metrosideros polymorpha*, *Myoporum sandwicense*, *Nestegis sandwicensis*, *Pipturus albidus*, *Psychotria* sp., or *Sapindus saponaria*; and

(ii) Between elevations 512 and 1,223 m (1,679 and 4,012 ft).

FAMILY MALVACEAE: *Hibiscus brackenridgei* (MAO HAU HELE)

Hawaii 10—*Hibiscus brackenridgei*—a, identified in the legal description in paragraph (k) of this section, constitutes critical habitat for *Hibiscus brackenridgei* on Hawaii. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) *Acacia koa* lowland mesic forest containing one or more of the following native plants species: *Reynoldsia sandwicensis* or *Sida fallax*; and

(ii) Elevations between 649 and 847 (2,130 and 2,779 ft).

FAMILY PLANTAGINACEAE: *Plantago hawaiiensis* (LAUKAHI KUAHIWI)

Hawaii 24—*Plantago hawaiiensis*—a, Hawaii 25—*Plantago hawaiiensis*—b, and Hawaii 30—*Plantago hawaiiensis*—c, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Plantago hawaiiensis* 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:

(i) Montane wet sedge land (often in damp cracks of pahoehoe lava) with mixed sedges and grasses, montane mesic forest, dry subalpine woodland, or *Metrosideros polymorpha* and native shrub, and containing one or more of the following associated native plant species: *Acacia koa*, *Coprosma ernodeoides*, *Coprosma montana*, *Dodonaea viscosa*, *Leptecophylla tameiameiae*, *Metrosideros polymorpha*, or *Vaccinium reticulatum*; and

(ii) Elevations between 1,584 and 2,513 m (5,198 and 8,243 ft).

FAMILY POACEAE: *Ischaemum byrone* (HILO ISCHAEMUM)

Hawaii 21—*Ischaemum byrone*—a and Hawaii 22—*Ischaemum byrone*—b, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Ischaemum byrone* on Hawaii. Within these units, the currently known primary constituent ele-

ments of critical habitat include, but are not limited to, the habitat components provided by:

(i) Coastal wet to dry shrubland, near the ocean, rocks or pahoehoe lava in cracks and holes, and containing one or more of the following associated native plant species: *Fimbristylis cymosa*, or *Scaevola taccada*; and

(ii) Elevations between sea level and 28 m (0 and 91 ft).

FAMILY PORTULACACEAE: *Portulaca sclerocarpa* (POE)

Hawaii 27—*Portulaca sclerocarpa*—a, identified in the legal description in paragraph (k) of this section, constitutes critical habitat for *Portulaca sclerocarpa* on Hawaii. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Weathered Mauna Kea soils, cinder cones, or geologically young lavas, in montane dry shrubland, often on bare cinder, near steam vents, or in open *Metrosideros polymorpha* dominated woodlands, and containing one or more of the following associated native plant species: *Dodonaea viscosa*, *Melanthera venosa*, or *Sophora chrysophylla*; and

(ii) Elevations between 941 and 1,634 m (3,087 to 5,360 ft).

FAMILY RHAMNACEAE: *Colubrina oppositifolia* (KAULA)

Hawaii 10—*Colubrina oppositifolia*—a and Hawaii 18—*Colubrina oppositifolia*—b, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Colubrina oppositifolia* 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:

(i) Lowland dry and mesic forests dominated by *Diospyros sandwicensis* or *Metrosideros polymorpha* and containing one or more of the following associated native plant species: *Bobea timonioides*, *Erythrina sandwicensis*, *Leptecophylla tameiameiae*, *Nestegis sandwicensis*, *Nothocestrum breviflorum*, *Nototrichium sandwicense*, *Peperomia* sp., *Pleomele hawaiiensis*, *Psydrax odorata*, *Rauwolfia*

sandwicensis, *Reynoldsia sandwicensis*, or *Sophora chrysophylla*; and

(ii) Elevations between 177 and 927 m (580 and 3,042 ft).

FAMILY RHAMNACEAE: ***Gouania vitifolia***
(NCN)

Hawaii 18—*Gouania vitifolia*—a, identified in the legal description in paragraph (k) of this section, constitutes critical habitat for *Gouania vitifolia* on Hawaii. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Dry, rocky ridges and slopes in dry shrubland or dry to mesic *Nestegis-Metrosideros* forests on old substrate kipuka and containing one or more of the following associated native plant species: *Nephrolepis* spp., *Nestegis sandwicensis*, *Pipturus albidus*, *Wikstroemia phillyreifolia*, or *W. sandwicensis*; and

(ii) Elevations between 536 and 1,020 m (1,757 and 3,346 ft).

FAMILY RUBIACEAE: ***Melicope zahlbruckneri***
(ALANI)

Hawaii 24—*Melicope zahlbruckneri*—a and Hawaii 26—*Melicope zahlbruckneri*—b, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Melicope zahlbruckneri* 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:

(i) *Acacia koa-Metrosideros polymorpha* dominated montane mesic forest containing one or more of the following associated native plant species: *Coprosma rhynchocarpa*, *Melicope* spp., *Myoporum sandwicense*, *Nestegis sandwicensis*, *Pipturus albidus*, *Pisonia brunoniana*, *Psychotria hawaiiensis*, *Sapindus saponaria*, or *Zanthoxylum dipetalum*; and

(ii) Elevations between 1,060 and 1,336 m (3,476 and 4,383 ft).

FAMILY RUTACEAE: ***Zanthoxylum dipetalum*** VAR. ***tomentosum*** (AE)

Hawaii 10—*Zanthoxylum dipetalum* ssp. *tomentosum*—a, identified in the legal description in paragraph (k) of

this section, constitutes critical habitat for *Zanthoxylum dipetalum* var. *tomentosum* on Hawaii. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) *Metrosideros polymorpha* dominated montane mesic forest, often on aa lava, and containing one or more of the following associated native plant species: *Diospyros sandwicensis*, *Myrsine* sp., *Pouteria sandwicensis*, *Psychotria* sp., *Reynoldsia sandwicensis*, *Santalum paniculatum*, or *Sophora chrysophylla*; and

(ii) Elevations between 874 and 1,208 m (2,867 and 3,964 ft).

FAMILY SOLANACEAE: ***Nothocestrum breviflorum*** (AIEA)

Hawaii 5—*Nothocestrum breviflorum*—a, Hawaii 6—*Nothocestrum breviflorum*—b, and Hawaii 10—*Nothocestrum breviflorum*—c, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Nothocestrum breviflorum* 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:

(i) Lowland dry forest, montane dry forest, or montane mesic forest dominated by *Acacia koa*, *Diospyros sandwicensis*, or *Metrosideros polymorpha* on aa lava substrates, and containing one or more of the following associated native plant species: *Bidens micrantha* ssp. *ctenophylla*, *Caesalpinia kavaiensis*, *Colubrina oppositifolia*, *Delissea undulata*, *Dodonaea viscosa*, *Erythrina sandwicensis*, *Hibiscadelphus hualalaiensis*, *Kokia drynarioides*, *Myoporum sandwicense*, *Osteomeles anthyllidifolia*, *Psydrax odorata*, *Reynoldsia sandwicensis*, *Santalum ellipticum*, *Santalum paniculatum*, or *Sophora chrysophylla*; and

(ii) Elevations between 45 and 1,236 m (146 and 4,055 ft).

FAMILY SOLANACEAE: ***Solanum incompletum*** (POPOLO KU MAI)

Hawaii 10—*Solanum incompletum*—a and Hawaii 11—*Solanum incompletum*—b, identified in the legal descriptions in

paragraph (k) of this section, constitute critical habitat for *Solanum incompletum* 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:

- (i) Dry to mesic forest, diverse mesic forest, or subalpine forest, and containing one or more of the following associated native plant species: *Myoporum sandwicense*, *Myrsine lanaiensis*, or *Sophora chrysophylla*; and
- (ii) Elevations between 1,185 and 2,169 m (3,887 and 7,115 ft).

FAMILY URTICACEAE: *Neraudia ovata*
(NCN)

Hawaii 10—*Neraudia ovata*—a and Hawaii 18—*Neraudia ovata*—d, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Neraudia ovata* 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:

- (i) Open *Metrosideros polymorpha*-*Sophora chrysophylla* dominated lowlands, montane dry forests, or *Metrosideros*-shrub woodland, and containing one or more of the following associated native plant species: *Bidens micrantha* ssp. *ctenophylla*, *Capparis sandwichiana*, *Coccolus orbiculatus*, *Fimbristylis hawaiiensis*, *Myoporum sandwicense*, *Myrsine lanaiensis*, *Myrsine lessertiana*, *Nothoestrum breviflorum*, *Pleomele hawaiiensis*, or *Reynoldsia sandwicensis*; and
- (ii) Elevations between 28 and 1,526 m (93 to 5,005 ft).

FAMILY VIOLACEAE: *Isodendron hosakae* (AUPAKA)

Hawaii 4—*Isodendron hosakae*—a, Hawaii 4—*Isodendron hosakae*—b, Hawaii 4—*Isodendron hosakae*—c, Hawaii 4—*Isodendron hosakae*—d, Hawaii 4—*Isodendron hosakae*—e, and Hawaii 4—*Isodendron hosakae*—f, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Isodendron hosakae* 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:

- (i) Cinder cones with montane dry shrubland and containing one or more of the following associated native plant species: *Bidens menziesii*, *Dodonaea viscosa*, *Dubautia linearis*, *Leptecophylla tameiameiae*, *Melanthera venosa*, *Osteomeles anthyllidifolia*, *Santalum ellipticum*, *Sophora chrysophylla*, or *Wikstroemia pulcherrima*; and
- (ii) Elevations between 717 and 1,242 m (2,352 and 4,074 ft).

FAMILY VIOLACEAE: *Isodendron pyrifolium* (WAHINE NOHO KULA)

Hawaii 10—*Isodendron pyrifolium*—a, Hawaii 31—*Isodendron pyrifolium*—b, Hawaii 33—*Isodendron pyrifolium*—d, Hawaii 34—*Isodendron pyrifolium*—e, and Hawaii 36—*Isodendron pyrifolium*—g, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Isodendron pyrifolium* on Hawaii Island. In units Hawaii 10—*Isodendron pyrifolium*—a, Hawaii 31—*Isodendron pyrifolium*—b, Hawaii 33—*Isodendron pyrifolium*—d, Hawaii 34—*Isodendron pyrifolium*—e, and Hawaii 36—*Isodendron pyrifolium*—g, the physical and biological features of critical habitat are:

- (i) Elevation: Less than 3,300 ft (1,000 m).
- (ii) Annual precipitation: Less than 50 in (130 cm).
- (iii) Substrate: Weathered silty loams to stony clay, rocky ledges, little-weathered lava.
- (iv) Canopy: *Diospyros*, *Erythrina*, *Metrosideros*, *Myoporum*, *Pleomele*, *Santalum*, *Sapindus*.
- (v) Subcanopy: *Chamaesyce*, *Dodonaea*, *Osteomeles*, *Psydrax*, *Scaevola*, *Wikstroemia*.
- (vi) Understory: *Alyxia*, *Artemisia*, *Bidens*, *Capparis*, *Chenopodium*, *Nephrolepis*, *Peperomia*, *Sicyos*.

Family Pittosporaceae: *Pittosporum hawaiiense* (HOAWA, HAAWA)

Hawaii 3—*Pittosporum hawaiiense*—a, Hawaii 8—*Pittosporum hawaiiense*—b, Hawaii 9—*Pittosporum hawaiiense*—c, Hawaii 15—*Pittosporum hawaiiense*—d-Section 4, Hawaii 15—*Pittosporum hawaiiense*—e-Section 5, Hawaii 16—*Pittosporum hawaiiense*—f, Hawaii 23—*Pittosporum hawaiiense*—g, Hawaii 24—

Pittosporum hawaiiense-h-Section 8, Hawaii 24—*Pittosporum hawaiiense*-i-Section 9, Hawaii 29—*Pittosporum hawaiiense*-j, Hawaii 30—*Pittosporum hawaiiense*-k, Hawaii 37—*Pittosporum hawaiiense*-l, Hawaii 38—*Pittosporum hawaiiense*-m, Hawaii 39—*Pittosporum hawaiiense*-n, Hawaii 40—*Pittosporum hawaiiense*-o, Hawaii 41—*Pittosporum hawaiiense*-p, Hawaii 42—*Pittosporum hawaiiense*-q, Hawaii 43—*Pittosporum hawaiiense*-r, Hawaii 44—*Pittosporum hawaiiense*-s, Hawaii 45—*Pittosporum hawaiiense*-t, Hawaii 51—*Pittosporum hawaiiense*-u, Hawaii 52—*Pittosporum hawaiiense*-v, and Hawaii 54—*Pittosporum hawaiiense*-w, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Pittosporum hawaiiense* on Hawaii Island.

(i) In units Hawaii 3—*Pittosporum hawaiiense*-a, Hawaii 8—*Pittosporum hawaiiense*-b, Hawaii 9—*Pittosporum hawaiiense*-c, Hawaii 15—*Pittosporum hawaiiense*-d-Section 4, Hawaii 15—*Pittosporum hawaiiense*-e-Section 5, Hawaii 16—*Pittosporum hawaiiense*-f, Hawaii 23—*Pittosporum hawaiiense*-g, Hawaii 29—*Pittosporum hawaiiense*-j, Hawaii 30—*Pittosporum hawaiiense*-k, Hawaii 37—*Pittosporum hawaiiense*-l, Hawaii 38—*Pittosporum hawaiiense*-m, Hawaii 39—*Pittosporum hawaiiense*-n, Hawaii 40—*Pittosporum hawaiiense*-o, Hawaii 41—*Pittosporum hawaiiense*-p, Hawaii 45—*Pittosporum hawaiiense*-t, Hawaii 51—*Pittosporum hawaiiense*-u, Hawaii 52—*Pittosporum hawaiiense*-v, and Hawaii 54—*Pittosporum hawaiiense*-w, the physical and biological features of critical habitat in wet forest ecosystem are:

(A) Elevation: Less than 7,218 ft (2,200 m).

(B) Annual precipitation: Greater than 98 in (250 cm).

(C) Substrate: Very weathered soils to rocky substrate, basaltic lava, undeveloped soils, developed soils.

(D) Canopy contains one or more of the following native plant genera: *Acacia*, *Antidesma*, *Cheirodendron*, *Ilex*, *Melicope*, *Metrosideros*, *Myrsine*, *Pittosporum*, *Psychotria*.

(E) Subcanopy contains one or more of the following native plant genera: *Cibotium*, *Clermontia*, *Coprosma*, *Cyanea*, *Freycinetia*, *Hydrangea*, *Vaccinium*.

(F) Understory contains one or more of the following native plant genera: *Adenophorus*, *Cibotium*, *Cyrtandra*, *Dicranopteris*, *Huperzia*, *Peperomia*, *Stenogyne*.

(ii) In units Hawaii 24—*Pittosporum hawaiiense*-h-Section 8, Hawaii 24—*Pittosporum hawaiiense*-i-Section 9, Hawaii 42—*Pittosporum hawaiiense*-q, Hawaii 43—*Pittosporum hawaiiense*-r, and Hawaii 44—*Pittosporum hawaiiense*-s, the physical and biological features of critical habitat in wet forest ecosystem are those provided above in paragraphs (i)(A) through (F) of this entry, and in mesic forest ecosystem are:

(A) Elevation: Less than 6,562 ft (2,000 m).

(B) Annual precipitation: 39 to 150 in (100 to 380 cm).

(C) Substrate: Rocky, shallow, organic muck soils; rocky talus soils; shallow soils over weathered rock; deep soils over soft weathered rock; gravelly alluvium.

(D) Canopy contains one or more of the following native plant genera: *Acacia*, *Antidesma*, *Charpentiera*, *Chrysodracon*, *Metrosideros*, *Myrsine*, *Nestegis*, *Pisonia*, *Santalum*.

(E) Subcanopy contains one or more of the following native plant genera: *Coprosma*, *Freycinetia*, *Leptecophylla*, *Myoporum*, *Pipturus*, *Rubus*, *Sadleria*, *Sophora*.

(F) Understory contains one or more of the following native plant genera: *Ctenitis*, *Doodia*, *Dryopteris*, *Pelea*, *Sadleria*.

Family Rutaceae: *Melicope remyi* (no common name)

Hawaii 3—*Melicope remyi*-a, Hawaii 8—*Melicope remyi*-b, Hawaii 9—*Melicope remyi*-c, Hawaii 52—*Melicope remyi*-d, and Hawaii 54—*Melicope remyi*-e, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Melicope remyi* on Hawaii Island. In units Hawaii 3—*Melicope remyi*-a, Hawaii 8—*Melicope remyi*-b, Hawaii 9—*Melicope remyi*-c, Hawaii 52—*Melicope remyi*-d, and Hawaii 54—*Melicope remyi*-e, the physical and biological features of critical habitat in wet forest ecosystem are:

(i) Elevation: Less than 7,218 ft (2,200 m).

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(ii) Annual precipitation: Greater than 98 in (250 cm).

(iii) Substrate: Very weathered soils to rocky substrate, basaltic lava, undeveloped soils, developed soils.

(iv) Canopy contains one or more of the following native plant genera: *Acacia*, *Antidesma*, *Cheirodendron*, *Ilex*, *Melicope*, *Metrosideros*, *Myrsine*, *Pittosporum*, *Psychotria*.

(v) Subcanopy contains one or more of the following native plant genera: *Cibotium*, *Clermontia*, *Coprosma*, *Cyanea*, *Freycinetia*, *Hydrangea*, *Vaccinium*.

(vi) Understory contains one or more of the following native plant genera: *Adenophorus*, *Cibotium*, *Cyrtandra*, *Dicranopteris*, *Huperzia*, *Peperomia*, *Stenogyne*.

(2) *Fern and allies.*

FAMILY ASPLENIACEAE: *Asplenium peruvianum* VAR. *insulare* (NCN)

Hawaii 24—*Asplenium peruvianum* var. *insulare*—a, identified in the legal description in paragraph (k) of this section, constitutes critical habitat for *Asplenium peruvianum* var. *insulare* on Hawaii. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) *Metrosideros polymorpha* dry montane forest; *Dodonaea viscosa* dry montane shrubland; *Myoporum sandwicense-Sophora chrysophylla* dry montane forest; *Metrosideros polymorpha-Acacia koa* forest; or subalpine dry forest and shrubland with large, moist lava tubes (3.05 to 4.6 m (10 to 15 ft) in diameter), pits, deep cracks, and lava tree molds that have at least a moderate soil or ash accumulation or that are at the interface between younger aa lava flows and much older pahoehoe lava or ash deposits with a fairly consistent microhabitat (areas that are moist and dark); and containing one or more of the following associated native plant species: *Leptecophylla tameiameiae*, *Phyllostegia ambigua*, *Vaccinium reticulatum*, mosses, or liverworts; and

(ii) Elevations between 1,313 and 2,194 m (4,306 and 7,198 ft).

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FAMILY ASPLENIACEAE: *Asplenium dielerectum* (NCN)

Hawaii 17—*Asplenium dielerectum*—a and Hawaii 18—*Asplenium dielerectum*—b, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Asplenium dielerectum* 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:

(i) *Metrosideros polymorpha-Nestegis sandwicensis* lowland mesic forest containing one or more of the following associated native plant species: *Antidesma platyphyllum*, *A. pulvinatum*, *Diospyros sandwicensis*, *Microlepia* sp., *Nephrolepis* spp. *Nestegis sandwicensis*, *Psydrax odorata*, *Wikstroemia phillyreifolia*, or *Wikstroemia sandwicensis*; and

(ii) Elevations between 510 and 981 m (1,672 and 3,217 ft).

FAMILY GRAMMITIDACEAE: *Adenophorus periens* (PALAI LAAU)

Hawaii 28—*Adenophorus periens*—a, identified in the legal description in paragraph (k) of this section, constitutes critical habitat for *Adenophorus periens* on Hawaii. Within this unit, the currently known primary constituent elements of critical habitat include but are not limited to, the habitat components provided by:

(i) Epiphytic on *Metrosideros polymorpha* or *Ilex anomala*, or possibly other native tree trunks, in *Metrosideros polymorpha-Cibotium glaucum* lowland wet forest containing one or more of the following associated native plant species: *Broussasia arguta*, *Cheirodendron trigynum*, *Cyanea* sp., *Cyrtandra* sp., *Dicranopteris linearis*, *Freycinetia arborea*, *Hedyotis terminalis*, *Labordia hirtella*, *Machaerina angustifolia*, *Psychotria hawaiiensis*, or *Psychotria* sp.; and

(ii) Elevations between 675 and 921 m (2,215 and 3,021 ft).

[68 FR 9241, Feb. 27, 2003, as amended at 68 FR 13055, Mar. 18, 2003; 68 FR 26038, May 14, 2003; 68 FR 28072, May 22, 2003; 68 FR 36080, June 17, 2003; 68 FR 39704, July 2, 2003; 77 FR 57767, Sept. 18, 2012; 83 FR 42424, Aug. 21, 2018. Redesignated at 85 FR 82388, Dec. 18, 2020; 88 FR 7147, Feb. 2, 2023; 88 FR 17959, Mar. 12, 2024]