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CODE OF FEDERAL REGULATIONS

Title 50
Wildlife and Fisheries

Part 17 (§ 17.99(i) to End and § 17.100 to End)

Revised as of October 1, 2012

Containing a codification of documents
of general applicability and future effect

As of October 1, 2012

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Cite this Code: CFR

To cite the regulations in this volume use title, part and section number. Thus, 50 CFR 17.99 *refers to title 50, part 17, section 99.*

Explanation

The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the Federal Government. The Code is divided into 50 titles which represent broad areas subject to Federal regulation. Each title is divided into chapters which usually bear the name of the issuing agency. Each chapter is further subdivided into parts covering specific regulatory areas.

Each volume of the Code is revised at least once each calendar year and issued on a quarterly basis approximately as follows:

Title 1 through Title 16.....as of January 1
Title 17 through Title 27.....as of April 1
Title 28 through Title 41.....as of July 1
Title 42 through Title 50.....as of October 1

The appropriate revision date is printed on the cover of each volume.

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The Code of Federal Regulations is kept up to date by the individual issues of the Federal Register. These two publications must be used together to determine the latest version of any given rule.

To determine whether a Code volume has been amended since its revision date (in this case, October 1, 2012), consult the ''List of CFR Sections Affected (LSA),'' which is issued monthly, and the ''Cumulative List of Parts Affected,'' which appears in the Reader Aids section of the daily Federal Register. These two lists will identify the Federal Register page number of the latest amendment of any given rule.

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Each volume of the Code contains amendments published in the Federal Register since the last revision of that volume of the Code. Source citations for the regulations are referred to by volume number and page number of the Federal Register and date of publication. Publication dates and effective dates are usually not the same and care must be exercised by the user in determining the actual effective date. In instances where the effective date is beyond the cut-off date for the Code a note has been inserted to reflect the future effective date. In those instances where a regulation published in the Federal Register states a date certain for expiration, an appropriate note will be inserted following the text.

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The Paperwork Reduction Act of 1980 (Pub. L. 96–511) requires Federal agencies to display an OMB control number with their information collection request.

Many agencies have begun publishing numerous OMB control numbers as amendments to existing regulations in the CFR. These OMB numbers are placed as close as possible to the applicable recordkeeping or reporting requirements.

OBSOLETE PROVISIONS

Provisions that become obsolete before the revision date stated on the cover of each volume are not carried. Code users may find the text of provisions in effect on a given date in the past by using the appropriate numerical list of sections affected. For the period before January 1, 2001, consult either the List of CFR Sections Affected, 1949–1963, 1964–1972, 1973–1985, or 1986–2000, published in eleven separate volumes. For the period beginning January 1, 2001, a ''List of CFR Sections Affected'' is published at the end of each CFR volume.

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The term ''[Reserved]'' is used as a place holder within the Code of Federal Regulations. An agency may add regulatory information at a ''[Reserved]'' location at any time. Occasionally ''[Reserved]'' is used editorially to indicate that a portion of the CFR was left vacant and not accidentally dropped due to a printing or computer error.

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What is incorporation by reference? Incorporation by reference was established by statute and allows Federal agencies to meet the requirement to publish regulations in the Federal Register by referring to materials already published elsewhere. For an incorporation to be valid, the Director of the Federal Register must approve it. The legal effect of incorporation by reference is that the material is treated as if it were published in full in the Federal Register (5 U.S.C. 552(a)). This material, like any other properly issued regulation, has the force of law.

What is a proper incorporation by reference? The Director of the Federal Register will approve an incorporation by reference only when the requirements of 1 CFR part 51 are met. Some of the elements on which approval is based are:

(a) The incorporation will substantially reduce the volume of material published in the Federal Register.

(b) The matter incorporated is in fact available to the extent necessary to afford fairness and uniformity in the administrative process.

(c) The incorporating document is drafted and submitted for publication in accordance with 1 CFR part 51.

What if the material incorporated by reference cannot be found? If you have any problem locating or obtaining a copy of material listed as an approved incorporation by reference, please contact the agency that issued the regulation containing that incorporation. If, after contacting the agency, you find the material is not available, please notify the Director of the Federal Register, National Archives and Records Administration, 8601 Adelphi Road, College Park, MD 20740-6001, or call 202-741-6010.

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A subject index to the Code of Federal Regulations is contained in a separate volume, revised annually as of January 1, entitled CFR INDEX AND FINDING AIDS. This volume contains the Parallel Table of Authorities and Rules. A list of CFR titles, chapters, subchapters, and parts and an alphabetical list of agencies publishing in the CFR are also included in this volume.

An index to the text of ''Title 3—The President'' is carried within that volume.

The Federal Register Index is issued monthly in cumulative form. This index is based on a consolidation of the ''Contents'' entries in the daily Federal Register.

A List of CFR Sections Affected (LSA) is published monthly, keyed to the revision dates of the 50 CFR titles.

REPUBLICATION OF MATERIAL

There are no restrictions on the republication of material appearing in the Code of Federal Regulations.

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CHARLES A. BARTH,
Director,
Office of the Federal Register.
October 1, 2012.

THIS TITLE

Title 50—FISH AND WILDLIFE is composed of thirteen volumes. The parts in these volumes are arranged in the following order: Parts 1–16; part 17 (17.1 to 17.95(a)), part 17 (17.95(b)), part (17.95(c) to (e)), part 17 (17.95(f) to end of 17.95), part 17 (17.96 to 17.98), part 17 (17.99(a) to 17.99(h)), part 17 (17.99(i) to end of part 17), parts 18–199, parts 200–227, parts 228–599, parts 600–659, and part 660 to end. The first nine volumes consist of parts 1–16, part 17 (17.1 to 17.95(a)), part 17 (17.95(b)), part 17 (17.95(c) to (e)), part 17 (17.95(f) to end of 17.95), part 17 (17.96 to 17.98), part 17 (17.99(a) to 17.99(h), part 17 (17.99(i) to end of part 17), and parts 18–199 and contain the current regulations issued under chapter I—United States Fish and Wildlife Service, Department of the Interior. The tenth volume (parts 200-227) contains the current regulations issued under chapter II--the National Marine Fisheries Service, National Oceanic and Atmospheric Administration. The eleventh volume (parts 228–599) contains the remaining current regulations issued under chapter II—National Marine Fisheries Service, National Oceanic and Atmospheric Administration, Department of Commerce; and the current regulations issued under chapter III—International Fishing and Related Activities, chapter IV—Joint Regulations (United States Fish and Wildlife Service, Department of the Interior and National Marine Fisheries Service, National Oceanic and Atmospheric Administration, Department of Commerce); Endangered Species Committee regulations; and chapter V—Marine Mammal Commission. The twelfth and thirteenth volumes (parts 600–659 and part 660 to end) contain the current regulations issued under chapter VI—Fishery Conservation and Management, National Oceanic and Atmospheric Administration, Department of Commerce. The contents of these volumes represent all current regulations codified under this title of the CFR as of October 1, 2012.

Alphabetical listings of endangered and threatened wildlife and plants appear in §§ 17.11 and 17.12.

The OMB control numbers for the National Oceanic and Atmospheric Administration appear in 15 CFR 902.1.

For this volume, Cheryl E. Sirofchuck was Chief Editor. The Code of Federal Regulations publication program is under the direction of Michael L. White, assisted by Ann Worley.

Title 50—Wildlife and Fisheries

(This book contains part 17, §17.99(i) to end and §§17.100 to end)

Part

CHAPTER I—United States Fish and Wildlife Service, Department of the Interior (Continued) 17

CHAPTER I—UNITED STATES FISH AND WILDLIFE SERVICE, DEPARTMENT OF THE INTERIOR (CONTINUED)

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

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

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Subpart I—Interagency Cooperation (Continued)

Sec.

17.99 Critical habitat; plants on the islands of Kauai, Niihau, Molokai, Maui, Kahoolawe, Oahu, and Hawaii, HI, and on the Northwestern Hawaiian Islands. (Continued)

Subpart J—Manatee Protection Areas

17.100 Purpose.
17.101 Scope.
17.102 Definitions.
17.103 Establishment of protection areas.
17.104 Prohibitions.
17.105 Permits and exceptions.
17.106 Emergency establishment of protection areas.
17.107 Facilitating enforcement.
17.108 List of designated manatee protection areas.

AUTHORITY: 16 U.S.C. 1361–1407; 16 U.S.C. 1531–1544; 16 U.S.C. 4201–4245; Pub. L. 99–625, 100 Stat. 3500; unless otherwise noted.

SOURCE: 40 FR 44415, Sept. 26, 1975, unless otherwise noted.

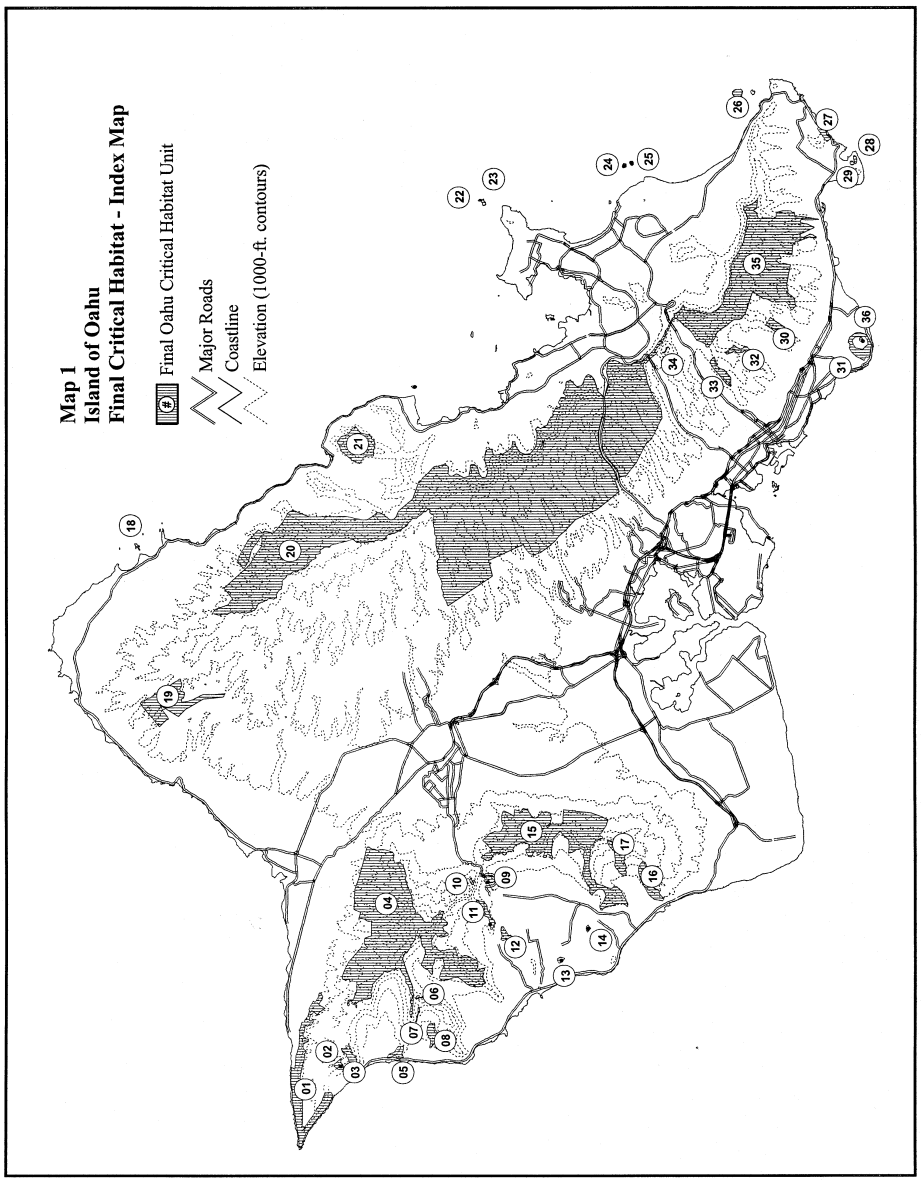
Subpart I—Interagency Cooperation (Continued)

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 islands of Kauai, Niihau, Molokai, Maui, Kahoolawe, Oahu, and Hawaii, HI, and on the Northwestern Hawaiian Islands. (Continued)

(i) *Maps and critical habitat unit descriptions for the island of Oahu, HI.* The following paragraphs contain the legal descriptions of the critical habitat units designated for the Hawaiian island of Oahu. Existing manmade features and structures within the boundaries of the mapped units, such as buildings; roads; aqueducts and other water system features, including but not limited to, pumping stations, irrigation ditches, pipelines, siphons, tunnels, water tanks, gaging stations, intakes, reservoirs, diversions, flumes, and wells; existing trails; campgrounds and their immediate surrounding landscaped area; scenic lookouts; remote helicopter landing sites; existing fences; telecommunications equipment towers and associated structures, electrical power transmission and distribution lines, communication facilities and regularly maintained associated rights-of-way and access ways; radars; telemetry antennas; missile launch sites; arboreta and gardens, heiau (indigenous places of worship or shrines), and other archaeological sites; airports; other paved areas; and lawns and other rural residential landscaped areas do not contain one or more of the primary constituent elements described for each species in paragraph (j) of this section and therefore are not included in the critical habitat designations. Critical habitat units are described below. Coordinates in UTM Zone 4 with units in meters using North American Datum of 1983 (NAD83). The following map shows the general locations of the 317 critical habitat units designated on the island of Oahu.

(1) NOTE: Map 1—Index map follows:

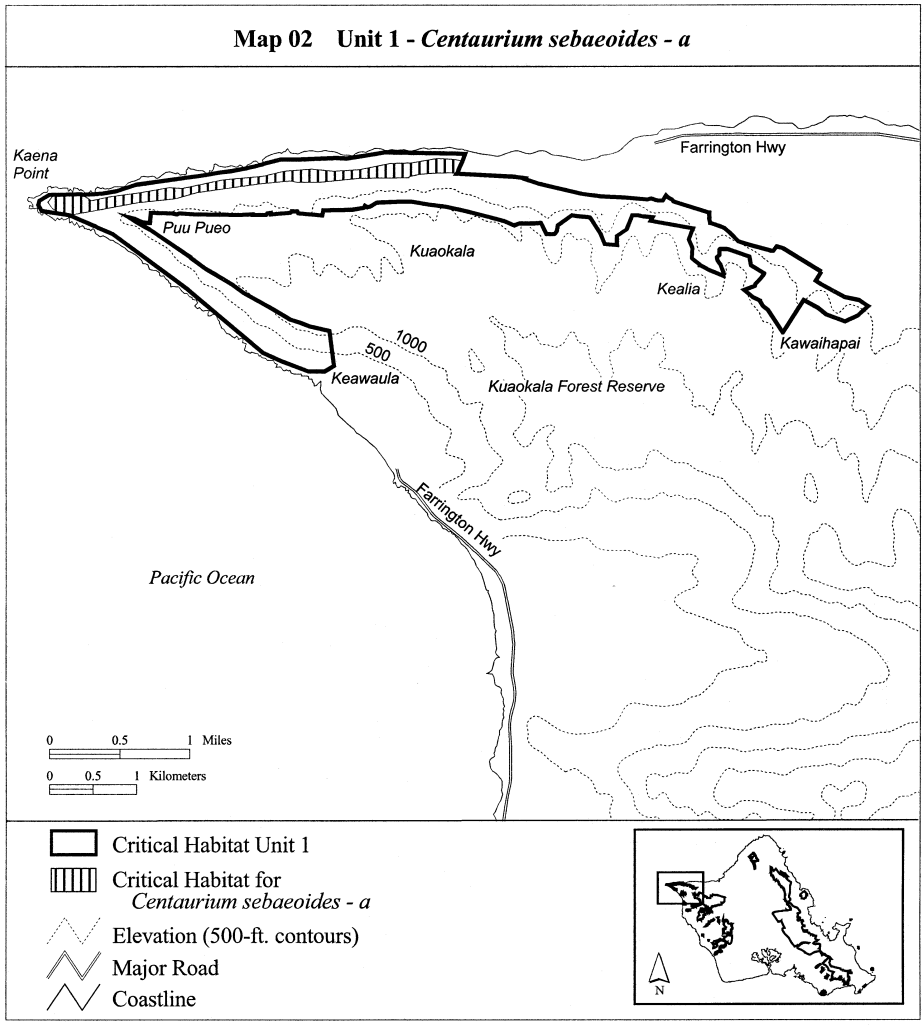


(2) Oahu 1—*Centaurium sebaeoides*—a (61 ha; 151 ac)

(i) Unit consists of the following 41 boundary points: Start at 575051, 2385984; 575168, 2385907; 575381, 2385957; 575728, 2386002; 576060, 2386059; 576211, 2386052; 576675, 2386146; 577140, 2386190; 577385, 2386247; 577692, 2386272; 577943, 2386247; 578245, 2386266; 578596, 2386335; 578835, 2386341; 579136, 2386391; 579331, 2386379; 579418, 2386363; 579365, 2386234; 579326, 2386224; 579284, 2386229; 579083, 2386225; 578934, 2386215; 578812, 2386182;

578812, 2386173; 578242, 2386164; 577779, 2386117; 577527, 2386117; 577448, 2386136; 577102, 2386103; 576728, 2386052; 576378, 2386005; 576135, 2385935; 575699, 2385884; 575419, 2385832; 575157, 2385789; 574970, 2385752; 574806, 2385766; 574722, 2385822; 574666, 2385892; 574727, 2385962; 574813, 2385980; return to starting point.

(ii) NOTE: Map 2 follows:

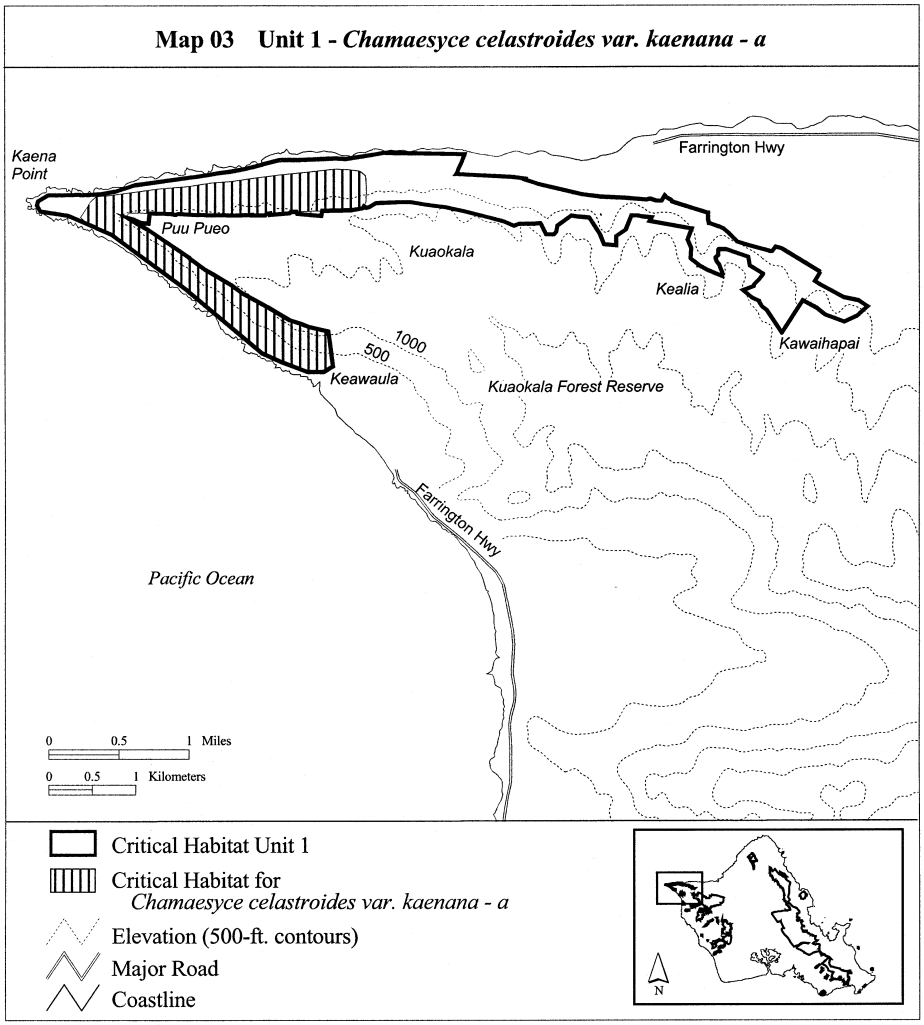


(3) Oahu 1—*Chamaesyce celastroides* var. *kaenana*—a (231 ha; 571 ac)

(i) Unit consists of the following 51 boundary points: Start at 576308, 2385257; 576310, 2385255; 576482, 2385122; 576596, 2385060; 576780, 2384950; 576915, 2384849; 577201, 2384696; 577456, 2384543; 577457, 2384543; 577566, 2384511; 577687, 2384461; 577875, 2384421; 577897, 2384415; 577947, 2384017; 577842, 2383950; 577659, 2383950; 577365, 2384061; 577132, 2384164; 576278, 2384884; 575413, 2385523; 575412,

2385523; 575247, 2385596; 575153, 2385648; 575059, 2385726; 575131, 2385837; 575170, 2385898; 575237, 2385959; 575392, 2385976; 575949, 2386049; 576293, 2386077; 576565, 2386121; 576787, 2386138; 577037, 2386171; 577343, 2386210; 577704, 2386249; 577970, 2386277; 578126, 2386271; 578265, 2386255; 578320, 2386199; 578331, 2386071; 578326, 2385899; 578293, 2385827; 578155, 2385804; 577627, 2385796; 576867, 2385746; 576360, 2385755; 575731, 2385777; 575614, 2385777; 575581, 2385727; 575692, 2385660; 575835, 2385580; return to starting point.

(ii) NOTE: Map 3 follows:

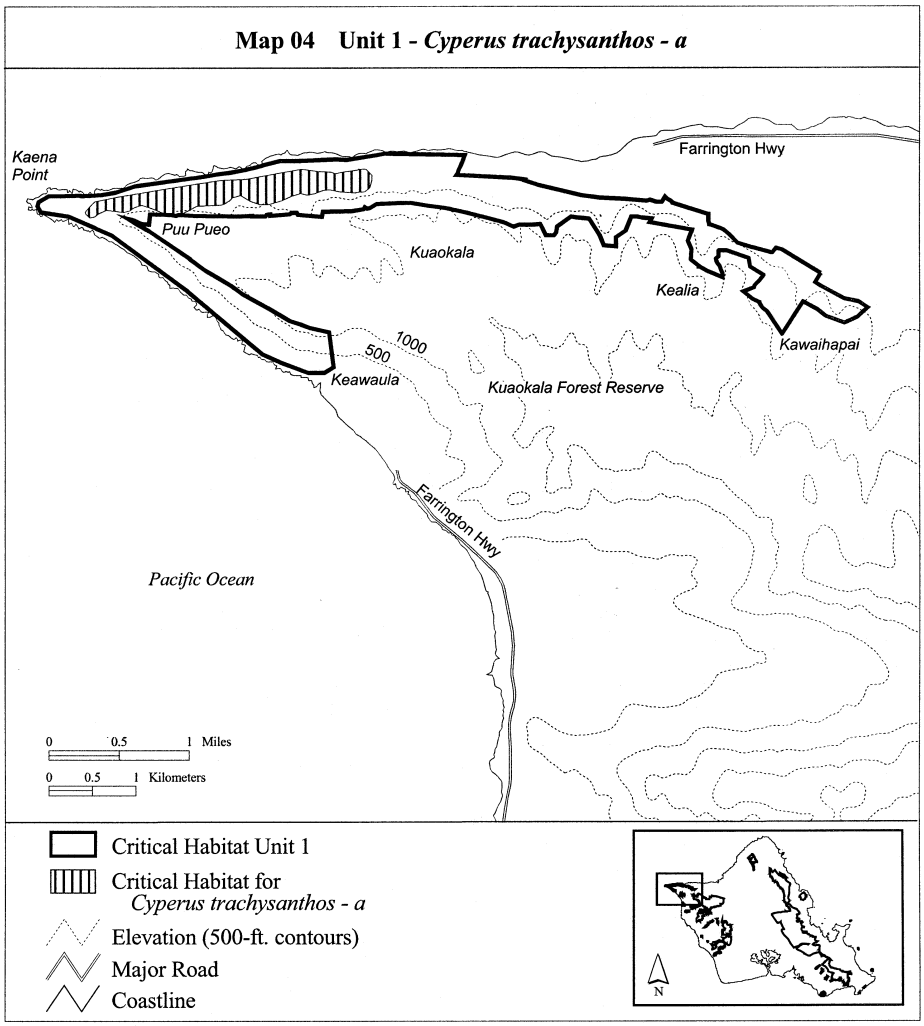


(4) Oahu 1—*Cyperus trachysanthos*—a (78 ha; 193 ac)

(i) Unit consists of the following 56 boundary points: Start at 575111, 2385777; 575104, 2385794; 575138, 2385842; 575212, 2385916; 575474, 2385967; 576015, 2386059; 576440, 2386124; 576662, 2386160; 576954, 2386170; 577298, 2386235; 577591,

2386291; 577777, 2386257; 577916, 2386253; 577974, 2386238; 578056, 2386253; 578228, 2386278; 578229, 2386286; 578316, 2386286; 578383, 2386219; 578383, 2386161; 578364, 2386074; 578302, 2386026; 578206, 2386022; 578205, 2386017; 578022, 2386026; 577902, 2386050; 577835, 2386045; 577738, 2386012; 577652, 2385993; 577570, 2386007; 577469, 2385973; 577363, 2385930; 577204, 2385882; 577112, 2385882; 577002, 2385920; 576891, 2385983; 576804, 2385964; 576771, 2385935; 576703, 2385887; 576650, 2385877; 576501, 2385867; 576385, 2385863; 576313, 2385824; 576241, 2385790; 576150, 2385752; 575996, 2385786; 575866, 2385838; 575754, 2385872; 575672, 2385853; 575619, 2385810; 575547, 2385795; 575451, 2385805; 575349, 2385818; 575268, 2385780; 575215, 2385741; 575157, 2385730; return to starting point.

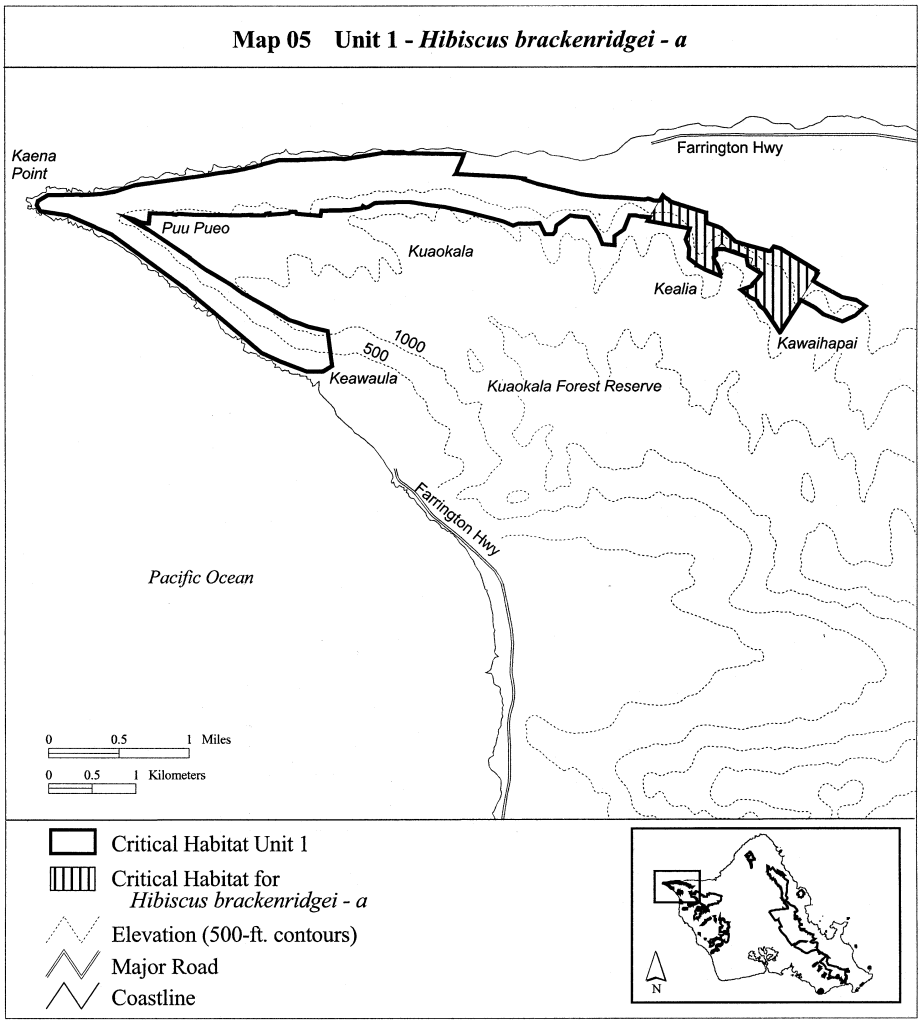
(ii) NOTE: Map 4 follows:



(5) Oahu 1—*Hibiscus brackenridgei*—a (78 ha; 193 ac)

(i) Unit consists of the following 89 boundary points: Start at 582235, 2385764; 582235, 2385703; 582245, 2385655; 582239, 2385640; 582361, 2385607; 582365, 2385614; 582376, 2385611; 582406, 2385591; 582466, 2385542; 582534, 2385473; 582530, 2385467; 582583, 2385397; 582622, 2385387; 582697, 2385368; 582698, 2385368; 582771, 2385349; 582837, 2385333; 582969, 2385301; 583028, 2385287; 583040, 2385330; 583050, 2385369; 583082, 2385357; 583521, 2385089; 583077, 2384390; 582908, 2384650; 582852, 2384698; 582818, 2384756; 582818, 2384757; 582738, 2384795; 582634, 2384882; 582757, 2384928; 582765, 2384950; 582790, 2384982; 582816, 2385003; 582835, 2385024; 582849, 2385043; 582861, 2385069; 582859, 2385082; 582842, 2385102; 582842, 2385127; 582830, 2385134; 582818, 2385138; 582801, 2385156; 582777, 2385158; 582758, 2385154; 582747, 2385186; 582750, 2385199; 582765, 2385221; 582764, 2385241; 582725, 2385262; 582711, 2385280; 582648, 2385284; 582600, 2385323; 582564, 2385342; 582544, 2385348; 582504, 2385341; 582466, 2385365; 582444, 2385398; 582407, 2385408; 582368, 2385363; 582325, 2385320; 582322, 2385255; 582331, 2385214; 582361, 2385178; 582377, 2385126; 582395, 2385086; 582398, 2385049; 582397, 2385046; 582219, 2385118; 582126, 2385175; 582038, 2385247; 582055, 2385587; 581567, 2385679; 581565, 2385680; 581743, 2385970; 581764, 2385946; 581812, 2385925; 581815, 2385913; 581815, 2385912; 581825, 2385902; 581826, 2385901; 581834, 2385899; 581833, 2385898; 581835, 2385886; 581903, 2385869; 581908, 2385875; 582076, 2385822; 582074, 2385807; 582080, 2385801; return to starting point.

(ii) NOTE: Map 5 follows:

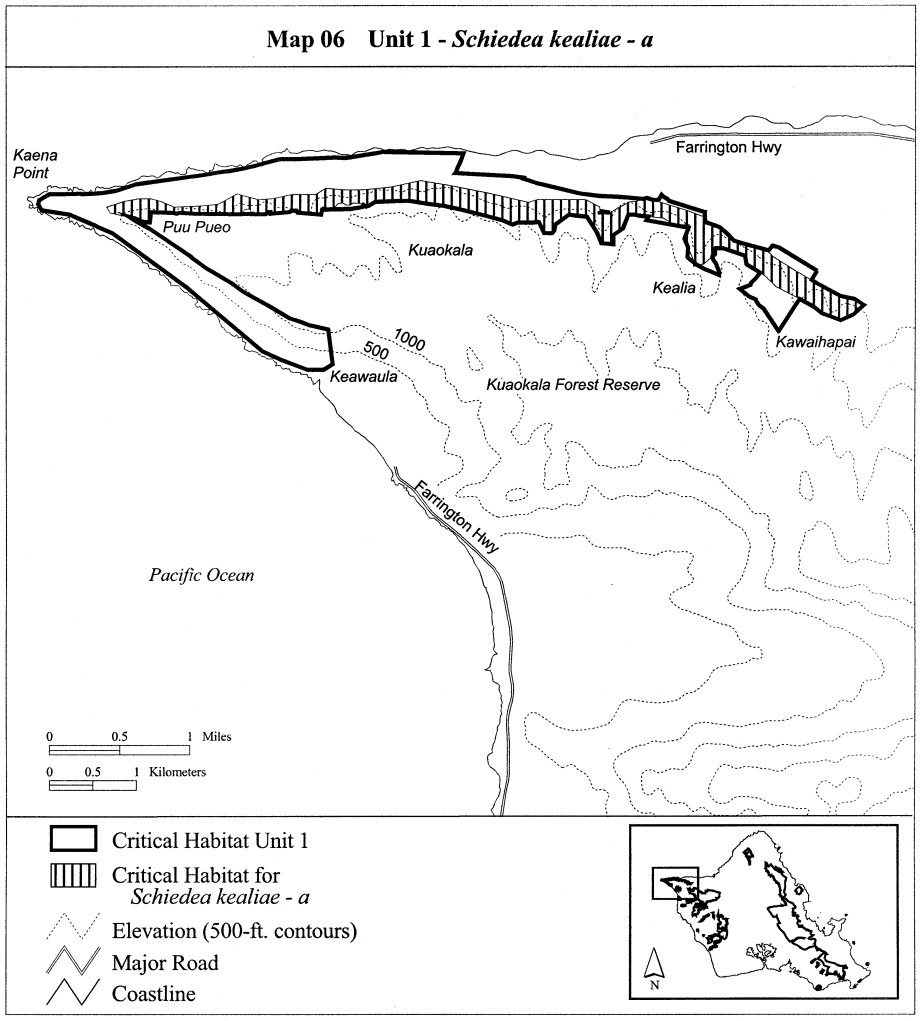


(6) Oahu 1—*Schiedea kealiae*—a (193 ha; 477 ac)

(i) Area consists of the following 138 boundary points: Start at 582365, 2385614; 582376, 2385611; 582406, 2385591; 582466, 2385542; 582534, 2385473; 582530, 2385467; 582583, 2385397; 582622, 2385387; 582697, 2385368; 582698, 2385368; 582771, 2385349; 582837, 2385333; 582969, 2385301; 582970, 2385301; 583021, 2385255; 583270, 2385092; 583519, 2384945; 583786, 2384799; 583958, 2384765; 584061, 2384696; 583941, 2384592; 583795, 2384523; 583571, 2384600; 583476, 2384678; 583287, 2384782; 583055, 2384902; 582917, 2385040; 582711, 2385169; 582694, 2385264; 582444, 2385350; 582350, 2385350; 582350, 2385281; 582221, 2385169; 582126, 2385169; 582040, 2385367; 582003, 2385463; 582059, 2385623; 581885, 2385625; 581766, 2385701; 581470, 2385733; 581363, 2385753; 581292, 2385582; 581180, 2385504; 581180, 2385401; 581043, 2385410; 580993, 2385527; 580876, 2385719; 580742, 2385732; 580671, 2385739; 580587, 2385684; 580505, 2385625; 580495, 2385553; 580475, 2385529; 580380, 2385529; 580313, 2385654; 580235,

2385648; 580148, 2385650; 580071, 2385650; 580011, 2385624; 579890, 2385675; 579718, 2385727; 579460, 2385787; 579228, 2385839; 579039, 2385865; 578841, 2385899; 578703, 2385899; 578439, 2385890; 578359, 2385838; 578331, 2385837; 578270, 2385867; 578185, 2385874; 578150, 2385855; 578104, 2385853; 578068, 2385878; 578011, 2385870; 577970, 2385822; 577909, 2385815; 577831, 2385831; 577818, 2385744; 577543, 2385765; 577529, 2385794; 577493, 2385800; 577450, 2385768; 577228, 2385755; 577224, 2385793; 577196, 2385796; 577178, 2385750; 577021, 2385746; 576991, 2385803; 576939, 2385805; 576897, 2385750; 576337, 2385757; 576119, 2385765; 575852, 2385776; 575844, 2385705; 575830, 2385704; 575829, 2385702; 575833, 2385655; 575753, 2385658; 575667, 2385701; 575384, 2385766; 575344, 2385828; 575555, 2385899; 575712, 2385925; 575847, 2385925; 575972, 2385894; 576115, 2385830; 576442, 2385848; 576631, 2385865; 576837, 2385977; 577095, 2385916; 577259, 2385925; 577482, 2385977; 577757, 2385977; 577869, 2386045; 578093, 2386028; 578291, 2386028; 578609, 2386054; 578961, 2386131; 579314, 2386071; 579727, 2385994; 580200, 2385882; 580303, 2385916; 580578, 2385916; 580862, 2385916; 581025, 2385831; 581025, 2385763; 581146, 2385763; 581266, 2385831; 581387, 2385892; 581447, 2385892; 581571, 2385935; 582039, 2385788; 582235, 2385711; 582235, 2385703; 582245, 2385655; 582239, 2385640; 582361, 2385607; return to starting point.

(ii) NOTE: Map 6 follows:

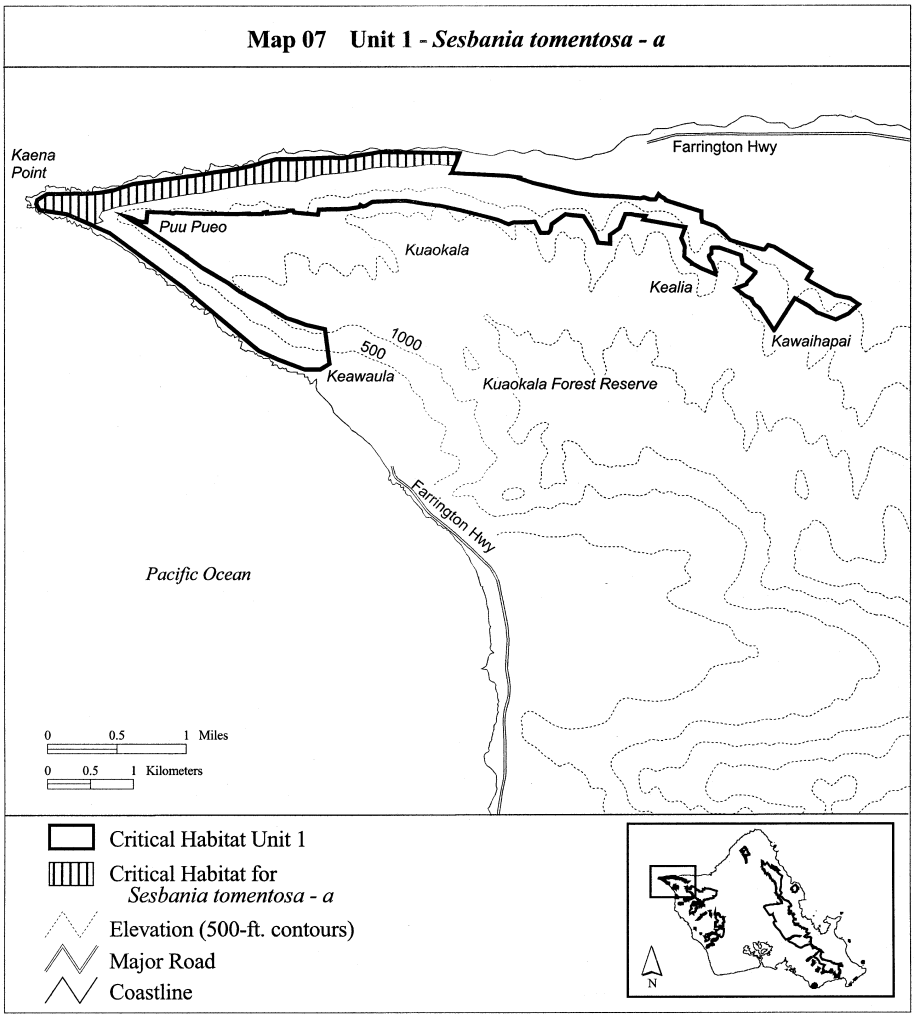


(7) Oahu 1—*Sesbania tomentosa*—a (101 ha; 250 ac)

(i) Unit consists of the following 70 boundary points: Start at 574558, 2385864; 574569, 2385910; 574683, 2385977; 574741, 2385979; 574788, 2385979; 574998, 2385979; 575206, 2385987; 575263, 2385988; 575282, 2385993; 575451, 2386022; 575668, 2386087; 575699, 2386094; 576319, 2386183; 576376, 2386186; 576495, 2386204; 576637, 2386230; 576767, 2386248; 576923, 2386277; 576926, 2386277; 576928, 2386275; 576929, 2386275; 576980, 2386288; 577035, 2386298; 577098, 2386318; 577139, 2386329; 577140, 2386329; 577141, 2386331; 577151, 2386335; 577321, 2386378; 577336, 2386381; 577539, 2386380; 577539, 2386381; 577540, 2386381; 577540, 2386382; 577979, 2386400; 578097, 2386392; 578439, 2386448; 578534, 2386462; 579452, 2386445; 579394, 2386306; 579354, 2386308; 579179, 2386315; 579092, 2386315; 578836, 2386286; 578783, 2386286; 578606, 2386293; 578434, 2386274; 578294, 2386249; 578107, 2386224; 577860, 2386199; 577676, 2386162; 577589, 2386131; 577590, 2386124; 577571, 2386125; 577561, 2386121; 577561,

2386125; 577412, 2386128; 577050, 2386092; 576800, 2386052; 576463, 2385983; 576365, 2385980; 575843, 2385893; 575502, 2385827; 575324, 2385776; 575292, 2385710; 575339, 2385664; 575295, 2385646; 575203, 2385616; 574908, 2385748; 574601, 2385795; return to starting point.

(ii) NOTE: Map 7 follows:

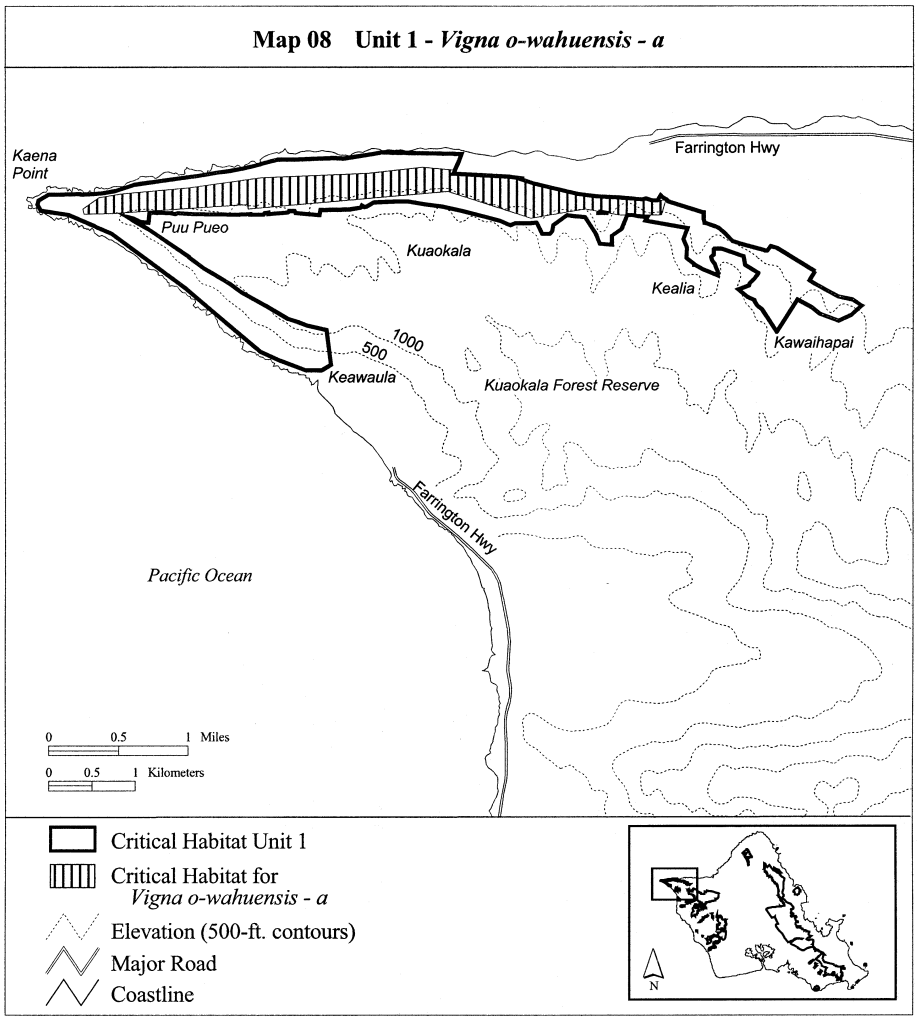


(8) Oahu 1—*Vigna o-wahuensis*—a (181 ha; 448 ac)

(i) Unit consists of the following 31 boundary points: Start at 575092, 2385751; 575081, 2385809; 575265, 2385942; 575531, 2385987; 576306, 2386058; 577144, 2386172; 578381, 2386223; 579003, 2386292; 579376, 2386260; 579359, 2386220; 579359, 2386219; 579360, 2386219; 579360, 2386218; 579361, 2386218; 580020, 2386181; 580139, 2386165; 580137, 2386157; 580278, 2386108; 580792, 2385988; 581014, 2385956; 581268, 2385944; 581636, 2385913; 581801, 2385913; 581750, 2385741; 581268, 2385741; 580873, 2385809; 580253, 2385706; 579290, 2386015;

576993, 2385810; 576984, 2385861; 575400, 2385757; return to starting point.

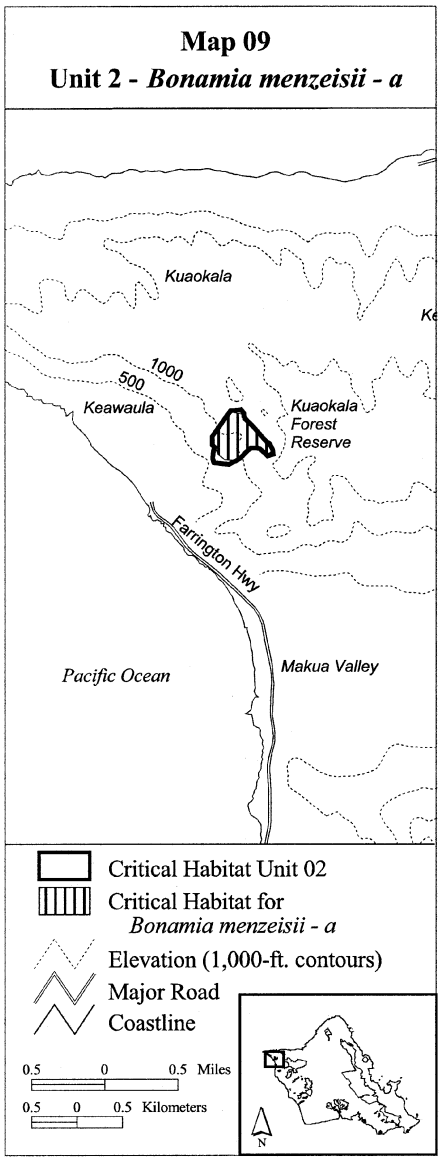
(ii) NOTE: Map 8 follows:



(9) Oahu 2—*Bonamia menziesii*—a (21 ha; 51 ac)

(i) Unit consists of the following 21 boundary points: Start at 579334, 2383456; 579333, 2383554; 579526, 2383824; 579661, 2383800; 579690, 2383768; 579693, 2383749; 579693, 2383748; 579792, 2383655; 579844, 2383597; 579988, 2383419; 579988, 2383385; 579968, 2383366; 579925, 2383371; 579833, 2383424; 579771, 2383438; 579703, 2383400; 579670, 2383342; 579588, 2383284; 579477, 2383294; 579395, 2383356; 579367, 2383424; return to starting point.

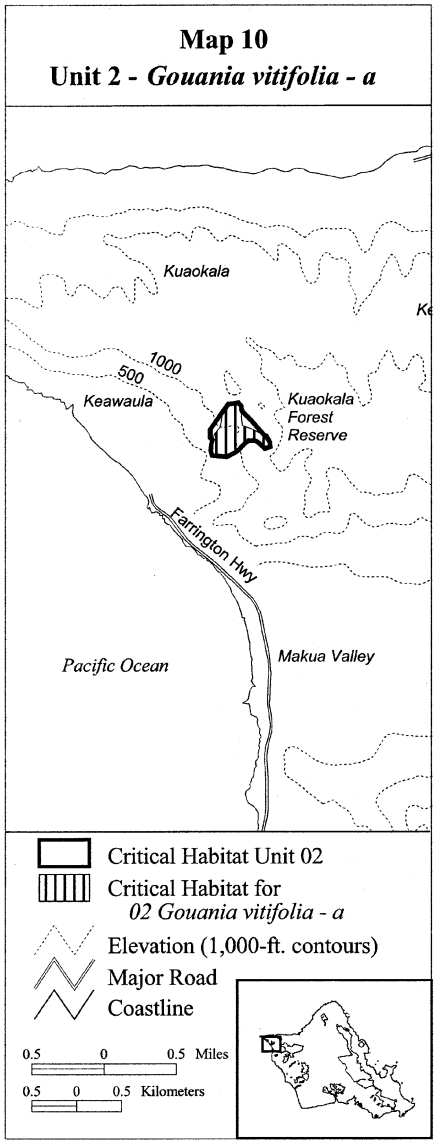
(ii) NOTE: Map 9 follows:



(10) Oahu 2—*Gouania vitifolia*—a (20 ha; 49 ac)

(i) Unit consists of the following 29 boundary points: Start at 579610, 2383845; 579650, 2383848; 579684, 2383810; 579684, 2383807; 579684, 2383736; 579684, 2383672; 579693, 2383598; 579800, 2383560; 579963, 2383474; 580001, 2383409; 580006, 2383353; 579941, 2383336; 579898, 2383379; 579842, 2383422; 579760, 2383426; 579704, 2383375; 579649, 2383319; 579580, 2383271; 579515, 2383241; 579352, 2383263; 579339, 2383310; 579343, 2383379; 579383, 2383499; 579443, 2383573; 579460, 2383641; 579469, 2383702; 579482, 2383736; 579503, 2383795; 579534, 2383838; return to starting point.

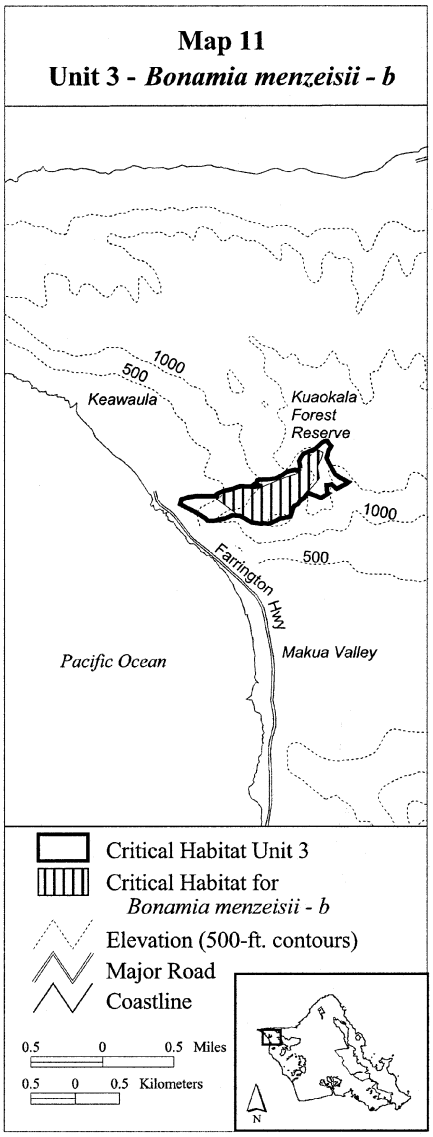
(ii) NOTE: Map 10 follows:



(11) Oahu 3—*Bonamia menziesii*—b (42 ha; 104 ac)

(i) Unit consists of the following 35 boundary points: Start at 579371, 2382797; 579436, 2382825; 579544, 2382850; 579623, 2382881; 579630, 2382883; 579645, 2382884; 579886, 2382879; 580161, 2382995; 580267, 2383024; 580298, 2383084; 580303, 2383086; 580304, 2383086; 580304, 2383087; 580304, 2383088; 580303, 2383095; 580306, 2383101; 580290, 2383172; 580359, 2383241; 580504, 2383303; 580566, 2383265; 580542, 2383178; 580504, 2383106; 580523, 2382971; 580393, 2382812; 580344, 2382744; 580214, 2382657; 580200, 2382575; 580137, 2382527; 580079, 2382532; 579993, 2382474; 579872, 2382460; 579769, 2382469; 579763, 2382471; 579592, 2382571; 579366, 2382744; return to starting point.

(ii) NOTE: Map 11 follows:

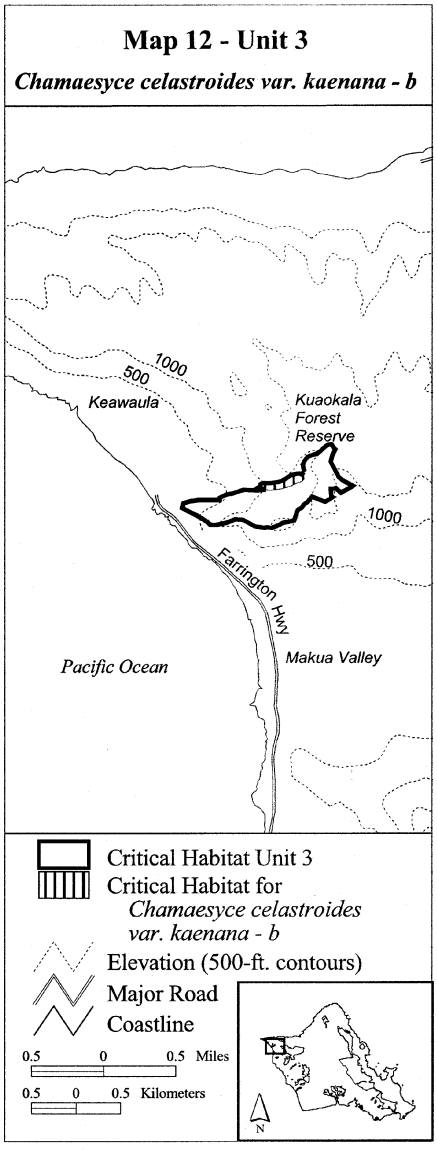


(12) Oahu 3—*Chamaesyce celastroides* var. *kaenana*—b (4 ha; 11 ac)

(i) Unit consists of the following 20 boundary points: Start at 579828, 2382953; 579860, 2382962; 579931, 2382959; 580028, 2382975; 580069, 2382994; 580111, 2383020; 580161, 2383047; 580238, 2383068; 580259, 2383068; 580304, 2383043; 580308, 2383004; 580285, 2382981; 580243, 2382969;

580166, 2382930; 580057, 2382895; 579931, 2382878; 579857, 2382888; 579796, 2382907; 579815, 2382923; 579823, 2382946; return to starting point.

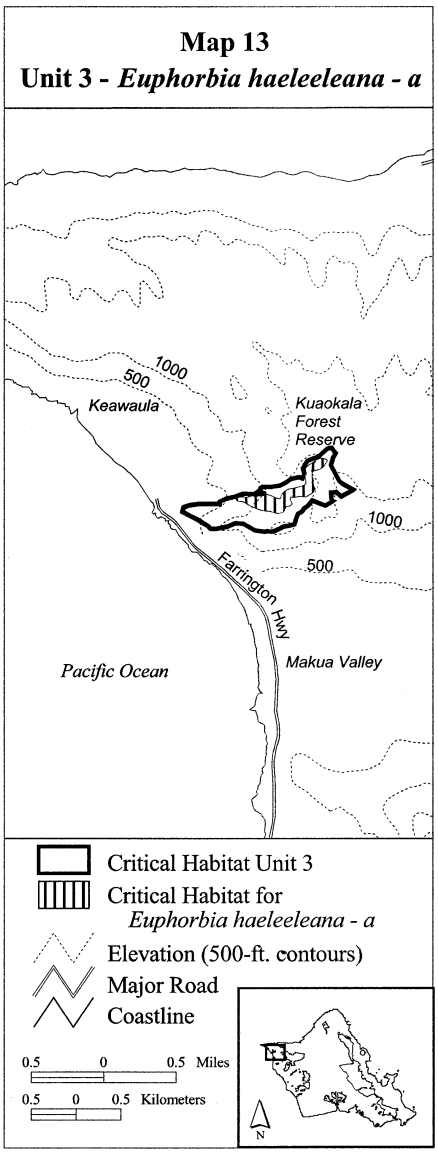
(ii) NOTE: Map 12 follows:



(13) Oahu 3—*Euphorbia haeleeleana*—a (15 ha; 37 ac)

(i) Unit consists of the following 67 boundary points: Start at 580326, 2382991; 580322, 2383035; 580313, 2383069; 580310, 2383096; 580312, 2383132; 580323, 2383169; 580360, 2383211; 580417, 2383248; 580464, 2383276; 580516, 2383287; 580559, 2383266; 580564, 2383251; 580546, 2383221; 580522, 2383183; 580490, 2383164; 580454, 2383149; 580419, 2383145; 580393, 2383120; 580393, 2383077; 580406, 2383031; 580409, 2382985; 580422, 2382939; 580407, 2382899; 580365, 2382870; 580322, 2382845; 580267, 2382852; 580241, 2382852; 580202, 2382842; 580161, 2382847; 580152, 2382821; 580166, 2382787; 580174, 2382763; 580147, 2382744; 580118, 2382744; 580095, 2382727; 580073, 2382677; 580047, 2382666; 580005, 2382663; 579971, 2382672; 579925, 2382689; 579891, 2382690; 579846, 2382692; 579777, 2382718; 579718, 2382747; 579667, 2382769; 579623, 2382795; 579573, 2382802; 579548, 2382821; 579550, 2382828; 579557, 2382839; 579597, 2382844; 579681, 2382847; 579726, 2382858; 579772, 2382862; 579828, 2382868; 579872, 2382878; 579935, 2382868; 579964, 2382850; 580008, 2382836; 580034, 2382829; 580048, 2382839; 580053, 2382855; 580066, 2382884; 580094, 2382917; 580131, 2382934; 580231, 2382955; 580294, 2382975; return to starting point.

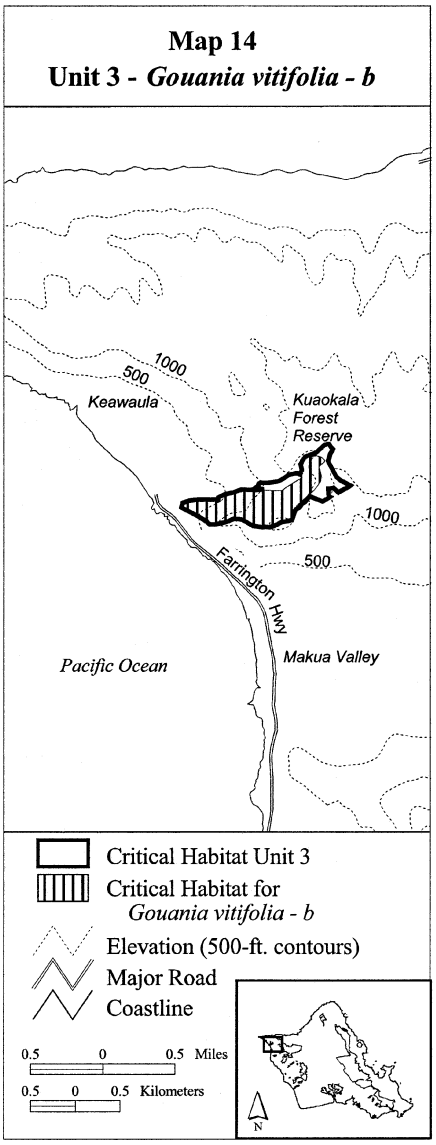
(ii) NOTE: Map 13 follows:



(14) Oahu 3—*Gouania vitifolia*—b (49 ha; 121 ac)

(i) Unit consists of the following 54 boundary points: Start at 580193, 2382540; 580147, 2382527; 580079, 2382519; 580044, 2382497; 579950, 2382459; 579881, 2382463; 579756, 2382502; 579653, 2382545; 579541, 2382553; 579451, 2382519; 579335, 2382489; 579270, 2382493; 579231, 2382532; 579115, 2382600; 579038, 2382639; 578960, 2382682; 578969, 2382730; 579038, 2382760; 579128, 2382773; 579253, 2382768; 579356, 2382768; 579455, 2382807; 579519, 2382828; 579614, 2382871; 579709, 2382871; 579859, 2382876; 580001, 2382871; 580083, 2382871; 580165, 2382927; 580298, 2383009; 580303, 2383086; 580304, 2383086; 580304, 2383087; 580304, 2383088; 580303, 2383094; 580307, 2383155; 580324, 2383211; 580371, 2383246; 580470, 2383263; 580526, 2383250; 580569, 2383211; 580500, 2383147; 580505, 2383104; 580526, 2383039; 580517, 2382970; 580453, 2382876; 580371, 2382811; 580302, 2382751; 580255, 2382708; 580229, 2382635; 580196, 2382544; 580195, 2382544; 580195, 2382543; 580194, 2382543; return to starting point.

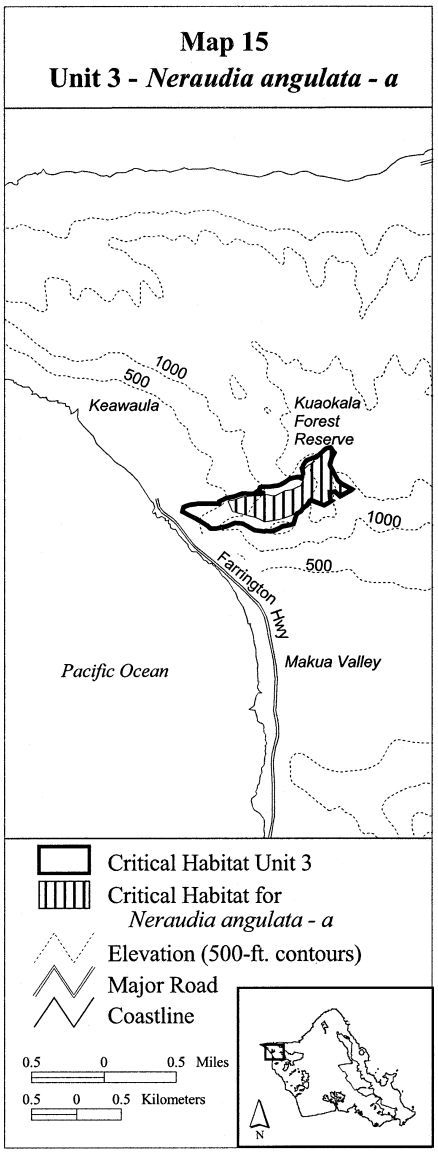
(ii) NOTE: Map 14 follows:



(15) Oahu 3—*Neraudia angulata*—a (39 ha; 98 ac)

(i) Unit consists of the following 52 boundary points: Start at 580537, 2382749; 580366, 2382818; 580282, 2382681; 580238, 2382660; 580091, 2382603; 580004, 2382584; 579879, 2382569; 579829, 2382591; 579784, 2382609; 579516, 2382681; 579463, 2382801; 579522, 2382810; 579632, 2382847; 579785, 2382860; 579904, 2382869; 579948, 2382857; 579998, 2382857; 580038, 2382875; 580110, 2382916; 580163, 2382925; 580204, 2382938; 580279, 2382972; 580314, 2383035; 580317, 2383119; 580317, 2383154; 580360, 2383194; 580401, 2383222; 580470, 2383301; 580555, 2383380; 580572, 2383390; 580608, 2383398; 580643, 2383357; 580653, 2383344; 580646, 2383327; 580623, 2383279; 580607, 2383228; 580600, 2383211; 580600, 2383210; 580600, 2383209; 580617, 2383205; 580695, 2383029; 580739, 2382994; 580852, 2382929; 580845, 2382924; 580718, 2382852; 580660, 2382901; 580632, 2382899; 580606, 2382898; 580606, 2382894; 580609, 2382810; 580623, 2382799; 580595, 2382784; return to starting point.

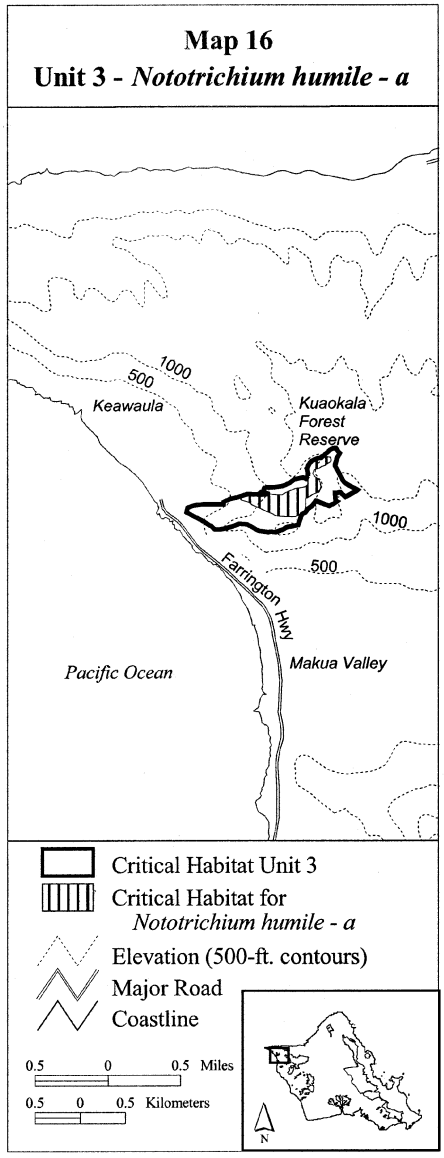
(ii) NOTE: Map 15 follows:



(16) Oahu 3—*Nototrichium humile*—a (21 ha; 51 ac)

(i) Unit consists of the following 58 boundary points: Start at 580322, 2383229; 580383, 2383263; 580458, 2383302; 580500, 2383306; 580555, 2383298; 580559, 2383275; 580557, 2383245; 580527, 2383226; 580494, 2383200; 580456, 2383192; 580423, 2383170; 580379, 2383157; 580361, 2383115; 580379, 2383082; 580427, 2383050; 580440, 2383016; 580448, 2382967; 580436, 2382930; 580411, 2382904; 580356, 2382875; 580328, 2382861; 580281, 2382833; 580277, 2382813; 580281, 2382750; 580265, 2382695; 580218, 2382650; 580160, 2382628; 580091, 2382628; 580010, 2382634; 579947, 2382642; 579922, 2382662; 579890, 2382677; 579853, 2382687; 579792, 2382717; 579691, 2382762; 579644, 2382794; 579561, 2382819; 579561, 2382843; 579581, 2382861; 579617, 2382879; 579628, 2382882; 579768, 2382880; 579863, 2382888; 579924, 2382880; 580020, 2382873; 580066, 2382904; 580174, 2382951; 580227, 2382953; 580281, 2382965; 580302, 2382995; 580302, 2383046; 580303, 2383086; 580304, 2383086; 580304, 2383087; 580304, 2383088; 580303, 2383093; 580304, 2383147; 580308, 2383210; return to starting point.

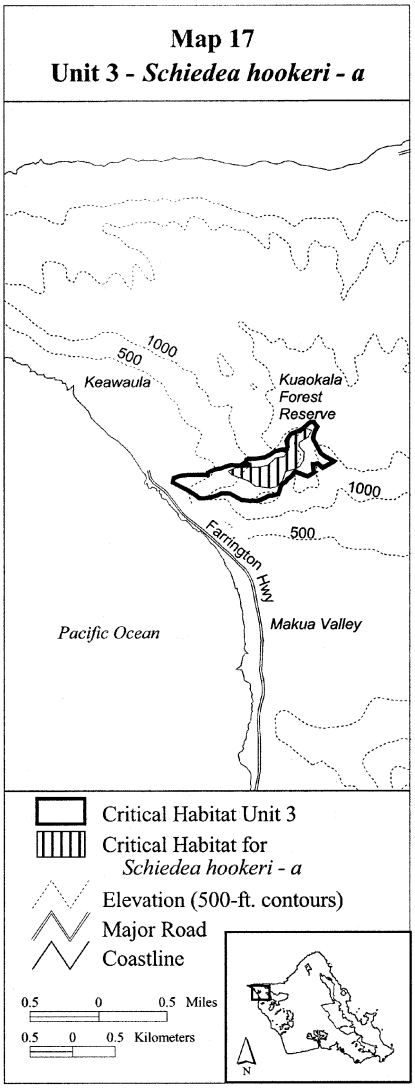
(ii) NOTE: Map 16 follows:



(17) Oahu 3—*Schiedea hookeri*—a (22 ha; 55 ac)

(i) Unit consists of the following 29 boundary points: Start at 580264, 2382989; 580304, 2383047; 580326, 2383118; 580326, 2383171; 580340, 2383251; 580415, 2383282; 580526, 2383322; 580592, 2383299; 580552, 2383224; 580446, 2383149; 580446, 2383104; 580499, 2383038; 580495, 2382994; 580495, 2382940; 580459, 2382870; 580397, 2382839; 580282, 2382808; 580247, 2382701; 580184, 2382630; 580100, 2382613; 579932, 2382639; 579843, 2382701; 579648, 2382772; 579613, 2382816; 579697, 2382852; 579839, 2382861; 579963, 2382861; 580074, 2382883; 580171, 2382971; return to starting point.

(ii) NOTE: Map 17 follows:

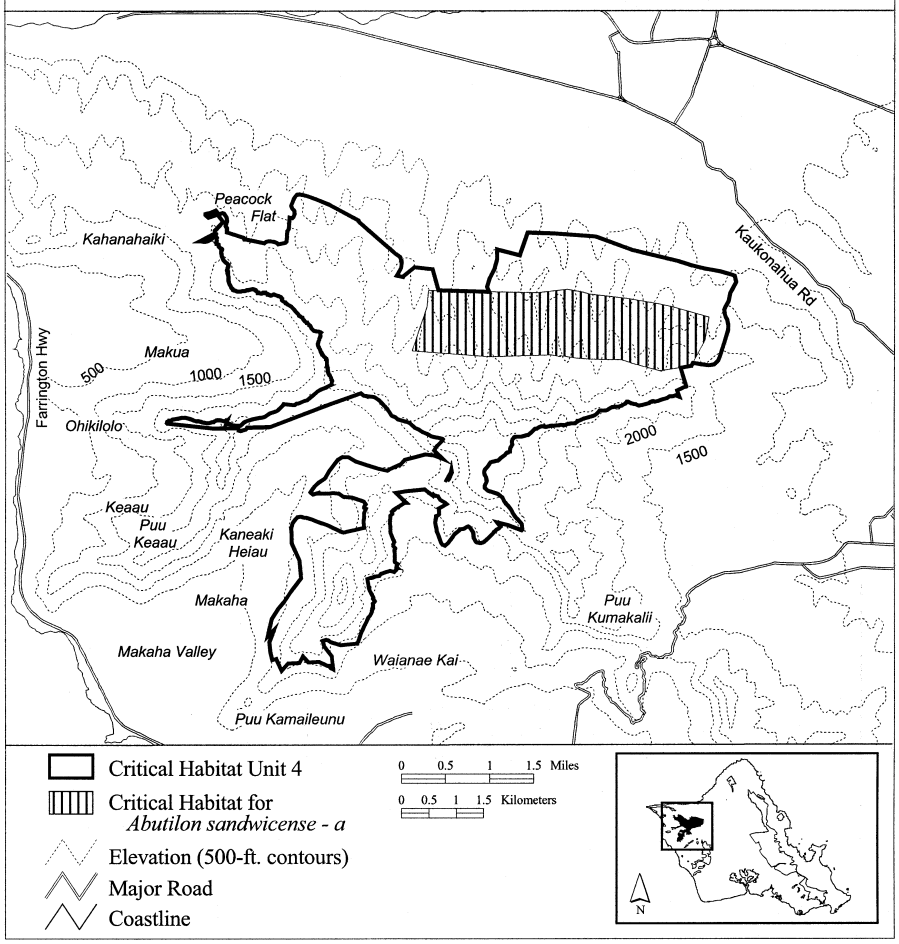


(18) Oahu 4—*Abutilon sandwicense*—a (617 ha; 1,492 ac)

(i) Unit consists of the following 25 boundary points: Start at 587021, 2380442; 587295, 2381250; 587320, 2381565; 589332, 2381513; 589879, 2381584; 590161, 2381525; 590284, 2381494; 590979, 2381406; 591581, 2381305; 591815, 2381256; 592481, 2381064; 592408, 2380627; 592166, 2380161; 591586, 2380069; 591071, 2380209; 590944, 2380253; 590851, 2380280; 590618, 2380280; 590310, 2380289; 590051, 2380311; 589743, 2380355; 589745, 2380336; 589576, 2380372; 588446, 2380333; 587034, 2380442; return to starting point.

(ii) NOTE: Map 18 follows:

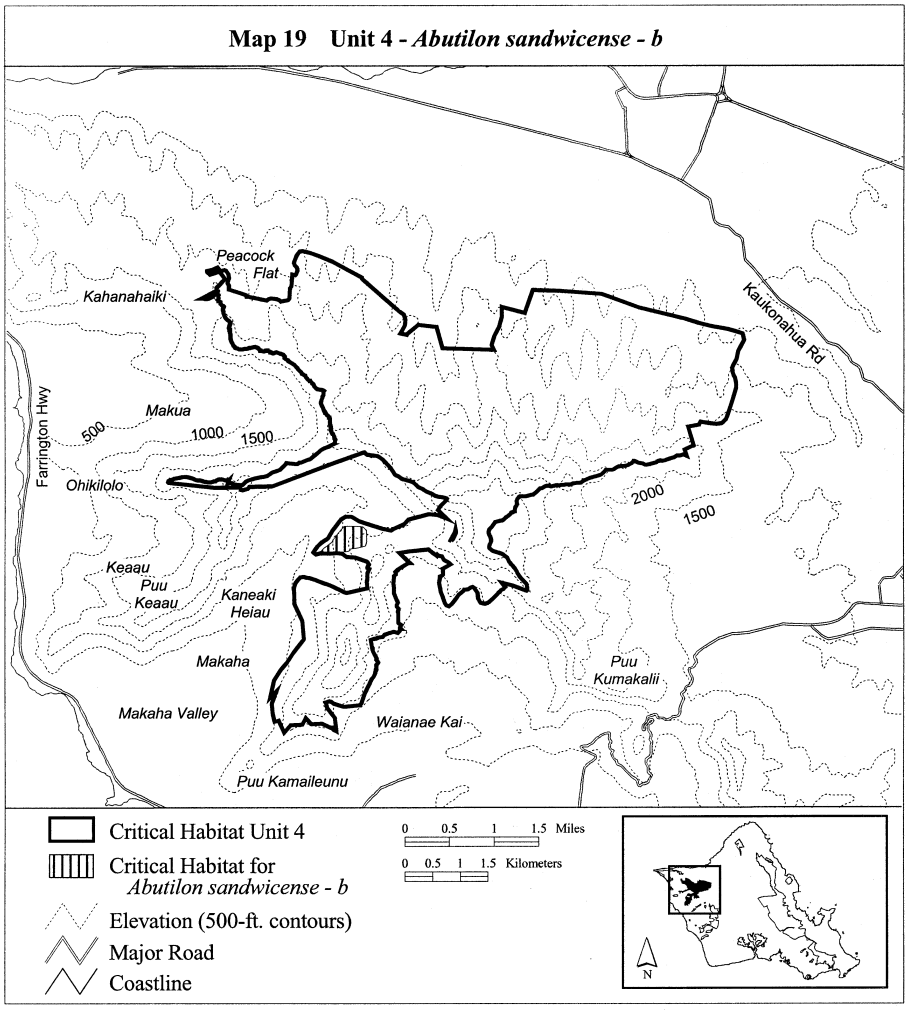
Map 18 Unit 4 - *Abutilon sandwicense - a*



(19) Oahu 4—*Abutilon sandwicense*—b (26 ha; 65 ac)

(i) Unit consists of the following 21 boundary points: Start at 585770, 2377843; 585514, 2377812; 585309, 2377812; 585302, 2377855; 585352, 2377905; 585502, 2378018; 585513, 2378023; 585503, 2378027; 585585, 2378144; 585675, 2378254; 585726, 2378312; 585921, 2378312; 586058, 2378297; 586124, 2378234; 586128, 2378117; 586128, 2378007; 586101, 2377945; 586050, 2377925; 585968, 2377914; 585837, 2377895; 585819, 2377855; return to starting point.

(ii) NOTE: Map 19 follows:

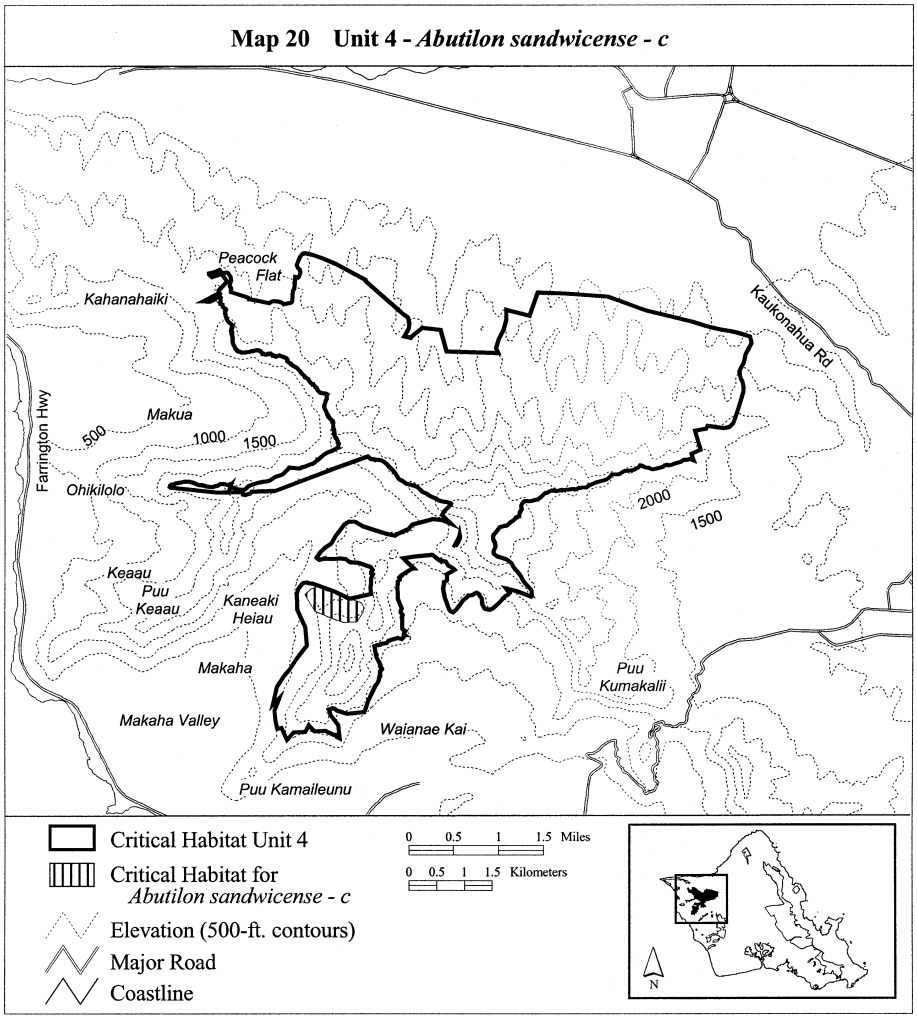


(20) Oahu 4—*Abutilon sandwicense*—c (41 ha; 102 ac)

(i) Unit consists of the following 13 boundary points: Start at 584947, 2377163; 585056, 2377267; 585189, 2377317; 585523, 2377179; 585815, 2377075; 585970, 2377021; 586011, 2376941; 586000, 2376834; 585894, 2376679; 585790, 2376674; 585652,

2376670; 585444, 2376741; 585135, 2376865; return to starting point.

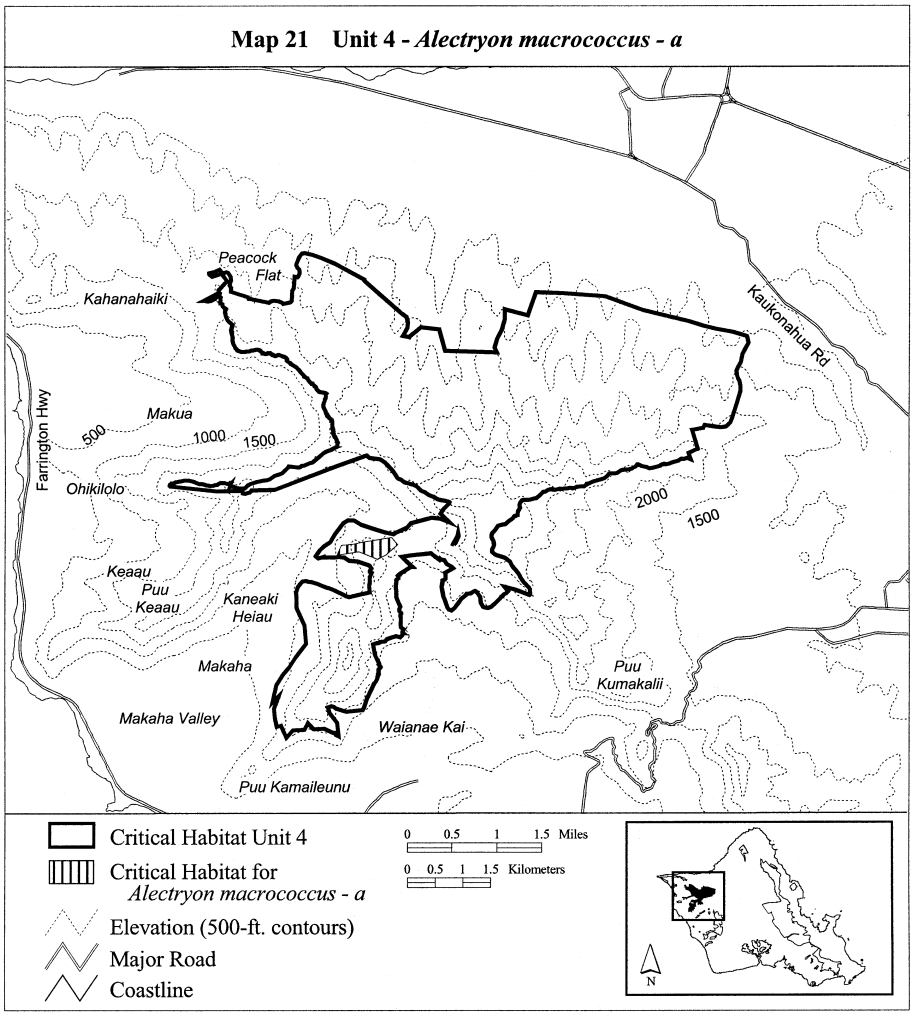
(ii) NOTE: Map 20 follows:



(21) Oahu 4—*Alectryon macrococcus*—a (23 ha; 58 ac)

(i) Unit consists of the following 11 boundary points: Start at 585550, 2377860; 585633, 2378026; 585845, 2378046; 586046, 2378091; 586234, 2378115; 586538, 2378174; 586652, 2378034; 586437, 2377855; 586289, 2377772; 585951, 2377906; 585637, 2377869; return to starting point.

(ii) NOTE: Map 21 follows:

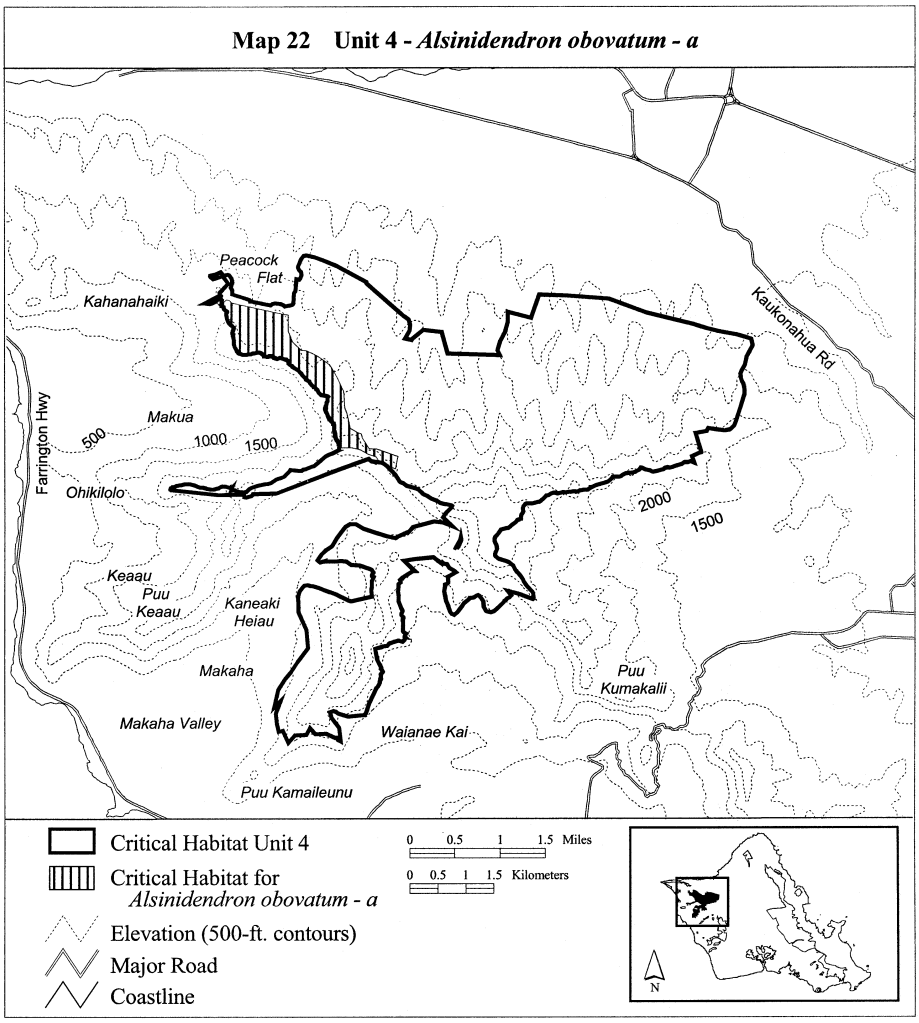


(22) Oahu 4—*Alsinidendron obovatum*—a (176 ha; 435 ac)

(i) Unit consists of the following 74 boundary points: Start at 584301, 2381528; 584276, 2381533; 584200, 2381533; 584168, 2381552; 584167, 2381553; 584150, 2381572; 584130, 2381584; 584129, 2381584; 584104, 2381586; 584065, 2381583; 584024, 2381575; 583997, 2381574; 583936, 2381555; 583934, 2381555; 583897, 2381549; 583890, 2381547; 583758, 2381567; 583747, 2381571; 583744, 2381574; 583679, 2381692; 583645, 2381923; 583660, 2382029; 583547, 2382173; 583547, 2382317; 583445, 2382468; 583526, 2382533; 583573, 2382527; 583625, 2382480; 584375, 2382308; 584634, 2382266; 584637, 2381962; 584681, 2381851; 584707, 2381777; 584869, 2381626; 584974, 2381615; 585148, 2381528; 585352, 2381394; 585415, 2381313; 585514, 2381138; 585630, 2380889; 585648, 2380581; 585694, 2380470; 585751, 2380215; 585885, 2380133; 585885, 2380132; 585887, 2380133; 585949, 2380115; 585967, 2380042; 586095, 2379844; 586223, 2379842; 586612, 2379713; 586570, 2379480; 586280, 2379613; 586221, 2379703; 586082, 2379747; 585944,

2379824; 585787, 2379865; 585584, 2379862; 585528, 2379995; 585464, 2380301; 585339, 2380521; 585359, 2380809; 585275, 2380813; 585134, 2380949; 585024, 2381070; 584865, 2381245; 584659, 2381371; 584615, 2381487; 584427, 2381499; 584329, 2381521; 584325, 2381523; 584324, 2381523; 584310, 2381528; 584309, 2381528; return to starting point.

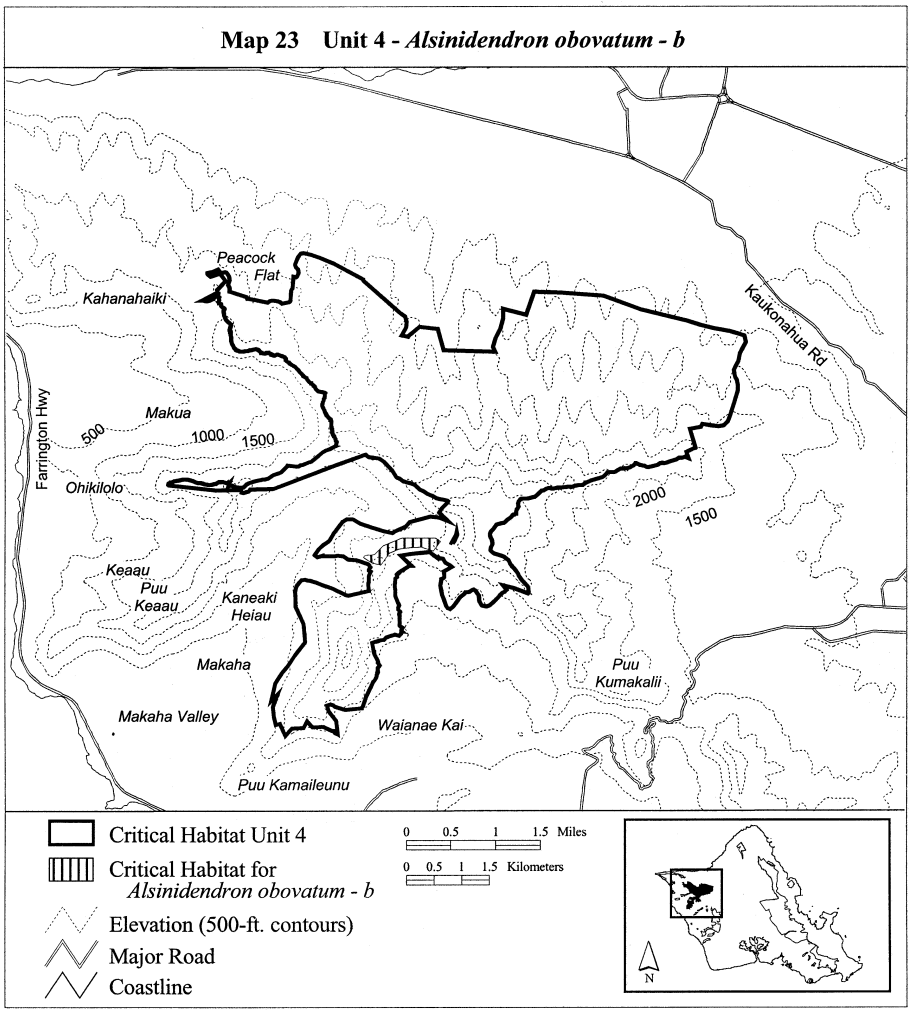
(ii) NOTE: Map 22 follows:



(23) Oahu 4—*Alsinidendron obovatum*—b (25 ha; 62 ac)

(i) Unit consists of the following 15 boundary points: Start at 587357, 2378140; 587448, 2378072; 587324, 2377899; 587184, 2377944; 587092, 2377970; 586908, 2377966; 586707, 2377940; 586523, 2377861; 586365, 2377651; 586207, 2377681; 586050, 2377786; 586076, 2377826; 586251, 2377839; 586413, 2378001; 586751, 2378133; return to starting point.

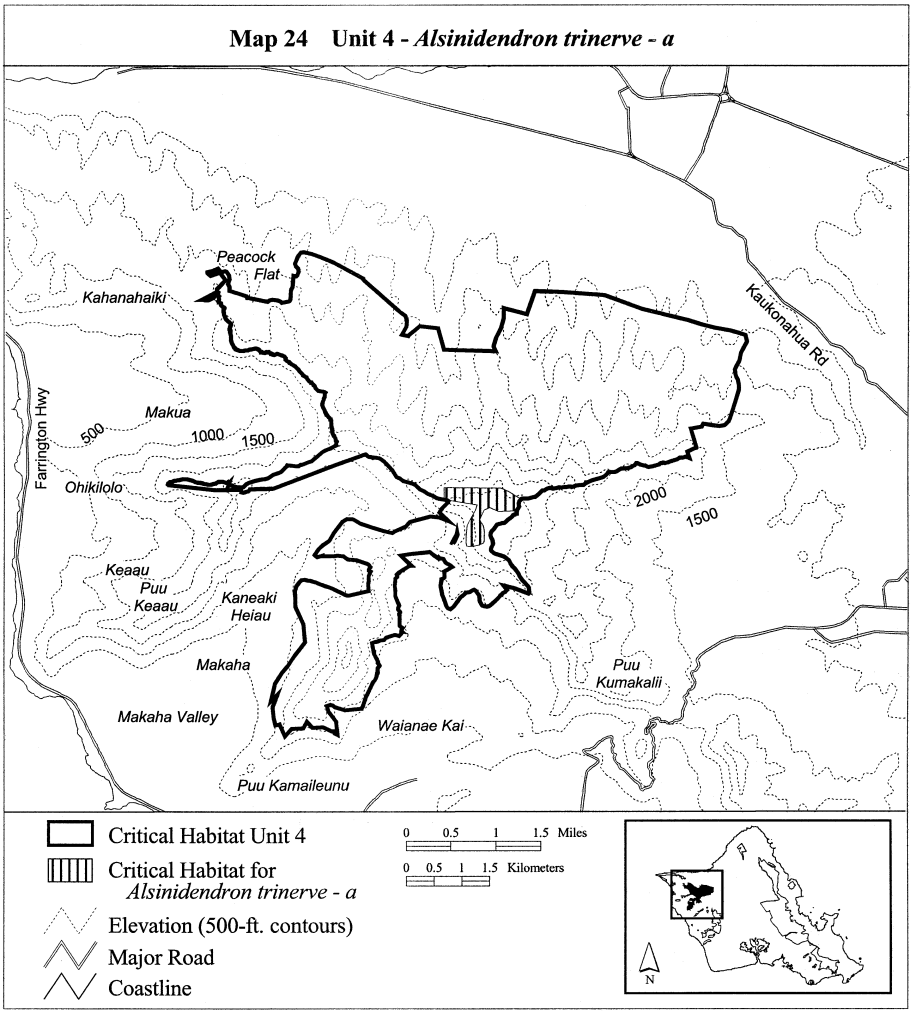
(ii) NOTE: Map 23 follows:



(24) Oahu 4—*Alsinidendron trinerve*—a (60 ha; 149 ac)

(i) Area consists of the following 40 boundary points: Start at 588752, 2378628; 588489, 2378617; 588334, 2378694; 588233, 2378647; 588153, 2378468; 588202, 2378374; 588233, 2378276; 588229, 2378073; 588222, 2378078; 588219, 2378044; 588144, 2378012; 588014, 2377985; 587916, 2377994; 587902, 2378173; 587902, 2378177; 587924, 2378356; 587992, 2378504; 588072, 2378629; 588108, 2378741; 587501, 2378835; 587501, 2379053; 588336, 2379045; 588528, 2379045; 588681, 2378969; 588828, 2378880; 588897, 2378847; 588887, 2378841; 588887, 2378840; 588862, 2378802; 588851, 2378772; 588851, 2378763; 588851, 2378746; 588855, 2378710; 588838, 2378677; 588825, 2378656; 588815, 2378615; 588815, 2378614; 588814, 2378597; 588767, 2378640; 588765, 2378640; return to starting point.

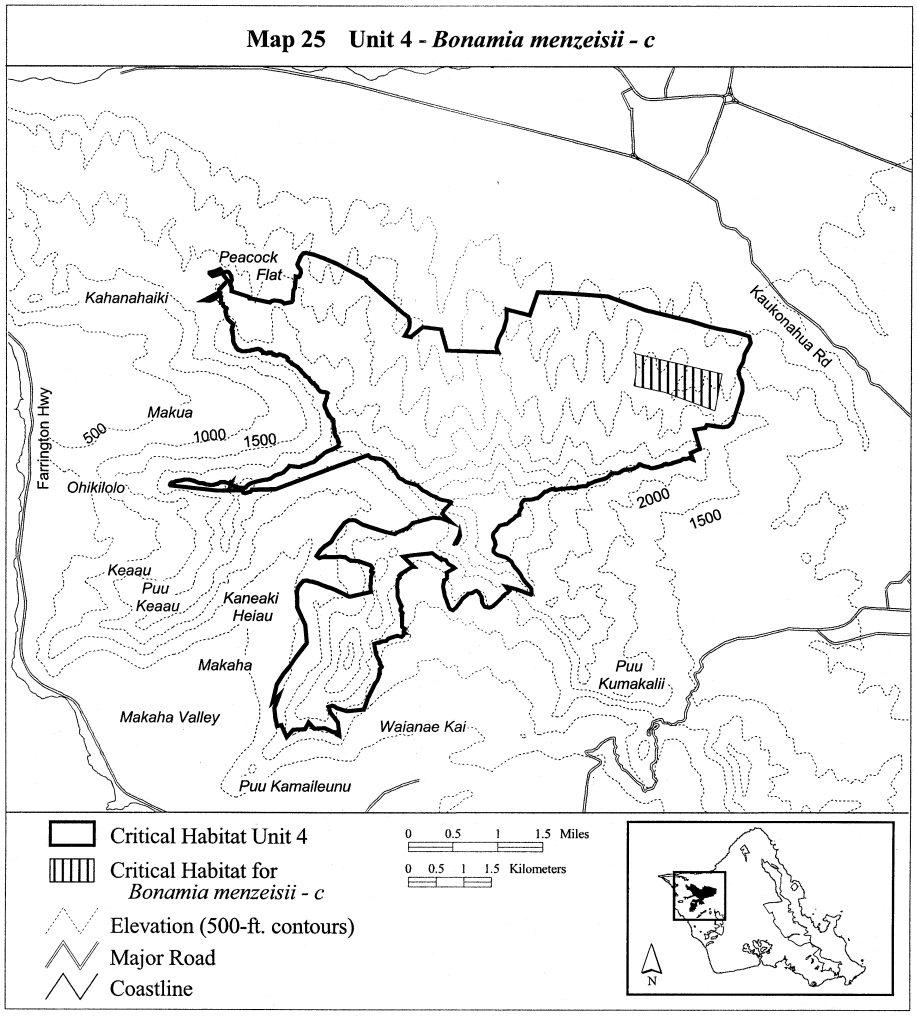
(ii) NOTE: Map 24 follows:



(25) Oahu 4—*Bonamia menziesii*—c (94 ha; 232 ac)

(i) Unit consists of the following 6 boundary points: Start at 592338, 2380469; 591431, 2380805; 590871, 2380923; 590910, 2381148; 590905, 2381506; 592466, 2381148; return to starting point.

(ii) NOTE: Map 25 follows:

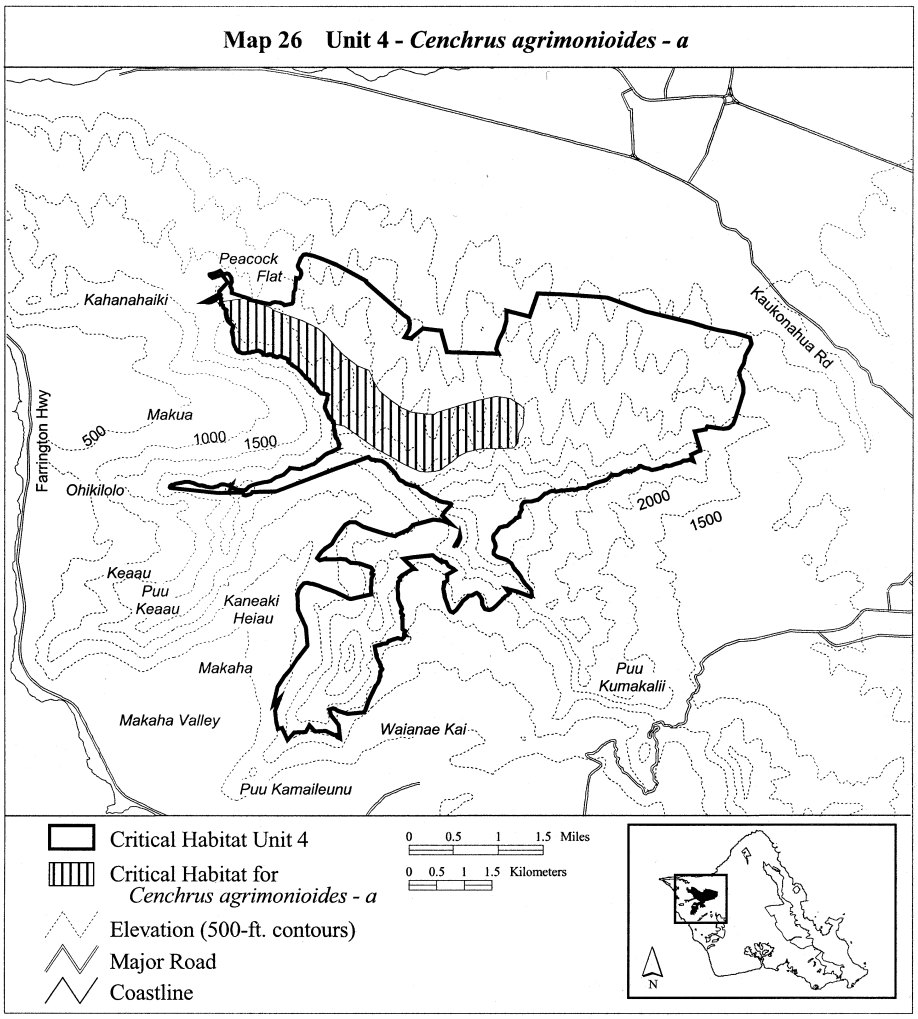


(26) Oahu 4—*Cenchrus agrimonioides*—a (529 ha; 1,306 ac)

(i) Unit consists of the following 80 boundary points: Start at 584380, 2381495; 584309, 2381544; 584196, 2381530; 584133, 2381606; 584005, 2381571; 583859, 2381553; 583750, 2381576; 583661, 2381729; 583665, 2382023; 583590, 2382108; 583548, 2382313; 583444, 2382478; 583845, 2382532; 583983, 2382483; 584310, 2382381; 584391, 2382319; 584901, 2382133; 585166, 2382001; 585317, 2381881; 585494, 2381655; 585649, 2381496; 585884, 2381318; 586097, 2381239; 586168, 2381079; 586162, 2381175; 586171, 2381058; 586289, 2380863; 586469, 2380706; 586684, 2380553; 586871, 2380472; 587093, 2380442; 587276, 2380438; 587334, 2380476; 587793, 2380622; 588077, 2380690; 588398, 2380767; 588651, 2380725; 588834, 2380606; 588896, 2380541; 588880, 2380231; 588800, 2380078; 588788, 2379921; 588712, 2379826; 588482, 2379822; 588260, 2379822; 588088, 2379810; 587881, 2379753; 587725, 2379680; 587593, 2379577; 587479, 2379489; 587406, 2379428; 587287, 2379401; 587130, 2379389; 587016, 2379397; 586817, 2379489; 586606,

2379600; 586605, 2379606; 586243, 2379810; 585639, 2380229; 585613, 2380224; 585480, 2380264; 585418, 2380357; 585368, 2380447; 585302, 2380567; 585354, 2380735; 585352, 2380808; 585224, 2380843; 585126, 2380959; 585063, 2380995; 585033, 2381030; 585027, 2381040; 585011, 2381059; 585004, 2381064; 584970, 2381105; 584845, 2381251; 584687, 2381354; 584639, 2381441; 584496, 2381498; 584403, 2381483; 584383, 2381494; return to starting point.

(ii) NOTE: Map 26 follows:

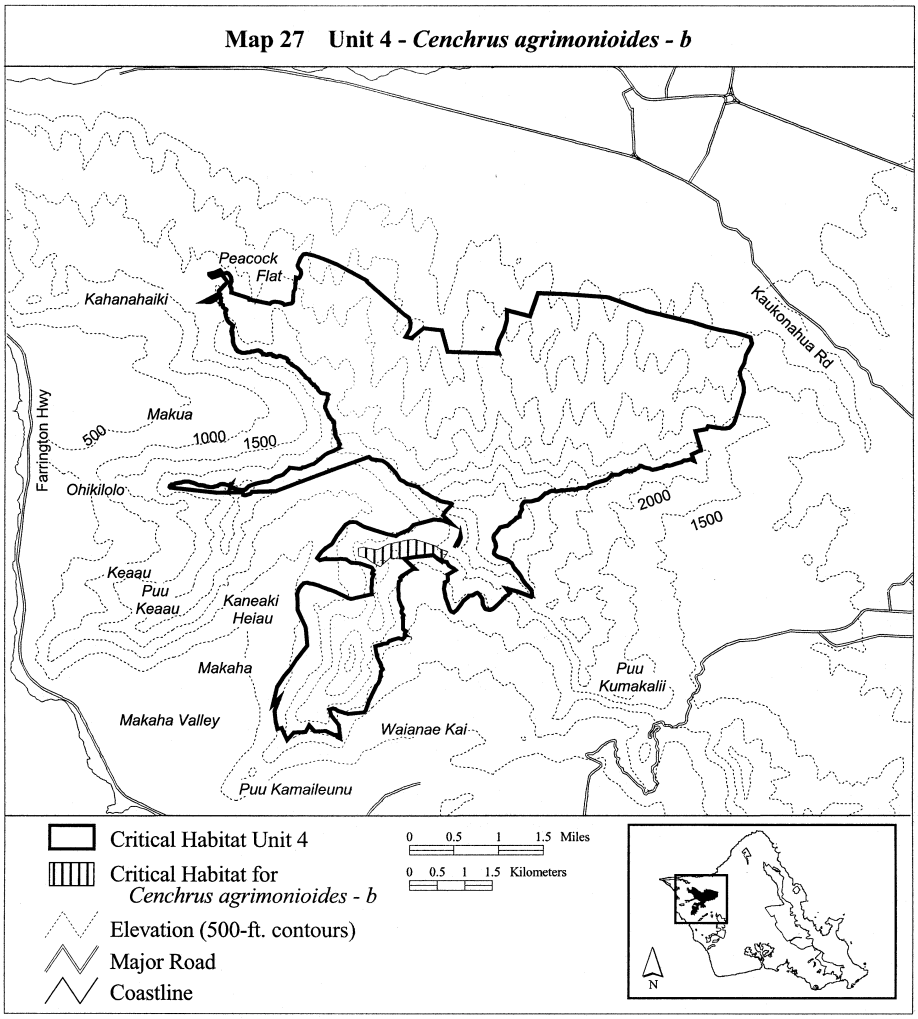


(27) Oahu 4—*Cenchrus agrimonioides*—b (40 ha; 99 ac)

(i) Unit consists of the following 23 boundary points: Start at 585892, 2378006; 585994, 2378031; 586109, 2378000; 586254, 2377981; 586430, 2378084; 586652, 2378126; 586778, 2378153; 586924, 2378161; 587115, 2378107; 587291, 2378046; 587356, 2378004; 587511, 2377943; 587402, 2377764; 587254, 2377883; 586893, 2377844; 586663,

2377808; 586470, 2377840; 586296, 2377671; 586162, 2377751; 586055, 2377824; 585921, 2377862; 585902, 2377863; 585897, 2377973; return to starting point.

(ii) NOTE: Map 27 follows:

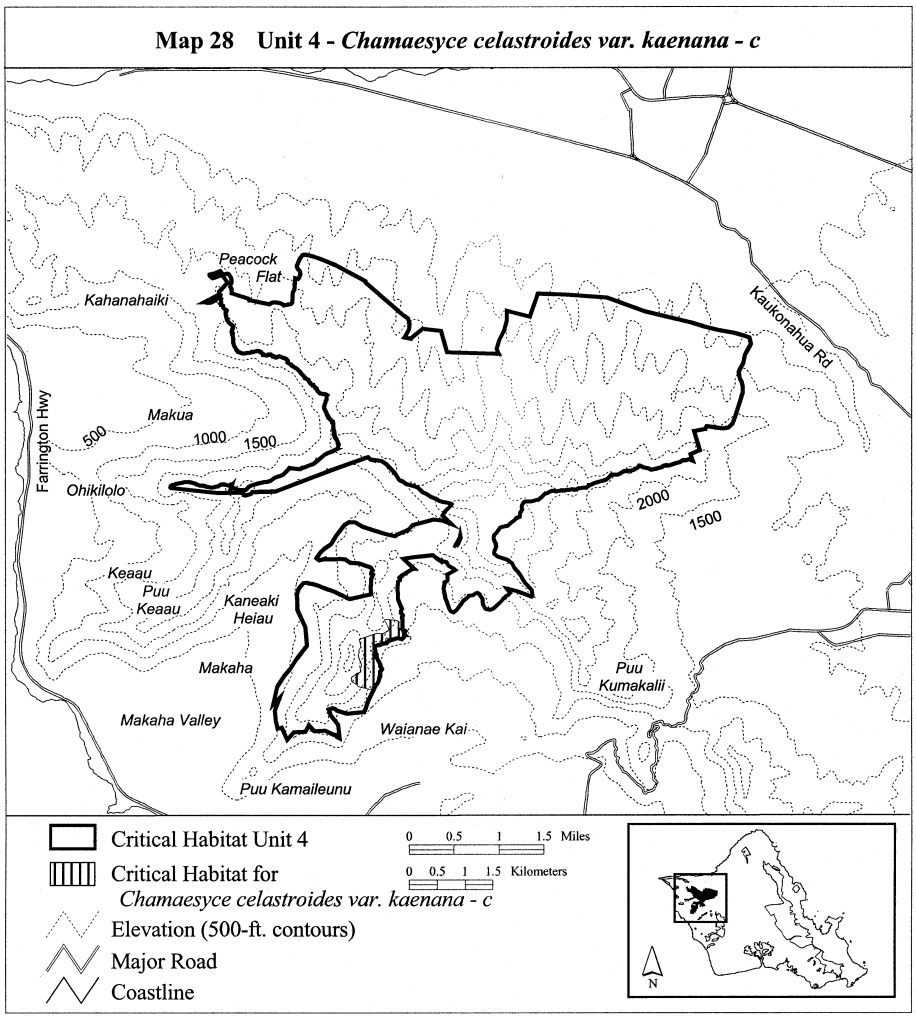


(28) Oahu 4—*Chamaesyce celastroides* var. *kaenana*—c (43 ha; 106 ac)

(i) Unit consists of the following 92 boundary points: Start at 586651, 2376680; 586644, 2376585; 586662, 2376562; 586667, 2376542; 586680, 2376519; 586696, 2376493; 586724, 2376470; 586726, 2376435; 586706, 2376405; 586669, 2376382; 586630, 2376383; 586563, 2376392; 586533, 2376380; 586508, 2376373; 586466, 2376373; 586443, 2376383; 586410, 2376382; 586403, 2376346; 586403, 2376327; 586364, 2376295; 586313, 2376302; 586251, 2376288; 586192, 2376262; 586184, 2376253; 586182, 2376218; 586178, 2376179; 586155, 2376159; 586182, 2376126; 586212, 2376096; 586237, 2376071; 586242,

2376022; 586270, 2375970; 586277, 2375925; 586291, 2375896; 586327, 2375856; 586343, 2375826; 586335, 2375810; 586302, 2375782; 586302, 2375752; 586309, 2375725; 586298, 2375700; 586281, 2375681; 586286, 2375646; 586277, 2375614; 586253, 2375556; 586226, 2375533; 586161, 2375490; 586104, 2375475; 586129, 2375453; 585970, 2375490; 585915, 2375515; 585884, 2375547; 585799, 2375607; 585799, 2375676; 585815, 2375693; 585841, 2375704; 585864, 2375723; 585878, 2375752; 585935, 2375768; 585960, 2375778; 585961, 2375806; 585960, 2375824; 585938, 2375854; 585965, 2375866; 585981, 2375888; 585970, 2375907; 585958, 2375933; 585926, 2376030; 585910, 2376082; 585935, 2376119; 585926, 2376156; 585935, 2376172; 585958, 2376221; 585951, 2376263; 585942, 2376308; 585937, 2376368; 586021, 2376392; 586166, 2376447; 586251, 2376479; 586302, 2376470; 586360, 2376466; 586406, 2376489; 586448, 2376512; 586459, 2376535; 586438, 2376601; 586415, 2376652; 586388, 2376699; 586388, 2376724; 586461, 2376724; 586537, 2376714; 586572, 2376710; 586623, 2376698; return to starting point.

(ii) NOTE: Map 28 follows:

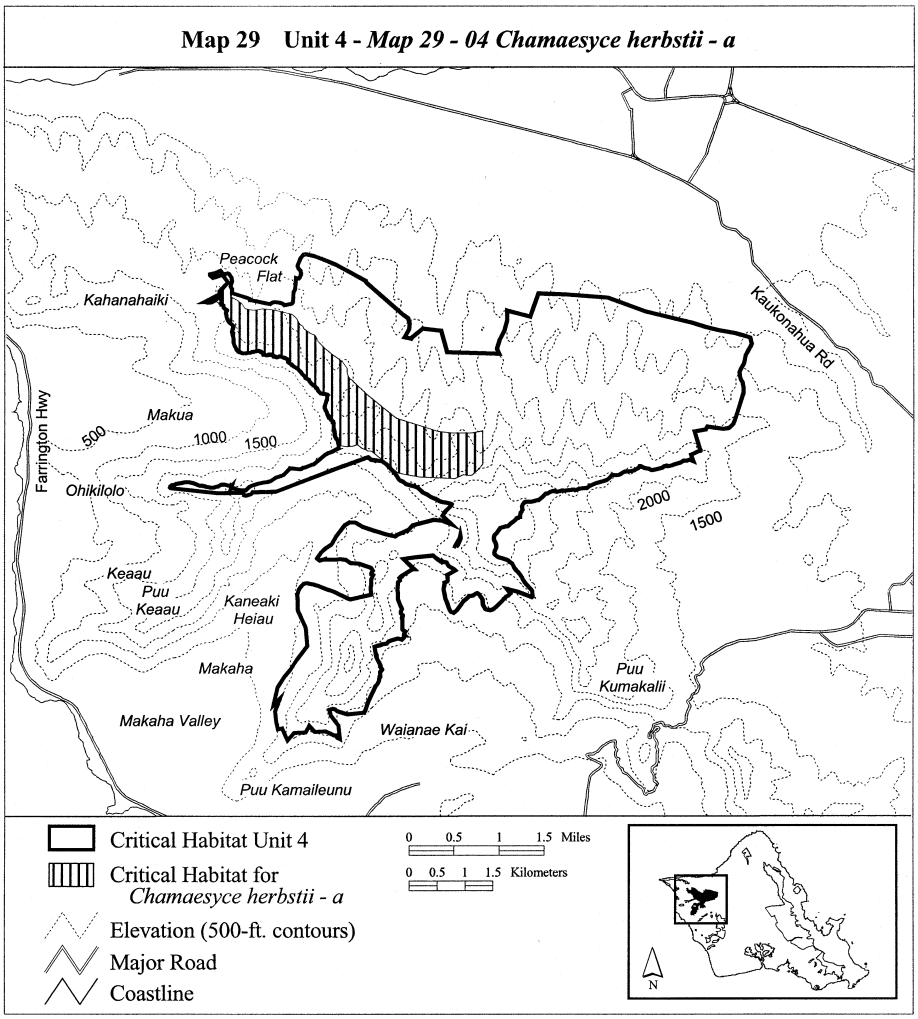


(29) Oahu 4—*Chamaesyce herbstii*—a (429 ha; 159 ac)

(i) Unit consists of the following 138 boundary points: Start at 583503, 2382342; 583526, 2382341; 583439, 2382511; 583414, 2382604; 583400, 2382650; 583402, 2382658; 583548, 2382823; 583450, 2382963; 583283, 2382906; 583228, 2382952; 583228, 2382973; 583336, 2382995; 583416, 2383033; 583475, 2382968; 583545, 2382989; 583567, 2382984; 583615, 2382909; 583626, 2382833; 583610, 2382785; 583594, 2382753; 583626, 2382704; 583626, 2382656; 583615, 2382564; 583734, 2382500; 583798, 2382440; 583863, 2382349; 583992, 2382327; 584046, 2382327; 584191, 2382354; 584397, 2382322; 584709, 2382257; 584779, 2382188; 584865, 2382064; 584903, 2382037; 584913, 2381999; 585043, 2381908; 585134, 2381865; 585177, 2381762; 585290, 2381644; 585425, 2381536; 585618, 2381396; 585710, 2381273; 585710, 2381176; 585753, 2381090; 585791, 2381066; 586087, 2380777; 586572, 2380389; 586597, 2380385; 586588, 2380370; 587339, 2380124; 587577, 2380104; 587951, 2380104; 588137, 2380136; 588137, 2380089; 588137, 2379981; 588137,

2379900; 588148, 2379825; 588148, 2379749; 588136, 2379529; 588072, 2379437; 587948, 2379340; 587899, 2379330; 587792, 2379346; 587652, 2379273; 587015, 2379301; 586634, 2379377; 586153, 2379776; 586086, 2379776; 585962, 2379836; 585897, 2379895; 585817, 2379862; 585704, 2379852; 585567, 2379876; 585549, 2379925; 585550, 2379928; 585550, 2379929; 585549, 2379929; 585549, 2379930; 585548, 2379930; 585547, 2379930; 585530, 2379977; 585483, 2380072; 585475, 2380117; 585474, 2380125; 585474, 2380128; 585472, 2380137; 585471, 2380141; 585460, 2380200; 585470, 2380286; 585383, 2380376; 585375, 2380388; 585365, 2380405; 585342, 2380472; 585303, 2380562; 585321, 2380656; 585324, 2380666; 585354, 2380756; 585347, 2380782; 585348, 2380789; 585348, 2380790; 585344, 2380798; 585344, 2380799; 585341, 2380800; 585340, 2380806; 585339, 2380804; 585215, 2380832; 585126, 2380952; 584993, 2381079; 584873, 2381226; 584724, 2381332; 584654, 2381380; 584630, 2381442; 584504, 2381496; 584422, 2381483; 584333, 2381519; 584325, 2381523; 584324, 2381523; 584317, 2381526; 584298, 2381533; 584261, 2381516; 584201, 2381520; 584133, 2381595; 584041, 2381579; 583935, 2381560; 583809, 2381569; 583723, 2381622; 583658, 2381762; 583655, 2381883; 583645, 2381972; 583657, 2382042; 583554, 2382141; 583527, 2382291; 583550, 2382324; 583523, 2382333; 583523, 2382334; 583522, 2382334; 583517, 2382336; 583508, 2382339; return to starting point.

(ii) NOTE: Map 29 follows:

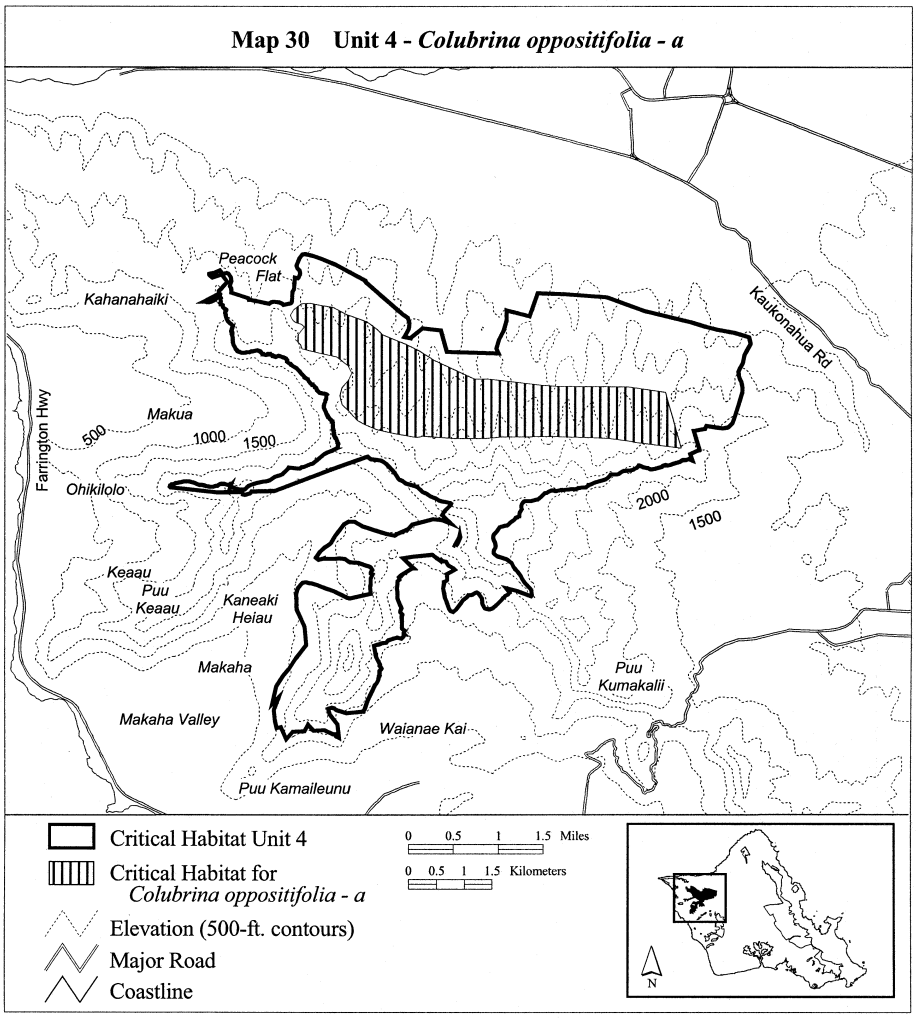


(30) Oahu 4—*Colubrina oppositifolia*—a (783 ha; 1,935 ac)

(i) Unit consists of the following 58 boundary points: Start at 588008, 2381069; 588057, 2381074; 588245, 2381074; 588704, 2381020; 589182, 2380963; 589495, 2380938; 590771, 2380923; 591455, 2380827; 591742, 2379816; 590859, 2379924; 590856, 2379925; 590854, 2379936; 590431, 2379992; 589977, 2380011; 589432, 2380031; 588699, 2380021; 588491, 2380021; 588192, 2379992; 587883, 2379987; 587661, 2379987; 587047, 2380034; 587048, 2380026; 586956, 2380011; 586559, 2380084; 586255, 2380156; 586047, 2380238; 585907, 2380320; 585773, 2380460; 585624, 2380620; 585590, 2380760; 585624, 2380909; 585744, 2381049; 585807, 2381170; 585735, 2381320; 585532, 2381474; 585218, 2381547; 584909, 2381619; 584875, 2381701; 584827, 2381745; 584837, 2381860; 584924, 2381976; 584948, 2382020; 584895, 2382063; 584793, 2382092; 584730, 2382140; 584701, 2382227; 584764, 2382329; 584899, 2382435; 585054, 2382445; 585237, 2382411; 585469, 2382367; 585706, 2382247; 586068, 2382107; 586270, 2381962; 586353, 2381875; 586779,

2381699; 587016, 2381581; 587278, 2381406; return to starting point.

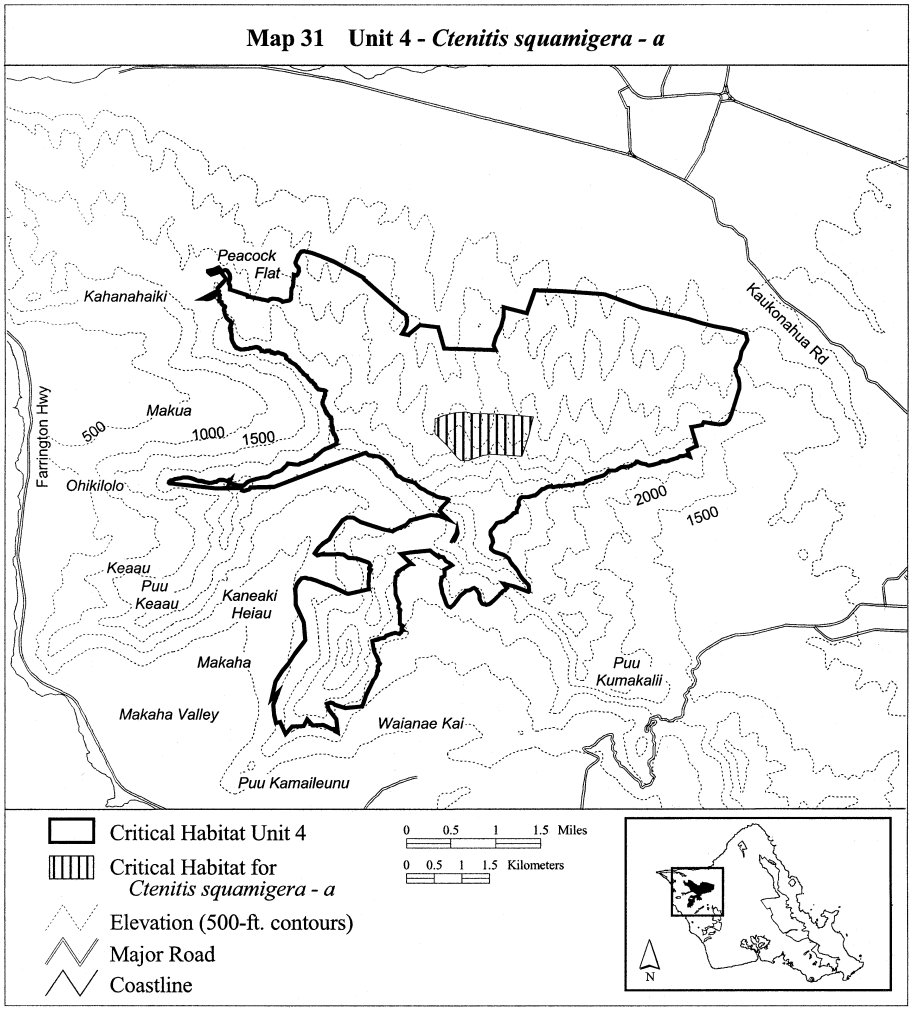
(ii) NOTE: Map 30 follows:



(31) Oahu 4—*Ctenitis squamigera*—a (120 ha; 298 ac)

(i) Unit consists of the following 22 boundary points: Start at 588909, 2379603; 588766, 2379609; 588486, 2379632; 588342, 2379636; 588233, 2379618; 588055, 2379564; 587942, 2379523; 587815, 2379523; 587752, 2379573; 587549, 2379813; 587345, 2380007; 587345, 2380130; 587341, 2380284; 587504, 2380347; 587726, 2380397; 587907, 2380406; 588016, 2380383; 588396, 2380370; 588613, 2380356; 588885, 2380333; 589113, 2380315; 589032, 2379960; return to starting point.

(ii) NOTE: Map 31 follows:

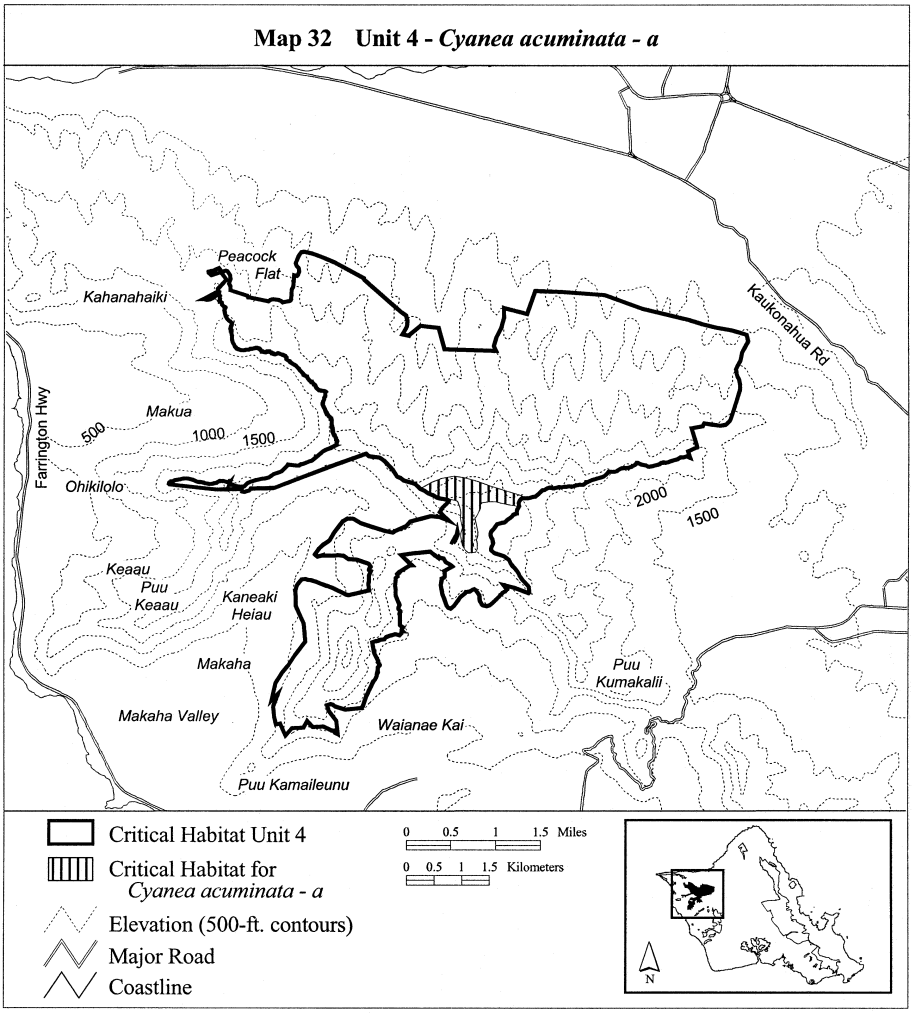


(32) Oahu 4—*Cyanea acuminata*—a (83 ha; 205 ac)

(i) Unit consists of the following 64 boundary points: Start at 588849, 2378698; 588770, 2378723; 588704, 2378726; 588538, 2378764; 588421, 2378792; 588320, 2378789; 588186, 2378769; 588157, 2378735; 588154, 2378666; 588120, 2378592; 588085, 2378517; 588062, 2378488; 588079, 2378402; 588091, 2378339; 588111, 2378245; 588111, 2378176; 588085, 2378090; 588102, 2378038; 588105, 2377972; 588105, 2377921; 588079, 2377875; 588071, 2377872; 588014, 2377866; 587936, 2377866; 587882, 2377912; 587830, 2377995; 587810, 2378079; 587804, 2378147; 587804, 2378216; 587830, 2378316; 587816, 2378388; 587799, 2378500; 587804, 2378594; 587790, 2378695; 587736, 2378798; 587675, 2378815; 587584, 2378835; 587437, 2378844; 587372, 2378861; 587311, 2378898; 587225, 2378941; 587154, 2378981; 587111, 2379036; 587108, 2379047; 587283, 2379145; 587472, 2379222; 587687, 2379257; 587856, 2379228; 588097, 2379168; 588340, 2379070; 588581, 2378999; 588879, 2378910; 588987, 2378856; 588910, 2378852; 588910, 2378851; 588899,

2378848; 588898, 2378848; 588887, 2378841; 588887, 2378840; 588862, 2378802; 588851, 2378772; 588851, 2378763; 588851, 2378746; 588855, 2378710; return to starting point.

(ii) NOTE: Map 32 follows:

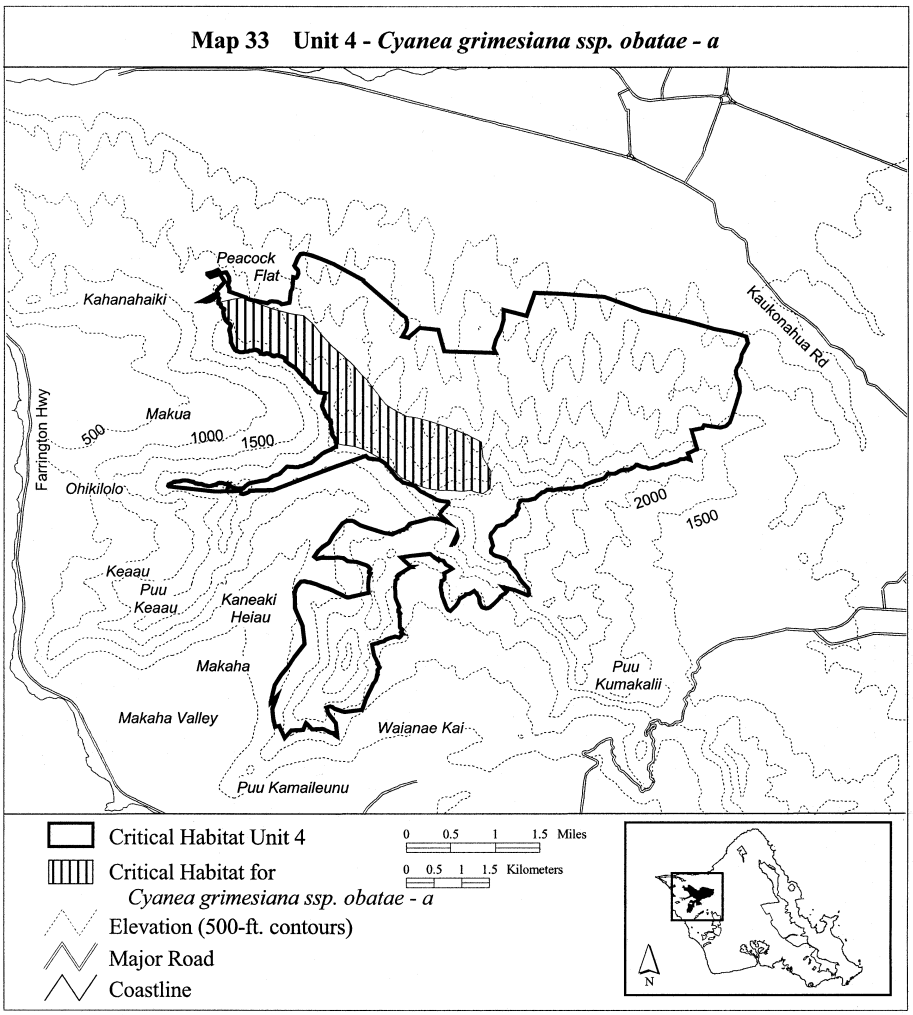


(33) Oahu 4—*Cyanea grimesiana* ssp. *obatae*—a (522 ha; 1,291 ac)

(i) Unit consists of the following 102 boundary points: Start at 584251, 2381509; 584192, 2381525; 584170, 2381549; 584167, 2381553; 584150, 2381572; 584148, 2381573; 584141, 2381581; 584117, 2381595; 583876, 2381561; 583789, 2381568; 583745, 2381584; 583733, 2381605; 583700, 2381659; 583663, 2381752; 583647, 2381925; 583667, 2382028; 583560, 2382137; 583530, 2382267; 583557, 2382327; 583487, 2382367; 583487, 2382400; 583454, 2382430; 583451, 2382446; 583505, 2382460; 583690, 2382504; 583864, 2382531; 584038, 2382468; 584255, 2382393; 584421, 2382326; 584745, 2382247; 584970,

2382204; 585143, 2382054; 585301, 2381856; 585475, 2381651; 585648, 2381505; 585857, 2381316; 586011, 2381138; 586134, 2381024; 586124, 2381013; 586441, 2380602; 586583, 2380511; 586836, 2380381; 587002, 2380353; 587250, 2380290; 587554, 2380188; 587893, 2380065; 588177, 2379919; 588201, 2379631; 588350, 2379387; 588346, 2379296; 588338, 2379063; 588204, 2378976; 588097, 2378996; 587975, 2379035; 587841, 2379020; 587604, 2379035; 587411, 2379035; 587218, 2379059; 587008, 2379134; 586724, 2379276; 586535, 2379469; 586365, 2379608; 586073, 2379769; 585884, 2379832; 585659, 2379860; 585562, 2379890; 585549, 2379924; 585550, 2379928; 585550, 2379929; 585549, 2379929; 585549, 2379930; 585548, 2379930; 585547, 2379930; 585478, 2380107; 585457, 2380302; 585395, 2380362; 585299, 2380563; 585336, 2380704; 585338, 2380712; 585339, 2380712; 585340, 2380721; 585345, 2380739; 585346, 2380751; 585346, 2380754; 585346, 2380756; 585350, 2380801; 585223, 2380827; 585174, 2380878; 585167, 2380888; 585157, 2380904; 585146, 2380918; 585118, 2380959; 585065, 2380985; 585023, 2381051; 584965, 2381104; 584807, 2381274; 584709, 2381333; 584646, 2381382; 584631, 2381444; 584500, 2381495; 584452, 2381482; 584301, 2381534; return to starting point.

(ii) NOTE: Map 33 follows:

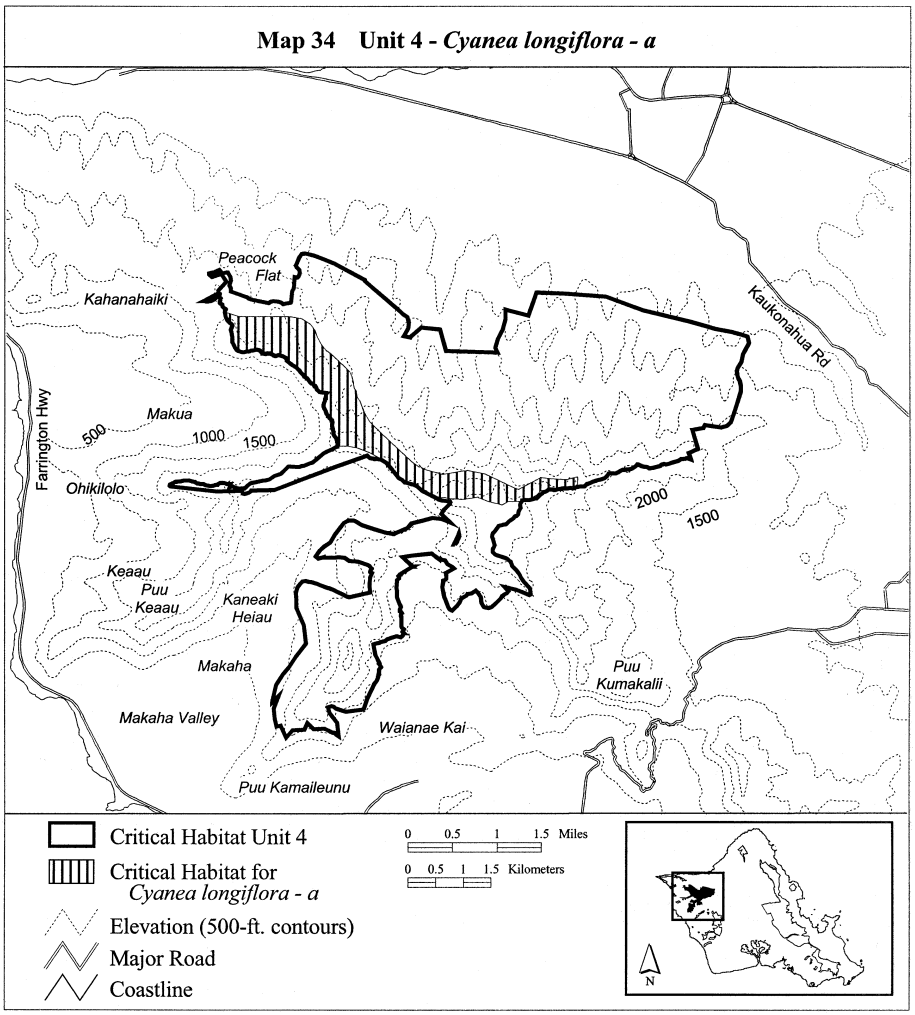


(34) Oahu 4—*Cyanea longiflora*+—a (362 ha; 896 ac)

(i) Unit consists of the following 163 boundary points: Start at 589322, 2379008; 589227, 2379030; 589144, 2378934; 588984, 2378856; 588910, 2378852; 588910, 2378851; 588899, 2378848; 588898, 2378848; 588887, 2378841; 588887, 2378840; 588866, 2378808; 588853, 2378830; 588638, 2378825; 588557, 2378780; 588549, 2378779; 588522, 2378764; 588468, 2378783; 588294, 2378820; 588097, 2378901; 588099, 2378909; 588092, 2378911; 588079, 2378910; 587994, 2378891; 587795, 2378868; 587551, 2378882; 587485, 2378896; 587399, 2378901; 587322, 2378929; 587266, 2378941; 587232, 2378962; 587081, 2379017; 586980, 2379113; 586772, 2379174; 586781, 2379184; 586778, 2379185; 586637, 2379321; 586447, 2379529; 586294, 2379624; 586135, 2379719; 585918, 2379796; 585737, 2379832; 585556, 2379836; 585574, 2379901; 585531, 2379987; 585481, 2380116; 585466, 2380282; 585337, 2380490; 585308, 2380573; 585327, 2380678; 585338, 2380712; 585339, 2380712; 585344, 2380738; 585346, 2380754; 585345, 2380767; 585345, 2380777; 585347,

2380785; 585348, 2380789; 585348, 2380790; 585352, 2380813; 585215, 2380831; 585132, 2380968; 585086, 2380996; 585028, 2381065; 584964, 2381101; 584881, 2381216; 584729, 2381329; 584626, 2381453; 584497, 2381510; 584462, 2381482; 584344, 2381514; 584325, 2381523; 584324, 2381523; 584310, 2381528; 584309, 2381528; 584295, 2381527; 584259, 2381537; 584134, 2381603; 584046, 2381591; 583951, 2381568; 583888, 2381564; 583811, 2381577; 583728, 2381611; 583670, 2381715; 583652, 2381855; 583660, 2382042; 583584, 2382099; 583545, 2382178; 583530, 2382274; 583616, 2382242; 583770, 2382188; 583933, 2382192; 584155, 2382192; 584490, 2382188; 584676, 2382188; 584911, 2382156; 585065, 2382052; 585141, 2381944; 585178, 2381835; 585254, 2381699; 585340, 2381577; 585435, 2381519; 585630, 2381329; 585770, 2381193; 585806, 2381121; 585833, 2381017; 585847, 2380890; 585888, 2380845; 585910, 2380736; 585955, 2380664; 586023, 2380469; 586133, 2380279; 586136, 2380279; 586407, 2380013; 586900, 2379542; 587025, 2379450; 587040, 2379467; 587126, 2379412; 587224, 2379382; 587447, 2379321; 587646, 2379357; 587816, 2379378; 587895, 2379391; 588218, 2379331; 588742, 2379076; 588826, 2379041; 589211, 2379253; 589214, 2379255; 589215, 2379255; 589224, 2379260; 589280, 2379255; 589300, 2379255; 589347, 2379249; 589636, 2379223; 589701, 2379230; 589887, 2379275; 589886, 2379260; 589892, 2379260; 589892, 2379189; 589892, 2379098; 589882, 2379095; 589882, 2379089; 589881, 2379089; 589839, 2379075; 589839, 2379074; 589806, 2379068; 589790, 2379069; 589787, 2379069; 589747, 2379069; 589705, 2379066; 589675, 2379063; 589616, 2379059; 589604, 2379058; 589557, 2379052; 589519, 2379042; 589496, 2379035; 589462, 2379034; 589441, 2379042; 589424, 2379047; 589391, 2379048; 589370, 2379041; 589369, 2379041; 589348, 2379025; 589324, 2379009; return to starting point.

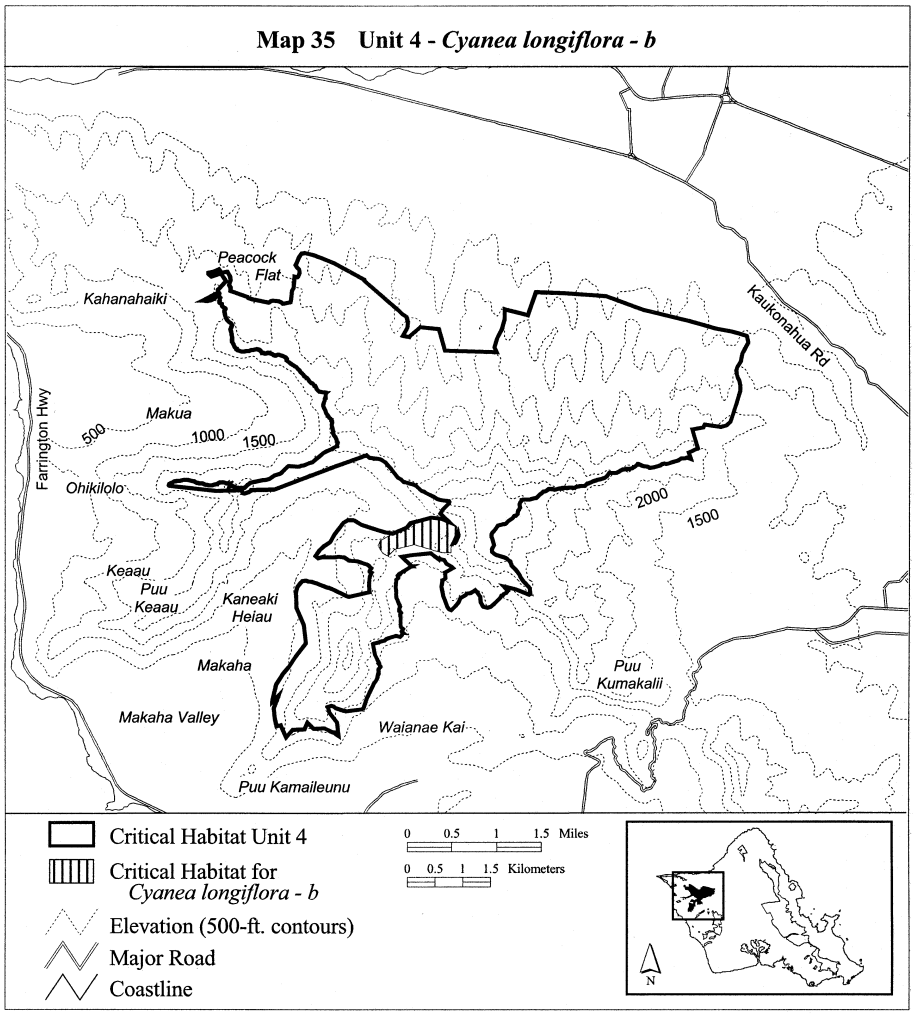
(ii) NOTE: Map 34 follows:



(35) Oahu 4—*Cyanea longiflora*—b (61 ha; 150 ac)

(i) Unit consists of the following 24 boundary points: Start at 586477, 2377825; 586452, 2377842; 586384, 2377878; 586334, 2377946; 586298, 2378018; 586330, 2378113; 586610, 2378253; 586813, 2378347; 586800, 2378330; 586827, 2378353; 586882, 2378430; 587085, 2378484; 587257, 2378529; 587429, 2378511; 587659, 2378421; 587718, 2378371; 587759, 2378299; 587727, 2378199; 587655, 2378068; 587610, 2377973; 587610, 2377887; 587449, 2377887; 586953, 2378038; 586608, 2377955; return to starting point.

(ii) NOTE: Map 35 follows:

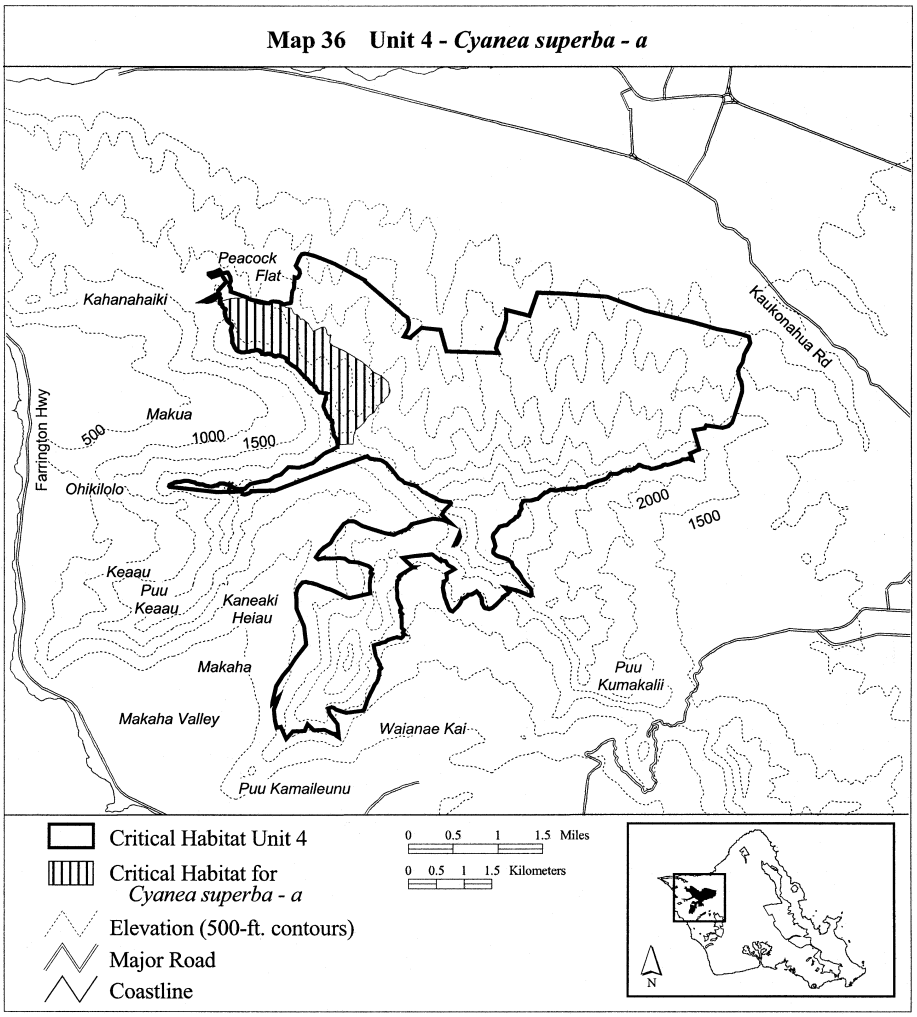


(36) Oahu 4—*Cyanea superba*—a (302 ha; 747 ac)

(i) Unit consists of the following 142 boundary points: Start at 583837, 2381543; 583777, 2381576; 583739, 2381579; 583731, 2381587; 583731, 2381589; 583658, 2381724; 583662, 2381803; 583646, 2381892; 583638, 2381956; 583650, 2381985; 583658, 2382035; 583567, 2382120; 583523, 2382284; 583540, 2382309; 583544, 2382321; 583480, 2382363; 583480, 2382413; 583434, 2382429; 583434, 2382473; 583434, 2382474; 583642, 2382522; 583867, 2382536; 584015, 2382467; 584112, 2382425; 584164, 2382418; 584268, 2382405; 584352, 2382460; 584393, 2382474; 584490, 2382463; 584552, 2382432; 584617, 2382373; 584631, 2382363; 584687, 2382353; 584718, 2382349; 584745, 2382297; 584766, 2382246; 584814, 2382239; 584832, 2382225; 584870, 2382177; 584880, 2382142; 584922, 2382156; 584977, 2382111; 585017, 2382080; 585022, 2382069; 585179, 2382021; 585084, 2381969; 585111, 2381938; 585129, 2381938; 585167, 2381952; 585212, 2381969; 585281, 2382017; 585326, 2382011; 585353, 2381955; 585357, 2381883; 585391, 2381855; 585433,

2381862; 585412, 2381779; 585409, 2381727; 585436, 2381703; 585464, 2381683; 585462, 2381673; 585661, 2381576; 585844, 2381475; 585999, 2381368; 586120, 2381258; 586210, 2381178; 586338, 2381120; 586462, 2381009; 586497, 2380847; 586486, 2380809; 586462, 2380757; 586393, 2380691; 586386, 2380643; 586310, 2380595; 586248, 2380522; 586213, 2381753; 586127, 2381705; 586086, 2380367; 586051, 2380294; 585971, 2380217; 585926, 2380170; 585870, 2380121; 585843, 2380028; 585836, 2379883; 585791, 2379883; 585587, 2379869; 585538, 2379948; 585531, 2379962; 585531, 2379963; 585523, 2379982; 585522, 2379982; 585518, 2379989; 585515, 2379997; 585500, 2380019; 585475, 2380122; 585474, 2380125; 585474, 2380128; 585472, 2380135; 585461, 2380273; 585440, 2380319; 585405, 2380348; 585366, 2381717; 585320, 2380510; 585299, 2380563; 585334, 2380698; 585338, 2380712; 585339, 2380712; 585342, 2380729; 585347, 2380750; 585347, 2380785; 585348, 2380789; 585348, 2380790; 585347, 2380792; 585347, 2380802; 585212, 2380834; 585116, 2380960; 585069, 2380992; 585025, 2381174; 584900, 2381178; 584809, 2381270; 584709, 2381331; 584646, 2381394; 584629, 2381439; 584609, 2381458; 584546, 2381479; 584484, 2381495; 584447, 2381479; 584418, 2381479; 584387, 2381500; 584349, 2381516; 584326, 2381533; 584295, 2381535; 584250, 2381516; 584202, 2381527; 584180, 2381542; 584177, 2381551; 584140, 2381589; 584073, 2381589; 583961, 2381562; 583916, 2381554; 583853, 2381551; 583839, 2381543; return to starting point.

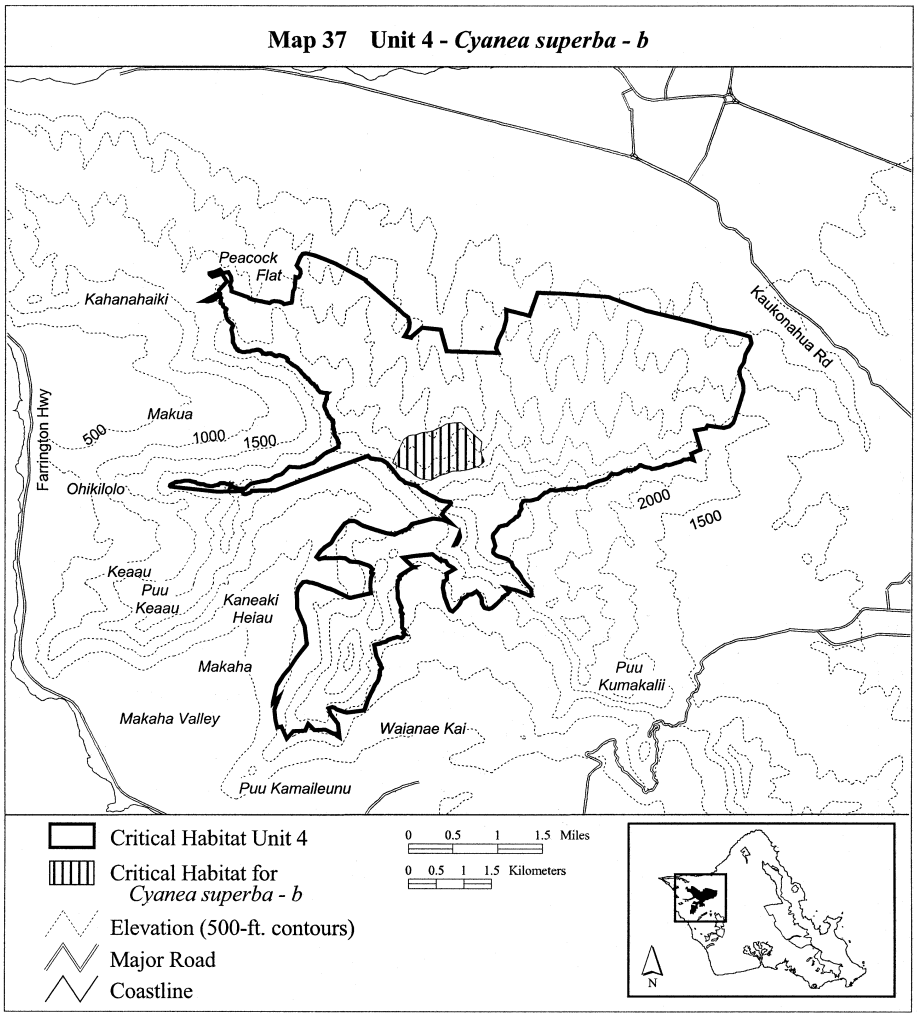
(ii) NOTE: Map 36 follows:



(37) Oahu 4—*Cyanea superba*—b (116 ha; 286 ac)

(i) Unit consists of the following 36 boundary points: Start at 587772, 2380274; 588060, 2379997; 588137, 2379927; 588144, 2379905; 588122, 2379765; 588141, 2379680; 588174, 2379610; 588189, 2379551; 588092, 2379477; 587911, 2379415; 587741, 2379393; 587627, 2379389; 587505, 2379341; 587424, 2379315; 587369, 2379297; 587232, 2379216; 587041, 2379249; 586926, 2379308; 586871, 2379370; 586797, 2379411; 586639, 2379459; 586532, 2379536; 586565, 2379636; 586639, 2379776; 586709, 2379898; 586731, 2379961; 586824, 2380031; 586879, 2380049; 586942, 2380049; 587082, 2380086; 587186, 2380101; 587285, 2380123; 587326, 2380156; 587411, 2380193; 587503, 2380244; 587639, 2380267; return to starting point.

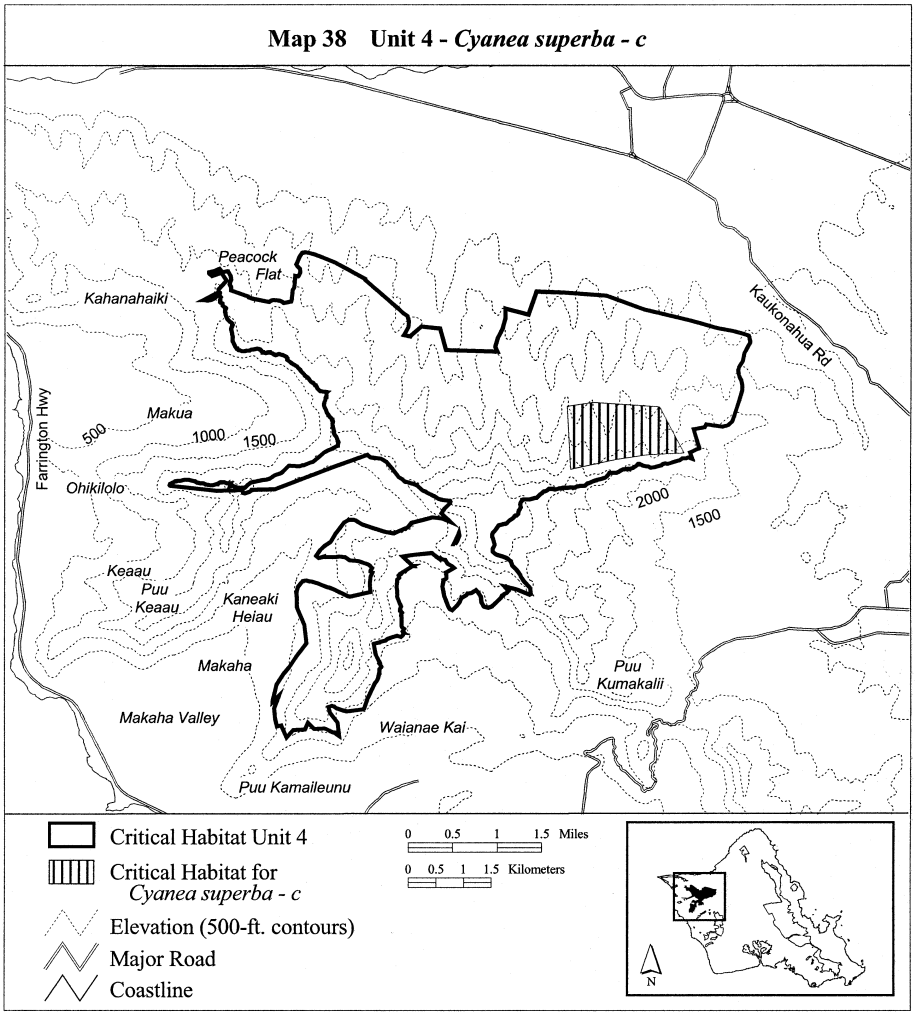
(ii) NOTE: Map 37 follows:



(38) Oahu 4—*Cyanea superba*—c (184 ha; 455 ac)

(i) Unit consists of the following 7 boundary points: Start at 589757, 2379400; 589699, 2380542; 590166, 2380613; 591361, 2380532; 591790, 2379700; 591135, 2379667; 590578, 2379579; return to starting point.

(ii) NOTE: Map 38 follows:

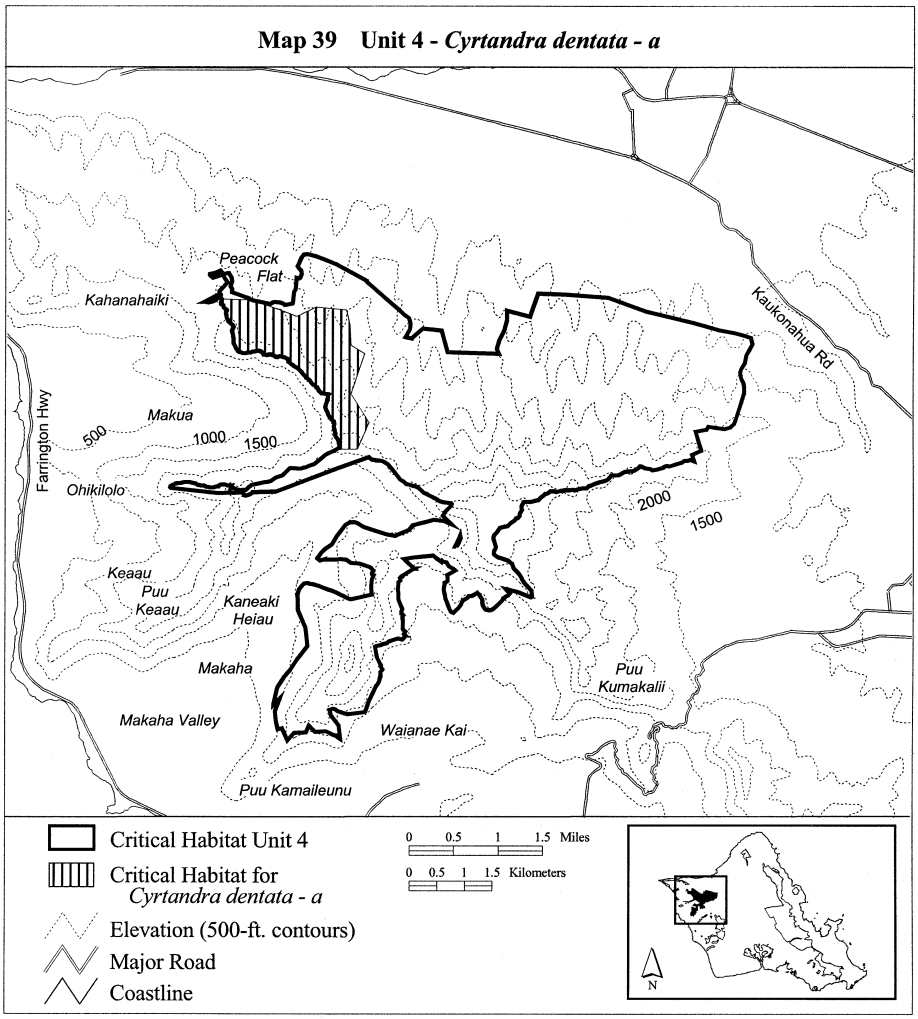


(39) Oahu 4—*Cyrtandra dentata*—a (306 ha; 757 ac)

(i) Unit consists of the following 208 boundary points: Start at 584020, 2381575; 583738, 2381581; 583730, 2381588; 583709, 2381612; 583707, 2381614; 583694, 2381639; 583685, 2381655; 583672, 2381685; 583659, 2381711; 583652, 2381731; 583651, 2381742; 583651, 2381757; 583651, 2381773; 583651, 2381774; 583651, 2381789; 583651, 2381805; 583651, 2381806; 583649, 2381820; 583644, 2381847; 583642, 2381874; 583639, 2381896; 583638, 2381897; 583634, 2381907; 583631, 2381919; 583629, 2381934; 583630, 2381951; 583633, 2381969; 583638, 2381979; 583645, 2381993; 583645, 2381994; 583649, 2382013; 583649, 2382018; 583648, 2382029; 583647, 2382030; 583641, 2382045; 583640, 2382045; 583626, 2382059; 583625, 2382059; 583610, 2382073; 583590, 2382091; 583570, 2382107; 583561, 2382120; 583552, 2382135; 583546, 2382153; 583536, 2382180; 583529, 2382214; 583523, 2382238; 583523, 2382239; 583518, 2382254; 583517, 2382264; 583517, 2382276; 583518, 2382287; 583521, 2382299; 583528, 2382305; 583535, 2382312; 583535,

2382313; 583535, 2382319; 583531, 2382326; 583523, 2382334; 583522, 2382334; 583511, 2382337; 583498, 2382345; 583497, 2382345; 583486, 2382351; 583477, 2382362; 583474, 2382370; 583475, 2382383; 583475, 2382397; 583474, 2382404; 583474, 2382405; 583469, 2382411; 583468, 2382411; 583457, 2382416; 583443, 2382421; 583435, 2382424; 583430, 2382430; 583429, 2382440; 583431, 2382460; 583433, 2382477; 583433, 2382478; 583431, 2382497; 583428, 2382521; 583969, 2382511; 584493, 2382321; 584788, 2382210; 585130, 2382381; 585675, 2382326; 585742, 2382055; 585760, 2381692; 586008, 2381531; 585763, 2380810; 586087, 2380293; 585882, 2379812; 585591, 2379807; 585555, 2379900; 585548, 2379922; 585550, 2379928; 585550, 2379929; 585549, 2379929; 585549, 2379930; 585548, 2379930; 585547, 2379930; 585546, 2379929; 585545, 2379931; 585539, 2379943; 585531, 2379963; 585523, 2379982; 585476, 2380102; 585476, 2380103; 585474, 2380125; 585474, 2380128; 585472, 2380137; 585468, 2380149; 585465, 2380160; 585461, 2380173; 585457, 2380185; 585456, 2380203; 585456, 2380223; 585459, 2380252; 585459, 2380269; 585456, 2380281; 585451, 2380295; 585443, 2380310; 585430, 2380325; 585430, 2380326; 585408, 2380344; 585393, 2380361; 585375, 2380388; 585364, 2380407; 585353, 2380428; 585342, 2380452; 585330, 2380478; 585322, 2380497; 585318, 2380512; 585308, 2380533; 585299, 2380553; 585297, 2380570; 585300, 2380580; 585303, 2380592; 585309, 2380613; 585315, 2380636; 585320, 2380654; 585379, 2380773; 585345, 2380796; 585344, 2380798; 585344, 2380799; 585338, 2380802; 585335, 2380803; 585130, 2380939; 585119, 2380952; 585119, 2380953; 585107, 2380962; 585106, 2380963; 585097, 2380967; 585034, 2381029; 585027, 2381040; 585011, 2381059; 584993, 2381074; 584993, 2381075; 584973, 2381090; 584971, 2381091; 584909, 2381153; 584905, 2381157; 584891, 2381175; 584867, 2381205; 584852, 2381221; 584844, 2381230; 584813, 2381261; 584796, 2381273; 584778, 2381284; 584774, 2381287; 584771, 2381289; 584718, 2381341; 584638, 2381397; 584636, 2381408; 584633, 2381420; 584628, 2381430; 584618, 2381442; 584617, 2381442; 584601, 2381452; 584581, 2381462; 584562, 2381467; 584539, 2381475; 584519, 2381483; 584494, 2381489; 584478, 2381486; 584461, 2381479; 584387, 2381491; 584383, 2381494; 584357, 2381507; 584350, 2381511; 584325, 2381523; 584324, 2381523; 584310, 2381528; 584309, 2381528; 584291, 2381527; 584290, 2381527; 584281, 2381521; 584275, 2381516; 584266, 2381511; 584260, 2381512; 584167, 2381553; 584150, 2381572; 584130, 2381584; 584129, 2381584; 584104, 2381586; 584065, 2381583; 584021, 2381575; return to starting point.

(ii) NOTE: Map 39 follows:

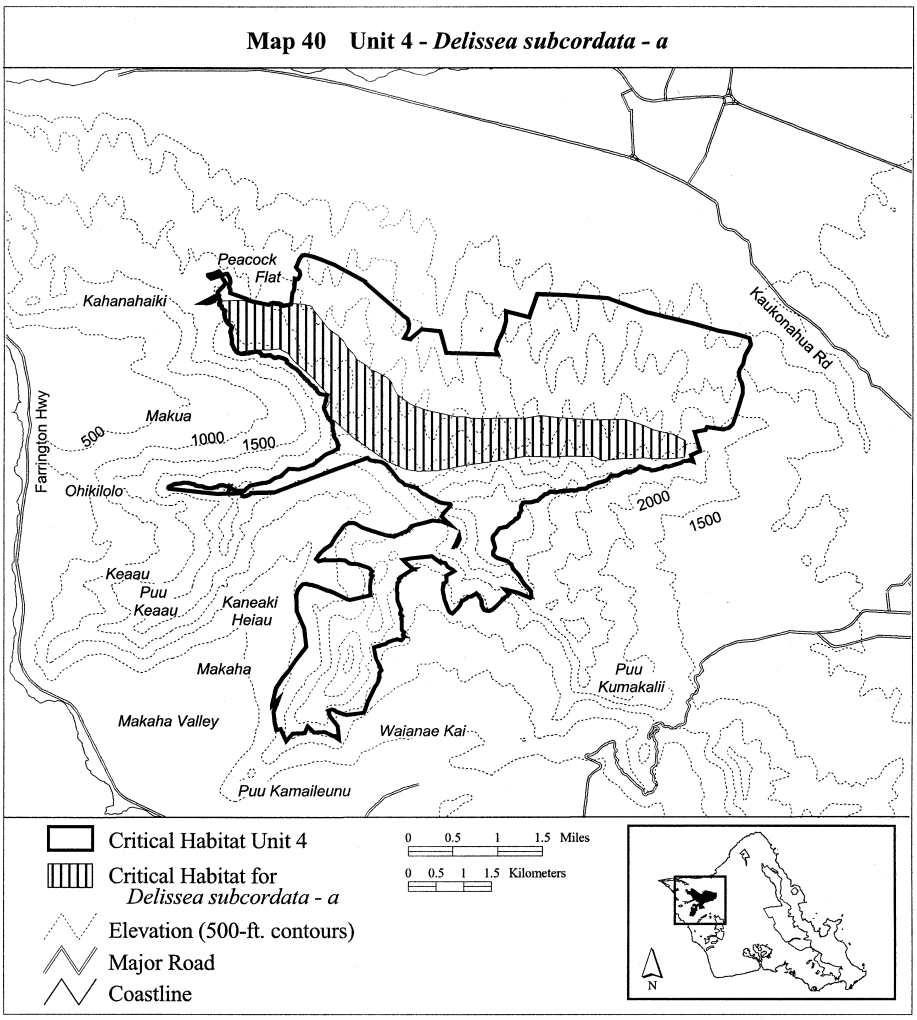


(40) Oahu 4—*Delissea subcordata*—a (763 ha; 1,887 ac)

(i) Unit consists of the following 169 boundary points: Start at 585089, 2382409; 585090, 2382377; 585381, 2382000; 585498, 2381921; 585544, 2381879; 585651, 2381776; 585704, 2381680; 585829, 2381548; 585893, 2381445; 586067, 2381331; 586131, 2381264; 586262, 2381214; 586430, 2381114; 586518, 2381036; 586524, 2380998; 586623, 2380811; 586860, 2380636; 587154, 2380527; 587552, 2380437; 587670, 2380401; 587841, 2380404; 587950, 2380380; 588168, 2380376; 588504, 2380385; 588518, 2380385; 588684, 2380385; 588935, 2380385; 589191, 2380423; 589521, 2380390; 589966, 2380357; 590137, 2380342; 590715, 2380357; 591046, 2380243; 591241, 2380167; 591582, 2380082; 591804, 2379973; 591809, 2379855; 591780, 2379675; 591681, 2379656; 591430, 2379637; 591056, 2379651; 590810, 2379646; 590667, 2379646; 590298, 2379608; 590156, 2379679; 589701, 2379694; 589578, 2379689; 589464, 2379675; 589147, 2379679; 588923, 2379692; 588518, 2379622; 588234, 2379585; 587925, 2379537; 587868, 2379523; 587792, 2379518; 587636,

2379480; 587352, 2379424; 586987, 2379414; 586774, 2379452; 586442, 2379599; 586149, 2379798; 585912, 2379968; 585913, 2379978; 585907, 2379963; 585505, 2380319; 585513, 2380319; 585405, 2380393; 585348, 2380460; 585330, 2380538; 585415, 2380698; 585406, 2380748; 585359, 2380830; 585224, 2380972; 585100, 2381114; 585100, 2381117; 584986, 2381217; 584775, 2381402; 584654, 2381559; 584498, 2381633; 584352, 2381619; 584217, 2381619; 583982, 2381609; 583901, 2381598; 583773, 2381573; 583732, 2381587; 583730, 2381588; 583709, 2381612; 583707, 2381614; 583694, 2381639; 583685, 2381655; 583672, 2381685; 583659, 2381711; 583652, 2381731; 583651, 2381742; 583651, 2381757; 583651, 2381773; 583651, 2381789; 583651, 2381805; 583651, 2381806; 583649, 2381820; 583644, 2381847; 583642, 2381874; 583639, 2381896; 583638, 2381897; 583634, 2381907; 583631, 2381919; 583629, 2381934; 583630, 2381951; 583633, 2381969; 583638, 2381979; 583645, 2381993; 583645, 2381994; 583649, 2382013; 583649, 2382018; 583648, 2382029; 583647, 2382030; 583641, 2382175; 583640, 2382175; 583626, 2382059; 583610, 2382073; 583590, 2382091; 583570, 2382107; 583561, 2382120; 583552, 2382135; 583546, 2382153; 583536, 2382180; 583529, 2382214; 583523, 2382238; 583518, 2382254; 583517, 2382264; 583517, 2382276; 583518, 2382287; 583521, 2382299; 583528, 2382305; 583535, 2382312; 583535, 2382313; 583535, 2382319; 583531, 2382326; 583523, 2382334; 583522, 2382334; 583511, 2382337; 583498, 2382345; 583497, 2382345; 583486, 2382351; 583477, 2382362; 583474, 2382370; 583475, 2382383; 583475, 2382397; 583474, 2382404; 583474, 2382405; 583469, 2382411; 583468, 2382411; 583457, 2382416; 583443, 2382421; 583435, 2382424; 583430, 2382430; 583429, 2382440; 583431, 2382460; 583433, 2382477; 583433, 2382478; 583432, 2382490; 583506, 2382508; 583805, 2382519; 584043, 2382487; 584403, 2382423; 584513, 2382409; 584616, 2382423; 584769, 2382455; 584936, 2382441; return to starting point.

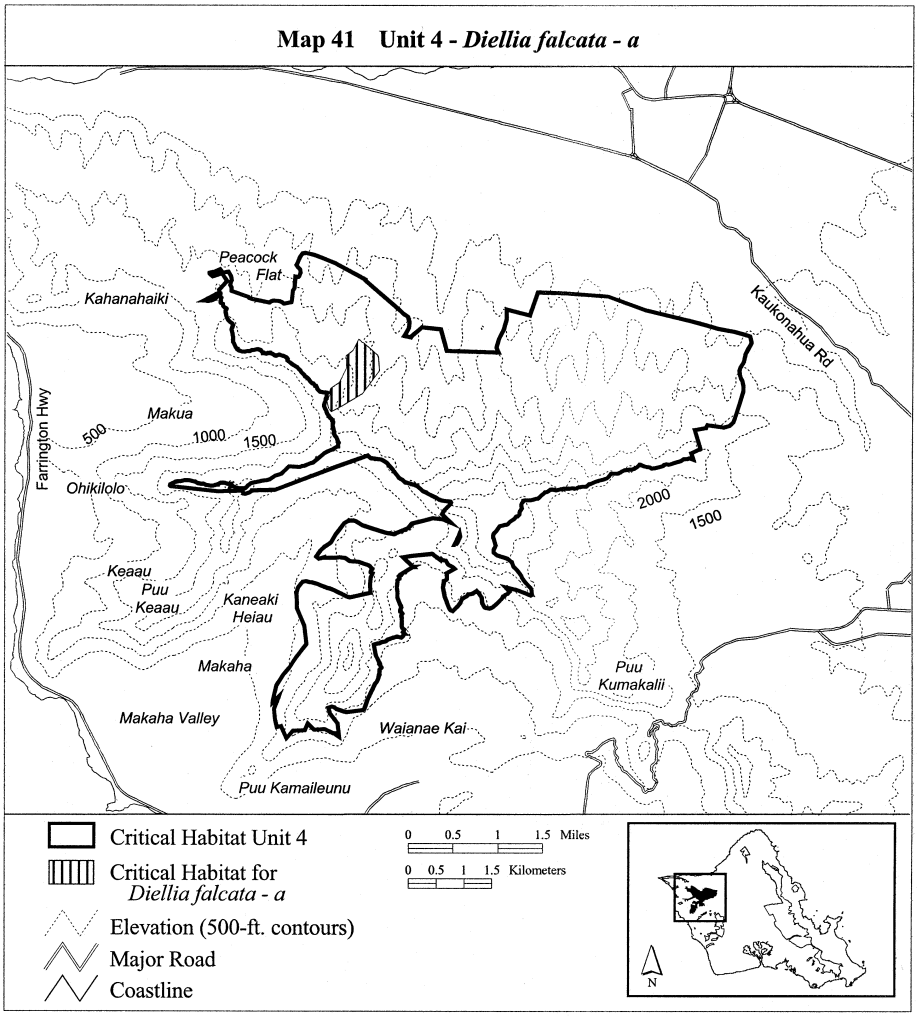
(ii) NOTE: Map 40 follows:



(41) Oahu 4—*Diellia falcata*—a (60 ha; 147 ac)

(i) Unit consists of the following 21 boundary points: Start at 585421, 2380455; 585383, 2380524; 585356, 2380641; 585411, 2380778; 585389, 2380782; 585417, 2380883; 585579, 2380991; 585706, 2381244; 585697, 2381470; 585824, 2381570; 585926, 2381770; 585950, 2381757; 585979, 2381715; 585978, 2381713; 586014, 2381706; 586260, 2381493; 586273, 2381458; 586277, 2381451; 586294, 2381199; 585995, 2380792; 585643, 2380575; return to starting point.

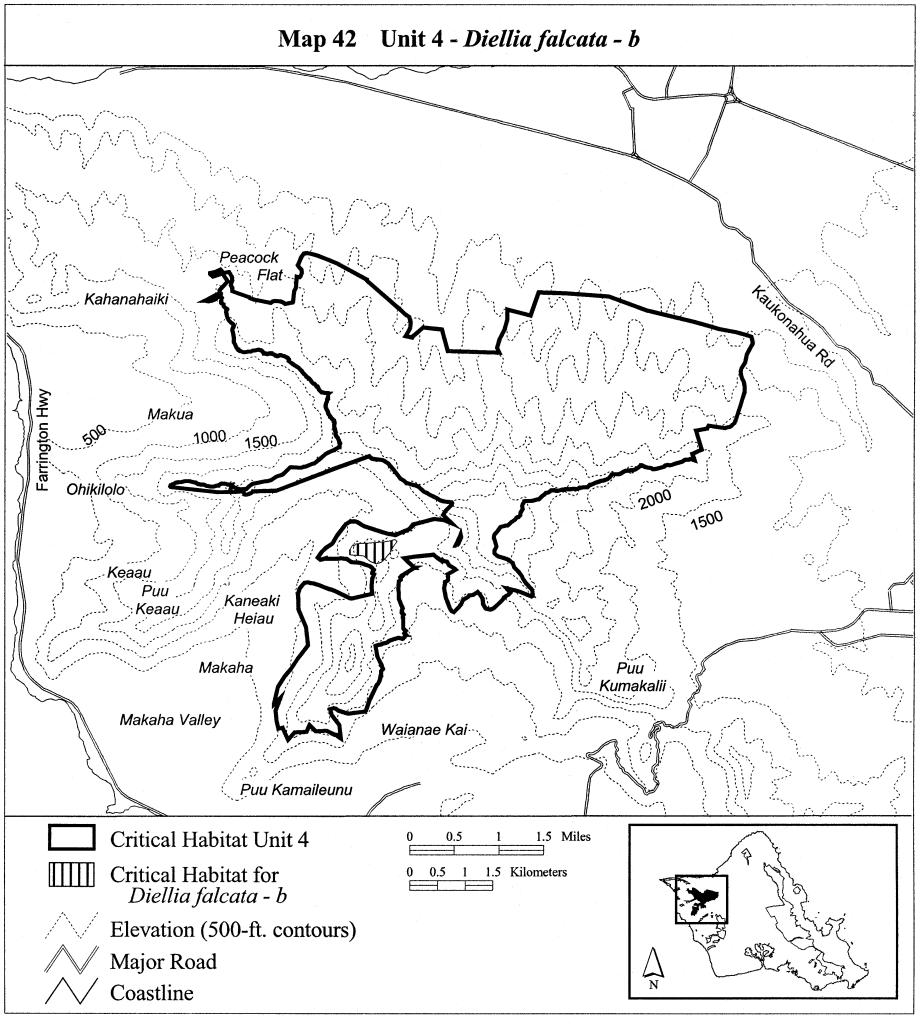
(ii) NOTE: Map 41 follows:



(42) Oahu 4—*Diellia falcata*—b (22 ha; 54 ac)

(i) Unit consists of the following 18 boundary points: Start at 585820, 2378037; 585847, 2378081; 586055, 2378092; 586289, 2378108; 586398, 2378114; 586562, 2378152; 586595, 2378119; 586546, 2378043; 586464, 2377906; 586349, 2377781; 586306, 2377743; 586218, 2377721; 586104, 2377764; 585984, 2377863; 585836, 2377873; 585733, 2377884; 585733, 2377961; 585798, 2378059; return to starting point.

(ii) NOTE: Map 42 follows:

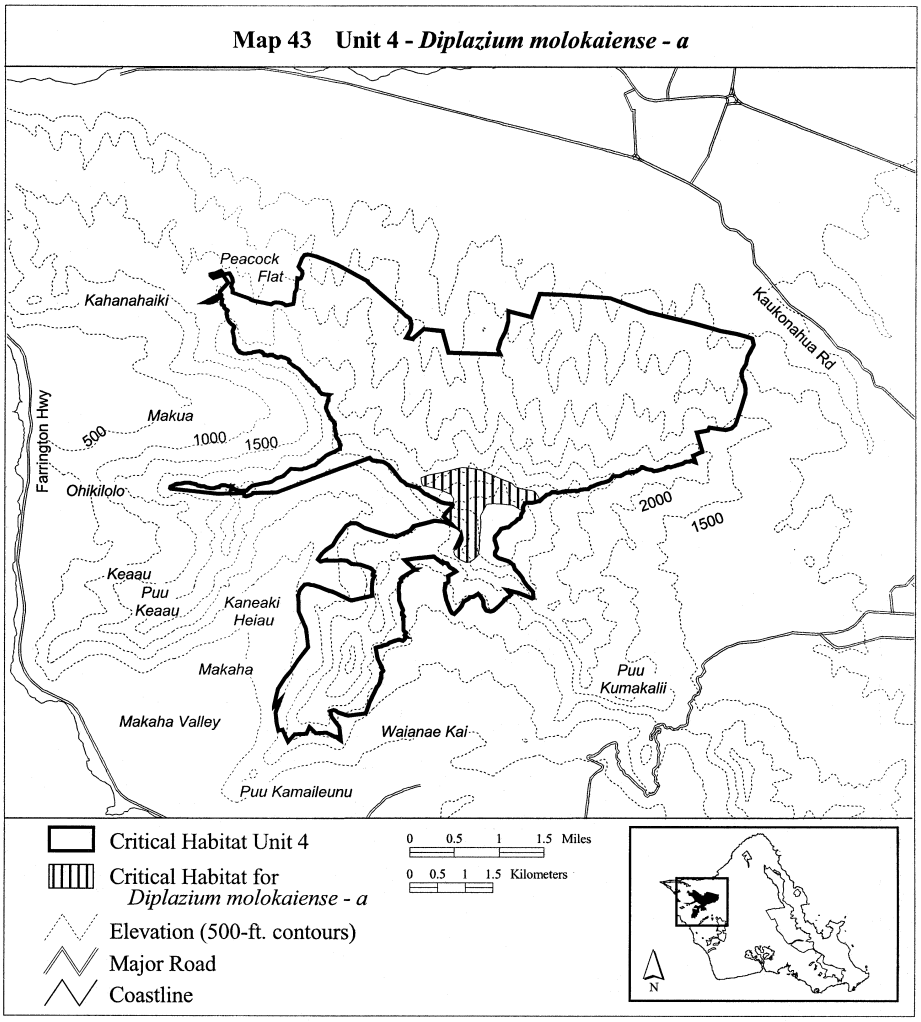


(43) Oahu 4—*Diplazium molokaiense*—a (138 ha; 340 ac)

(i) Unit consists of the following 63 boundary points: Start at 588852, 2378704; 588669, 2378805; 588490, 2378830; 588311, 2378838; 588207, 2378826; 588141, 2378709; 588091, 2378605; 588091, 2378489; 588099, 2378389; 588070, 2378227; 588066, 2378019; 588037, 2377894; 587972, 2377824; 587897, 2377786; 587845, 2377777; 587712, 2377827; 587625, 2377911; 587608, 2377977; 587692, 2378073; 587754, 2378202; 587721, 2378327; 587579, 2378456; 587496, 2378530; 587425, 2378601; 587467, 2378676; 587575, 2378780; 587600, 2378863; 587608, 2378930; 587550, 2379009; 587367, 2379079; 587201, 2379125; 587038, 2379167; 587022, 2379213; 587013, 2379304; 587155, 2379350; 587400, 2379404; 587633, 2379466; 587758, 2379491; 587887, 2379479; 588066, 2379446; 588195, 2379400; 588457, 2379283; 588640, 2379208; 588723, 2379134; 588831, 2379104; 589002, 2379075; 589064, 2379050; 589135, 2378959; 589135, 2378882; 589123, 2378879; 589060, 2378862; 589009, 2378857; 588910, 2378852; 588910, 2378851; 588899, 2378848; 588898,

2378848; 588887, 2378841; 588887, 2378840; 588862, 2378802; 588851, 2378772; 588851, 2378763; 588851, 2378746; 588855, 2378710; return to starting point.

(ii) NOTE: Map 43 follows:

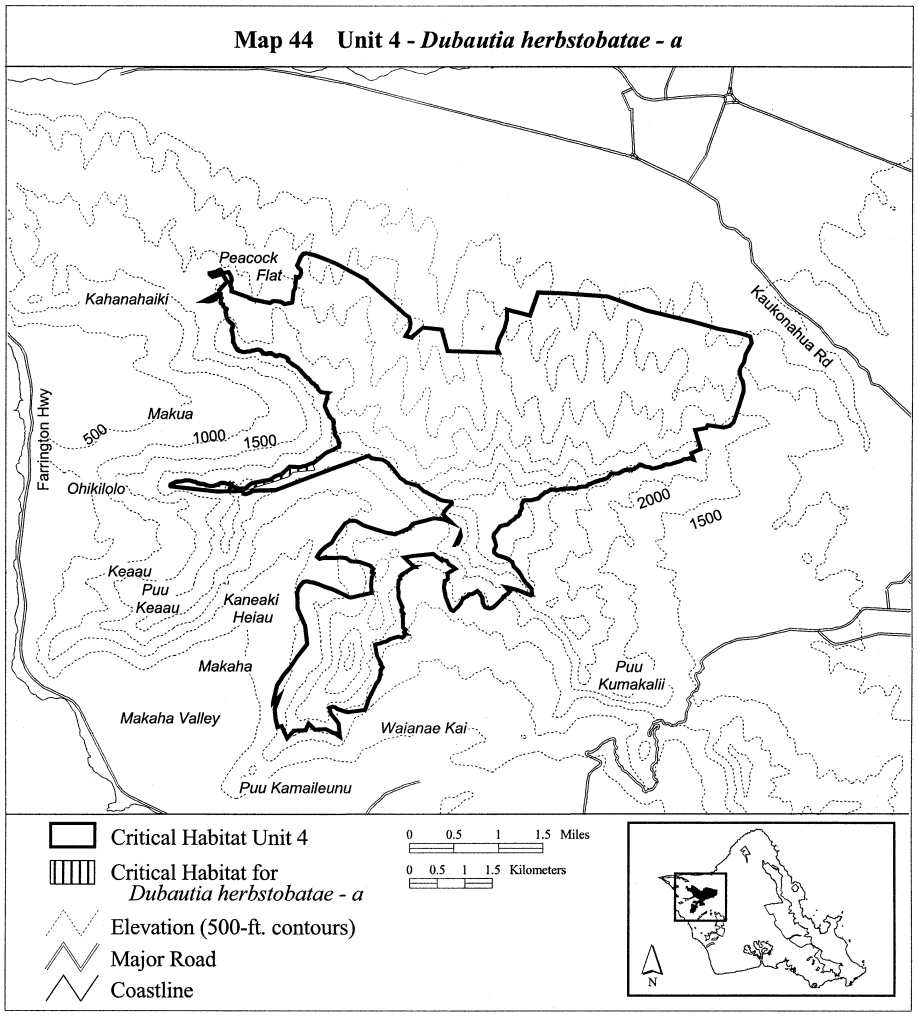


(44) Oahu 4—*Dubautia herbstobatae*—a (12 ha; 29 ac)

(i) Unit consists of the following 30 boundary points: Start at 585068, 2379524; 585080, 2379506; 585126, 2379404; 584736, 2379361; 584661, 2379278; 584406, 2379187; 584106, 2379096; 583936, 2379044; 583909, 2379048; 583909, 2379076; 583899, 2379083; 583947, 2379131; 583977, 2379150; 584086, 2379180; 584226, 2379210; 584256, 2379210; 584326, 2379230; 584327, 2379230; 584417, 2379290; 584526, 2379330; 584527, 2379330; 584557, 2379350; 584657, 2379450; 584667, 2379460; 584836, 2379450; 584866, 2379450; 584867, 2379450; 584906, 2379470;

584936, 2379470; 584937, 2379470; return to starting point.

(ii) NOTE: Map 44 follows:

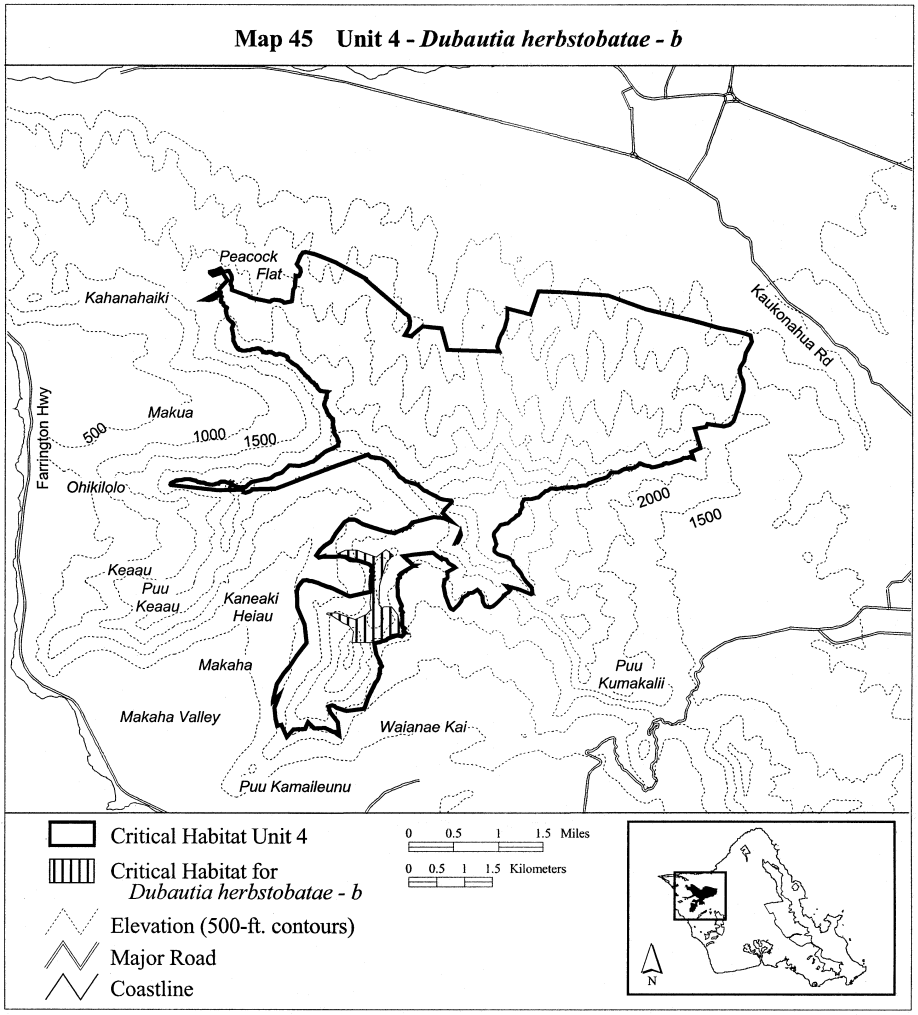


(45) Oahu 4—*Dubautia herbstobatae*—b (77 ha; 190 ac)

(i) Unit consists of the following 35 boundary points: Start at 586413, 2377940; 586540, 2377836; 586415, 2377693; 586296, 2377282; 586288, 2376942; 586343, 2376878; 586377, 2376897; 586514, 2376901; 586627, 2376764; 586675, 2376521; 586749, 2376437; 586505, 2376404; 586426, 2376297; 586148, 2376252; 585803, 2376258; 585833, 2376452; 585749, 2376553; 585646, 2376609; 585450, 2376733; 585354, 2376763; 585361, 2376789; 585529, 2376789; 585862, 2376670; 586066, 2376763; 586138, 2376846; 586128, 2376969; 586145, 2377104; 586133, 2377283; 586144, 2377443; 586202, 2377576; 586102, 2377698; 585538, 2377868; 585699, 2377929;

585886, 2377929; 586246, 2377799; return to starting point.

(ii) NOTE: Map 45 follows:

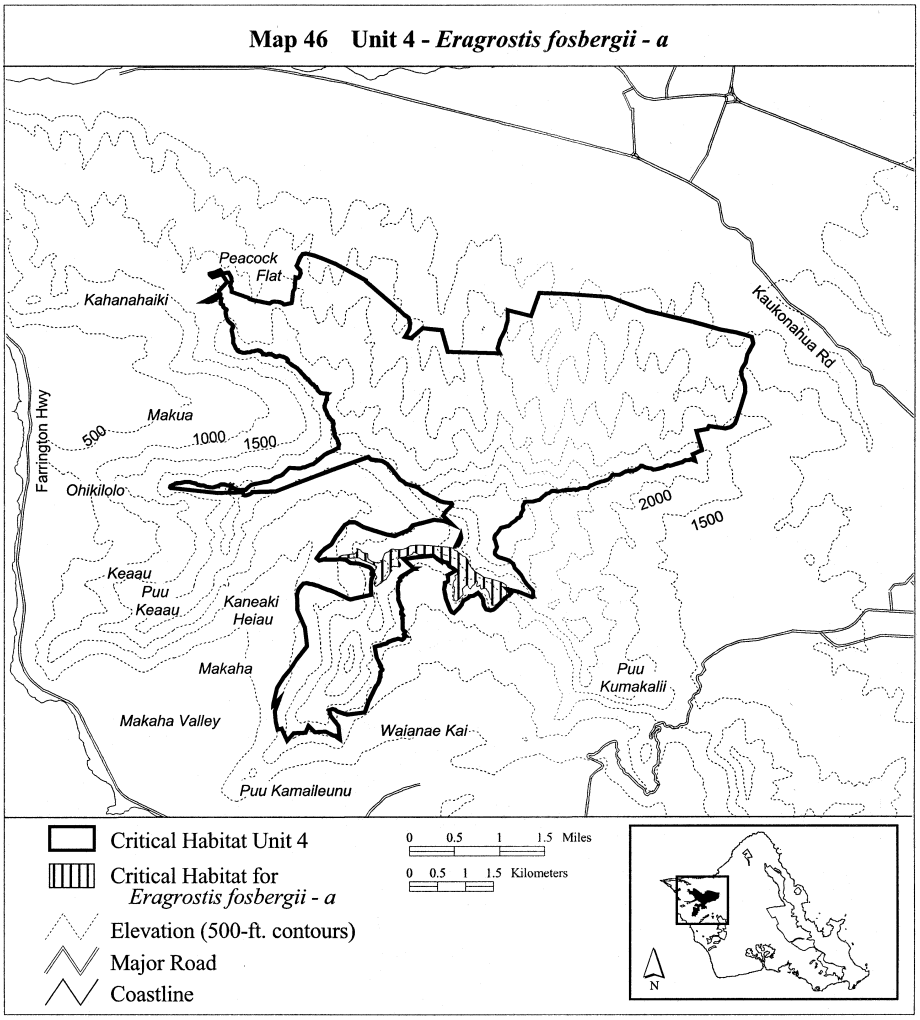


(46) Oahu 4—*Eragrostis fosbergii*—a (81 ha; 199 ac)

(i) Unit consists of the following 219 boundary points: Start at 586573, 2377994; 586653, 2377994; 586691, 2377987; 586747, 2378005; 586782, 2378016; 586811, 2378015; 586774, 2378020; 586836, 2378053; 586919, 2378070; 587065, 2378070; 587207, 2378064; 587332, 2378050; 587490, 2378035; 587605, 2378023; 587629, 2377978; 587677, 2377964; 587733, 2377922; 587784, 2377877; 587819, 2377865; 587864, 2377809; 587885, 2377738; 587935, 2377666; 587997, 2377601; 588084, 2377539; 588158, 2377494; 588293, 2377456; 588479, 2377399; 588563, 2377350; 588569, 2377252; 588569, 2377240; 588563, 2377191; 588559, 2377135; 588546, 2377121; 588525, 2377106; 588476, 2377103; 588456,

2377072; 588428, 2377047; 588396, 2377013; 588338, 2376982; 588294, 2376983; 588289, 2377024; 588291, 2377065; 588278, 2377088; 588263, 2377129; 588252, 2377191; 588234, 2377235; 588213, 2377250; 588195, 2377283; 588165, 2377289; 588132, 2377281; 588113, 2377276; 588098, 2377294; 588090, 2377325; 588090, 2377348; 588060, 2377332; 588036, 2377323; 588026, 2377341; 588038, 2377395; 588036, 2377415; 588008, 2377392; 587997, 2377364; 587969, 2377343; 587951, 2377328; 587931, 2377305; 587925, 2377287; 587895, 2377289; 587879, 2377327; 587866, 2377348; 587833, 2377340; 587813, 2377315; 587794, 2377299; 587769, 2377274; 587776, 2377243; 587781, 2377207; 587791, 2377176; 587779, 2377160; 587753, 2377145; 587738, 2377127; 587728, 2377111; 587697, 2377083; 587673, 2377060; 587645, 2377060; 587629, 2377072; 587611, 2377111; 587612, 2377137; 587624, 2377180; 587632, 2377225; 587635, 2377253; 587620, 2377279; 587643, 2377302; 587609, 2377337; 587604, 2377384; 587635, 2377425; 587663, 2377459; 587637, 2377497; 587643, 2377520; 587678, 2377541; 587673, 2377554; 587674, 2377580; 587671, 2377580; 587626, 2377640; 587531, 2377693; 587492, 2377759; 587424, 2377773; 587394, 2377815; 587323, 2377818; 587302, 2377836; 587285, 2377871; 587249, 2377886; 587190, 2377889; 587083, 2377907; 586993, 2377898; 586904, 2377943; 586885, 2377936; 586889, 2377920; 586865, 2377903; 586837, 2377893; 586787, 2377884; 586747, 2377865; 586699, 2377853; 586677, 2377853; 586643, 2377837; 586615, 2377817; 586629, 2377782; 586659, 2377746; 586667, 2377705; 586658, 2377679; 586648, 2377671; 586605, 2377684; 586572, 2377686; 586548, 2377687; 586530, 2377687; 586503, 2377667; 586497, 2377647; 586511, 2377606; 586500, 2377587; 586485, 2377569; 586473, 2377550; 586450, 2377517; 586425, 2377475; 586415, 2377454; 586369, 2377427; 586313, 2377382; 586283, 2377360; 586243, 2377325; 586214, 2377331; 586192, 2377360; 586198, 2377394; 586208, 2377414; 586208, 2377432; 586228, 2377451; 586241, 2377465; 586241, 2377491; 586230, 2377507; 586219, 2377534; 586216, 2377552; 586185, 2377572; 586182, 2377588; 586200, 2377616; 586228, 2377641; 586238, 2377678; 586190, 2377707; 586134, 2377745; 586088, 2377767; 586007, 2377791; 585967, 2377813; 585938, 2377839; 585892, 2377847; 585817, 2377839; 585817, 2377843; 585794, 2377839; 585748, 2377839; 585684, 2377847; 585660, 2377847; 585627, 2377844; 585588, 2377844; 585566, 2377844; 585561, 2377852; 585572, 2377860; 585606, 2377881; 585649, 2377892; 585686, 2377892; 585737, 2377904; 585796, 2377909; 585842, 2377914; 585821, 2377904; 585821, 2377901; 585852, 2377904; 585880, 2377944; 585890, 2377967; 585880, 2378007; 585888, 2378010; 585917, 2377999; 585949, 2377981; 585962, 2377959; 585981, 2377946; 586002, 2377928; 586029, 2377930; 586061, 2377922; 586082, 2377916; 586082, 2377882; 586083, 2377837; 586115, 2377801; 586161, 2377774; 586206, 2377764; 586246, 2377751; 586270, 2377746; 586326, 2377775; 586343, 2377813; 586364, 2377852; 586367, 2377873; 586378, 2377904; 586391, 2377919; 586415, 2377933; 586441, 2377946; 586473, 2377972; 586484, 2377986; 586506, 2377999; 586538, 2377999; return to starting point.

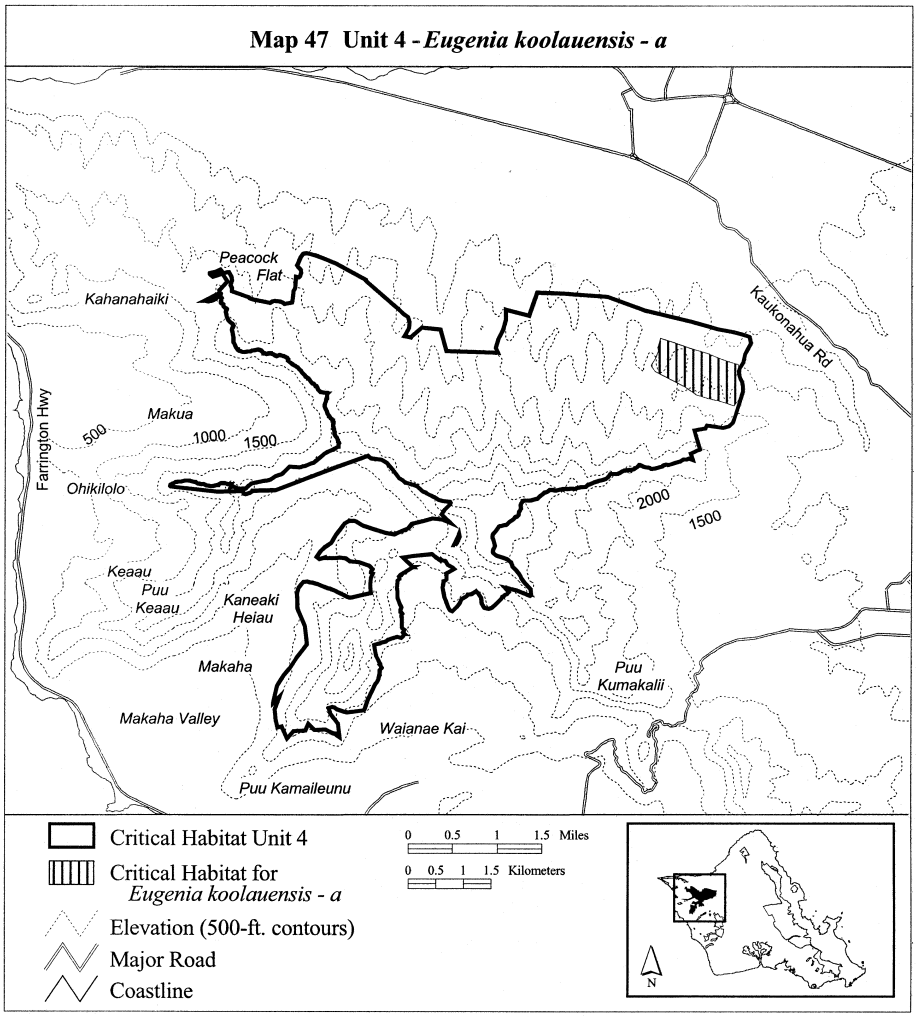
(ii) NOTE: Map 46 follows:



(47) Oahu 4—*Eugenia koolauensis*—a (113 ha; 280 ac)

(i) Unit consists of the following 23 boundary points: Start at 591255, 2381198; 591189, 2381301; 591255, 2381419; 591312, 2381558; 591307, 2381625; 591358, 2381794; 591610, 2381717; 591883, 2381620; 592196, 2381522; 592459, 2381414; 592623, 2381362; 592757, 2381326; 592772, 2381126; 592803, 2381018; 592829, 2380930; 592829, 2380822; 592793, 2380714; 592685, 2380571; 592505, 2380637; 592402, 2380658; 592227, 2380699; 592001, 2380771; 591790, 2380915; return to starting point.

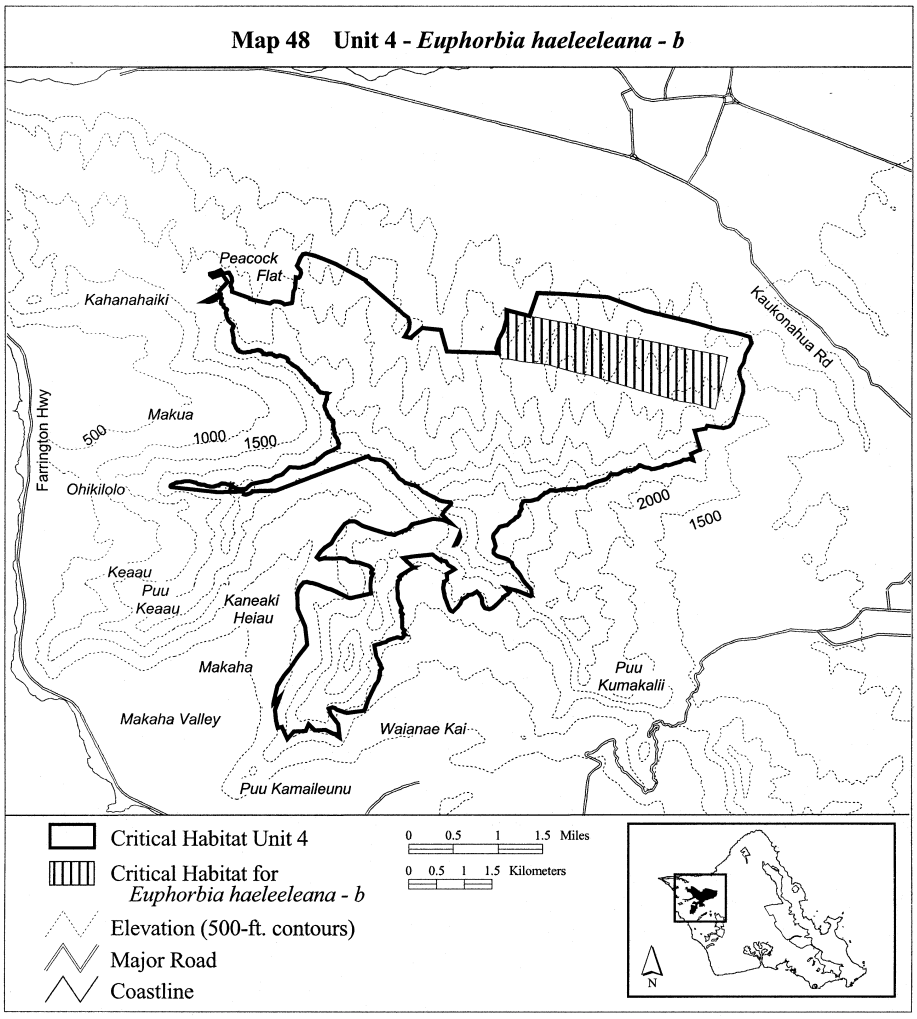
(ii) NOTE: Map 47 follows:



(48) Oahu 4—*Euphorbia haeleeleana*—b (357 ha; 881 ac)

(i) Unit consists of the following 33 boundary points: Start at 589099, 2382193; 589372, 2382136; 589555, 2382097; 589794, 2382058; 590632, 2381854; 591432, 2381701; 591836, 2381610; 592280, 2381523; 592557, 2381462; 592334, 2380514; 592288, 2380528; 591980, 2380619; 591814, 2380645; 591697, 2380658; 591406, 2380745; 591049, 2380836; 590645, 2380958; 590267, 2381067; 590080, 2381136; 589906, 2381158; 589638, 2381236; 589368, 2381315; 589274, 2381335; 589020, 2381362; 588860, 2381384; 588642, 2381428; 588481, 2381436; 588399, 2381615; 588442, 2381784; 588529, 2381962; 588581, 2382136; 588577, 2382315; 589091, 2382181; return to starting point.

(ii) NOTE: Map 48 follows:

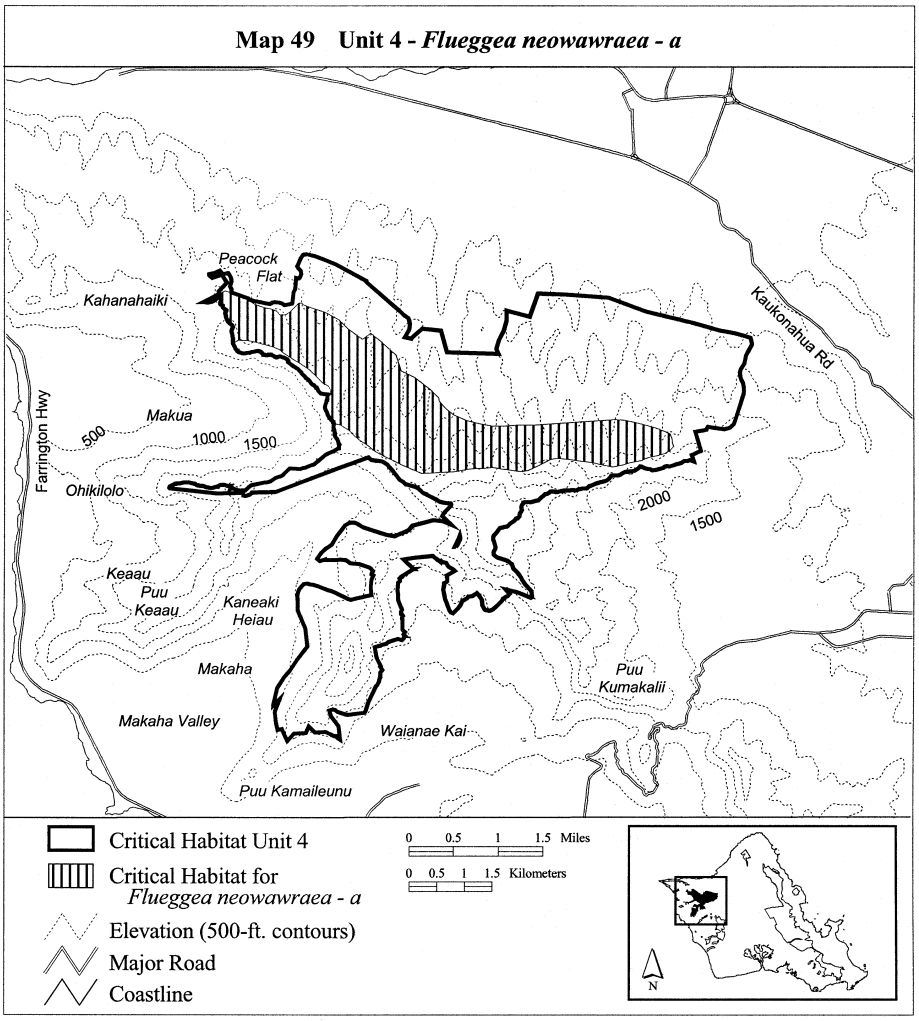


(49) Oahu 4—*Flueggea neowawraea*—a (845 ha; 2,087 ac)

(i) Unit consists of the following 242 boundary points: Start at 585312, 2380625; 585349, 2380698; 585367, 2380769; 585403, 2380875; 585367, 2380946; 585291, 2381001; 585286, 2380984; 585176, 2381087; 585013, 2381250; 584871, 2381356; 584708, 2381452; 584531, 2381568; 584478, 2381621; 584340, 2381671; 584163, 2381717; 584022, 2381752; 583891, 2381777; 583746, 2381777; 583657, 2381716; 583652, 2381731; 583651, 2381742; 583651, 2381757; 583651, 2381773; 583651, 2381789; 583651, 2381805; 583651, 2381806; 583649, 2381820; 583644, 2381847; 583642, 2381874; 583639, 2381896; 583638, 2381897; 583634, 2381907; 583631, 2381919; 583629, 2381934; 583630, 2381951; 583633, 2381969; 583638, 2381979; 583645, 2381993; 583645, 2381994; 583649, 2382013; 583649, 2382018; 583648, 2382029; 583647, 2382030; 583641, 2382045; 583640, 2382045; 583626, 2382059; 583610, 2382073; 583590, 2382091; 583570, 2382107; 583561, 2382120; 583552, 2382135; 583546, 2382153; 583536, 2382180; 583529, 2382214; 583523, 2382238; 583518,

2382254; 583517, 2382264; 583517, 2382276; 583518, 2382287; 583521, 2382299; 583528, 2382305; 583535, 2382312; 583535, 2382313; 583535, 2382319; 583531, 2382326; 583523, 2382334; 583522, 2382334; 583511, 2382337; 583498, 2382345; 583486, 2382351; 583477, 2382362; 583474, 2382370; 583475, 2382383; 583475, 2382397; 583474, 2382404; 583474, 2382405; 583469, 2382411; 583468, 2382411; 583457, 2382416; 583443, 2382421; 583435, 2382424; 583430, 2382430; 583429, 2382440; 583431, 2382460; 583433, 2382477; 583433, 2382478; 583431, 2382497; 583427, 2382525; 583427, 2382526; 583422, 2382540; 583419, 2382560; 583417, 2382581; 583417, 2382582; 583412, 2382595; 583411, 2382596; 583405, 2382599; 583404, 2382599; 583403, 2382599; 583403, 2382598; 583396, 2382592; 583396, 2382591; 583382, 2382561; 583360, 2382532; 583351, 2382522; 583336, 2382510; 583315, 2382498; 583295, 2382485; 583281, 2382481; 583265, 2382474; 583249, 2382467; 583232, 2382466; 583216, 2382464; 583204, 2382463; 583193, 2382461; 583179, 2382464; 583159, 2382468; 583158, 2382468; 583138, 2382470; 583125, 2382472; 583122, 2382472; 583519, 2382674; 583934, 2382535; 583948, 2382499; 583931, 2382503; 584036, 2382432; 584213, 2382372; 584266, 2382361; 584345, 2382340; 584433, 2382308; 584461, 2382280; 584476, 2382248; 584596, 2382241; 584681, 2382301; 584755, 2382368; 584822, 2382457; 584865, 2382453; 584893, 2382449; 584907, 2382421; 585028, 2382379; 585158, 2382333; 585296, 2382290; 585548, 2382156; 585604, 2382099; 585725, 2381982; 585976, 2381802; 586121, 2381904; 586281, 2381794; 586580, 2381520; 586680, 2381222; 586921, 2381108; 587200, 2380896; 587225, 2380870; 587227, 2380873; 587358, 2380734; 587358, 2380731; 587359, 2380730; 587358, 2380728; 587358, 2380692; 587431, 2380608; 587468, 2380566; 587468, 2380565; 587494, 2380535; 587643, 2380425; 587873, 2380330; 588120, 2380259; 588322, 2380224; 588541, 2380224; 588789, 2380241; 589069, 2380248; 590508, 2380344; 590692, 2380337; 590915, 2380294; 591116, 2380231; 591244, 2380195; 591453, 2380118; 591516, 2380089; 591548, 2379990; 591552, 2379934; 591573, 2379863; 591534, 2379799; 591424, 2379735; 591318, 2379704; 591106, 2379658; 591003, 2379612; 590801, 2379573; 590667, 2379527; 590483, 2379495; 590341, 2379520; 590111, 2379573; 589881, 2379604; 589683, 2379626; 589496, 2379643; 589379, 2379629; 589184, 2379523; 588979, 2379424; 588887, 2379410; 588777, 2379410; 588675, 2379424; 588487, 2379456; 588328, 2379481; 588148, 2379463; 588045, 2379463; 587882, 2379449; 587744, 2379420; 587624, 2379396; 587394, 2379392; 587263, 2379382; 587051, 2379371; 586874, 2379442; 586691, 2379530; 586686, 2379523; 586496, 2379625; 586364, 2379689; 586368, 2379694; 586366, 2379695; 586364, 2379693; 586162, 2379796; 586099, 2379859; 585932, 2379976; 585837, 2380054; 585745, 2380146; 585589, 2380245; 585456, 2380281; 585451, 2380295; 585443, 2380310; 585430, 2380325; 585430, 2380326; 585408, 2380344; 585393, 2380361; 585375, 2380388; 585364, 2380407; 585353, 2380428; 585342, 2380452; 585330, 2380478; 585322, 2380497; 585318, 2380512; 585308, 2380533; 585299, 2380553; 585297, 2380570; 585300, 2380580; 585303, 2380592; 585309, 2380613; return to starting point.

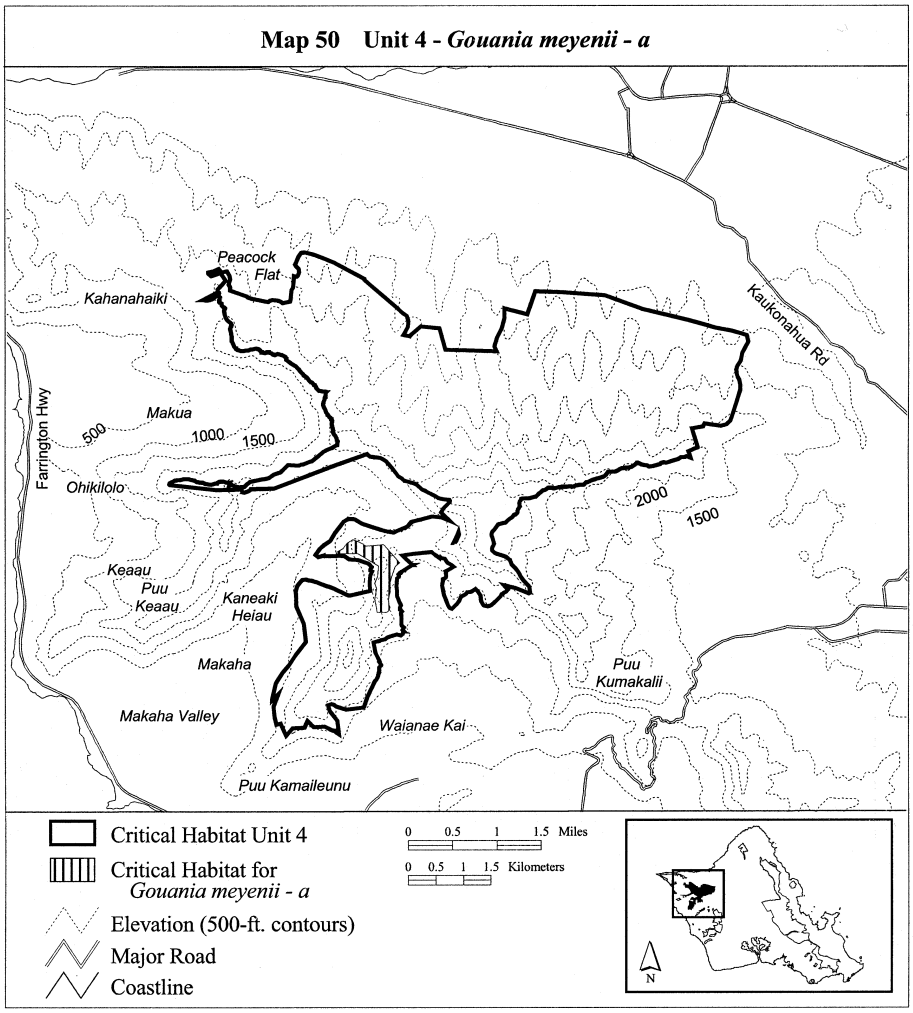
(ii) NOTE: Map 49 follows:



(50) Oahu 4—*Gouania meyenii*—a (48 ha; 118 ac)

(i) Unit consists of the following 27 boundary points: Start at 585998, 2378034; 586072, 2377992; 586303, 2378011; 586383, 2378023; 586678, 2377679; 586598, 2377619; 586542, 2377467; 586505, 2377324; 586505, 2377158; 586469, 2377029; 586496, 2376830; 586445, 2376780; 586270, 2376780; 586256, 2376853; 586220, 2377015; 586256, 2377222; 586224, 2377314; 586279, 2377439; 586289, 2377577; 586293, 2377628; 585924, 2377854; 585533, 2377854; 585556, 2377882; 585662, 2377942; 585726, 2378034; 585837, 2378108; 585929, 2378075; return to starting point.

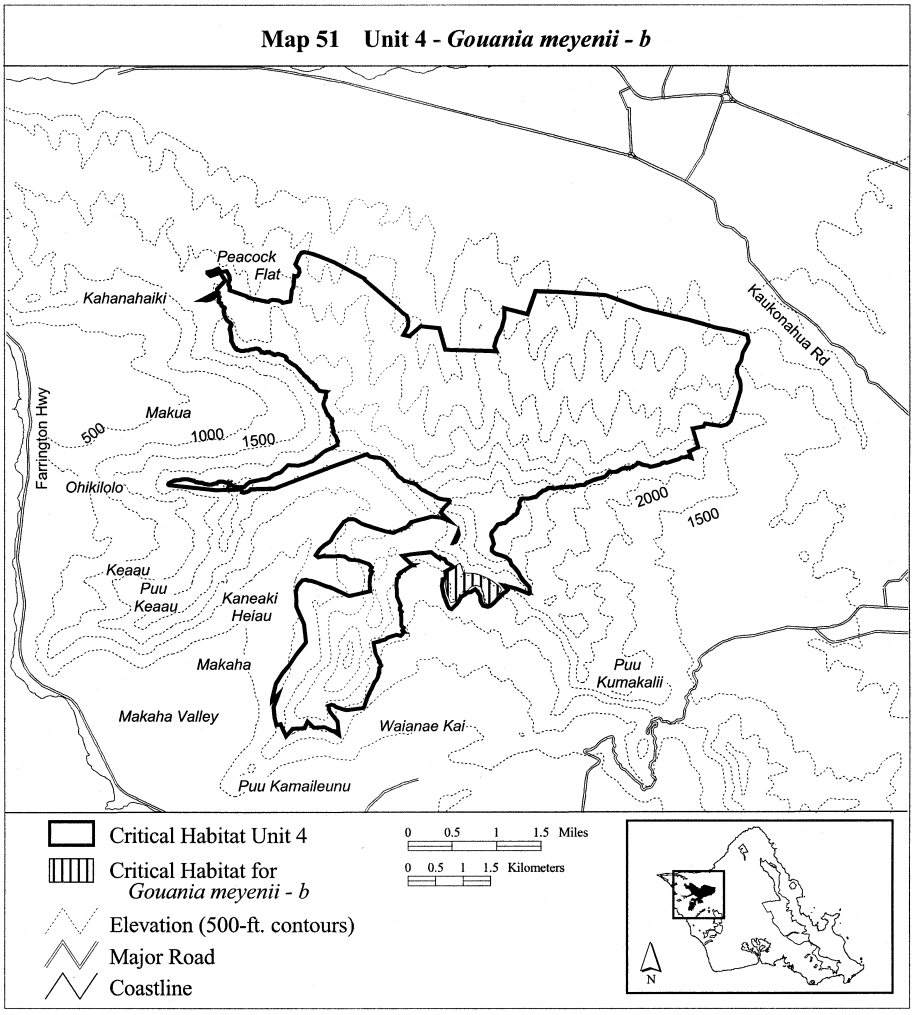
(ii) NOTE: Map 50 follows:



(51) Oahu 4—*Gouania meyenii*—b (39 ha; 96 ac)

(i) Unit consists of the following 28 boundary points: Start at 587782, 2377681; 587796, 2377628; 587833, 2377517; 587902, 2377499; 588022, 2377499; 588119, 2377471; 588313, 2377388; 588497, 2377268; 588530, 2377195; 588433, 2377056; 588364, 2376969; 588276, 2376936; 588221, 2376964; 588207, 2377047; 588193, 2377149; 588147, 2377255; 588068, 2377287; 587972, 2377245; 587879, 2377144; 587773, 2377075; 587709, 2376996; 587603, 2376964; 587575, 2377024; 587534, 2377125; 587511, 2377227; 587506, 2377319; 587515, 2377513; 587507, 2377531; return to starting point.

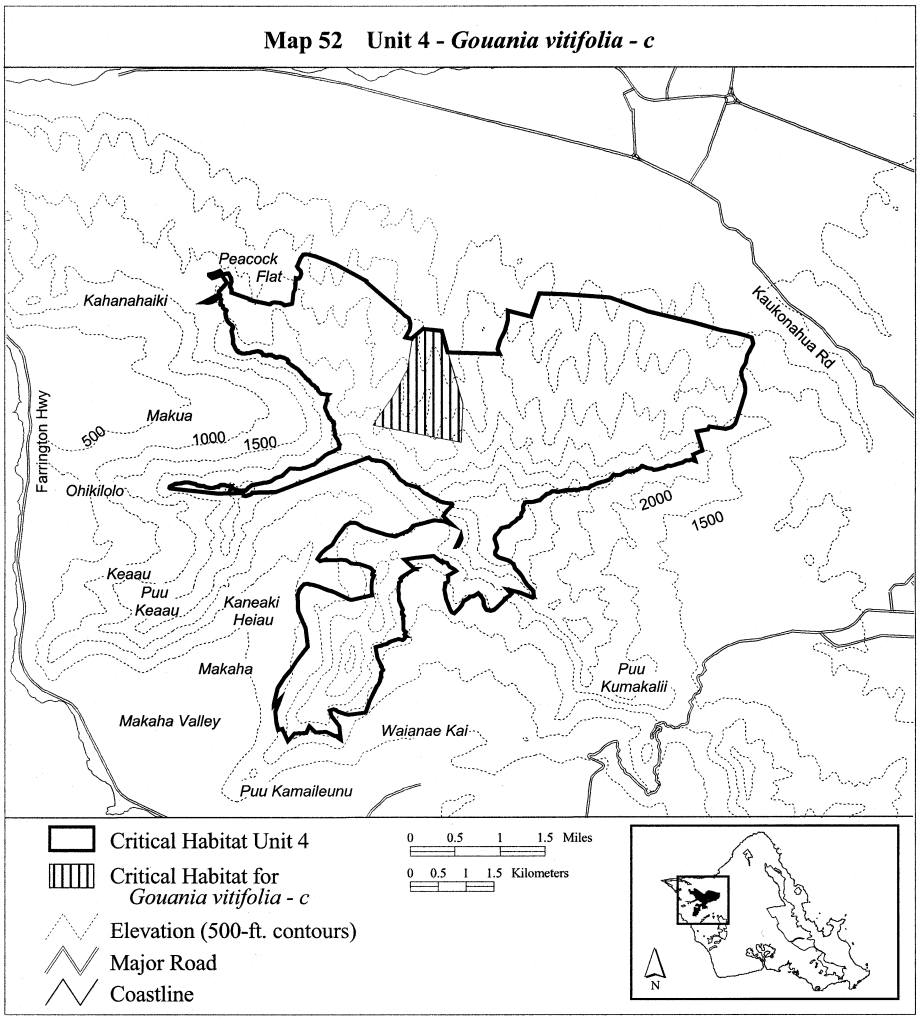
(ii) NOTE: Map 51 follows:



(52) Oahu 4—*Gouania vitifolia*—c (195 ha; 483 ac)

(i) Unit consists of the following 8 boundary points: Start at 587752, 2379934; 586159, 2380248; 586533, 2380789; 586779, 2381256; 586867, 2381827; 587064, 2381994; 587393, 2381955; 587777, 2380637; return to starting point.

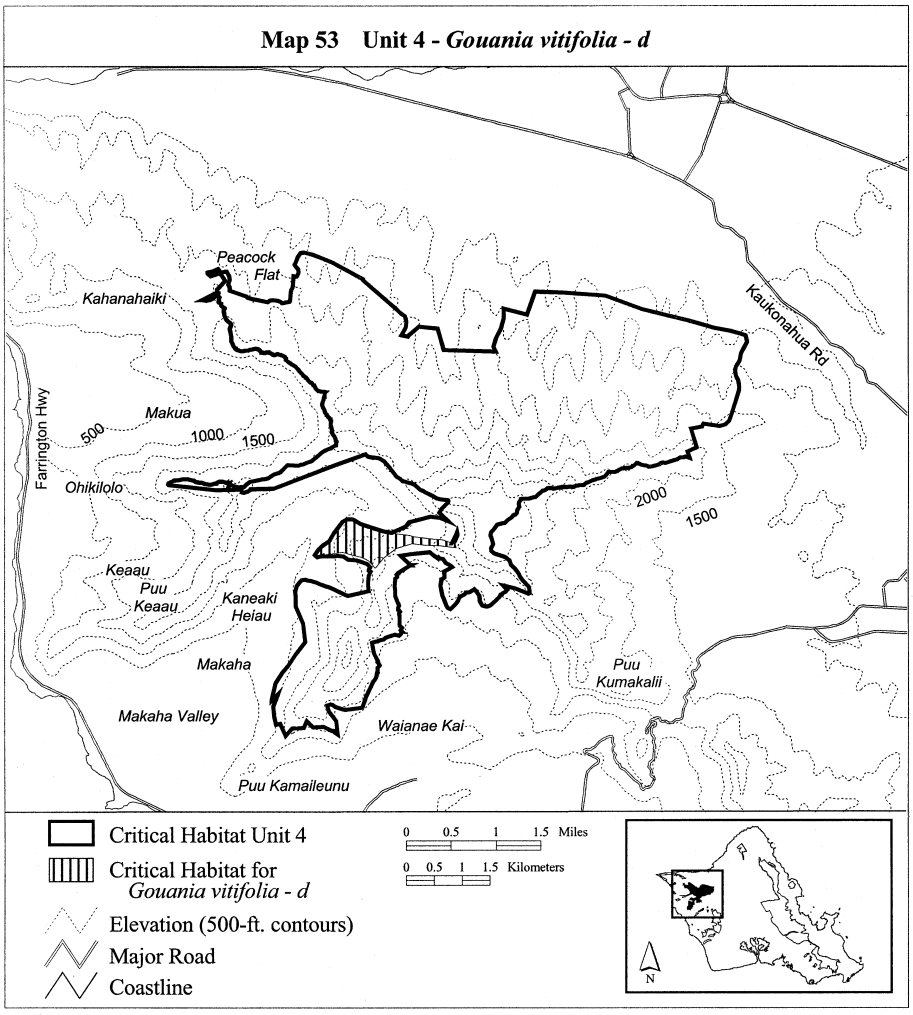
(ii) NOTE: Map 52 follows:



(53) Oahu 4—*Gouania vitifolia*—d (84 ha; 208 ac)

(i) Unit consists of the following 36 boundary points: Start at 586265, 2377593; 586264, 2377598; 586208, 2377667; 586135, 2377736; 586019, 2377792; 585834, 2377839; 585666, 2377882; 585550, 2377860; 585387, 2377843; 585206, 2377792; 585159, 2377830; 585236, 2377934; 585326, 2378020; 585421, 2378084; 585511, 2378235; 585602, 2378355; 585670, 2378437; 585752, 2378484; 585842, 2378480; 585873, 2378475; 585984, 2378402; 586230, 2378321; 586415, 2378265; 586582, 2378230; 586883, 2378192; 586957, 2378166; 587335, 2378123; 587490, 2378106; 587628, 2378058; 587705, 2378024; 587719, 2377966; 587435, 2378001; 587170, 2378013; 586936, 2378033; 586647, 2377957; 586421, 2377784; return to starting point.

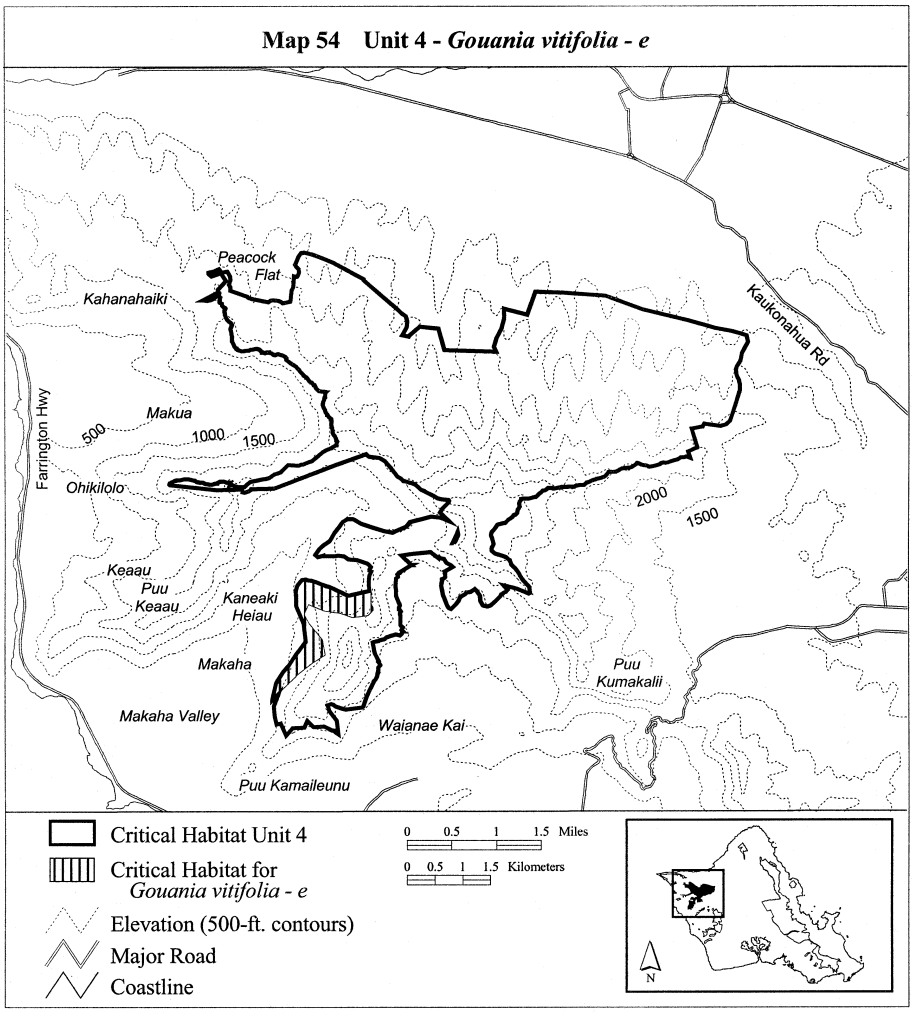
(ii) NOTE: Map 53 follows:



(54) Oahu 4—*Gouania vitifolia*—e (102 ha; 252 ac)

(i) Unit consists of the following 41 boundary points: Start at 585510, 2377208; 585756, 2377090; 586178, 2377178; 586178, 2377052; 586178, 2376914; 586190, 2376916; 586204, 2376890; 586213, 2376815; 586127, 2376725; 585844, 2376688; 585624, 2376763; 585329, 2376813; 585104, 2376927; 584958, 2376744; 585052, 2376581; 585285, 2376292; 585341, 2376015; 585102, 2375858; 584857, 2375669; 584562, 2375374; 584380, 2375182; 584380, 2375189; 584453, 2375499; 584578, 2375705; 584681, 2375822; 584794, 2376001; 584985, 2376248; 584956, 2376578; 584816, 2376896; 584814, 2377043; 584802, 2377164; 584836, 2377263; 584875, 2377327; 584926, 2377374; 584991, 2377379; 585042, 2377361; 585081, 2377361; 585167, 2377340; 585257, 2377301; 585382, 2377258; 585393, 2377255; return to starting point.

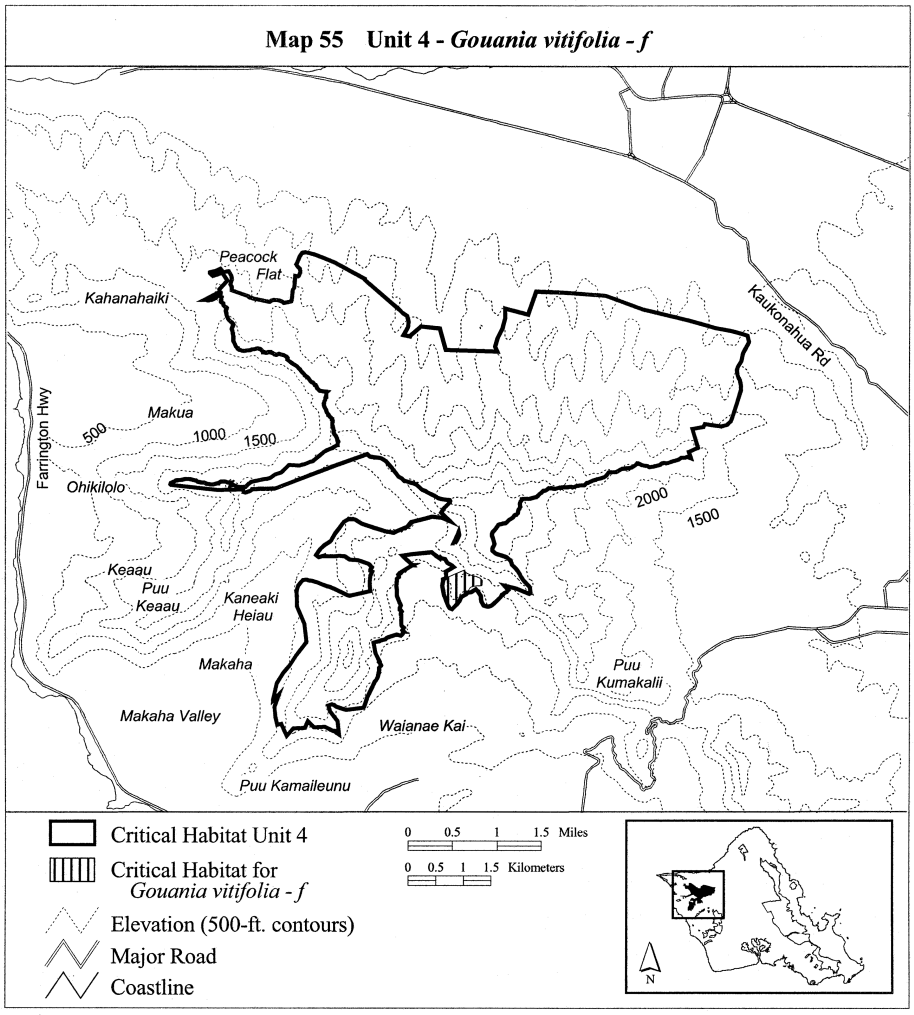
(ii) NOTE: Map 54 follows:



(55) Oahu 4—*Gouania vitifolia*—f (27 ha; 67 ac)

(i) Unit consists of the following 25 boundary points: Start at 587841, 2377556; 587873, 2377508; 587963, 2377465; 588066, 2377439; 588131, 2377413; 588170, 2377374; 588170, 2377336; 588157, 2377271; 588058, 2377275; 587963, 2377245; 587903, 2377168; 587873, 2377121; 587791, 2377060; 587757, 2377000; 587701, 2376931; 587675, 2376897; 587619, 2376850; 587580, 2376862; 587554, 2376906; 587503, 2377026; 587477, 2377090; 587455, 2377189; 587443, 2377271; 587460, 2377366; 587455, 2377389; return to starting point.

(ii) NOTE: Map 55 follows:

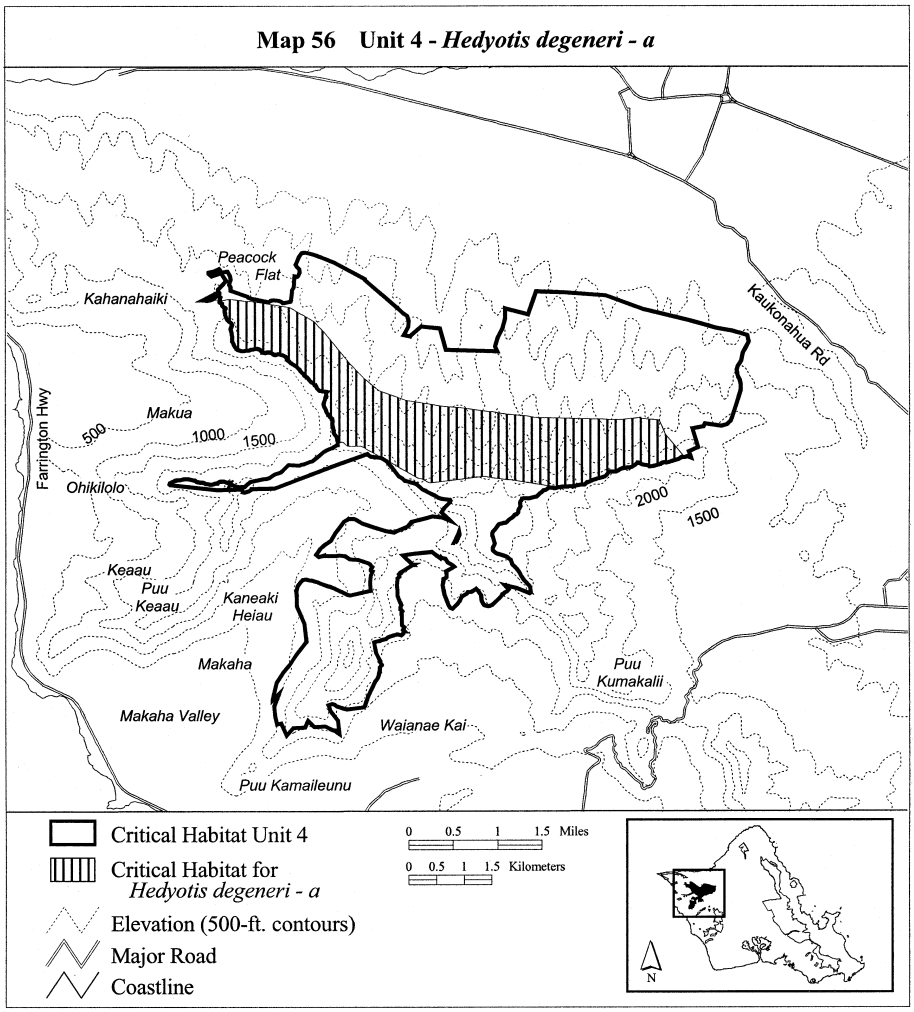


(56) Oahu 4—*Hedyotis degeneri*—a (917 ha; 2,265 ac)

(i) Unit consists of the following 334 boundary points: Start at 590035, 2379115; 589518, 2379058; 588672, 2379188; 588616, 2379195; 588356, 2379231; 588192, 2379252; 587212, 2379139; 587072, 2379208; 587008, 2379219; 586848, 2379307; 586668, 2379411; 586497, 2379514; 586155, 2379713; 586096, 2379735; 585983, 2379807; 585725, 2379807; 585661, 2379871; 585619, 2379878; 585550, 2379846; 585558, 2379891; 585558, 2379892; 585557, 2379892; 585548, 2379922; 585550, 2379928; 585550, 2379929; 585549, 2379929; 585549, 2379930; 585548, 2379930; 585547, 2379930; 585546, 2379929; 585545, 2379931; 585539, 2379943; 585531, 2379963; 585523, 2379982; 585522, 2379982; 585511, 2380001; 585498, 2380021; 585488, 2380040; 585483, 2380053; 585478, 2380071; 585475, 2380089; 585476, 2380103; 585474, 2380125; 585474, 2380128; 585472, 2380137; 585468, 2380149; 585465, 2380160; 585461, 2380173; 585457, 2380185; 585456, 2380203; 585456, 2380223; 585459, 2380252; 585459, 2380269; 585456, 2380281; 585451, 2380295; 585443, 2380310; 585430, 2380325; 585430, 2380326;

585408, 2380344; 585393, 2380361; 585375, 2380388; 585364, 2380407; 585353, 2380428; 585342, 2380452; 585330, 2380478; 585326, 2380488; 585324, 2380511; 585336, 2380611; 585384, 2380711; 585358, 2380763; 585345, 2380771; 585345, 2380779; 585348, 2380789; 585348, 2380790; 585344, 2380798; 585344, 2380799; 585338, 2380802; 585329, 2380804; 585328, 2380804; 585308, 2380806; 585281, 2380810; 585257, 2380825; 585168, 2380904; 585156, 2380911; 585140, 2380929; 585134, 2380934; 585119, 2380952; 585119, 2380953; 585107, 2380962; 585106, 2380963; 585095, 2380967; 585046, 2381011; 585039, 2381021; 585027, 2381040; 585011, 2381059; 584993, 2381074; 584973, 2381090; 584954, 2381104; 584939, 2381117; 584923, 2381137; 584905, 2381157; 584891, 2381175; 584867, 2381205; 584852, 2381221; 584844, 2381230; 584843, 2381230; 584813, 2381261; 584799, 2381271; 584665, 2381437; 584613, 2381445; 584601, 2381452; 584600, 2381452; 584581, 2381462; 584562, 2381467; 584539, 2381475; 584519, 2381483; 584494, 2381489; 584478, 2381486; 584457, 2381478; 584441, 2381471; 584426, 2381472; 584425, 2381472; 584415, 2381477; 584406, 2381482; 584401, 2381483; 584383, 2381494; 584357, 2381507; 584350, 2381511; 584325, 2381523; 584324, 2381523; 584310, 2381528; 584309, 2381528; 584291, 2381527; 584290, 2381527; 584281, 2381521; 584275, 2381516; 584266, 2381511; 584252, 2381510; 584252, 2381509; 584242, 2381507; 584170, 2381548; 584167, 2381553; 584150, 2381572; 584130, 2381584; 584129, 2381584; 584104, 2381586; 584065, 2381583; 584021, 2381575; 583992, 2381567; 583957, 2381557; 583934, 2381555; 583897, 2381549; 583869, 2381541; 583842, 2381542; 583813, 2381547; 583780, 2381558; 583747, 2381571; 583730, 2381588; 583709, 2381612; 583707, 2381614; 583694, 2381639; 583685, 2381655; 583672, 2381685; 583659, 2381711; 583652, 2381731; 583651, 2381742; 583651, 2381757; 583651, 2381773; 583651, 2381789; 583651, 2381805; 583651, 2381806; 583649, 2381820; 583644, 2381847; 583642, 2381874; 583639, 2381896; 583638, 2381897; 583634, 2381907; 583631, 2381919; 583629, 2381934; 583630, 2381951; 583633, 2381969; 583638, 2381979; 583645, 2381993; 583645, 2381994; 583649, 2382013; 583649, 2382018; 583648, 2382029; 583647, 2382030; 583641, 2382045; 583640, 2382045; 583626, 2382059; 583610, 2382073; 583590, 2382091; 583570, 2382107; 583561, 2382120; 583552, 2382135; 583546, 2382153; 583536, 2382180; 583529, 2382214; 583523, 2382238; 583518, 2382254; 583517, 2382264; 583517, 2382276; 583518, 2382287; 583521, 2382299; 583528, 2382305; 583535, 2382312; 583535, 2382313; 583535, 2382319; 583531, 2382326; 583523, 2382334; 583522, 2382334; 583511, 2382337; 583498, 2382345; 583486, 2382351; 583477, 2382362; 583474, 2382370; 583475, 2382383; 583475, 2382397; 583474, 2382404; 583474, 2382405; 583469, 2382411; 583468, 2382411; 583457, 2382416; 583443, 2382421; 583435, 2382424; 583430, 2382430; 583429, 2382440; 583430, 2382451; 583476, 2382463; 583596, 2382491; 583784, 2382467; 583865, 2382453; 584016, 2382441; 584696, 2382335; 584904, 2382209; 584933, 2382195; 585141, 2382071; 585220, 2381983; 585281, 2381926; 585773, 2381317; 586002, 2381061; 586045, 2381031; 586285, 2380827; 586281, 2380825; 586763, 2380651; 586775, 2380649; 587289, 2380560; 587297, 2380559; 587311, 2380556; 587447, 2380533; 587787, 2380509; 588274, 2381740; 588341, 2381739; 588487, 2381710; 588601, 2380394; 588977, 2380351; 589125, 2380331; 590233, 2380296; 590319, 2380295; 591767, 2380291; 590674, 2380291; 590693, 2380291; 591035, 2380323; 591035, 2380306; 591364, 2380283; 591476, 2380022; 591831, 2379597; 591830, 2379598; 591791, 2379602; 591790, 2379602; 591766, 2379598; 591765, 2379598; 591752, 2379591; 591751, 2379591; 591619, 2379557; 591485, 2379499; 591461, 2379506; 591460, 2379506; 591443, 2379503; 591431, 2379499; 591420, 2379498; 591419, 2379498; 591417, 2379488; 591404, 2379487; 591390, 2379469; 591280, 2379446; 591259, 2379439; 591242, 2379438; 591198, 2379429; 591193, 2379430; 591164, 2379441; 591138, 2379451; 591113, 2379458; 591069, 2379465; 591039, 2379476; 590996, 2379497; 590996, 2379498; 590995, 2379498; 590982, 2379496; 590981, 2379496; 590981, 2379495; 590970, 2379488; 590969, 2379488; 590943, 2379463; 590908, 2379443; 590883, 2379429; 590832, 2379413; 590808, 2379409; 590790, 2379408; 590721, 2379404; 590699, 2379398; 590669, 2379385; 590668, 2379384; 590630, 2379354; 590593, 2379338; 590572, 2379336; 590525, 2379340; 590514, 2379339; 591779, 2379340; 591778, 2379340; 591762, 2379334; 591744, 2379312; 590415, 2379277; 590373, 2379247; 590347, 2379233; 590321, 2379227; 590285, 2379219; 590191, 2379191; 590084, 2379149; 590076, 2379145; 590067, 2379142; 590066, 2379141; 590039, 2379117; return to starting point.

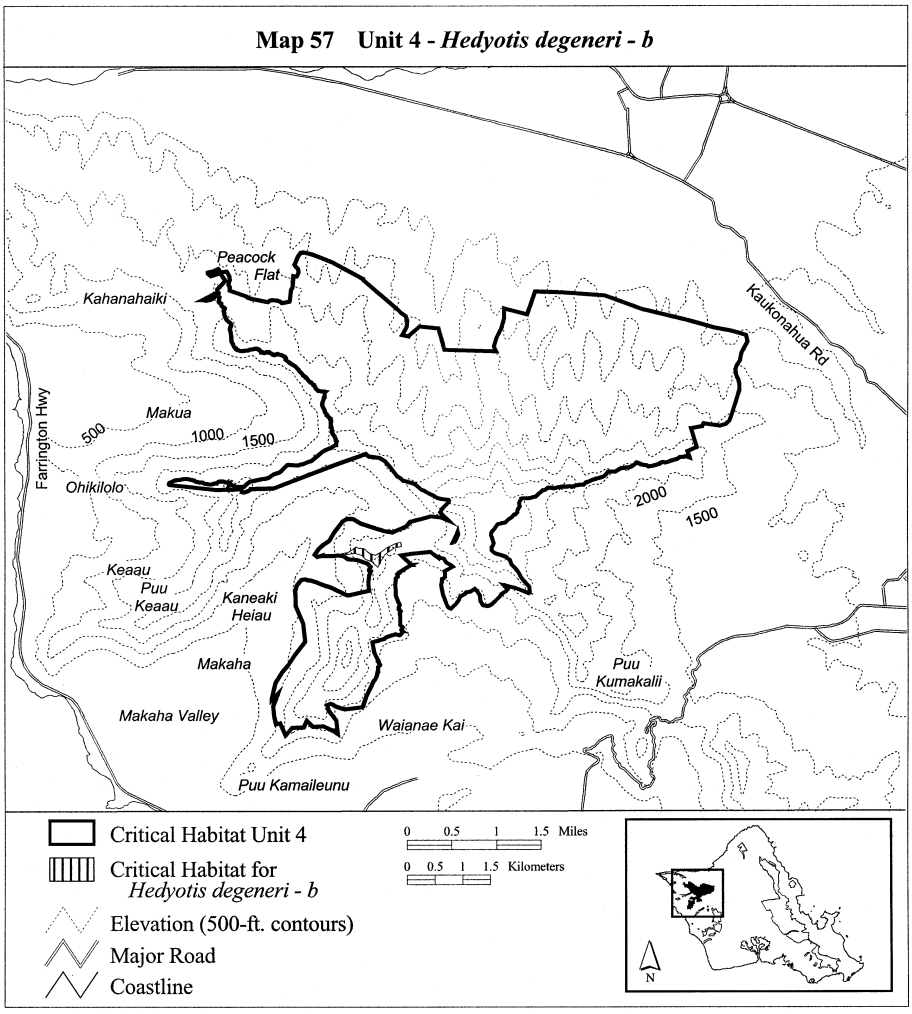
(ii) NOTE: Map 56 follows:



(57) Oahu 4—*Hedyotis degeneri*—b (12 ha; 29 ac)

(i) Unit consists of the following 31 boundary points: Start at 586352, 2377675; 586332, 2377658; 586305, 2377602; 586273, 2377640; 586200, 2377699; 586086, 2377748; 586007, 2377816; 585902, 2377857; 585796, 2377842; 585700, 2377836; 585650, 2377839; 585653, 2377857; 585720, 2377868; 585787, 2377883; 585875, 2377947; 585919, 2377971; 585963, 2377944; 586027, 2377944; 586083, 2377927; 586098, 2377900; 586162, 2377851; 586264, 2377816; 586370, 2377886; 586469, 2377962; 586630, 2378038; 586717, 2378053; 586729, 2377984; 586680, 2377973; 586585, 2377946; 586434, 2377833; 586354, 2377700; return to starting point.

(ii) NOTE: Map 57 follows:

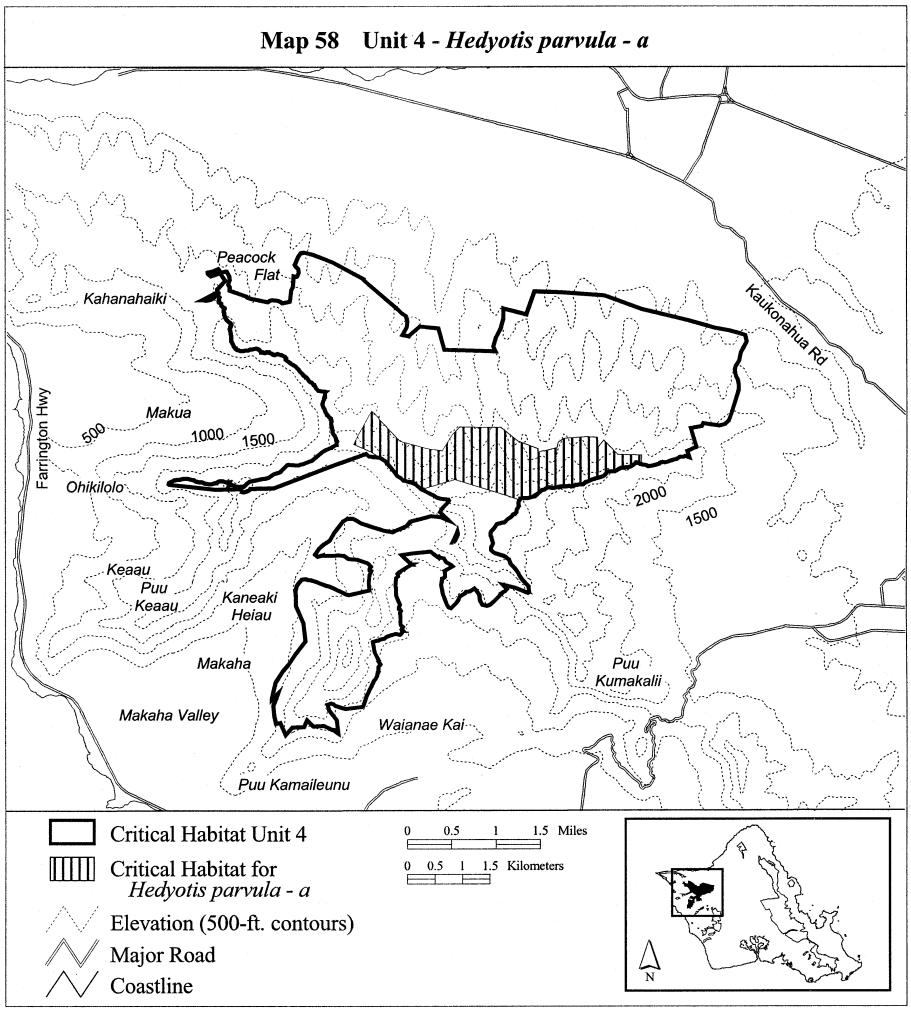


(58) Oahu 4—*Hedyotis parvula*—a (387 ha; 958 ac)

(i) Unit consists of the following 111 boundary points: Start at 589524, 2379043; 589477, 2379034; 589462, 2379034; 589441, 2379042; 589424, 2379047; 589391, 2379048; 589370, 2379041; 589369, 2379041; 589348, 2379025; 589324, 2379009; 589303, 2379003; 589286, 2379001; 589285, 2379001; 589276, 2378998; 589275, 2378998; 589271, 2378994; 589223, 2378985; 589021, 2378858; 589009, 2378857; 588910, 2378852; 588910, 2378851; 588899, 2378848; 588898, 2378848; 588887, 2378841; 588887, 2378840; 588872, 2378818; 588702, 2378884; 587699, 2379193; 587159, 2379038; 587048, 2379065; 587045, 2379095; 586904, 2379179; 586764, 2379173; 586676, 2379263; 586542, 2379397; 586421, 2379532; 586176, 2379699; 585874, 2379837; 585860, 2379838; 585956, 2380034; 586191, 2380443; 586309, 2380325; 586324, 2380341; 586311, 2380311; 586706, 2379887; 587036, 2379801; 587201, 2379758; 587471, 2379718; 587658, 2380020; 587784, 2380156; 587949, 2380153; 588167, 2380149; 588534, 2380143; 588706, 2380004; 588703, 2379964; 588722, 2379990; 588846, 2379891; 589200, 2379754;

589203, 2379694; 589300, 2379716; 589311, 2379711; 589328, 2379722; 589550, 2379771; 589567, 2379874; 589674, 2379941; 590079, 2379973; 590273, 2379963; 590283, 2379771; 590394, 2379904; 590646, 2379643; 591073, 2379636; 591075, 2379464; 591069, 2379465; 591039, 2379476; 590996, 2379497; 590996, 2379498; 590995, 2379498; 590982, 2379496; 590981, 2379496; 590981, 2379495; 590970, 2379488; 590969, 2379488; 590943, 2379463; 590908, 2379443; 590896, 2379436; 590874, 2379427; 590832, 2379413; 590808, 2379409; 590790, 2379408; 590721, 2379404; 590699, 2379398; 590669, 2379385; 590668, 2379384; 590630, 2379354; 590593, 2379338; 590572, 2379336; 590525, 2379340; 590514, 2379339; 590479, 2379340; 590478, 2379340; 590462, 2379334; 590444, 2379312; 590415, 2379277; 590373, 2379247; 590347, 2379233; 590321, 2379227; 590285, 2379219; 590191, 2379191; 590099, 2379155; 589590, 2379056; 589557, 2379052; return to starting point.

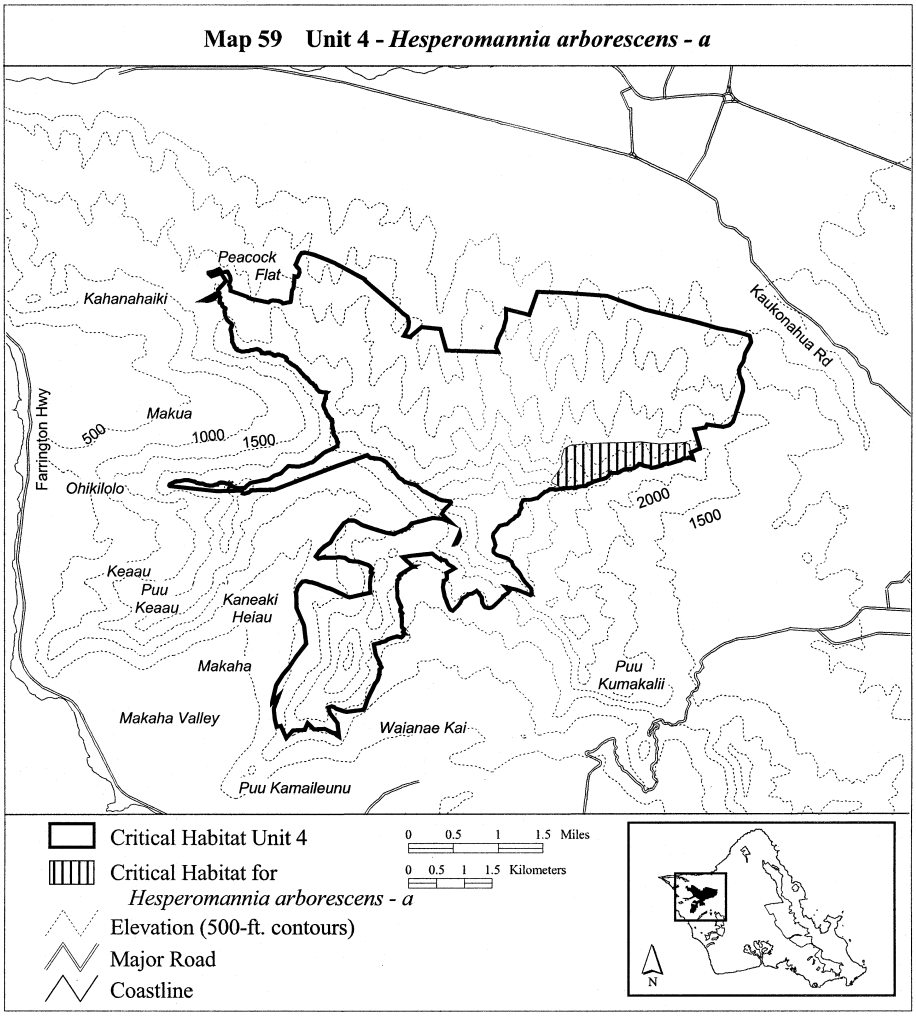
(ii) NOTE: Map 58 follows:



(59) Oahu 4—*Hesperomannia arborescens*—a (125 ha; 308 ac)

(i) Unit consists of the following 82 boundary points: Start at 591935, 2379592; 591870, 2379614; 591821, 2379599; 591791, 2379602; 591790, 2379602; 591766, 2379598; 591765, 2379598; 591740, 2379584; 591709, 2379566; 591635, 2379543; 591613, 2379538; 591582, 2379527; 591581, 2379526; 591567, 2379517; 591504, 2379497; 591500, 2379496; 591496, 2379496; 591461, 2379506; 591460, 2379506; 591443, 2379503; 591431, 2379499; 591420, 2379498; 591419, 2379498; 591404, 2379488; 591404, 2379487; 591395, 2379475; 591235, 2379445; 591091, 2379479; 591026, 2379482; 590996, 2379497; 590996, 2379498; 590995, 2379498; 590982, 2379496; 590981, 2379496; 590981, 2379495; 590970, 2379488; 590969, 2379488; 590943, 2379463; 590908, 2379443; 590883, 2379429; 590832, 2379413; 590808, 2379409; 590790, 2379408; 590721, 2379404; 590699, 2379398; 590698, 2379398; 590669, 2379385; 590668, 2379384; 590641, 2379362; 590534, 2379339; 590525, 2379340; 590514, 2379339; 590479, 2379340; 590478, 2379340; 590462, 2379334; 590444, 2379312; 590415, 2379277; 590396, 2379264; 590308, 2379227; 590232, 2379203; 590191, 2379191; 590187, 2379189; 590056, 2379149; 589821, 2379079; 589613, 2379066; 589594, 2379063; 589406, 2379168; 589408, 2379201; 589491, 2379323; 589582, 2379471; 589578, 2379631; 589630, 2379784; 589747, 2379845; 589991, 2379862; 590282, 2379879; 590739, 2379888; 591022, 2379897; 591330, 2379866; 591565, 2379871; 591800, 2379892; 591878, 2379858; 591896, 2379718; return to starting point.

(ii) NOTE: Map 59 follows:

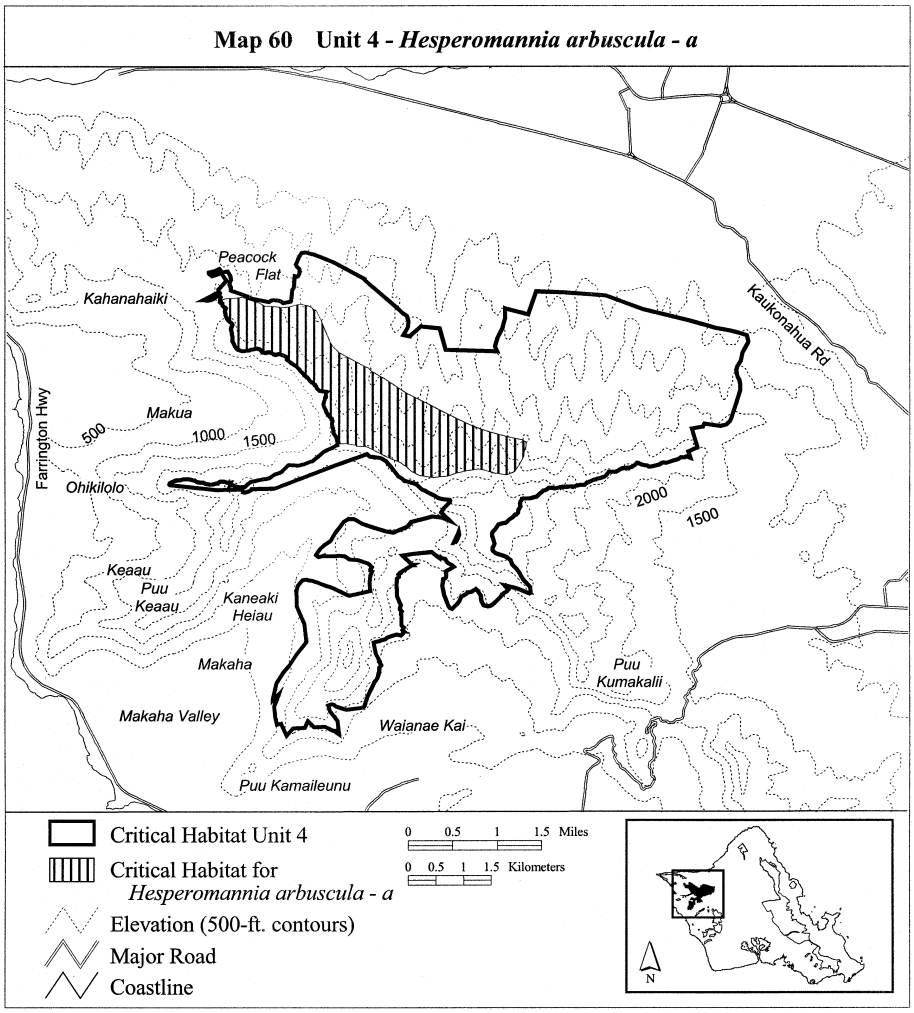


(60) Oahu 4—*Hesperomannia arbuscula*—a (596 ha; 1,472 ac)

(i) Unit consists of the following 289 boundary points: Start at 583882, 2381544; 583799, 2381556; 583764, 2381564; 583747, 2381571; 583730, 2381588; 583709, 2381612; 583707, 2381614; 583694, 2381639; 583685, 2381655; 583672, 2381685; 583659, 2381711; 583652, 2381731; 583651, 2381742; 583651, 2381757; 583651, 2381773; 583651, 2381789; 583651, 2381805; 583651, 2381806; 583649, 2381820; 583644, 2381847; 583642, 2381874; 583639, 2381896; 583638, 2381897; 583634, 2381907; 583631, 2381919; 583629, 2381934; 583630, 2381951; 583633, 2381969; 583638, 2381979; 583645, 2381993; 583645, 2381994; 583649, 2382013; 583649, 2382018; 583648, 2382029; 583647, 2382030; 583641, 2382045; 583640, 2382045; 583626, 2382059; 583610, 2382073; 583590, 2382091; 583570, 2382107; 583561, 2382120; 583552, 2382135; 583546, 2382153; 583536, 2382180; 583529, 2382214; 583523, 2382238; 583523, 2382239; 583518, 2382254; 583517, 2382264; 583517, 2382276; 583518, 2382287; 583521, 2382299; 583528, 2382305; 583535, 2382312; 583535, 2382313; 583535, 2382319; 583531, 2382326;

583523, 2382334; 583522, 2382334; 583511, 2382337; 583498, 2382345; 583497, 2382345; 583486, 2382351; 583477, 2382362; 583474, 2382370; 583475, 2382383; 583475, 2382397; 583474, 2382417; 583474, 2382405; 583469, 2382411; 583468, 2382411; 583457, 2382416; 583443, 2382421; 583435, 2382424; 583430, 2382430; 583429, 2382440; 583430, 2382455; 583530, 2382499; 583719, 2382510; 583836, 2382521; 583970, 2382474; 584145, 2382415; 584247, 2382364; 584328, 2382361; 584536, 2382332; 584605, 2382332; 584700, 2382353; 584802, 2382379; 584893, 2382397; 585046, 2382364; 585105, 2382317; 585166, 2382284; 585261, 2382091; 585407, 2381723; 585483, 2381614; 585582, 2381519; 585800, 2381399; 586026, 2381275; 586114, 2381231; 586157, 2381184; 586363, 2381060; 586369, 2381064; 586802, 2380776; 587167, 2380586; 587495, 2380415; 587717, 2380306; 587957, 2380186; 588030, 2380175; 588030, 2380165; 588198, 2380098; 588318, 2380062; 588573, 2379993; 588781, 2379945; 588886, 2379923; 588955, 2379880; 588955, 2379792; 588918, 2379690; 588918, 2379614; 588853, 2379479; 588758, 2379348; 588612, 2379286; 588361, 2379318; 588193, 2379370; 588087, 2379391; 588007, 2379374; 588007, 2379373; 588003, 2379372; 587989, 2379370; 587989, 2379371; 587902, 2379359; 587690, 2379311; 587556, 2379264; 587271, 2379235; 587035, 2379271; 586892, 2379348; 586783, 2379435; 586688, 2379512; 586550, 2379559; 586437, 2379614; 586280, 2379697; 586098, 2379788; 585985, 2379810; 585898, 2379803; 585876, 2379829; 585716, 2379850; 585588, 2379850; 585557, 2379890; 585558, 2379891; 585558, 2379892; 585557, 2379892; 585548, 2379922; 585550, 2379928; 585550, 2379929; 585549, 2379929; 585549, 2379930; 585548, 2379930; 585547, 2379930; 585546, 2379929; 585545, 2379931; 585539, 2379943; 585531, 2379963; 585523, 2379982; 585522, 2379982; 585511, 2380001; 585509, 2380004; 585504, 2380029; 585480, 2380063; 585478, 2380071; 585475, 2380089; 585476, 2380103; 585474, 2380125; 585474, 2380128; 585472, 2380137; 585468, 2380149; 585465, 2380160; 585461, 2380173; 585457, 2380185; 585456, 2380203; 585456, 2380223; 585459, 2380252; 585459, 2380269; 585456, 2380281; 585451, 2380295; 585443, 2380310; 585430, 2380325; 585430, 2380326; 585408, 2380344; 585400, 2380353; 585402, 2380382; 585445, 2380413; 585391, 2380375; 585350, 2380434; 585342, 2380452; 585330, 2380478; 585322, 2380497; 585318, 2380512; 585308, 2380533; 585299, 2380553; 585297, 2380570; 585300, 2380580; 585303, 2380592; 585309, 2380613; 585312, 2380624; 585355, 2380732; 585356, 2380787; 585348, 2380789; 585348, 2380790; 585344, 2380798; 585344, 2380799; 585338, 2380802; 585329, 2380804; 585328, 2380804; 585308, 2380806; 585279, 2380811; 585252, 2380816; 585222, 2380825; 585208, 2380833; 585194, 2380847; 585183, 2380863; 585167, 2380888; 585157, 2380904; 585138, 2380929; 585119, 2380952; 585119, 2380953; 585107, 2380962; 585106, 2380963; 585034, 2381030; 585027, 2381040; 585011, 2381059; 584993, 2381074; 584993, 2381075; 584973, 2381090; 584955, 2381103; 584937, 2381120; 584923, 2381137; 584905, 2381157; 584891, 2381175; 584867, 2381205; 584852, 2381221; 584844, 2381230; 584843, 2381230; 584813, 2381261; 584796, 2381273; 584778, 2381284; 584774, 2381287; 584751, 2381303; 584728, 2381318; 584715, 2381325; 584706, 2381333; 584641, 2381428; 584624, 2381434; 584618, 2381442; 584617, 2381442; 584601, 2381452; 584581, 2381462; 584562, 2381467; 584539, 2381475; 584519, 2381483; 584494, 2381489; 584478, 2381486; 584461, 2381479; 584415, 2381486; 584386, 2381492; 584383, 2381494; 584357, 2381507; 584350, 2381511; 584325, 2381523; 584324, 2381523; 584310, 2381528; 584309, 2381528; 584291, 2381527; 584290, 2381527; 584281, 2381521; 584275, 2381516; 584273, 2381515; 584269, 2381515; 584174, 2381559; 584160, 2381560; 584150, 2381572; 584130, 2381584; 584129, 2381584; 584104, 2381586; 584065, 2381583; 584021, 2381575; 583992, 2381567; 583957, 2381557; 583934, 2381555; 583897, 2381549; return to starting point.

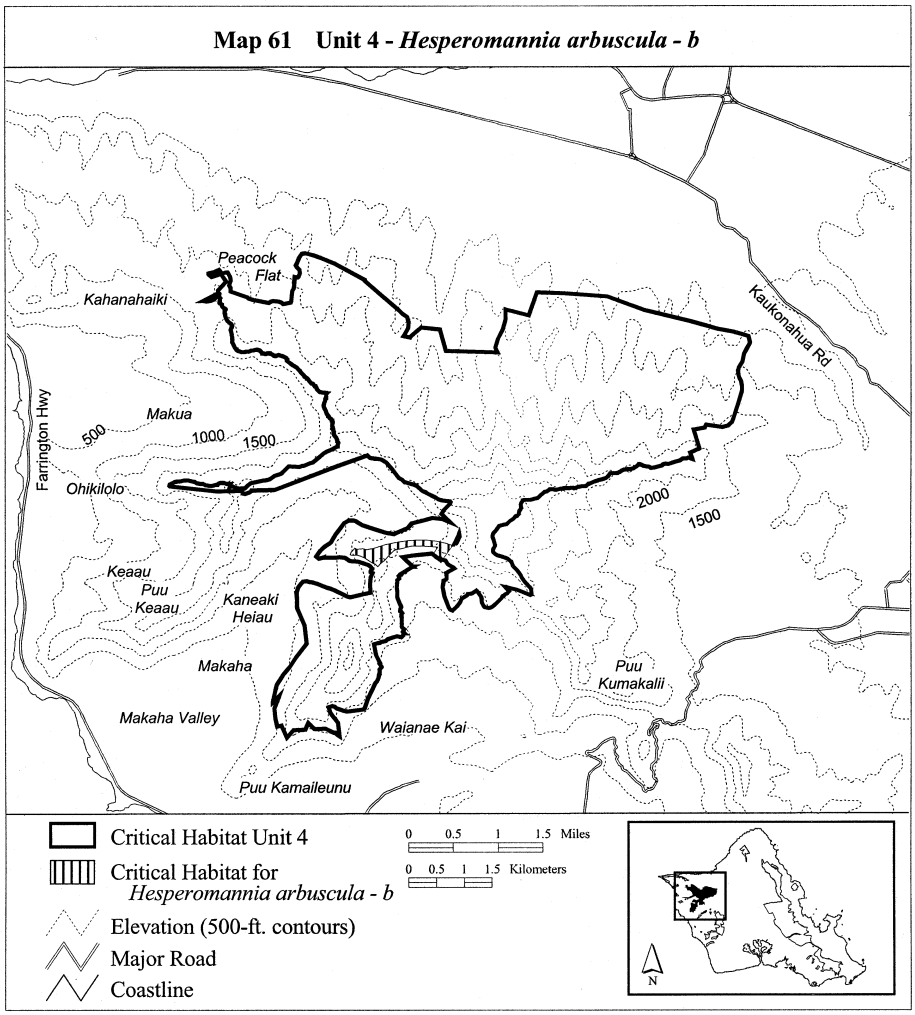
(ii) NOTE: Map 60 follows:



(61) Oahu 4—*Hesperomannia arbuscula*—b (31 ha; 78 ac)

(i) Unit consists of the following 35 boundary points: Start at 585893, 2377968; 586006, 2377974; 586069, 2377958; 586208, 2377978; 586416, 2378047; 586624, 2378090; 586810, 2378123; 586965, 2378130; 587150, 2378130; 587336, 2378110; 587498, 2378077; 587620, 2378030; 587622, 2378022; 587460, 2377788; 587277, 2377877; 587356, 2378000; 587078, 2378018; 586882, 2378021; 586704, 2377975; 586578, 2377945; 586471, 2377850; 586396, 2377759; 586327, 2377703; 586274, 2377650; 586237, 2377680; 586168, 2377720; 586098, 2377766; 586046, 2377796; 585966, 2377839; 585910, 2377855; 585847, 2377852; 585788, 2377855; 585778, 2377865; 585801, 2377911; 585864, 2377981; return to starting point.

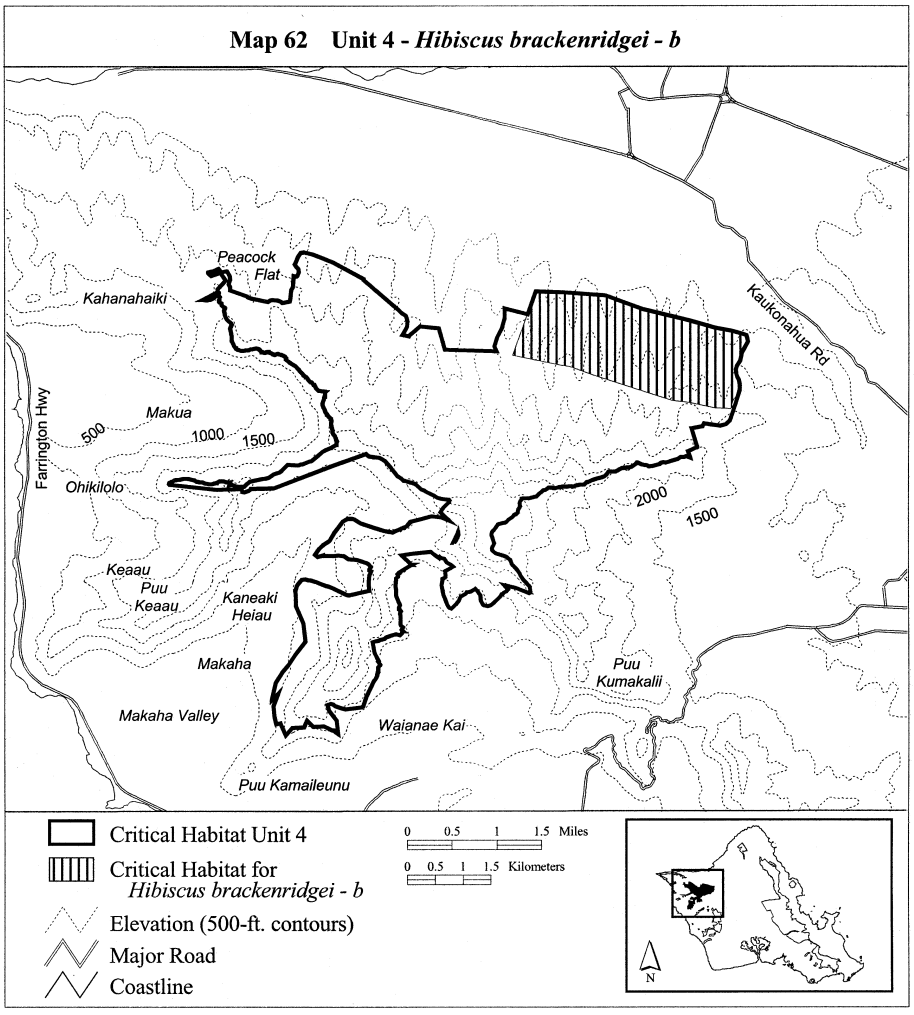
(ii) NOTE: Map 61 follows:



(62) Oahu 4—*Hibiscus brackenridgei*—b (560 ha; 1,385 ac)

(i) Unit consists of the following 35 boundary points: Start at 590390, 2382551; 591054, 2382306; 591908, 2382094; 592162, 2382021; 592395, 2381959; 592679, 2381908; 592850, 2381861; 592959, 2381825; 592985, 2381706; 592917, 2381592; 592871, 2381504; 592845, 2381364; 592788, 2381266; 592762, 2381188; 592757, 2381116; 592819, 2381017; 592840, 2380924; 592840, 2380826; 592793, 2380717; 592731, 2380650; 592695, 2380562; 592705, 2380520; 592679, 2380479; 592596, 2380489; 592389, 2380495; 592219, 2380531; 591908, 2380598; 591618, 2380639; 591380, 2380707; 590226, 2381090; 589766, 2381250; 589585, 2381276; 588725, 2381459; 589141, 2382625; 589622, 2382606; return to starting point.

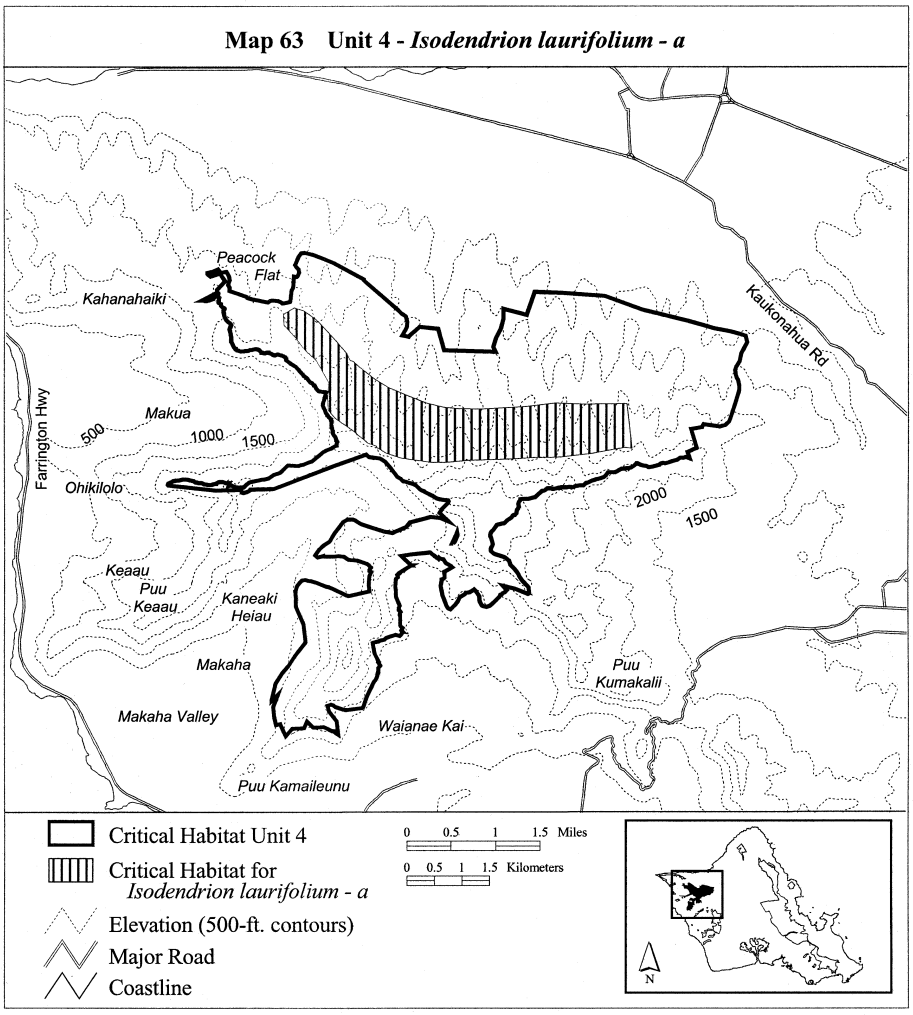
(ii) NOTE: Map 62 follows:



(63) Oahu 4—*Isodendrion laurifolium*—a (617 ha; 1,524 ac)

(i) Unit consists of the following 54 boundary points: Start at 586829, 2380741; 587186, 2380602; 587492, 2380524; 587782, 2380496; 588189, 2380491; 588963, 2380535; 589515, 2380602; 590027, 2380585; 590807, 2380591; 590891, 2379772; 590779, 2379788; 590445, 2379738; 590172, 2379677; 589854, 2379644; 589620, 2379616; 589408, 2379605; 589163, 2379610; 588728, 2379577; 588300, 2379566; 587959, 2379554; 587541, 2379515; 587268, 2379521; 586934, 2379566; 586716, 2379599; 586449, 2379694; 586276, 2379794; 586280, 2379814; 586137, 2379866; 585947, 2380006; 585830, 2380112; 585708, 2380201; 585546, 2380307; 585396, 2380474; 585385, 2380708; 585402, 2380981; 585302, 2381154; 585179, 2381382; 584973, 2381583; 584795, 2381811; 584594, 2382029; 584589, 2382213; 584789, 2382330; 584962, 2382280; 585073, 2382201; 585179, 2382129; 585307, 2381990; 585469, 2381817; 585625, 2381639; 585731, 2381505; 585798, 2381382; 585848, 2381366; 585965, 2381260; 586249, 2381037; 586489, 2380892; return to starting point.

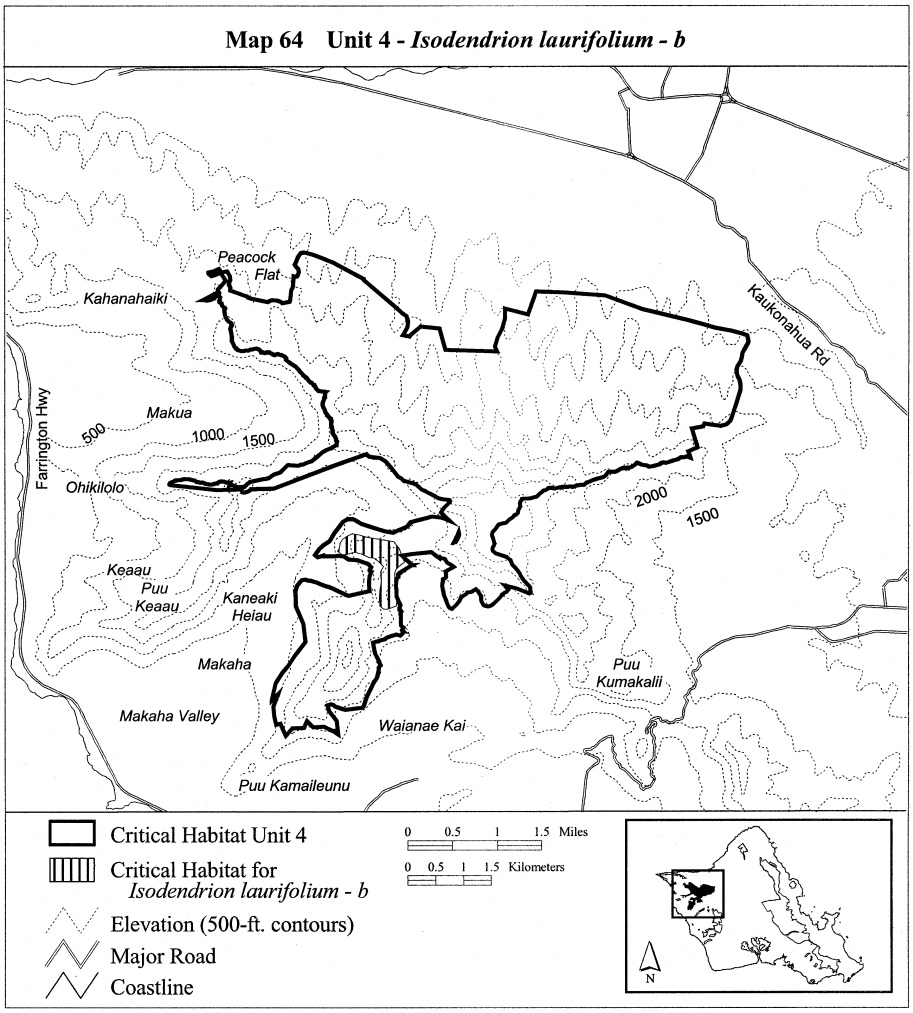
(ii) NOTE: Map 63 follows:



(64) Oahu 4—*Isodendrion laurifolium*—b (62 ha; 154 ac)

(i) Unit consists of the following 43 boundary points: Start at 586591, 2378074; 586586, 2378057; 586673, 2377968; 586668, 2377967; 586669, 2377967; 586771, 2377694; 586772, 2377693; 586771, 2377693; 586772, 2377690; 586750, 2377686; 586684, 2377637; 586618, 2377556; 586598, 2377498; 586591, 2377359; 586626, 2377192; 586622, 2377072; 586637, 2376972; 586637, 2376914; 586571, 2376879; 586479, 2376848; 586401, 2376848; 586331, 2376898; 586316, 2377018; 586328, 2377169; 586355, 2377339; 586339, 2377529; 586399, 2377621; 586326, 2377693; 586326, 2377694; 586235, 2377769; 586138, 2377784; 586014, 2377846; 585875, 2377885; 585782, 2377854; 585662, 2377827; 585573, 2377904; 585597, 2377935; 585612, 2378036; 585658, 2378121; 585743, 2378171; 585836, 2378217; 585948, 2378198; 586088, 2378152; return to starting point.

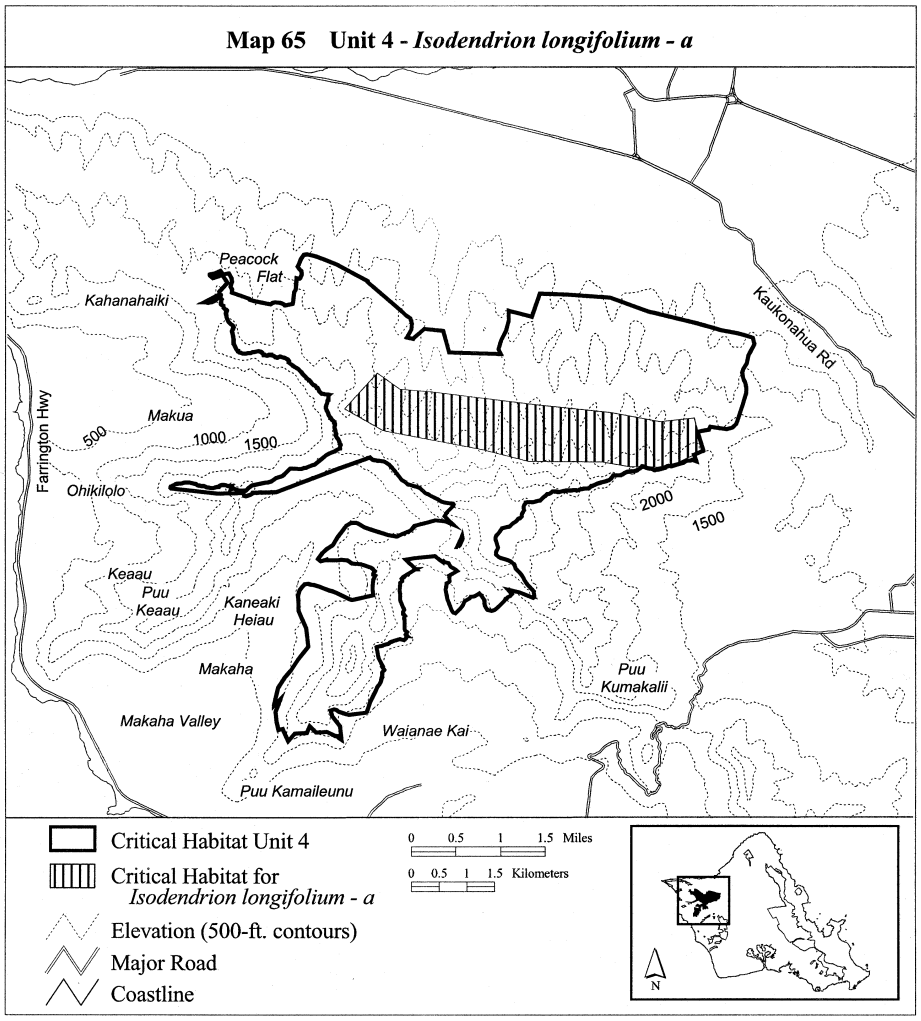
(ii) NOTE: Map 64 follows:



(65) Oahu 4—*Isodendrion longifolium*—a (552 ha; 1,363 ac)

(i) Unit consists of the following 18 boundary points: Start at 585636, 2380541; 586214, 2381188; 586627, 2380899; 587191, 2380857; 589008, 2380623; 590425, 2380472; 591292, 2380307; 591898, 2380376; 592063, 2379784; 591609, 2379563; 591251, 2379481; 590987, 2379504; 590755, 2379495; 590246, 2379577; 588938, 2379591; 588086, 2379811; 586764, 2380059; 586323, 2380142; return to starting point.

(ii) NOTE: Map 65 follows:

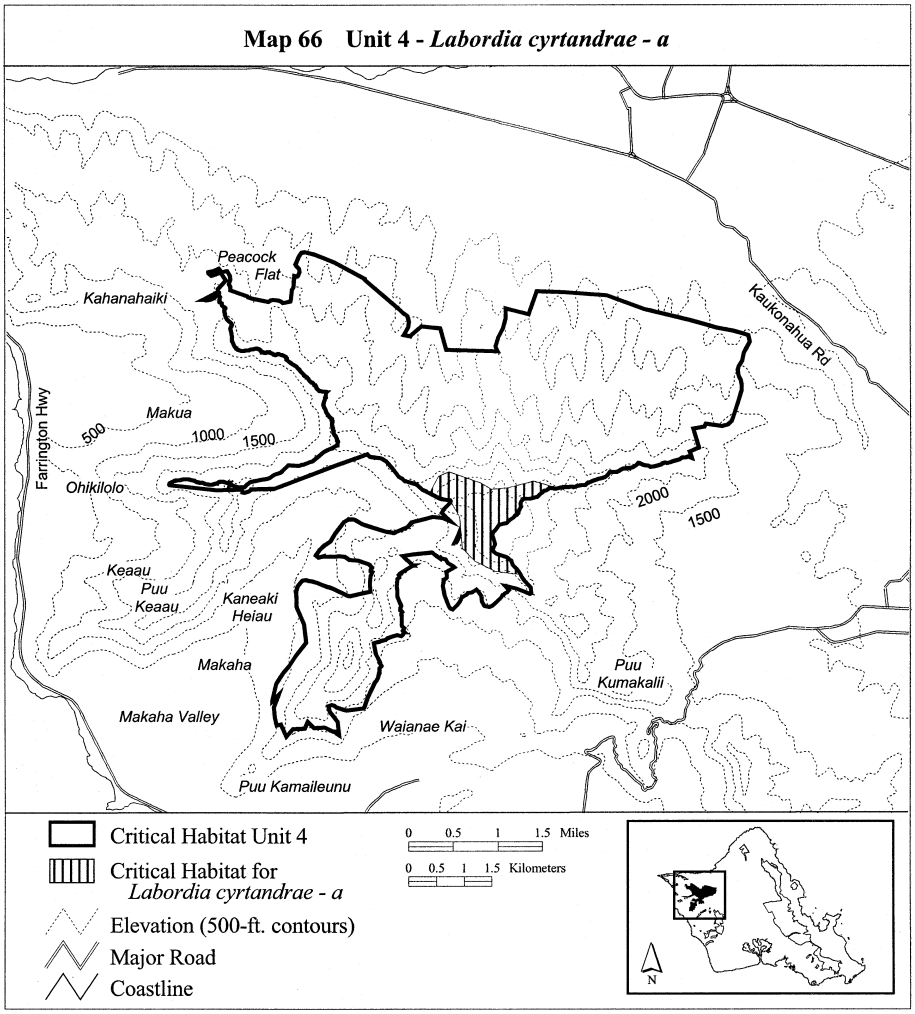


(66) Oahu 4—*Labordia cyrtandrae*—a (161 ha; 397 ac)

(i) Area consists of the following 114 boundary points: Start at 588702, 2378502; 588659, 2378471; 588616, 2378430; 588583, 2378413; 588562, 2378406; 588530, 2378399; 588483, 2378388; 588466, 2378385; 588465, 2378385; 588458, 2378380; 588394, 2378294; 588360, 2378255; 588348, 2378235; 588348, 2378234; 588343, 2378210; 588343, 2378187; 588343, 2378186; 588348, 2378161; 588348, 2378160; 588372, 2378097; 588383, 2378041; 588383, 2378026; 588379, 2378003; 588362, 2377972; 588350, 2377942; 588350, 2377941; 588352, 2377924; 588352, 2377923; 588360, 2377904; 588361, 2377903; 588368, 2377893; 588406, 2377863; 588407, 2377863; 588443, 2377848; 588444, 2377848; 588503, 2377826; 588587, 2377797; 588594, 2377793; 588594, 2377792; 588605, 2377788; 588624, 2377778; 588662, 2377749; 588673, 2377733; 588684, 2377709; 588691, 2377689; 588691, 2377688; 588708, 2377657; 588735, 2377626; 588736, 2377625; 588762, 2377601; 588787, 2377570; 588816, 2377534; 588841, 2377494; 588810, 2377480; 588752, 2377488; 588394,

2377535; 588024, 2377726; 587797, 2377965; 587750, 2378526; 587571, 2378836; 587213, 2378967; 587368, 2379265; 587559, 2379349; 588119, 2379146; 588322, 2379027; 588621, 2379051; 589098, 2379170; 589451, 2379064; 589446, 2379060; 589427, 2379046; 589424, 2379047; 589391, 2379048; 589370, 2379041; 589369, 2379041; 589348, 2379025; 589324, 2379009; 589303, 2379003; 589286, 2379001; 589285, 2379001; 589276, 2378998; 589275, 2378998; 589245, 2378974; 589217, 2378943; 589164, 2378898; 589149, 2378886; 589123, 2378879; 589060, 2378862; 589009, 2378857; 588910, 2378852; 588910, 2378851; 588899, 2378848; 588898, 2378848; 588887, 2378841; 588887, 2378840; 588862, 2378802; 588851, 2378772; 588851, 2378763; 588851, 2378746; 588855, 2378710; 588838, 2378677; 588825, 2378656; 588815, 2378615; 588815, 2378614; 588814, 2378597; 588767, 2378640; 588765, 2378640; 588695, 2378577; 588695, 2378576; 588694, 2378576; 588675, 2378552; 588667, 2378540; 588667, 2378538; 588686, 2378515; 588686, 2378514; return to starting point.

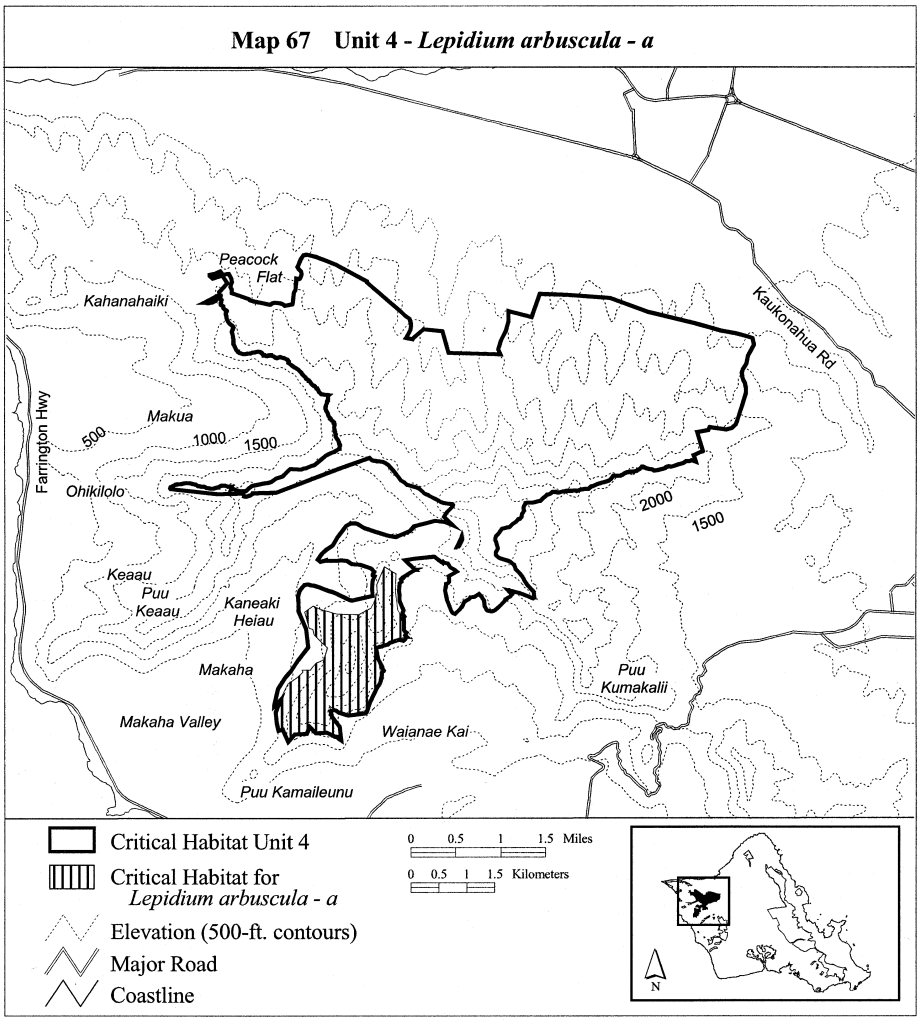
(ii) NOTE: Map 66 follows:



(67) Oahu 4—*Lepidium arbuscula*—a (329 ha; 813 ac)

(i) Unit consists of the following 59 boundary points: Start at 586225, 2377240; 586216, 2377374; 586354, 2377705; 586562, 2377571; 586551, 2377255; 586596, 2376916; 586697, 2376755; 586711, 2376435; 586714, 2376433; 586693, 2376424; 586634, 2376388; 586634, 2376389; 586454, 2376338; 586201, 2376249; 586302, 2375690; 586018, 2375108; 585683, 2375026; 585530, 2375075; 585368, 2375194; 585411, 2374997; 585551, 2374818; 585578, 2374579; 585526, 2374607; 585510, 2374636; 585509, 2374637; 585467, 2374638; 585325, 2374713; 585128, 2374699; 585020, 2374810; 584964, 2374691; 584752, 2374684; 584633, 2374546; 584531, 2374770; 584459, 2374749; 584427, 2374883; 584408, 2375073; 584493, 2375310; 584635, 2375594; 584777, 2375689; 584901, 2375803; 584881, 2375836; 585037, 2375840; 585035, 2375843; 585138, 2375964; 585193, 2375992; 585198, 2375992; 585198, 2375994; 585270, 2376030; 585337, 2376239; 585100, 2376476; 585072, 2376573; 585003, 2376595; 584927, 2376885; 585083, 2376990; 585195, 2376934; 585508, 2376845; 585899, 2376841; 586115, 2376952; 586157, 2377037; return to starting point.

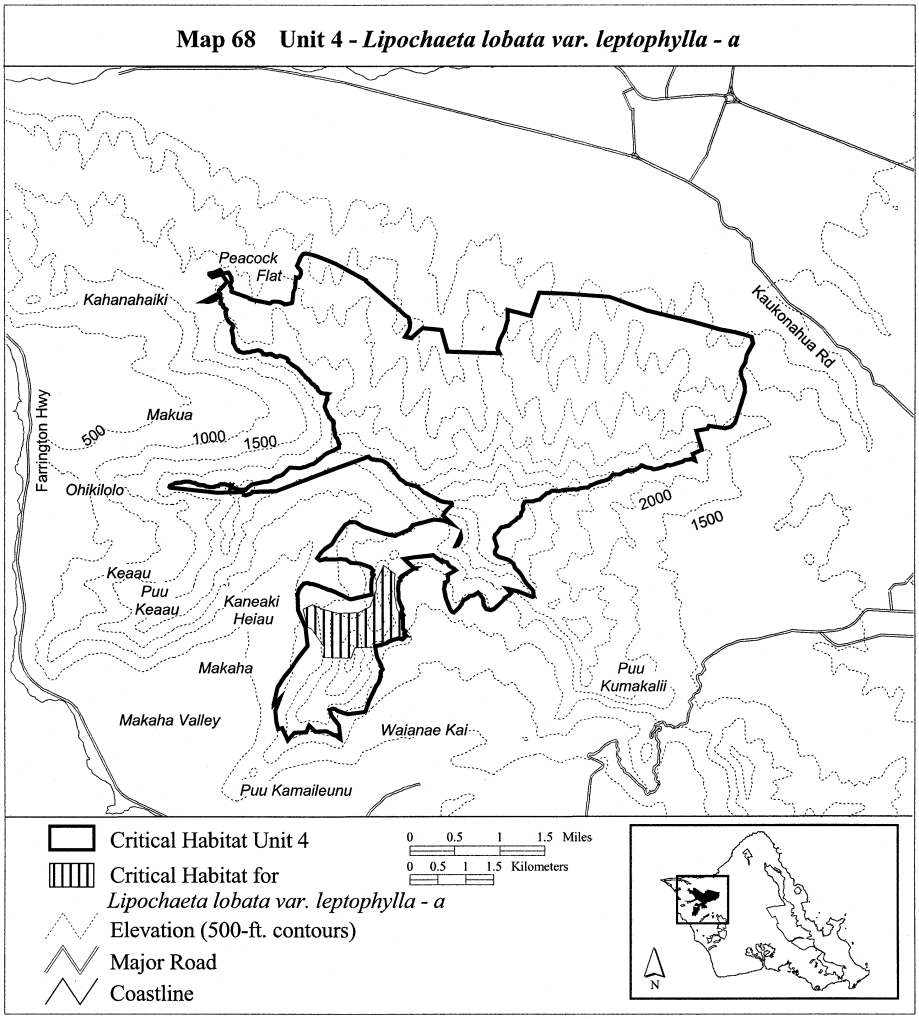
(ii) NOTE: Map 67 follows:



(68) Oahu 4—*Lipochaeta lobata* var. *leptophylla*—a (139 ha; 344 ac)

(i) Unit consists of the following 23 boundary points: Start at 586225, 2377399; 586356, 2377699; 586563, 2377545; 586548, 2377345; 586548, 2377199; 586594, 2376915; 586702, 2376738; 586702, 2376422; 586187, 2376230; 585840, 2376222; 585779, 2376030; 585271, 2376038; 585289, 2376232; 585094, 2376499; 585056, 2376568; 584986, 2376584; 584909, 2376907; 585079, 2376992; 585240, 2376922; 585525, 2376838; 585910, 2376845; 586117, 2376953; 586225, 2377253; return to starting point.

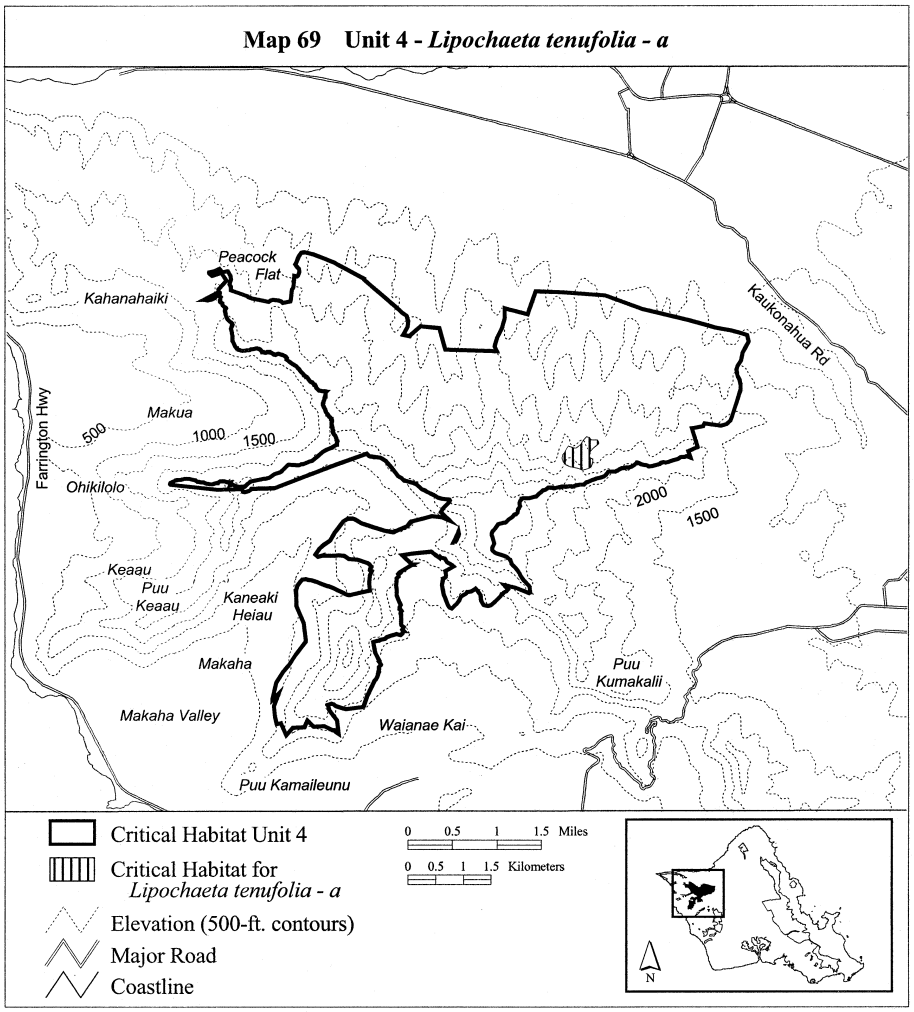
(ii) NOTE: Map 68 follows:



(69) Oahu 4—*Lipochaeta tenuifolia*—a (23 ha; 57 ac)

(i) Unit consists of the following 32 boundary points: Start at 590120, 2379962; 590149, 2379920; 590199, 2379920; 590266, 2379920; 590282, 2379874; 590282, 2379849; 590241, 2379812; 590179, 2379750; 590133, 2379692; 590125, 2379629; 590125, 2379596; 590174, 2379559; 590179, 2379513; 590145, 2379422; 590120, 2379401; 589996, 2379359; 589929, 2379388; 589850, 2379413; 589755, 2379426; 589713, 2379451; 589684, 2379463; 589643, 2379521; 589622, 2379584; 589630, 2379633; 589676, 2379700; 589705, 2379750; 589738, 2379795; 589825, 2379775; 589879, 2379762; 589958, 2379829; 590004, 2379899; 590071, 2379974; return to starting point.

(ii) NOTE: Map 69 follows:

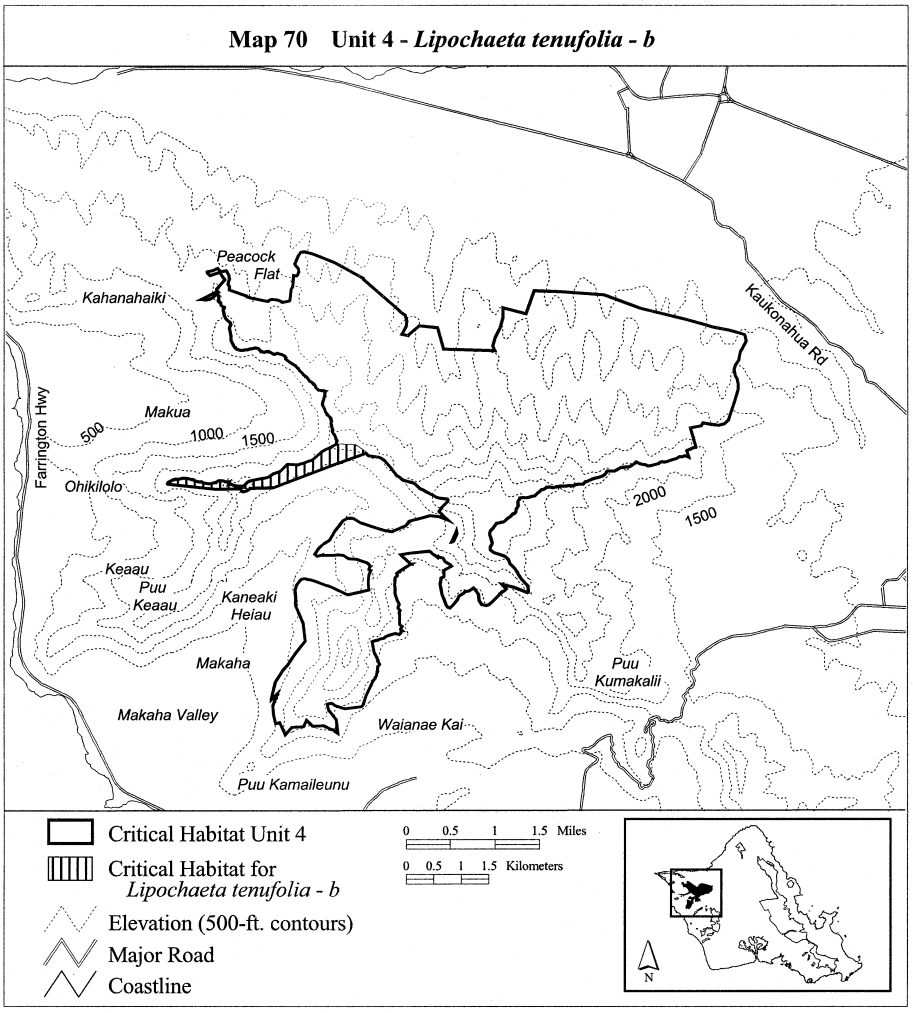


(70) Oahu 4—*Lipochaeta tenuifolia*—b (67 ha; 166 ac)

(i) Unit consists of the following 109 boundary points: Start at 585469, 2379778; 585483, 2379787; 585584, 2379839; 585909, 2379825; 586116, 2379671; 585534, 2379466; 584413, 2379036; 583371, 2379010; 582537, 2379101; 582523, 2379101; 582515, 2379109; 582526, 2379139; 582546, 2379144; 582547, 2379144; 582564, 2379150; 582564, 2379151; 582581, 2379157; 582597, 2379168; 582617, 2379177; 582636, 2379181; 582645, 2379183; 582656, 2379186; 582691, 2379191; 582710, 2379193; 582711, 2379193; 582744, 2379201; 582784, 2379205; 582809, 2379208; 582836, 2379208; 582861, 2379206; 582900, 2379202; 582936, 2379193; 582962, 2379185; 582982, 2379177; 583001, 2379166; 583017, 2379157; 583018, 2379156; 583040, 2379150; 583041, 2379150; 583062, 2379147; 583082, 2379147; 583108, 2379146; 583127, 2379141; 583141, 2379136; 583154, 2379131; 583179, 2379122; 583180, 2379122; 583211, 2379117; 583238, 2379112; 583261, 2379110; 583287, 2379111; 583322, 2379118; 583349, 2379124; 583371, 2379128; 583383, 2379131; 583383, 2379132; 583400, 2379142; 583418, 2379154;

583435, 2379162; 583448, 2379164; 583469, 2379167; 583485, 2379166; 583506, 2379162; 583534, 2379155; 583557, 2379148; 583558, 2379148; 583595, 2379145; 583614, 2379141; 583615, 2379141; 583629, 2379145; 583616, 2379115; 583606, 2379089; 583606, 2379088; 583606, 2379087; 583607, 2379087; 583608, 2379087; 583666, 2379100; 583695, 2379080; 583725, 2379070; 583726, 2379070; 583796, 2379060; 583876, 2379060; 583877, 2379060; 583877, 2379061; 583947, 2379131; 583977, 2379150; 584086, 2379180; 584226, 2379210; 584256, 2379210; 584326, 2379230; 584327, 2379230; 584417, 2379290; 584526, 2379330; 584527, 2379330; 584557, 2379350; 584657, 2379450; 584667, 2379460; 584836, 2379450; 584866, 2379450; 584867, 2379450; 584906, 2379470; 584936, 2379470; 584937, 2379470; 585107, 2379540; 585217, 2379630; 585297, 2379700; 585357, 2379740; 585456, 2379770; 585457, 2379770; return to starting point.

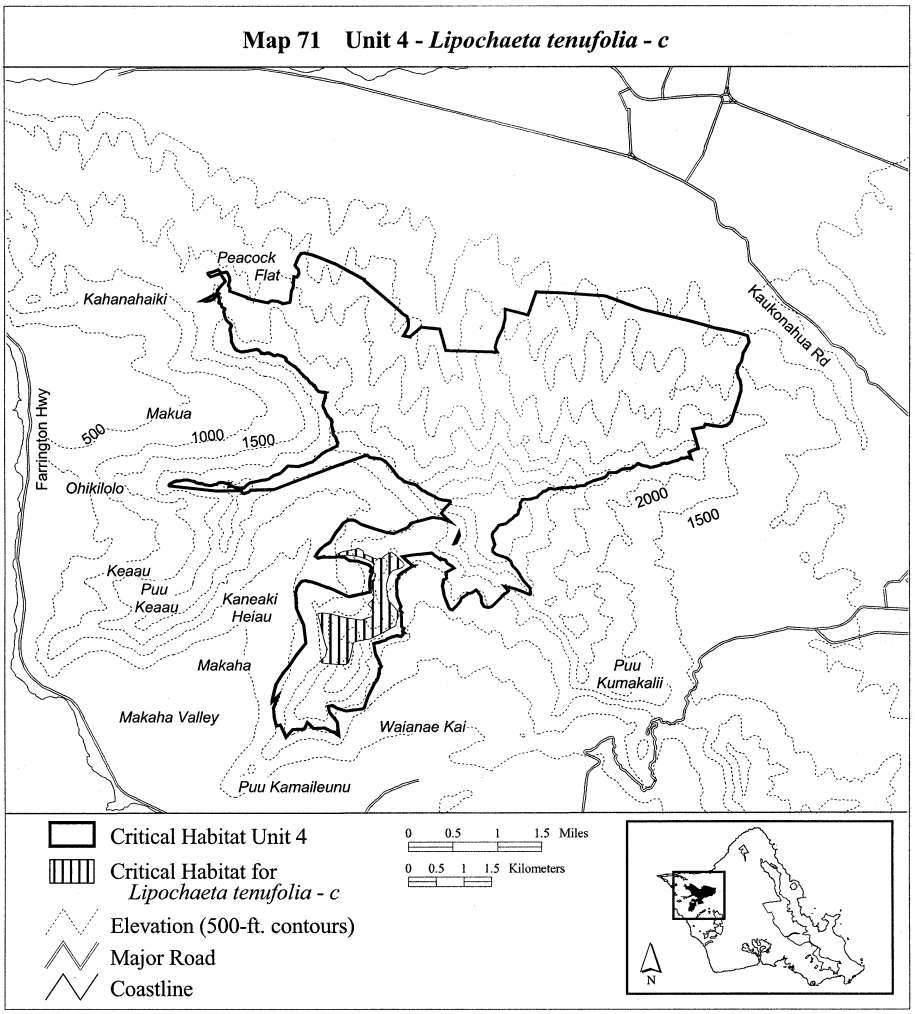
(ii) NOTE: Map 70 follows:



(71) Oahu 4—*Lipochaeta tenuifolia*—c (118 ha; 293 ac)

(i) Unit consists of the following 91 boundary points: Start at 585520, 2377857; 585626, 2377904; 585688, 2377923; 585760, 2377926; 585878, 2377957; 585925, 2377973; 586009, 2377932; 586030, 2377867; 586114, 2377836; 586202, 2377789; 586279, 2377773; 586351, 2377792; 586410, 2377839; 586460, 2377873; 586522, 2377898; 586575, 2377867; 586644, 2377801; 586737, 2377721; 586762, 2377661; 586737, 2377624; 586665, 2377602; 586553, 2377565; 586476, 2377468; 586435, 2377310; 586441, 2377163; 586469, 2377017; 586544, 2376942; 586641, 2376824; 586647, 2376715; 586616, 2376637; 586603, 2376569; 586376, 2376435; 586155, 2376332; 585946, 2376292; 585844, 2376264; 585816, 2376133; 585785, 2375981; 585788, 2375981; 585782, 2375967; 585781, 2375962; 585753, 2375890; 585710, 2375865; 585579, 2375868; 585448, 2375875; 585321, 2375881; 585274, 2375890; 585259, 2375909; 585262, 2375946; 585290, 2375968; 585343, 2376012; 585364, 2376096; 585364, 2376155; 585376, 2376121; 585336, 2376248; 585274, 2376485; 585237, 2376665; 585206, 2376756; 585218, 2376793; 585287, 2376799; 585448, 2376777; 585710, 2376712; 585981, 2376665; 586058, 2376690; 586171, 2376724; 586183, 2376768; 586177, 2376843; 586161, 2376896; 586105, 2376945; 586127, 2376973; 586167, 2377020; 586208, 2377064; 586205, 2377148; 586177, 2377241; 586143, 2377266; 586130, 2377310; 586139, 2377350; 586211, 2377406; 586239, 2377447; 586230, 2377509; 586205, 2377518; 586143, 2377543; 586143, 2377559; 586164, 2377593; 586205, 2377640; 586205, 2377689; 586161, 2377730; 586099, 2377767; 585974, 2377811; 585862, 2377829; 585747, 2377842; 585539, 2377833; return to starting point.

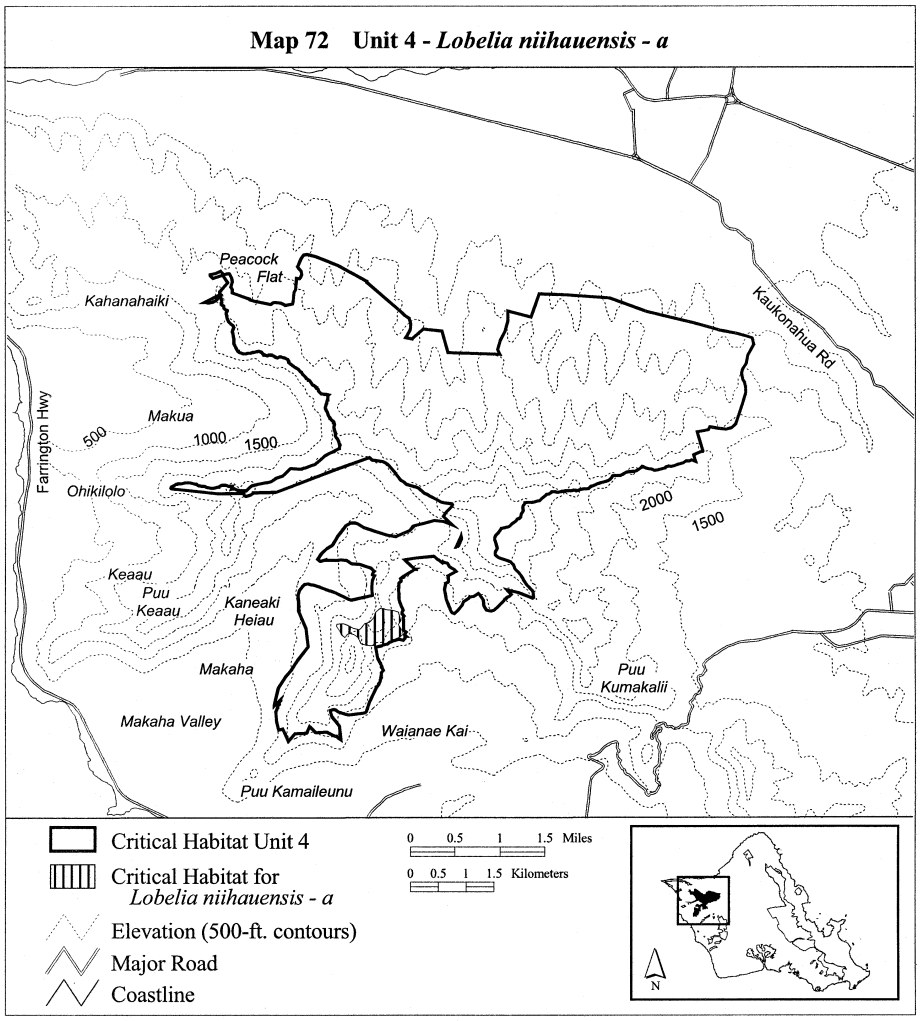
(ii) NOTE: Map 71 follows:



(72) Oahu 4—*Lobelia niihauensis*—a (44 ha; 108 ac)

(i) Unit consists of the following 40 boundary points: Start at 585508, 2376654; 585626, 2376661; 585701, 2376636; 585802, 2376586; 585905, 2376557; 585934, 2376575; 586016, 2376675; 586091, 2376696; 586156, 2376757; 586174, 2376804; 586199, 2376865; 586267, 2376926; 586295, 2376943; 586353, 2376936; 586399, 2376922; 586510, 2376911; 586618, 2376875; 586657, 2376714; 586618, 2376646; 586678, 2376550; 586696, 2376475; 586653, 2376432; 586542, 2376385; 586453, 2376339; 586328, 2376278; 586220, 2376267; 586045, 2376278; 585934, 2376313; 585912, 2376367; 585873, 2376432; 585823, 2376467; 585748, 2376492; 585701, 2376475; 585683, 2376449; 585655, 2376407; 585637, 2376424; 585587, 2376464; 585565, 2376528; 585522, 2376586; 585501, 2376621; return to starting point.

(ii) NOTE: Map 72 follows:

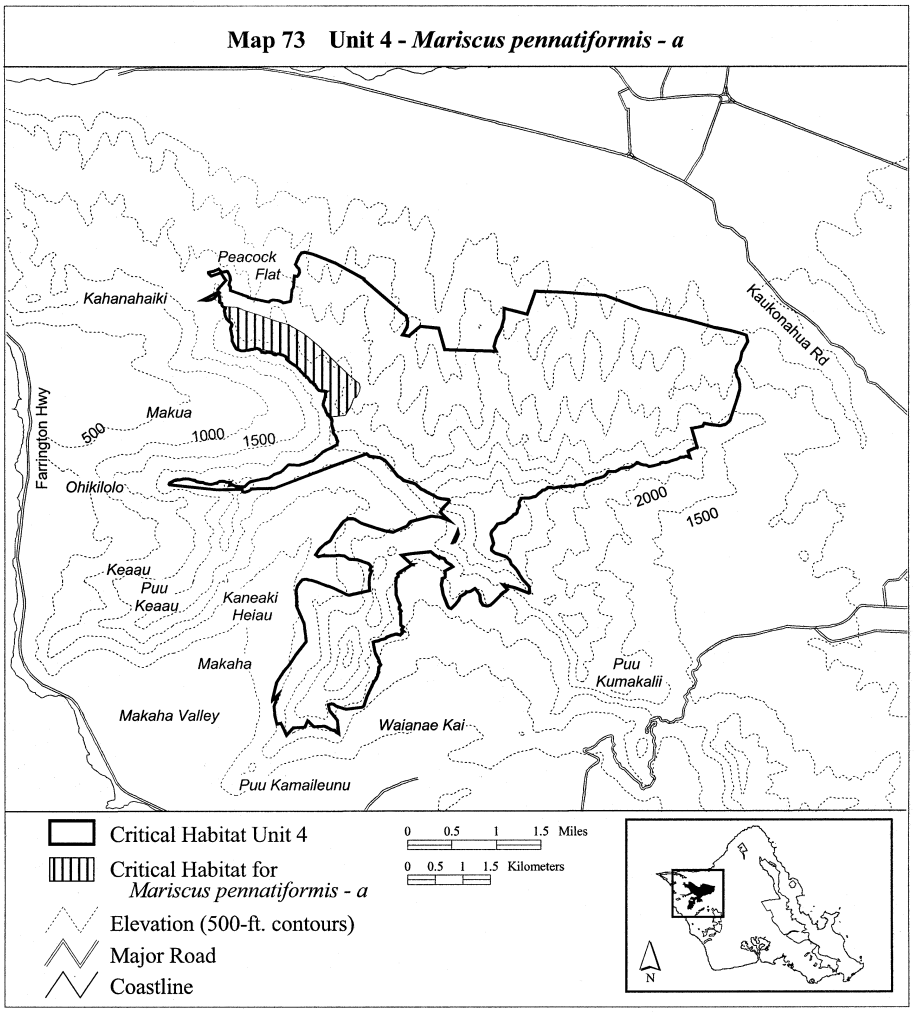


(73) Oahu 4—*Mariscus pennatiformis*—a (166 ha; 410 ac)

(i) Unit consists of the following 182 boundary points: Start at 583501, 2382343; 583539, 2382348; 583749, 2382330; 583883, 2382277; 584242, 2382158; 584464, 2382083; 584692, 2382012; 584946, 2381862; 585122, 2381716; 585294, 2381563; 585526, 2381335; 585687, 2381185; 585796, 2381069; 585949, 2380950; 585968, 2380878; 585960, 2380800; 585915, 2380703; 585855, 2380673; 585822, 2380590; 585781, 2380471; 585705, 2380366; 585604, 2380355; 585529, 2380347; 585405, 2380347; 585393, 2380361; 585375, 2380388; 585364, 2380407; 585353, 2380428; 585342, 2380452; 585330, 2380478; 585322, 2380497; 585318, 2380512; 585308, 2380533; 585299, 2380553; 585297, 2380570; 585300, 2380580; 585303, 2380592; 585309, 2380613; 585315, 2380636; 585327, 2380677; 585338, 2380712; 585339, 2380712; 585344, 2380738; 585346, 2380754; 585345, 2380767; 585345, 2380779; 585348, 2380789; 585348, 2380790; 585344, 2380798; 585344, 2380799; 585338, 2380802; 585329, 2380804; 585328, 2380804; 585308, 2380806; 585279, 2380811; 585245,

2380818; 585228, 2380821; 585208, 2380833; 585194, 2380847; 585183, 2380863; 585183, 2380864; 585167, 2380888; 585157, 2380904; 585138, 2380929; 585119, 2380952; 585119, 2380953; 585107, 2380962; 585106, 2380963; 585094, 2380968; 585078, 2380975; 585067, 2380980; 585061, 2380987; 585053, 2381000; 585039, 2381021; 585027, 2381040; 585011, 2381059; 584993, 2381074; 584993, 2381075; 584973, 2381090; 584954, 2381104; 584939, 2381117; 584923, 2381137; 584905, 2381157; 584891, 2381175; 584867, 2381205; 584852, 2381221; 584844, 2381230; 584843, 2381230; 584813, 2381261; 584796, 2381273; 584778, 2381284; 584774, 2381287; 584751, 2381303; 584728, 2381318; 584708, 2381329; 584690, 2381345; 584690, 2381346; 584676, 2381356; 584656, 2381369; 584654, 2381370; 584643, 2381382; 584639, 2381394; 584636, 2381408; 584633, 2381420; 584628, 2381430; 584618, 2381442; 584617, 2381442; 584601, 2381452; 584581, 2381462; 584562, 2381467; 584539, 2381475; 584519, 2381483; 584494, 2381489; 584485, 2381487; 584388, 2381533; 584179, 2381574; 584145, 2381575; 584130, 2381584; 584129, 2381584; 584104, 2381586; 584065, 2381583; 584038, 2381578; 584037, 2381578; 583831, 2381548; 583790, 2381574; 583729, 2381589; 583709, 2381612; 583707, 2381614; 583694, 2381639; 583685, 2381655; 583672, 2381685; 583659, 2381711; 583652, 2381731; 583651, 2381742; 583651, 2381757; 583651, 2381773; 583651, 2381789; 583651, 2381805; 583651, 2381806; 583649, 2381820; 583644, 2381847; 583642, 2381874; 583639, 2381896; 583638, 2381897; 583634, 2381907; 583631, 2381919; 583629, 2381934; 583630, 2381951; 583633, 2381969; 583638, 2381979; 583645, 2381993; 583645, 2381994; 583649, 2382013; 583649, 2382018; 583648, 2382029; 583647, 2382030; 583641, 2382045; 583640, 2382175; 583626, 2382059; 583610, 2382073; 583590, 2382091; 583570, 2382107; 583561, 2382120; 583552, 2382135; 583546, 2382153; 583536, 2382180; 583529, 2382214; 583523, 2382238; 583523, 2382239; 583518, 2382254; 583517, 2382264; 583517, 2382276; 583518, 2382287; 583521, 2382299; 583528, 2382305; 583535, 2382312; 583535, 2382313; 583535, 2382319; 583531, 2382326; 583523, 2382334; 583522, 2382334; 583511, 2382337; return to starting point.

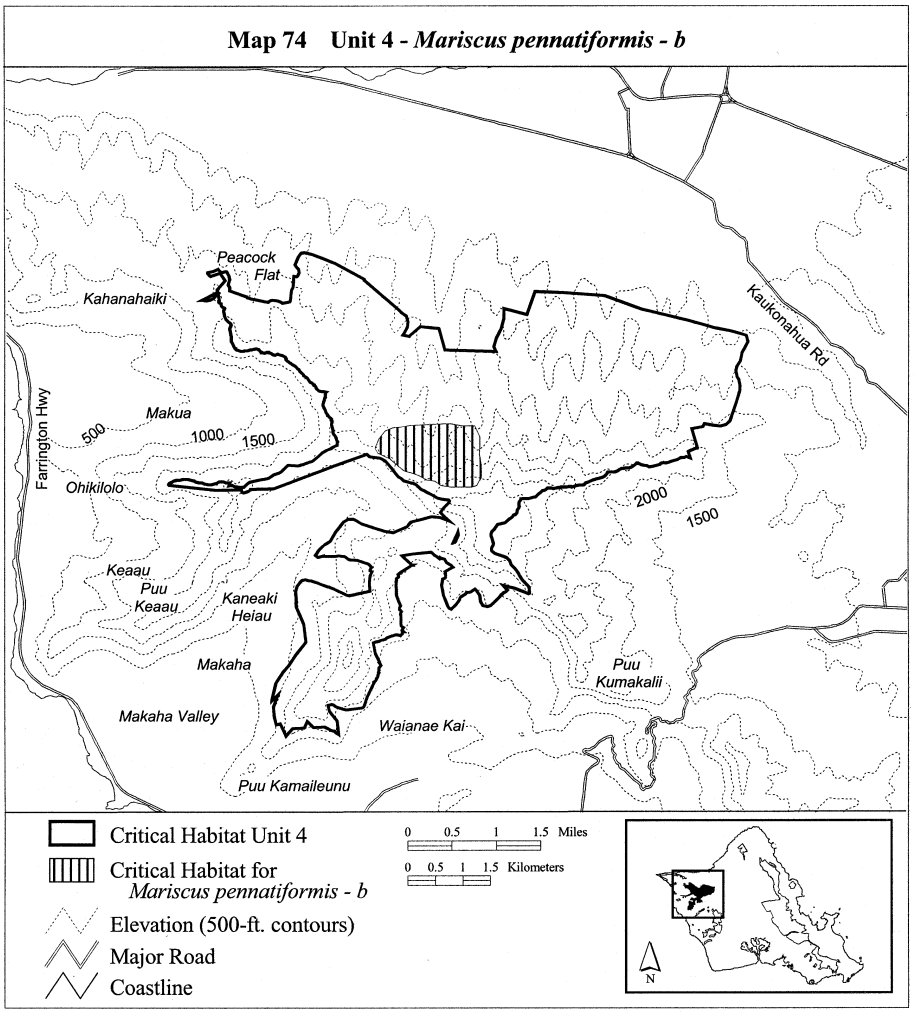
(ii) NOTE: Map 73 follows:



(74) Oahu 4—*Mariscus pennatiformis*—b (170 ha; 421 ac)

(i) Unit consists of the following 35 boundary points: Start at 588047, 2380182; 588144, 2379979; 588144, 2379793; 588131, 2379665; 588157, 2379510; 588165, 2379390; 588165, 2379280; 588165, 2379231; 588134, 2379169; 588090, 2379090; 587997, 2379063; 587874, 2379063; 587732, 2379068; 587617, 2379059; 587436, 2379094; 587325, 2379169; 587179, 2379192; 587029, 2379276; 586874, 2379329; 586799, 2379342; 586764, 2379364; 586653, 2379452; 586503, 2379581; 586286, 2379678; 586242, 2379771; 586308, 2379948; 586428, 2380089; 586557, 2380147; 586721, 2380160; 586889, 2380186; 587127, 2380200; 587295, 2380208; 587508, 2380222; 587614, 2380222; 587817, 2380178; return to starting point.

(ii) NOTE: Map 74 follows:

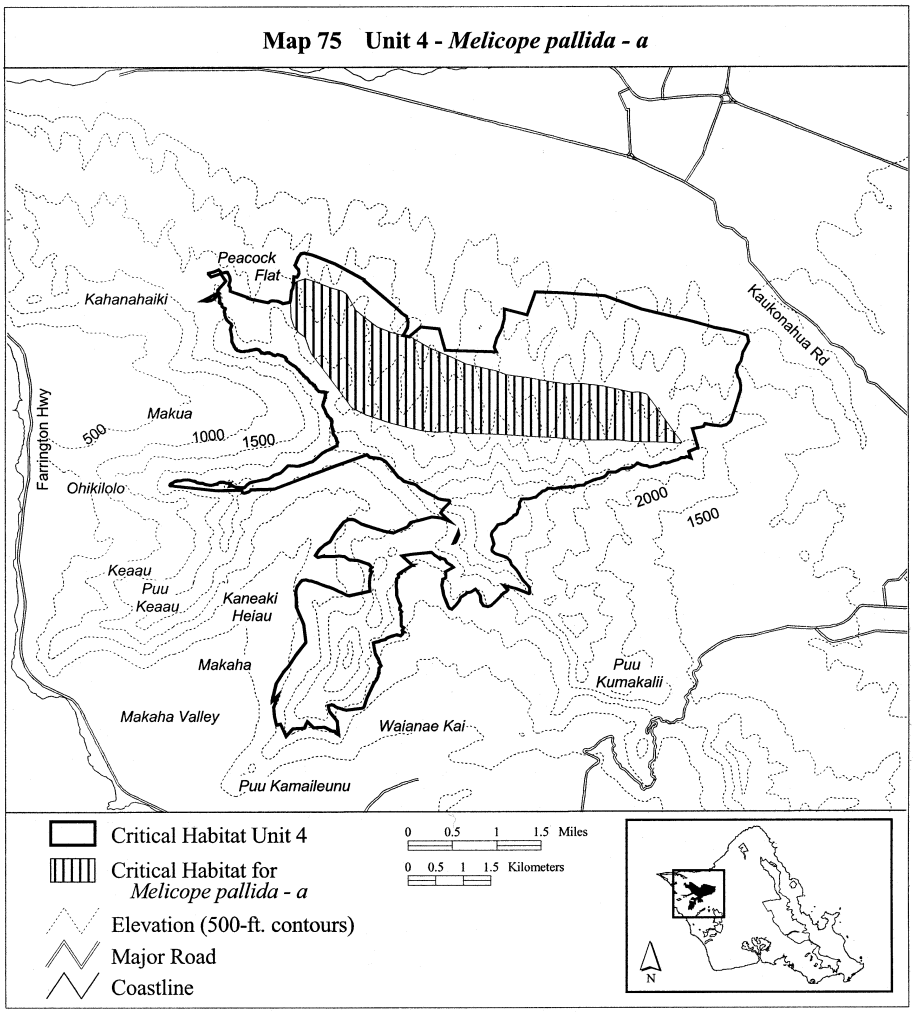


(75) Oahu 4—*Melicope pallida*—a (854 ha; 2,111 ac)

(i) Unit consists of the following 60 boundary points: Start at 589777, 2380936; 589797, 2380951; 589984, 2380951; 590370, 2380907; 590625, 2380855; 590896, 2380791; 591007, 2380799; 591152, 2380764; 591657, 2380042; 591778, 2379883; 591708, 2379867; 591489, 2379879; 590896, 2379887; 590645, 2379923; 590318, 2379927; 589996, 2379927; 589850, 2379946; 589851, 2379932; 589475, 2379972; 589084, 2379988; 588459, 2380033; 587823, 2380058; 587497, 2380083; 587377, 2380073; 587131, 2380093; 586901, 2380138; 586520, 2380233; 586079, 2380388; 585871, 2380488; 585869, 2380479; 585809, 2380534; 585548, 2380889; 585238, 2381315; 585107, 2381481; 585052, 2381586; 584977, 2381806; 584872, 2381891; 584777, 2381997; 584726, 2382157; 584716, 2382428; 584736, 2382653; 584812, 2382818; 584992, 2382873; 585177, 2382808; 585443, 2382708; 585653, 2382648; 585734, 2382583; 585794, 2382473; 585889, 2382302; 586009, 2382202; 586281, 2381985; 586535, 2381886; 586896, 2381796; 587227, 2381611; 587617, 2381441; 587888, 2381320; 588459, 2381180; 588619, 2381120;

589010, 2381065; 589376, 2381000; return to starting point.

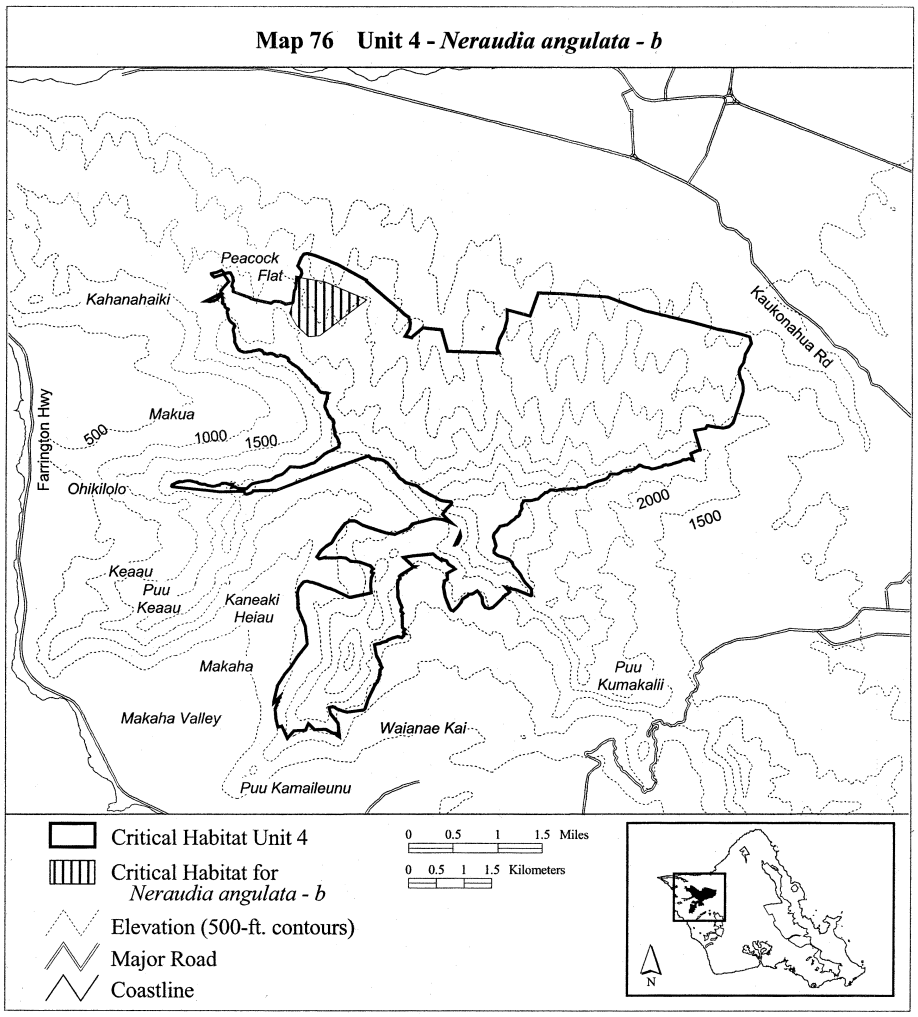
(ii) NOTE: Map 75 follows:



(76) Oahu 4—*Neraudia angulata*—b (90 ha; 222 ac)

(i) Unit consists of the following 8 boundary points: Start at 584778, 2382903; 585296, 2382829; 586055, 2382495; 585203, 2381848; 585000, 2381829; 584778, 2382033; 584648, 2382255; 584740, 2382533; return to starting point.

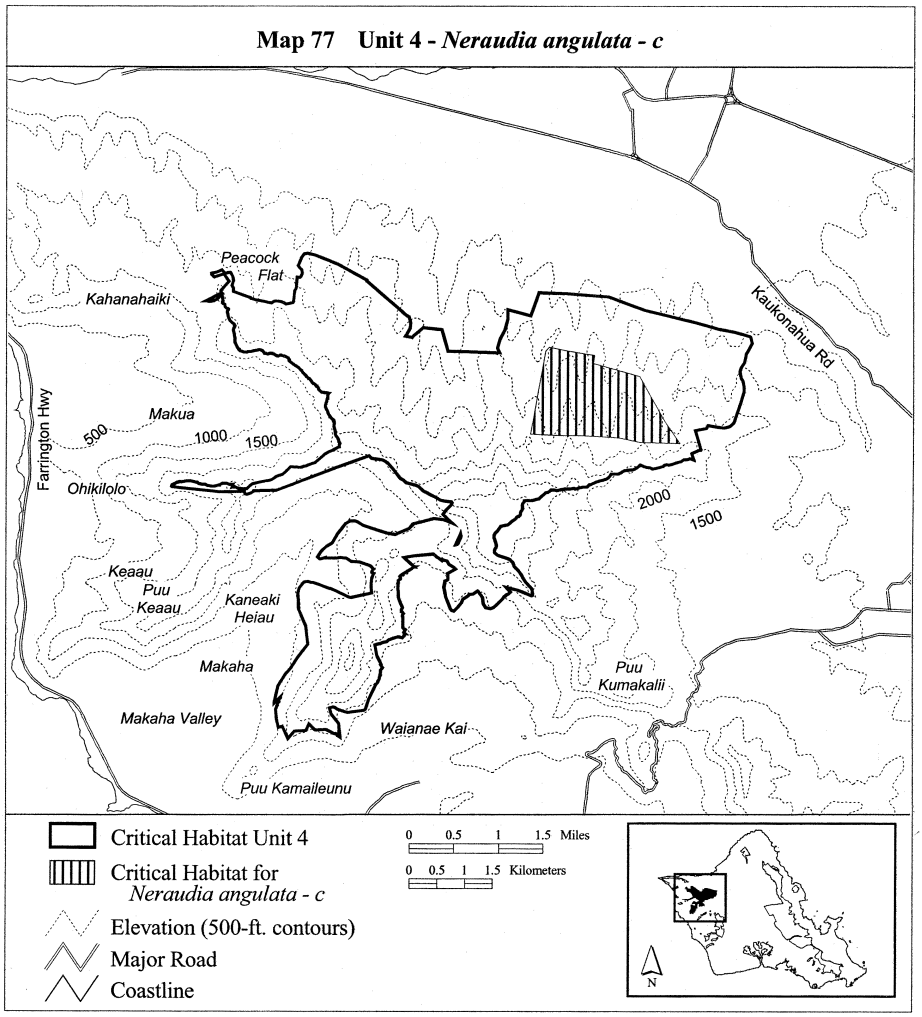
(ii) NOTE: Map 76 follows:



(77) Oahu 4—*Neraudia angulata*—c (298 ha; 736 ac)

(i) Unit consists of the following 14 boundary points: Start at 590133, 2381342; 590967, 2381106; 591416, 2380304; 591694, 2379888; 590985, 2379908; 590605, 2379986; 590337, 2380011; 589953, 2380039; 589541, 2380039; 588997, 2380062; 589266, 2381566; 589328, 2381633; 589651, 2381572; 590151, 2381490; return to starting point.

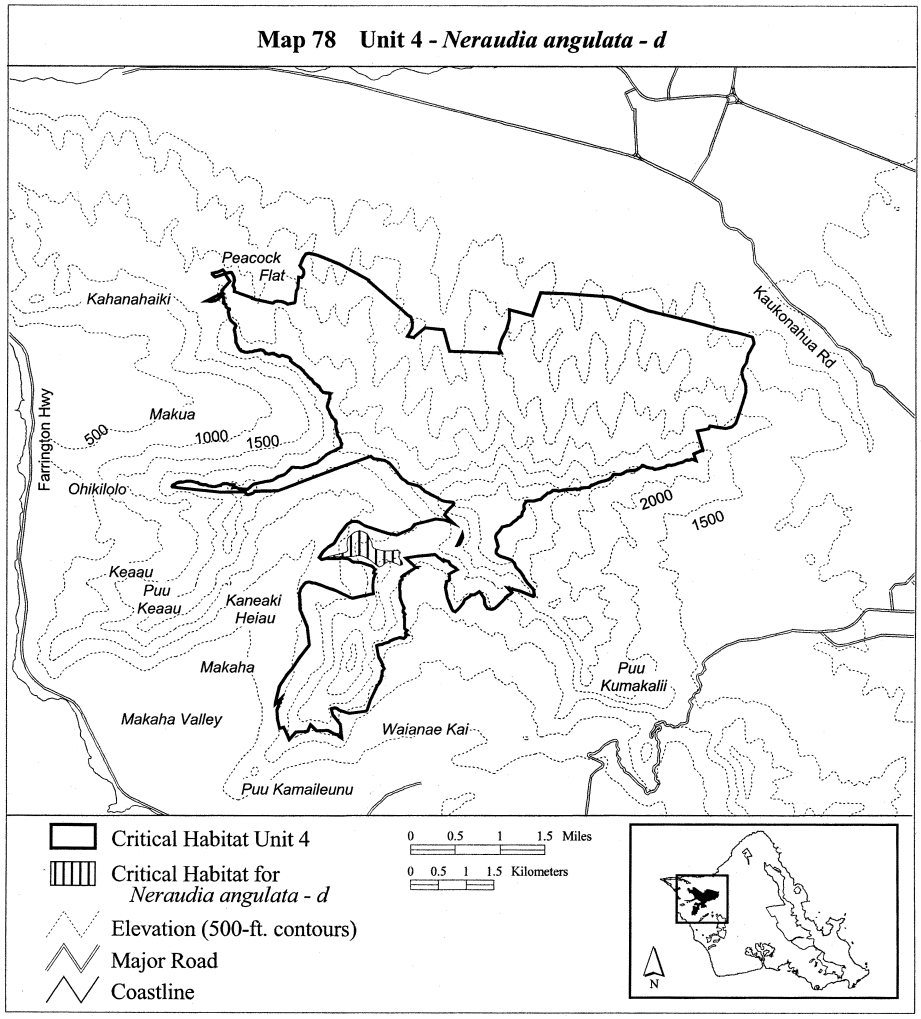
(ii) NOTE: Map 77 follows:



(78) Oahu 4—*Neraudia angulata*—d (33 ha; 81 ac)

(i) Unit consists of the following 54 boundary points: Start at 586062, 2378210; 586099, 2378126; 586119, 2378071; 586119, 2378029; 586159, 2377987; 586297, 2377953; 586383, 2377948; 586497, 2377955; 586574, 2377955; 586606, 2377950; 586606, 2377911; 586603, 2377854; 586603, 2377812; 586628, 2377790; 586653, 2377760; 586668, 2377728; 586660, 2377693; 586618, 2377681; 586569, 2377711; 586502, 2377740; 586421, 2377765; 586381, 2377738; 586339, 2377711; 586299, 2377676; 586255, 2377659; 586215, 2377676; 586159, 2377721; 586104, 2377760; 586067, 2377792; 586170, 2377800; 585986, 2377834; 585941, 2377856; 585865, 2377866; 585795, 2377859; 585736, 2377844; 585627, 2377849; 585504, 2377854; 585368, 2377827; 585321, 2377834; 585333, 2377856; 585373, 2377859; 585511, 2377889; 585623, 2377921; 585672, 2377938; 585677, 2377982; 585667, 2378019; 585657, 2378104; 585657, 2378103; 585682, 2378170; 585724, 2378225; 585793, 2378279; 585889, 2378321; 585954, 2378299; 586030, 2378259; return to starting point.

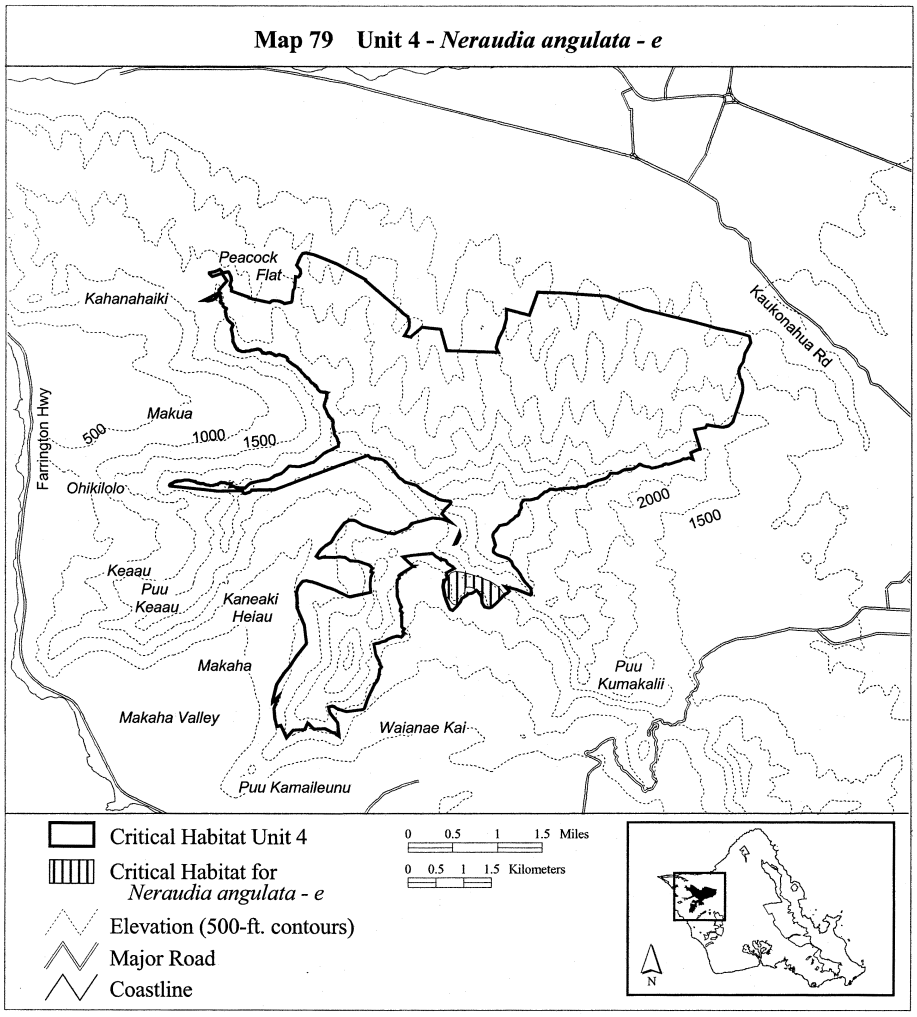
(ii) NOTE: Map 78 follows:



(79) Oahu 4—*Neraudia angulata*—e (40 ha; 98 ac)

(i) Unit consists of the following 36 boundary points: Start at 587733, 2377543; 587811, 2377534; 587910, 2377510; 587991, 2377480; 588125, 2377444; 588215, 2377414; 588302, 2377369; 588425, 2377291; 588473, 2377235; 588539, 2377142; 588500, 2377073; 588041, 2376971; 588335, 2376914; 588275, 2376893; 588194, 2376911; 588152, 2376980; 588137, 2377091; 588080, 2377181; 587991, 2377253; 587925, 2377271; 587847, 2377265; 587841, 2377196; 587832, 2377127; 587781, 2377104; 587727, 2376971; 587670, 2376950; 587625, 2376968; 587574, 2377022; 587508, 2377103; 587475, 2377262; 587475, 2377315; 587493, 2377375; 587520, 2377441; 587547, 2377480; 587592, 2377525; 587673, 2377552; return to starting point.

(ii) NOTE: Map 79 follows:

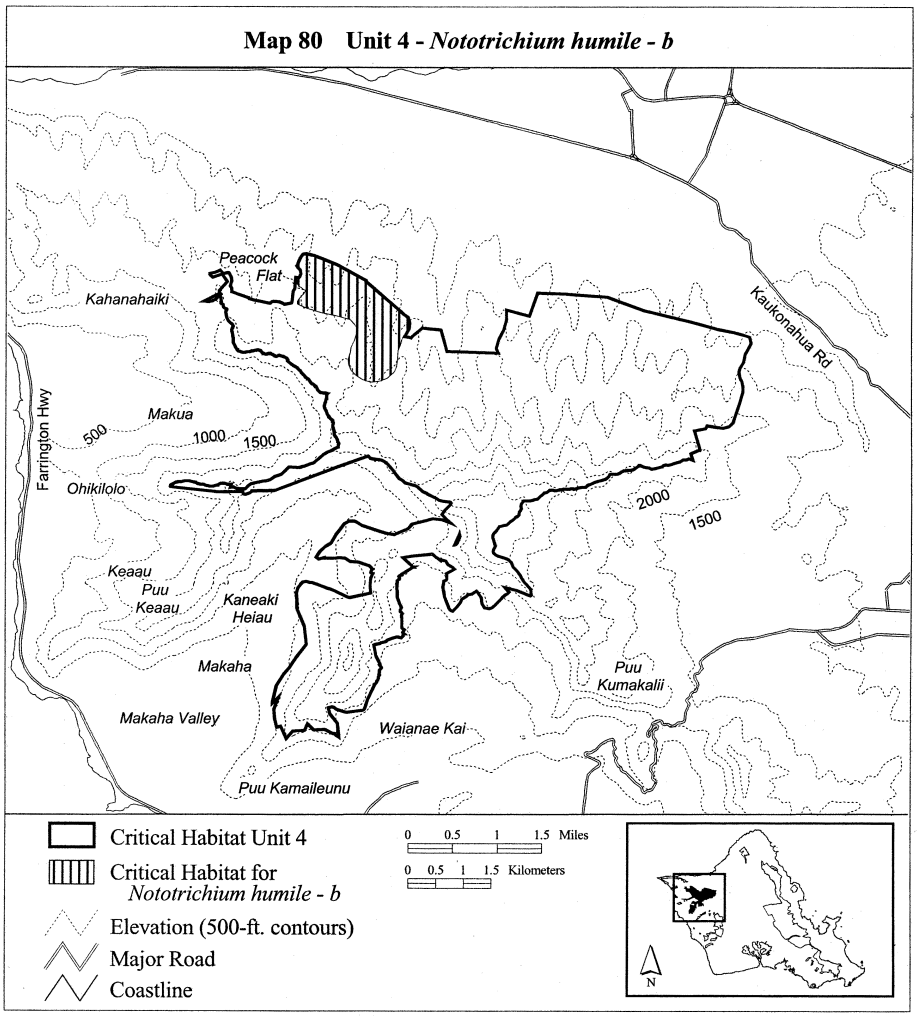


(80) Oahu 4—*Nototrichium humile*—b (230 ha; 568 ac)

(i) Unit consists of the following 60 boundary points: Start at 586045, 2382855; 586039, 2382820; 586045, 2382834; 586658, 2382294; 586720, 2382235; 586802, 2382184; 586833, 2382084; 586826, 2381980; 586761, 2381863; 586692, 2381770; 586672, 2381688; 586627, 2381574; 586613, 2381419; 586606, 2381330; 586589, 2381251; 586558, 2381192; 586437, 2381085; 586307, 2381023; 586159, 2381010; 586052, 2381030; 585973, 2381058; 585859, 2381137; 585773, 2381237; 585732, 2381333; 585721, 2381406; 585759, 2381536; 585783, 2381629; 585835, 2381746; 585866, 2381870; 585866, 2381994; 585842, 2382049; 585769, 2382137; 585756, 2382142; 585518, 2382211; 585257, 2382266; 584961, 2382349; 584809, 2382424; 584809, 2382462; 584830, 2382504; 584899, 2382583; 584933, 2382617; 584950, 2382652; 584950, 2382672; 584919, 2382693; 584875, 2382721; 584830, 2382741; 584809, 2382793; 584809, 2382844; 584840, 2382910; 584871, 2382975; 584864, 2383037; 584823, 2383068; 584802, 2383113; 584813, 2383154; 584857, 2383264; 584906, 2383326; 584974, 2383330; 585119, 2383295;

585257, 2383244; 585508, 2383141; return to starting point.

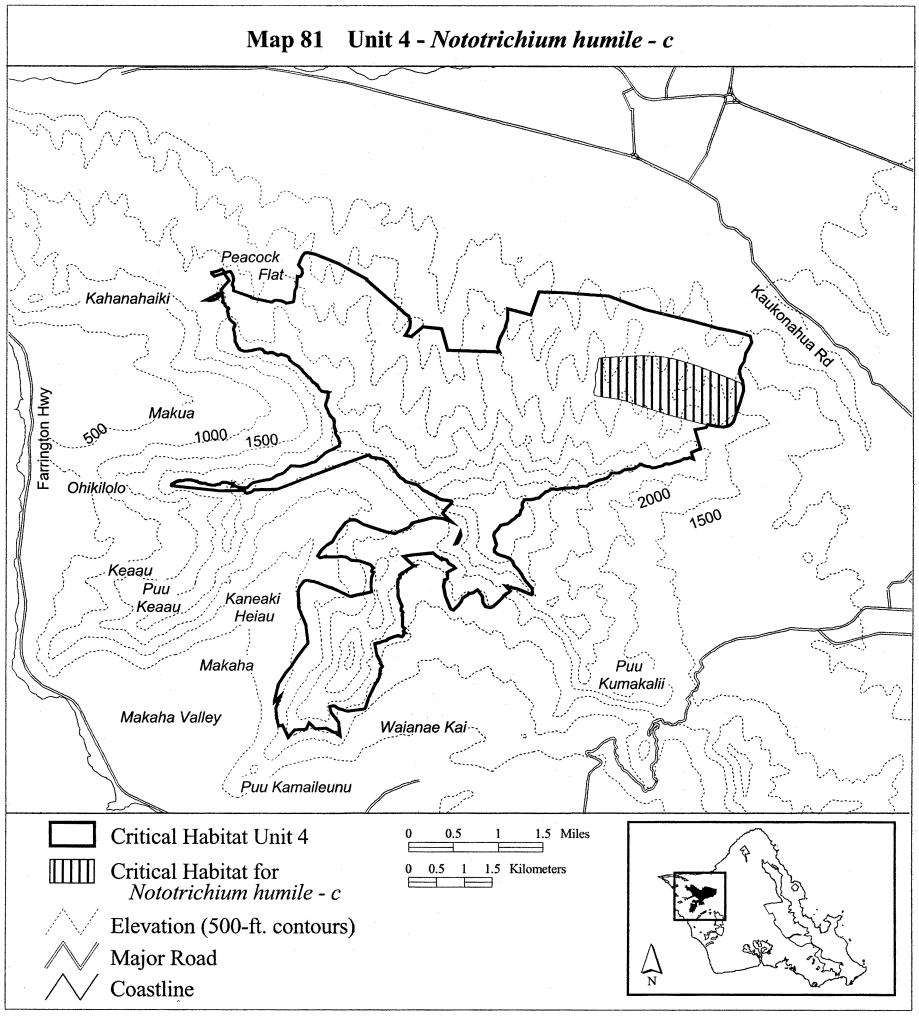
(ii) NOTE: Map 80 follows:



(81) Oahu 4—*Nototrichium humile*—c (237 ha; 586 ac)

(i) Unit consists of the following 29 boundary points: Start at 590280, 2381435; 591017, 2381472; 591362, 2381456; 591601, 2381407; 591990, 2381289; 592541, 2381079; 592785, 2380977; 592829, 2380868; 592829, 2380803; 592776, 2380617; 592683, 2380333; 592655, 2380260; 592582, 2380195; 592485, 2380175; 592351, 2380187; 592087, 2380232; 591844, 2380300; 591471, 2380398; 591102, 2380519; 590693, 2380657; 590555, 2380677; 590227, 2380722; 590138, 2380750; 590134, 2380815; 590166, 2380937; 590154, 2381139; 590190, 2381221; 590207, 2381322; 590235, 2381423; return to starting point.

(ii) NOTE: Map 81 follows:

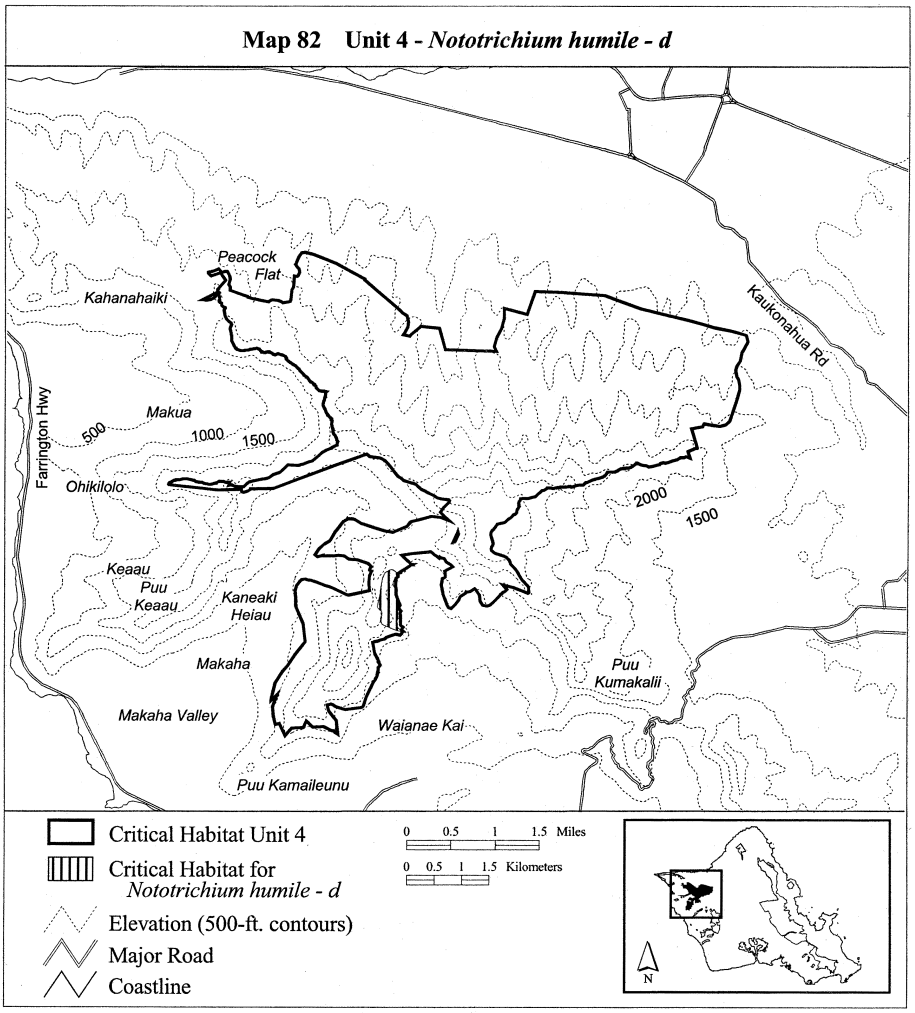


(82) Oahu 4—*Nototrichium humile*—d (30 ha; 75 ac)

(i) Unit consists of the following 62 boundary points: Start at 586425, 2377484; 586427, 2377501; 586520, 2377552; 586563, 2377551; 586598, 2377533; 586651, 2377487; 586658, 2377456; 586656, 2377428; 586593, 2377382; 586567, 2377321; 586581, 2377258; 586602, 2377207; 586616, 2377142; 586623, 2377093; 586669, 2376975; 586688, 2376938; 586693, 2376910; 586688, 2376891; 586679, 2376875; 586674, 2376860; 586676, 2376835; 586700, 2376824; 586712, 2376800; 586700, 2376763; 586690, 2376753; 586677, 2376744; 586679, 2376696; 586667, 2376665; 586653, 2376651; 586646, 2376614; 586653, 2376575; 586653, 2376544; 586653, 2376511; 586663, 2376498; 586688, 2376481; 586712, 2376454; 586712, 2376442; 586686, 2376439; 586635, 2376453; 586563, 2376482; 586477, 2376518; 586379, 2376561; 586367, 2376581; 586353, 2376609; 586339, 2376626; 586342, 2376658; 586358, 2376709; 586372, 2376744; 586367, 2376795; 586355, 2376812; 586327, 2376826; 586309, 2376845; 586295, 2376863; 586288, 2376886; 586292, 2376905; 586295, 2376940; 586316, 2377031; 586337, 2377100;

586337, 2377159; 586348, 2377258; 586374, 2377389; 586404, 2377456; return to starting point.

(ii) NOTE: Map 82 follows:

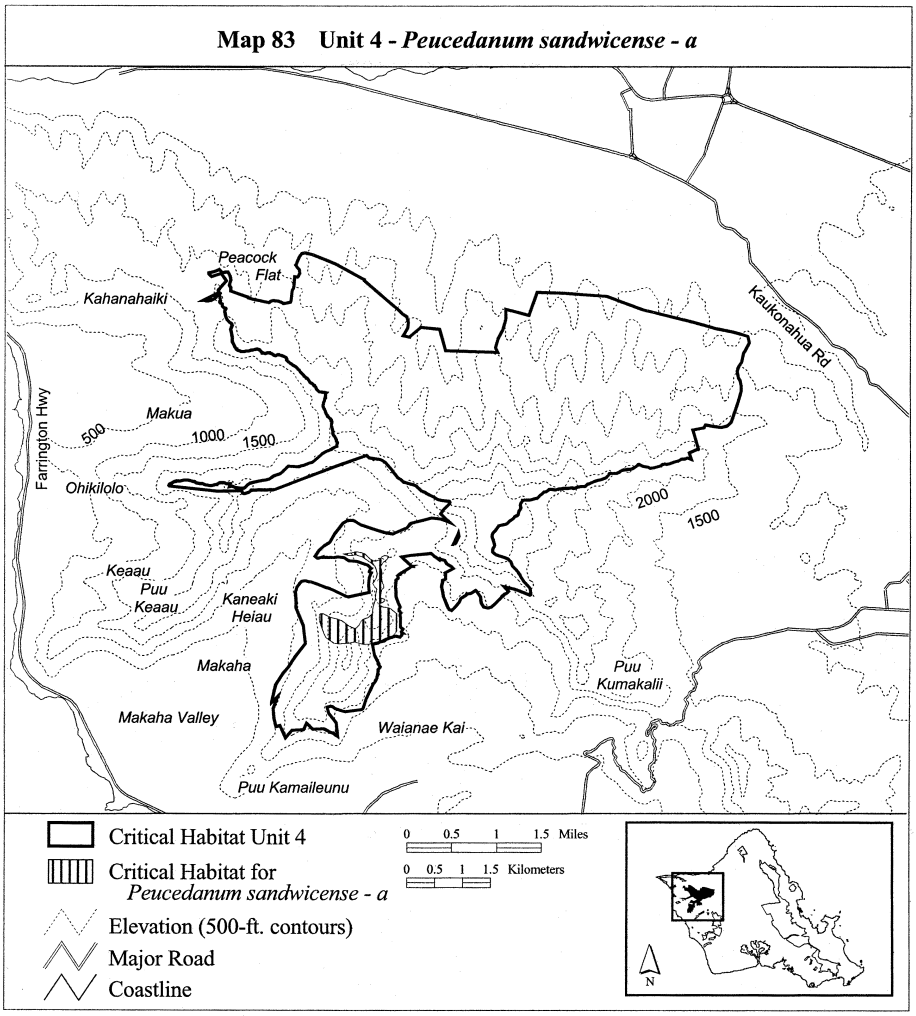


(83) Oahu 4—*Peucedanum sandwicense*—a (75 ha; 186 ac)

(i) Unit consists of the following 100 boundary points: Start at 585425, 2376724; 585534, 2376705; 585646, 2376668; 585722, 2376612; 585771, 2376573; 585821, 2376550; 585890, 2376523; 585926, 2376540; 585969, 2376596; 585999, 2376645; 586035, 2376695; 586137, 2376718; 586200, 2376784; 586206, 2376860; 586216, 2376932; 586253, 2377015; 586256, 2377127; 586266, 2377186; 586274, 2377236; 586243, 2377278; 586203, 2377338; 586236, 2377367; 586266, 2377427; 586286, 2377509; 586266, 2377582; 586239, 2377654; 586140, 2377737; 586012, 2377816; 585910, 2377852; 585831, 2377846; 585758, 2377842; 585712, 2377852; 585682, 2377872;

585831, 2377888; 585887, 2377905; 585926, 2377911; 586012, 2377888; 586071, 2377869; 586121, 2377806; 586157, 2377780; 586223, 2377747; 586279, 2377743; 586335, 2377773; 586371, 2377816; 586421, 2377846; 586477, 2377836; 586487, 2377819; 586474, 2377789; 586454, 2377760; 586431, 2377743; 586398, 2377727; 586378, 2377681; 586342, 2377641; 586365, 2377559; 586365, 2377529; 586371, 2377417; 586378, 2377358; 586404, 2377302; 586404, 2377265; 586404, 2377259; 586399, 2377257; 586368, 2377212; 586348, 2377163; 586345, 2377074; 586414, 2377054; 586431, 2377038; 586424, 2377021; 586388, 2376992; 586342, 2376972; 586335, 2376942; 586394, 2376912; 586464, 2376903; 586520, 2376883; 586602, 2376820; 586645, 2376790; 586645, 2376734; 586642, 2376639; 586642, 2376556; 586642, 2376474; 586609, 2376418; 586546, 2376375; 586450, 2376355; 586352, 2376299; 586312, 2376266; 586193, 2376246; 586045, 2376240; 585893, 2376273; 585847, 2376273; 585778, 2376260; 585590, 2376243; 585511, 2376256; 585425, 2376306; 585362, 2376368; 585326, 2376434; 585280, 2376550; 585250, 2376629; 585240, 2376698; 585240, 2376764; 585273, 2376790; 585313, 2376790; return to starting point.

(ii) NOTE: Map 83 follows:

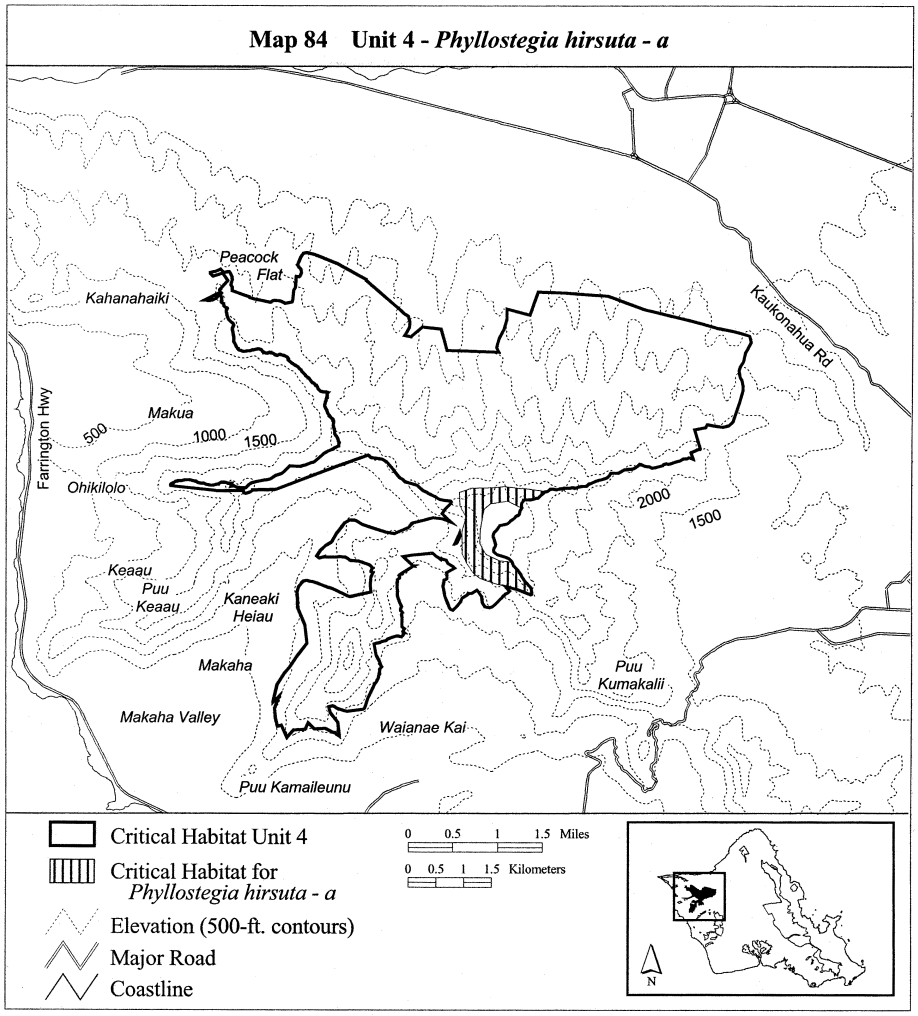


(84) Oahu 4—*Phyllostegia hirsuta*—a (114 ha; 282 ac)

(i) Unit consists of the following 75 boundary points: Start at 588849, 2378699; 588837, 2378713; 588731, 2378766; 588729, 2378762; 588606, 2378831; 588478, 2378811; 588296, 2378786; 588179, 2378678; 588110, 2378315; 588105, 2378060; 588218, 2377868; 588463, 2377750; 588677, 2377723; 588684, 2377709; 588691, 2377689; 588691, 2377688; 588708, 2377657; 588735, 2377626; 588736, 2377625; 588762, 2377601; 588787, 2377570; 588816, 2377534; 588848, 2377484; 588857, 2377459; 588858, 2377458; 588877, 2377428; 588894, 2377402; 588911, 2377378; 588912, 2377378; 589020, 2377256; 589028, 2377236; 589171, 2377144; 589039, 2377141; 589026, 2377130; 588768, 2377229; 588439, 2377308; 588125, 2377421; 587997, 2377514; 587864, 2377696; 587791, 2377873; 587791, 2378138; 587791, 2378285; 587845, 2378487; 587845, 2378561; 587741, 2378747; 587732, 2378978; 587958, 2379062; 588360, 2379076; 588542, 2379091; 588860, 2379052; 588866, 2379066; 589269, 2379008; 589288, 2379001; 589286, 2379001; 589285, 2379001; 589276, 2378998; 589275, 2378998; 589245, 2378974; 589217, 2378943; 589164, 2378898; 589149,

2378886; 589123, 2378879; 589060, 2378862; 589009, 2378857; 588910, 2378852; 588910, 2378851; 588899, 2378848; 588898, 2378848; 588887, 2378841; 588887, 2378840; 588862, 2378802; 588851, 2378772; 588851, 2378763; 588851, 2378746; 588855, 2378710; return to starting point.

(ii) NOTE: Map 84 follows:

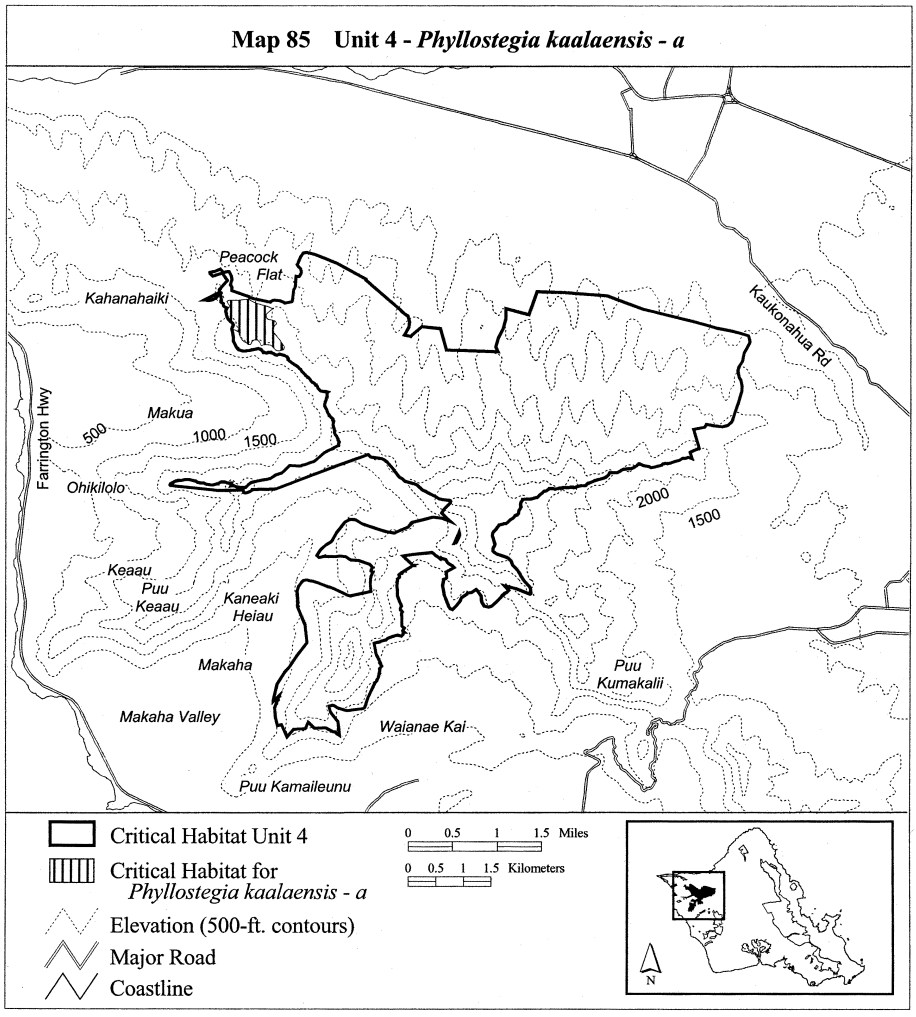


(85) Oahu 4—*Phyllostegia kaalaensis*—a (57 ha; 141 ac)

(i) Unit consists of the following 79 boundary points: Start at 583531, 2382445; 583582, 2382469; 583735, 2382475; 583912, 2382492; 584051, 2382414; 584180, 2382380; 584235, 2382373; 584358, 2382316; 584293, 2382251; 584242, 2382203; 584245, 2382149; 584289, 2382118; 584378, 2382101; 584415, 2382077; 584436, 2382170; 584388, 2381986; 584371, 2381928; 584381, 2381877; 584439, 2381805; 584510, 2381724; 584572, 2381629; 584561, 2381574; 584504, 2381554; 584436, 2381550; 584371, 2381612; 584327, 2381649; 584276, 2381666; 584225, 2381663;

584153, 2381642; 584129, 2381707; 584085, 2381741; 584024, 2381741; 583993, 2381720; 583976, 2381676; 583959, 2381663; 583925, 2381663; 583895, 2381690; 583864, 2381703; 583827, 2381731; 583800, 2381765; 583772, 2381816; 583762, 2381884; 583687, 2381921; 583629, 2381945; 583630, 2381951; 583633, 2381969; 583638, 2381979; 583645, 2381993; 583645, 2381994; 583649, 2382013; 583649, 2382018; 583648, 2382029; 583647, 2382030; 583641, 2382045; 583640, 2382045; 583626, 2382059; 583625, 2382059; 583610, 2382073; 583590, 2382091; 583570, 2382107; 583561, 2382120; 583552, 2382135; 583546, 2382153; 583536, 2382180; 583529, 2382214; 583523, 2382238; 583523, 2382239; 583518, 2382254; 583517, 2382264; 583517, 2382276; 583518, 2382287; 583521, 2382299; 583528, 2382305; 583535, 2382312; 583535, 2382313; 583535, 2382317; 583544, 2382316; 583592, 2382339; 583582, 2382377; return to starting point.

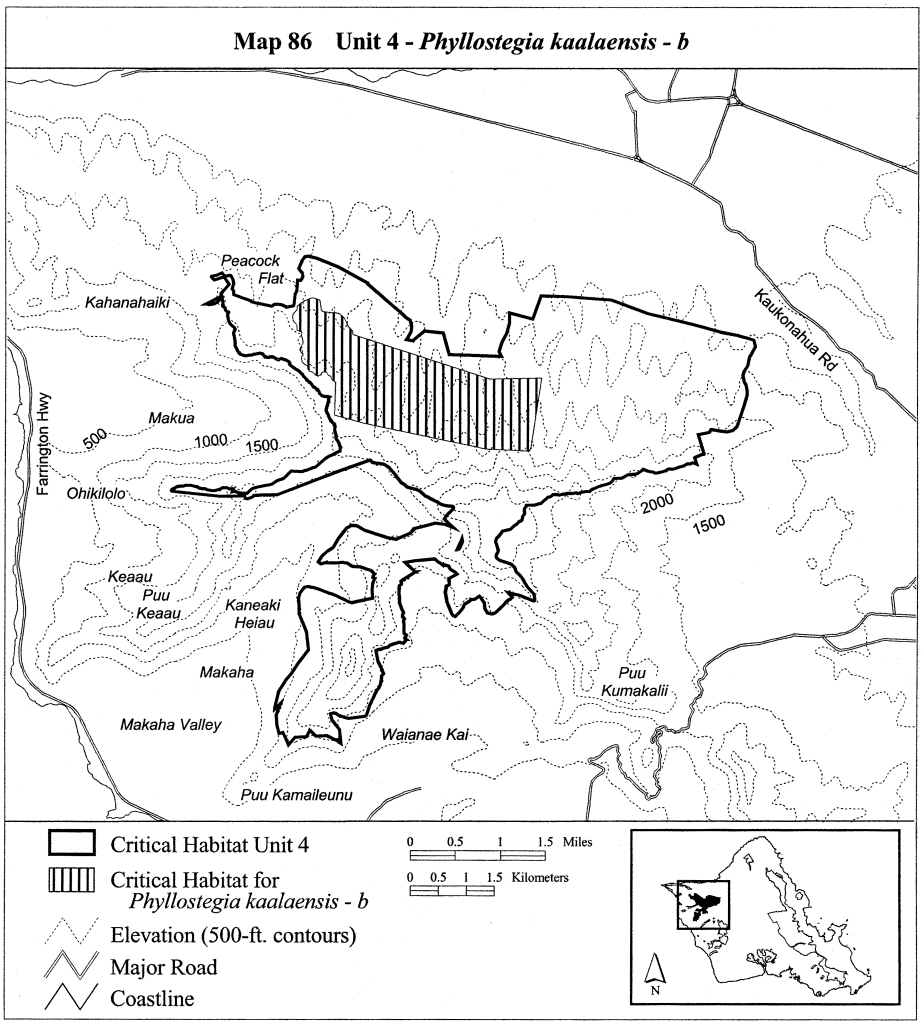
(ii) NOTE: Map 85 follows:



(86) Oahu 4—*Phyllostegia kaalaensis*—b (589 ha; 1,455 ac)

(i) Unit consists of the following 58 boundary points: Start at 585195, 2382431; 585205, 2382373; 585239, 2382339; 585396, 2382316; 585467, 2382316; 585538, 2382299; 585613, 2382234; 585657, 2382142; 585688, 2382081; 585766, 2381992; 585778, 2381927; 588229, 2381124; 589161, 2381146; 588965, 2379889; 588943, 2379824; 588164, 2379867; 585976, 2380322; 585455, 2380474; 585471, 2381065; 585447, 2381088; 585402, 2381112; 585385, 2381142; 585375, 2381176; 585331, 2381200; 585304, 2381244; 585260, 2381251; 585222, 2381248; 585202, 2381203; 585151, 2381173; 585107, 2381197; 585062, 2381244; 585001, 2381265; 584960, 2381305; 584960, 2381363; 584909, 2381390; 584858, 2381431; 584851, 2381516; 584889, 2381571; 584845, 2381598; 584817, 2381652; 584841, 2381707; 584882, 2381758; 584882, 2381809; 584848, 2381904; 584865, 2381965; 584766, 2382006; 584766, 2382091; 584749, 2382128; 584702, 2382173; 584685, 2382241; 584702, 2382292; 584766, 2382370; 584773, 2382438; 584838, 2382489; 584919, 2382530; 585025, 2382581; 585083, 2382581; 585175, 2382540; return to starting point.

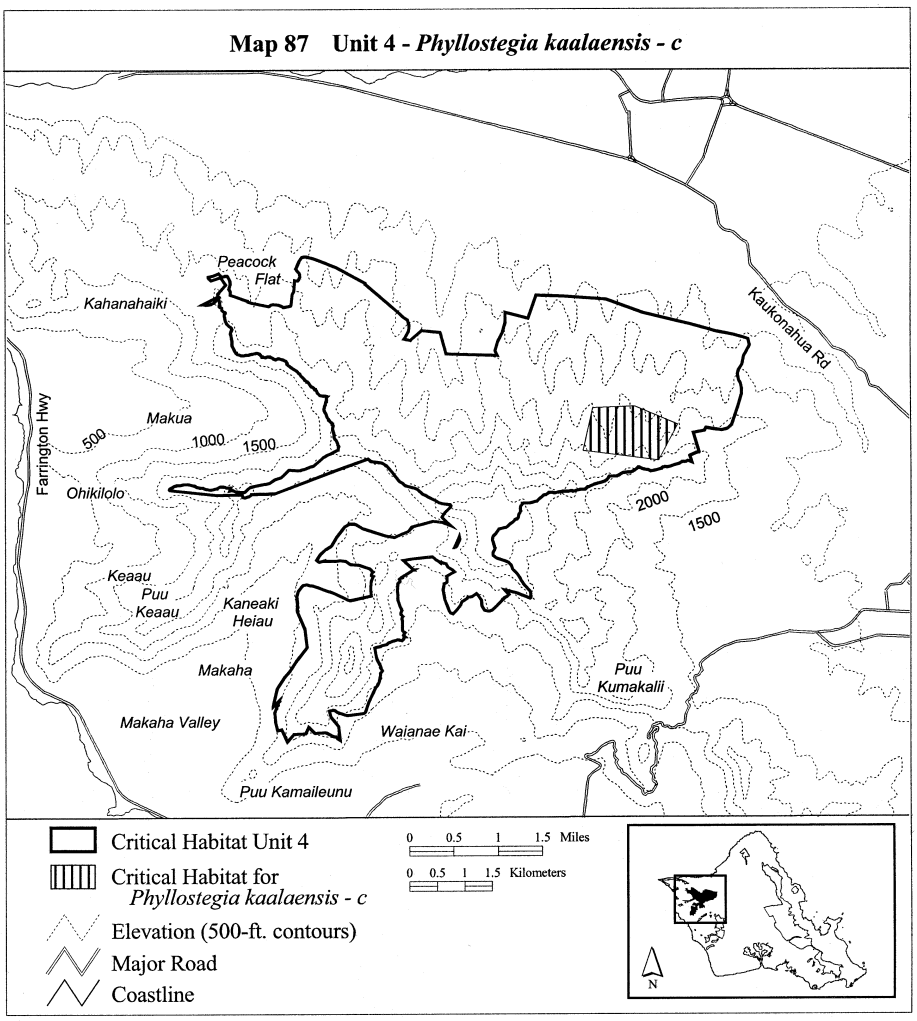
(ii) NOTE: Map 86 follows:



(87) Oahu 4—Phyllostegia kaalaensis—c (123 ha; 317 ac)

(i) Unit consists of the following 6 boundary points: Start at 589983, 2379802; 590157, 2380582; 590915, 2380104; 591695, 2380279; 591348, 2379629; 590157, 2379781; return to starting point.

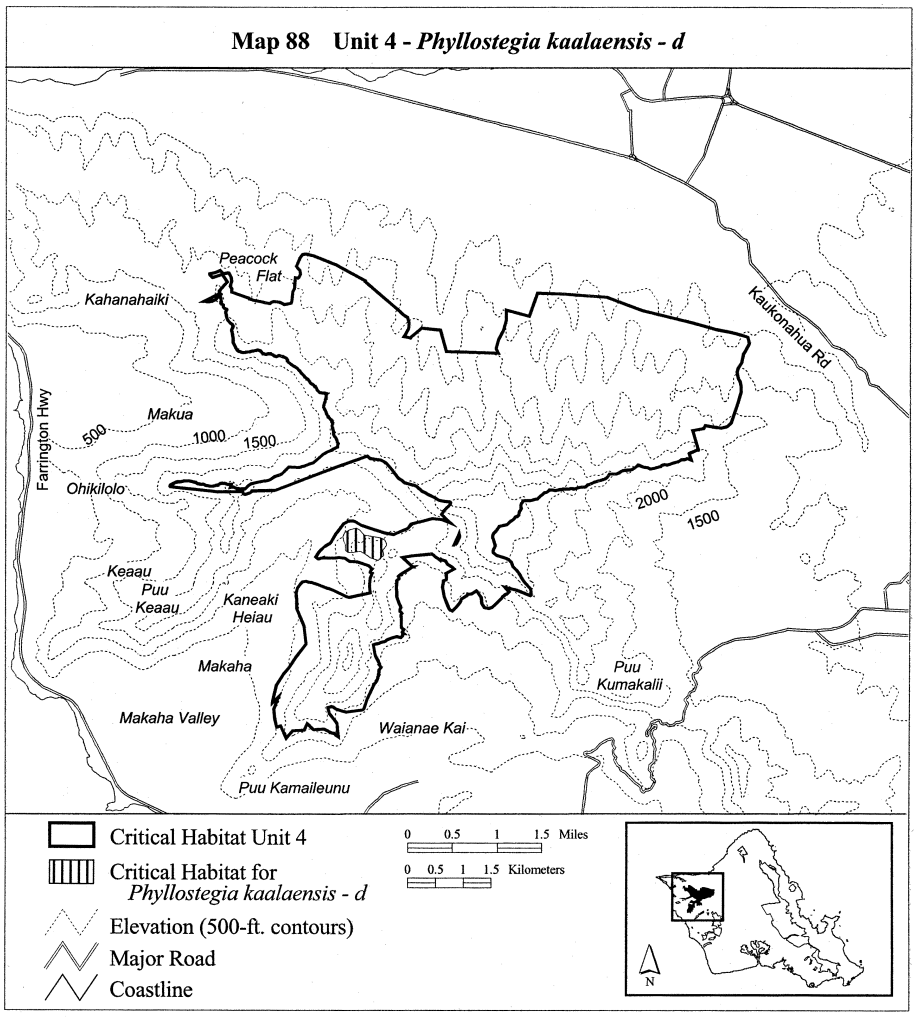
(ii) NOTE: Map 87 follows:



(88) Oahu 4—*Phyllostegia kaalaensis*—d (28 ha; 69 ac)

(i) Unit consists of the following 24 boundary points: Start at 586029, 2378224; 586338, 2378174; 586402, 2378136; 586433, 2378075; 586437, 2378026; 586410, 2377988; 586372, 2377946; 586391, 2377851; 586364, 2377824; 586292, 2377767; 586151, 2377809; 586105, 2377847; 586037, 2377893; 585972, 2377931; 585843, 2377908; 585744, 2377912; 585698, 2377946; 585694, 2378052; 585668, 2378121; 585652, 2378201; 585691, 2378273; 585789, 2378323; 585896, 2378353; 585961, 2378315; return to starting point.

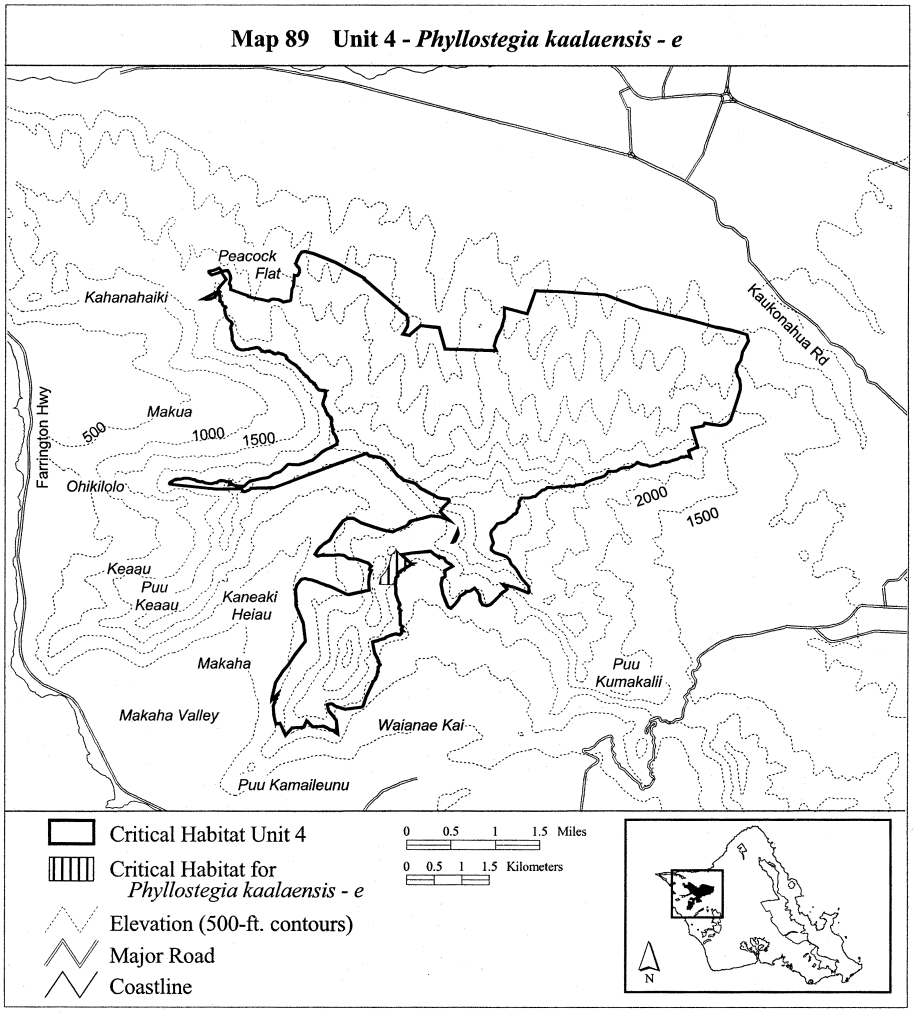
(ii) NOTE: Map 88 follows:



(89) Oahu 4—*Phyllostegia kaalaensis*—e (16 ha; 39 ac)

(i) Unit consists of the following 20 boundary points: Start at 586900, 2377643; 586901, 2377642; 586889, 2377636; 586880, 2377632; 586685, 2377514; 586685, 2377503; 586677, 2377497; 586668, 2377496; 586612, 2377415; 586592, 2377326; 586593, 2377324; 586590, 2377318; 586579, 2377274; 586326, 2377285; 586348, 2377411; 586438, 2377509; 586507, 2377643; 586540, 2377810; 586637, 2377900; 586905, 2377647; return to starting point.

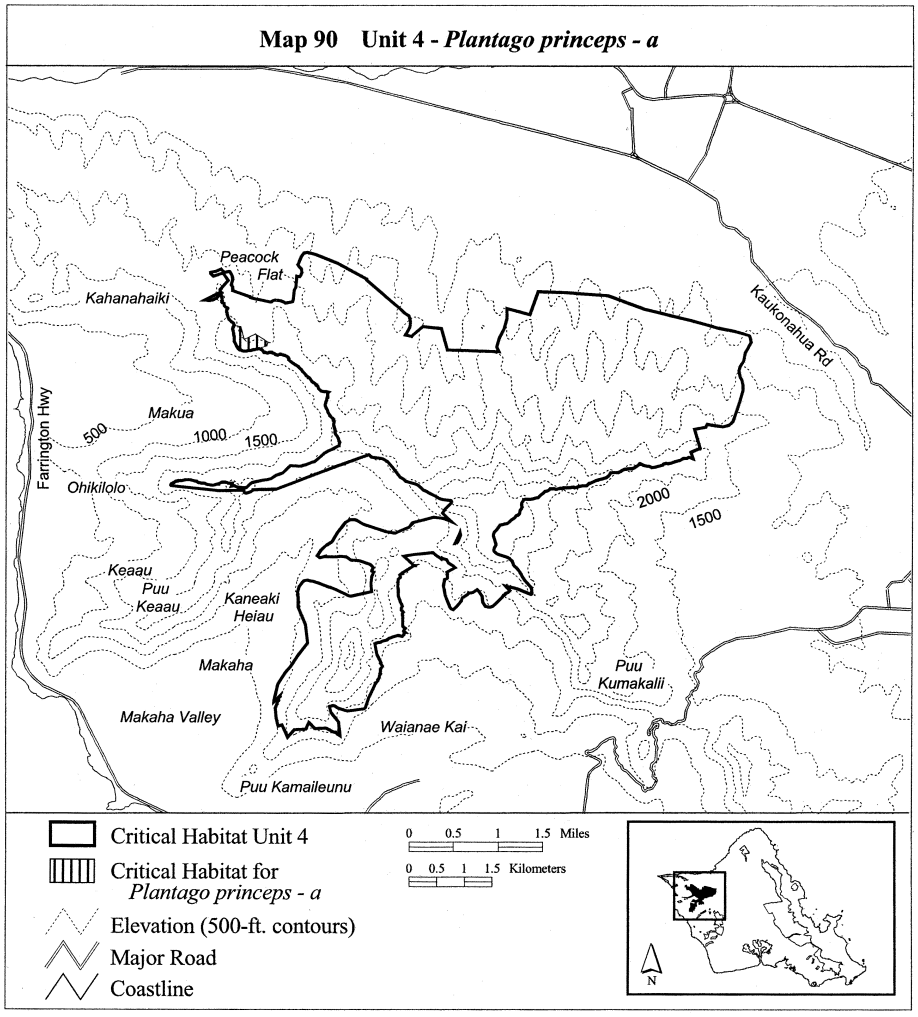
(ii) NOTE: Map 89 follows:



(90) Oahu 4—*Plantago princeps*—a (15 ha; 37 ac)

(i) Unit consists of the following 33 boundary points: Start at 583649, 2382009; 583774, 2381990; 583830, 2381756; 584042, 2381856; 584265, 2381711; 584242, 2381633; 584075, 2381589; 583819, 2381566; 583676, 2381676; 583672, 2381685; 583659, 2381711; 583652, 2381731; 583651, 2381742; 583651, 2381757; 583651, 2381773; 583651, 2381774; 583651, 2381789; 583651, 2381805; 583651, 2381806; 583649, 2381820; 583644, 2381847; 583642, 2381874; 583639, 2381896; 583638, 2381897; 583634, 2381907; 583631, 2381919; 583629, 2381930; 583629, 2381945; 583630, 2381951; 583633, 2381969; 583638, 2381979; 583645, 2381993; 583645, 2381994; return to starting point.

(ii) NOTE: Map 90 follows:

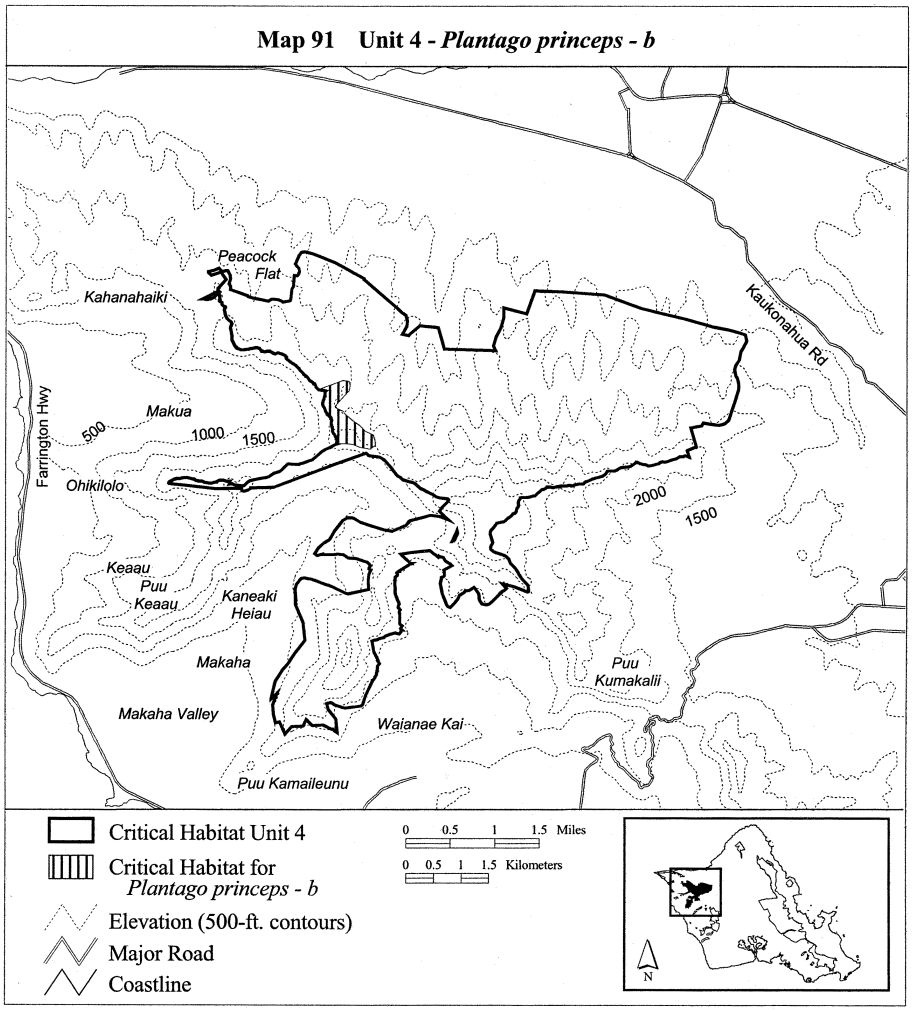


(91) Oahu 4—*Plantago princeps*—b (53 ha; 130 ac)

(i) Unit consists of the following 103 boundary points: Start at 585306, 2380537; 585297, 2380570; 585300, 2380580; 585303, 2380592; 585309, 2380613; 585315, 2380636; 585327, 2380677; 585338, 2380712; 585339, 2380712; 585344, 2380738; 585346, 2380754; 585345, 2380767; 585345, 2380779; 585348, 2380789; 585348, 2380790; 585344, 2380798; 585344, 2380799; 585338, 2380802; 585329, 2380804; 585328, 2380804; 585308, 2380806; 585279, 2380811; 585245, 2380818; 585228, 2380821; 585222, 2380825; 585222, 2380826; 585273, 2380841; 585474, 2380914; 585671, 2380987; 585774, 2380979; 585798, 2380918; 585786, 2380806; 585636, 2380648; 585535, 2380529; 585522, 2380526; 585525, 2380496; 585675, 2380429; 585698, 2380393; 585835, 2380275; 585966, 2380171; 586081, 2380063; 586216, 2379998; 586255, 2379886; 586259, 2379805; 586166, 2379736; 585997, 2379759; 585835, 2379824; 585685, 2379836; 585615, 2379836; 585621, 2379827; 585482, 2379787; 585547, 2379830; 585547, 2379831; 585548, 2379831; 585558, 2379891; 585558, 2379892; 585557, 2379892; 585548, 2379922;

585550, 2379928; 585550, 2379929; 585549, 2379929; 585549, 2379930; 585548, 2379930; 585547, 2379930; 585546, 2379929; 585545, 2379931; 585539, 2379943; 585531, 2379963; 585523, 2379982; 585522, 2379982; 585511, 2380001; 585498, 2380021; 585488, 2380040; 585483, 2380053; 585478, 2380071; 585475, 2380089; 585476, 2380103; 585474, 2380125; 585474, 2380128; 585472, 2380137; 585468, 2380149; 585465, 2380160; 585461, 2380173; 585457, 2380185; 585456, 2380203; 585456, 2380223; 585459, 2380252; 585459, 2380269; 585456, 2380281; 585451, 2380295; 585443, 2380310; 585430, 2380325; 585430, 2380326; 585408, 2380344; 585393, 2380361; 585375, 2380388; 585364, 2380407; 585353, 2380428; 585342, 2380452; 585330, 2380478; 585322, 2381797; 585318, 2380512; 585308, 2380533; return to starting point.

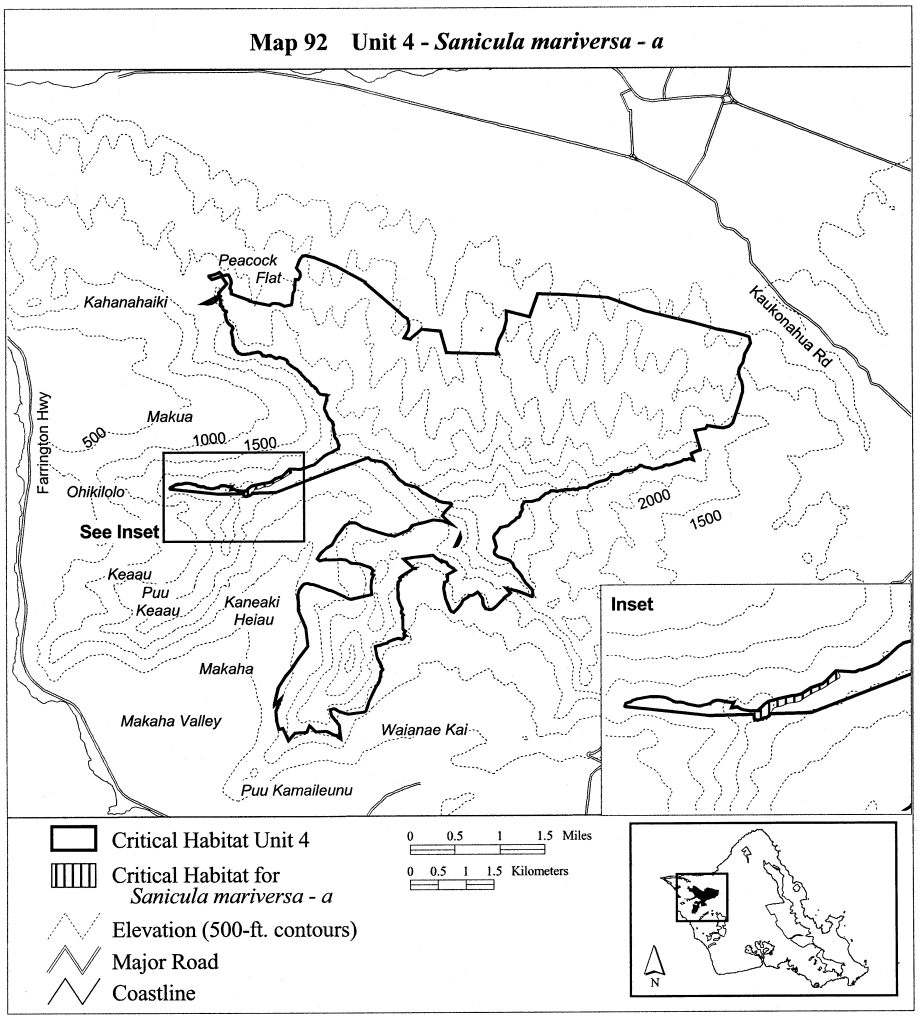
(ii) NOTE: Map 91 follows:



(92) Oahu 4—*Sanicula mariversa*—a (7 ha; 17 ac)

(i) Unit consists of the following 41 boundary points: Start at 584679, 2379459; 584686, 2379451; 584711, 2379404; 584703, 2379389; 584671, 2379369; 584614, 2379339; 584561, 2379299; 584536, 2379282; 584467, 2379252; 584407, 2379220; 584349, 2379185; 584305, 2379157; 584272, 2379145; 584188, 2379132; 584133, 2379110; 584043, 2379088; 584011, 2379043; 583988, 2379005; 583966, 2378990; 583936, 2378985; 583876, 2378960; 583839, 2378973; 583836, 2378998; 583835, 2379022; 583854, 2379060; 583876, 2379060; 583877, 2379060; 583877, 2379061; 583947, 2379131; 583977, 2379150; 584086, 2379180; 584226, 2379210; 584256, 2379210; 584326, 2379230; 584327, 2379230; 584417, 2379290; 584526, 2379330; 584527, 2379330; 584557, 2379350; 584657, 2379450; 584667, 2379460; return to starting point.

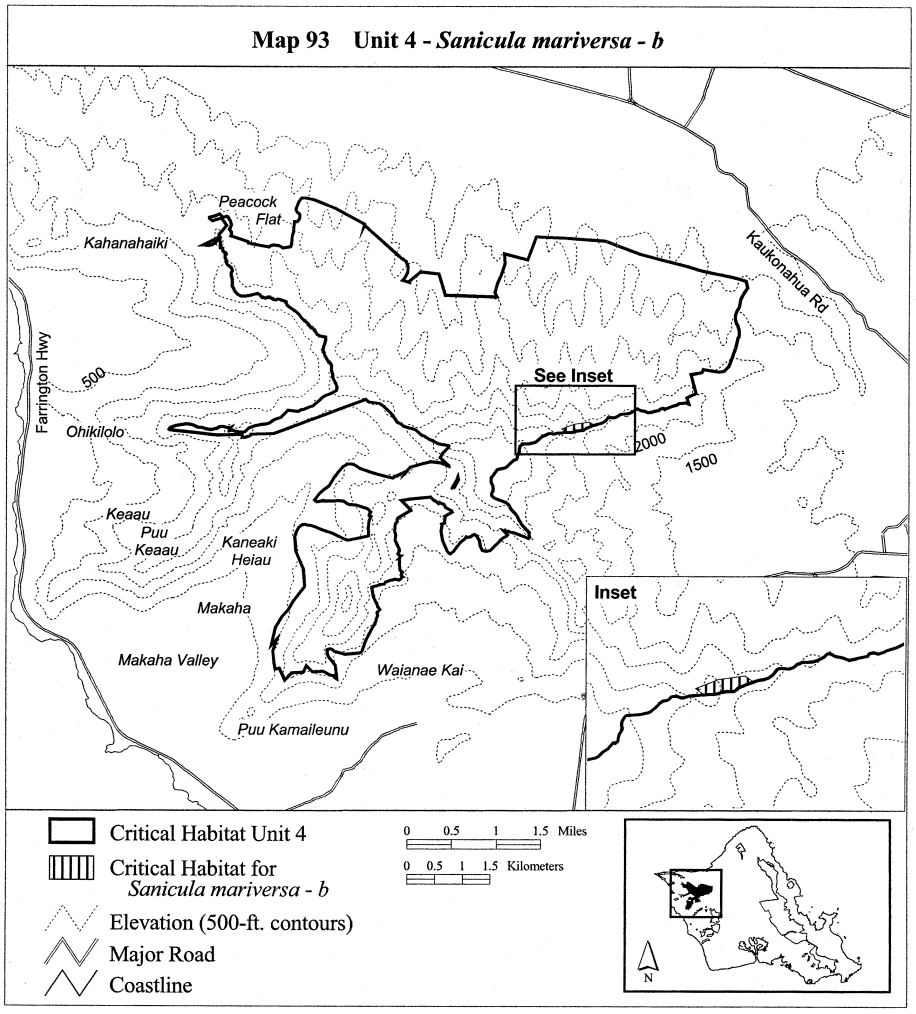
(ii) NOTE: Map 92 follows:



(93) Oahu 4—*Sanicula mariversa*—b (6 ha; 15 ac)

(i) Unit consists of the following 23 boundary points: Start at 589618, 2379132; 589854, 2379223; 590128, 2379259; 590218, 2379199; 590191, 2379191; 590084, 2379149; 590076, 2379145; 590067, 2379142; 590066, 2379141; 590039, 2379117; 590020, 2379104; 590012, 2379101; 589944, 2379099; 589907, 2379095; 589906, 2379095; 589881, 2379089; 589839, 2379075; 589839, 2379074; 589806, 2379068; 589790, 2379069; 589787, 2379069; 589747, 2379069; 589709, 2379066; return to starting point.

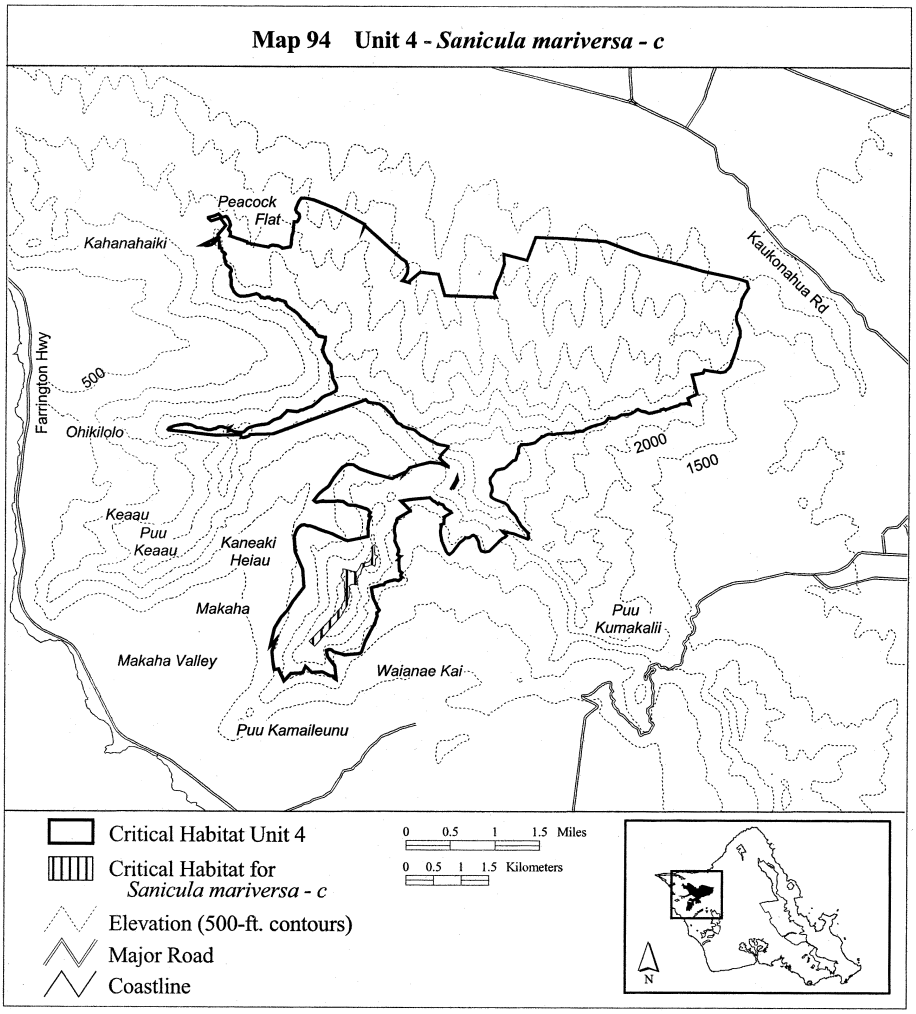
(ii) NOTE: Map 93 follows:



(94) Oahu 4—*Sanicula mariversa*—c (25 ha; 61 ac)

(i) Unit consists of the following 88 boundary points: Start at 586207, 2376926; 586193, 2376956; 586223, 2377006; 586254, 2377017; 586277, 2377004; 586255, 2376972; 586259, 2376901; 586261, 2376860; 586261, 2376842; 586298, 2376818; 586316, 2376808; 586300, 2376783; 586275, 2376759; 586272, 2376738; 586272, 2376692; 586273, 2376654; 586268, 2376631; 586241, 2376652; 586200, 2376659; 586162, 2376649; 586136, 2376633; 586082, 2376633; 586039, 2376593; 586011, 2376533; 586005, 2376472; 585975, 2376466; 585966, 2376447; 585962, 2376420; 585936, 2376400; 585928, 2376382; 585928, 2376361; 585944, 2376343; 585948, 2376325; 585948, 2376300; 585939, 2376293; 585914, 2376293; 585878, 2376298; 585855, 2376298; 585819, 2376282; 585805, 2376250; 585807, 2376209; 585800, 2376163; 585798, 2376102; 585791, 2376045; 585773, 2376004; 585766, 2375966; 585777, 2375927; 585746, 2375871; 585712, 2375825; 585700, 2375789; 585648, 2375707; 585601, 2375655; 585181, 2375180; 585083, 2375264; 585553, 2375761; 585592, 2375809; 585632, 2375845; 585664, 2375896; 585673, 2375941; 585719, 2376014; 585721, 2376068; 585726, 2376111; 585723, 2376172; 585721, 2376216; 585714, 2376259; 585718, 2376332; 585700, 2376370; 585669, 2376415; 585648, 2376438; 585664, 2376484; 585687, 2376509; 585680, 2376558; 585671, 2376575; 585685, 2376579; 585723, 2376577; 585791, 2376558; 585848, 2376541; 585911, 2376525; 585937, 2376531; 585984, 2376591; 586007, 2376665; 586028, 2376683; 586082, 2376686; 586136, 2376699; 586166, 2376711; 586182, 2376751; 586200, 2376777; 586209, 2376817; return to starting point.

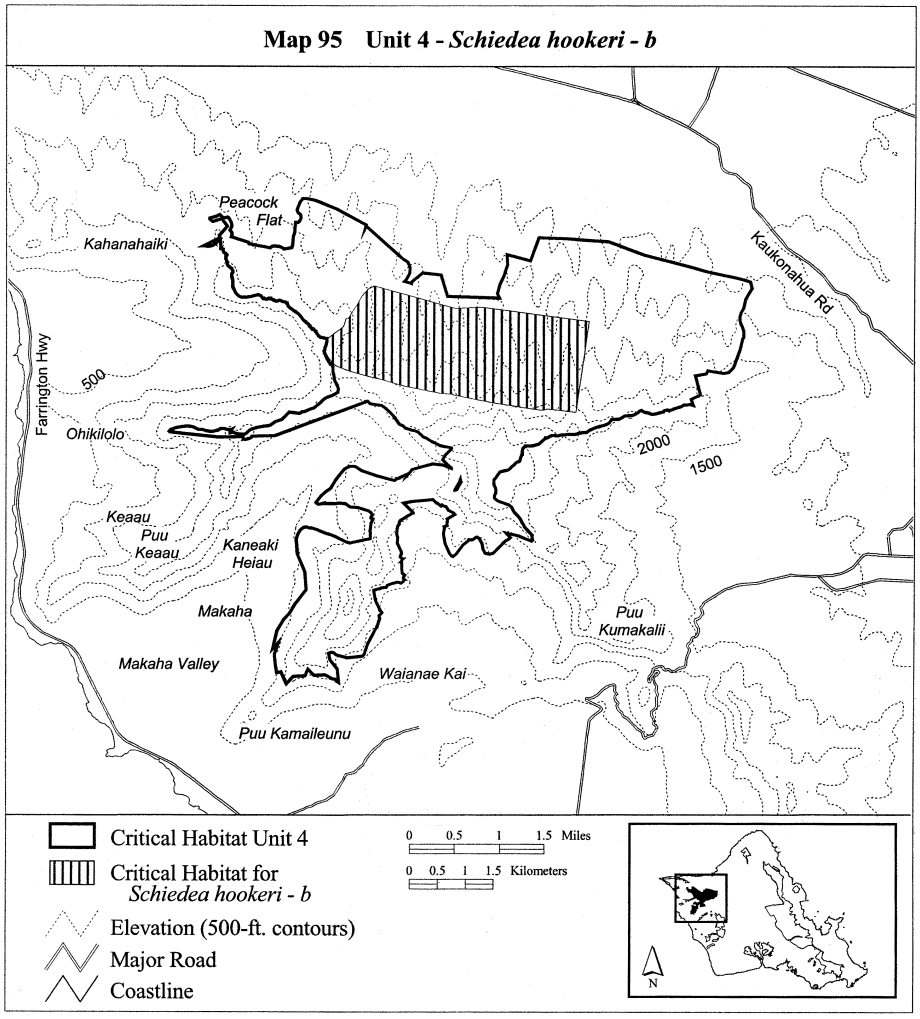
(ii) NOTE: Map 94 follows:



(95) Oahu 4—*Schiedea hookeri*—b (711 ha; 1,756 ac)

(i) Unit consists of the following 37 boundary points: Start at 585348, 2380789; 585645, 2381015; 585688, 2381163; 585739, 2381171; 585894, 2381417; 585985, 2381572; 586082, 2381691; 586191, 2381756; 586314, 2381731; 587656, 2381348; 587656, 2381345; 588119, 2381369; 590050, 2381108; 589819, 2379466; 589452, 2379514; 589308, 2379532; 589228, 2379500; 589029, 2379532; 588401, 2379630; 587999, 2379702; 587612, 2379785; 587612, 2379793; 587384, 2379814; 586747, 2379937; 586309, 2380060; 586081, 2380114; 585767, 2380205; 585499, 2380313; 585383, 2380444; 585318, 2380559; 585331, 2380689; 585338, 2380712; 585339, 2380712; 585344, 2380738; 585346, 2380754; 585345, 2380767; 585345, 2380779; return to starting point.

(ii) NOTE: Map 95 follows:

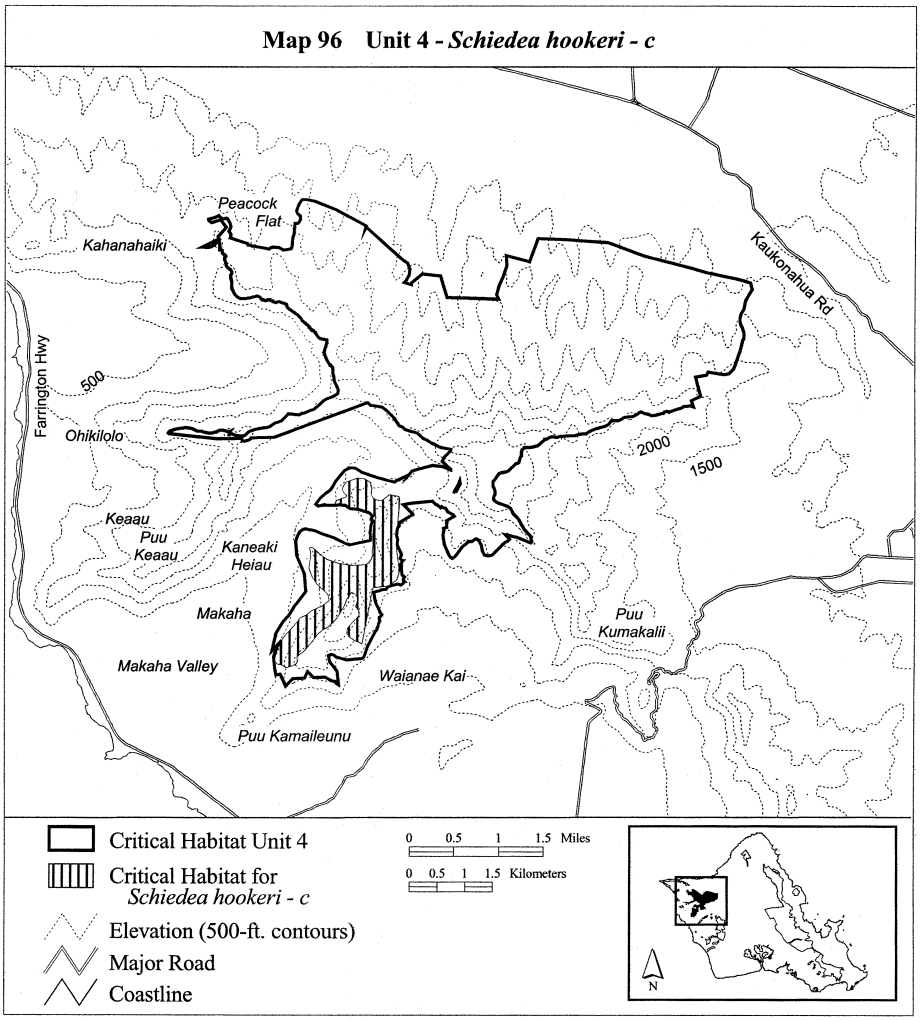


(96) Oahu 4—*Schiedea hookeri*—c (247 ha; 612 ac)

(i) Unit consists of the following 109 boundary points: Start at 586341, 2377892; 586395, 2377926; 586472, 2377998; 586539, 2377993; 586654, 2377965; 586664, 2377897; 586654, 2377768; 586640, 2377566; 586621, 2377369; 586597, 2377138; 586606, 2376989; 586635, 2376797; 586683, 2376692; 586659, 2376572; 586611, 2376451; 586568, 2376418; 586462, 2376351; 586204, 2376318; 586175, 2376255; 585995, 2375312; 585867, 2375366; 585760, 2375443; 585723, 2375506; 585727, 2375589; 585800, 2375669; 585900, 2375779; 585936, 2375813; 585930, 2375906; 585870, 2375979; 585900, 2376066; 585903, 2376149; 585860, 2376212; 585797, 2376231; 585767, 2376169; 585717, 2376116; 585693, 2376033; 585660, 2375953; 585567, 2375799; 585497, 2375719; 585403, 2375623; 585290, 2375553; 585213, 2375496; 585120, 2375363; 585044, 2375283; 584960, 2375173; 584867, 2375116; 584830, 2375070; 584837, 2375006; 584817, 2374953; 584764, 2374923; 584647, 2374886; 584554, 2374933; 584477, 2374946; 584427, 2375016; 584467, 2375153; 584524, 2375320; 584634, 2375486; 584794, 2375649;

584894, 2375779; 584984, 2375823; 585097, 2375906; 585283, 2375989; 585403, 2376086; 585383, 2376189; 585287, 2376292; 585174, 2376389; 585100, 2376502; 585037, 2376662; 585064, 2376869; 585067, 2376959; 585047, 2377042; 585097, 2377175; 585170, 2376985; 585227, 2376932; 585362, 2376832; 585396, 2376821; 585549, 2376768; 585790, 2376716; 585939, 2376730; 586073, 2376740; 586145, 2376807; 586174, 2376884; 586174, 2376965; 586184, 2377081; 586184, 2377263; 586193, 2377417; 586236, 2377600; 586107, 2377672; 585914, 2377734; 585770, 2377748; 585680, 2377807; 585653, 2377810; 585498, 2377832; 585520, 2377883; 585631, 2377934; 585700, 2377952; 585717, 2377986; 585661, 2378033; 585627, 2378089; 585653, 2378166; 585708, 2378230; 585807, 2378264; 585897, 2378303; 586051, 2378286; 586141, 2378217; 586167, 2378106; 586145, 2378012; 586179, 2377943; 586239, 2377909; return to starting point.

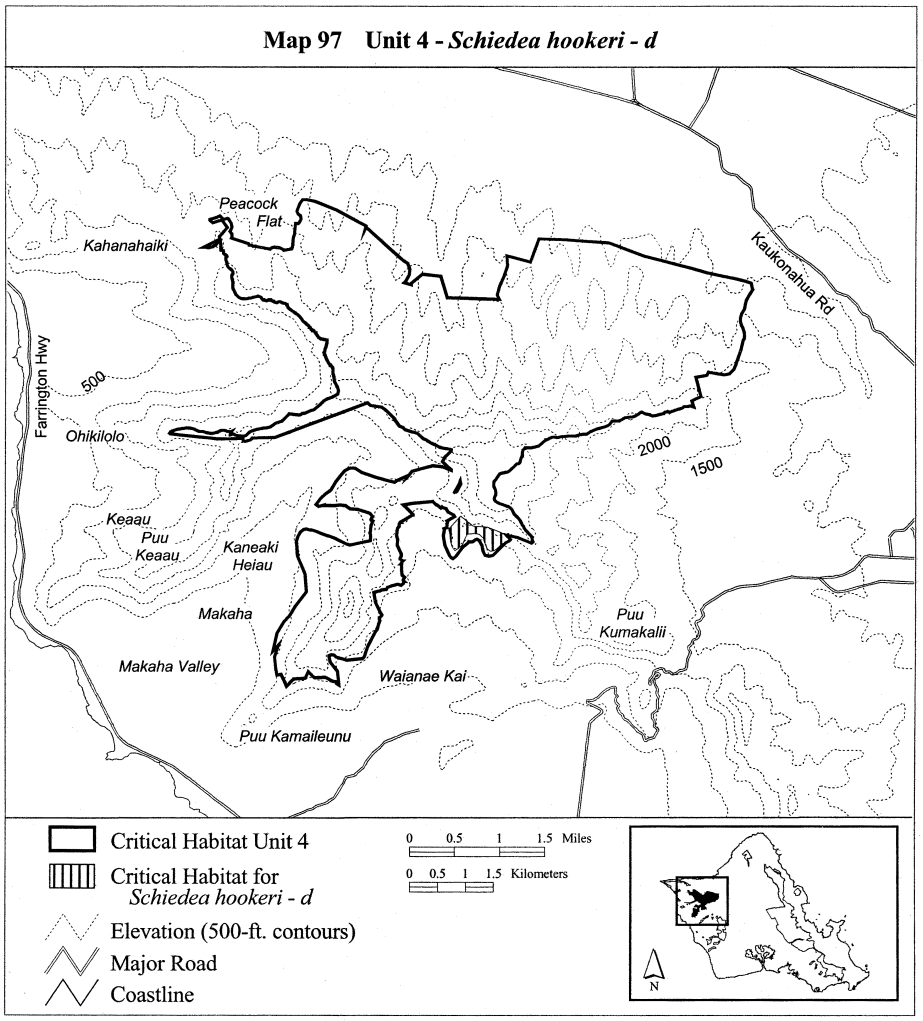
(ii) NOTE: Map 96 follows:



(97) Oahu 4—*Schiedea hookeri*—d (31 ha; 78 ac)

(i) Unit consists of the following 25 boundary points: Start at 587754, 2377619; 587985, 2377441; 588235, 2377417; 588403, 2377355; 588566, 2377283; 588643, 2377196; 588614, 2377167; 588470, 2377095; 588427, 2377047; 588355, 2376994; 588288, 2376985; 588230, 2377033; 588172, 2377162; 588163, 2377220; 588095, 2377292; 587990, 2377302; 587870, 2377297; 587826, 2377196; 587788, 2377105; 587740, 2377047; 587653, 2376994; 587596, 2377066; 587577, 2377177; 587562, 2377283; 587543, 2377379; return to starting point.

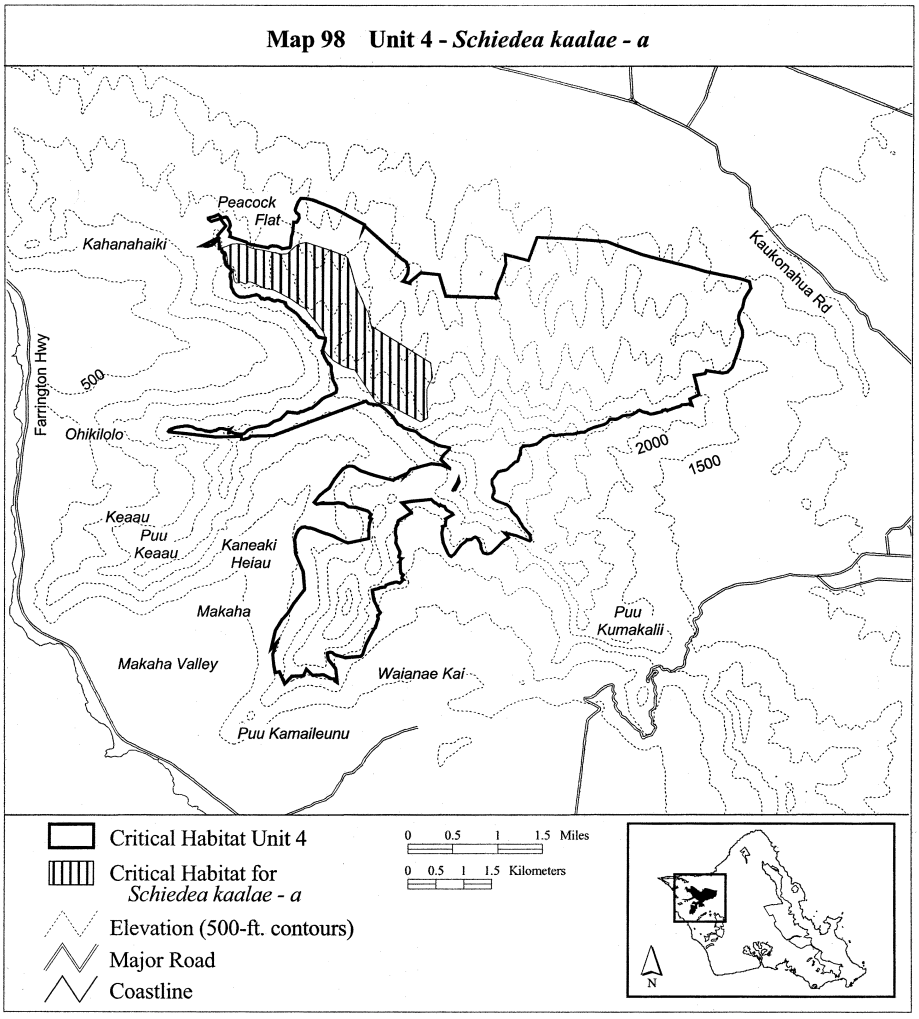
(ii) NOTE: Map 97 follows:



(98) Oahu 4—*Schiedea kaalae*—a (425 ha; 151 ac)

(i) Unit consists of the following 77 boundary points: Start at 585318, 2380589; 585359, 2380791; 585317, 2380901; 585201, 2381075; 585118, 2381169; 585045, 2381260; 584989, 2381336; 584997, 2381334; 584903, 2381389; 584744, 2381502; 584542, 2381618; 584429, 2381669; 584252, 2381704; 584107, 2381768; 584010, 2381816; 583957, 2381814; 583919, 2381792; 583898, 2381781; 583852, 2381806; 583817, 2381816; 583774, 2381800; 583742, 2381795; 583702, 2381846; 583688, 2381956; 583691, 2382045; 583643, 2382066; 583616, 2382109; 583586, 2382157; 583573, 2382233; 583565, 2382308; 583551, 2382361; 583514, 2382383; 583484, 2382437; 583562, 2382464; 583651, 2382496; 583766, 2382504; 583903, 2382493; 583967, 2382455; 584029, 2382429; 584239, 2382394; 584403, 2382353; 584543, 2382327; 584645, 2382327; 584683, 2382348; 584739, 2382399; 584830, 2382482; 584887, 2382512; 585005, 2382536; 585351, 2382429; 585717, 2382289; 585716, 2382286; 585752, 2382241; 585768, 2382198; 585824, 2382023; 585886, 2381779; 585980, 2381556; 586066, 2381360; 586117, 2381263; 586160, 2381102; 586187, 2381003; 586185, 2380994; 586194, 2381018; 587237, 2380368; 587270, 2380095; 587173, 2379878; 587172, 2379589; 587188, 2379357; 587068, 2379293; 586522, 2379581; 586266, 2379646; 585873, 2380239; 585834, 2380237; 585753, 2380262; 585675, 2380288; 585603, 2380334; 585495, 2380404; 585383, 2380509; return to starting point.

(ii) NOTE: Map 98 follows:

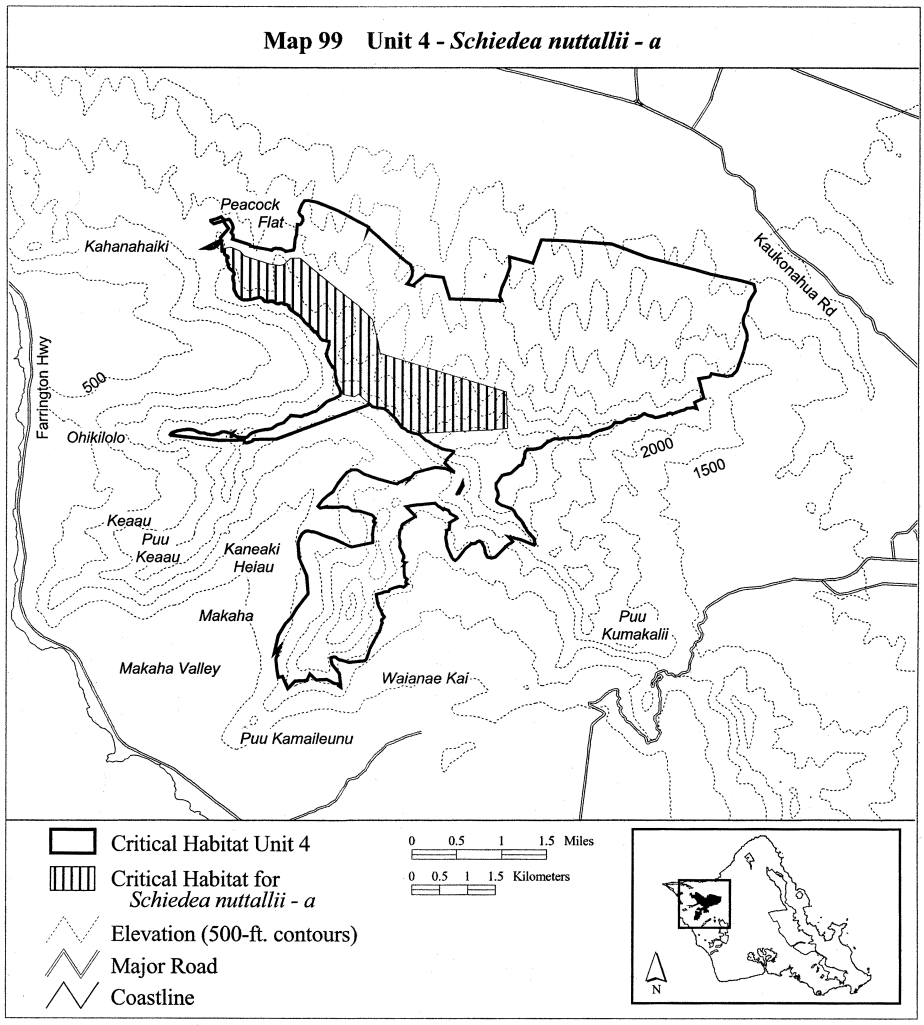


(99) Oahu 4—*Schiedea nuttallii*—a (527 ha; 1,303 ac)

(i) Unit consists of the following 248 boundary points: Start at 583882, 2381544; 583879, 2381544; 583760, 2381566; 583747, 2381571; 583730, 2381588; 583709, 2381612; 583707, 2381614; 583694, 2381639; 583685, 2381655; 583672, 2381685; 583659, 2381711; 583652, 2381731; 583651, 2381742; 583651, 2381757; 583651, 2381773; 583651, 2381789; 583651, 2381805; 583651, 2381806; 583649, 2381820; 583644, 2381847; 583642, 2381874; 583639, 2381896; 583638, 2381897; 583634, 2381907; 583631, 2381919; 583629, 2381934; 583630, 2381951; 583633, 2381969; 583638, 2381979; 583645, 2381993; 583645, 2381994; 583649, 2382013; 583649, 2382018; 583648, 2382029; 583647, 2382030; 583641, 2382045; 583640, 2382045; 583626, 2382059; 583610, 2382073; 583590, 2382091; 583570, 2382107; 583561, 2382120; 583552, 2382135; 583546, 2382153; 583536, 2382180; 583529, 2382214; 583523, 2382238; 583518, 2382254; 583517, 2382264; 583517, 2382276; 583518, 2382287; 583521, 2382299; 583528, 2382305; 583535, 2382312; 583535, 2382313; 583535, 2382319; 583531, 2382326; 583523, 2382334;

583522, 2382334; 583511, 2382337; 583498, 2382345; 583497, 2382345; 583486, 2382351; 583477, 2382362; 583474, 2382370; 583475, 2382383; 583475, 2382397; 583474, 2382404; 583474, 2382405; 583469, 2382411; 583468, 2382411; 583457, 2382416; 583443, 2382421; 583435, 2382424; 583430, 2382430; 583429, 2382440; 583430, 2382454; 583564, 2382494; 583605, 2382494; 583766, 2382417; 583833, 2382339; 583972, 2382293; 584282, 2382190; 584463, 2382159; 584546, 2382190; 584670, 2382298; 584825, 2382303; 585042, 2382122; 585408, 2381813; 585857, 2381456; 586121, 2381203; 586229, 2380760; 586265, 2380574; 586263, 2380570; 586271, 2380579; 588524, 2379889; 588546, 2379230; 588163, 2379202; 586906, 2379133; 586653, 2379250; 586421, 2379576; 586132, 2379620; 585877, 2379851; 585856, 2379830; 585789, 2379804; 585567, 2379851; 585554, 2379870; 585558, 2379891; 585558, 2379892; 585557, 2379892; 585548, 2379922; 585550, 2379928; 585550, 2379929; 585549, 2379929; 585549, 2379930; 585548, 2379930; 585547, 2379930; 585546, 2379929; 585545, 2379931; 585539, 2379943; 585531, 2379963; 585523, 2379982; 585522, 2379982; 585511, 2380001; 585498, 2380021; 585488, 2380040; 585483, 2380053; 585478, 2380071; 585475, 2380089; 585476, 2380103; 585474, 2380125; 585474, 2380128; 585472, 2380137; 585468, 2380149; 585465, 2380159; 585474, 2380228; 585469, 2380290; 585446, 2380303; 585443, 2380310; 585430, 2380325; 585430, 2380326; 585418, 2380335; 585393, 2380361; 585375, 2380388; 585364, 2380407; 585353, 2380428; 585342, 2380452; 585330, 2380478; 585322, 2381797; 585318, 2380512; 585308, 2380533; 585305, 2380540; 585309, 2380616; 585315, 2380636; 585327, 2380677; 585338, 2380712; 585339, 2380712; 585344, 2380738; 585346, 2380754; 585345, 2380767; 585345, 2380779; 585348, 2380789; 585348, 2380790; 585344, 2380798; 585344, 2380799; 585338, 2380802; 585329, 2380804; 585328, 2380804; 585308, 2380806; 585279, 2380811; 585245, 2380818; 585233, 2380820; 585181, 2380867; 585167, 2380888; 585157, 2380904; 585138, 2380929; 585119, 2380952; 585119, 2380953; 585107, 2380962; 585106, 2380963; 585094, 2380968; 585078, 2380975; 585067, 2380980; 585061, 2380987; 585053, 2381000; 585039, 2381021; 585027, 2381040; 585011, 2381059; 584993, 2381074; 584993, 2381075; 584973, 2381090; 584954, 2381104; 584939, 2381117; 584923, 2381137; 584905, 2381157; 584891, 2381175; 584867, 2381205; 584852, 2381221; 584844, 2381230; 584843, 2381230; 584813, 2381261; 584796, 2381273; 584778, 2381284; 584774, 2381287; 584751, 2381303; 584728, 2381318; 584708, 2381329; 584693, 2381342; 584638, 2381399; 584636, 2381408; 584633, 2381420; 584628, 2381430; 584618, 2381442; 584617, 2381442; 584601, 2381452; 584581, 2381462; 584562, 2381467; 584539, 2381475; 584519, 2381483; 584494, 2381489; 584478, 2381486; 584462, 2381479; 584401, 2381484; 584383, 2381494; 584357, 2381507; 584350, 2381511; 584325, 2381523; 584324, 2381523; 584310, 2381528; 584309, 2381528; 584291, 2381527; 584290, 2381527; 584281, 2381521; 584275, 2381516; 584266, 2381511; 584260, 2381511; 584181, 2381531; 584167, 2381553; 584150, 2381572; 584130, 2381584; 584129, 2381584; 584104, 2381586; 584065, 2381583; 584021, 2381575; 583992, 2381567; 583957, 2381557; 583934, 2381555; 583897, 2381549; return to starting point.

(ii) NOTE: Map 99 follows:

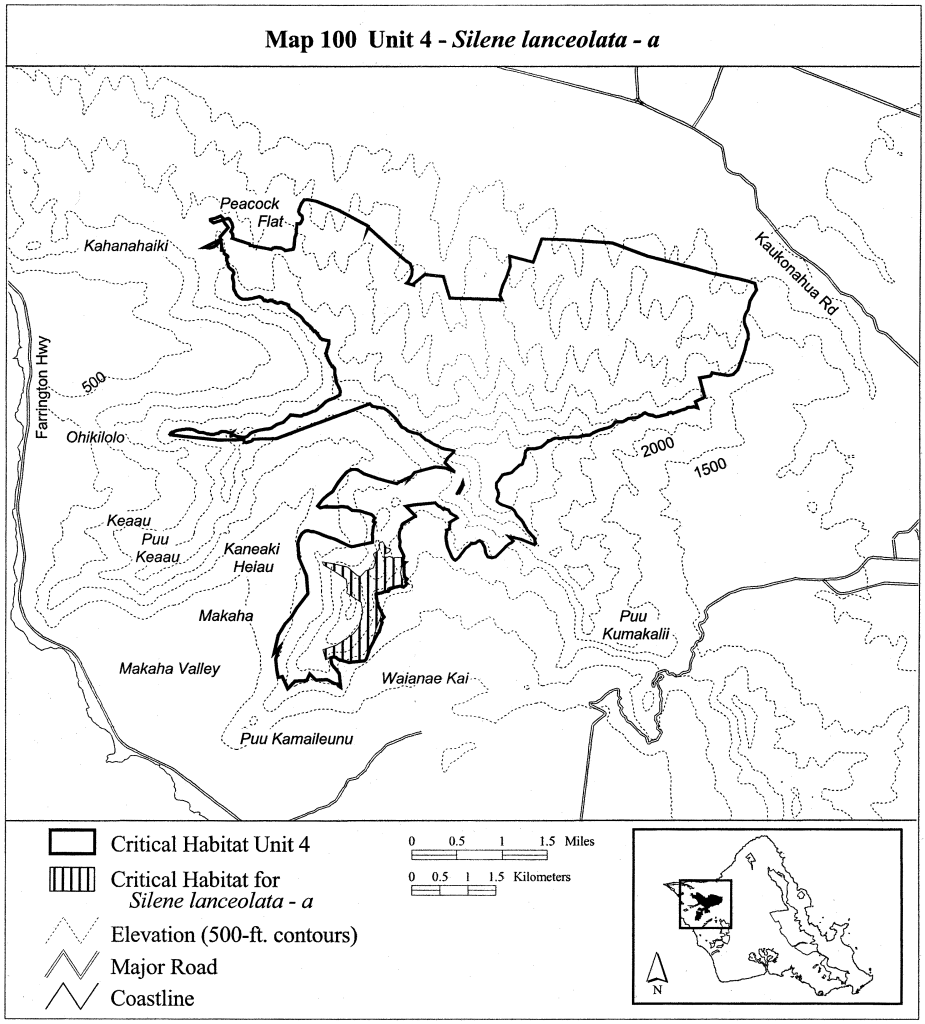


(100) Oahu 4—*Silene lanceolata*—a (113 ha; 280 ac)

(i) Unit consists of the following 70 boundary points: Start at 585235, 2376822; 585462, 2376783; 585696, 2376727; 585781, 2376649; 585867, 2376571; 585916, 2376560; 585987, 2376620; 586016, 2376666; 586090, 2376680; 586157, 2376709; 586179, 2376805; 586182, 2376876; 586154, 2376950; 586164, 2376975; 586242, 2377032; 586267, 2377099; 586264, 2377163; 586321, 2377180; 586349, 2377141; 586395, 2377071; 586430, 2377067; 586462, 2377039; 586427, 2376996; 586342, 2376957; 586345, 2376918; 586395, 2376900; 586416, 2376911; 586448, 2376922; 586505, 2376897; 586562, 2376904; 586594, 2376904; 586657, 2376904; 586661, 2376851; 586682, 2376819; 586718, 2376798; 586657, 2376755; 586657, 2376712; 586633, 2376631; 586650, 2376585; 586668, 2376532; 586714, 2376489; 586735, 2376450; 586735, 2376404; 586696, 2376365; 586579, 2376400; 586519, 2376383; 586477, 2376376; 586413, 2376344; 586402, 2376308; 586186, 2376269; 586179, 2376162; 586312, 2375895; 586186, 2375546; 586127, 2375360; 586029, 2375074; 586003,

2375053; 585710, 2375018; 585450, 2375122; 585302, 2375070; 585257, 2375248; 585502, 2375327; 585800, 2375531; 585889, 2375650; 585963, 2375910; 585941, 2376095; 585673, 2376266; 585696, 2376326; 585666, 2376512; 585450, 2376653; 585264, 2376764; return to starting point.

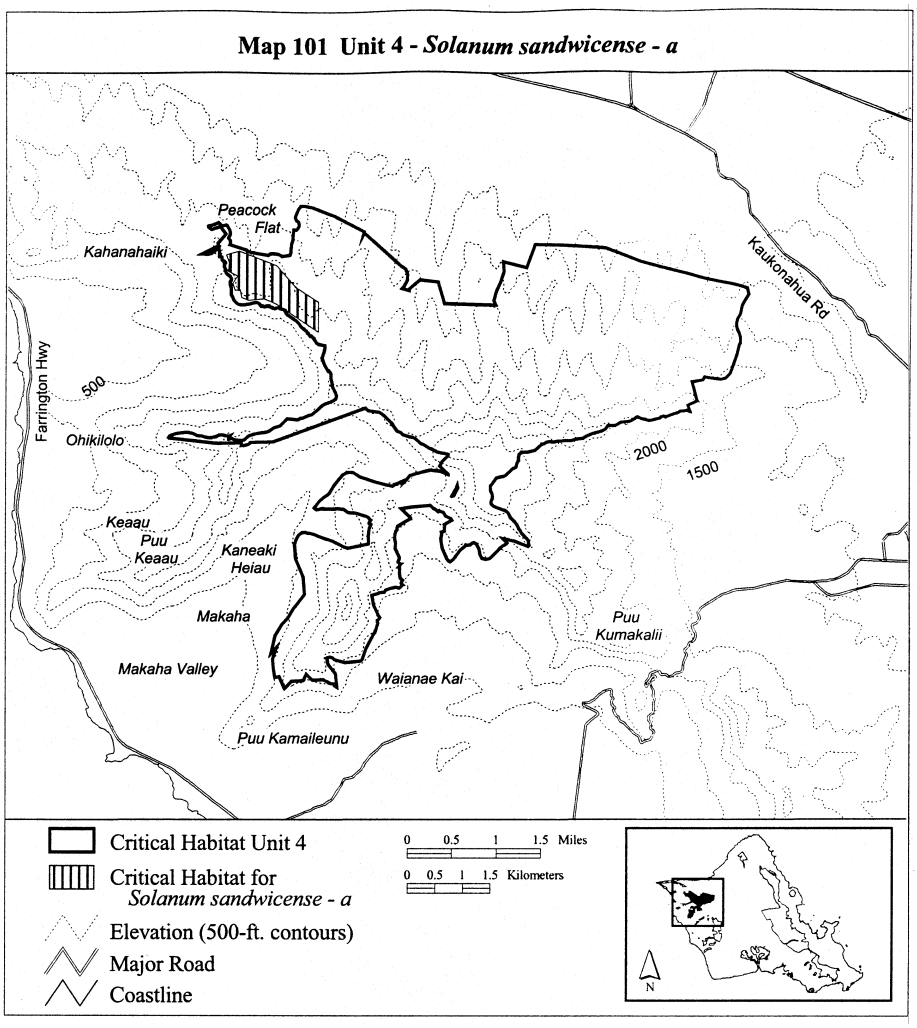
(ii) NOTE: Map 100 follows:



(101) Oahu 4—*Solanum sandwicense*—a (105 ha; 258 ac)

(i) Unit consists of the following 16 boundary points: Start at 583559, 2382457; 583792, 2382513; 584478, 2382255; 584821, 2381863; 585232, 2381588; 585232, 2381049; 584471, 2381551; 584245, 2381655; 583969, 2381631; 583841, 2381680; 583810, 2381814; 583718, 2381808; 583675, 2381925; 583767, 2382072; 583590, 2382151; 583608, 2382317; return to starting point.

(ii) NOTE: Map 101 follows:

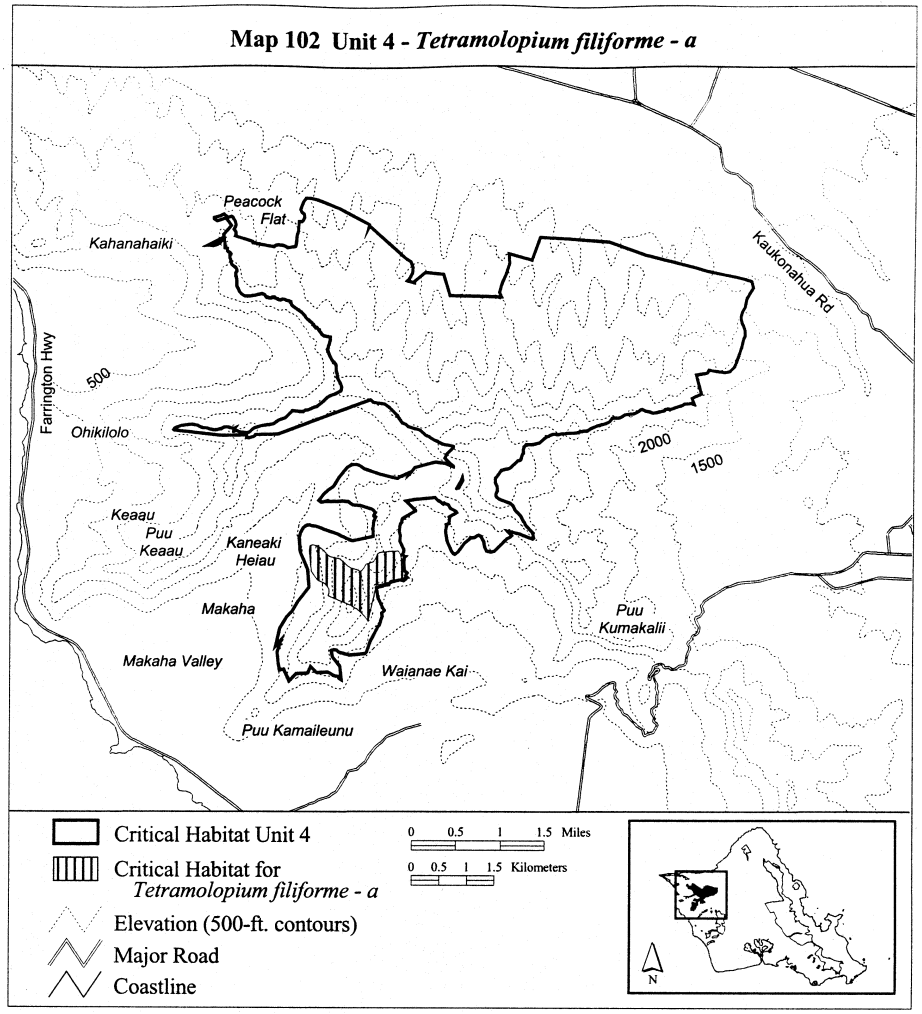


(102) Oahu 4—*Tetramolopium filiforme*—a (110 ha; 273 ac)

(i) Unit consists of the following 61 boundary points: Start at 585056, 2377021; 585144, 2376990; 585223, 2376941; 585273, 2376888; 585315, 2376838; 585364, 2376800; 585444, 2376781; 585535, 2376762; 585611, 2376705; 585664, 2376652; 585710, 2376622; 585748, 2376591; 585816, 2376576; 585870, 2376553; 585900, 2376530; 585949, 2376561; 585984, 2376614; 586014, 2376663; 586090, 2376694; 586151, 2376709; 586185, 2376770; 586216, 2376861; 586269, 2376888; 586360, 2376895; 586428, 2376899; 586497, 2376903; 586588, 2376907; 586638, 2376842; 586645, 2376781; 586664, 2376720; 586657, 2376675; 586657, 2376637; 586679, 2376584; 586717, 2376538; 586755, 2376508; 586717, 2376447; 586687, 2376409; 586615, 2376382; 586562, 2376363; 586451, 2376374; 586432, 2376336; 586193, 2376280; 586185, 2376207; 586052, 2375626; 585995, 2375721; 585911, 2375800; 585843, 2375854; 585767, 2375899; 585762, 2375889; 585758, 2375912; 585332, 2376097; 585349, 2376150; 585349, 2376207; 585311, 2376264; 585265, 2376317; 585136, 2376378; 585026, 2376527; 585007, 2376656;

584999, 2376770; 584980, 2376907; 584999, 2376998; return to starting point.

(ii) NOTE: Map 102 follows:

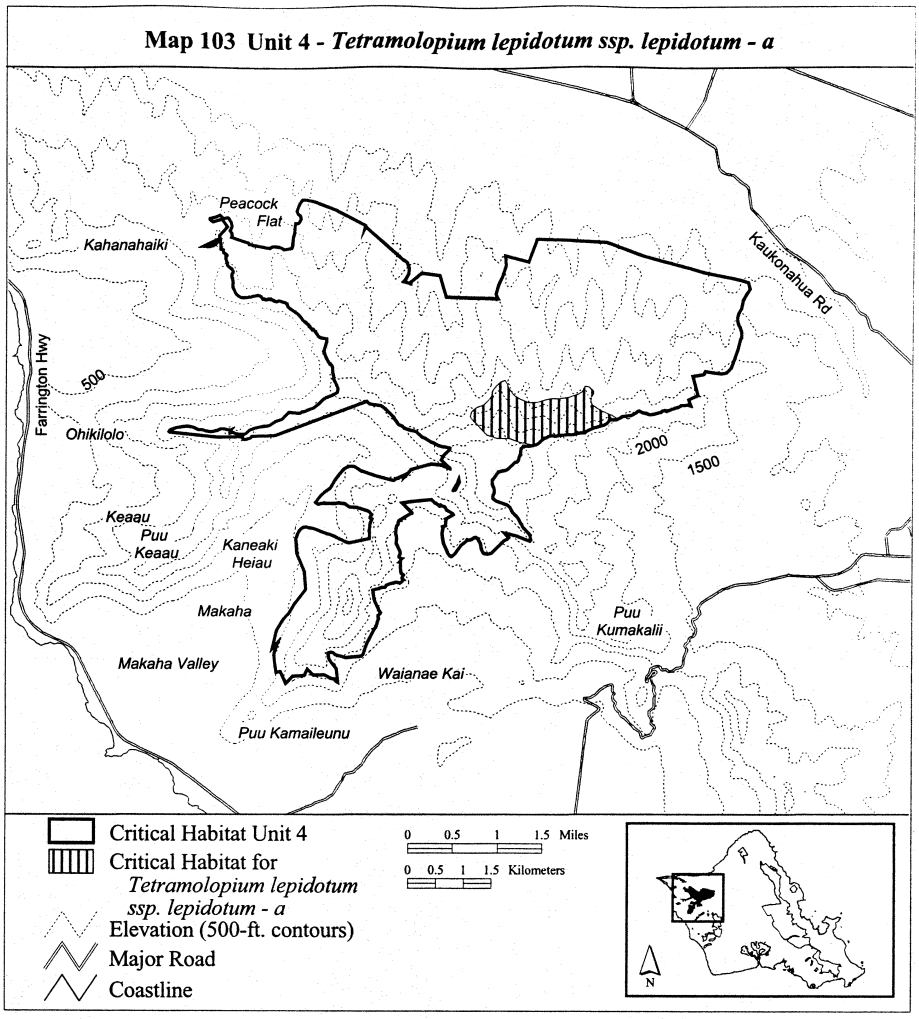


(103) Oahu 4—*Tetramolopium lepidotum* ssp. *lepidotum*—a (167 ha; 413 ac)

(i) Unit consists of the following 107 boundary points: Start at 588571, 2380048; 588609, 2379981; 588651, 2379880; 588730, 2379784; 588859, 2379700; 589002, 2379650; 589153, 2379658; 589270, 2379692; 589408, 2379717; 589559, 2379717; 589718, 2379746; 589890, 2379805; 589962, 2379847; 590016, 2379947; 590079, 2379935; 590125, 2379897; 590171, 2379851; 590163, 2379792; 590129, 2379733; 590117, 2379658; 590142, 2379612; 590255, 2379536; 590351, 2379478; 590448, 2379448; 590506, 2379419; 590586, 2379365; 590607, 2379344; 590593, 2379338; 590572, 2379336; 590525, 2379340; 590514, 2379339; 590479, 2379340; 590478, 2379340; 590462, 2379334; 590444, 2379312; 590415, 2379277; 590373, 2379247; 590347, 2379233;

590321, 2379227; 590285, 2379219; 590191, 2379191; 590084, 2379149; 590076, 2379145; 590067, 2379142; 590066, 2379141; 590039, 2379117; 590020, 2379104; 590012, 2379101; 589944, 2379099; 589907, 2379095; 589906, 2379095; 589881, 2379089; 589839, 2379075; 589839, 2379074; 589806, 2379068; 589790, 2379069; 589787, 2379069; 589747, 2379069; 589705, 2379066; 589675, 2379063; 589616, 2379059; 589604, 2379058; 589557, 2379052; 589519, 2379042; 589496, 2379035; 589462, 2379034; 589441, 2379042; 589424, 2379047; 589391, 2379048; 589370, 2379041; 589369, 2379041; 589348, 2379025; 589324, 2379009; 589303, 2379003; 589286, 2379001; 589285, 2379001; 589276, 2378998; 589275, 2378998; 589245, 2378974; 589244, 2378974; 589217, 2378943; 589164, 2378898; 589149, 2378886; 589123, 2378879; 589095, 2378872; 588960, 2378899; 588847, 2378916; 588775, 2378950; 588679, 2378979; 588620, 2378992; 588524, 2378992; 588432, 2378992; 588348, 2379017; 588256, 2379059; 588176, 2379130; 588084, 2379235; 587992, 2379318; 587950, 2379386; 587962, 2379461; 588008, 2379515; 588080, 2379562; 588190, 2379603; 588269, 2379683; 588328, 2379767; 588340, 2379847; 588408, 2379935; 588491, 2380023; return to starting point.

(ii) NOTE: Map 103 follows:

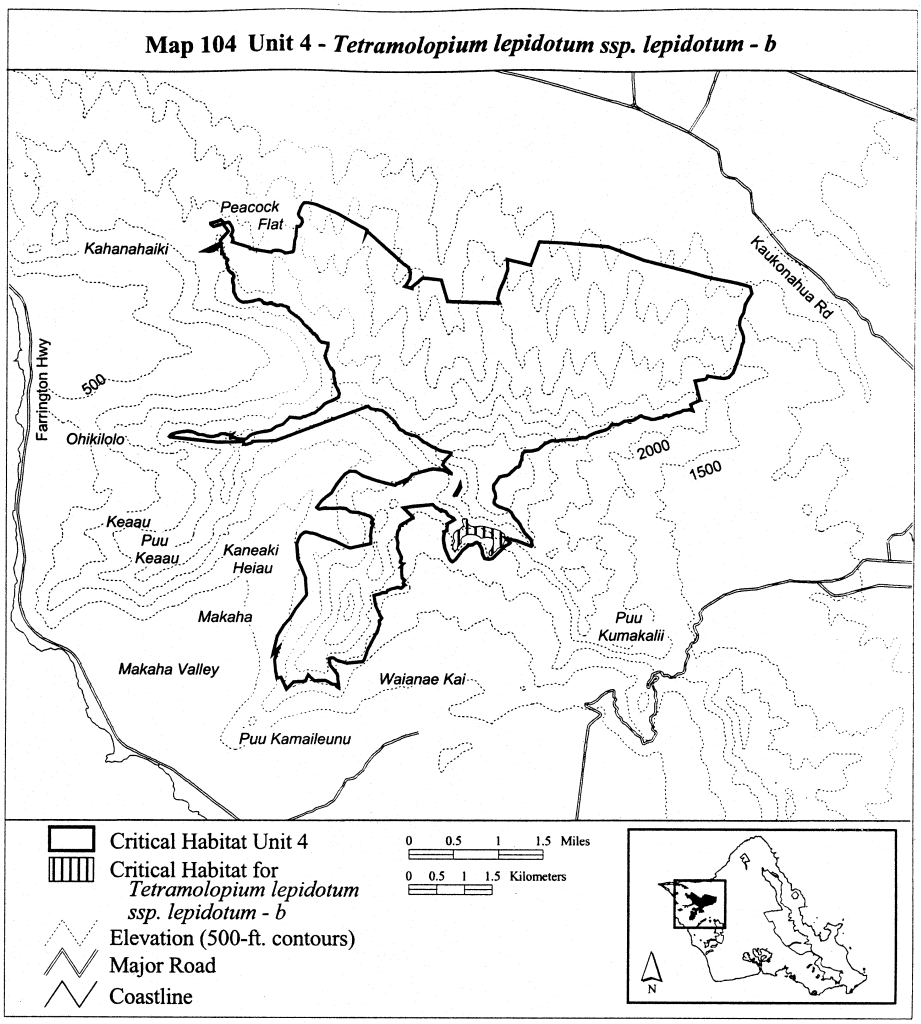


(104) Oahu 4—*Tetramolopium lepidotum* ssp. *lepidotum*—b (23 ha; 56 ac)

(i) Unit consists of the following 66 boundary points: Start at 587816, 2377513; 587792, 2377572; 587790, 2377601; 587795, 2377624; 587819, 2377630; 587851, 2377630; 587871, 2377624; 587880, 2377589; 587880, 2377548; 587912, 2377519; 587945, 2377490; 588021, 2377481; 588094, 2377490; 588167, 2377490; 588269, 2377469; 588360, 2377446; 588465, 2377408; 588541, 2377349; 588550, 2377305; 588553, 2377253; 588544, 2377215; 588526, 2377162; 588494, 2377118; 588430, 2377092; 588398, 2377045; 588354, 2377007; 588322, 2376955; 588290, 2376955; 588275, 2376981; 588275, 2377007; 588278, 2377034; 588307, 2377072; 588342, 2377145; 588342, 2377183; 588348, 2377232; 588342, 2377256; 588301, 2377285; 588243, 2377291; 588173, 2377285; 588129, 2377279; 588100, 2377300; 588029, 2377341; 587947, 2377343; 587880, 2377343; 587790, 2377297; 587763, 2377247; 587775, 2377186; 587740, 2377156; 587702, 2377115; 587696, 2377074; 587667, 2377045; 587632, 2377057; 587617, 2377083; 587614, 2377115; 587614, 2377148; 587629, 2377183; 587646, 2377206; 587649, 2377235;

587632, 2377253; 587629, 2377273; 587629, 2377297; 587629, 2377314; 587629, 2377341; 587655, 2377376; 587699, 2377417; 587746, 2377440; return to starting point.

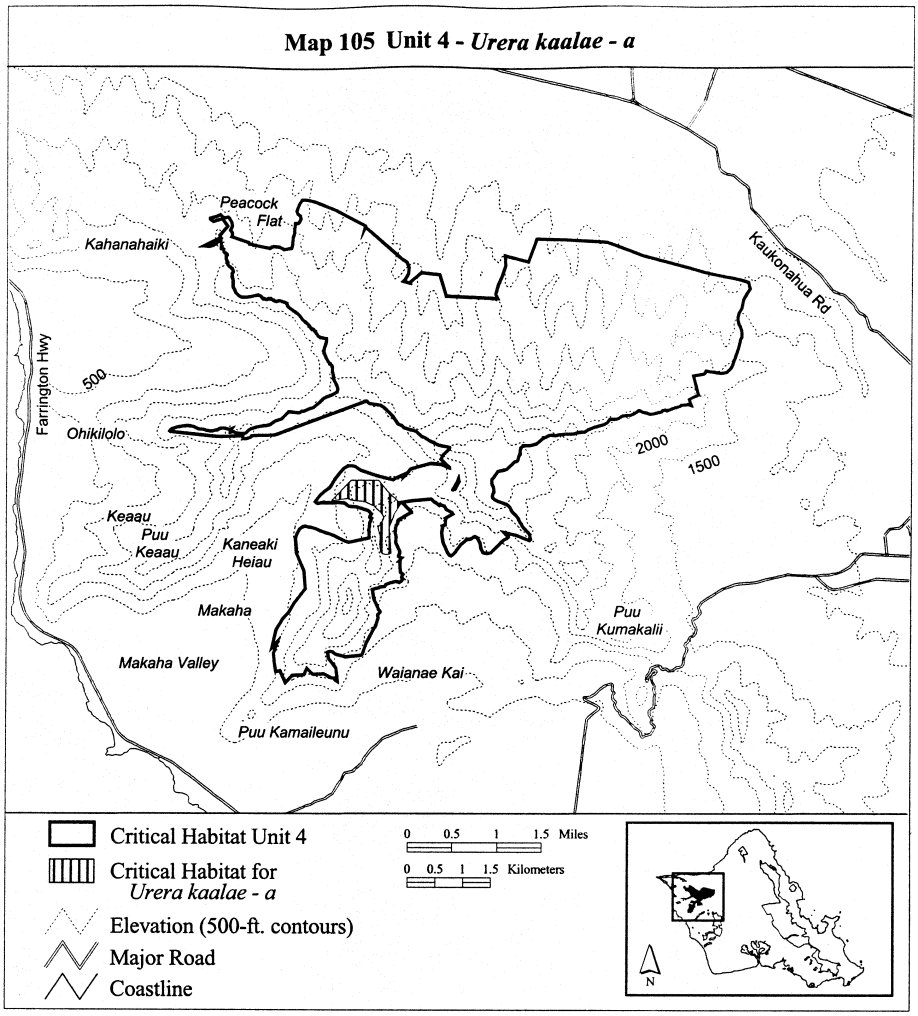
(ii) NOTE: Map 104 follows:



(105) Oahu 4—*Urera kaalae*—a (54 ha; 133 ac)

(i) Unit consists of the following 31 boundary points: Start at 585458, 2377846; 585812, 2378215; 586314, 2378215; 586485, 2378006; 586713, 2377795; 586580, 2377592; 586584, 2377579; 586581, 2377578; 586501, 2377367; 586539, 2376893; 586461, 2376877; 586391, 2376882; 586345, 2376923; 586333, 2376996; 586330, 2377057; 586333, 2377159; 586333, 2377211; 586316, 2377276; 586298, 2377354; 586336, 2377407; 586383, 2377482; 586397, 2377546; 586383, 2377590; 586333, 2377651; 586257, 2377718; 586220, 2377753; 586147, 2377794; 586042, 2377838; 585908, 2377849; 585826, 2377858; 585739, 2377890; return to starting point.

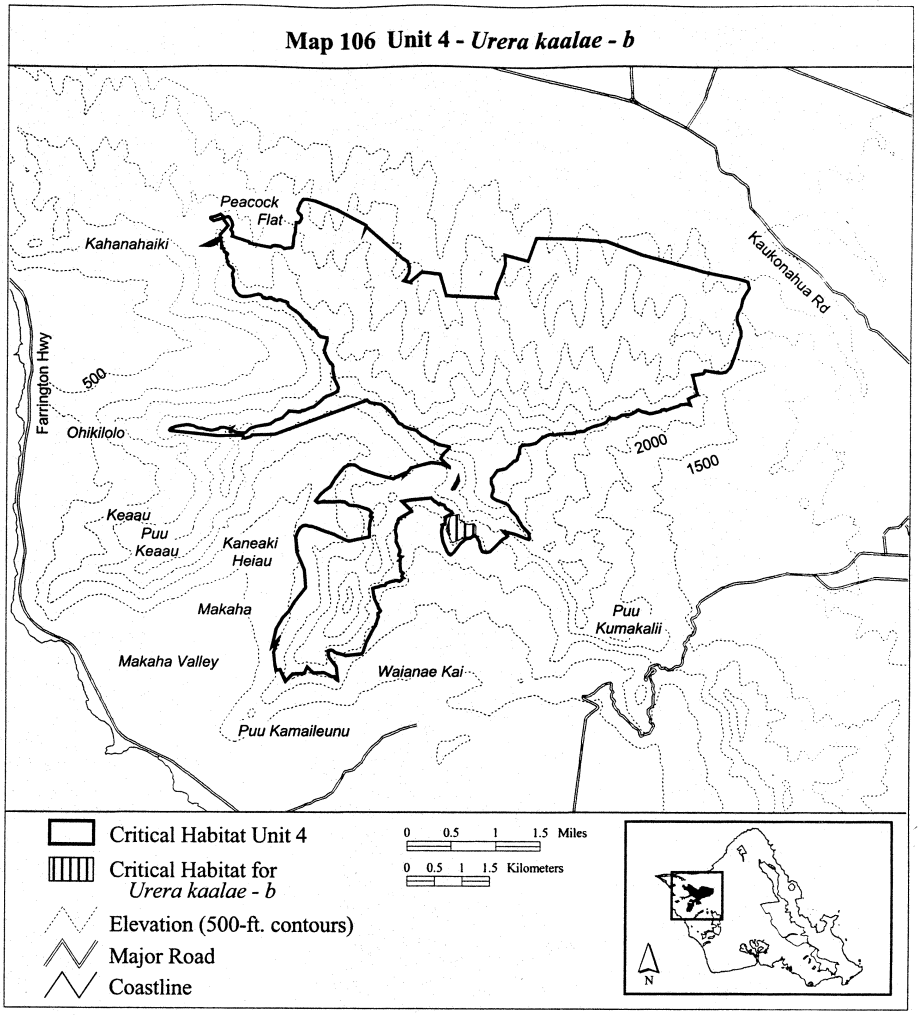
(ii) NOTE: Map 105 follows:



(106) Oahu 4—*Urera kaalae*—b (17 ha; 43 ac)

(i) Unit consists of the following 19 boundary points: Start at 587770, 2377591; 587772, 2377573; 587772, 2377497; 587839, 2377453; 587894, 2377418; 587949, 2377404; 588028, 2377418; 588048, 2377418; 588066, 2377395; 588077, 2377363; 588074, 2377316; 588072, 2377217; 588022, 2377191; 587970, 2377156; 587819, 2377145; 587817, 2377146; 587650, 2377076; 587531, 2377302; 587609, 2377557; return to starting point.

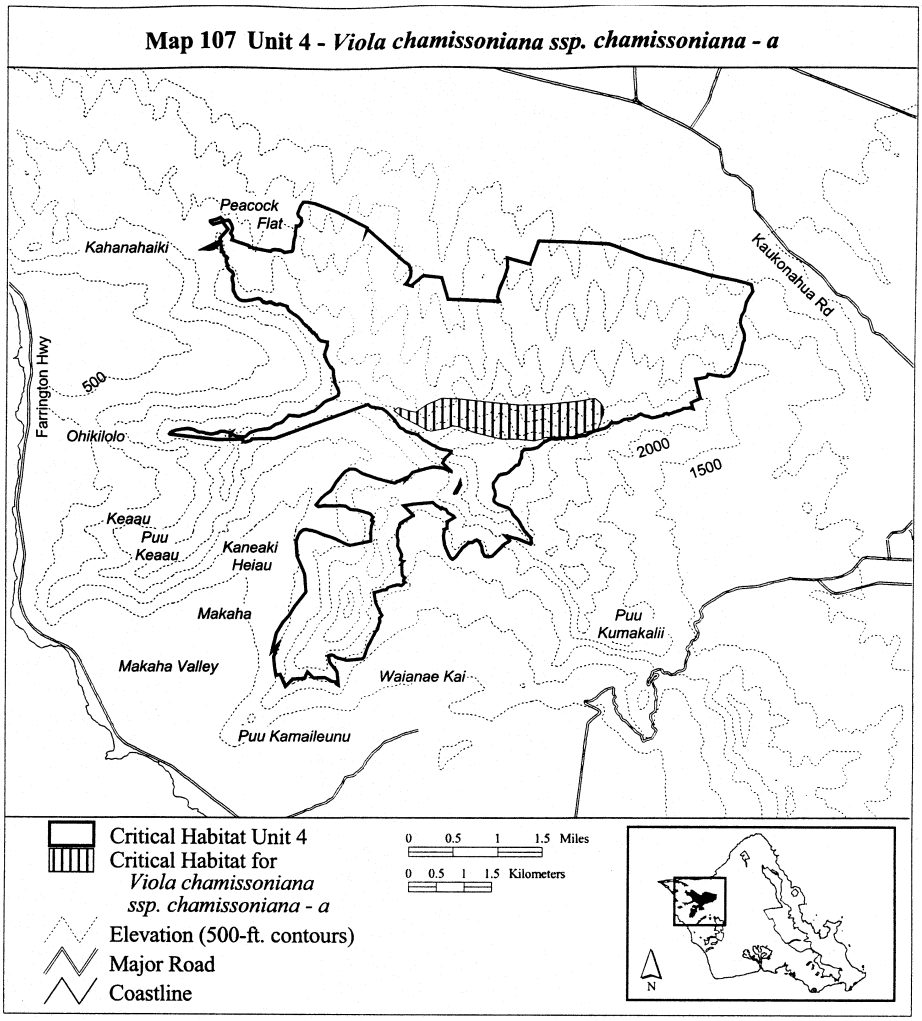
(ii) NOTE: Map 106 follows:



(107) Oahu 4—*Viola chamissoniana* ssp. *chamissoniana*—a (199 ha; 491 ac)

(i) Unit consists of the following 41 boundary points: Start at 590207, 2379196; 590092, 2379192; 589906, 2379127; 589750, 2379084; 589624, 2379079; 589290, 2379071; 589228, 2379052; 589230, 2379049; 589091, 2379014; 588770, 2379040; 588489, 2379036; 588276, 2379092; 588003, 2379153; 587743, 2379257; 587613, 2379279; 587501, 2379235; 587323, 2379201; 587215, 2379183; 587124, 2379214; 586963, 2379305; 586686, 2379448; 586543, 2379552; 586625, 2379612; 586799, 2379552; 586937, 2379530; 587158, 2379673; 587411, 2379781; 587701, 2379773; 588377, 2379703; 588887, 2379652; 588883, 2379660; 589178, 2379660; 589503, 2379690; 589888, 2379725; 590170, 2379781; 590265, 2379712; 590317, 2379638; 590339, 2379504; 590287, 2379404; 590244, 2379266; 590219, 2379199; return to starting point.

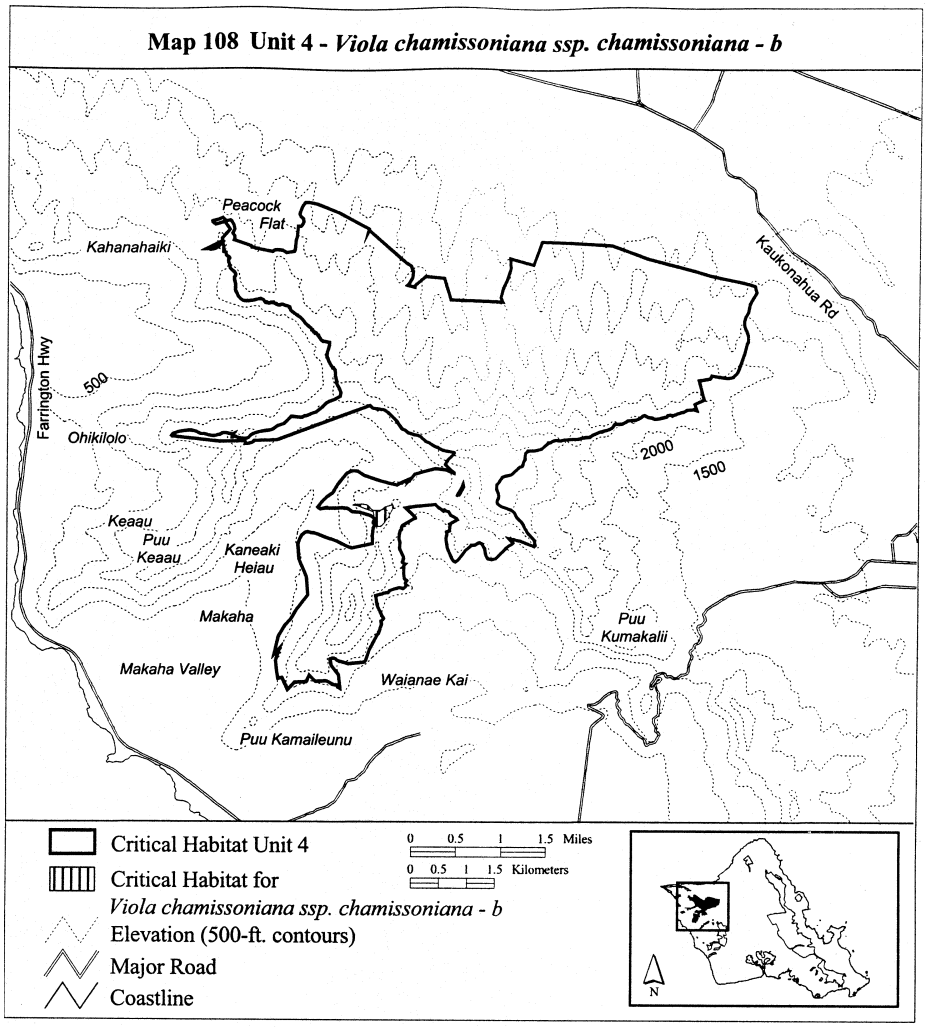
(ii) NOTE: Map 107 follows:



(108) Oahu 4—*Viola chamissoniana* ssp. *chamissoniana*—b (10 ha; 24 ac)

(i) Unit consists of the following 20 boundary points: Start at 585778, 2377867; 585813, 2377876; 585957, 2377886; 586055, 2377865; 586137, 2377773; 586287, 2377778; 586364, 2377840; 586494, 2377870; 586508, 2377829; 586425, 2377655; 586369, 2377577; 586292, 2377485; 586194, 2377485; 586173, 2377567; 586173, 2377649; 586167, 2377655; 586169, 2377657; 586142, 2377745; 586008, 2377805; 585868, 2377854; return to starting point.

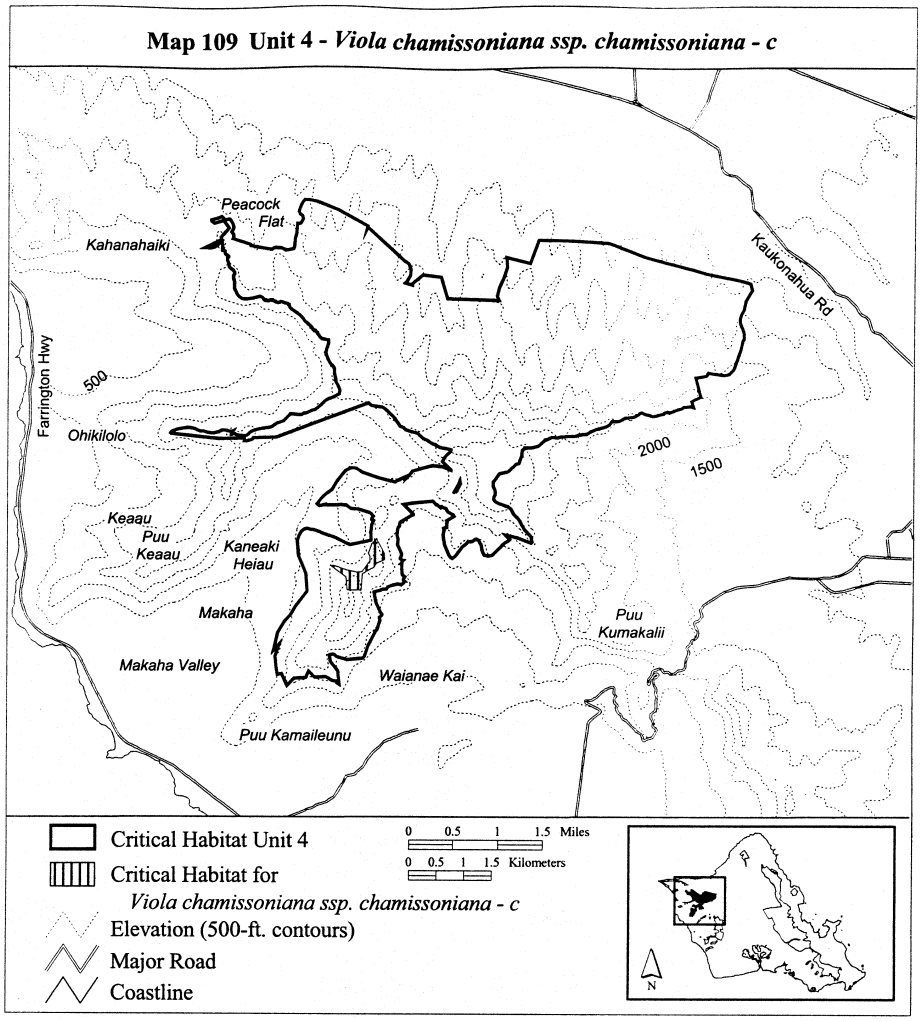
(ii) NOTE: Map 108 follows:



(109) Oahu 4—*Viola chamissoniana* ssp. *chamissoniana*—c (22 ha; 55 ac)

(i) Unit consists of the following 30 boundary points: Start at 585428, 2376708; 585474, 2376708; 585695, 2376636; 585880, 2376595; 585983, 2376600; 586009, 2376652; 586086, 2376749; 586122, 2376796; 586117, 2376873; 586096, 2376940; 586117, 2377007; 586158, 2377109; 586209, 2377161; 586240, 2377202; 586297, 2377094; 586384, 2376935; 586385, 2376934; 586388, 2376821; 586297, 2376788; 586233, 2376758; 586205, 2376688; 586122, 2376652; 585995, 2376564; 585996, 2376563; 585980, 2376564; 585968, 2376266; 585932, 2376276; 585708, 2376276; 585683, 2376512; 585423, 2376699; return to starting point.

(ii) NOTE: Map 109 follows:

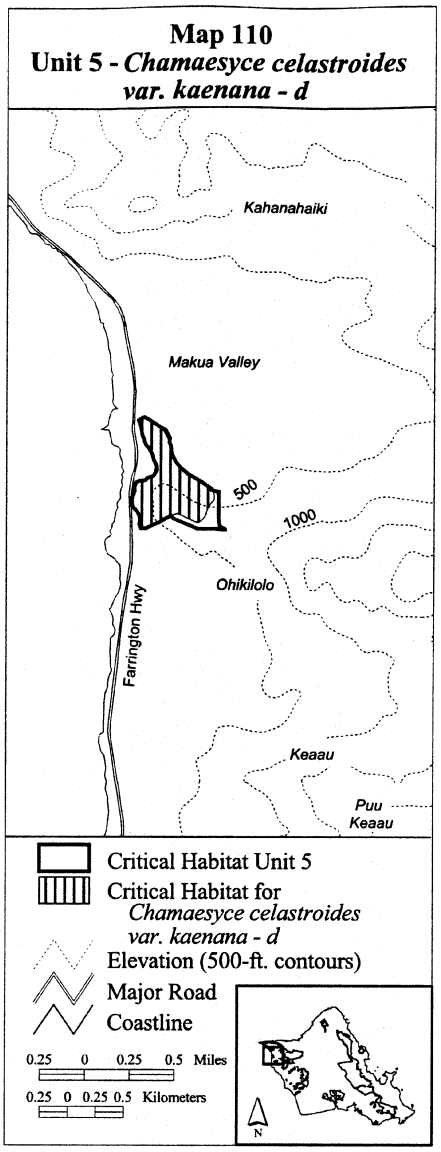


(110) Oahu 5—*Chamaesyce celastroides* var. *kaenana*—d (36 ha; 89 ac)

(i) Unit consists of the following 64 boundary points: Start at 580244, 2380495; 580287, 2380408; 580327, 2380329; 580333, 2380242; 580358, 2380198; 580391, 2380157; 580428, 2380124; 580482, 2380078; 580579, 2380022; 580685, 2379948; 580712, 2379892; 580712, 2379846; 580685, 2379815; 580652, 2379749; 580629, 2379697; 580604, 2379664; 580571, 2379639; 580521, 2379658; 580476, 2379680; 580426, 2379705; 580383, 2379724; 580329, 2379707; 580277, 2379680; 580217, 2379645; 580146, 2379612; 580097, 2379591; 580057, 2379587; 580051, 2379597; 580039, 2379624; 580047, 2379660; 580045, 2379689; 580026, 2379734; 579991, 2379776; 579971, 2379800; 579964, 2379818; 579966, 2379854; 580001, 2379917; 579995, 2379954; 580008, 2380000; 580028, 2380012; 580039, 2380016; 580094, 2380022; 580111, 2380039; 580165, 2380060; 580192, 2380103; 580194, 2380117; 580195, 2380118; 580196, 2380118; 580196, 2380119; 580196, 2380120; 580195, 2380123; 580198, 2380149; 580171, 2380198; 580159, 2380252; 580121, 2380315; 580100, 2380335; 580084, 2380370; 580084, 2380377;

580068, 2380433; 580055, 2380491; 580034, 2380557; 580070, 2380584; 580085, 2380590; 580235, 2380500; return to starting point.

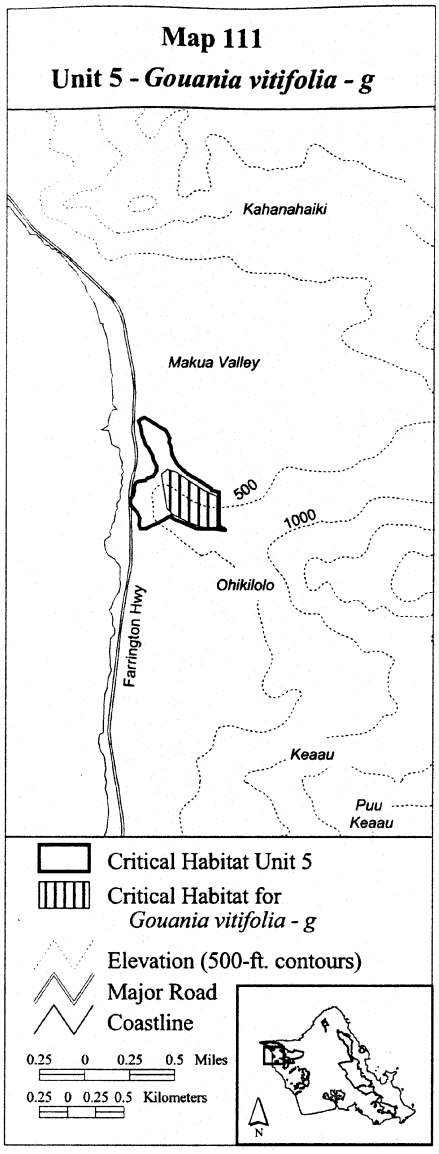
(ii) NOTE: Map 110 follows:



(111) Oahu 5—*Gouania vitifolia*—g (17 ha; 43 ac)

(i) Unit consists of the following 17 boundary points: Start at 580804, 2379587; 580691, 2379587; 580594, 2379609; 580481, 2379652; 580347, 2379722; 580287, 2379772; 580267, 2379896; 580239, 2380076; 580293, 2380120; 580373, 2380099; 580621, 2379932; 580754, 2379874; 580754, 2379672; 580764, 2379612; 580764, 2379611; 580765, 2379611; 580765, 2379610; return to starting point.

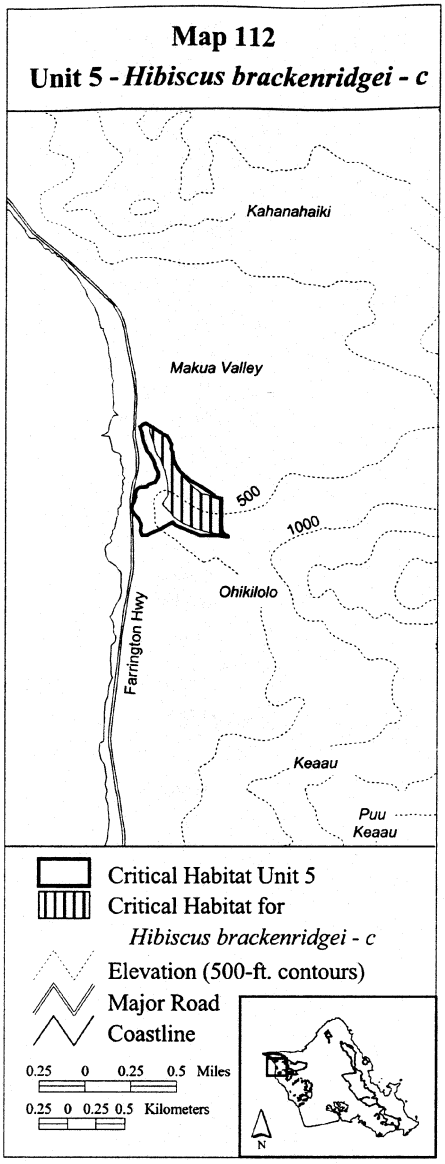
(ii) NOTE: Map 111 follows:



(112) Oahu 5—*Hibiscus brackenridgei*—c (23 ha; 56 ac)

(i) Unit consists of the following 46 boundary points: Start at 580785, 2379598; 580771, 2379599; 580645, 2379613; 580529, 2379645; 580415, 2379693; 580337, 2379752; 580298, 2379795; 580259, 2379844; 580235, 2379868; 580282, 2379943; 580277, 2380051; 580258, 2380152; 580259, 2380154; 580257, 2380160; 580247, 2380183; 580233, 2380213; 580225, 2380244; 580211, 2380280; 580189, 2380305; 580172, 2380341; 580162, 2380387; 580143, 2380450; 580128, 2380489; 580116, 2380538; 580128, 2380562; 580133, 2380562; 580235, 2380500; 580275, 2380478; 580296, 2380443; 580315, 2380399; 580310, 2380368; 580310, 2380324; 580332, 2380266; 580373, 2380169; 580427, 2380101; 580497, 2380026; 580577, 2379958; 580628, 2379950; 580742, 2379921; 580754, 2379920; 580754, 2379892; 580754, 2379672; 580764, 2379612; 580764, 2379611; 580765, 2379611; 580765, 2379610; return to starting point.

(ii) NOTE: Map 112 follows:

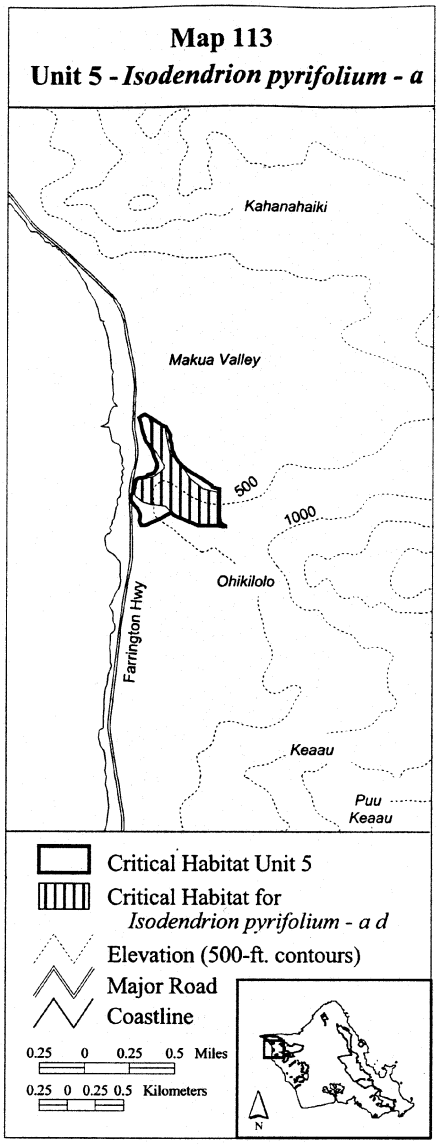


(113) Oahu 5—*Isodendrion pyrifolium*—a (30 ha; 75 ac)

(i) Unit consists of the following 38 boundary points: Start at 580262, 2380485; 580295, 2380309; 580312, 2380241; 580357, 2380192; 580436, 2380092; 580491, 2380011; 580610, 2379917; 580736, 2379889; 580754, 2379855; 580754, 2379672; 580764,

2379612; 580764, 2379611; 580765, 2379611; 580765, 2379610; 580815, 2379580; 580816, 2379580; 580822, 2379580; 580823, 2379577; 580789, 2379577; 580703, 2379591; 580563, 2379590; 580345, 2379682; 580321, 2379713; 580274, 2379760; 580151, 2379777; 580070, 2379798; 580002, 2379858; 580002, 2379900; 580024, 2379999; 580168, 2380028; 580259, 2380098; 580261, 2380130; 580193, 2380245; 580143, 2380312; 580138, 2380504; 580121, 2380555; 580130, 2380564; 580235, 2380500; return to starting point.

(ii) NOTE: Map 113 follows:

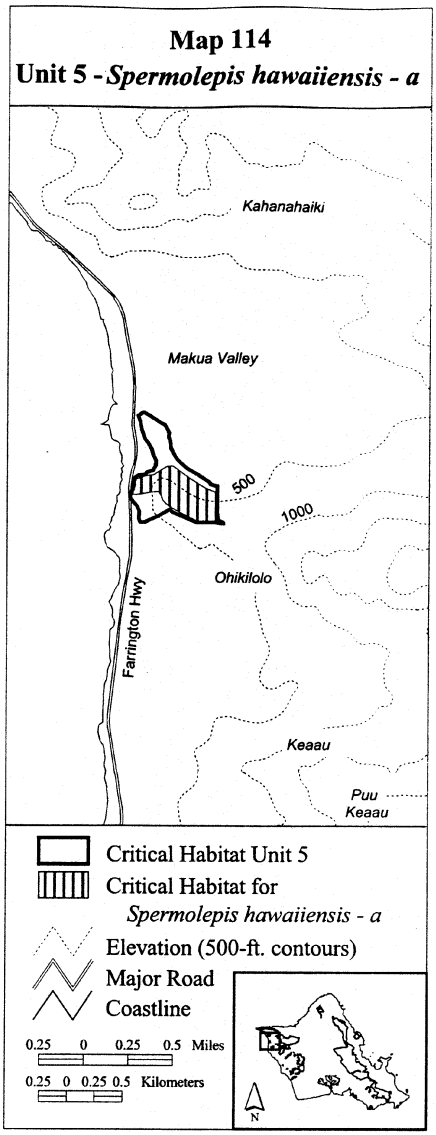


(114) Oahu 5—*Spermolepis hawaiiensis*—a (21 ha; 53 ac)

(i) Unit consists of the following 33 boundary points: Start at 580773, 2379589; 580678, 2379591; 580628, 2379591; 580552, 2379607; 580502, 2379632; 580411, 2379679; 580326, 2379733; 580282, 2379761; 580254, 2379796; 580244, 2379827; 580219, 2379868; 580156, 2379862; 580027, 2379836;

579983, 2379836; 579986, 2379884; 579996, 2379921; 580018, 2379978; 580103, 2380009; 580178, 2380019; 580238, 2380063; 580304, 2380100; 580348, 2380103; 580426, 2380047; 580489, 2380000; 580577, 2379940; 580646, 2379899; 580754, 2379857; 580754, 2379672; 580764, 2379612; 580764, 2379611; 580765, 2379611; 580765, 2379610; 580781, 2379601; return to starting point.

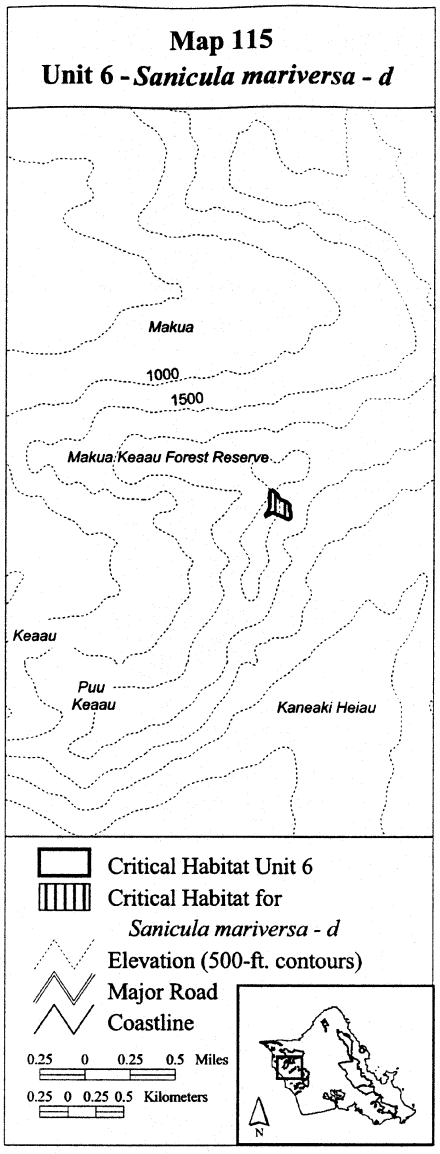
(ii) NOTE: Map 114 follows:



(115) Oahu 6—*Sanicula mariversa*—d (3 ha; 8 ac)

(i) Unit consists of the following 24 boundary points: Start at 583697, 2378888; 583747, 2378848; 583761, 2378823; 583779, 2378796; 583806, 2378789; 583834, 2378776; 583859, 2378754; 583859, 2378731; 583859, 2378704; 583869, 2378684; 583869, 2378664; 583871, 2378634; 583846, 2378622; 583804, 2378639; 583764, 2378662; 583712, 2378681; 583689, 2378674; 583649, 2378652; 583647, 2378662; 583667, 2378691; 583679, 2378734; 583682, 2378786; 583682, 2378826; 583682, 2378858; return to starting point.

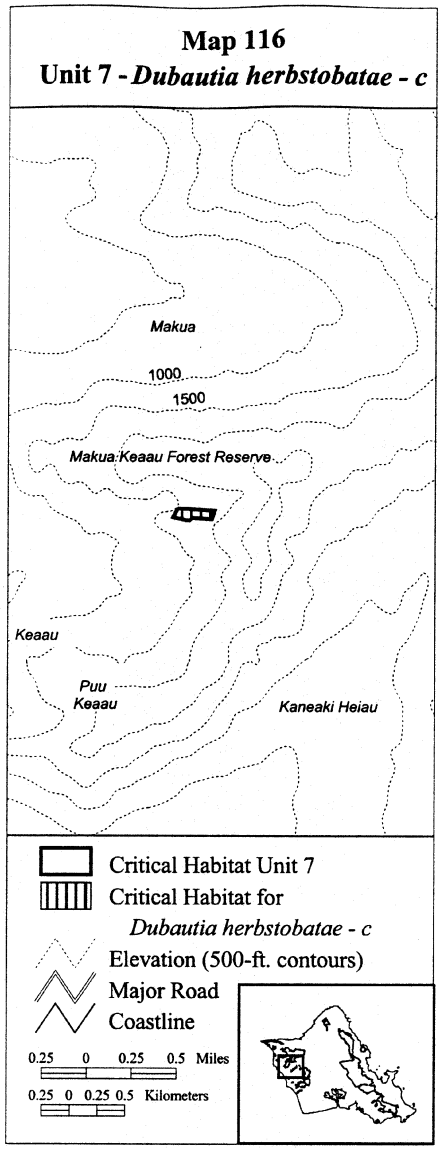
(ii) NOTE: Map 115 follows:



(116) Oahu 7—*Dubautia herbstobatae*—c (3 ha; 7 ac)

(i) Unit consists of the following 7 boundary points: Start at 582848, 2378716; 583079, 2378700; 583176, 2378698; 583153, 2378621; 582980, 2378631; 582949, 2378607; 582806, 2378636; return to starting point.

(ii) NOTE: Map 116 follows:

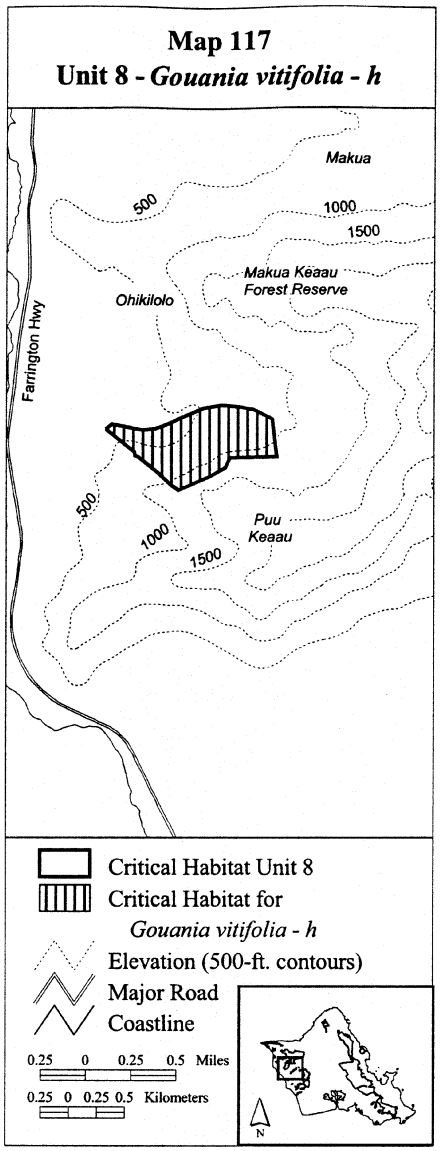


(117) Oahu 8—*Gouania vitifolia*—h (64 ha; 158 ac)

(i) Unit consists of the following 28 boundary points: Start at 580654, 2377938; 580709, 2377984; 580806, 2377963; 580926, 2377936; 580985, 2377929; 581093, 2377939; 581094, 2377939; 581095, 2377939; 581101, 2377941; 581175, 2377970; 581257, 2378005; 581291, 2378025; 581512, 2378121;

581530, 2378125; 581689, 2378150; 581847, 2378136; 581960, 2378115; 582134, 2378030; 582172, 2377688; 581756, 2377679; 581718, 2377589; 581587, 2377509; 581302, 2377381; 581231, 2377433; 581120, 2377540; 580943, 2377683; 580914, 2377696; 580911, 2377730; return to starting point.

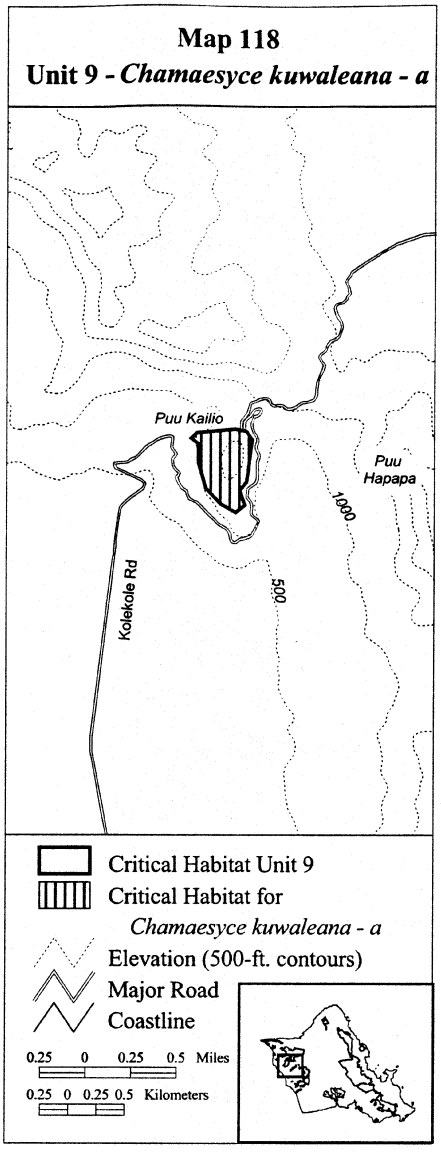
(ii) NOTE: Map 117 follows:



(118) Oahu 9—*Chamaesyce kuwaleana*—a (27 ha; 68 ac)

(i) Unit consists of the following 16 boundary points: Start at 590764, 2374474; 590702, 2374527; 590756, 2374577; 591092, 2374605; 591194, 2374586; 591246, 2374509; 591192, 2374128; 591132, 2374054; 591132, 2374053; 591178, 2373922; 591094, 2373855; 590958, 2373934; 590827, 2374078; 590765, 2374307; 590764, 2374472; 590764, 2374473; return to starting point.

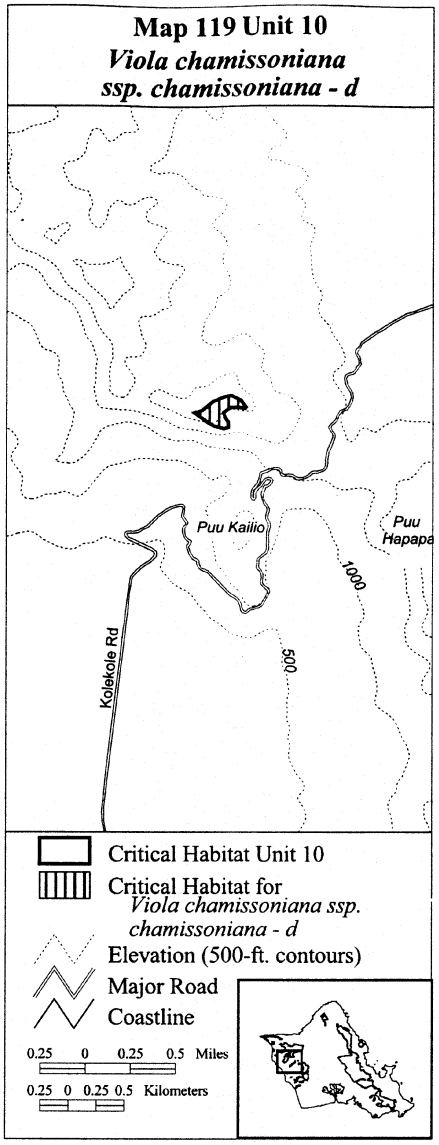
(ii) NOTE: Map 118 follows:



(119) Oahu 10—*Viola chamissoniana* ssp. *chamissoniana*—d (6 ha; 15 ac)

(i) Unit consists of the following 28 boundary points: Start at 591102, 2375422; 591028, 2375433; 590980, 2375431; 590964, 2375433; 590963, 2375433; 590960, 2375430; 590957, 2375430; 590894, 2375384; 590898, 2375364; 590897, 2375363; 590896, 2375362; 590896, 2375361; 590899, 2375358; 590902, 2375343; 590932, 2375301; 590935, 2375249; 590891, 2375236; 590801, 2375263; 590758, 2375290; 590631, 2375381; 590696, 2375399; 590697, 2375399; 590727, 2375419; 590807, 2375489; 590906, 2375529; 590965, 2375539; 590985, 2375529; 591044, 2375499; return to starting point.

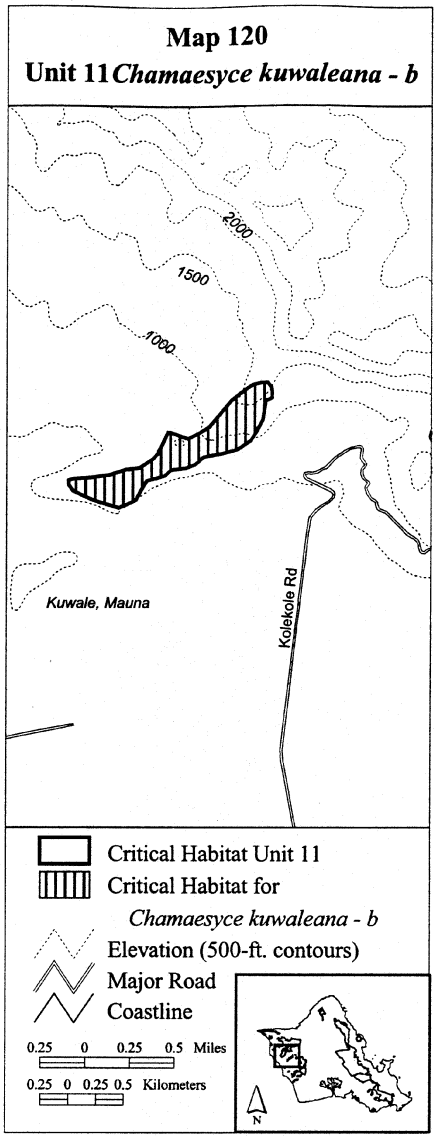
(ii) NOTE: Map 119 follows:



(120) Oahu 11—*Chamaesyce kuwaleana*—b (53 ha; 131 ac)

(i) Unit consists of the following 50 boundary points: Start at 589731, 2375043; 589731, 2374988; 589675, 2374965; 589652, 2374797; 589587, 2374675; 589540, 2374596; 589423, 2374516; 589292, 2374479; 589213, 2374465; 589114, 2374446; 589077, 2374409; 589030, 2374376; 588946, 2374343; 588820, 2374329; 588764, 2374278; 588684, 2374254; 588605, 2374231; 588549, 2374138; 588523, 2374090; 588506, 2374059; 588407, 2374010; 588348, 2373988; 588254, 2374016; 588133, 2374053; 588048, 2374091; 587941, 2374142; 587904, 2374198; 587904, 2374236; 587950, 2374250; 588095, 2374264; 588273, 2374287; 588418, 2374334; 588539, 2374348; 588661, 2374427; 588712, 2374484; 588712, 2374502; 588740, 2374558; 588792, 2374666; 588815, 2374666; 588890, 2374642; 588974, 2374614; 589068, 2374656; 589161, 2374717; 589255, 2374825; 589367, 2374965; 589456, 2375035; 589554, 2375105; 589629, 2375124; 589689, 2375129; 589725, 2375086; return to starting point.

(ii) NOTE: Map 120 follows:

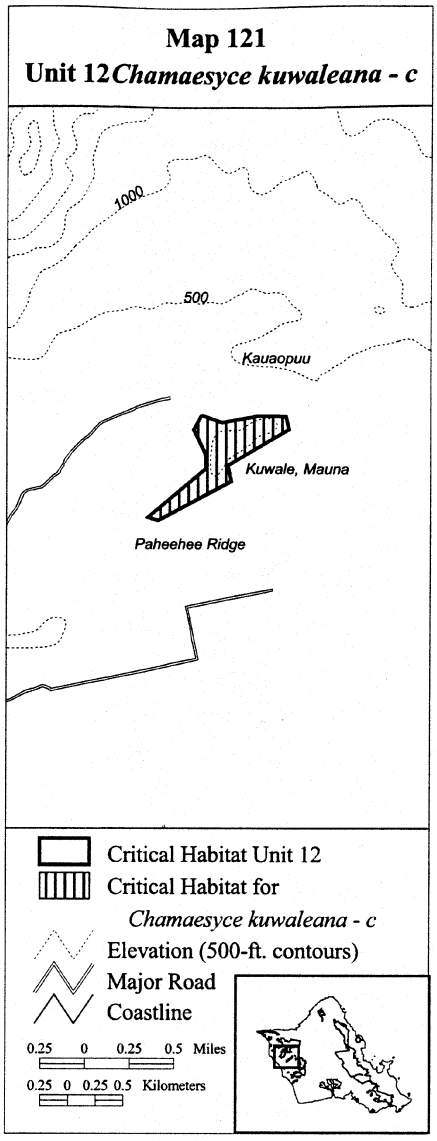


(121) Oahu 12—*Chamaesyce kuwaleana*—c (37 ha; 93 ac)

(i) Unit consists of the following 17 boundary points: Start at 587305, 2373616; 587489, 2373551; 587490, 2373551; 587822, 2373609; 588064, 2373606; 588091, 2373489; 587546, 2373163; 587545, 2373163; 587545, 2373162; 587573, 2373017; 586913, 2372661; 586822, 2372689; 587344, 2373134;

587344, 2373135; 587341, 2373263; 587341, 2373264; 587235, 2373485; return to starting point.

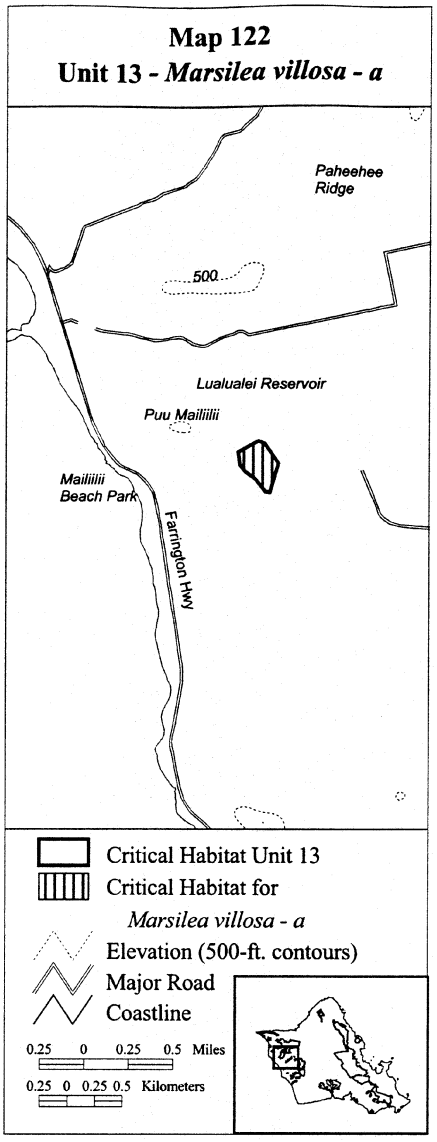
(ii) NOTE: Map 121 follows:



(122) Oahu 13—*Marsilea villosa*—a (10 ha; 25 ac)

(i) Unit consists of the following 9 boundary points: Start at 586020, 2369827; 585930, 2369901; 585879, 2369959; 585861, 2370075; 586047, 2370179; 586104, 2370158; 586226, 2369973; 586147, 2369710; 586105, 2369714; return to starting point.

(ii) NOTE: Map 122 follows:

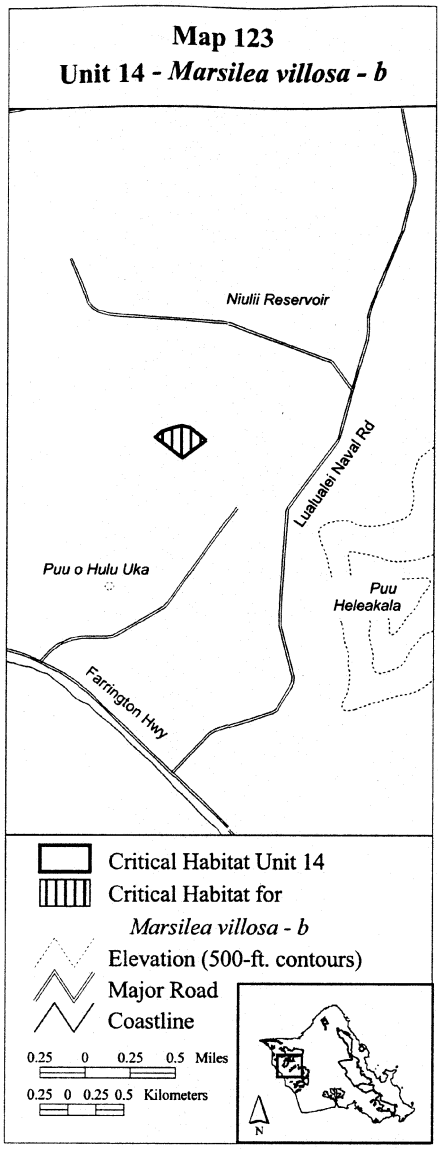


(123) Oahu 14—*Marsilea villosa*—b (7 ha; 18 ac)

(i) Unit consists of the following 7 boundary points: Start at 588190, 2368272; 587975, 2368116; 587738, 2368302;

587785, 2368349; 587880, 2368388; 587969, 2368406; 588040, 2368389; return to starting point.

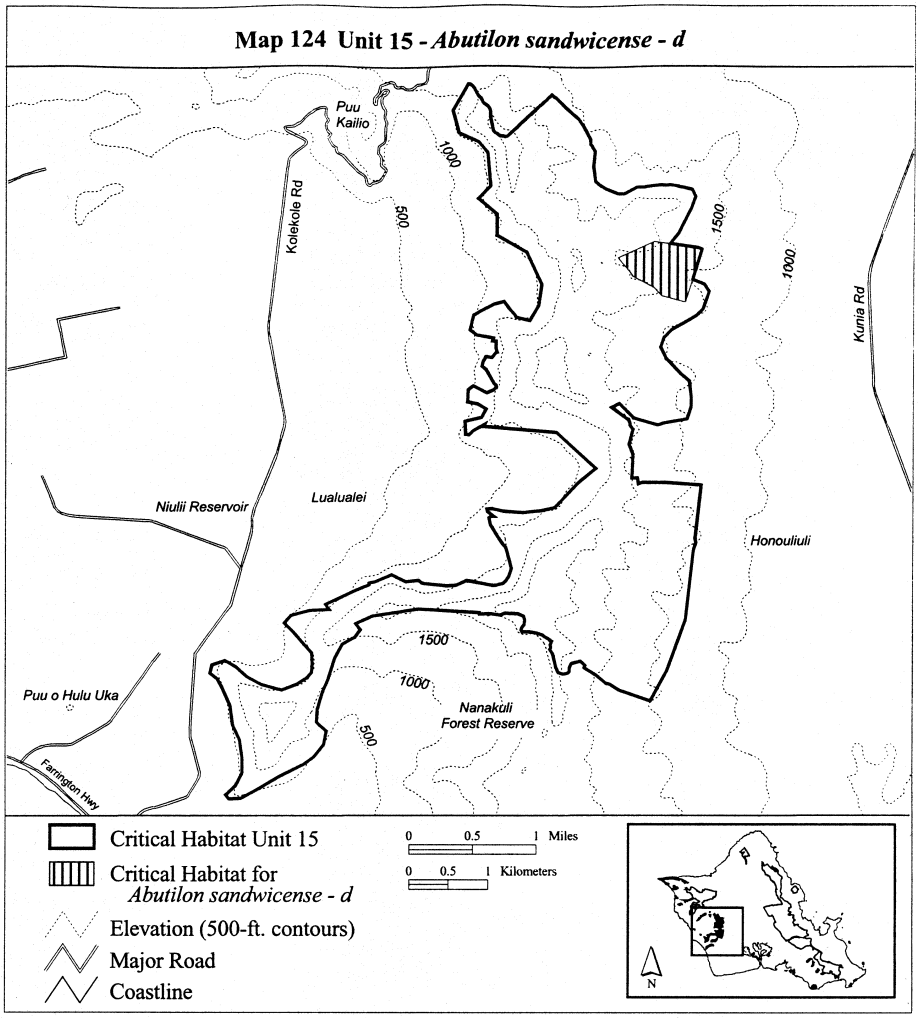
(ii) NOTE: Map 123 follows:



(124) Oahu 15—*Abutilon sandwicense*—d (49 ha; 121 ac)

(i) Unit consists of the following 11 boundary points: Start at 595071, 2372102; 595052, 2372104; 594771, 2372182; 594673, 2372285; 594450, 2372410; 594399, 2372438; 594400, 2372447; 594222, 2372665; 594678, 2372866; 595230, 2372788; 595275, 2372773; return to starting point.

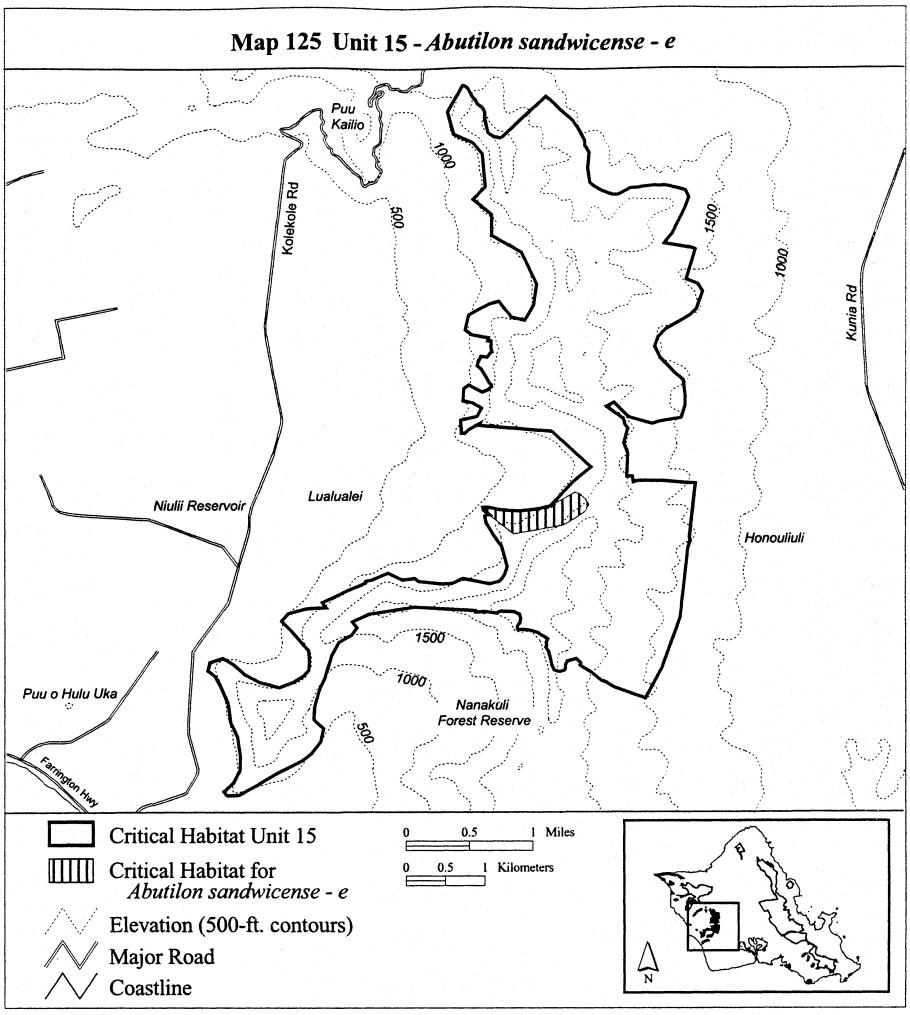
(ii) NOTE: Map 124 follows:



(125) Oahu 15—*Abutilon sandwicense*—e (33 ha; 81 ac)

(i) Unit consists of the following 16 boundary points: Start at 592582, 2369476; 592646, 2369487; 592785, 2369454; 593030, 2369435; 593278, 2369457; 593436, 2369499; 593620, 2369600; 593748, 2369668; 593812, 2369653; 593891, 2369574; 593929, 2369514; 593880, 2369431; 593741, 2369333; 593598, 2369252; 592970, 2369140; 592588, 2369449; return to starting point.

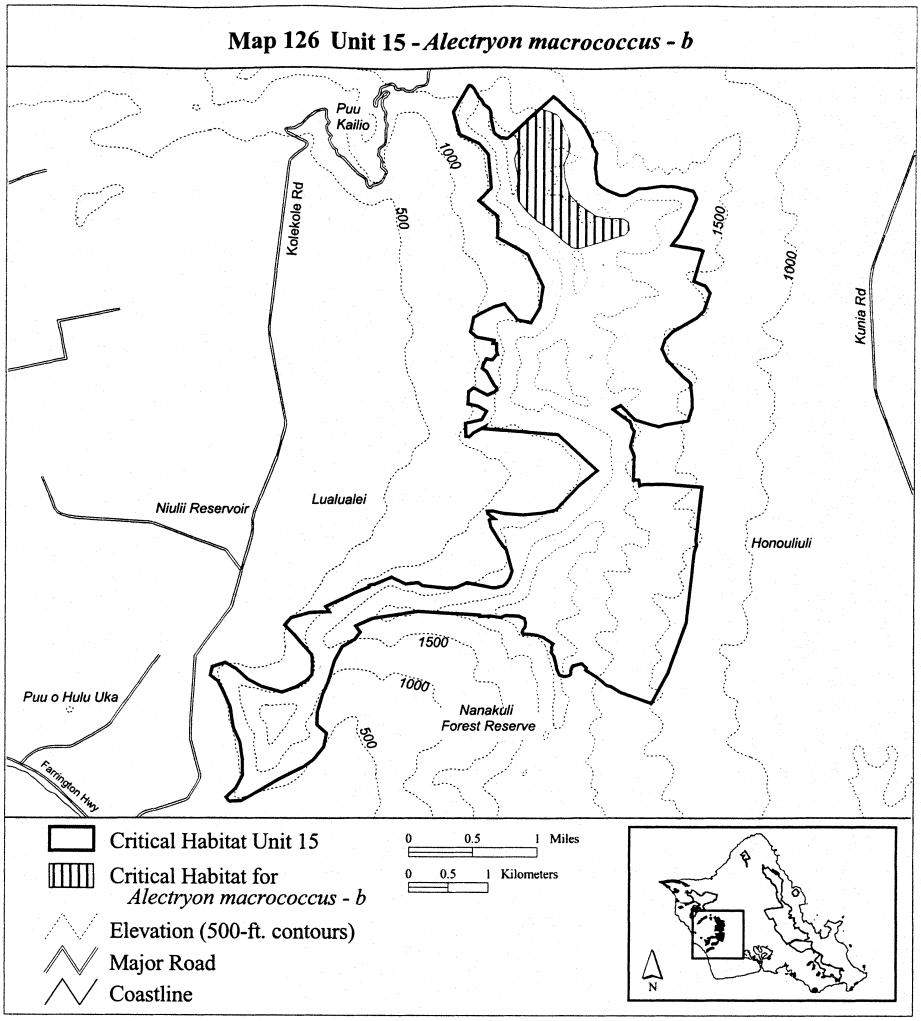
(ii) NOTE: Map 125 follows:



(126) Oahu 15—*Alectryon macrococcus*—b (112 ha; 278 ac)

(i) Unit consists of the following 45 boundary points: Start at 593221, 2374560; 593235, 2374556; 593343, 2374523; 593436, 2374483; 593475, 2374432; 593513, 2374340; 593574, 2374201; 593597, 2374102; 593577, 2374005; 593517, 2373864; 593533, 2373685; 593559, 2373602; 593597, 2373487; 593704, 2373370; 593817, 2373291; 593921, 2373215; 593923, 2373216; 594013, 2373194; 594092, 2373185; 594170, 2373185; 594266, 2373174; 594326, 2373130; 594333, 2373081; 594337, 2373029; 594297, 2372971; 593825, 2372840; 593697, 2372803; 593678, 2372808; 593619, 2372819; 593555, 2372874; 593497, 2372923; 593407, 2373011; 593336, 2373064; 593191, 2373152; 593065, 2373275; 592946, 2373412; 592933, 2373511; 592940, 2373661; 592933, 2373751; 592907, 2373870; 592905, 2373936; 592940, 2374033; 592938, 2374122; 592933, 2374163; 592875, 2374236; return to starting point.

(ii) NOTE: Map 126 follows:

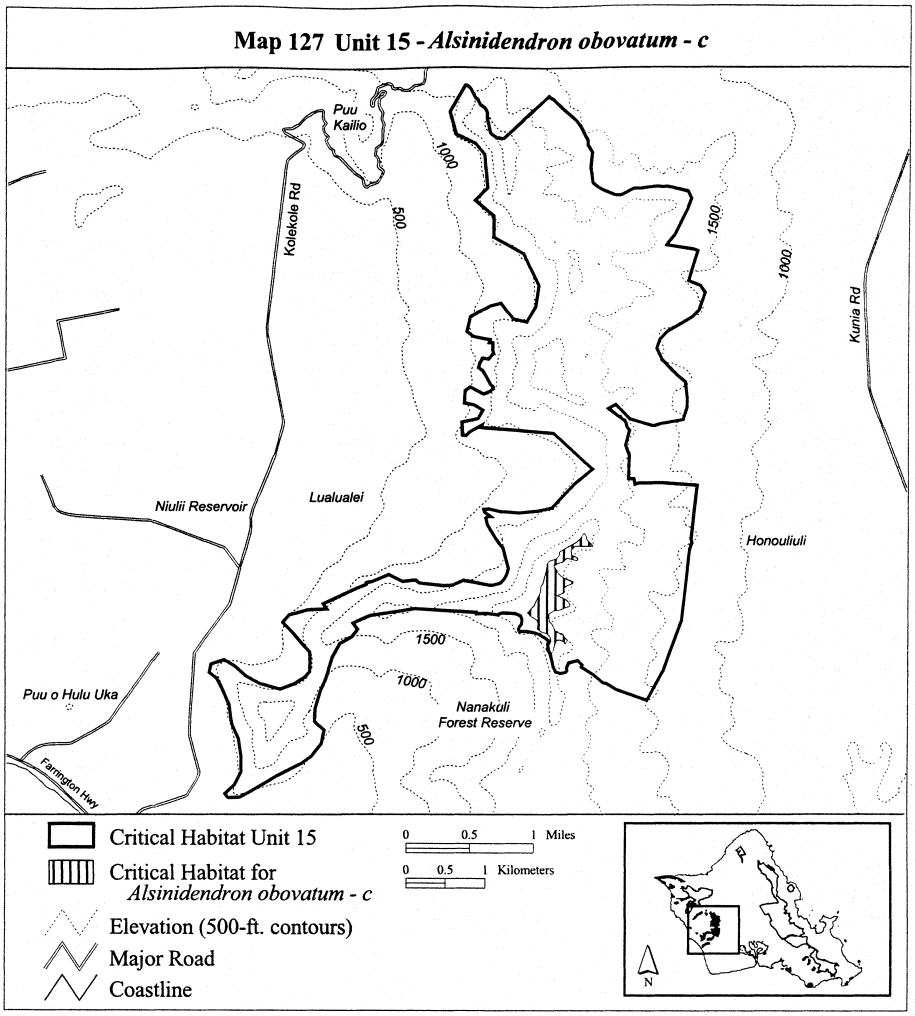


(127) Oahu 15—*Alsinidendron obovatum*—c (31 ha; 77 ac)

(i) Unit consists of the following 86 boundary points: Start at 593377, 2368762; 593383, 2368765; 593371, 2368765; 593408, 2368817; 593498, 2368851; 593529, 2368892; 593535, 2368933; 593628, 2368992; 593748, 2369057; 593800, 2369105; 593845, 2369174; 593876, 2369139; 593876, 2369098; 593906, 2369064; 593951, 2369019; 593944, 2369009; 593869, 2369009; 593831, 2369009; 593731, 2369009; 593683, 2368957; 593680, 2368944; 593690, 2368896; 593742, 2368878; 593766, 2368847; 593762, 2368834; 593735, 2368834; 593635, 2368854; 593573, 2368803; 593529, 2368799; 593484, 2368768; 593464, 2368768; 593487, 2368727; 593518, 2368669; 593553, 2368631; 593611, 2368593; 593666, 2368573; 593711, 2368555; 593697, 2368531; 593632, 2368504; 593597, 2368480; 593587, 2368452; 593604, 2368432; 593597, 2368418; 593532, 2368390; 593515, 2368377; 593621, 2368329; 593642, 2368308; 593666, 2368270; 593663, 2368246; 593587, 2368219; 593532, 2368195; 593467, 2368188; 593408, 2368153; 593408, 2368095; 593412, 2368054; 593436,

2368023; 593456, 2367985; 593474, 2367940; 593525, 2367909; 593577, 2367892; 593597, 2367858; 593639, 2367813; 593608, 2367765; 593587, 2367796; 593542, 2367820; 593501, 2367813; 593470, 2367731; 593456, 2367683; 593436, 2367641; 593419, 2367683; 593405, 2367748; 593429, 2367796; 593415, 2367858; 593371, 2367903; 593312, 2367920; 593250, 2367958; 593264, 2368026; 593247, 2368078; 593178, 2368122; 593137, 2368164; 593212, 2368253; 593247, 2368322; 593288, 2368411; 593305, 2368504; 593322, 2368518; 593357, 2368655; return to starting point.

(ii) NOTE: Map 127 follows:

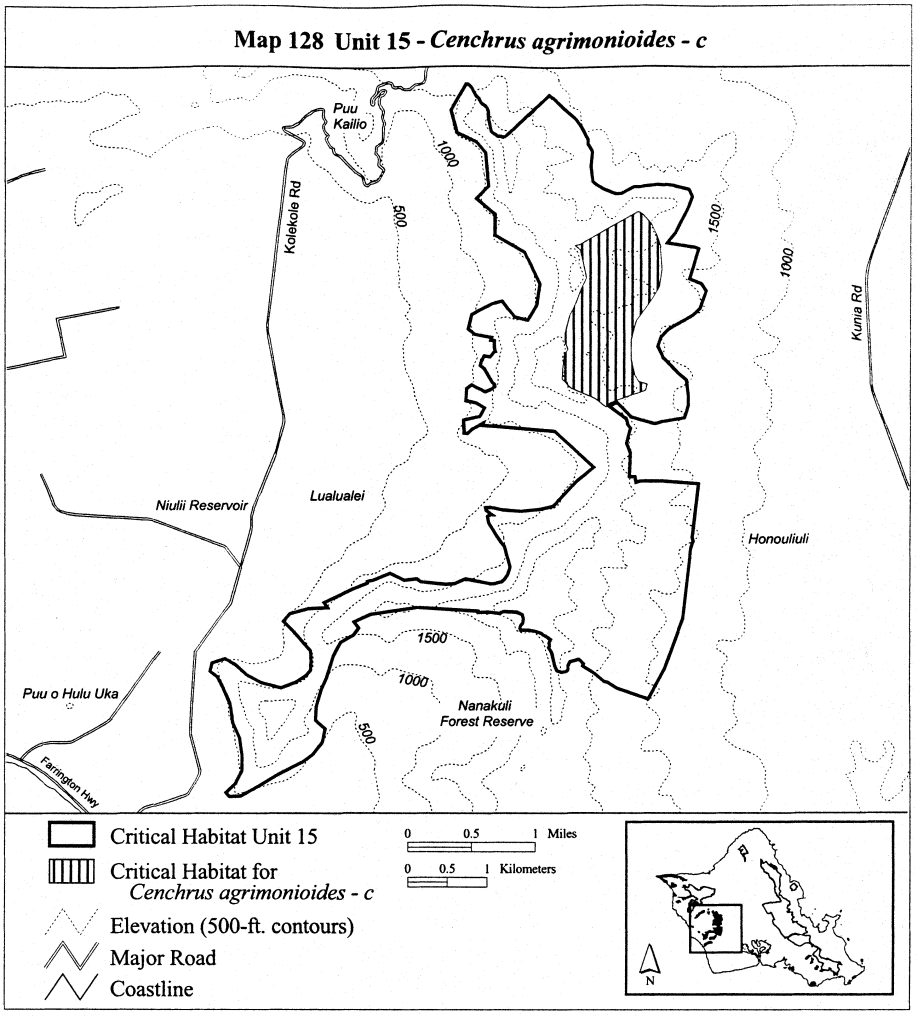


(128) Oahu 15—*Cenchrus agrimonioides*—c (200 ha; 495 ac)

(i) Unit consists of the following 40 boundary points: Start at 594510, 2373238; 594554, 2373214; 594677, 2373079; 594734, 2372964; 594788, 2372811; 594788, 2372810; 594796, 2372788; 594789, 2372787; 594807, 2372505; 594780, 2372283; 594685, 2372122; 594482, 2371850; 594424, 2371613;

594421, 2371368; 594463, 2371177; 594516, 2371089; 594627, 2371047; 594608, 2370974; 594455, 2370924; 594245, 2370844; 594153, 2370809; 594103, 2370764; 593969, 2370871; 593659, 2371005; 593552, 2371119; 593559, 2371250; 593579, 2371430; 593621, 2371492; 593586, 2371587; 593582, 2371683; 593648, 2371928; 593724, 2372081; 593793, 2372261; 593858, 2372402; 593789, 2372739; 593794, 2372740; 593762, 2372781; 593715, 2372815; 593771, 2372828; 594191, 2373064; return to starting point.

(ii) NOTE: Map 128 follows:

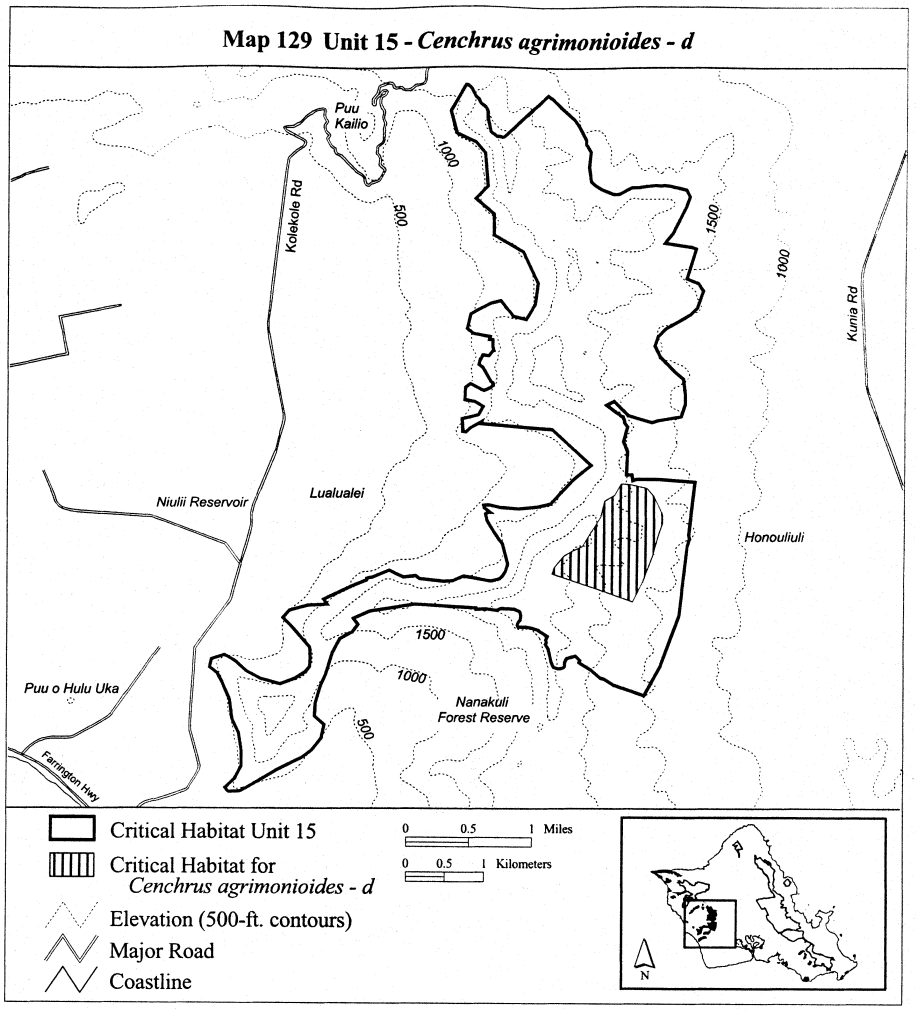


(129) Oahu 15—*Cenchrus agrimonioides*—d (117 ha; 290 ac)

(i) Unit consists of the following 20 boundary points: Start at 594341, 2369756; 594462, 2369749; 594672, 2369699; 594756, 2369602; 594869, 2369372; 594866, 2369258; 594816, 2369114; 594742, 2368834; 594619, 2368503; 594494, 2368251; 594139,

2368381; 593465, 2368603; 593489, 2368680; 593610, 2368830; 593716, 2368897; 593850, 2368961; 593934, 2369098; 594076, 2369327; 594127, 2369535; 594254, 2369615; return to starting point.

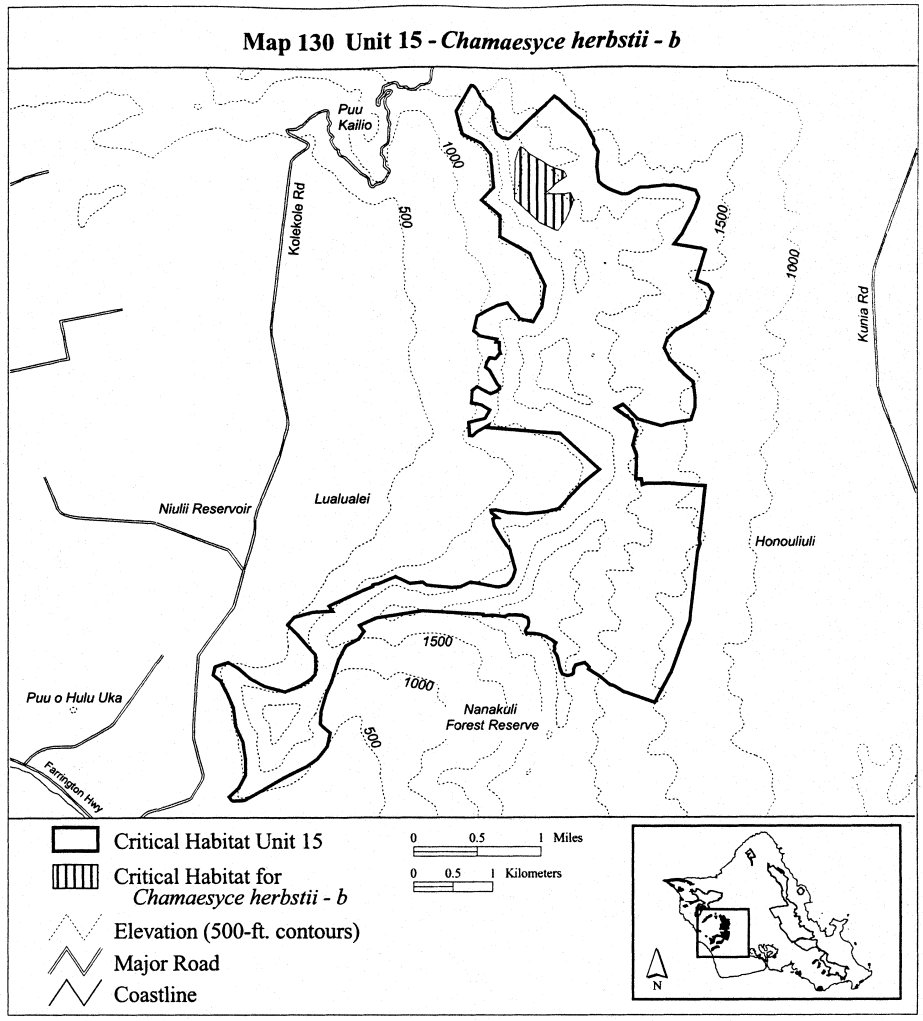
(ii) NOTE: Map 129 follows:



(130) Oahu 15—*Chamaesyce herbstii*—b (47 ha; 116 ac)

(i) Unit consists of the following 22 boundary points: Start at 592991, 2374069; 593075, 2373990; 593219, 2373906; 593336, 2373831; 593504, 2373766; 593540, 2373702; 593404, 2373617; 593362, 2373569; 593307, 2373526; 593259, 2373490; 593512, 2373484; 593591, 2373502; 593625, 2373411; 593593, 2373313; 593523, 2373150; 593434, 2373024; 593412, 2373027; 593193, 2373124; 592880, 2373418; 592886, 2373893; 592921, 2374014; 592953, 2374078; return to starting point.

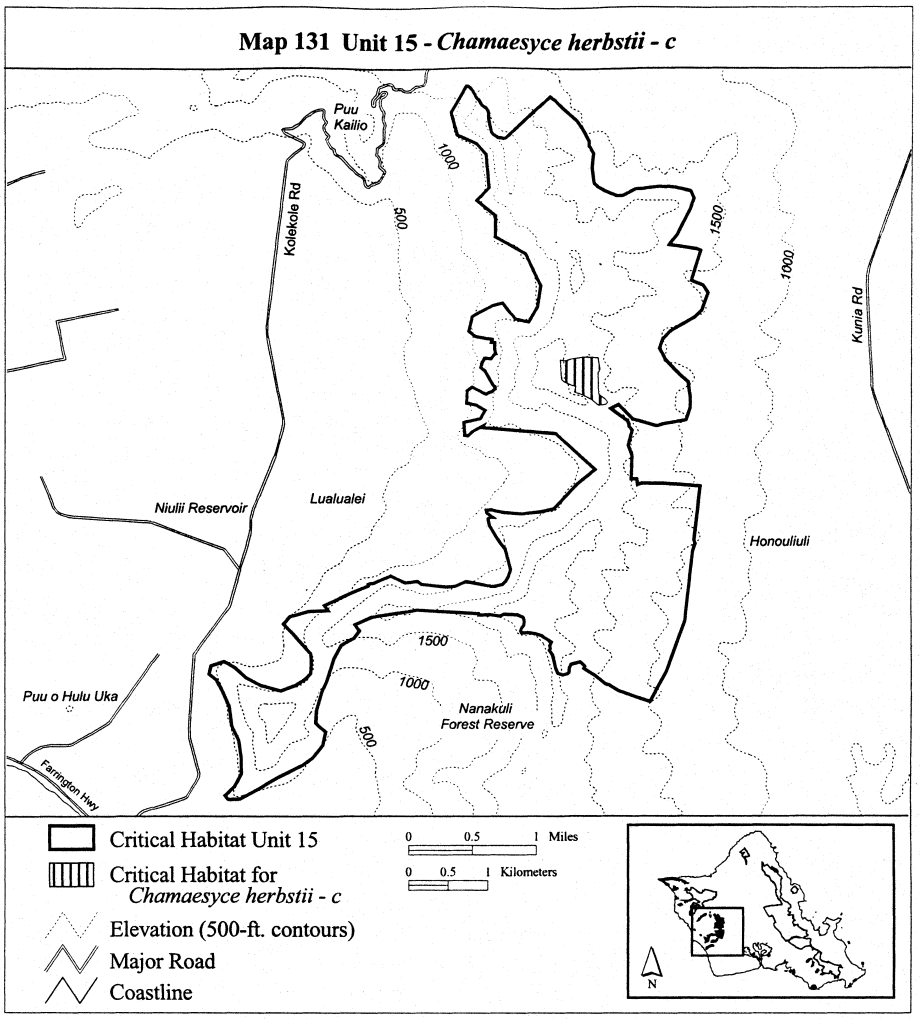
(ii) NOTE: Map 130 follows:



(131) Oahu 15—*Chamaesyce herbstii*—c (21 ha; 53 ac)

(i) Unit consists of the following 26 boundary points: Start at 593994, 2371231; 593987, 2371233; 593999, 2370955; 594083, 2370881; 594111, 2370848; 594083, 2370820; 593999, 2370815; 593910, 2370881; 593840, 2370923; 593770, 2370955; 593691, 2370979; 593709, 2371043; 593708, 2371048; 593714, 2371049; 593709, 2371049; 593672, 2371063; 593579, 2371100; 593532, 2371133; 593523, 2371165; 593512, 2371386; 593581, 2371372; 593644, 2371395; 593807, 2371422; 593989, 2371417; 593999, 2371357; 594013, 2371263; return to starting point.

(ii) NOTE: Map 131 follows:

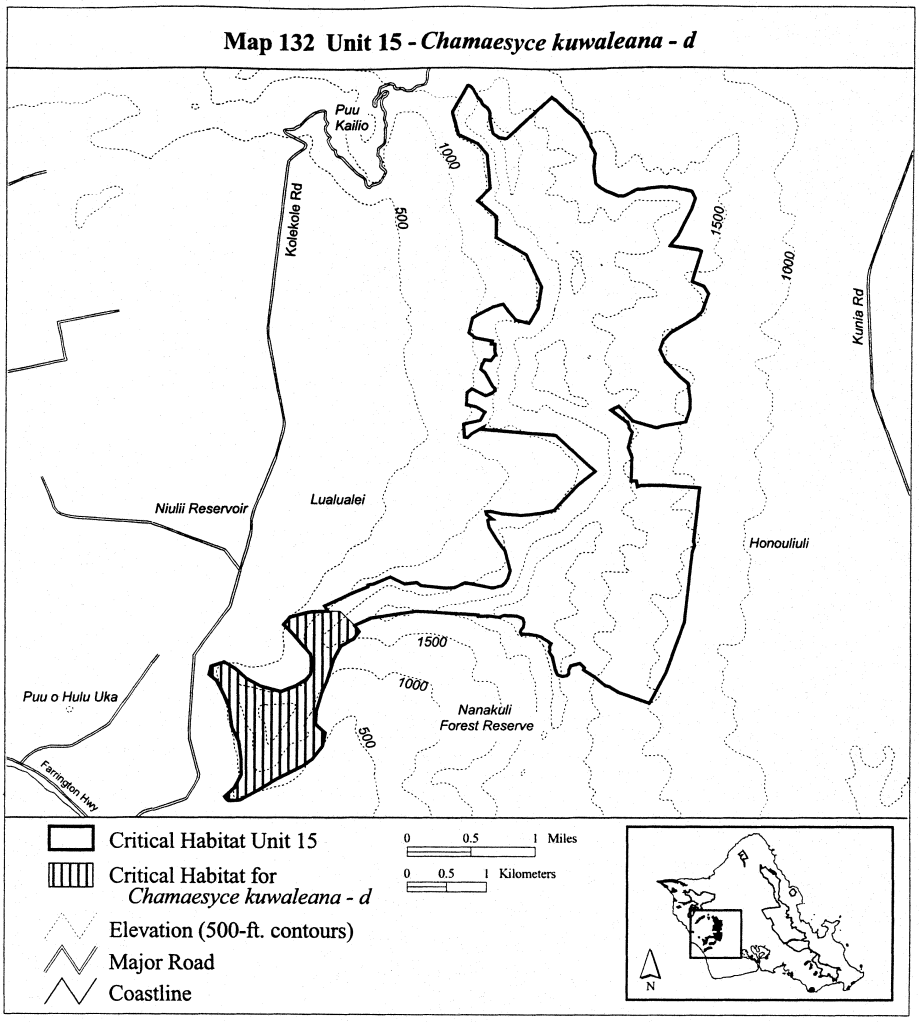


(132) Oahu 15—*Chamaesyce kuwaleana*—d (184 ha; 454 ac)

(i) Unit consists of the following 59 boundary points: Start at 590890, 2367845; 590753, 2367768; 590663, 2367594; 590573, 2367305; 590515, 2367177; 590444, 2366939; 590438, 2366792; 590436, 2366785; 590436, 2366784; 590437, 2366784; 590457, 2366768; 590560, 2366676; 590528, 2366509; 590399, 2366348; 590265, 2366252; 589963, 2366098; 589738, 2365969; 589494, 2365828; 589348, 2365822; 589335, 2365828; 589301, 2365873; 589423, 2365982; 589506, 2366143; 589506, 2366167; 589507, 2366167; 589507, 2366168; 589506, 2366172; 589506, 2366342; 589474, 2366560; 589384, 2366753; 589352, 2366997; 589256, 2367209; 589192, 2367331; 589095, 2367408; 589121, 2367511; 589288, 2367569; 589429, 2367485; 589564, 2367363; 589751, 2367260; 590001, 2367190; 590181, 2367260; 590309, 2367344; 590374, 2367415; 590380, 2367530; 590374, 2367665; 590265, 2367781; 590155, 2367916; 590033, 2368038; 590117, 2368134; 590342, 2368198; 590605, 2368211; 590746, 2368211; 590900, 2368063; 590984, 2367954; 590913, 2367858; 590904,

2367853; 590903, 2367853; 590903, 2367854; 590902, 2367853; return to starting point.

(ii) NOTE: Map 132 follows:

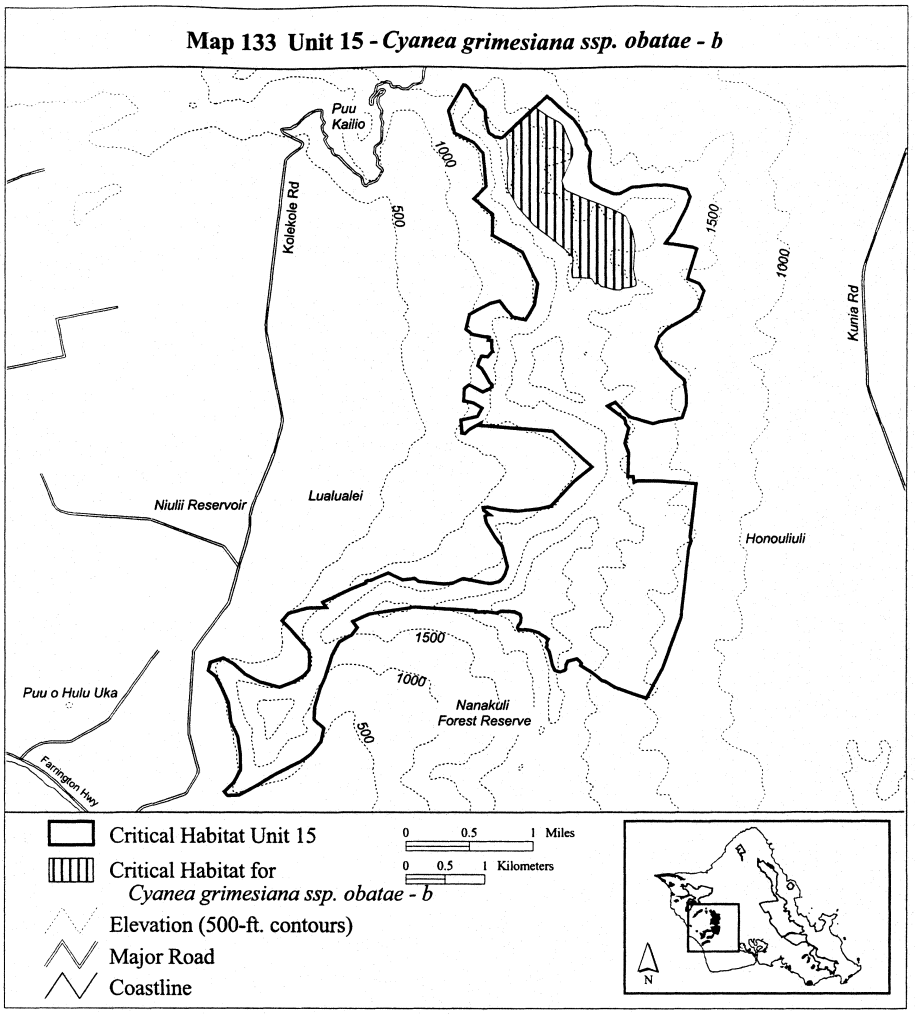


(133) Oahu 15—*Cyanea grimesiana* ssp. *obatae*—b (184 ha; 455 ac)

(i) Unit consists of the following 45 boundary points: Start at 593238, 2374575; 593285, 2374543; 593404, 2374463; 593535, 2374388; 593586, 2374348; 593713, 2374039; 593713, 2373948; 593602, 2373707; 593571, 2373639; 593598, 2373556; 593626, 2373520; 593856, 2373421; 594066, 2373334; 594316, 2373223; 594375, 2373183; 594462, 2372997; 594490, 2372815; 594474, 2372517; 594502, 2372346; 594506, 2372307; 594482, 2372295; 594415, 2372283; 594351, 2372276; 594304, 2372248; 594232, 2372248; 594157, 2372272; 594070, 2372292; 594025, 2372329; 593991, 2372327; 593947, 2372395; 593820, 2372407; 593705, 2372407; 593693, 2372498; 593713, 2372569; 593713, 2372668; 593626,

2372759; 593487, 2372870; 593222, 2373076; 593008, 2373318; 592885, 2373532; 592881, 2373762; 592897, 2373921; 592881, 2374028; 592881, 2374158; 592851, 2374213; return to starting point.

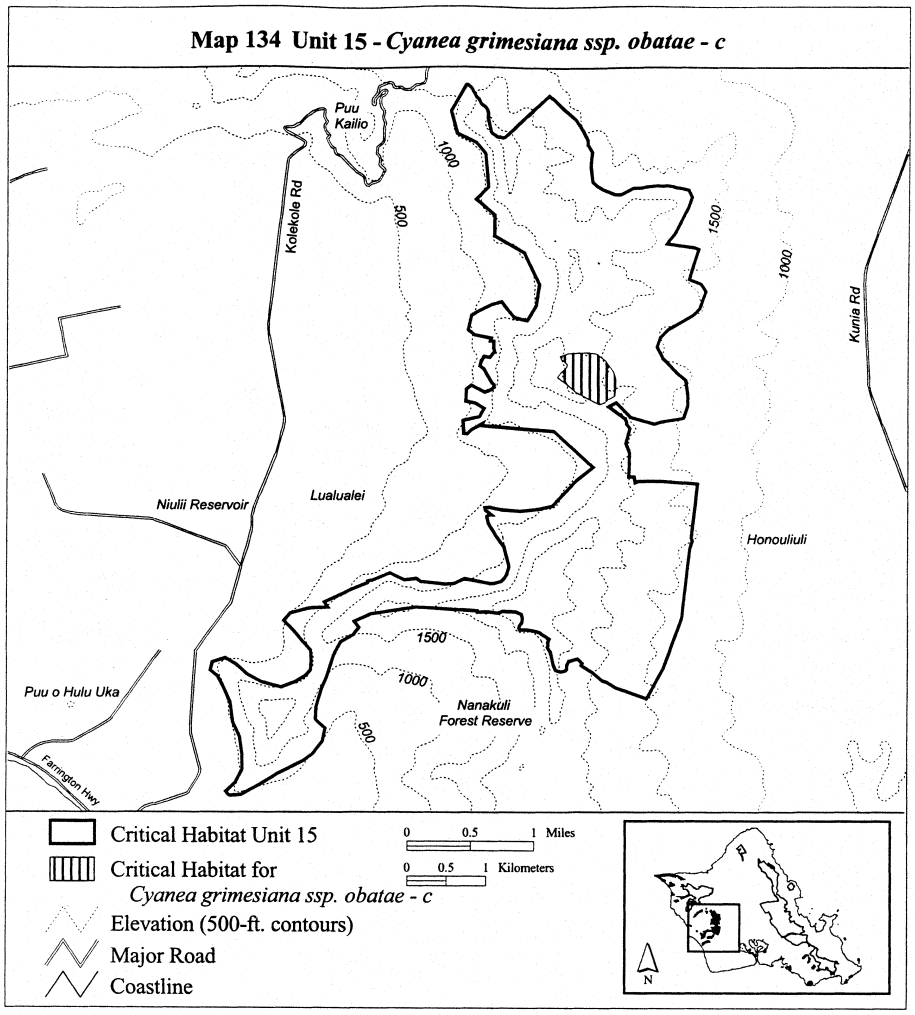
(ii) NOTE: Map 133 follows:



(134) Oahu 15—*Cyanea grimesiana* ssp. *obatae*—c (34 ha; 84 ac)

(i) Unit consists of the following 22 boundary points: Start at 593638, 2371452; 593884, 2371463; 593999, 2371443; 594106, 2371360; 594205, 2371221; 594240, 2371126; 594236, 2371019; 594224, 2370900; 594141, 2370860; 594094, 2370817; 594034, 2370793; 593884, 2370868; 593725, 2370959; 593618, 2371046; 593499, 2371146; 593539, 2371197; 593575, 2371233; 593614, 2371276; 593618, 2371308; 593586, 2371345; 593551, 2371372; 593531, 2371412; return to starting point.

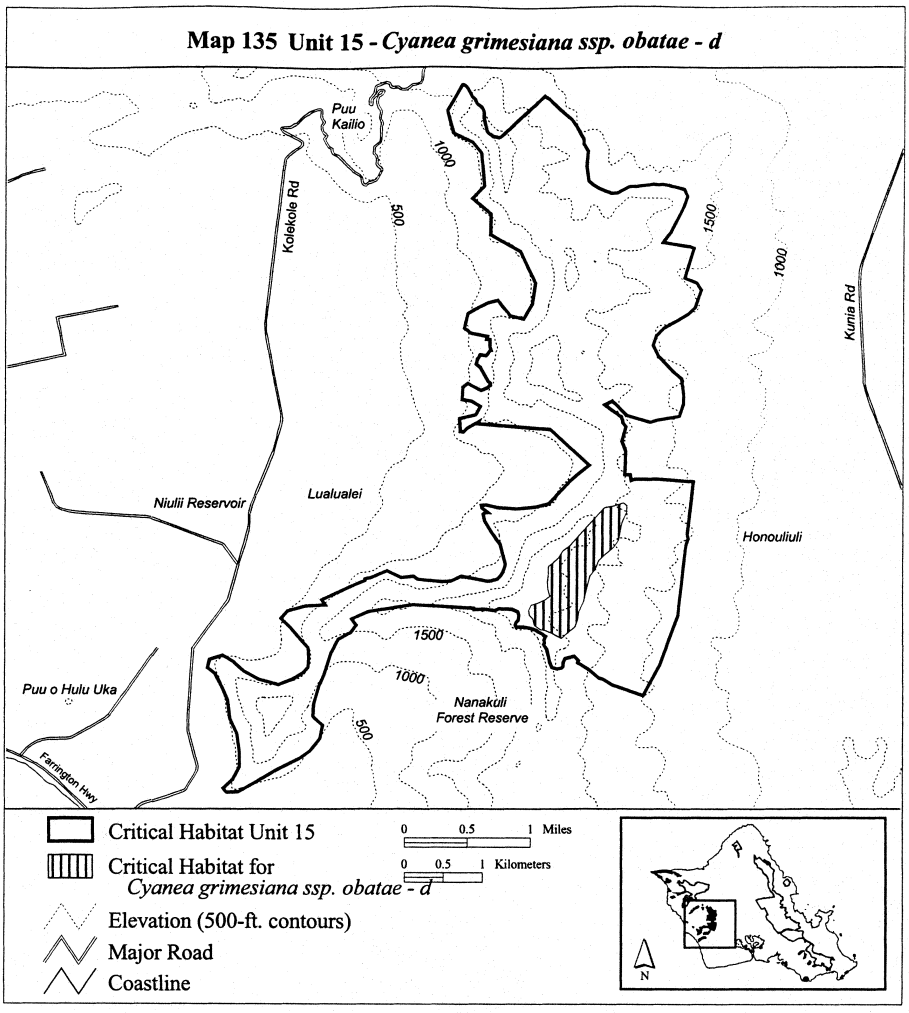
(ii) NOTE: Map 134 follows:



(135) Oahu 15—*Cyanea grimesiana* ssp. *obatae*—d (83 ha; 205 ac)

(i) Unit consists of the following 42 boundary points: Start at 594150, 2369456; 594262, 2369473; 594391, 2369508; 594429, 2369478; 594425, 2369388; 594395, 2369323; 594373, 2369259; 594348, 2369135; 594322, 2369023; 594270, 2368950; 594168, 2368860; 594073, 2368766; 594043, 2368672; 593962, 2368577; 593923, 2368423; 593889, 2368252; 593825, 2368114; 593812, 2368016; 593773, 2367926; 593662, 2367836; 593610, 2367784; 593482, 2367853; 593396, 2367887; 593345, 2367892; 593259, 2367952; 593255, 2367986; 593242, 2368037; 593195, 2368084; 593190, 2368136; 593229, 2368209; 593323, 2368243; 593405, 2368277; 593456, 2368316; 593430, 2368414; 593422, 2368509; 593430, 2368547; 593435, 2368629; 593439, 2368697; 593486, 2368736; 593572, 2368809; 593619, 2368899; 593709, 2368967; return to starting point.

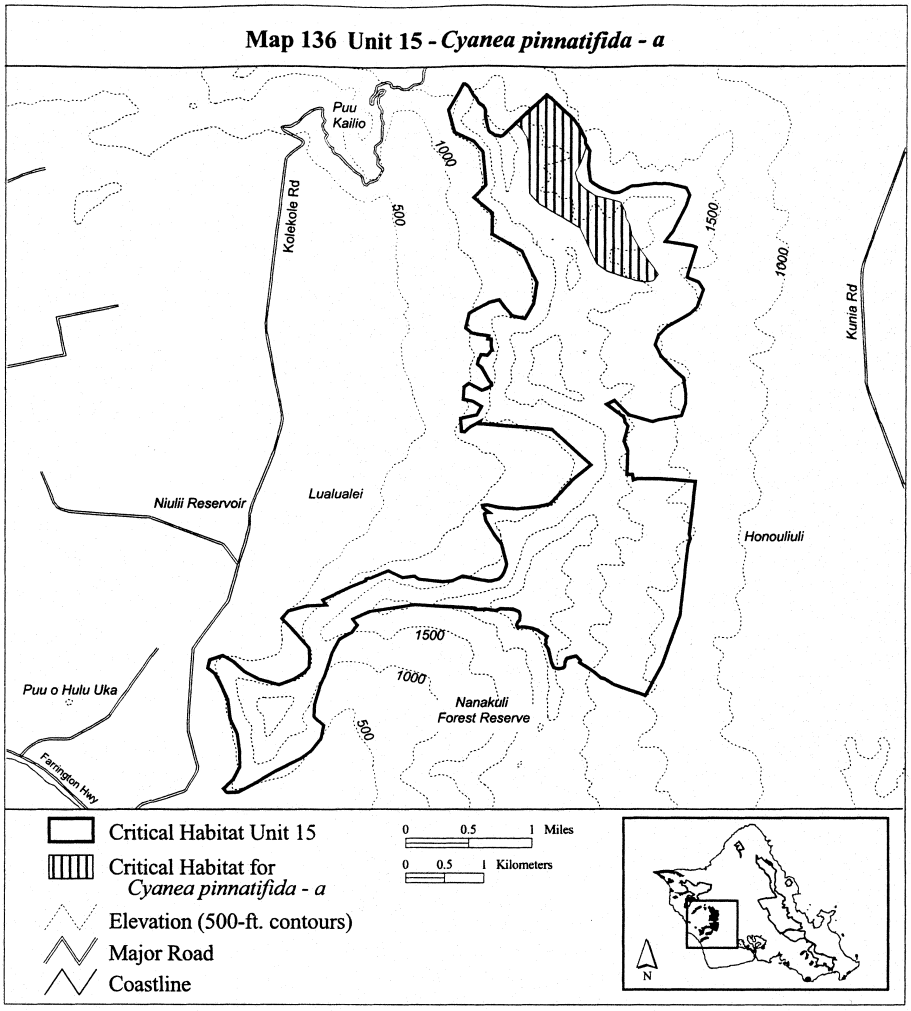
(ii) NOTE: Map 135 follows:



(136) Oahu 15—*Cyanea pinnatifida*—a (154 ha; 380 ac)

(i) Unit consists of the following 41 boundary points: Start at 593385, 2374713; 593425, 2374682; 593429, 2374682; 593577, 2374542; 593721, 2374415; 593793, 2374314; 593874, 2374157; 593882, 2374030; 593819, 2373852; 593747, 2373721; 593776, 2373624; 593865, 2373531; 594009, 2373433; 594132, 2373404; 594318, 2373349; 594377, 2373226; 594381, 2373150; 594428, 2373061; 594462, 2372926; 594546, 2372768; 594648, 2372624; 594745, 2372497; 594796, 2372421; 594733, 2372345; 594678, 2372332; 594585, 2372332; 594504, 2372349; 594339, 2372401; 594149, 2372469; 594018, 2372570; 593903, 2372820; 593810, 2373027; 593599, 2373154; 593290, 2373336; 593167, 2373467; 593163, 2373679; 593163, 2373967; 593133, 2374170; 593078, 2374259; 592993, 2374346; 593303, 2374636; return to starting point.

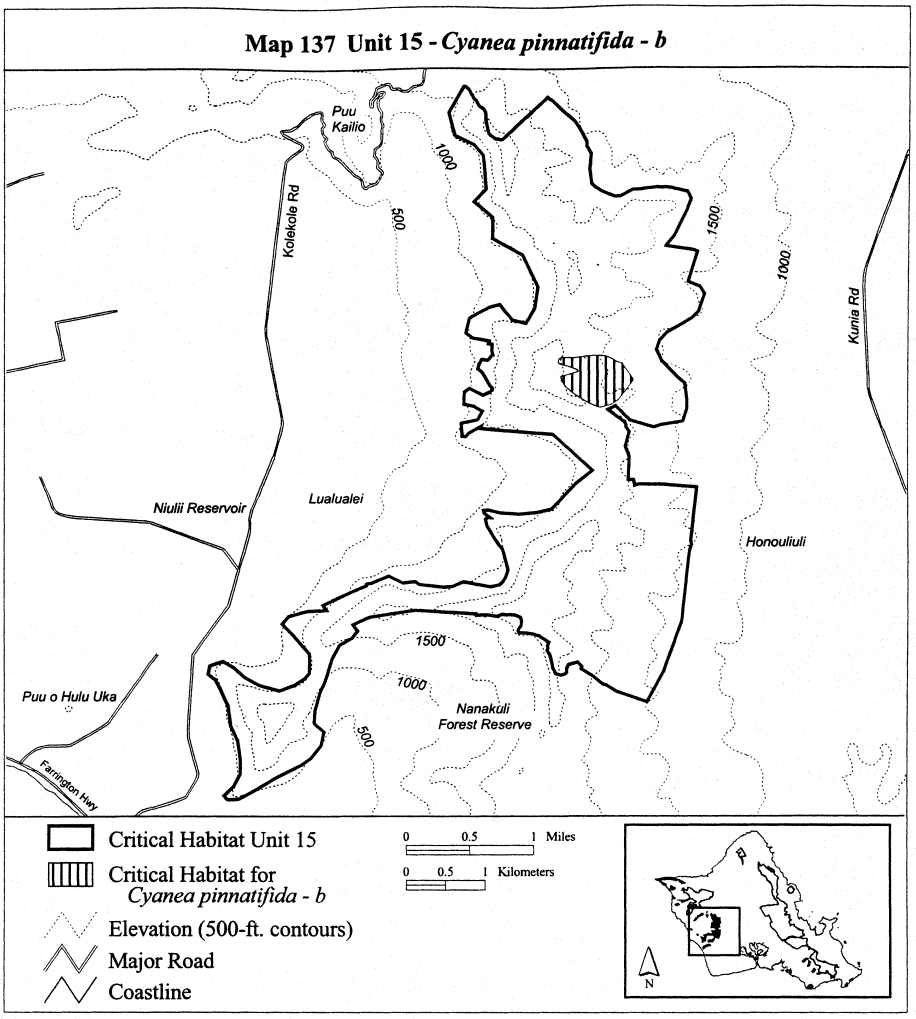
(ii) NOTE: Map 136 follows:



(137) Oahu 15—*Cyanea pinnatifida*—b (42 ha; 104 ac)

(i) Unit consists of the following 34 boundary points: Start at 594269, 2371382; 594330, 2371362; 594330, 2371348; 594458, 2371171; 594457, 2371170; 594458, 2371170; 594470, 2371145; 594394, 2371042; 594317, 2370945; 594269, 2370886; 594177, 2370831; 594049, 2370792; 593891, 2370864; 593690, 2370992; 593604, 2371076; 593568, 2371123; 593570, 2371123; 593565, 2371124; 593554, 2371189; 593769, 2371254; 593758, 2371277; 593646, 2371322; 593557, 2371344; 593520, 2371366; 593526, 2371411; 593573, 2371436; 593646, 2371433; 593707, 2371427; 593738, 2371430; 593874, 2371449; 593971, 2371460; 594063, 2371457; 594127, 2371451; 594205, 2371418; return to starting point.

(ii) NOTE: Map 137 follows:

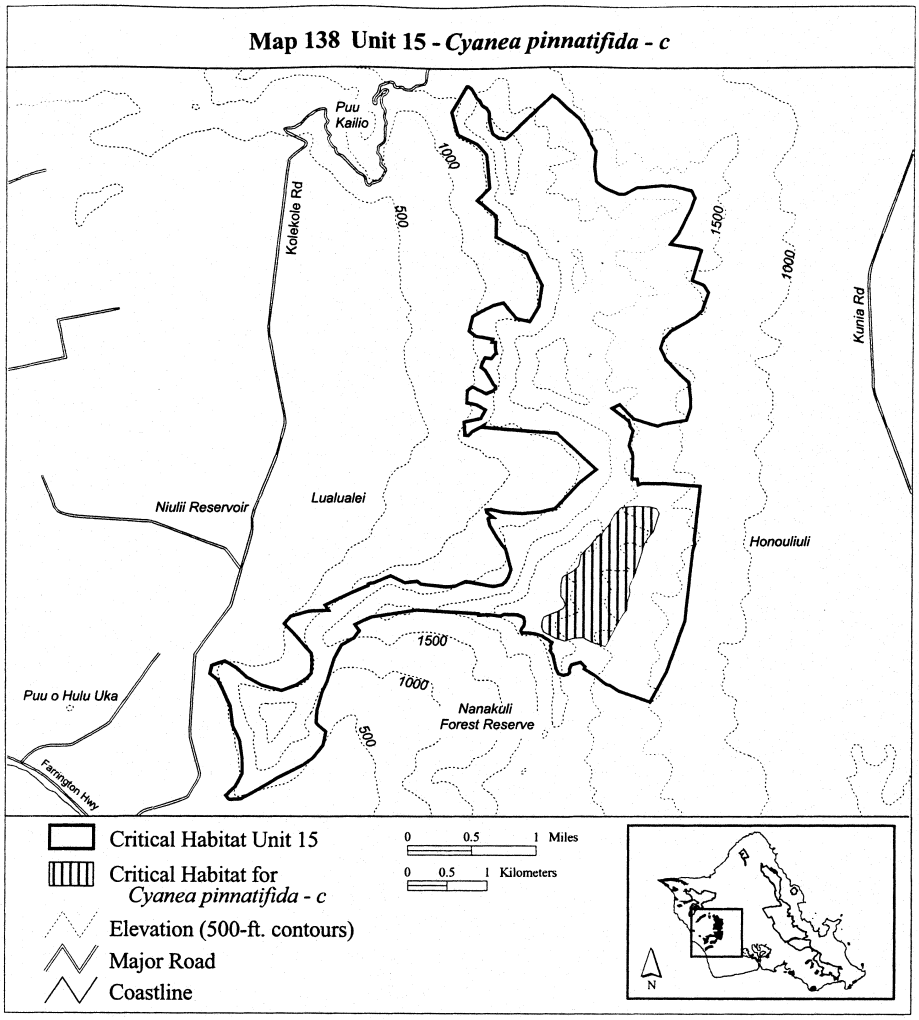


(138) Oahu 15—*Cyanea pinnatifida*—c (129 ha; 318 ac)

(i) Unit consists of the following 55 boundary points: Start at 594158, 2369378; 594159, 2369378; 594186, 2369419; 594266, 2369517; 594347, 2369525; 594456, 2369531; 594639, 2369522; 594717, 2369497; 594753, 2369442; 594717, 2369347; 594673, 2369208; 594620, 2369133; 594564, 2369041; 594475, 2368746; 594447, 2368662; 594375, 2368512; 594383, 2368423; 594353, 2368326; 594344, 2368212; 594292, 2368155; 594077, 2367755; 594058, 2367761; 593899, 2367813; 593799, 2367869; 593660, 2367861; 593573, 2367825; 593462, 2367861; 593373, 2367903; 593295, 2367942; 593270, 2368003; 593276, 2368072; 593306, 2368125; 593379, 2368164; 593470, 2368195; 593548, 2368242; 593568, 2368287; 593554, 2368348; 593515, 2368390; 593512, 2368470; 593512, 2368545; 593532, 2368621; 593562, 2368651; 593657, 2368704; 593738, 2368765; 593749, 2368824; 593760, 2368907; 593829, 2368982; 593880, 2369027; 593927, 2369091; 593996, 2369166; 594033, 2369183; 594077, 2369250; 594124, 2369303;

594155, 2369372; 594156, 2369374; return to starting point.

(ii) NOTE: Map 138 follows:

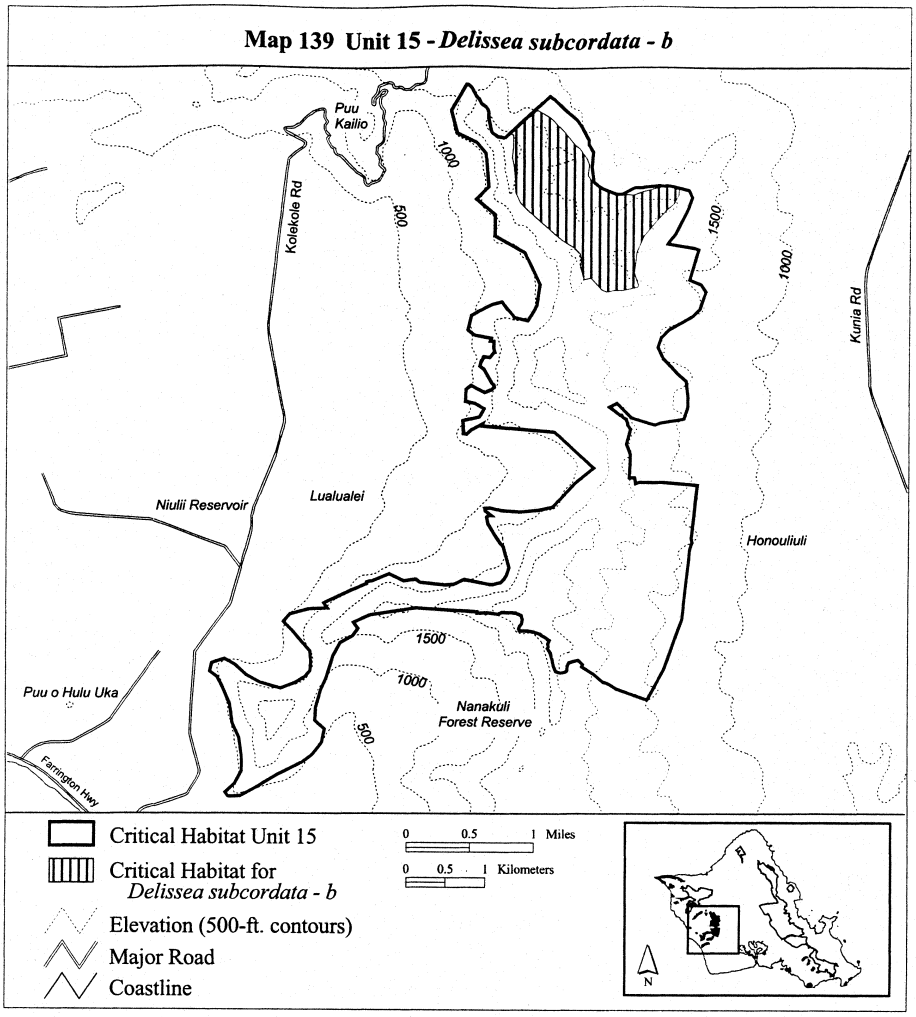


(139) Oahu 15—*Delissea subcordata*—(220 ha; 545ac)

(i) Unit consists of the following 58 boundary points: Start at 593234, 2374539; 593402, 2374434; 593503, 2374332; 593561, 2374272; 593700, 2374102; 593689, 2374102; 593761, 2374051; 593845, 2373930; 593879, 2373842; 593862, 2373713; 593923, 2373622; 594069, 2373534; 594211, 2373473; 594448, 2373456; 594553, 2373500; 594705, 2373537; 594864, 2373580; 594962, 2373566; 595017, 2373539; 595020, 2373455; 594959, 2373353; 594868, 2373272; 594732, 2373123; 594576, 2372940; 594485, 2372730; 594455, 2372473; 594485, 2372375; 594505, 2372317; 594495, 2372293; 594377, 2372270; 594309, 2372250; 594241, 2372247; 594191, 2372247; 594109, 2372230; 594042, 2372261; 593910,

2372410; 593818, 2372389; 593801, 2372454; 593767, 2372552; 593781, 2372636; 593767, 2372718; 593693, 2372799; 593537, 2372890; 593395, 2373026; 593266, 2373131; 593114, 2373269; 593016, 2373364; 592955, 2373486; 592945, 2373550; 592945, 2373635; 592931, 2373831; 592911, 2373930; 592924, 2374068; 592924, 2374143; 592924, 2374221; 592878, 2374238; 593146, 2374489; 593165, 2374499; return to starting point.

(ii) NOTE: Map 139 follows:

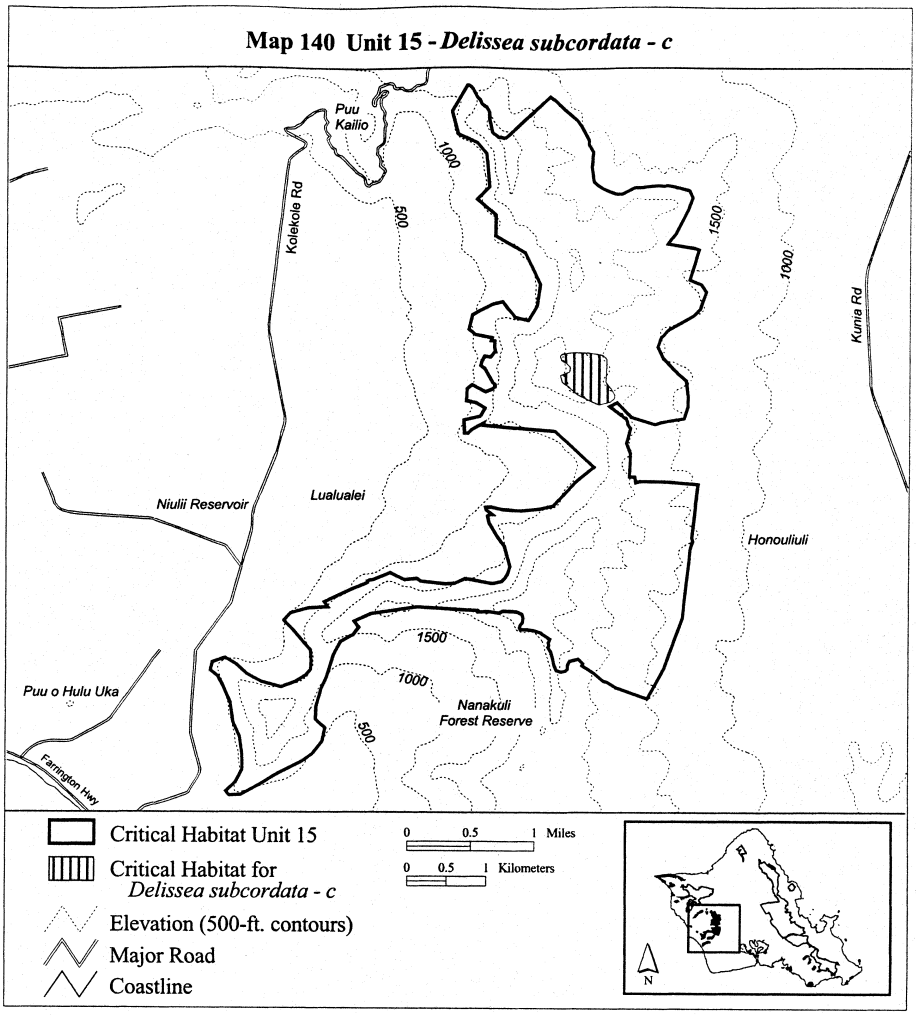


(140) Oahu 15—*Delissea subcordata*—c (32 ha; 78ac)

(i) Unit consists of the following 23 boundary points: Start at 593547, 2371434; 593683, 2371458; 593893, 2371450; 594059, 2371423; 594113, 2371379; 594113, 2371278; 594106, 2371200; 594096, 2371081; 594160, 2371007; 594214, 2370916; 594214, 2370868; 594153, 2370824; 594014, 2370787; 593913, 2370834; 593737, 2370919; 593625, 2371017; 593547, 2371078; 593517, 2371163;

593642, 2371210; 593649, 2371271; 593605, 2371316; 593534, 2371363; 593517, 2371414; return to starting point.

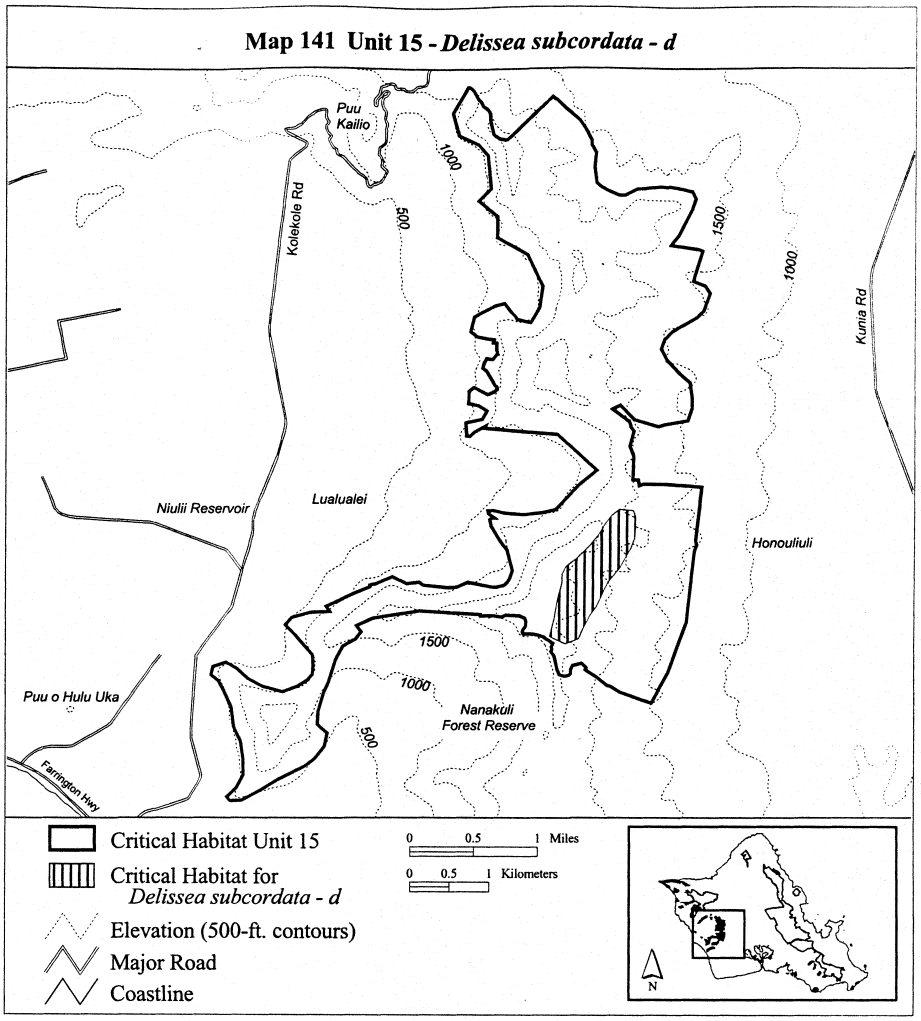
(ii) NOTE: Map 140 follows:



(141) Oahu 15—*Delissea subcordata*—d (81 ha; 200 ac)

(i) Unit consists of the following 27 boundary points: Start at 594143, 2369424; 594236, 2369495; 594412, 2369484; 594439, 2369409; 594442, 2369289; 594427, 2369132; 594371, 2368986; 594315, 2368885; 594248, 2368768; 594098, 2368581; 594019, 2368427; 593952, 2368266; 593873, 2368165; 593775, 2367978; 593730, 2367865; 593562, 2367805; 593360, 2367899; 593386, 2367989; 593427, 2368146; 593464, 2368360; 593513, 2368559; 593521, 2368679; 593569, 2368780; 593704, 2368881; 593880, 2369061; 593978, 2369173; 594045, 2369297; return to starting point.

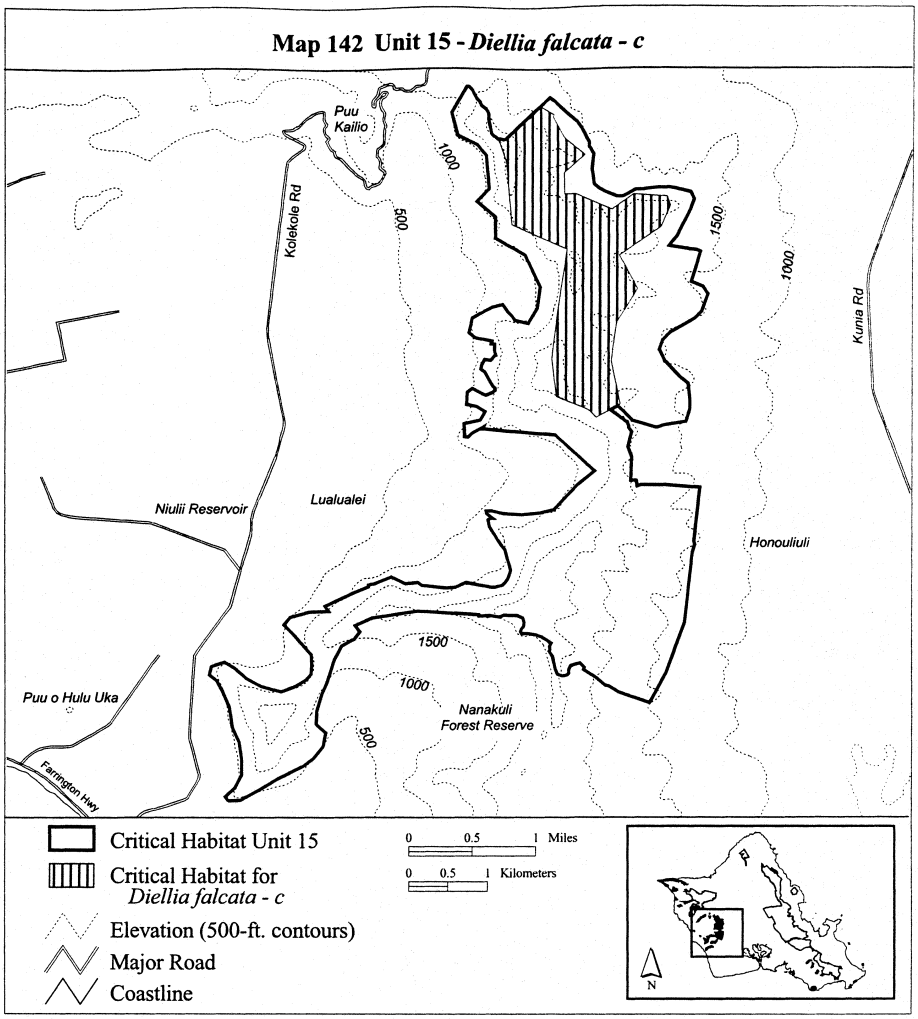
(ii) NOTE: Map 141 follows:



(142) Oahu 15—*Diellia falcata*—c (342 ha; 844 ac)

(i) Unit consists of the following 32 boundary points: Start at 593263, 2374599; 593436, 2374499; 593422, 2374474; 593572, 2374207; 593822, 2373998; 593561, 2373771; 593572, 2373507; 593715, 2373507; 594159, 2373305; 594437, 2373496; 594855, 2373462; 594892, 2373348; 594778, 2373081; 594254, 2372726; 594485, 2372300; 594221, 2371865; 594155, 2371391; 594272, 2370836; 593971, 2370676; 593868, 2370775; 593469, 2370939; 593411, 2371425; 593483, 2371995; 593604, 2372808; 592905, 2373115; 592834, 2373899; 592727, 2374190; 592765, 2374190; 592805, 2374172; 592806, 2374171; 592807, 2374171; 592807, 2374172; return to starting point.

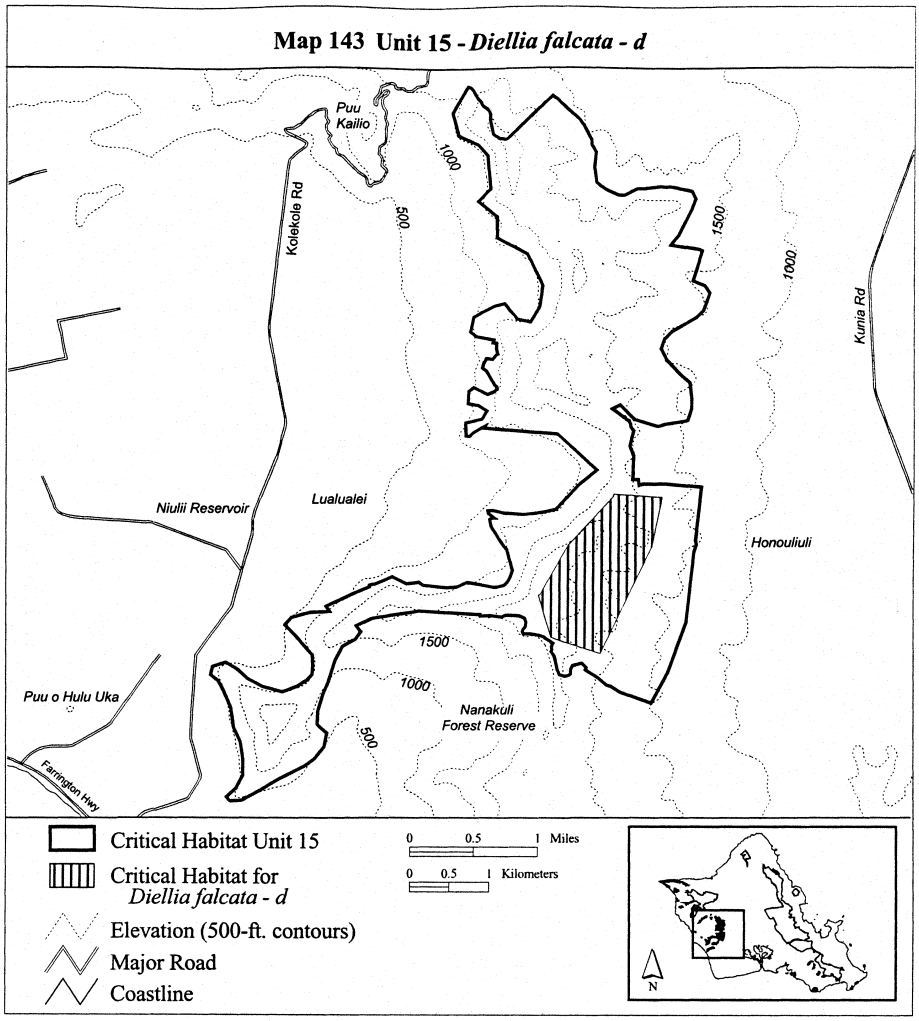
(ii) NOTE: Map 142 follows:



(143) Oahu 15—*Diellia falcata*—d (177 ha; 438 ac)

(i) Unit consists of the following 11 boundary points: Start at 594778, 2369648; 594642, 2369018; 594003, 2367683; 593587, 2367808; 593376, 2367886; 593222, 2368415; 593240, 2368417; 593589, 2369042; 594161, 2369659; 594168, 2369688; 594734, 2369651; return to starting point.

(ii) NOTE: Map 143 follows:

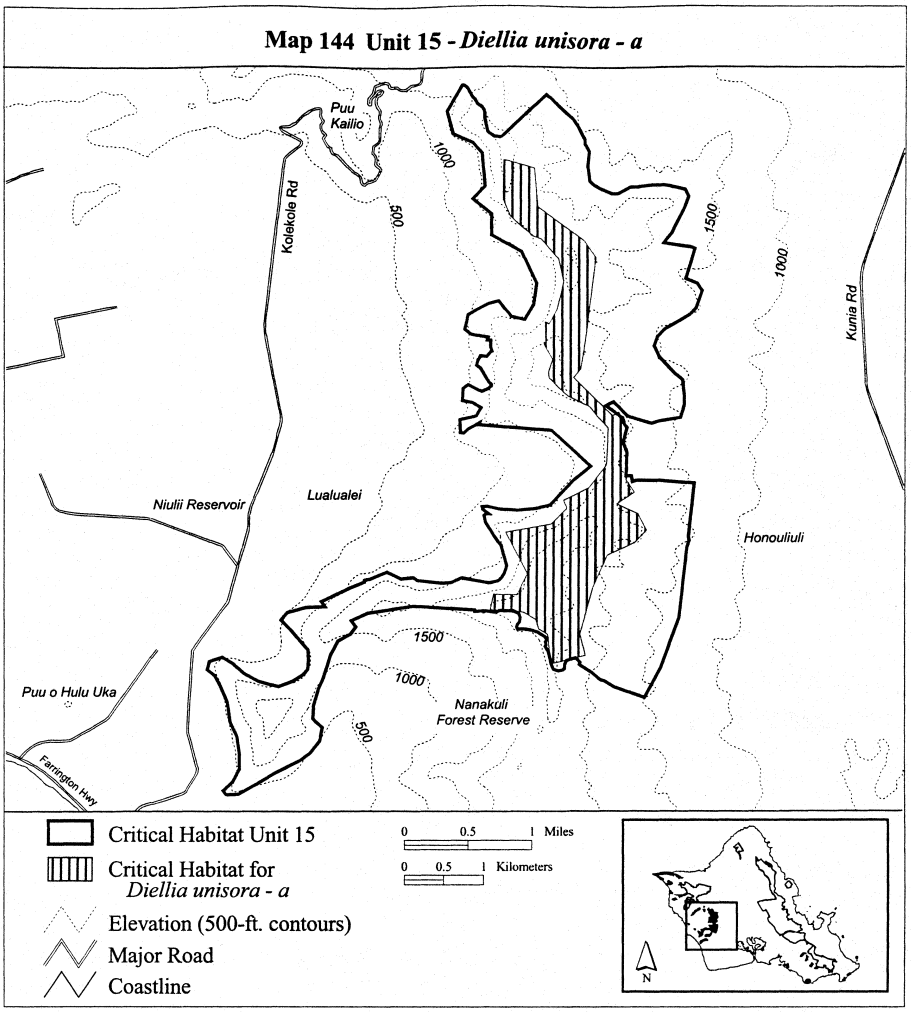


(144) Oahu 15—*Diellia unisora*—a (362 ha; 895 ac)

(i) Unit consists of the following 68 boundary points: Start at 592846, 2373892; 593232, 2373784; 593278, 2373295; 593871, 2372872; 594017, 2372653; 593879, 2371581; 593822, 2371230; 593736, 2371122; 594227, 2370646; 594300, 2370666; 594412, 2370491; 594362, 2370301; 594412, 2370171; 594402, 2369825; 594512, 2369665; 594287, 2369515; 594542, 2369395; 594552, 2369394; 594662, 2369179; 594517, 2369024; 594167, 2368864; 593976, 2368428; 593821, 2367853; 593827, 2367852; 593886, 2367592; 593462, 2367482; 593436, 2367597; 593426, 2367778; 593411, 2367858; 593300, 2367928; 593260, 2368053; 593105, 2368148; 592685, 2368173; 592723, 2368374; 592725, 2368368; 593025, 2368358; 593155, 2368629; 592880, 2369154; 593456, 2369254; 593651, 2369460; 593606, 2369554; 593611, 2369557; 593616, 2369563; 593761, 2369630; 593931, 2369720; 594152, 2370010; 594172, 2370481; 594041, 2370631; 593941, 2370756; 593671, 2370882; 593536, 2371002; 593421, 2371127; 593416, 2371197; 593466, 2371358; 593358, 2371548; 593381,

2371563; 593376, 2371839; 593421, 2371814; 593521, 2371984; 593611, 2372349; 593536, 2372645; 593325, 2372890; 593187, 2372944; 593188, 2372954; 593050, 2373067; 592928, 2373181; 592839, 2373384; 592839, 2373636; return to starting point.

(ii) NOTE: Map 144 follows:

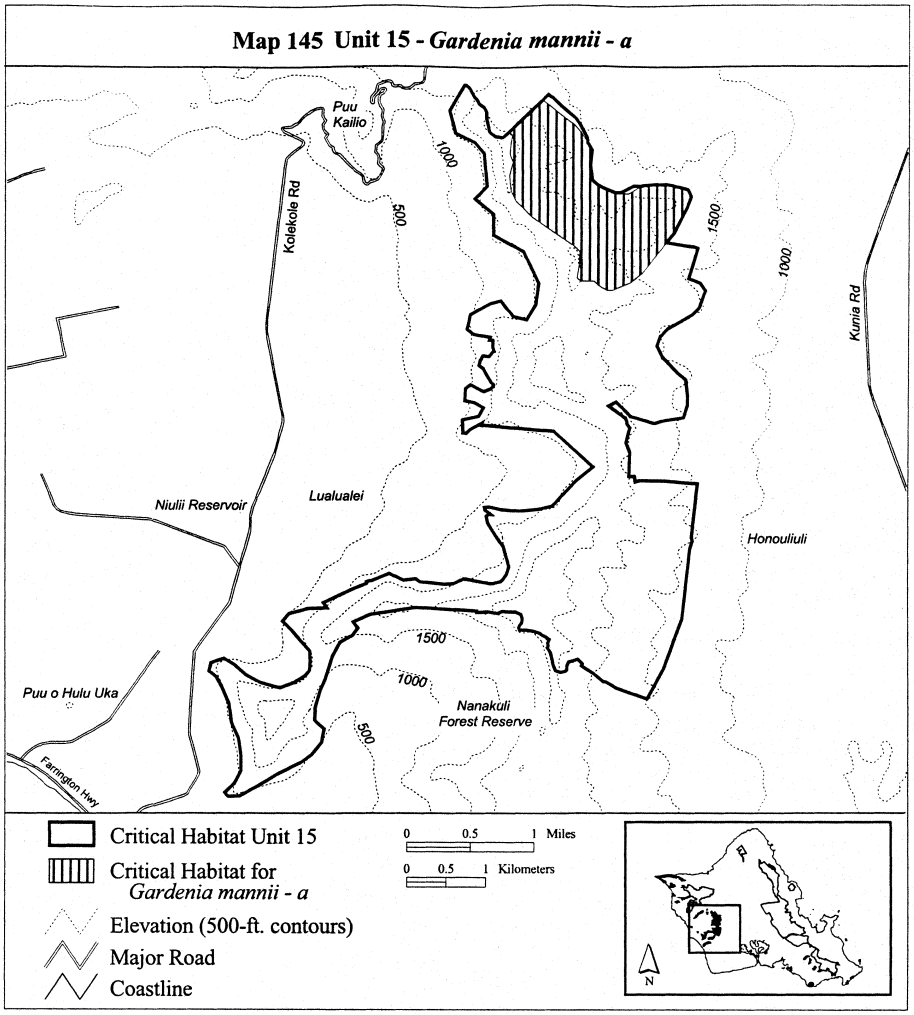


(145) Oahu 15—*Gardenia mannii*—a (266 ha; 658 ac)

(i) Unit consists of the following 44 boundary points: Start at 593315, 2374647; 593329, 2374638; 593423, 2374563; 593533, 2374468; 593718, 2374328; 593801, 2374230; 593892, 2374075; 593930, 2374003; 593911, 2373814; 593941, 2373625; 594017, 2373557; 594228, 2373470; 594387, 2373451; 594572, 2373561; 594761, 2373579; 595011, 2373549; 595143, 2373522; 595188, 2373431; 595147, 2373303; 594973, 2372963; 594894, 2372861; 594735, 2372653; 594580, 2372460; 594421, 2372331; 594190, 2372238; 594130, 2372238; 594020, 2372298; 593967, 2372359;

593797, 2372359; 593748, 2372397; 593771, 2372589; 593778, 2372733; 593695, 2372809; 593457, 2372975; 593177, 2373179; 592981, 2373376; 592916, 2373508; 592894, 2373697; 592939, 2373863; 592901, 2373973; 592916, 2374109; 592935, 2374211; 592897, 2374256; 593303, 2374636; return to starting point.

(ii) NOTE: Map 145 follows:

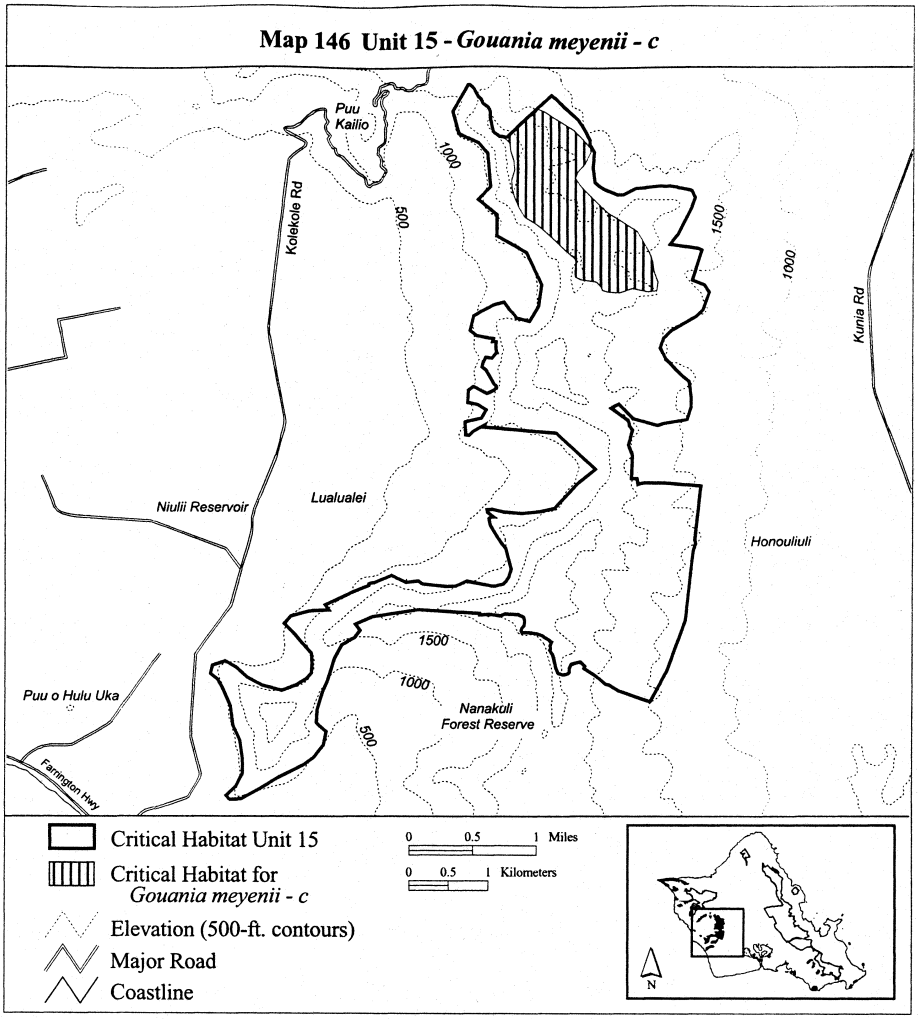


(146) Oahu 15—*Gouania meyenii*—c (209 ha; 515 ac)

(i) Unit consists of the following 60 boundary points: Start at 593204, 2374544; 593306, 2374506; 593425, 2374431; 593681, 2374277; 593800, 2374154; 593879, 2374063; 593891, 2374004; 593816, 2373866; 593721, 2373755; 593693, 2373680; 593768, 2373569; 593867, 2373467; 593997, 2373340; 594112, 2373242; 594258, 2373147; 594475, 2373005; 594618, 2372747; 594665, 2372620; 594681, 2372494; 594728, 2372371; 594712, 2372257; 594606, 2372241; 594499, 2372269; 594416, 2372285; 594329, 2372254; 594250,

2372230; 594155, 2372234; 594096, 2372246; 594037, 2372266; 594013, 2372309; 593966, 2372372; 593875, 2372380; 593768, 2372396; 593689, 2372432; 593685, 2372495; 593689, 2372558; 593697, 2372617; 593685, 2372661; 593579, 2372760; 593425, 2372898; 593290, 2373016; 593199, 2373091; 593045, 2373182; 592958, 2373317; 592907, 2373447; 592887, 2373526; 592879, 2373648; 592915, 2373767; 592903, 2373897; 592868, 2374004; 592852, 2374107; 592808, 2374150; 592754, 2374182; 592760, 2374190; 592765, 2374190; 592805, 2374172; 592805, 2374171; 592806, 2374171; 592807, 2374171; 592807, 2374172; return to starting point.

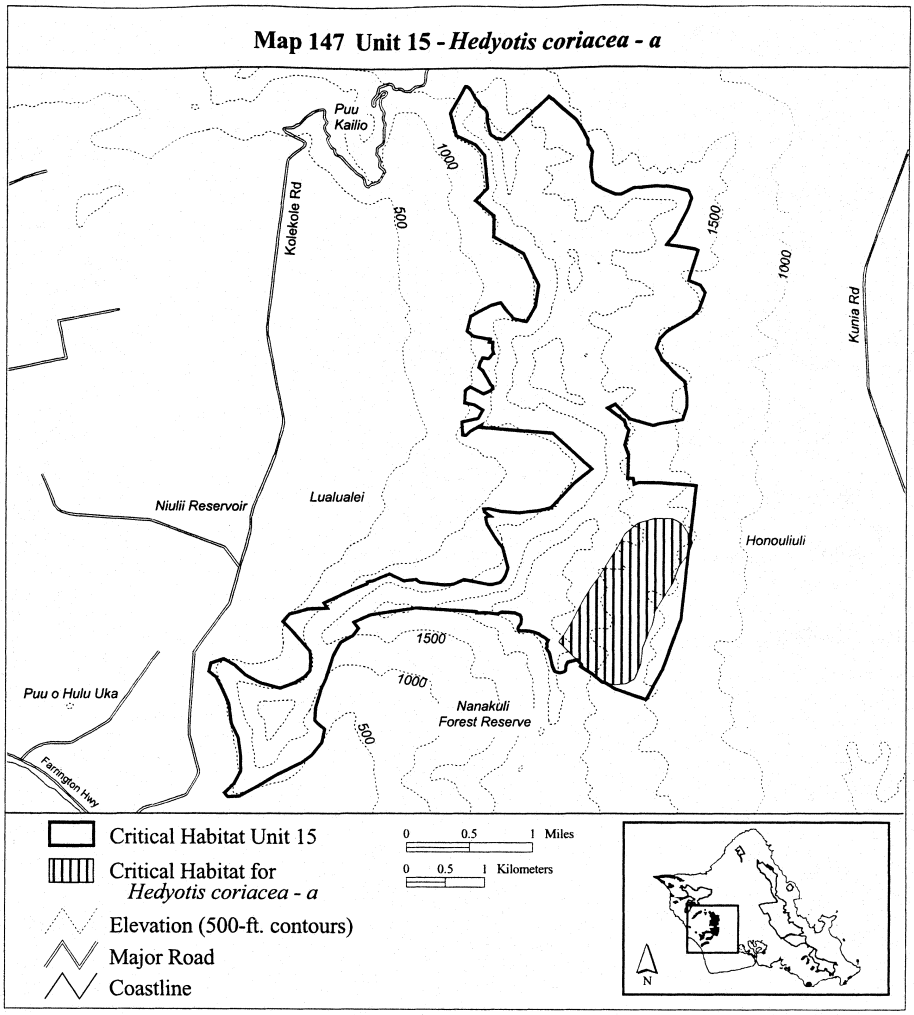
(ii) NOTE: Map 146 follows:



(147) Oahu 15—*Hedyotis coriacea*—a (185 ha; 458 ac)

(i) Unit consists of the following 31 boundary points: Start at 593537, 2367790; 593626, 2367910; 593688, 2368026; 593778, 2368187; 593849, 2368320; 593942, 2368481; 594054, 2368619; 594201, 2368864; 594268, 2368976; 594375, 2369168; 594535, 2369301; 594745, 2369364; 594977, 2369364; 595097, 2369292; 595164, 2369185; 595209, 2369052; 595151, 2368882; 595053, 2368740; 594977, 2368526; 594923, 2368450; 594807, 2368263; 594749, 2368173; 594723, 2368008; 594669, 2367888; 594602, 2367710; 594576, 2367505; 594495, 2367322; 594397, 2367264; 594237, 2367242; 594085, 2367282; 593907, 2367424; return to starting point.

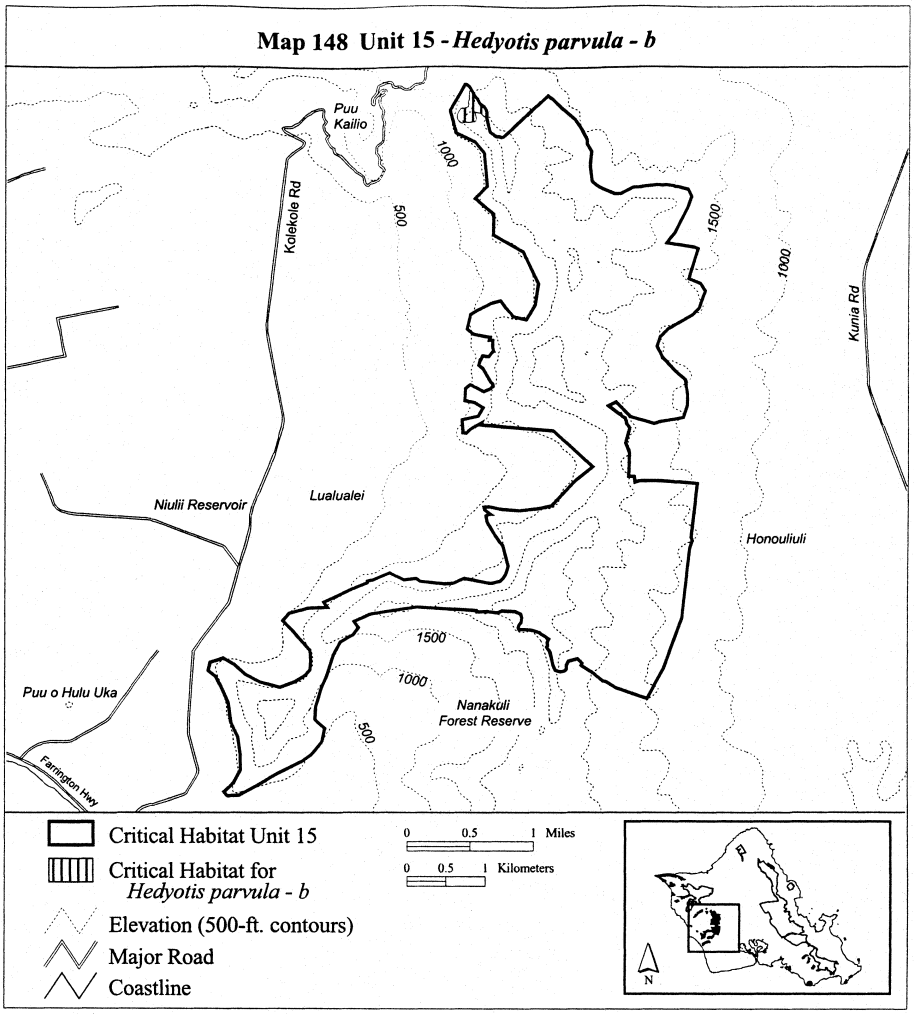
(ii) NOTE: Map 147 follows:



(148) Oahu 15—*Hedyotis parvula*—b (8 ha; 19 ac)

(i) Unit consists of the following 35 boundary points: Start at 592602, 2374407; 592530, 2374478; 592455, 2374495; 592457, 2374454; 592473, 2374402; 592457, 2374373; 592418, 2374363; 592384, 2374357; 592352, 2374359; 592313, 2374359; 592285, 2374349; 592248, 2374369; 592224, 2374406; 592224, 2374450; 592246, 2374499; 592277, 2374535; 592331, 2374545; 592370, 2374565; 592372, 2374594; 592362, 2374618; 592378, 2374653; 592378, 2374681; 592374, 2374701; 592374, 2374733; 592380, 2374756; 592404, 2374781; 592454, 2374691; 592484, 2374661; 592514, 2374601; 592514, 2374600; 592574, 2374561; 592594, 2374531; 592604, 2374492; 592604, 2374422; 592606, 2374409; return to starting point.

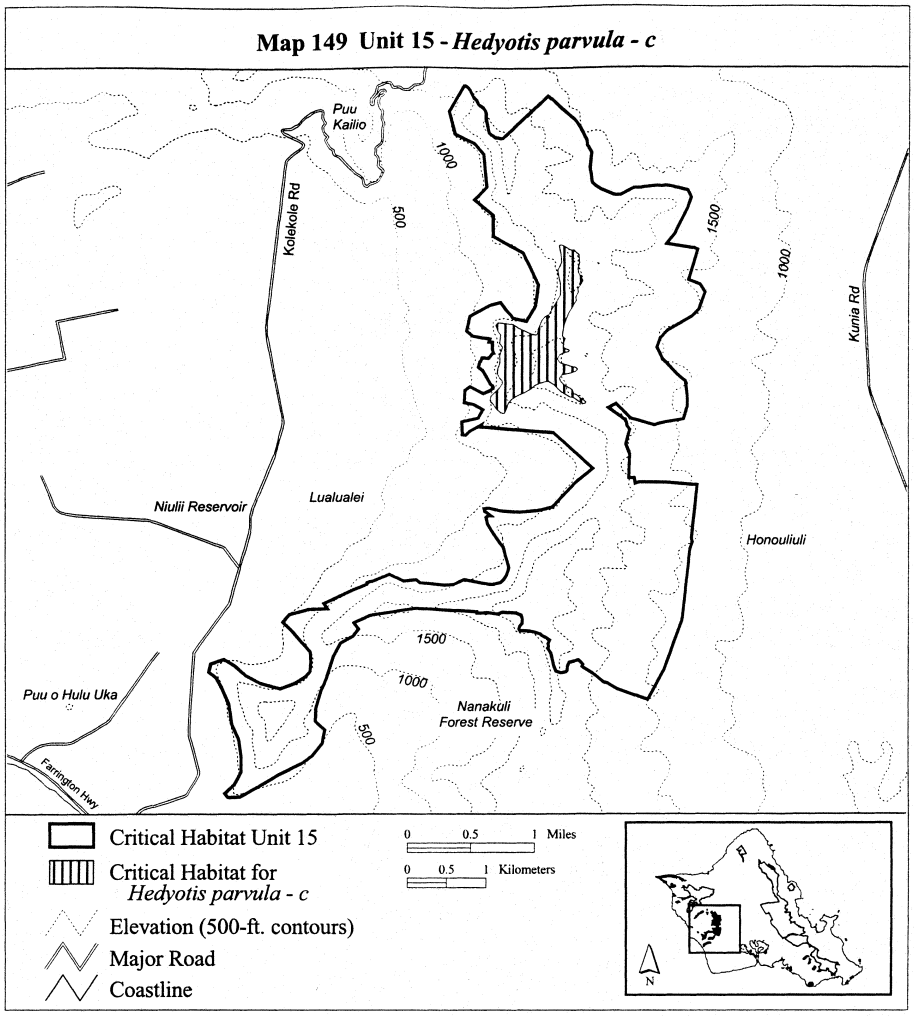
(ii) NOTE: Map 148 follows:



(149) Oahu 15—*Hedyotis parvula*—c (95 ha; 236 ac)

(i) Unit consists of the following 117 boundary points: Start at 593738, 2372184; 593738, 2372181; 593744, 2372130; 593648, 2371970; 593586, 2371810; 593572, 2371714; 593572, 2371678; 593603, 2371650; 593584, 2371594; 593581, 2371540; 593615, 2371521; 593654, 2371504; 593651, 2371487; 593575, 2371467; 593530, 2371442; 593508, 2371389; 593539, 2371344; 593612, 2371321; 593674, 2371300; 593733, 2371284; 593758, 2371258; 593738, 2371233; 593654, 2371210; 593564, 2371188; 593533, 2371146; 593542, 2371115; 593581, 2371070; 593645, 2371031; 593688, 2371003; 593713, 2370946; 593744, 2370938; 593783, 2370904; 593837, 2370865; 593865, 2370845; 593856, 2370825; 593831, 2370823; 593786, 2370848; 593702, 2370901; 593665, 2370910; 593564, 2370966; 593502, 2371022; 593449, 2371073; 593401, 2371104; 593364, 2371106; 593291, 2371087; 593224, 2371053; 593182, 2371019; 593086, 2370960; 593055, 2370944; 593024, 2370932; 592935, 2370884; 592887, 2370823; 592864, 2370752; 592839, 2370702; 592797, 2370707; 592724, 2370772; 592698, 2370817; 592662, 2370854; 592662, 2370884; 592682, 2370927; 592727, 2370974; 592777, 2371025; 592808, 2371073; 592805, 2371121; 592777, 2371154; 592752, 2371208; 592749, 2371255; 592769, 2371306; 592783, 2371362; 592777, 2371438; 592791, 2371477; 592816, 2371522; 592816, 2371551; 592777, 2371593; 592783, 2371626; 592791, 2371697; 592757, 2371742; 592727, 2371817; 592760, 2371846; 592831, 2371843; 592946, 2371830; 593030, 2371774; 593137, 2371729; 593196, 2371700; 593249, 2371698; 593261, 2371729; 593261, 2371762; 593311, 2371872; 593348, 2371928; 593390, 2371953; 593401, 2371954; 593502, 2372130; 593539, 2372201; 593544, 2372274; 593542, 2372341; 593527, 2372400; 593505, 2372510; 593525, 2372546; 593558, 2372617; 593550, 2372712; 593533, 2372785; 593525, 2372825; 593556, 2372833; 593595, 2372813; 593651, 2372782; 593730, 2372751; 593772, 2372715; 593783, 2372653; 593778, 2372605; 593764, 2372535; 593769, 2372487; 593794, 2372445; 593825, 2372392; 593806, 2372338; 593764, 2372279; 593769, 2372234; 593741, 2372187; return to starting point.

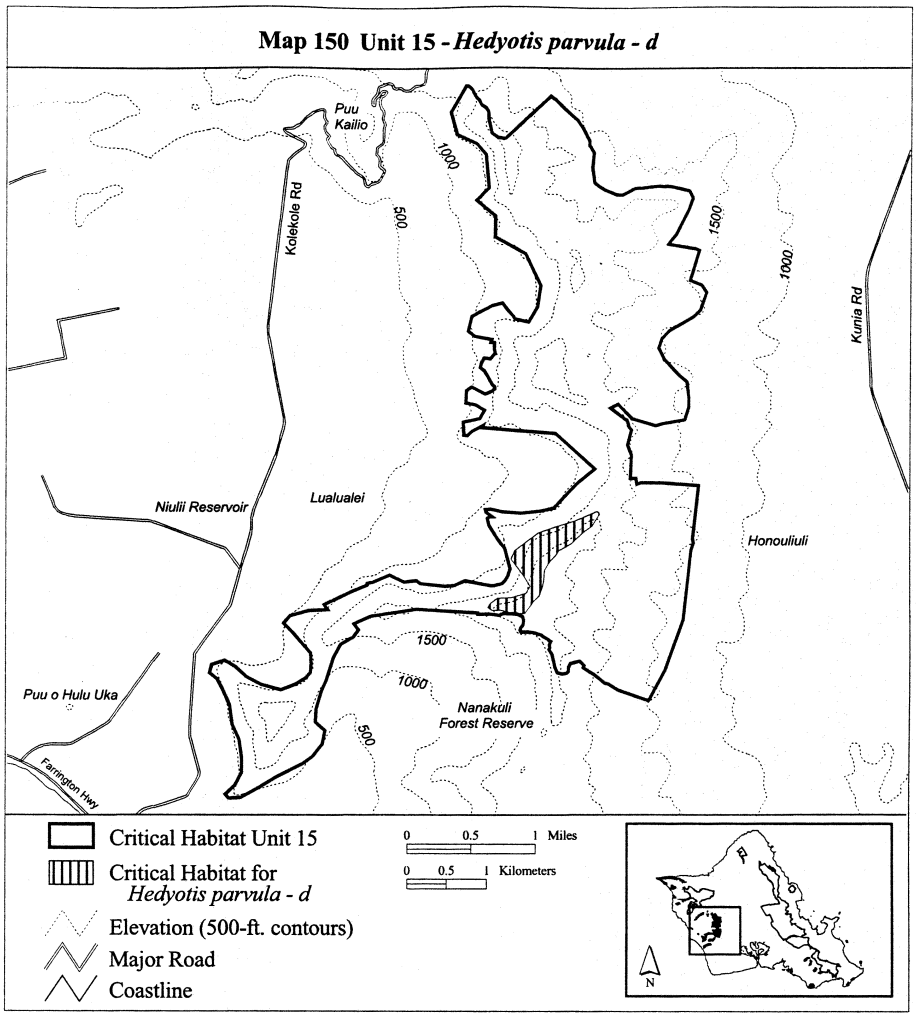
(ii) NOTE: Map 149 follows:



(150) Oahu 15—*Hedyotis parvula*—d (49 ha; 122 ac)

(i) Unit consists of the following 40 boundary points: Start at 593983, 2369454; 594001, 2369444; 594008, 2369410; 593966, 2369334; 593929, 2369269; 593825, 2369200; 593753, 2369138; 593716, 2369097; 593667, 2369049; 593602, 2369011; 593509, 2368960; 593472, 2368908; 593403, 2368829; 593365, 2368781; 593320, 2368705; 593317, 2368592; 593296, 2368492; 593252, 2368376; 593197, 2368324; 593121, 2368218; 593080, 2368166; 593018, 2368163; 592915, 2368169; 592785, 2368200; 592716, 2368200; 592668, 2368200; 592616, 2368238; 592640, 2368286; 592740, 2368355; 592901, 2368362; 593094, 2368417; 593145, 2368499; 593087, 2368599; 593015, 2368695; 592901, 2368850; 592949, 2368960; 593125, 2369094; 593248, 2369179; 593461, 2369255; 593709, 2369334; return to starting point.

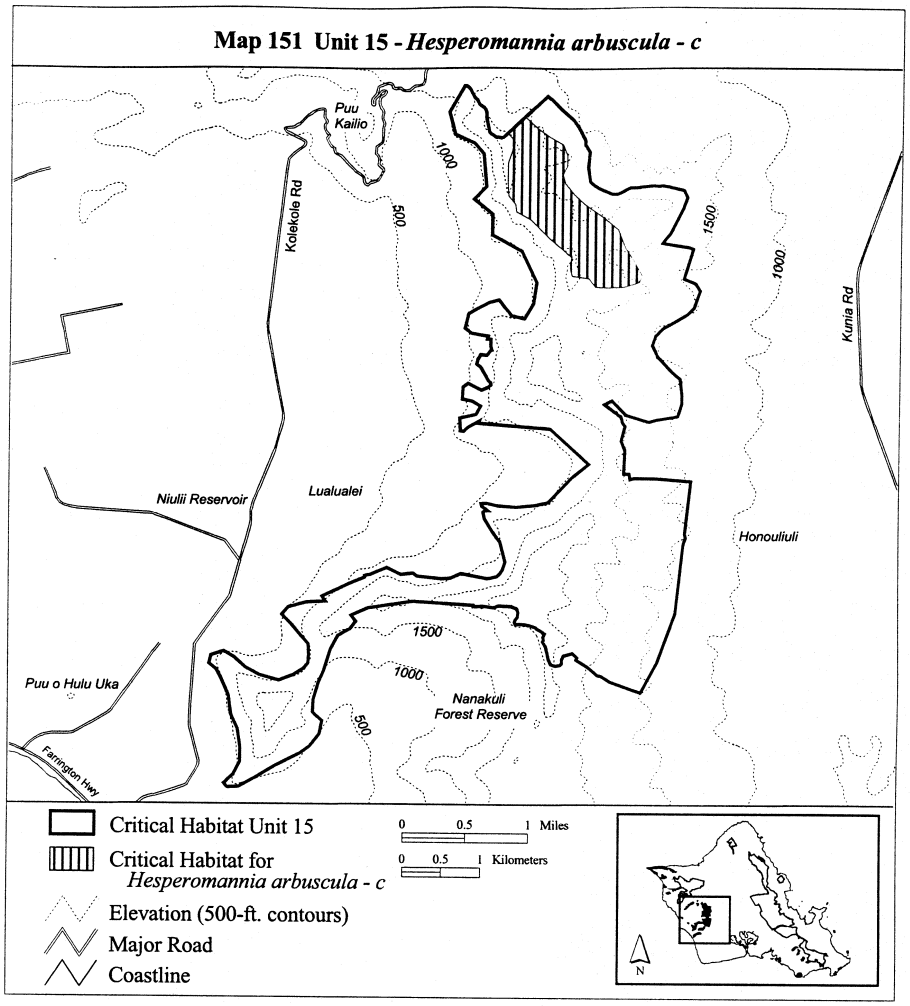
(ii) NOTE: Map 150 follows:



(151) Oahu 15—*Hesperomannia arbuscula*—c (163 ha; 402 ac)

(i) Unit consists of the following 39 boundary points: Start at 593101, 2374447; 593108, 2374441; 593272, 2374302; 593415, 2374202; 593591, 2374102; 593647, 2373974; 593647, 2373826; 593591, 2373719; 593619, 2373611; 593743, 2373463; 593879, 2373339; 594114, 2373168; 594302, 2373020; 594394, 2372784; 594521, 2372592; 594617, 2372420; 594581, 2372340; 594513, 2372316; 594370, 2372272; 594178, 2372269; 594014, 2372277; 593934, 2372381; 593715, 2372417; 593691, 2372501; 593691, 2372569; 593707, 2372657; 593595, 2372760; 593415, 2372904; 593240, 2373084; 593184, 2373140; 592996, 2373240; 592988, 2373339; 592900, 2373443; 592884, 2373603; 592884, 2373791; 592884, 2373854; 592940, 2374026; 592940, 2374170; 592880, 2374240; return to starting point.

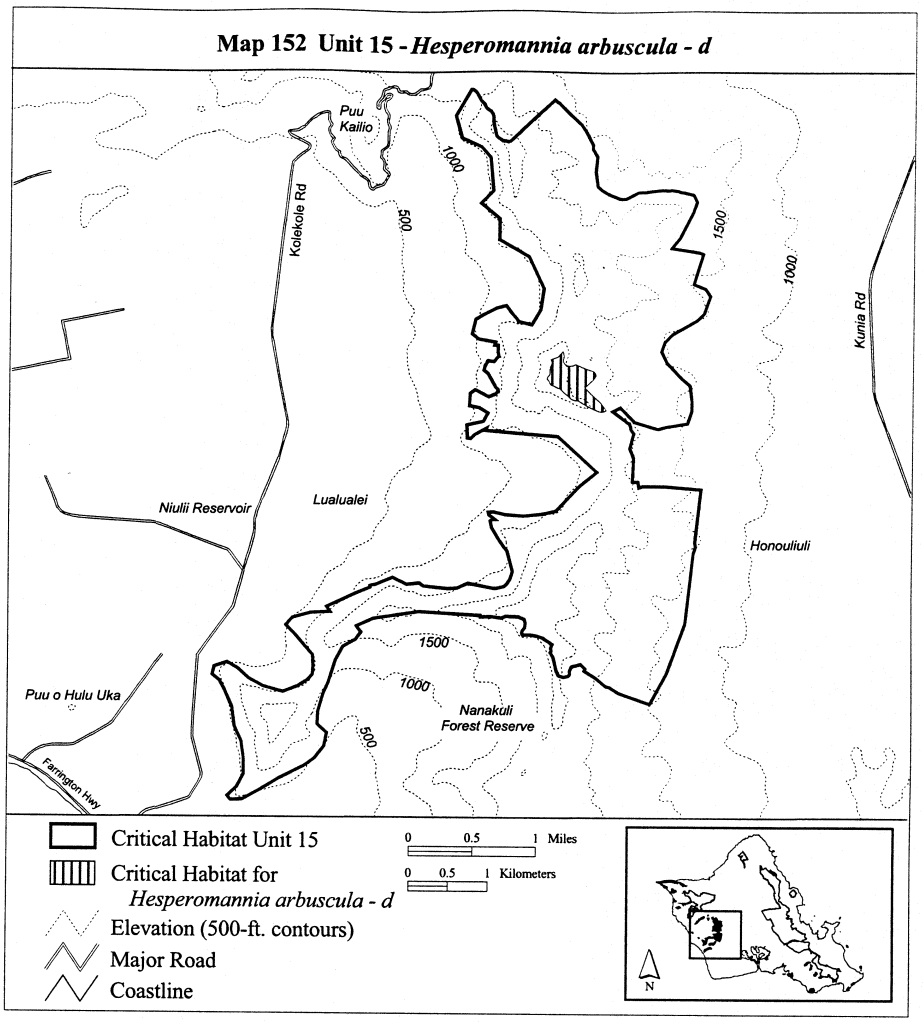
(ii) NOTE: Map 151 follows:



(152) Oahu 15—*Hesperomannia arbuscula*—d (24 ha; 60 ac)

(i) Unit consists of the following 49 boundary points: Start at 593515, 2371533; 593527, 2371465; 593511, 2371414; 593534, 2371371; 593567, 2371348; 593636, 2371350; 593679, 2371364; 593763, 2371328; 593851, 2371297; 593905, 2371278; 593926, 2371251; 593930, 2371221; 593909, 2371176; 593859, 2371140; 593821, 2371090; 593796, 2371077; 593849, 2371009; 593934, 2370936; 593992, 2370881; 594043, 2370821; 594063, 2370779; 594040, 2370766; 594011, 2370762; 593968, 2370769; 593896, 2370802; 593813, 2370844; 593769, 2370869; 593713, 2370906; 593671, 2370911; 593619, 2370927; 593575, 2370971; 593517, 2371015; 593479, 2371059; 593444, 2371077; 593402, 2371096; 593362, 2371103; 593350, 2371132; 593337, 2371165; 593314, 2371182; 593321, 2371205; 593350, 2371240; 593350, 2371271; 593350, 2371297; 593354, 2371332; 593366, 2371363; 593371, 2371391; 593360, 2371431; 593389, 2371439; 593448, 2371462; return to starting point.

(ii) NOTE: Map 152 follows:

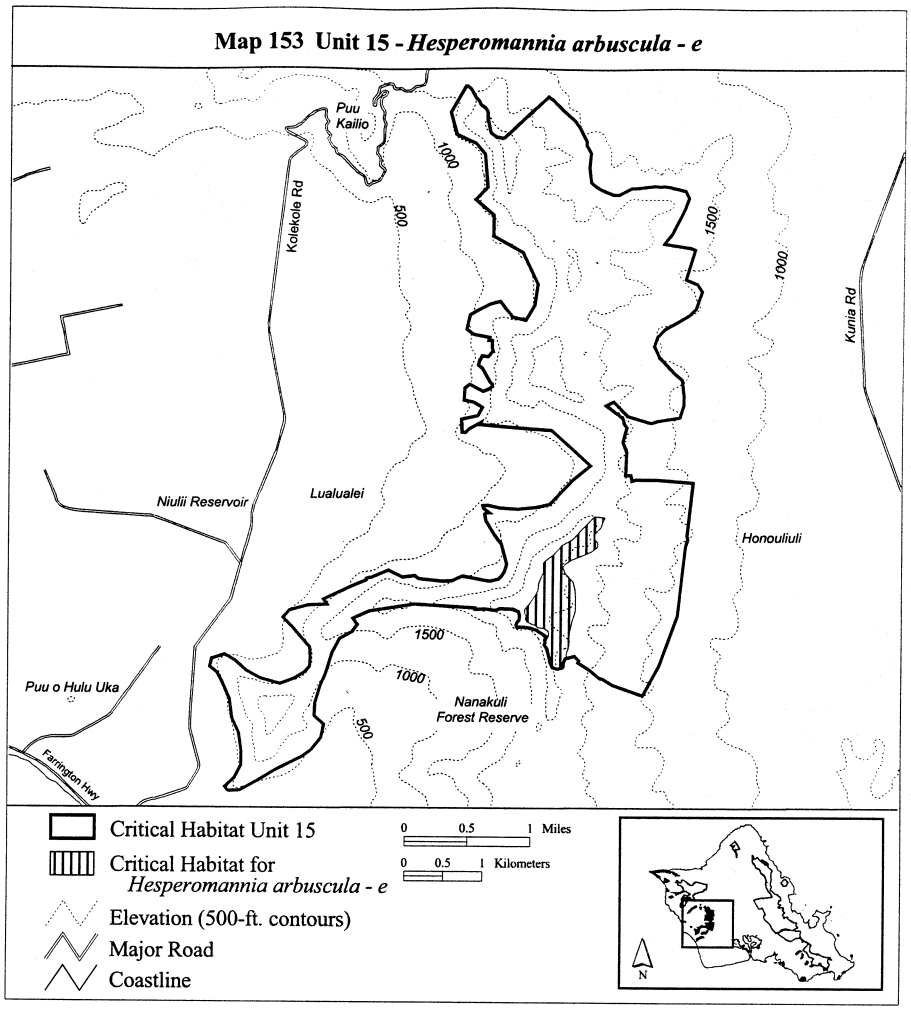


(153) Oahu 15—*Hesperomannia arbuscula*—e (70 ha; 172 ac)

(i) Unit consists of the following 61 boundary points: Start at 594011, 2369339; 594149, 2369329; 594118, 2369262; 594092, 2369198; 594045, 2369151; 594015, 2369114; 594015, 2369050; 594055, 2369007; 594051, 2368943; 593968, 2368886; 593834, 2368833; 593720, 2368786; 593649, 2368735; 593609, 2368682; 593639, 2368615; 593716, 2368531; 593740, 2368504; 593767, 2368400; 593773, 2368300; 593773, 2368136; 593736, 2368008; 593706, 2367881; 593700, 2367807; 593690, 2367677; 593666, 2367596; 593656, 2367533; 593626, 2367479; 593626, 2367429; 593606, 2367409; 593549, 2367395; 593489, 2367412; 593455, 2367482; 593442, 2367549; 593415, 2367647; 593381, 2367710; 593408, 2367754; 593435, 2367814; 593432, 2367878; 593375, 2367915; 593304, 2367921; 593271, 2367948; 593220, 2367968; 593157, 2368002; 593137, 2368029; 593153, 2368069; 593127, 2368112; 593127, 2368149; 593194, 2368233; 593271, 2368350; 593294, 2368400; 593301, 2368481; 593334, 2368565; 593358, 2368618; 593358, 2368746; 593432, 2368806; 593492,

2368849; 593556, 2368920; 593596, 2368970; 593733, 2369050; 593834, 2369164; 593921, 2369245; return to starting point.

(ii) NOTE: Map 153 follows:

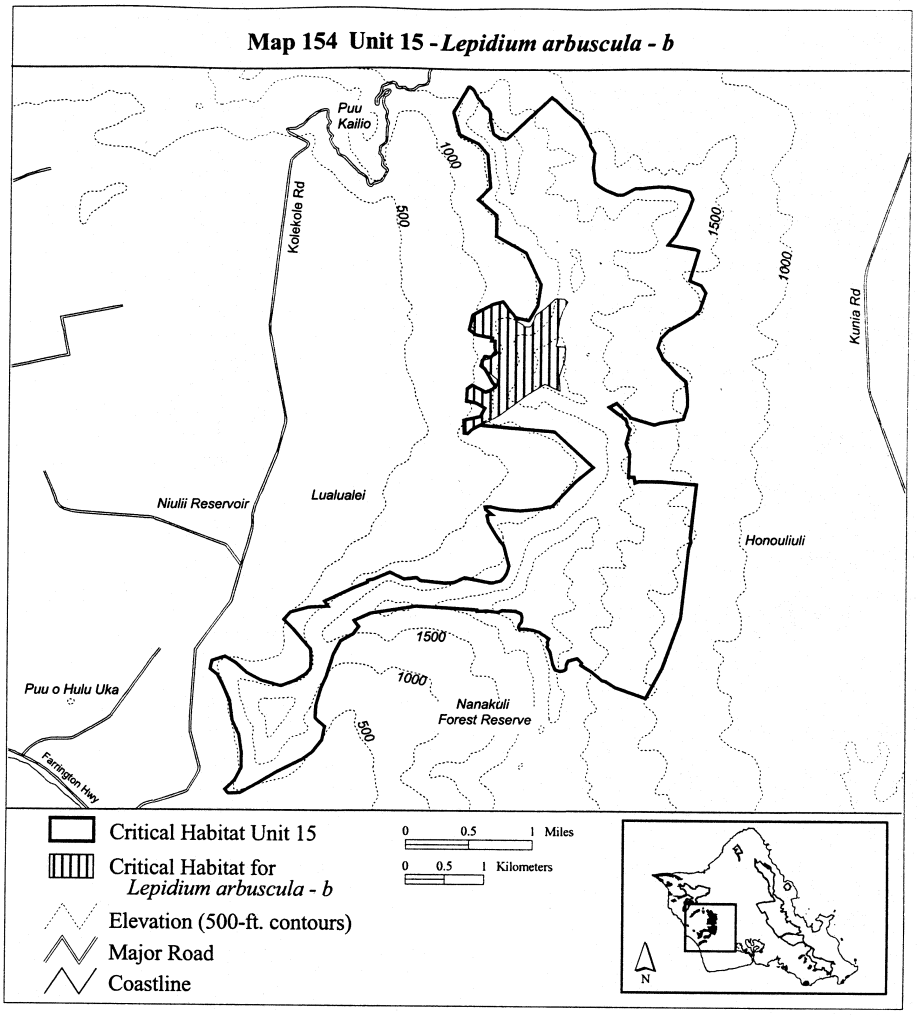


(154) Oahu 15—*Lepidium arbuscula*—b (119 ha; 293 ac)

(i) Unit consists of the following 53 boundary points: Start at 593447, 2372148; 593565, 2372148; 593608, 2372112; 593544, 2371984; 593505, 2371876; 593490, 2371744; 593490, 2371637; 593465, 2371547; 593585, 2371534; 593574, 2371368; 593504, 2371156; 593519, 2370975; 593331, 2371064; 593112, 2370931; 592749, 2370654; 592401, 2370473; 592348, 2370422; 592303, 2370423; 592298, 2370588; 592511, 2370640; 592568, 2370749; 592458, 2370816; 592333, 2370839; 592335, 2370994; 592399, 2371045; 592573, 2370950; 592711, 2371012; 592721, 2371121; 592630, 2371197; 592507, 2371287; 592529, 2371358; 592597, 2371374; 592711, 2371436;

592687, 2371512; 592687, 2371607; 592645, 2371609; 592655, 2371643; 592439, 2371683; 592357, 2371749; 592404, 2371930; 592511, 2371994; 592670, 2372075; 592791, 2372111; 592861, 2372016; 592921, 2371946; 592946, 2371910; 592954, 2371866; 593033, 2371823; 593068, 2371794; 593140, 2371794; 593183, 2371880; 593203, 2371941; 593316, 2372023; return to starting point.

(ii) NOTE: Map 154 follows:

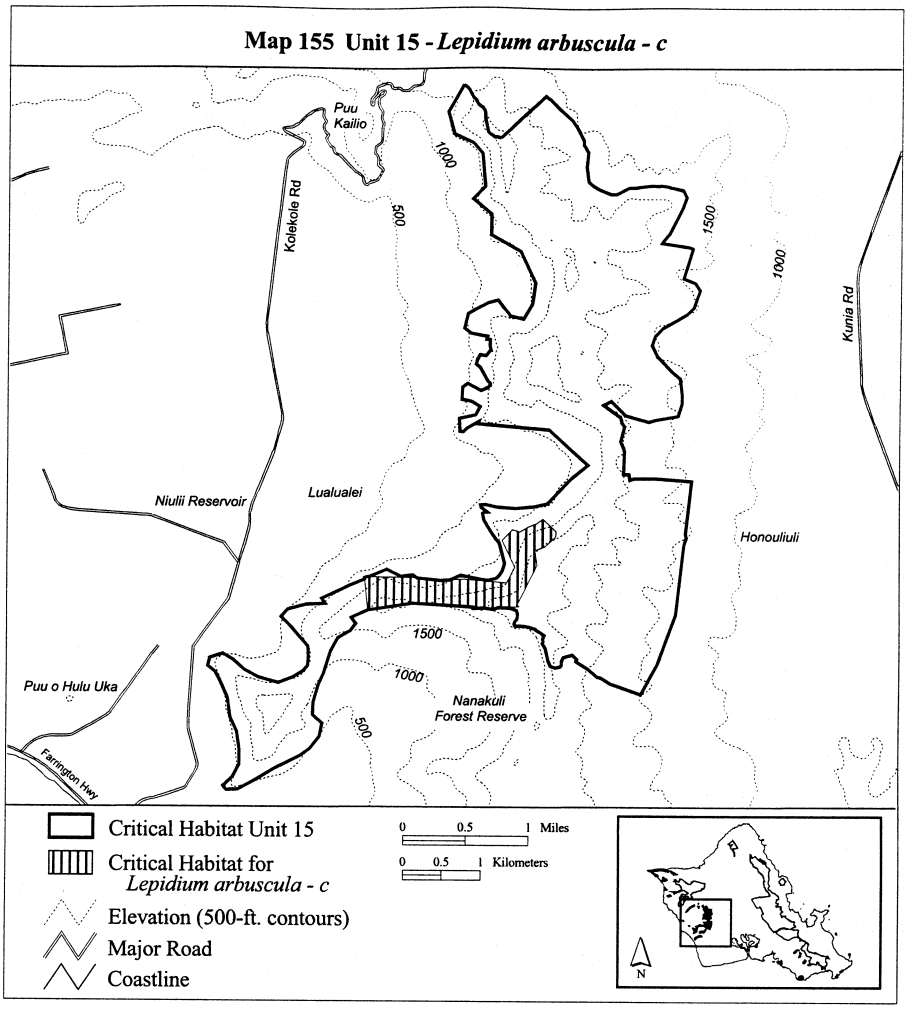


(155) Oahu 15—*Lepidium arbuscula*—c (99 ha; 245 ac)

(i) Unit consists of the following 25 boundary points: Start at 591090, 2368536; 591131, 2368549; 591714, 2368544; 592077, 2368508; 592367, 2368526; 592921, 2368481; 593026, 2368679; 592857, 2369023; 592994, 2369159; 593086, 2369134; 593198, 2369200; 593307, 2369244; 593378, 2369303; 593550, 2369145; 593547, 2369063; 593406, 2368937; 593278, 2368892; 593310, 2368706; 593058, 2368199; 593078, 2368178; 592491, 2368152; 592490, 2368151; 592491, 2368168;

591718, 2368217; 591140, 2368128; return to starting point.

(ii) NOTE: Map 155 follows:

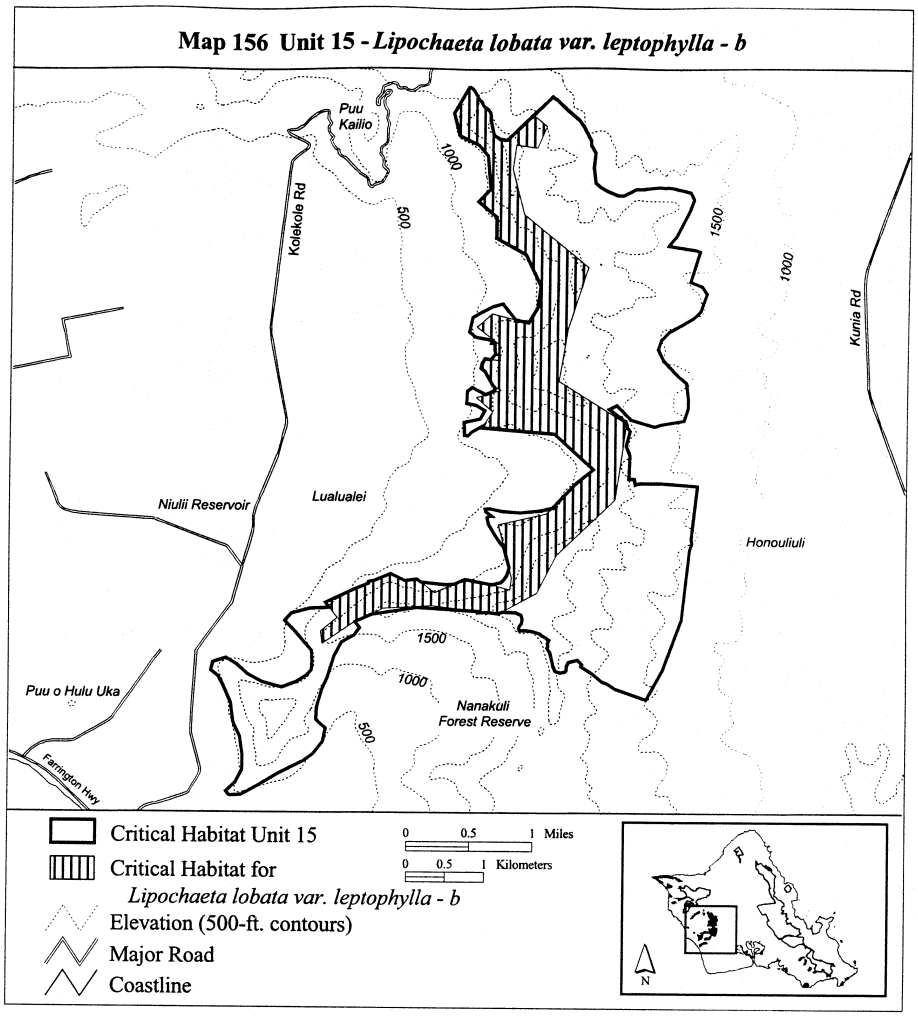


(156) Oahu 15—*Lipochaeta lobata* var. *leptophylla*—b (534 ha; 1,320 ac)

(i) Unit consists of the following 84 boundary points: Start at 593149, 2374492; 593322, 2374347; 593202, 2374077; 592932, 2374119; 592890, 2373813; 593040, 2373249; 593861, 2372568; 593616, 2371792; 593508, 2371124; 594371, 2370587; 594228, 2369606; 593493, 2368894; 593248, 2368404; 592759, 2368139; 591902, 2368241; 591290, 2368200; 590902, 2368016; 590508, 2367753; 590489, 2367907; 590699, 2368079; 590546, 2368270; 590910, 2368443; 591380, 2368646; 591561, 2368558; 591714, 2368577; 591944, 2368404; 592327, 2368577; 592633, 2368519; 592901, 2368443; 592920, 2368596; 592748, 2369285; 593361, 2369419; 593744, 2369821; 593954, 2369993; 593456, 2370453; 592537, 2370530; 592671, 2370740; 592461, 2370912;

592767, 2371008; 592671, 2371066; 592518, 2371315; 592557, 2371410; 592729, 2371391; 592729, 2371602; 592461, 2371812; 592652, 2371985; 593112, 2371871; 593227, 2372062; 593265, 2372330; 593073, 2372732; 592691, 2372943; 592691, 2373211; 592461, 2373402; 592614, 2373556; 592576, 2373977; 592461, 2374111; 592212, 2374226; 592135, 2374513; 592328, 2374840; 592345, 2374840; 592384, 2374811; 592404, 2374781; 592454, 2374691; 592484, 2374661; 592514, 2374601; 592514, 2374600; 592574, 2374561; 592594, 2374531; 592604, 2374492; 592604, 2374422; 592634, 2374282; 592634, 2374281; 592644, 2374251; 592664, 2374231; 592664, 2374230; 592724, 2374190; 592725, 2374190; 592726, 2374190; 592765, 2374190; 592805, 2374172; 592805, 2374171; 592806, 2374171; 592807, 2374171; 592807, 2374172; return to starting point.

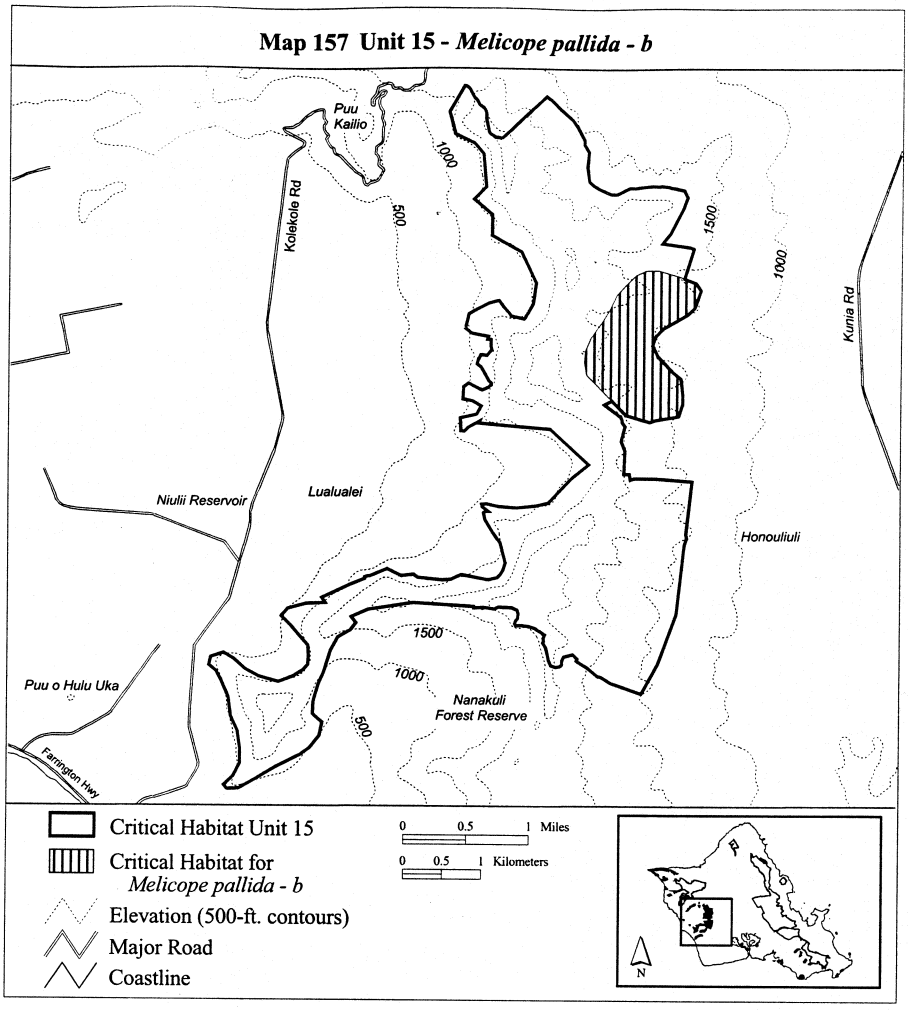
(ii) NOTE: Map 156 follows:



(157) Oahu 15—*Melicope pallida*—b (174 ha; 431 ac)

(i) Unit consists of the following 30 boundary points: Start at 593915, 2371158; 593885, 2371316; 593902, 2371460; 593968, 2371623; 594112, 2371815; 594204, 2371968; 594309, 2372178; 594405, 2372290; 594540, 2372426; 594680, 2372491; 594833, 2372491; 595130, 2372404; 595305, 2372330; 595371, 2372238; 595318, 2372089; 595292, 2372015; 595209, 2371932; 595069, 2371849; 594894, 2371748; 594794, 2371648; 594759, 2371530; 594820, 2371399; 595008, 2371202; 595122, 2371106; 595148, 2370901; 595148, 2370783; 595095, 2370625; 594811, 2370573; 594724, 2370547; 594422, 2370634; return to starting point.

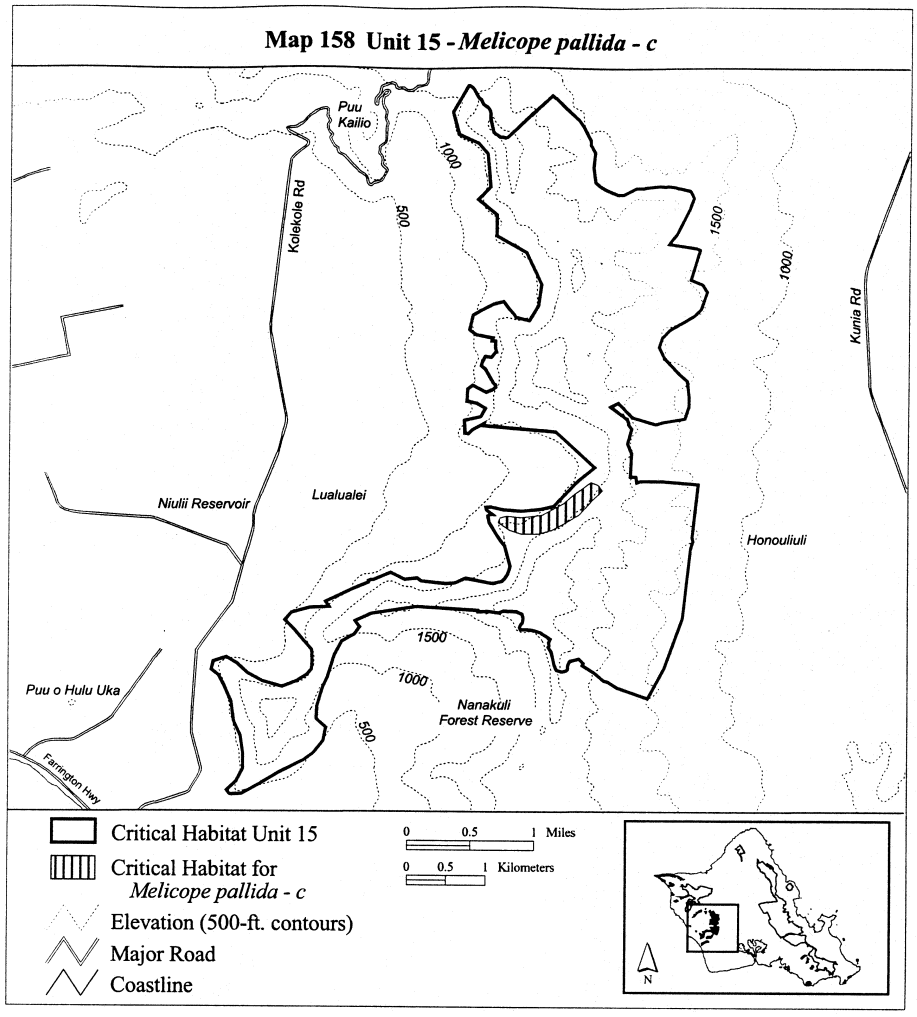
(ii) NOTE: Map 157 follows:



(158) Oahu 15—*Melicope pallida*—c (29 ha; 72 ac)

(i) Unit consists of the following 18 boundary points: Start at 592844, 2369370; 593026, 2369351; 593289, 2369381; 593556, 2369529; 593697, 2369648; 593797, 2369722; 593904, 2369803; 594001, 2369763; 594056, 2369696; 593934, 2369581; 593760, 2369392; 593604, 2369296; 593419, 2369192; 593245, 2369140; 593033, 2369140; 592885, 2369184; 592741, 2369288; 592763, 2369348; return to starting point.

(ii) NOTE: Map 158 follows:

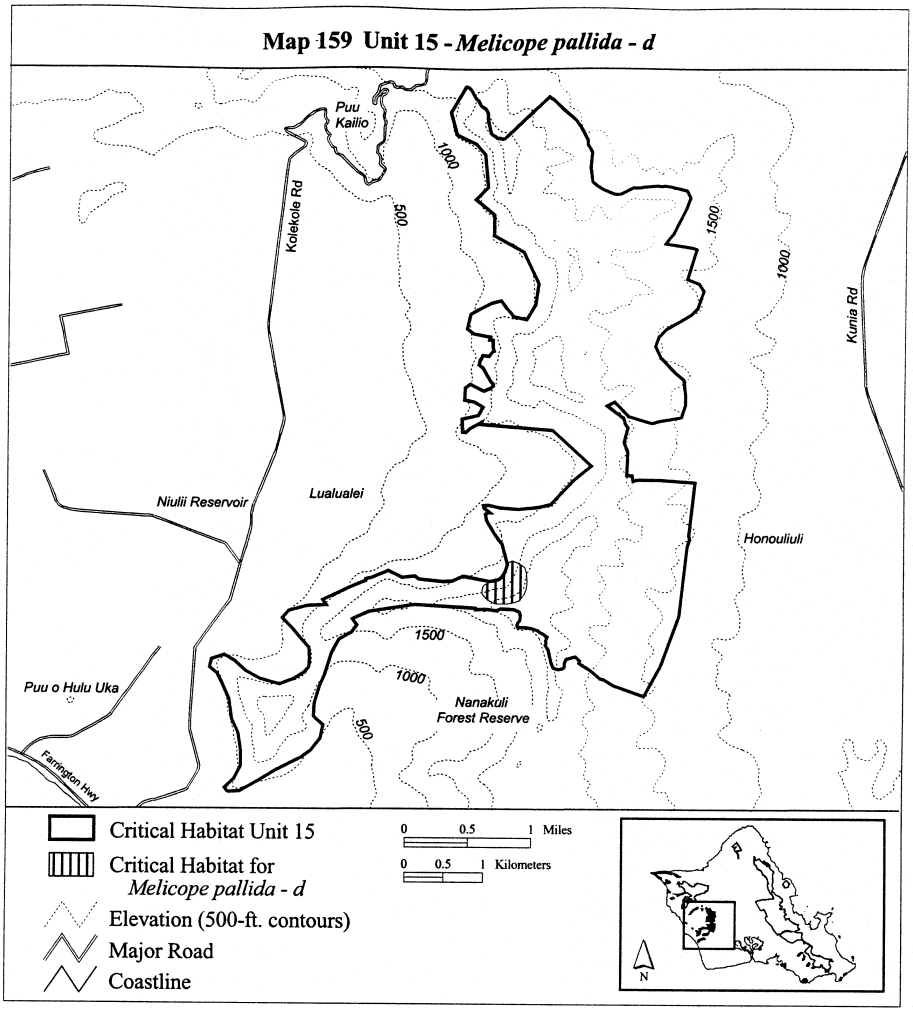


(159) Oahu 15—*Melicope pallida*—d (20 ha; 50 ac)

(i) Unit consists of the following 27 boundary points: Start at 593034, 2368745; 593076, 2368722; 593112, 2368689; 593130, 2368627; 593145, 2368522; 593138, 2368427; 593104, 2368340; 593057, 2368274; 592991, 2368244; 592892, 2368225; 592784, 2368227; 592748, 2368227; 592644, 2368269;

592602, 2368319; 592576, 2368352; 592576, 2368406; 592588, 2368448; 592611, 2368477; 592661, 2368503; 592732, 2368526; 592789, 2368540; 592829, 2368576; 592866, 2368639; 592881, 2368701; 592892, 2368745; 592932, 2368767; 592958, 2368772; return to starting point.

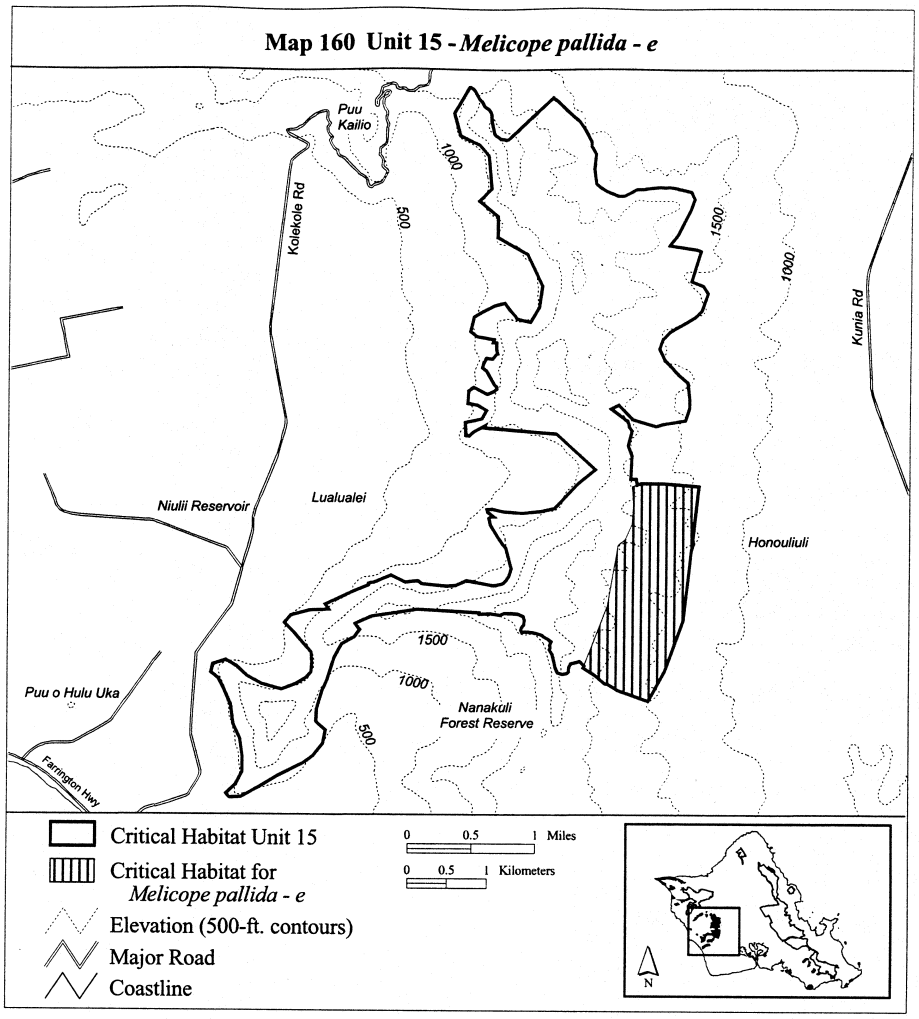
(ii) NOTE: Map 159 follows:



(160) Oahu 15—*Melicope pallida*—e (243 ha; 602 ac)

(i) Unit consists of the following 16 boundary points: Start at 594423, 2369292; 594438, 2369540; 594423, 2369777; 594527, 2369815; 594820, 2369815; 595271, 2369781; 595080, 2368083; 594844, 2367434; 594641, 2367062; 594256, 2367191; 593830, 2367465; 593813, 2367480; 594115, 2368259; 594242, 2369020; 594245, 2369025; 594338, 2369107; return to starting point.

(ii) NOTE: Map 160 follows:

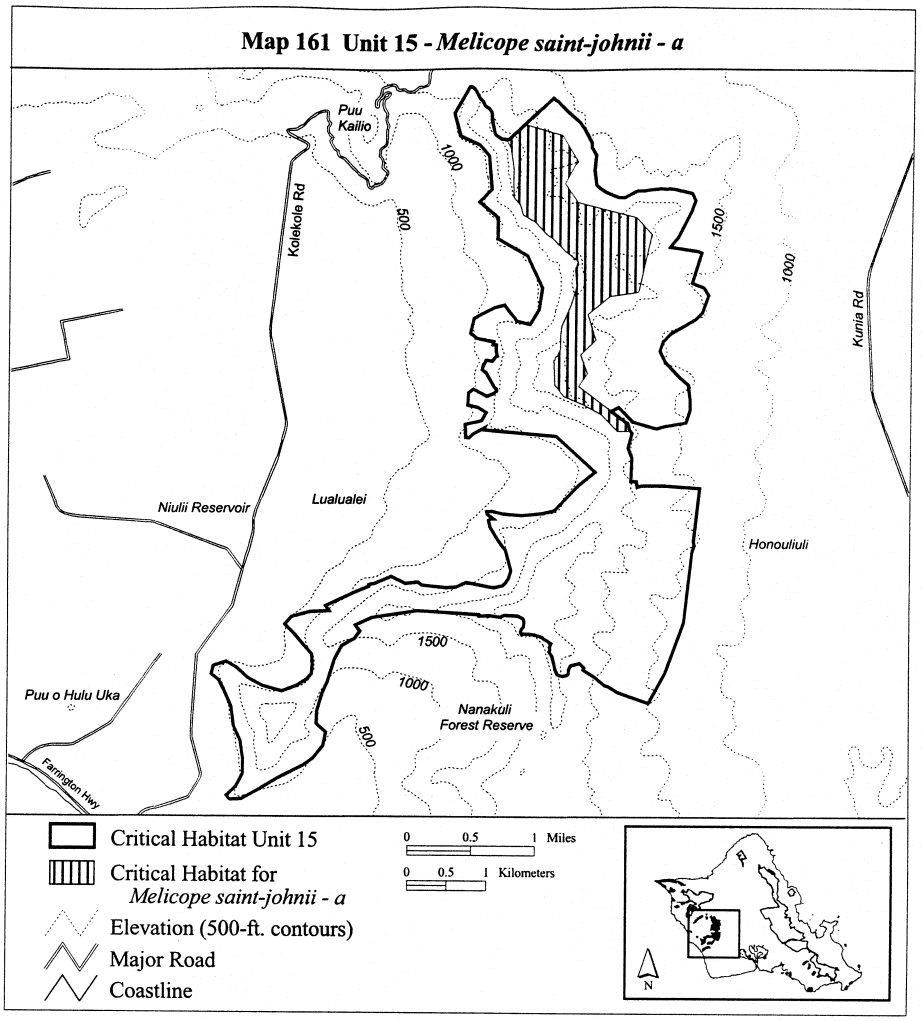


(161) Oahu 15—*Melicope saint-johnii*—a (244 ha; 604 ac)

(i) Unit consists of the following 59 boundary points: Start at 593044, 2374373; 593508, 2374248; 593702, 2373921; 593671, 2373883; 593545, 2373648; 593710, 2373413; 594455, 2373217; 594643, 2373004; 594488, 2372290; 594486, 2372290; 594478, 2372273; 594122, 2372225; 593844, 2371996; 593948, 2371674; 593953, 2371672; 593753, 2371488; 593844, 2371244; 593734, 2371085; 594352, 2370615; 594357, 2370618; 594377, 2370557; 594382, 2370517; 594227, 2370514; 594227, 2370520; 594022, 2370732; 593802, 2370850; 593548, 2370960; 593457, 2371077; 593432, 2371099; 593430, 2371115; 593416, 2371418; 593430, 2371418; 593434, 2371461; 593461, 2371469; 593499, 2371560; 593502, 2371727; 593510, 2371844; 593635, 2372121; 593696, 2372345; 593681, 2372557; 593719, 2372667; 593544, 2372800; 593400, 2372951; 593309, 2373012; 593173, 2373156; 593013, 2373247; 592972, 2373369; 592888, 2373460; 592884, 2373619; 592884, 2373824; 592847, 2374081; 592790, 2374178; 592805, 2374172; 592805, 2374171; 592806, 2374171; 592807,

2374171; 592807, 2374172; 593007, 2374359; 593038, 2374369; return to starting point.

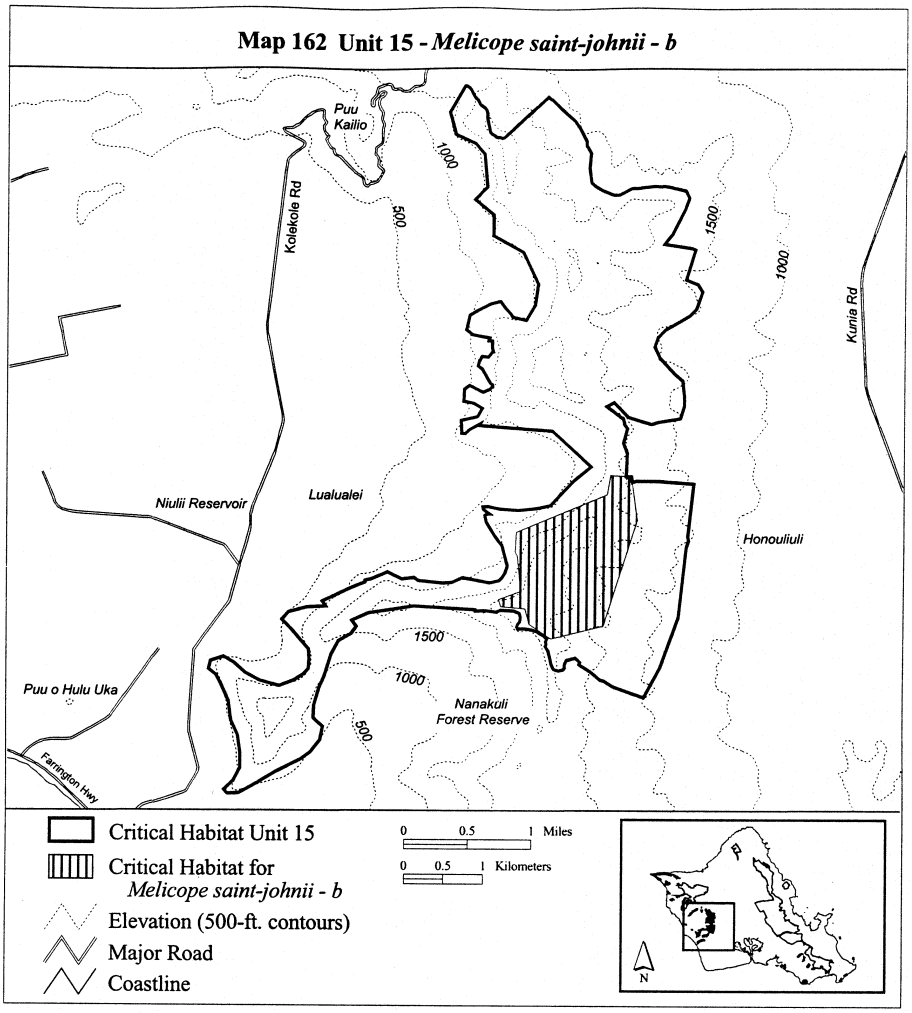
(ii) NOTE: Map 161 follows:



(162) Oahu 15—*Melicope saint-johnii*—b (214 ha; 529 ac)

(i) Unit consists of the following 17 boundary points: Start at 593451, 2367805; 593168, 2367990; 593120, 2368182; 592816, 2368208; 592780, 2368300; 593052, 2368401; 593052, 2368518; 593019, 2368854; 592993, 2368899; 593007, 2369154; 594161, 2369636; 594203, 2369883; 594473, 2369871; 594549, 2369326; 594554, 2369325; 594126, 2367970; 593462, 2367802; return to starting point.

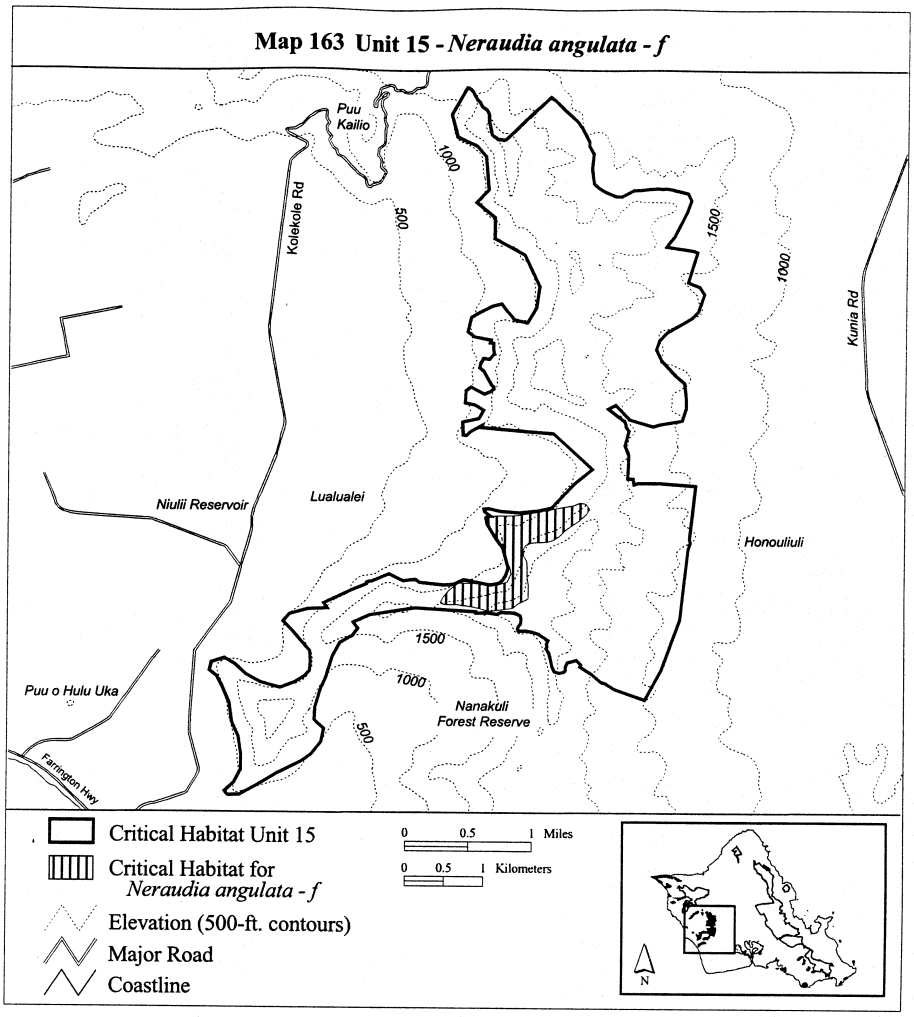
(ii) NOTE: Map 162 follows:



(163) Oahu 15—*Neraudia angulata*—f (84 ha; 207 ac)

(i) Unit consists of the following 50 boundary points: Start at 592634, 2369389; 592987, 2369396; 593220, 2369432; 593560, 2369500; 593732, 2369531; 593797, 2369561; 593873, 2369552; 593922, 2369478; 593886, 2369420; 593784, 2369328; 593631, 2369227; 593530, 2369132; 593471, 2369083; 593389, 2369058; 593232, 2369055; 593180, 2369046; 593110, 2369018; 593079, 2368960; 593085, 2368886; 593125, 2368816; 593131, 2368733; 593134, 2368613; 593149, 2368509; 593149, 2368402; 593149, 2368337; 593021, 2368270; 592956, 2368218; 592763, 2368187; 592646, 2368178; 592515, 2368215; 592355, 2368245; 592303, 2368248; 592263, 2368261; 592082, 2368258; 592039, 2368282; 592073, 2368353; 592146, 2368445; 592266, 2368531; 592530, 2368525; 592751, 2368506; 592886, 2368552; 592926, 2368656; 592919, 2368733; 592883, 2368801; 592849, 2368920; 592830, 2368978; 592784, 2369034; 592723, 2369116; 592625, 2369282; 592603, 2369371; return to starting point.

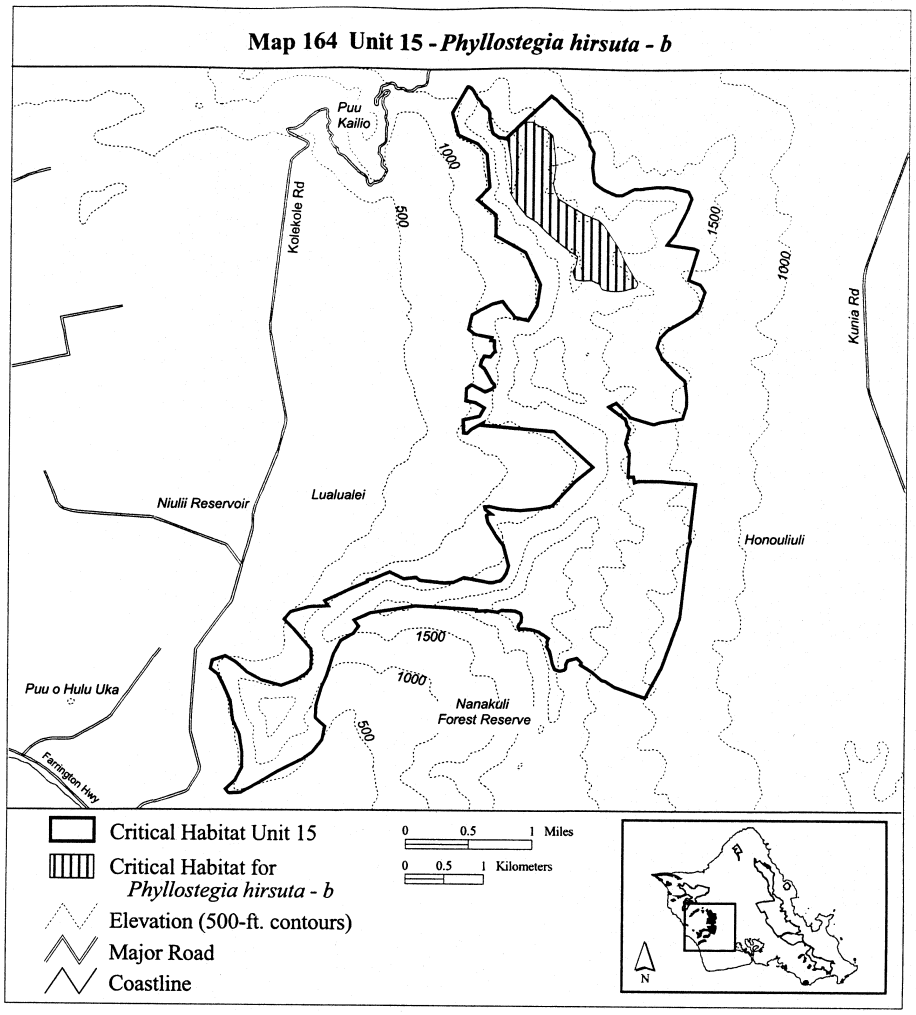
(ii) NOTE: Map 163 follows:



(164) Oahu 15—*Phyllostegia hirsuta*—b (131 ha; 323 ac)

(i) Unit consists of the following 53 boundary points: Start at 593031, 2374382; 593173, 2374381; 593174, 2374368; 593177, 2374368; 593331, 2374283; 593403, 2374220; 593416, 2374135; 593438, 2373950; 593444, 2373802; 593419, 2373604; 593435, 2373513; 593466, 2373450; 593491, 2373409; 593658, 2373311; 593815, 2373220; 594004, 2373145; 594067, 2373085; 594152, 2372953; 594255, 2372805; 594334, 2372639; 594438, 2372459; 594504, 2372358; 594504, 2372323; 594482, 2372292; 594397, 2372273; 594353, 2372254; 594265, 2372243; 594174, 2372240; 594086, 2372255; 594048, 2372274; 594007, 2372337; 593910, 2372381; 593812, 2372378; 593711, 2372390; 593671, 2372488; 593715, 2372570; 593733, 2372686; 593633, 2372749; 593488, 2372868; 593350, 2372981; 593205, 2373120; 593083, 2373195; 592957, 2373352; 592885, 2373465; 592882, 2373585; 592885, 2373764; 592872, 2373928; 592834, 2374148; 592784, 2374181; 592805, 2374172; 592806, 2374171; 592807, 2374171; 592807, 2374172; return to starting point.

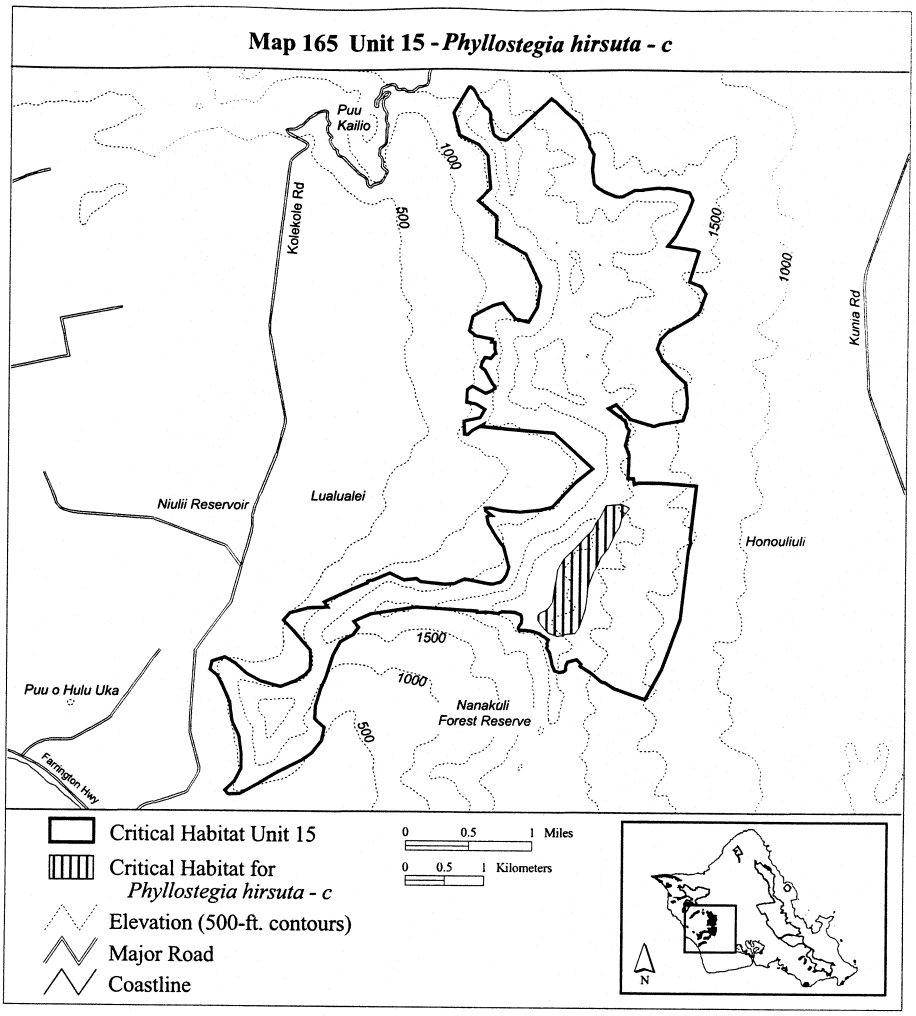
(ii) NOTE: Map 164 follows:



(165) Oahu 15—*Phyllostegia hirsuta*—c (69 ha; 171 ac)

(i) Unit consists of the following 38 boundary points: Start at 594054, 2369371; 594132, 2369522; 594326, 2369540; 594429, 2369492; 594328, 2369361; 594298, 2369245; 594248, 2369165; 594210, 2369079; 594162, 2368974; 594062, 2368848; 594031, 2368765; 593969, 2368657; 593906, 2368493; 593891, 2368300; 593876, 2368204; 593825, 2368041; 593795, 2367953; 593750, 2367890; 593659, 2367882; 593521, 2367855; 593403, 2367895; 593368, 2367928; 593310, 2367996; 593267, 2368061; 593264, 2368121; 593300, 2368149; 593368, 2368184; 593413, 2368219; 593448, 2368280; 593478, 2368461; 593501, 2368599; 593511, 2368692; 593591, 2368830; 593647, 2368886; 593732, 2368966; 593850, 2369097; 593956, 2369208; 593994, 2369293; return to starting point.

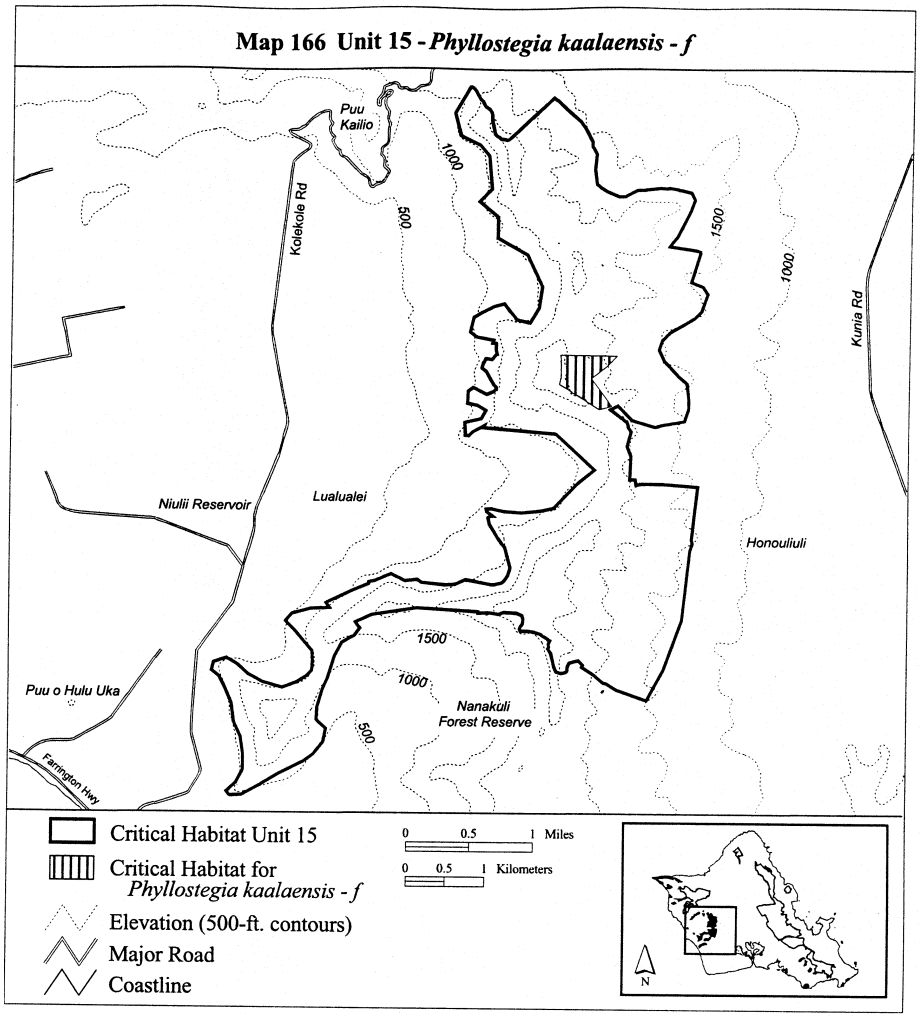
(ii) NOTE: Map 165 follows:



(166) Oahu 15—*Phyllostegia kaalaensis*—f (30 ha; 74 ac)

(i) Unit consists of the following 21 boundary points: Start at 593699, 2370957; 593696, 2370958; 593649, 2370988; 593650, 2370989; 593495, 2371087; 593508, 2371143; 593507, 2371145; 593509, 2371151; 593513, 2371169; 593510, 2371364; 593505, 2371383; 593510, 2371387; 593509, 2371460; 594222, 2371452; 594169, 2371394; 594166, 2371388; 594157, 2371381; 594109, 2371327; 593903, 2371160; 594159, 2370816; 594000, 2370766; return to starting point.

(ii) NOTE: Map 166 follows:

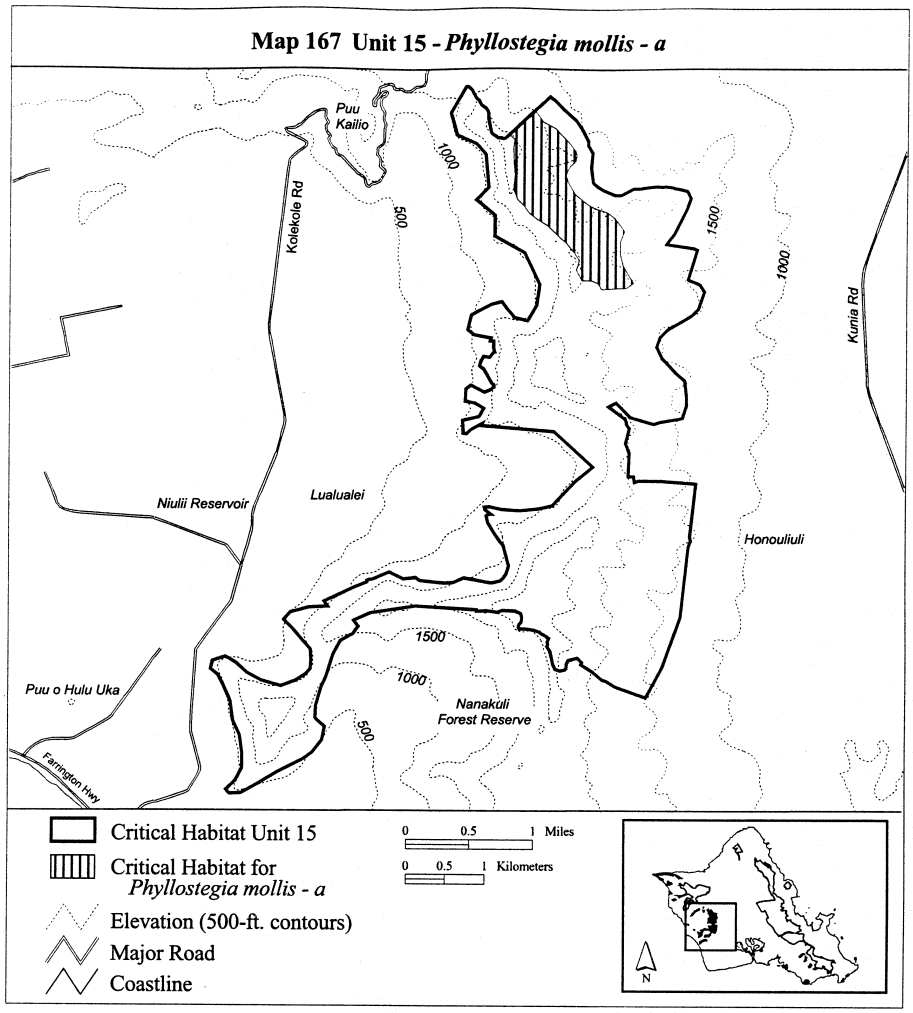


(167) Oahu 15—*Phyllostegia mollis*—a (152 ha; 376 ac)

(i) Unit consists of the following 56 boundary points: Start at 593194, 2374534; 593221, 2374505; 593297, 2374397; 593462, 2374312; 593547, 2374228; 593615, 2374156; 593711, 2374035; 593727, 2373975; 593719, 2373903; 593655, 2373842; 593603, 2373758; 593587, 2373718; 593615, 2373649; 593643, 2373601; 593711, 2373485; 593772, 2373432; 593872, 2373352; 593972, 2373300; 594125, 2373252; 594210, 2373183; 594290, 2373091; 594342, 2373011; 594286, 2372870; 594286, 2372713; 594322, 2372581; 594410, 2372419; 594459, 2372342; 594362, 2372278; 594262, 2372279; 594069, 2372271; 594045, 2372275; 594025, 2372307; 593997, 2372348; 593952, 2372372; 593896, 2372380; 593800, 2372384; 593772, 2372432; 593727, 2372520; 593755, 2372589; 593763, 2372645; 593703, 2372733; 593603, 2372858; 593514, 2372938; 593446, 2373007; 593354, 2373087; 593225, 2373167; 593125, 2373240; 593048, 2373340; 592976, 2373412; 592928, 2373529; 592928, 2373593; 592944, 2373714; 592928, 2373862;

592920, 2374063; 592936, 2374168; 592871, 2374232; return to starting point.

(ii) NOTE: Map 167 follows:

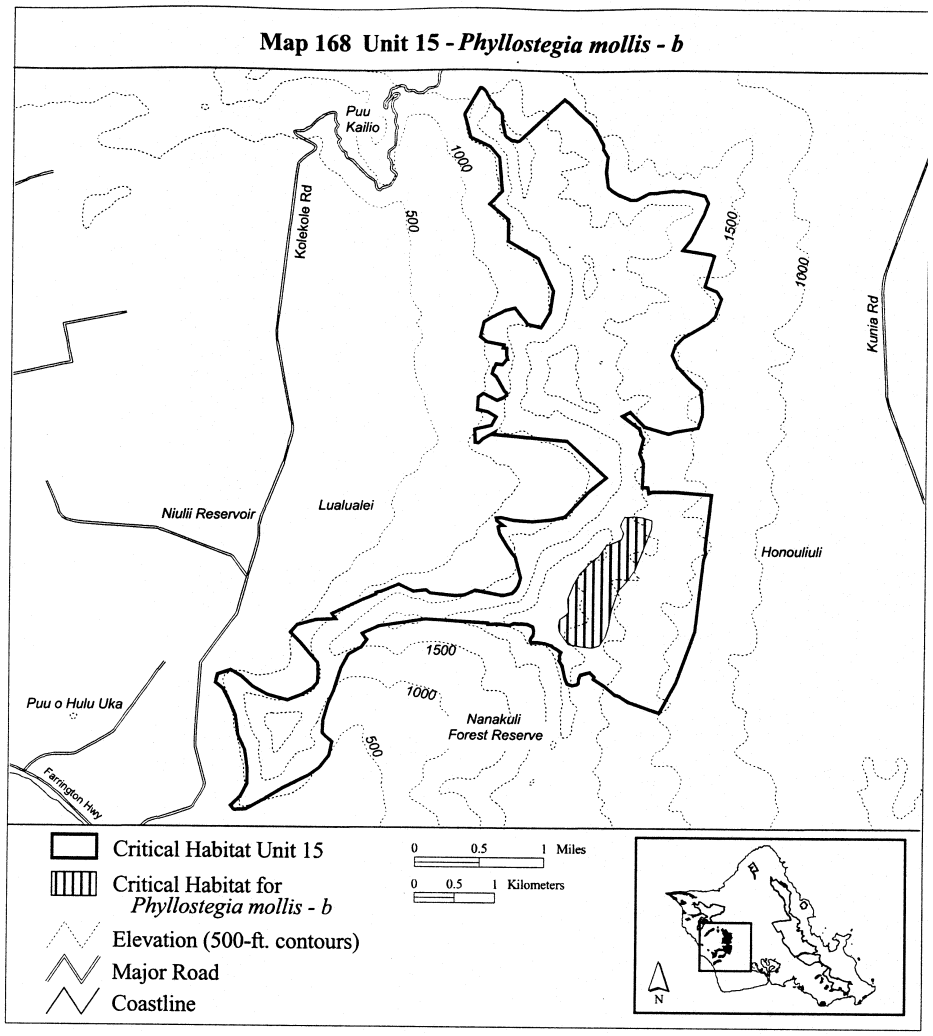


(168) Oahu 15—*Phyllostegia mollis*—b (85 ha; 210 ac)

(i) Unit consists of the following 42 boundary points: Start at 594134, 2369384; 594148, 2369422; 594165, 2369458; 594187, 2369496; 594246, 2369500; 594313, 2369503; 594422, 2369489; 594528, 2369461; 594528, 2369419; 594524, 2369345; 594482, 2369250; 594415, 2369071; 594366, 2368940; 594320, 2368831; 594229, 2368701; 594127, 2368592; 594084, 2368497; 594035, 2368328; 593993, 2368127; 593958, 2367997; 593887, 2367899; 593799, 2367867; 593662, 2367881; 593497, 2367913; 593440, 2367972; 593381, 2368067; 593370, 2368141; 593388, 2368215; 593458, 2368265; 593497, 2368303; 593483, 2368472; 593511, 2368550; 593553, 2368638; 593623, 2368771; 593701, 2368863; 593789, 2368947; 593870, 2369000; 593916, 2369071;

593965, 2369144; 594053, 2369176; 594148, 2369218; 594172, 2369292; return to starting point.

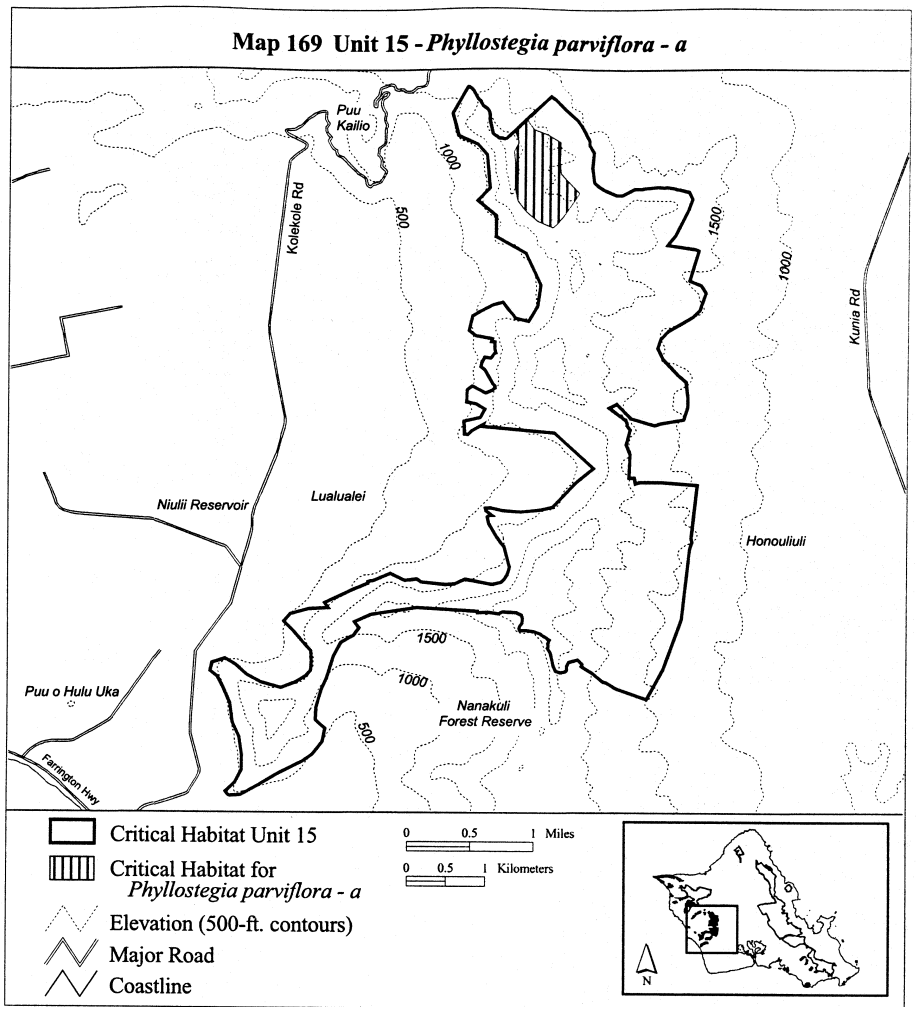
(ii) NOTE: Map 168 follows:



(169) Oahu 15—*Phyllostegia parviflora*—a (70 ha; 173 ac)

(i) Unit consists of the following 24 boundary points: Start at 593084, 2374431; 593099, 2374381; 593167, 2374293; 593344, 2374229; 593504, 2374137; 593508, 2374017; 593500, 2373876; 593512, 2373740; 593600, 2373640; 593752, 2373496; 593652, 2373340; 593564, 2373216; 593480, 2373112; 593420, 2373056; 593224, 2373140; 593067, 2373268; 592963, 2373400; 592927, 2373556; 592927, 2373744; 592927, 2373880; 592919, 2374013; 592971, 2374133; 592931, 2374261; 592909, 2374268; return to starting point.

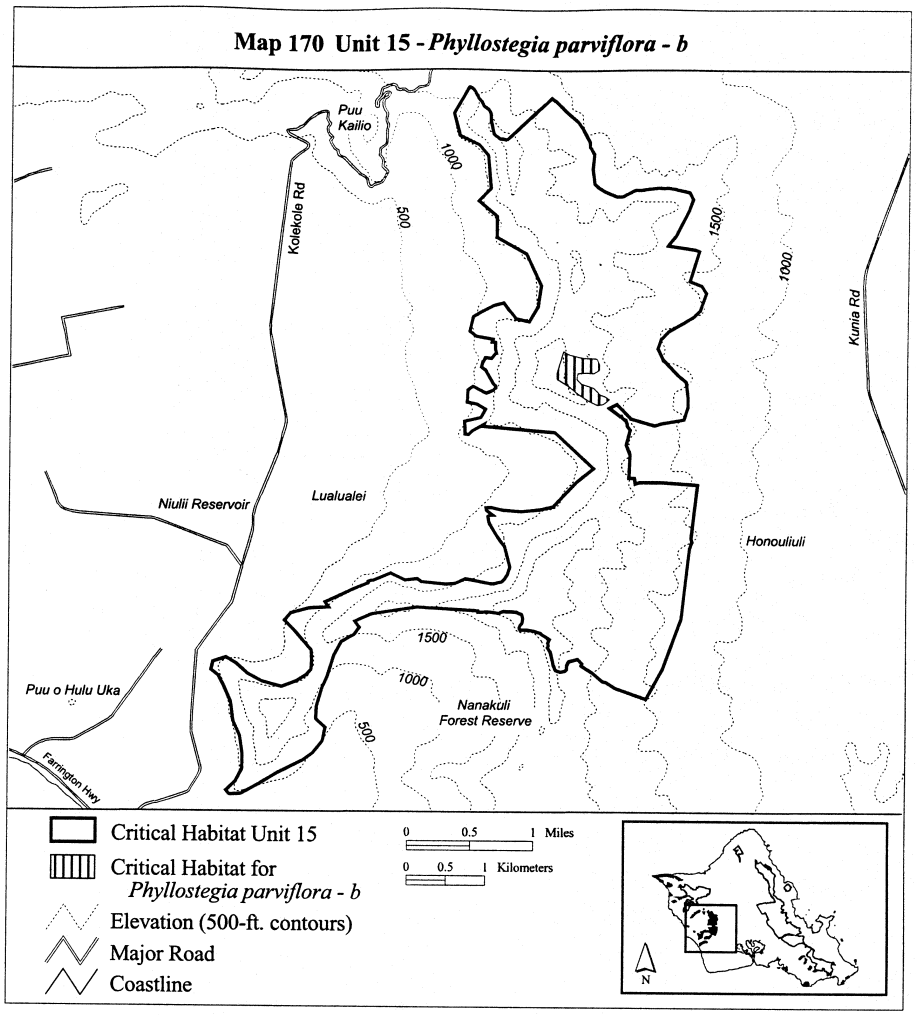
(ii) NOTE: Map 169 follows:



(170) Oahu 15—*Phyllostegia parviflora*—b (21 ha; 51 ac)

(i) Unit consists of the following 23 boundary points: Start at 593556, 2371486; 593640, 2371442; 593808, 2371405; 593984, 2371397; 594016, 2371325; 594016, 2371253; 593948, 2371209; 593860, 2371213; 593740, 2371209; 593728, 2371133; 593792, 2371077; 593944, 2371021; 594032, 2370932; 594092, 2370916; 594148, 2370880; 594124, 2370856; 594072, 2370820; 594000, 2370800; 593880, 2370856; 593740, 2370944; 593628, 2371041; 593472, 2371137; 593476, 2371209; return to starting point.

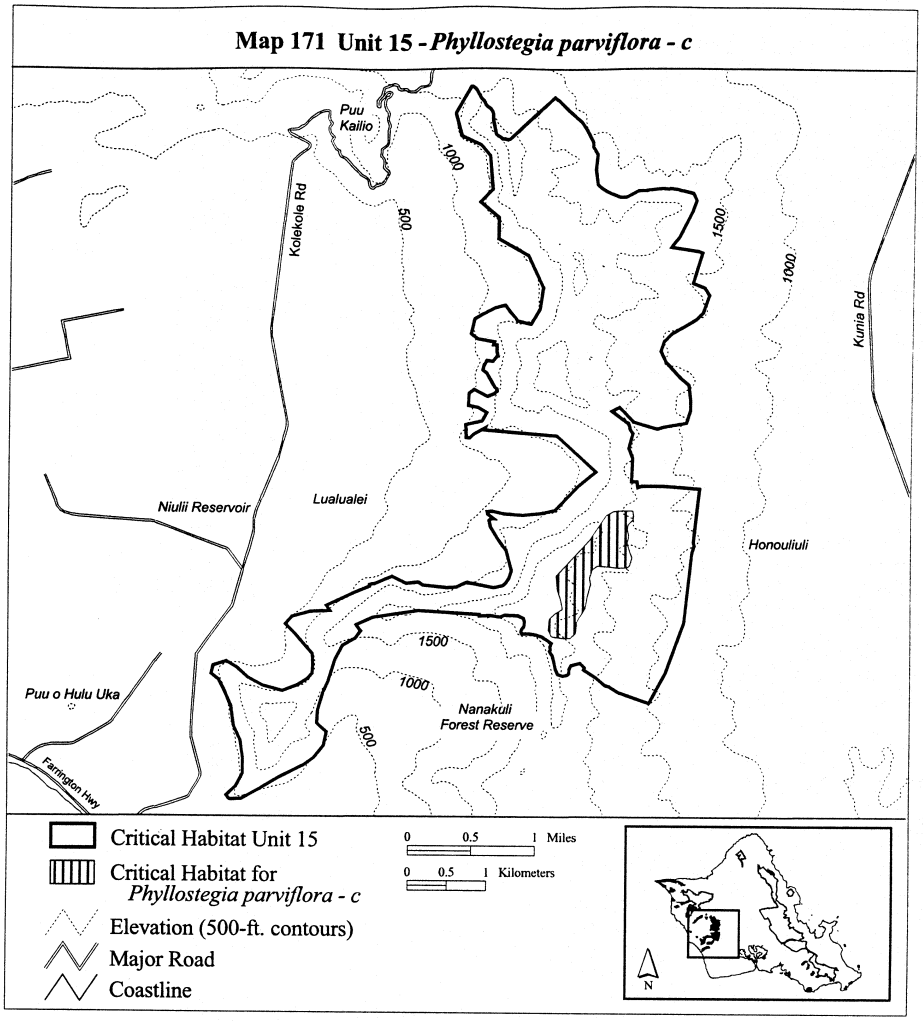
(ii) NOTE: Map 170 follows:



(171) Oahu 15—*Phyllostegia parviflora*—c (69 ha; 171 ac)

(i) Unit consists of the following 38 boundary points: Start at 594092, 2369443; 594192, 2369491; 594309, 2369499; 594421, 2369495; 594433, 2369443; 594429, 2369383; 594365, 2369319; 594357, 2369251; 594369, 2369199; 594369, 2369151; 594349, 2369087; 594377, 2369007; 594393, 2368946; 594413, 2368898; 594381, 2368790; 594349, 2368774; 594241, 2368770; 594108, 2368786; 593976, 2368790; 593912, 2368742; 593884, 2368642; 593892, 2368558; 593848, 2368394; 593824, 2368242; 593752, 2368138; 593720, 2368078; 593712, 2367937; 593640, 2367869; 593540, 2367869; 593408, 2367893; 593360, 2367981; 593376, 2368114; 593448, 2368182; 593540, 2368242; 593512, 2368370; 593472, 2368482; 593456, 2368662; 593880, 2369123; return to starting point.

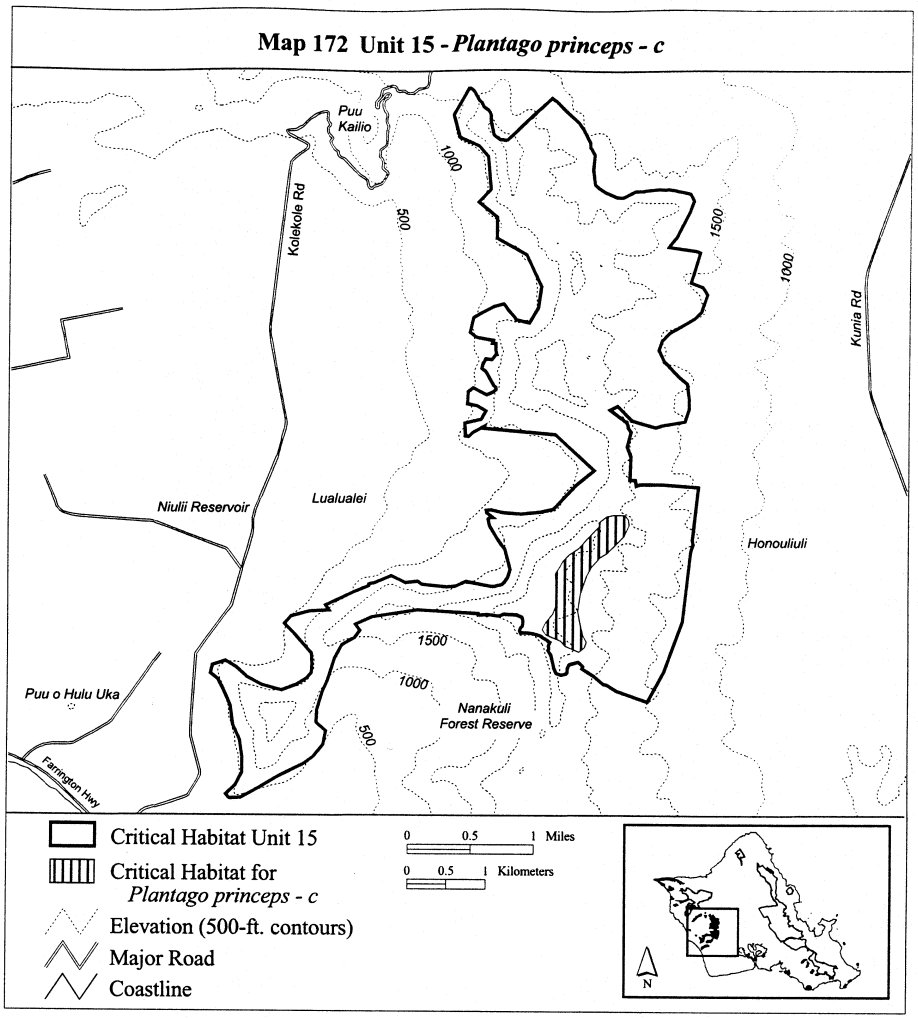
(ii) NOTE: Map 171 follows:



(172) Oahu 15—*Plantago princeps*—c (63 ha; 157 ac)

(i) Unit consists of the following 38 boundary points: Start at 594016, 2369273; 594037, 2369341; 594118, 2369400; 594198, 2369424; 594279, 2369424; 594344, 2369421; 594387, 2369363; 594393, 2369291; 594341, 2369162; 594232, 2369044; 594118, 2368933; 594025, 2368883; 593929, 2368763; 593861, 2368648; 593784, 2368419; 593756, 2368200; 593784, 2368036; 593818, 2367912; 593867, 2367816; 593846, 2367745; 593775, 2367689; 593682, 2367723; 593598, 2367764; 593543, 2367829; 593431, 2367872; 593354, 2367906; 593308, 2367968; 593351, 2368057; 593434, 2368166; 593478, 2368262; 593478, 2368364; 593475, 2368583; 593471, 2368673; 593533, 2368775; 593567, 2368828; 593642, 2368914; 593759, 2368995; 593858, 2369106; return to starting point.

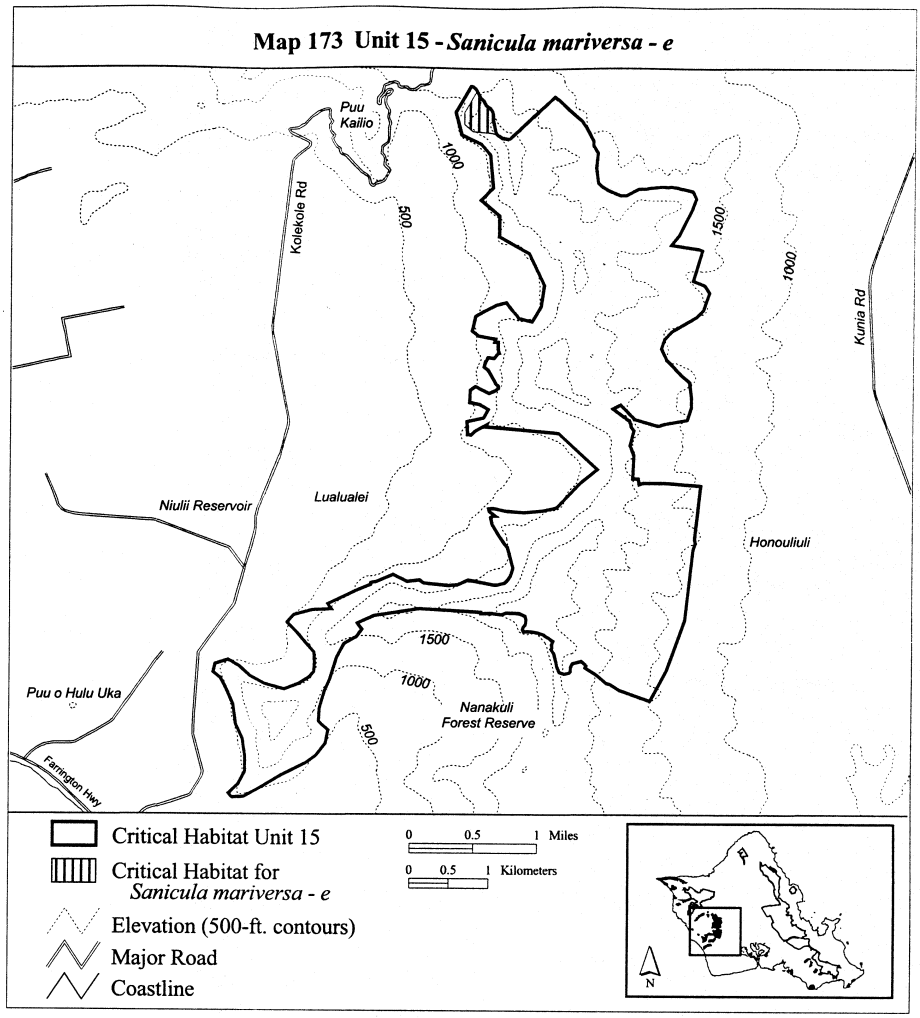
(ii) NOTE: Map 172 follows:



(173) Oahu 15—*Sanicula mariversa*—e (14 ha; 34 ac)

(i) Unit consists of the following 20 boundary points: Start at 592695, 2374210; 592604, 2374252; 592349, 2374270; 592240, 2374361; 592240, 2374507; 592403, 2374783; 592404, 2374781; 592454, 2374691; 592484, 2374661; 592514, 2374601; 592514, 2374600; 592574, 2374561; 592594, 2374531; 592604, 2374492; 592604, 2374422; 592634, 2374282; 592634, 2374281; 592644, 2374251; 592664, 2374231; 592664, 2374230; return to starting point.

(ii) NOTE: Map 173 follows:

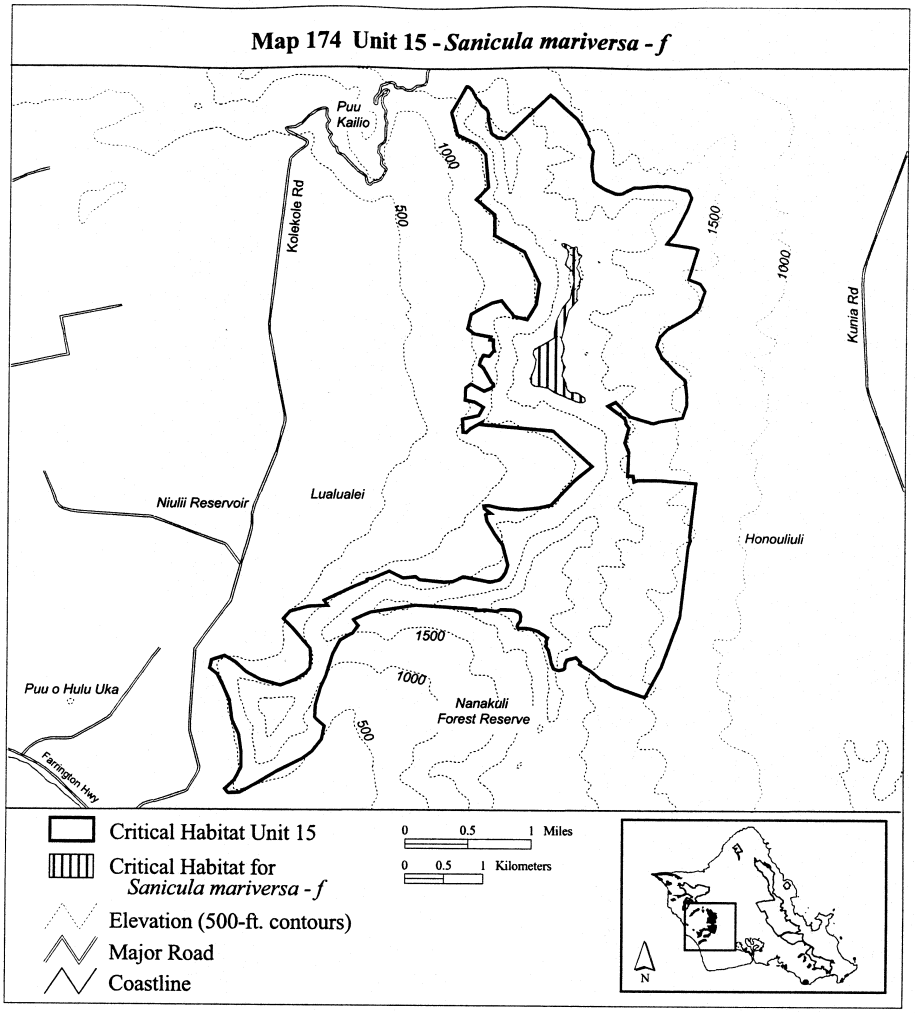


(174) Oahu 15—*Sanicula mariversa*—f (39 ha; 95 ac)

(i) Unit consists of the following 88 boundary points: Start at 593546, 2372831; 593574, 2372838; 593601, 2372826; 593637, 2372808; 593661, 2372788; 593706, 2372786; 593716, 2372799; 593736, 2372799; 593741, 2372781; 593743, 2372754; 593736, 2372736; 593745, 2372714; 593797, 2372686; 593797, 2372677; 593788, 2372657; 593770, 2372624; 593765, 2372606; 593754, 2372567; 593738, 2372527; 593752, 2372490; 593770, 2372472; 593770, 2372448; 593765, 2372430; 593788, 2372409; 593788, 2372385; 593779, 2372367; 593768, 2372346; 593774, 2372305; 593770, 2372269; 593741, 2372252; 593743, 2372202; 593743, 2372145; 593736, 2372130; 593757, 2372124; 593637, 2371983; 593551, 2371623; 593569, 2371575; 593587, 2371509; 593557, 2371388; 593569, 2371329; 593599, 2371272; 593563, 2371168; 593575, 2371141; 593608, 2371065; 593626, 2370993; 593664, 2370949; 593753, 2370940; 593818, 2370905; 593848, 2370875; 593859, 2370834; 593845, 2370819; 593771, 2370819; 593658, 2370866; 593478, 2370940; 593392, 2370996; 593297,

2371014; 593214, 2371020; 593179, 2371056; 593161, 2371121; 593188, 2371186; 593217, 2371260; 593235, 2371363; 593196, 2371426; 593193, 2371473; 593253, 2371515; 593380, 2371589; 593462, 2371639; 593465, 2371731; 593487, 2371858; 593561, 2372024; 593659, 2372143; 593661, 2372157; 593680, 2372252; 593706, 2372360; 593697, 2372385; 593697, 2372411; 593695, 2372429; 593686, 2372439; 593686, 2372477; 593655, 2372508; 593600, 2372556; 593587, 2372565; 593601, 2372610; 593628, 2372677; 593628, 2372702; 593616, 2372761; 593556, 2372804; 593546, 2372820; return to starting point.

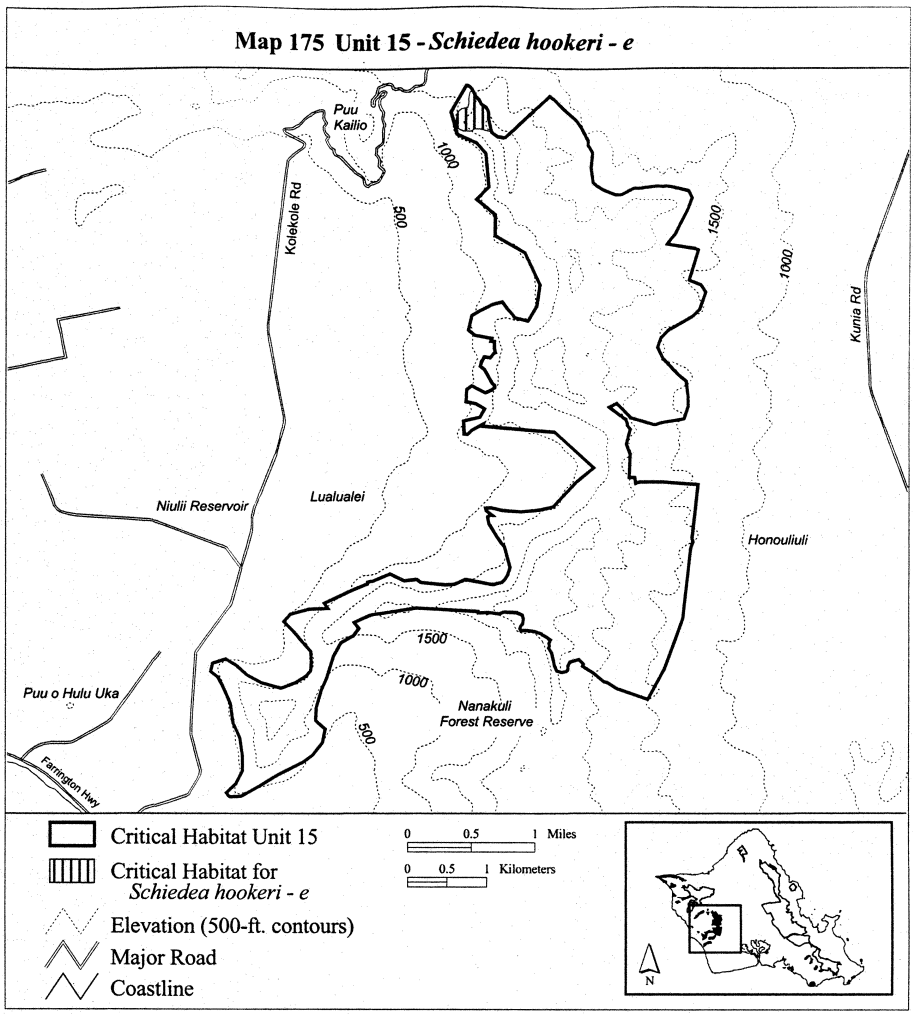
(ii) NOTE: Map 174 follows:



(175) Oahu 15—*Schiedea hookeri*—e (14 ha; 34 ac)

(i) Unit consists of the following 29 boundary points: Start at 592636, 2374256; 592600, 2374263; 592497, 2374291; 592427, 2374291; 592390, 2374263; 592295, 2374263; 592237, 2374288; 592207, 2374313; 592190, 2374366; 592195, 2374413; 592217, 2374505; 592265, 2374548; 592347, 2374563; 592357, 2374613; 592360, 2374690; 592367, 2374755; 592401, 2374785; 592404, 2374781; 592454, 2374691; 592484, 2374661; 592514, 2374601; 592514, 2374600; 592574, 2374561; 592594, 2374531; 592604, 2374492; 592604, 2374422; 592634, 2374282; 592634, 2374281; 592641, 2374259; return to starting point.

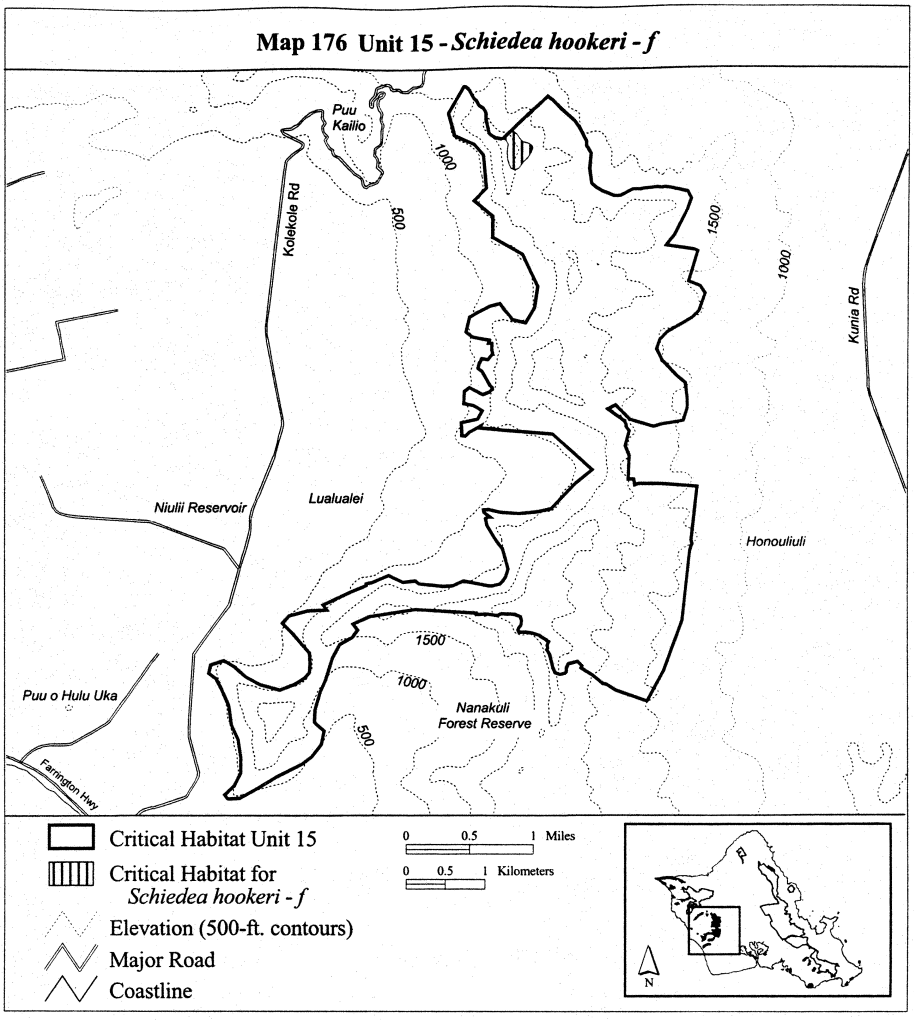
(ii) NOTE: Map 175 follows:



(176) Oahu 15—*Schiedea hookeri*—f (10 ha; 25 ac)

(i) Unit consists of the following 21 boundary points: Start at 592828, 2374186; 592930, 2374282; 592941, 2374283; 592999, 2374237; 593025, 2374195; 593073, 2374142; 593143, 2374125; 593188, 2374093; 593193, 2374058; 593169, 2373997; 593144, 2373950; 593081, 2373888; 593023, 2373812; 592974, 2373787; 592923, 2373813; 592896, 2373863; 592877, 2373923; 592870, 2374005; 592876, 2374066; 592887, 2374114; 592868, 2374150; return to starting point.

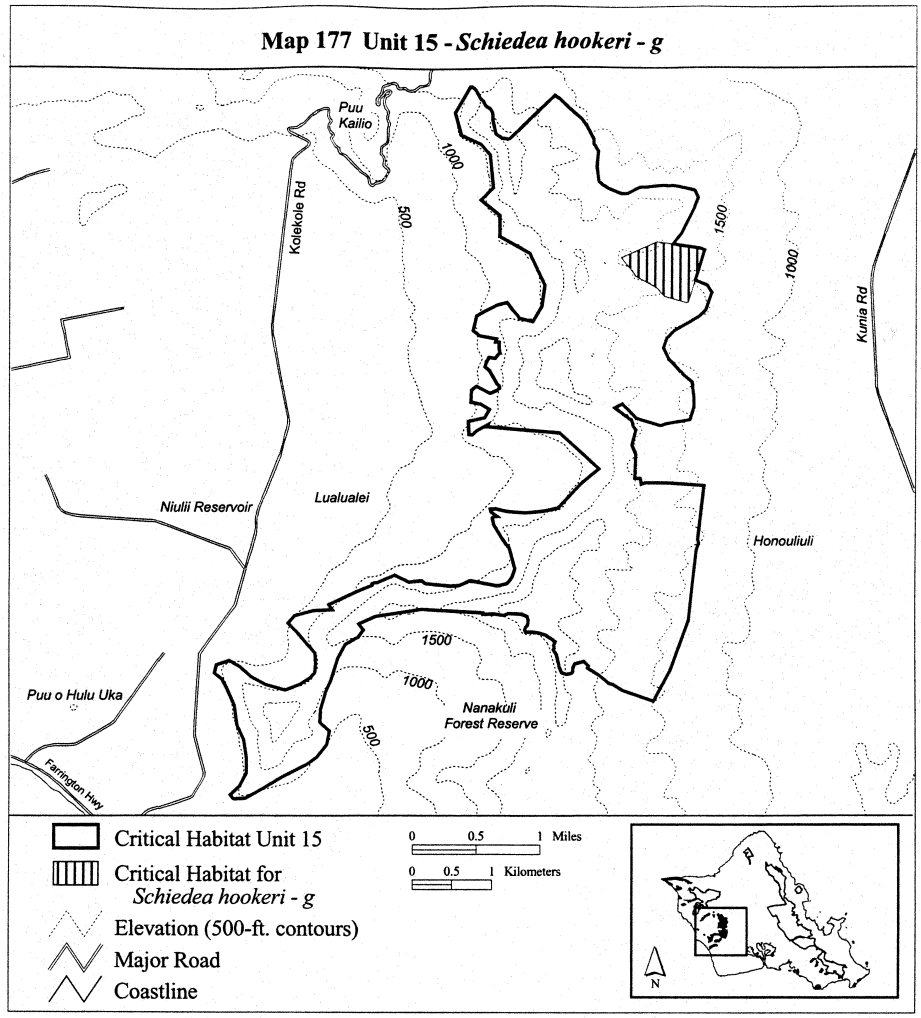
(ii) NOTE: Map 176 follows:



(177) Oahu 15—*Schiedea hookeri*—g (83 ha; 204 ac)

(i) Unit consists of the following 50 boundary points: Start at 593392, 2372040; 593458, 2372066; 593544, 2372037; 593584, 2372015; 593538, 2371923; 593524, 2371826; 593515, 2371729; 593510, 2371589; 593492, 2371512; 593430, 2371452; 593375, 2371426; 593367, 2371340; 593338, 2371257; 593295, 2371143; 593255, 2371034; 593161, 2370968; 593035, 2370917; 592927, 2370846; 592876, 2370774; 592830, 2370717; 592747, 2370663; 592721, 2370689; 592684, 2370757; 592607, 2370806; 592527, 2370848; 592530, 2370888; 592584, 2370934; 592661, 2370988; 592707, 2371048; 592681, 2371117; 592616, 2371214; 592573, 2371308; 592656, 2371348; 592687, 2371391; 592713, 2371460; 592764, 2371511; 592793, 2371560; 592756, 2371608; 592627, 2371654; 592570, 2371725; 592453, 2371805; 592530, 2371908; 592607, 2371959; 592684, 2371994; 592770, 2371939; 592910, 2371815; 593064, 2371778; 593121, 2371798; 593224, 2371883; 593287, 2371980; return to starting point.

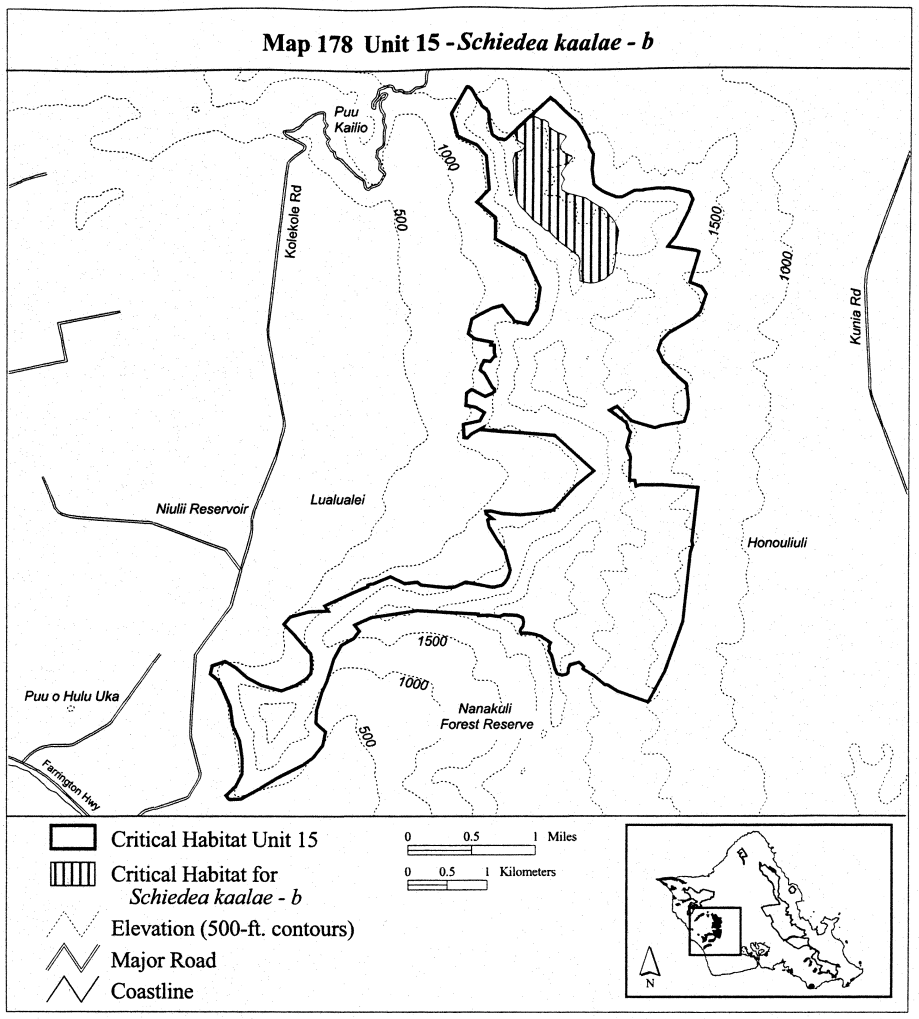
(ii) NOTE: Map 177 follows:



(178) Oahu 15—*Schiedea kaalae*—b (134 ha; 331 ac)

(i) Unit consists of the following 92 boundary points: Start at 593155, 2374498; 593197, 2374469; 593237, 2374448; 593260, 2374433; 593298, 2374434; 593349, 2374409; 593359, 2374380; 593356, 2374354; 593410, 2374316; 593474, 2374276; 593566, 2374246; 593587, 2374226; 593564, 2374188; 593532, 2374147; 593515, 2374109; 593514, 2374080; 593538, 2374043; 593550, 2374022; 593552, 2374019; 593553, 2374019; 593558, 2374019; 593580, 2374010; 593631, 2373992; 593621, 2373992; 593651, 2373980; 593667, 2373955; 593643, 2373929; 593588, 2373864; 593537, 2373789; 593523, 2373764; 593524, 2373745; 593549, 2373710; 593562, 2373680; 593552, 2373651; 593527, 2373602; 593531, 2373564; 593534, 2373551; 593593, 2373522; 593617, 2373497; 593618, 2373497; 593606, 2373516; 593837, 2373458; 593992, 2373364; 594073, 2373324; 594201, 2373169; 594259, 2373053; 594228, 2372875; 594210, 2372644; 594179, 2372515; 594081, 2372431; 593988, 2372395; 593908, 2372382; 593766, 2372408; 593766, 2372471; 593757, 2372542; 593761, 2372604; 593770, 2372657; 593761, 2372706; 593721, 2372742; 593592, 2372849; 593494, 2372915; 593383, 2373022; 593393, 2373030; 593327, 2373053; 593260, 2373115; 593172, 2373178; 593097, 2373261; 593010, 2373344; 592980, 2373386; 592951, 2373464; 592930, 2373616; 592925, 2373718; 592916, 2373835; 592916, 2373861; 592910, 2373919; 592931, 2373982; 592927, 2373982; 592933, 2374009; 592939, 2374018; 592983, 2374030; 592987, 2374030; 593030, 2374053; 593051, 2374081; 593053, 2374113; 593025, 2374136; 593001, 2374151; 592962, 2374170; 592949, 2374200; 592943, 2374227; 592931, 2374250; 592930, 2374262; 592918, 2374276; return to starting point.

(ii) NOTE: Map 178 follows:

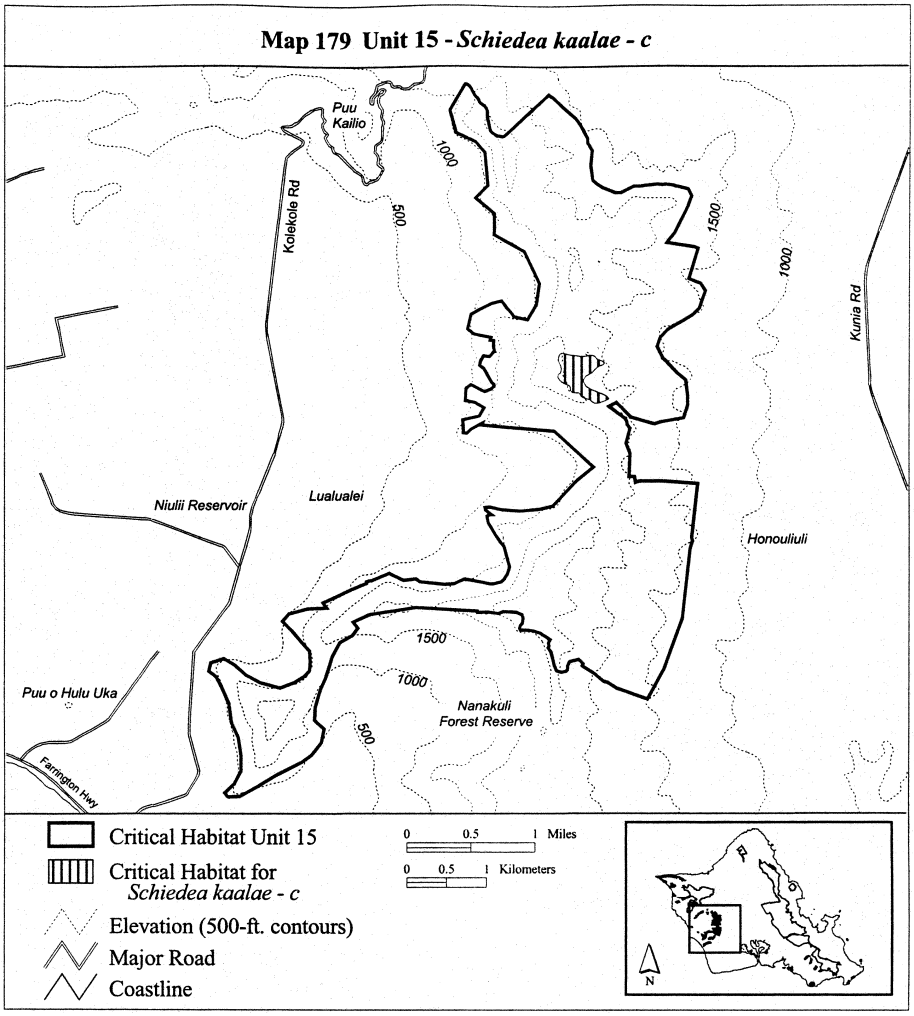


(179) Oahu 15—*Schiedea kaalae*—c (22 ha; 53 ac)

(i) Unit consists of the following 58 boundary points: Start at 594140, 2370857; 594018, 2370809; 593969, 2370810; 593929, 2370835; 593909, 2370861; 593885, 2370861; 593843, 2370873; 593800, 2370893; 593783, 2370921; 593765, 2370938; 593724, 2370940; 593672, 2370956; 593660, 2370978; 593658, 2370997; 593656, 2371025; 593641, 2371037; 593598, 2371051; 593549, 2371080; 593515, 2371111; 593501, 2371135; 593499, 2371158; 593516, 2371180; 593535, 2371190; 593543, 2371242; 593534, 2371288; 593499, 2371363; 593504, 2371360; 593504, 2371387; 593520, 2371421; 593542, 2371444; 593561, 2371442; 593592, 2371435; 593663, 2371418; 593696, 2371415; 593739, 2371413; 593779, 2371407; 593838, 2371407; 593904, 2371415; 593945, 2371417; 593976, 2371396; 593988, 2371370; 594016, 2371357; 594059, 2371348; 594087, 2371331; 594083, 2371312; 594066, 2371294; 594024, 2371277; 593984, 2371251; 593935, 2371193; 593855, 2371158; 593823, 2371100; 593823, 2371087; 593857, 2371024; 593926, 2370988; 593995, 2370954; 594080,

2370919; 594128, 2370899; 594149, 2370867; return to starting point.

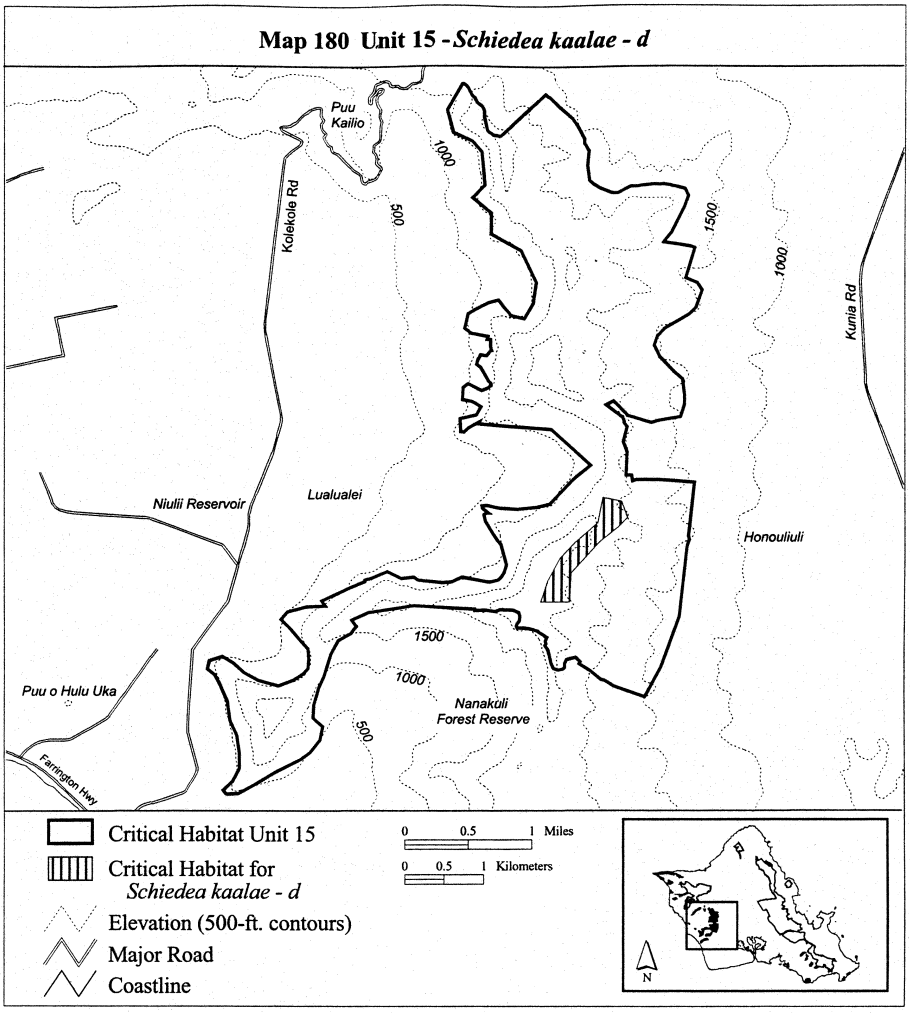
(ii) NOTE: Map 179 follows:



(180) Oahu 15—*Schiedea kaalae*—d (39 ha; 97 ac)

(i) Unit consists of the following 12 boundary points: Start at 594112, 2369585; 594345, 2369544; 594420, 2369336; 594320, 2369227; 594079, 2369036; 593713, 2368628; 593688, 2368262; 593330, 2368262; 593413, 2368512; 593571, 2368811; 593746, 2369003; 594045, 2369261; return to starting point.

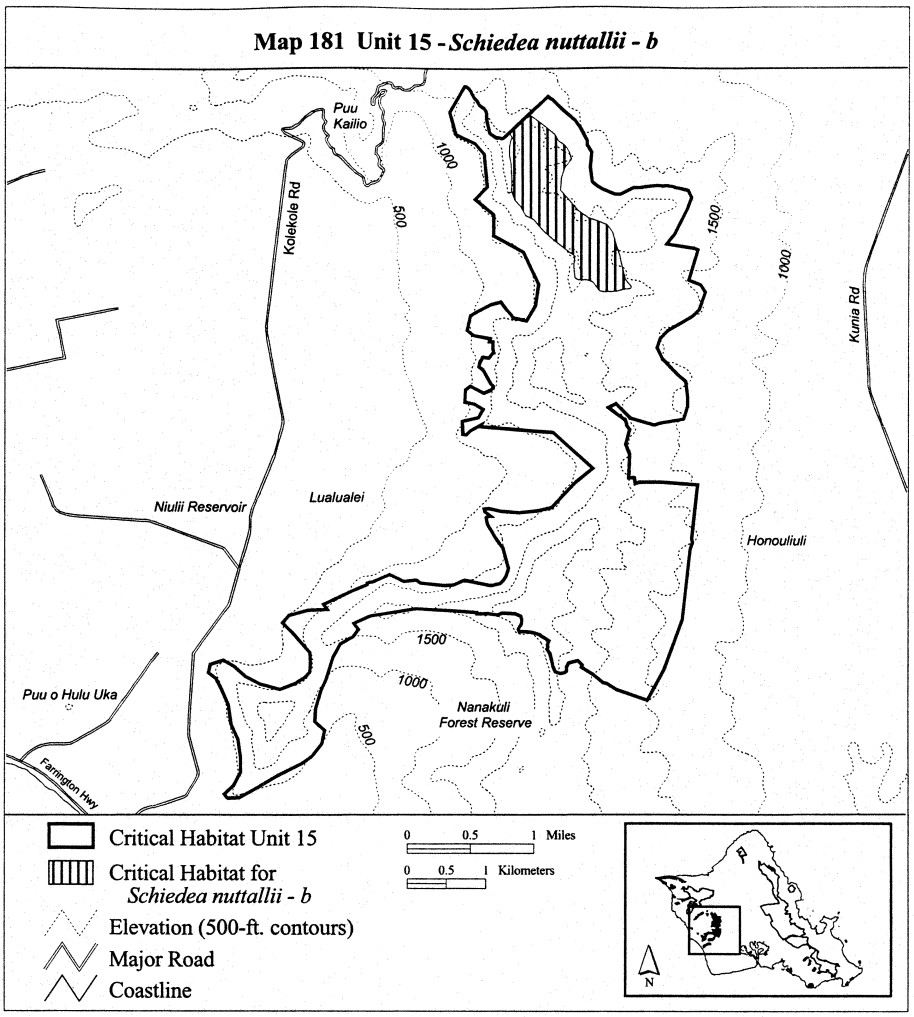
(ii) NOTE: Map 180 follows:



(181) Oahu 15—*Schiedea nuttallii*—b (141 ha; 347 ac)

(i) Unit consists of the following 53 boundary points: Start at 593145, 2374489; 593357, 2374332; 593477, 2374233; 593520, 2374152; 593601, 2374092; 593648, 2374020; 593678, 2373913; 593588, 2373793; 593554, 2373673; 593537, 2373519; 593610, 2373442; 593763, 2373267; 593896, 2373169; 594003, 2373135; 594131, 2373083; 594191, 2372994; 594229, 2372861; 594285, 2372694; 594306, 2372596; 594353, 2372399; 594392, 2372356; 594435, 2372304; 594422, 2372279; 594345, 2372275; 594242, 2372246; 594088, 2372237; 594037, 2372250; 593981, 2372314; 593947, 2372361; 593883, 2372391; 593763, 2372387; 593725, 2372412; 593716, 2372476; 593712, 2372545; 593708, 2372592; 593721, 2372690; 593639, 2372746; 593468, 2372878; 593336, 2372994; 593268, 2373071; 593199, 2373143; 593101, 2373199; 593028, 2373314; 592960, 2373395; 592921, 2373498; 592921, 2373673; 592917, 2373853; 592900, 2373960; 592900, 2374071; 592908, 2374144; 592926, 2374191; 592904, 2374246; 592904, 2374263; return to starting point.

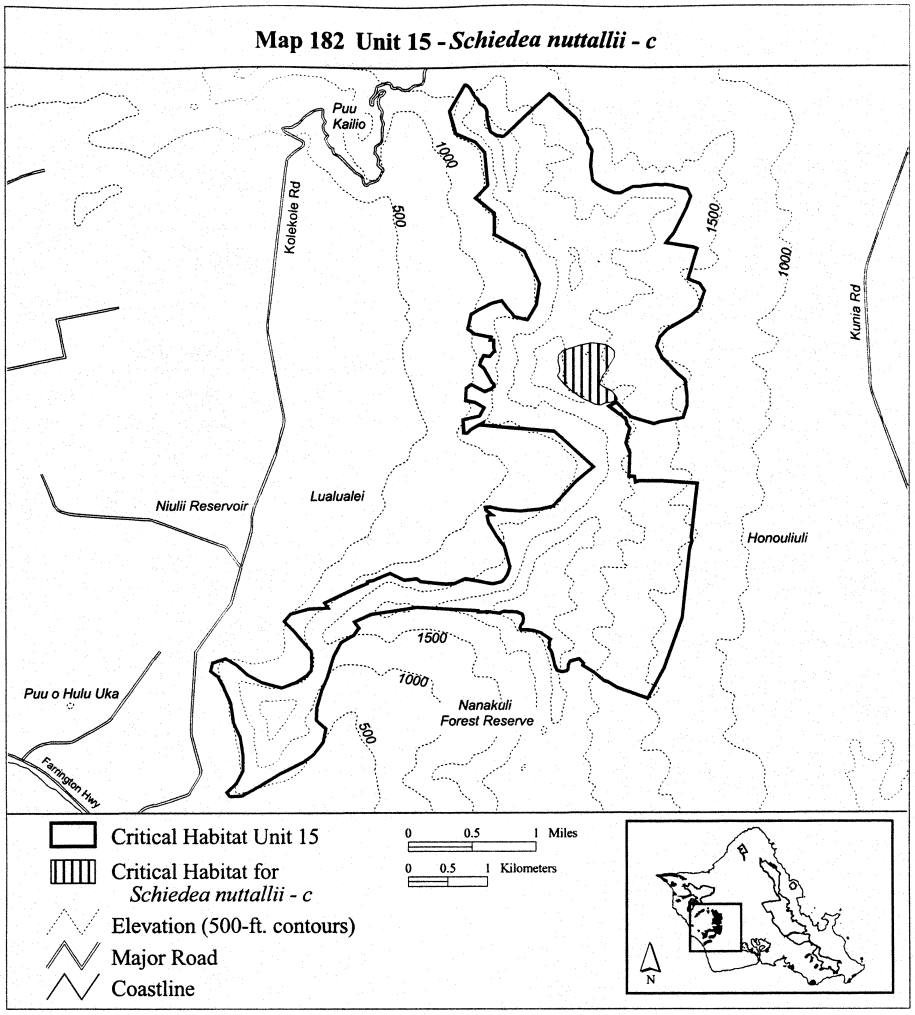
(ii) NOTE: Map 181 follows:



(182) Oahu 15—*Schiedea nuttallii*—c (41 ha; 102 ac)

(i) Unit consists of the following 30 boundary points: Start at 593505, 2371417; 593569, 2371478; 593661, 2371509; 593771, 2371547; 593929, 2371573; 594044, 2371566; 594137, 2371543; 594180, 2371508; 594217, 2371474; 594220, 2371393; 594174, 2371315; 594119, 2371211; 594067, 2371148; 594030, 2371056; 594076, 2371015; 594177, 2370963; 594235, 2370900; 594255, 2370854; 594223, 2370837; 594180, 2370822; 594111, 2370814; 594047, 2370779; 593987, 2370791; 593805, 2370871; 593710, 2370940; 593589, 2371033; 593491, 2371154; 593520, 2371200; 593520, 2371257; 593502, 2371339; return to starting point.

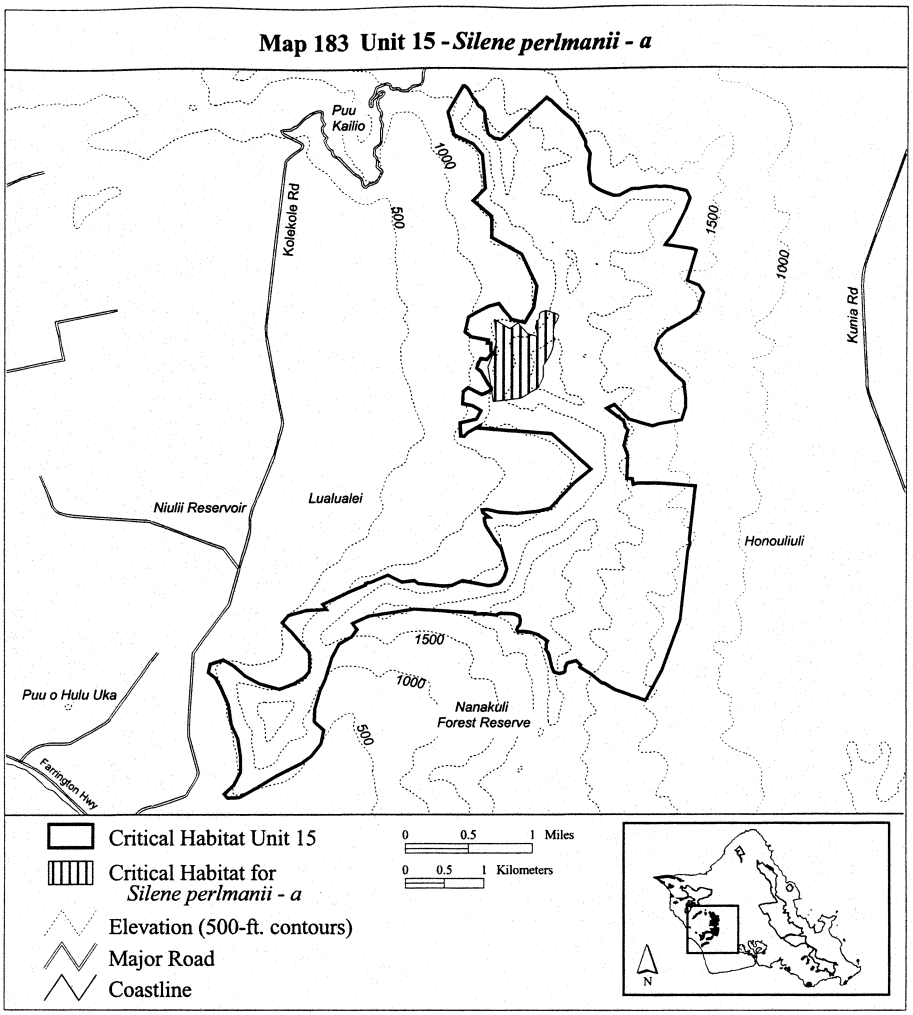
(ii) NOTE: Map 182 follows:



(183) Oahu 15—*Silene perlmanii*—a (65 ha; 162 ac)

(i) Unit consists of the following 50 boundary points: Start at 593271, 2371708; 593264, 2371736; 593259, 2371770; 593249, 2371796; 593252, 2371828; 593261, 2371847; 593266, 2371861; 593256, 2371887; 593283, 2371902; 593300, 2371921; 593299, 2371940; 593299, 2371979; 593324, 2372000; 593386, 2372020; 593443, 2372000; 593496, 2371990; 593534, 2371971; 593542, 2371950; 593542, 2371936; 593532, 2371924; 593527, 2371907; 593518, 2371887; 593506, 2371863; 593496, 2371844; 593487, 2371828; 593474, 2371784; 593472, 2371737; 593475, 2371694; 593489, 2371660; 593489, 2371639; 593477, 2371603; 593472, 2371572; 593460, 2371521; 593451, 2371492; 593436, 2371461; 593427, 2371444; 593419, 2371416; 593351, 2371318; 593347, 2371171; 593289, 2371041; 593074, 2370911; 592716, 2370866; 592649, 2371300; 592716, 2371488; 592760, 2371627; 592734, 2371905; 592926, 2371794; 593029, 2371861; 593153, 2371727; 593274, 2371691; return to starting point.

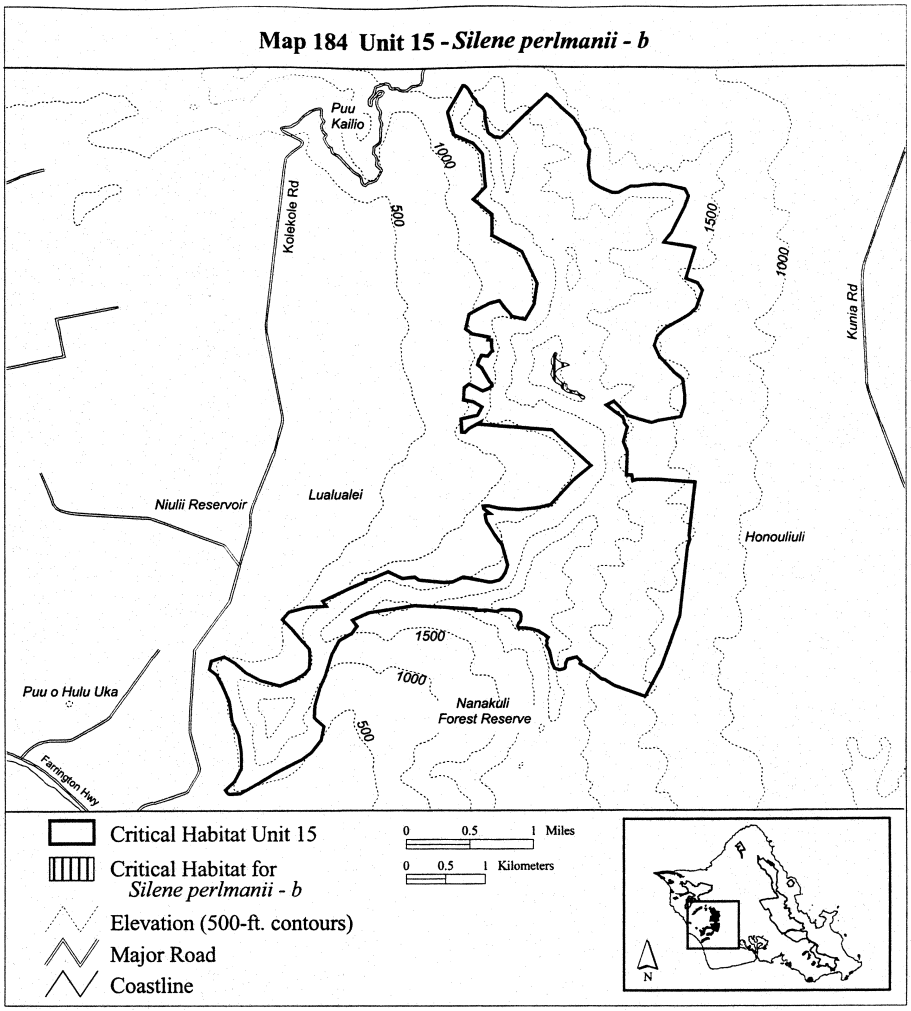
(ii) NOTE: Map 183 follows:



(184) Oahu 15—*Silene perlmanii*—b (5 ha; 12 ac)

(i) Unit consists of the following 53 boundary points: Start at 593517, 2371427; 593498, 2371382; 593504, 2371358; 593525, 2371344; 593570, 2371318; 593621, 2371309; 593669, 2371283; 593669, 2371271; 593649, 2371269; 593609, 2371257; 593559, 2371240; 593518, 2371216; 593494, 2371168; 593511, 2371122; 593544, 2371086; 593592, 2371048; 593644, 2371038; 593645, 2371017; 593649, 2370990; 593669, 2370967; 593705, 2370954; 593745, 2370947; 593772, 2370947; 593788, 2370926; 593824, 2370905; 593874, 2370871; 593872, 2370854; 593850, 2370837; 593832, 2370851; 593810, 2370868; 593791, 2370888; 593771, 2370902; 593726, 2370914; 593692, 2370923; 593647, 2370936; 593601, 2370964; 593578, 2370983; 593570, 2371005; 593565, 2371026; 593515, 2371051; 593474, 2371086; 593460, 2371118; 593438, 2371165; 593451, 2371206; 593463, 2371237; 593463, 2371259; 593463, 2371280; 593444, 2371297; 593441, 2371316; 593443, 2371348; 593460, 2371387; 593472, 2371418; 593496, 2371440; return to starting point.

(ii) NOTE: Map 184 follows:

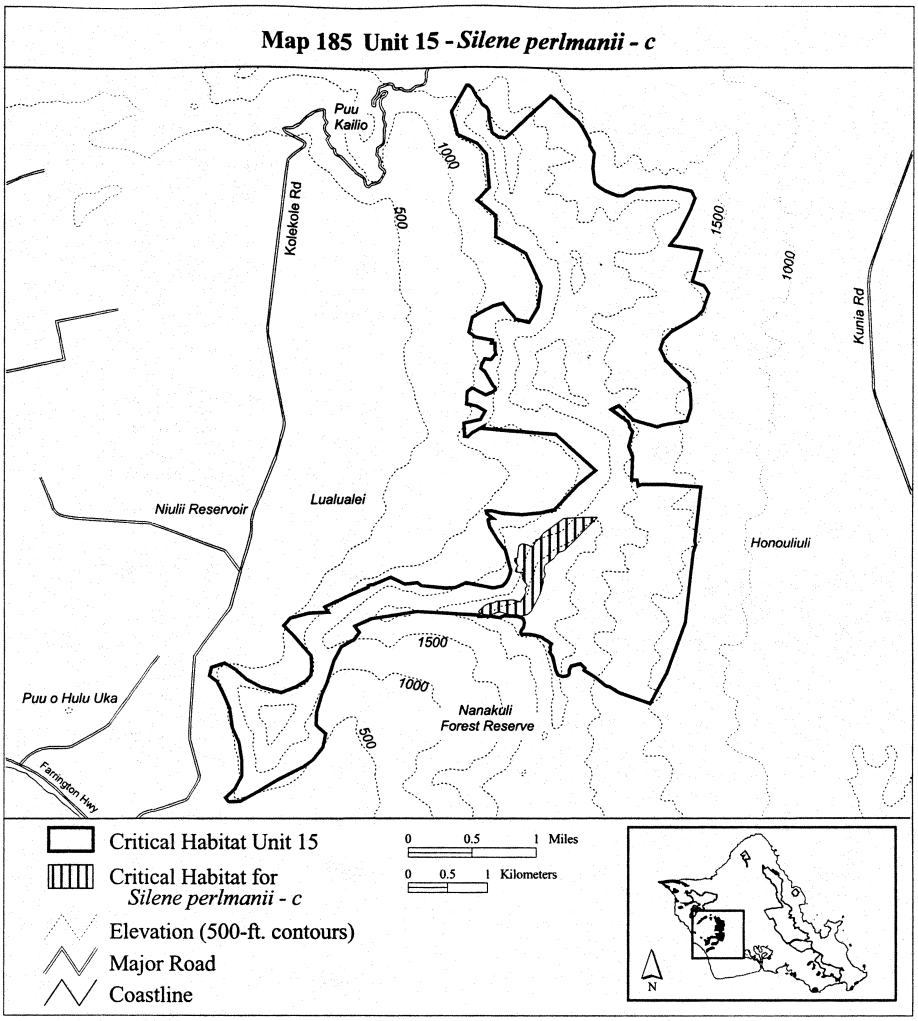


(185) Oahu 15—*Silene perlmanii*—c (50 ha; 124 ac)

(i) Unit consists of the following 84 boundary points: Start at 593209, 2369122; 593244, 2369132; 593296, 2369202; 593559, 2369391; 593796, 2369405; 593974, 2369402; 593563, 2368985; 593500, 2368964; 593468, 2368930; 593436, 2368888; 593385, 2368847; 593335, 2368813; 593316, 2368786; 593310, 2368732; 593320, 2368691; 593320, 2368659; 593296, 2368615; 593296, 2368574; 593276, 2368506; 593262, 2368431; 593215, 2368344; 593181, 2368281; 593157, 2368227; 593112, 2368184; 593064, 2368166; 593019, 2368162; 592969, 2368162; 592892, 2368168; 592813, 2368196; 592761, 2368206; 592712, 2368204; 592666, 2368186; 592603, 2368172; 592538, 2368184; 592486, 2368208; 592518, 2368245; 592563, 2368285; 592603, 2368307; 592639, 2368326; 592676, 2368326; 592716, 2368346; 592751, 2368348; 592773, 2368350;

592821, 2368356; 592892, 2368358; 592934, 2368364; 592967, 2368350; 593019, 2368336; 593031, 2368366; 593056, 2368405; 593074, 2368437; 593086, 2368457; 593076, 2368485; 593076, 2368504; 593096, 2368524; 593096, 2368560; 593060, 2368592; 593038, 2368625; 593044, 2368651; 593029, 2368669; 593038, 2368681; 593052, 2368700; 593029, 2368710; 592993, 2368710; 592971, 2368710; 592945, 2368726; 592961, 2368758; 592973, 2368780; 592985, 2368795; 592953, 2368823; 592936, 2368851; 592943, 2368885; 592977, 2368894; 592977, 2368910; 592977, 2368948; 592983, 2368993; 592989, 2369041; 593025, 2369063; 593058, 2369065; 593108, 2369055; 593145, 2369037; 593163, 2369037; 593179, 2369041; 593193, 2369094; return to starting point.

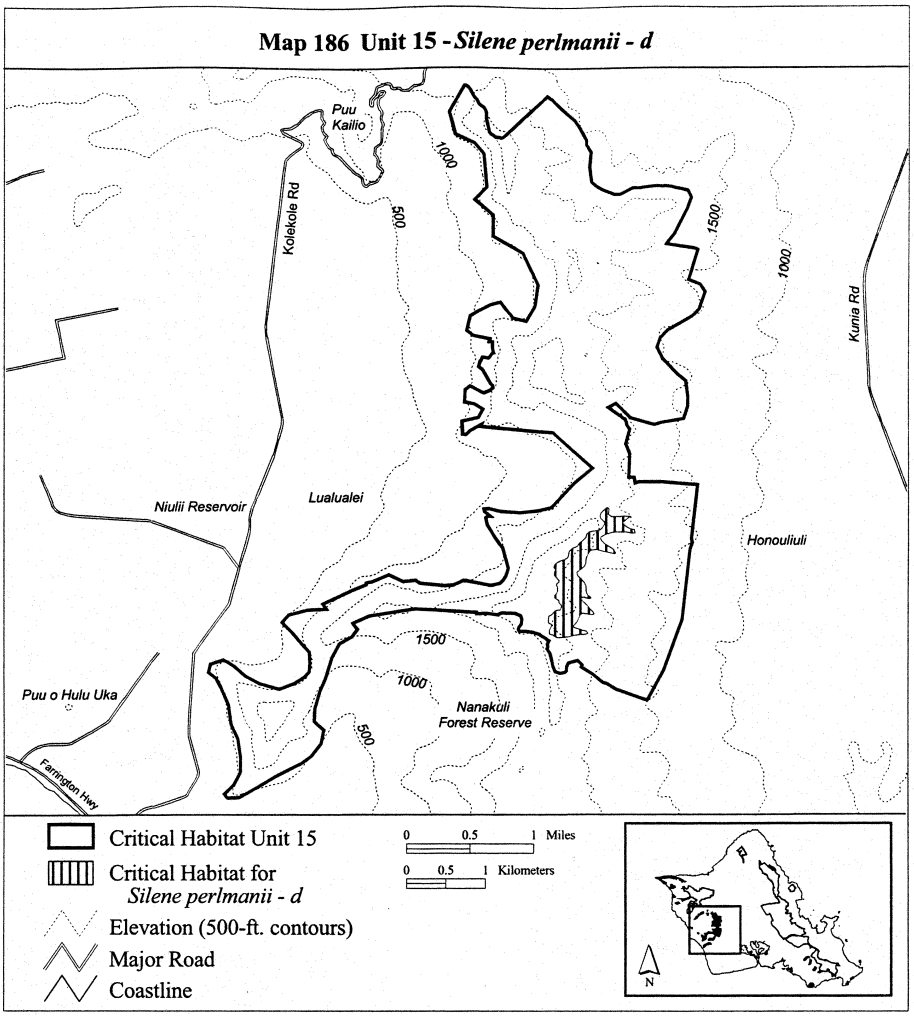
(ii) NOTE: Map 185 follows:



(186) Oahu 15—*Silene perlmanii*—d (52 ha; 130 ac)

(i) Unit consists of the following 143 boundary points: Start at 593997, 2368967; 593925, 2368950; 593880, 2368875; 593872, 2368831; 593866, 2368782; 593848, 2368750; 593810, 2368714; 593753, 2368675; 593763, 2368643; 593781, 2368617; 593816, 2368586; 593850, 2368546; 593866, 2368504; 593878, 2368427; 593896, 2368388; 593929, 2368362; 593931, 2368344; 593902, 2368340; 593846, 2368358; 593805, 2368348; 593816, 2368326; 593850, 2368291; 593894, 2368255; 593915, 2368223; 593959, 2368178; 593969, 2368146; 593953, 2368136; 593900, 2368142; 593836, 2368156; 593808, 2368146; 593783, 2368097; 593763, 2368051; 593727, 2368014; 593717, 2367986; 593747, 2367966; 593791, 2367956; 593826, 2367942; 593880, 2367932; 593896, 2367903; 593880, 2367893; 593785, 2367885; 593727, 2367879; 593660, 2367859; 593605, 2367853; 593514, 2367847; 593454, 2367881; 593413, 2367899; 593413, 2367934; 593428, 2367980; 593446, 2368010; 593401, 2368037; 593397, 2368077; 593403, 2368122; 593438, 2368132; 593456, 2368158; 593478, 2368174; 593506, 2368194; 593551, 2368194; 593563, 2368229; 593567, 2368261; 593529, 2368289; 593525, 2368322; 593476, 2368356; 593478, 2368374; 593500, 2368407; 593516, 2368425; 593516, 2368459; 593516, 2368489; 593502, 2368508; 593502, 2368528; 593533, 2368552; 593525, 2368574; 593502, 2368609; 593472, 2368641; 593478, 2368677; 593492, 2368708; 593470, 2368738; 593480, 2368774; 593512, 2368797; 593567, 2368825; 593611, 2368839; 593644, 2368863; 593656, 2368898; 593658, 2368938; 593702, 2368982; 593751, 2368997; 593771, 2369015; 593778, 2369030; 593775, 2369031; 593779, 2369035; 593781, 2369039; 593783, 2369038; 593818, 2369069; 593860, 2369110; 593878, 2369138; 593878, 2369156; 593919, 2369185; 593989, 2369197; 594056, 2369209; 594080, 2369247; 594099, 2369276; 594101, 2369308; 594082, 2369328; 594052, 2369356; 594044, 2369381; 594056, 2369413; 594109, 2369472; 594133, 2369494; 594157, 2369476; 594155, 2369443; 594151, 2369409; 594185, 2369379; 594240, 2369375; 594299, 2369377; 594347, 2369383; 594424, 2369377; 594383, 2369346; 594351, 2369320; 594329, 2369294; 594359, 2369263; 594400, 2369231; 594446, 2369217; 594478, 2369209; 594480, 2369187; 594483, 2369170; 594434, 2369170; 594386, 2369179; 594339, 2369179; 594305, 2369179; 594228, 2369183; 594189, 2369174; 594149, 2369162; 594111, 2369146; 594082, 2369138; 594052, 2369120; 594058, 2369077; 594113, 2369033; 594202, 2368978; 594224, 2368952; 594246, 2368914; 594226, 2368908; 594183, 2368918; 594113, 2368934; return to starting point.

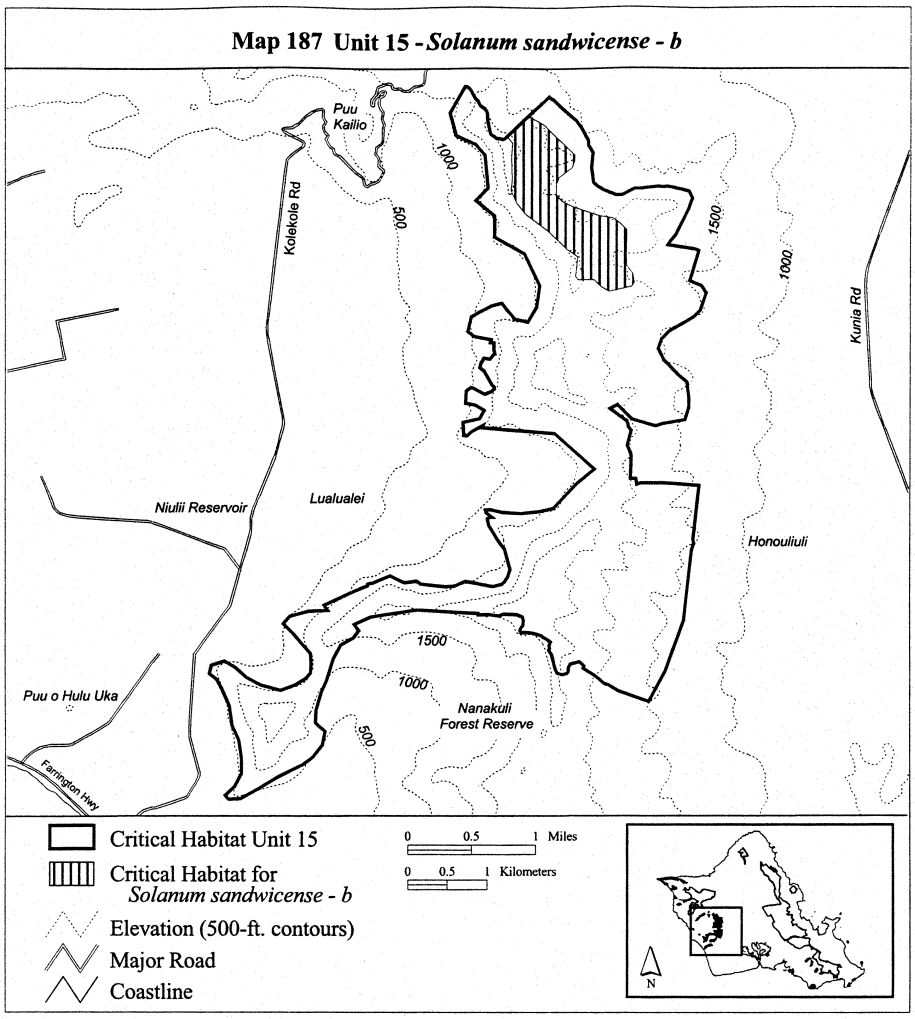
(ii) NOTE: Map 186 follows:



(187) Oahu 15—*Solanum sandwicense*—b (146 ha; 361 ac)

(i) Unit consists of the following 43 boundary points: Start at 593124, 2374469; 593130, 2374466; 593319, 2374367; 593704, 2373986; 593704, 2373909; 593670, 2373819; 593520, 2373703; 593477, 2373609; 593477, 2373480; 593550, 2373394; 593692, 2373322; 593889, 2373253; 594004, 2373206; 594184, 2373180; 594261, 2373120; 594356, 2373030; 594356, 2372910; 594351, 2372825; 594351, 2372705; 594351, 2372589; 594433, 2372481; 594454, 2372361; 594424, 2372318; 594223, 2372276; 594133, 2372255; 594039, 2372315; 593987, 2372358; 593953, 2372400; 593902, 2372405; 593747, 2372405; 593717, 2372447; 593726, 2372555; 593739, 2372696; 593614, 2372782; 593366, 2373022; 593237, 2373120; 593087, 2373232; 592972, 2373373; 592903, 2373531; 592916, 2373664; 592912, 2373960; 592925, 2374131; 592854, 2374216; return to starting point.

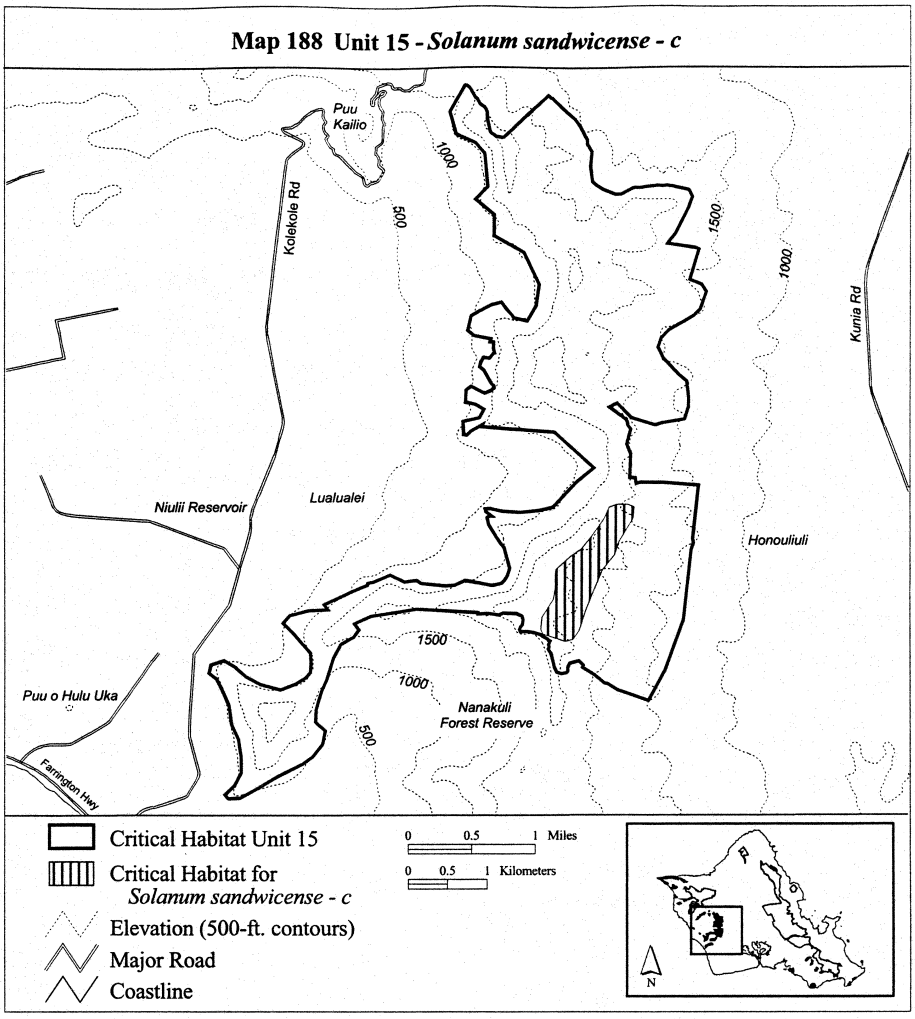
(ii) NOTE: Map 187 follows:



(188) Oahu 15—*Solanum sandwicense*—c (78 ha; 193 ac)

(i) Unit consists of the following 26 boundary points: Start at 593318, 2367895; 593284, 2367952; 593303, 2368105; 593442, 2368331; 593466, 2368474; 593466, 2368637; 593476, 2368709; 593667, 2368881; 593801, 2368972; 593931, 2369140; 594079, 2369346; 594146, 2369499; 594247, 2369538; 594381, 2369538; 594458, 2369504; 594448, 2369360; 594367, 2369217; 594266, 2369063; 594209, 2368896; 594060, 2368704; 593945, 2368431; 593859, 2368206; 593768, 2367933; 593696, 2367832; 593595, 2367799; 593495, 2367842; return to starting point.

(ii) NOTE: Map 188 follows:

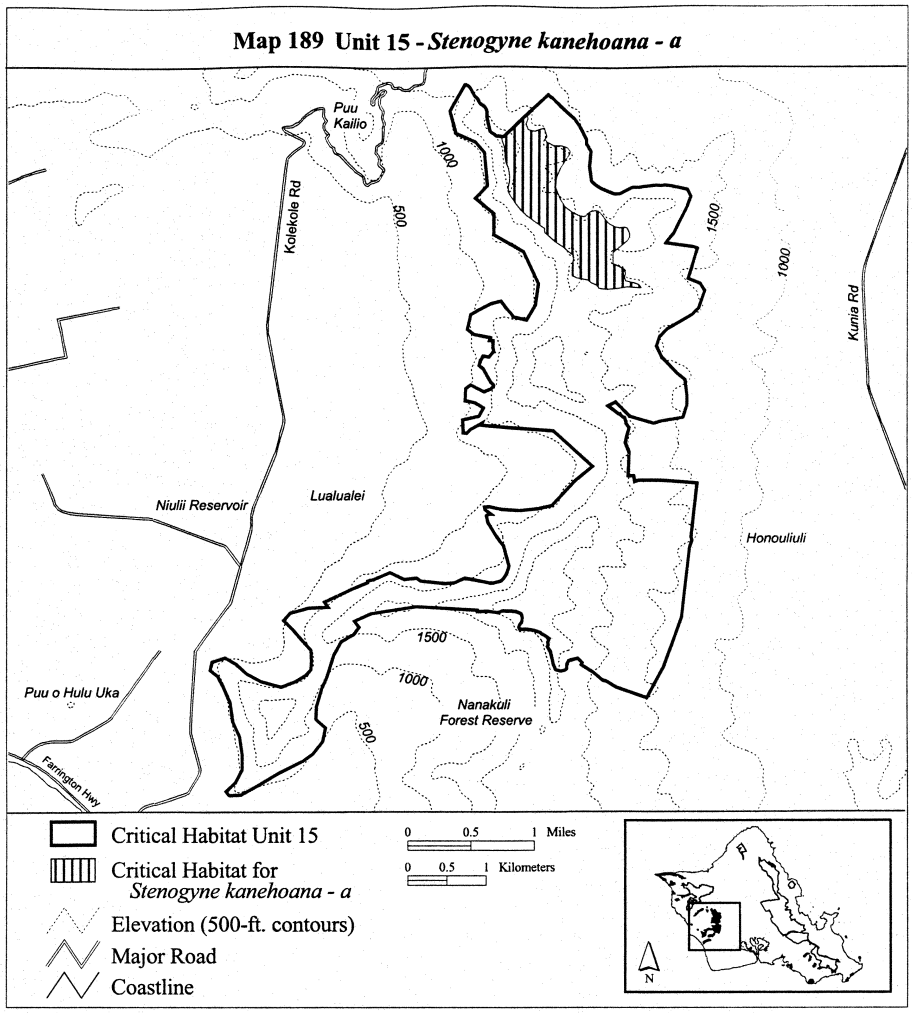


(189) Oahu 15—*Stenogyne kanehoana*—a (140 ha; 346 ac)

(i) Unit consists of the following 91 boundary points: Start at 593105, 2374451; 593128, 2374409; 593098, 2374338; 593128, 2374268; 593215, 2374248; 593282, 2374278; 593336, 2374291; 593353, 2374224; 593370, 2374187; 593360, 2374171; 593339, 2374154; 593371, 2374111; 593383, 2374110; 593443, 2374080; 593480, 2374073; 593558, 2374073; 593631, 2374047; 593665, 2374003; 593652, 2373949; 593548, 2373788; 593494, 2373671; 593480, 2373546; 593544, 2373392; 593605, 2373301; 593688, 2373241; 593776, 2373197; 593819, 2373181; 593863, 2373181; 593890, 2373214; 593930, 2373244; 594004, 2373258; 594048, 2373231; 594108, 2373150; 594165, 2373090; 594235, 2373050; 594293, 2373040; 594346, 2373046; 594390, 2373036; 594423, 2372963; 594423, 2372919; 594397, 2372872; 594296, 2372791; 594209, 2372721; 594209, 2372657; 594209, 2372580; 594266, 2372556; 594350, 2372513; 594370, 2372462; 594356, 2372402; 594373, 2372362; 594470, 2372341; 594544, 2372314; 594568, 2372277; 594544, 2372277; 594397, 2372290; 594266,

2372268; 594142, 2372258; 594041, 2372268; 594004, 2372311; 593940, 2372338; 593893, 2372379; 593756, 2372405; 593688, 2372432; 593692, 2372533; 593712, 2372640; 593709, 2372687; 593578, 2372795; 593480, 2372862; 593343, 2372983; 593343, 2373030; 593205, 2373117; 593115, 2373191; 593041, 2373254; 592953, 2373362; 592886, 2373466; 592873, 2373533; 592890, 2373620; 592890, 2373694; 592876, 2373775; 592843, 2373848; 592836, 2373926; 592836, 2373976; 592829, 2373996; 592829, 2374040; 592797, 2374134; 592796, 2374134; 592782, 2374182; 592805, 2374172; 592806, 2374171; 592807, 2374171; 592807, 2374172; return to starting point.

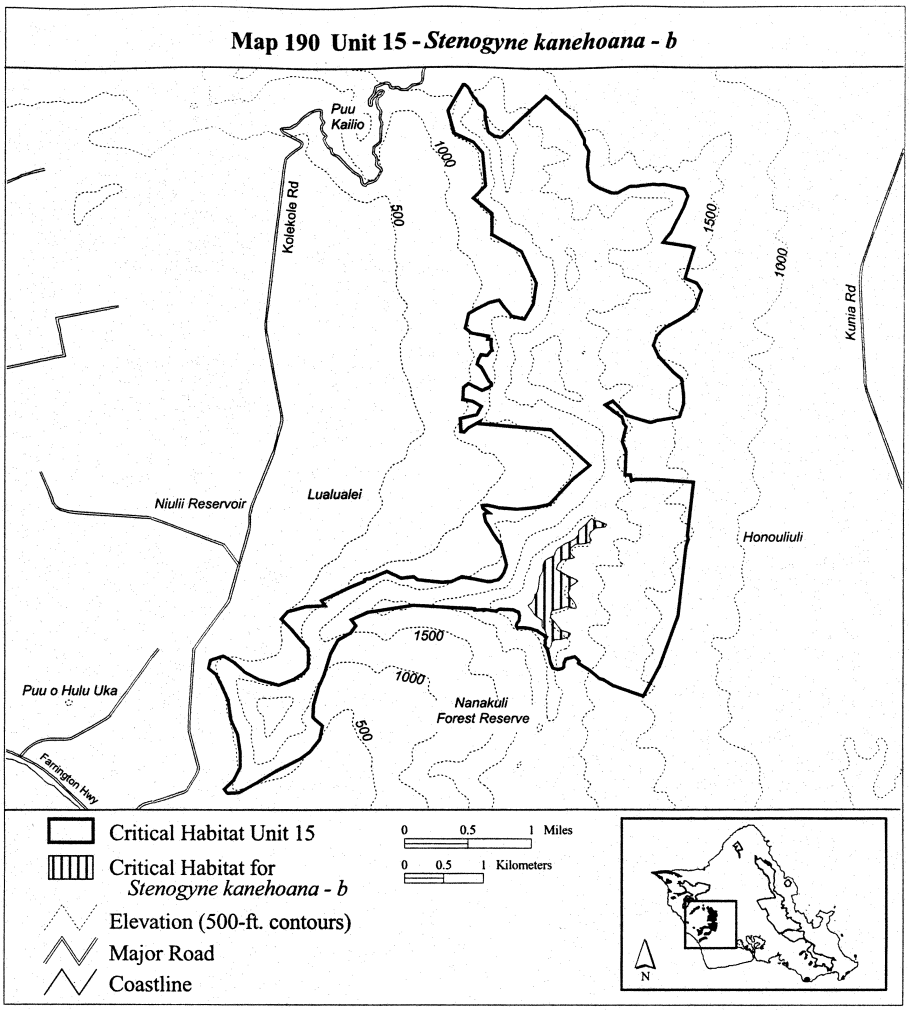
(ii) NOTE: Map 189 follows:



(190) Oahu 15—*Stenogyne kanehoana*—b (43 ha; 107 ac)

(i) Unit consists of the following 86 boundary points: Start at 593978, 2369319; 594027, 2369287; 594064, 2369287; 594165, 2369245; 594152, 2369211; 594096, 2369206; 594027, 2369197; 593967, 2369144; 593944, 2369098; 593976, 2369042; 593951, 2369014; 593909, 2369003; 593854, 2368998; 593775, 2368989; 593713, 2368936; 593701, 2368887; 593738, 2368846; 593761, 2368825; 593743, 2368809; 593604, 2368795; 593549, 2368737; 593524, 2368670; 593595, 2368631; 593671, 2368592; 593773, 2368543; 593803, 2368518; 593759, 2368486; 593704, 2368451; 593706, 2368412; 593678, 2368375; 593697, 2368326; 593743, 2368276; 593775, 2368227; 593787, 2368176; 593743, 2368176; 593660, 2368199; 593611, 2368176; 593503, 2368151; 593475, 2368146; 593454, 2368093; 593454, 2368059; 593510, 2368001; 593549, 2367948; 593595, 2367890; 593671, 2367869; 593715, 2367851; 593692, 2367814; 593627, 2367791; 593581, 2367775; 593514, 2367779; 593475, 2367742; 593461, 2367689; 593440, 2367664; 593392, 2367708; 593387, 2367761; 593408, 2367807; 593408, 2367842; 593380, 2367902; 593348, 2367936; 593346, 2368026; 593286, 2368066; 593249, 2368100; 593221, 2368144; 593173, 2368206; 593219, 2368246; 593251, 2368310; 593253, 2368345; 593286, 2368380; 593304, 2368446; 593311, 2368516; 593316, 2368571; 593327, 2368594; 593357, 2368640; 593357, 2368687; 593362, 2368735; 593371, 2368765; 593401, 2368793; 593431, 2368811; 593500, 2368846; 593514, 2368890; 593544, 2368934; 593641, 2368996; 593759, 2369051; 593810, 2369118; 593812, 2369164; 593925, 2369266; return to starting point.

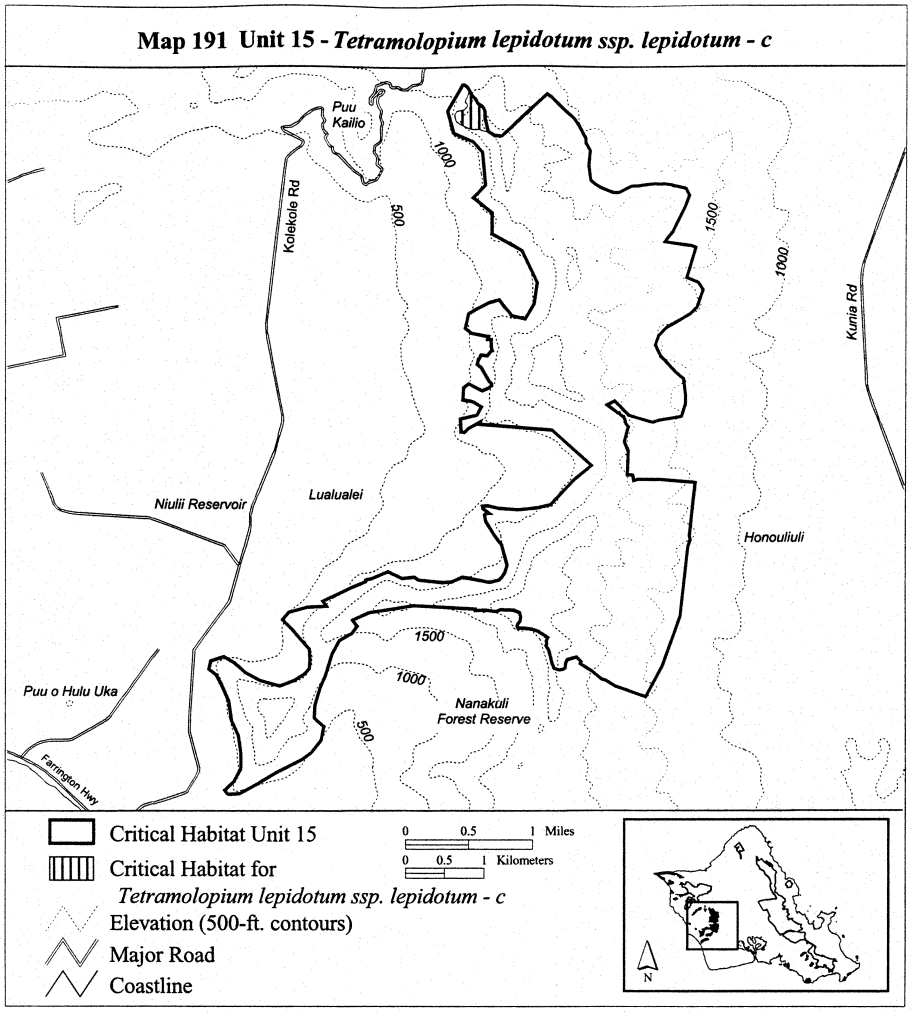
(ii) NOTE: Map 190 follows:



(191) Oahu 15—*Tetramolopium lepidotum* ssp. *lepidotum*—c (11 ha; 28 ac)

(i) Unit consists of the following 47 boundary points: Start at 592641, 2374247; 592622, 2374247; 592573, 2374250; 592556, 2374263; 592529, 2374272; 592492, 2374269; 592454, 2374269; 592428, 2374276; 592385, 2374295; 592356, 2374306; 592318, 2374329; 592292, 2374337; 592265, 2374361; 592249, 2374374; 592236, 2374388; 592227, 2374416; 592225, 2374439; 592225, 2374462; 592236, 2374481; 592258, 2374502; 592288, 2374511; 592315, 2374515; 592342, 2374524; 592360, 2374535; 592372, 2374549; 592382, 2374565; 592383, 2374586; 592379, 2374602; 592360, 2374624; 592366, 2374649; 592374, 2374670; 592386, 2374700; 592396, 2374725; 592402, 2374747; 592402, 2374768; 592404, 2374781; 592454, 2374691; 592484, 2374661; 592514, 2374601; 592514, 2374600; 592574, 2374561; 592594, 2374531; 592604, 2374492; 592604, 2374422; 592634, 2374282; 592634, 2374281; 592644, 2374251; return to starting point.

(ii) NOTE: Map 191 follows:

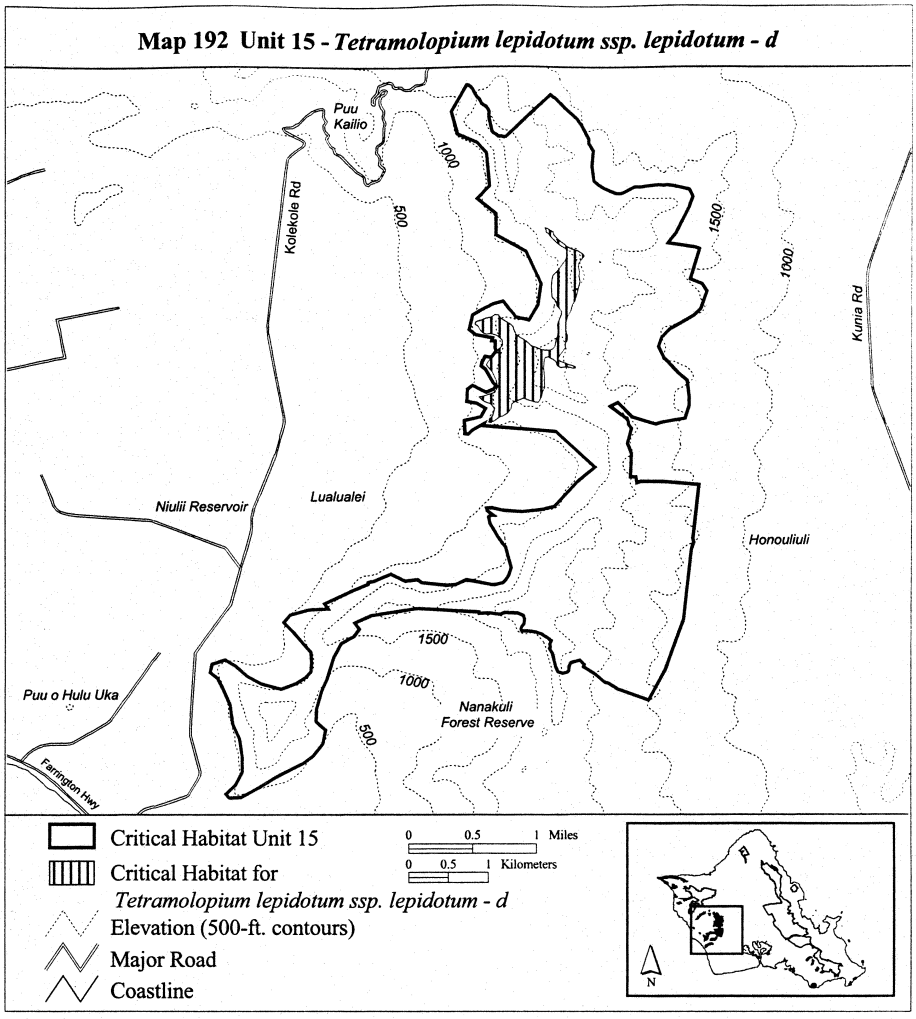


(192) Oahu 15—*Tetramolopium lepidotum* ssp. *lepidotum*—d (94 ha; 232 ac)

(i) Unit consists of the following 190 boundary points: Start at 593324, 2373029; 593355, 2373021; 593385, 2373001; 593415, 2372982; 593421, 2372956; 593426, 2372942; 593439, 2372931; 593471, 2372897; 593507, 2372866; 593560, 2372829; 593598, 2372794; 593633, 2372775; 593650, 2372767; 593677, 2372755; 593696, 2372755; 593747, 2372732; 593782, 2372715; 593806, 2372699; 593815, 2372672; 593777, 2372631; 593747, 2372583; 593742, 2372540; 593753, 2372480; 593750, 2372429; 593760, 2372351; 593741, 2372273; 593722, 2372183; 593718, 2372168; 593719, 2372168; 593713, 2372144; 593706, 2372138; 593706, 2372137; 593700, 2372106; 593698, 2372106; 593698, 2372103; 593668, 2372056; 593653, 2372007; 593648, 2371975; 593623, 2371940; 593602, 2371902; 593590, 2371860; 593585, 2371843; 593583, 2371798; 593585, 2371738; 593587, 2371710; 593601, 2371678; 593599, 2371635; 593593, 2371595; 593572, 2371562; 593575, 2371540; 593574, 2371511; 593558, 2371489; 593528, 2371444; 593496, 2371398; 593483, 2371378; 593499, 2371352; 593536, 2371333; 593585, 2371320;

593623, 2371305; 593687, 2371281; 593704, 2371269; 593706, 2371259; 593687, 2371254; 593650, 2371262; 593610, 2371269; 593556, 2371269; 593518, 2371265; 593493, 2371278; 593471, 2371300; 593458, 2371339; 593436, 2371362; 593398, 2371387; 593359, 2371405; 593323, 2371392; 593309, 2371362; 593305, 2371256; 593315, 2371110; 593312, 2371110; 593319, 2371035; 593309, 2370992; 593286, 2370948; 593274, 2370884; 593239, 2370829; 593201, 2370825; 593139, 2370843; 593043, 2370874; 592935, 2370835; 592898, 2370802; 592898, 2370780; 592882, 2370737; 592851, 2370694; 592786, 2370655; 592745, 2370637; 592679, 2370592; 592636, 2370569; 592606, 2370569; 592626, 2370614; 592653, 2370649; 592683, 2370749; 592632, 2370806; 592581, 2370825; 592530, 2370853; 592493, 2370896; 592528, 2370905; 592630, 2370935; 592685, 2370954; 592720, 2371017; 592700, 2371103; 592649, 2371213; 592579, 2371303; 592589, 2371328; 592642, 2371407; 592696, 2371467; 592781, 2371551; 592779, 2371571; 592777, 2371614; 592751, 2371647; 592708, 2371679; 592632, 2371694; 592581, 2371692; 592534, 2371700; 592497, 2371745; 592469, 2371792; 592436, 2371816; 592440, 2371843; 592507, 2371865; 592573, 2371894; 592638, 2371908; 592687, 2371941; 592736, 2371931; 592759, 2371892; 592790, 2371872; 592824, 2371851; 592859, 2371830; 592890, 2371813; 592908, 2371793; 592925, 2371749; 592939, 2371704; 592963, 2371679; 593010, 2371649; 593059, 2371622; 593104, 2371583; 593147, 2371547; 593139, 2371545; 593185, 2371531; 593280, 2371494; 593329, 2371484; 593388, 2371486; 593423, 2371503; 593442, 2371533; 593450, 2371578; 593458, 2371614; 593477, 2371657; 593480, 2371695; 593479, 2371746; 593477, 2371805; 593488, 2371843; 593507, 2371892; 593520, 2371927; 593523, 2371953; 593523, 2371978; 593509, 2372011; 593471, 2372053; 593461, 2372083; 593459, 2372088; 593451, 2372114; 593441, 2372123; 593432, 2372134; 593433, 2372134; 593405, 2372169; 593401, 2372308; 593404, 2372377; 593417, 2372432; 593482, 2372494; 593533, 2372559; 593564, 2372604; 593585, 2372640; 593590, 2372677; 593591, 2372724; 593591, 2372761; 593556, 2372783; 593517, 2372801; 593466, 2372843; 593425, 2372885; 593394, 2372915; 593367, 2372942; 593355, 2372959; 593332, 2372974; 593326, 2372993; 593313, 2373029; return to starting point.

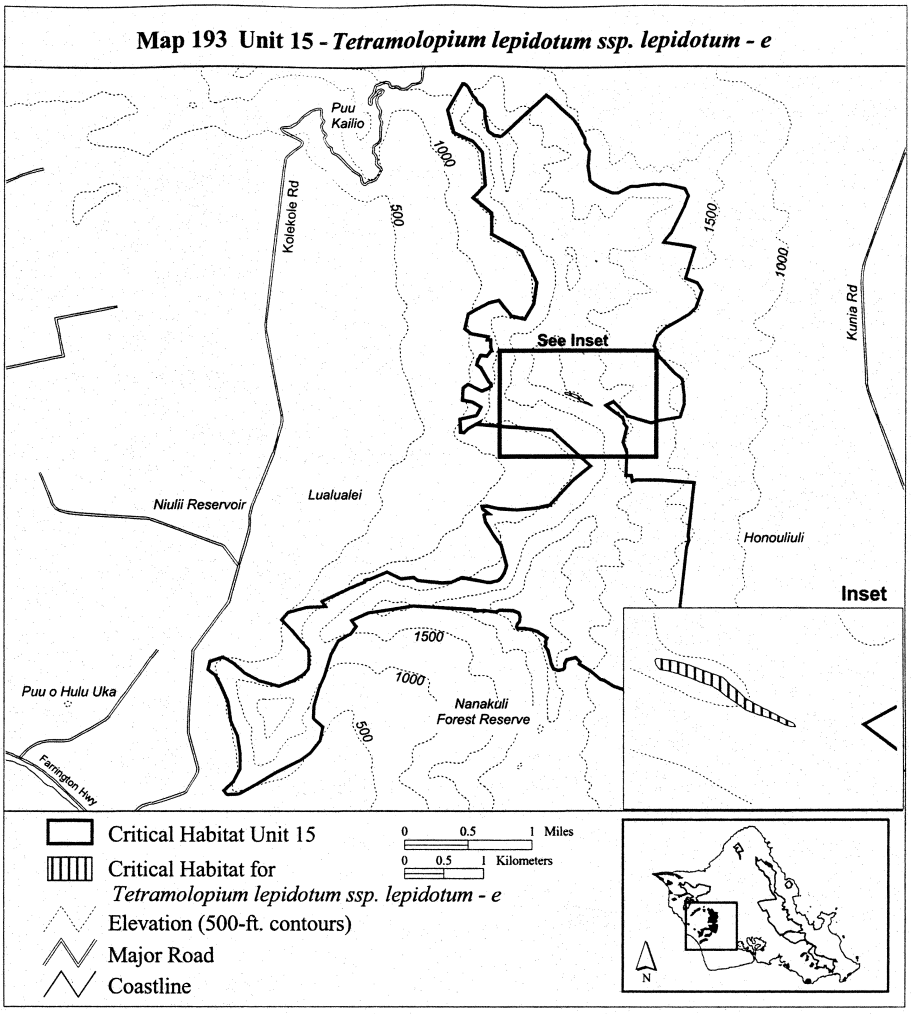
(ii) NOTE: Map 192 follows:



(193) Oahu 15—*Tetramolopium lepidotum* ssp. *lepidotum*—e (1 ha; 2 ac)

(i) Unit consists of the following 32 boundary points: Start at 593625, 2370937; 593672, 2370931; 593706, 2370921; 593746, 2370906; 593792, 2370889; 593811, 2370871; 593828, 2370857; 593847, 2370838; 593878, 2370820; 593922, 2370798; 593952, 2370782; 593971, 2370774; 593977, 2370765; 593966, 2370765; 593952, 2370769; 593933, 2370777; 593919, 2370784; 593903, 2370789; 593884, 2370794; 593865, 2370802; 593851, 2370807; 593827, 2370824; 593802, 2370841; 593781, 2370858; 593764, 2370867; 593737, 2370877; 593713, 2370887; 593681, 2370898; 593652, 2370906; 593633, 2370909; 593622, 2370921; 593620, 2370933; return to starting point.

(ii) NOTE: Map 193 follows:

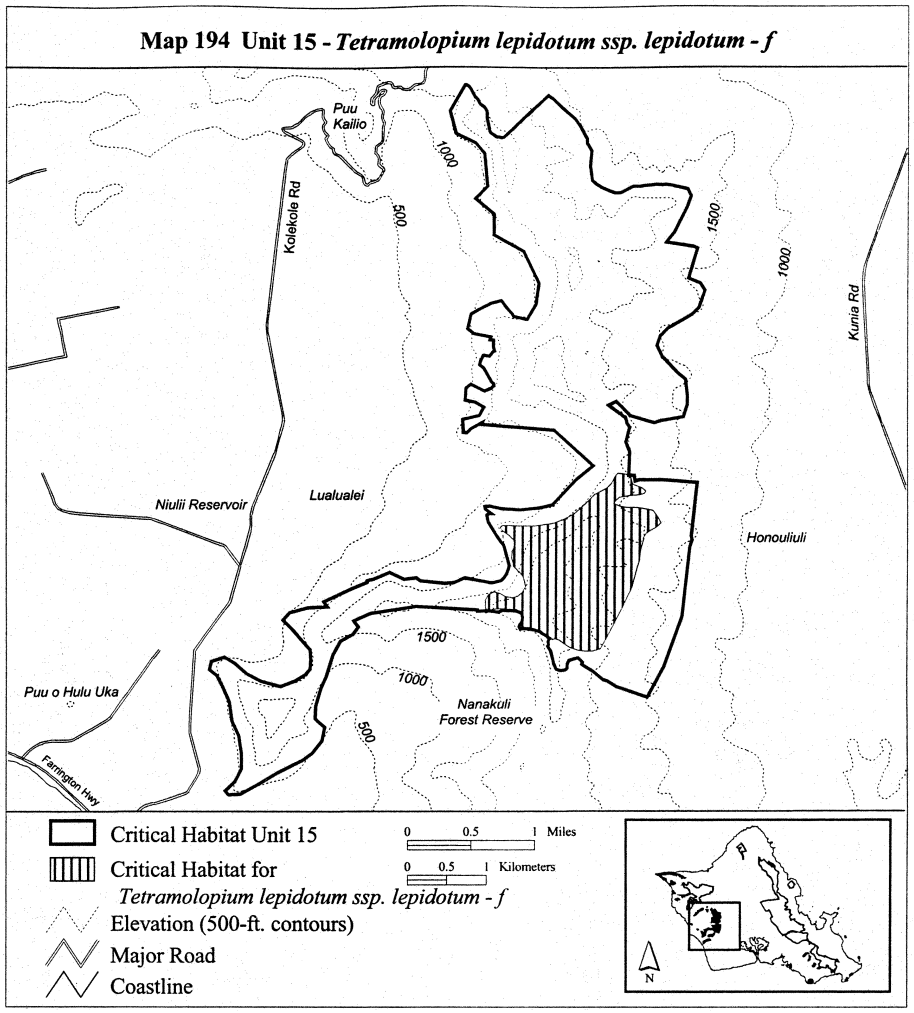


(194) Oahu 15—*Tetramolopium lepidotum* ssp. *lepidotum*—f (260 ha; 641 ac)

(i) Unit consists of the following 94 boundary points: Start at 594589, 2369071; 594601, 2369071; 594553, 2368922; 594541, 2368792; 594513, 2368696; 594447, 2368445; 594329, 2368194; 594169, 2367882; 594051, 2367677; 593936, 2367646; 593869, 2367646; 593773, 2367655; 593673, 2367689; 593582, 2367743; 593531, 2367785; 593482, 2367801; 593446, 2367794; 593444, 2367789; 593435, 2367797; 593381, 2367824; 593380, 2367824; 593379, 2367825; 593301, 2367885; 593201, 2367915; 593116, 2367928; 593029, 2367928; 593020, 2367955; 593029, 2367985; 593056, 2368018; 593059, 2368073; 593050, 2368127; 592986, 2368154; 592838, 2368182; 592751, 2368185; 592678, 2368175; 592611, 2368151; 592590, 2368194; 592590, 2368290; 592630, 2368363; 592699, 2368399; 592778, 2368378; 592838, 2368342; 592935, 2368321; 593008, 2368339; 593059, 2368393; 593098, 2368463; 593080, 2368544; 593071, 2368590; 593011, 2368659; 592944, 2368720; 592944, 2368756; 592920, 2368823; 592926, 2368913; 592948, 2368954; 592956, 2369031; 592941, 2369061; 592875, 2369125; 592811, 2369167;

592775, 2369213; 592802, 2369237; 592875, 2369237; 593038, 2369231; 593216, 2369234; 593452, 2369261; 593594, 2369322; 593730, 2369394; 593884, 2369536; 593975, 2369630; 594120, 2369709; 594187, 2369772; 594223, 2369845; 594262, 2369896; 594377, 2369887; 594426, 2369845; 594447, 2369778; 594474, 2369751; 594577, 2369715; 594622, 2369678; 594604, 2369645; 594541, 2369627; 594420, 2369621; 594290, 2369591; 594241, 2369557; 594220, 2369515; 594299, 2369476; 594392, 2369464; 594504, 2369464; 594601, 2369455; 594713, 2369427; 594770, 2369349; 594813, 2369267; 594770, 2369222; 594668, 2369170; 594628, 2369140; return to starting point.

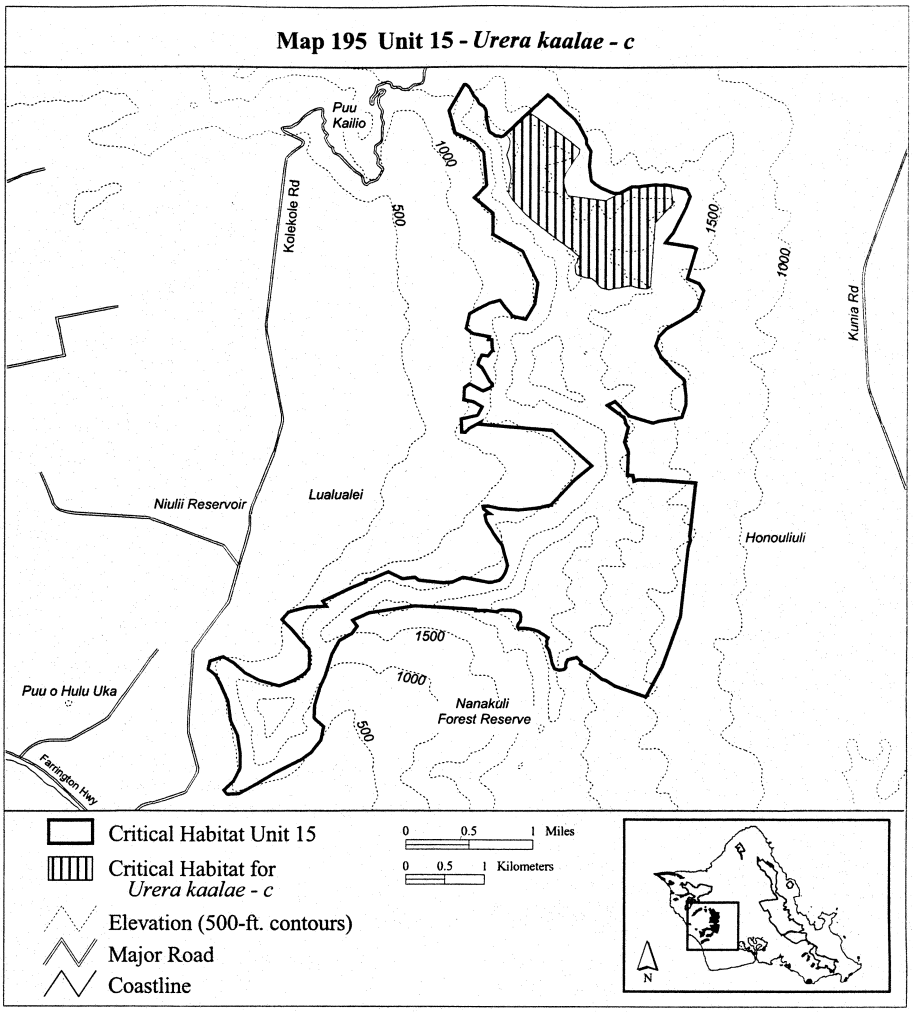
(ii) NOTE: Map 194 follows:



(195) Oahu 15—*Urera kaalae*—c (224 ha; 555 ac)

(i) Unit consists of the following 63 boundary points: Start at 593151, 2374494; 593315, 2374385; 593612, 2374173; 593793, 2374029; 593779, 2373964; 593731, 2373894; 593660, 2373784; 593609, 2373702; 593592, 2373648; 593592, 2373594; 593601, 2373538; 593629, 2373467; 593661, 2373423; 593652, 2373439; 594121, 2373373; 594460, 2373552; 594941, 2373564; 594974, 2373334; 594744, 2373091; 594696, 2372334; 594697, 2372333; 594697, 2372283; 594652, 2372257; 594541, 2372266; 594454, 2372294; 594400, 2372294; 594293, 2372267; 594231, 2372261; 594168, 2372241; 594126, 2372258; 594075, 2372267; 594030, 2372303; 593999, 2372354; 593948, 2372388; 593889, 2372397; 593812, 2372413; 593781, 2372425; 593756, 2372442; 593742, 2372467; 593742, 2372490; 593736, 2372521; 593736, 2372560; 593757, 2372587; 593781, 2372659; 593790, 2372662; 593663, 2372772; 593490, 2372897; 593202, 2373123; 593095, 2373213; 593019, 2373295; 592937, 2373388; 592889, 2373462; 592897, 2373535; 592908, 2373597; 592923, 2373668; 592914, 2373772; 592889, 2373866; 592866, 2373947; 592894, 2374029; 592908, 2374120; 592894, 2374162; 592860, 2374213; 592854, 2374216; return to starting point.

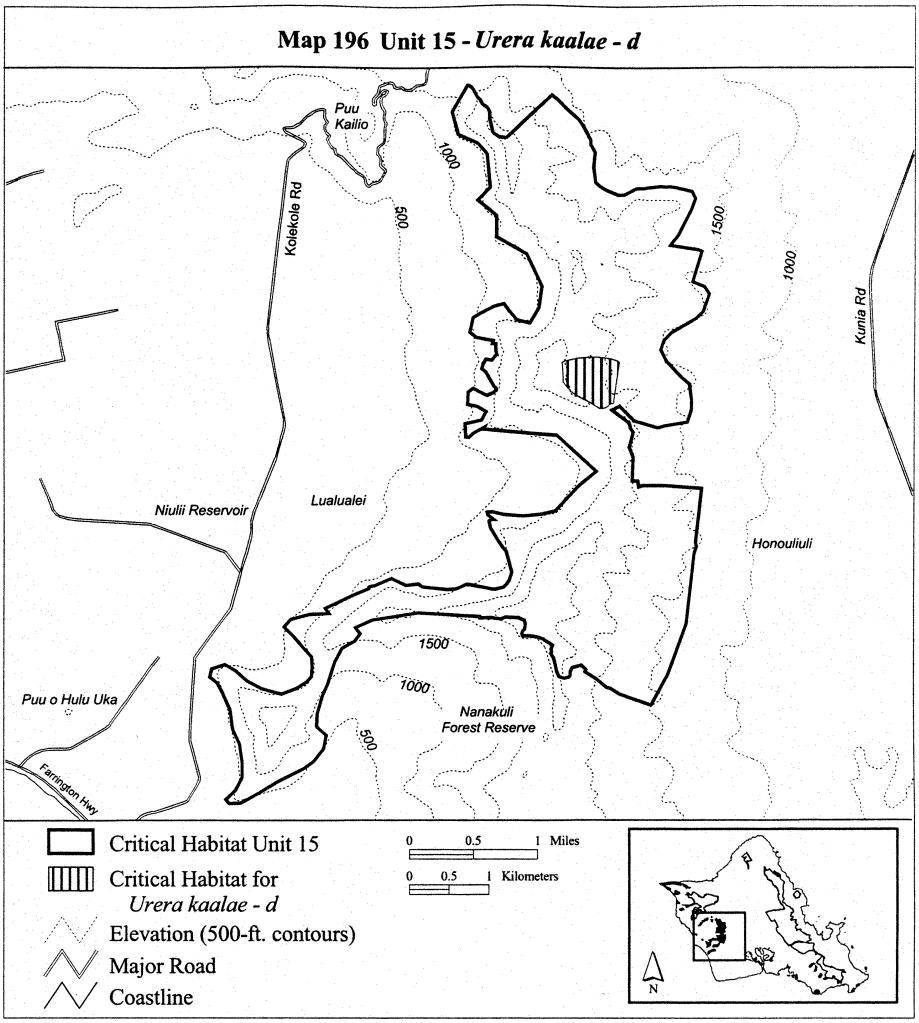
(ii) NOTE: Map 195 follows:



(196) Oahu 15—*Urera kaalae*—d (35 ha; 87 ac)

(i) Unit consists of the following 35 boundary points: Start at 594170, 2370879; 594172, 2370877; 594170, 2370855; 594166, 2370854; 594166, 2370853; 594164, 2370854; 594122, 2370843; 594090, 2370815; 594040, 2370789; 593996, 2370789; 593930, 2370827; 593852, 2370875; 593778, 2370907; 593716, 2370947; 593642, 2370999; 593602, 2371041; 593574, 2371067; 593558, 2371095; 593539, 2371118; 593531, 2371121; 593534, 2371173; 593519, 2371375; 593533, 2371375; 593552, 2371390; 593628, 2371404; 593716, 2371426; 593794, 2371431; 593876, 2371437; 593974, 2371435; 594036, 2371431; 594138, 2371415; 594190, 2371399; 594232, 2371385; 594246, 2371359; 594239, 2371354; return to starting point.

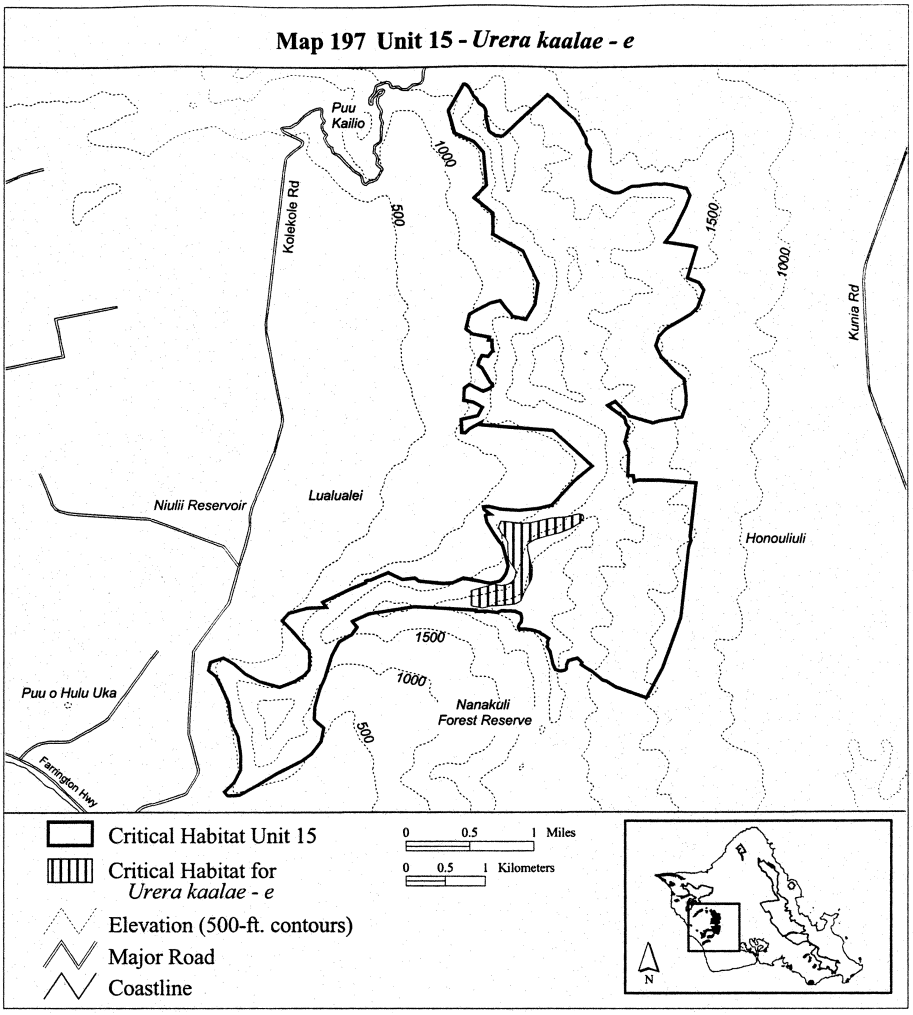
(ii) NOTE: Map 196 follows:



(197) Oahu 15—*Urera kaalae*—e (51 ha; 125 ac)

(i) Unit consists of the following 45 boundary points: Start at 592800, 2369299; 593043, 2369270; 593165, 2369274; 593420, 2369331; 593630, 2369355; 593788, 2369392; 593828, 2369376; 593845, 2369335; 593792, 2369270; 593687, 2369206; 593537, 2369149; 593367, 2369105; 593233, 2369068; 593136, 2369007; 593140, 2368926; 593161, 2368813; 593193, 2368696; 593189, 2368566; 593149, 2368485; 593088, 2368376; 593047, 2368283; 592979, 2368247; 592898, 2368239; 592744, 2368230; 592679, 2368230; 592566, 2368198; 592461, 2368222; 592426, 2368228; 592424, 2368417; 592713, 2368500; 592812, 2368483; 592900, 2368502; 592931, 2368518; 592969, 2368564; 592987, 2368616; 592989, 2368667; 592979, 2368688; 592926, 2368757; 592898, 2368821; 592885, 2368931; 592881, 2369036; 592849, 2369100; 592805, 2369141; 592784, 2369185; 592772, 2369226; return to starting point.

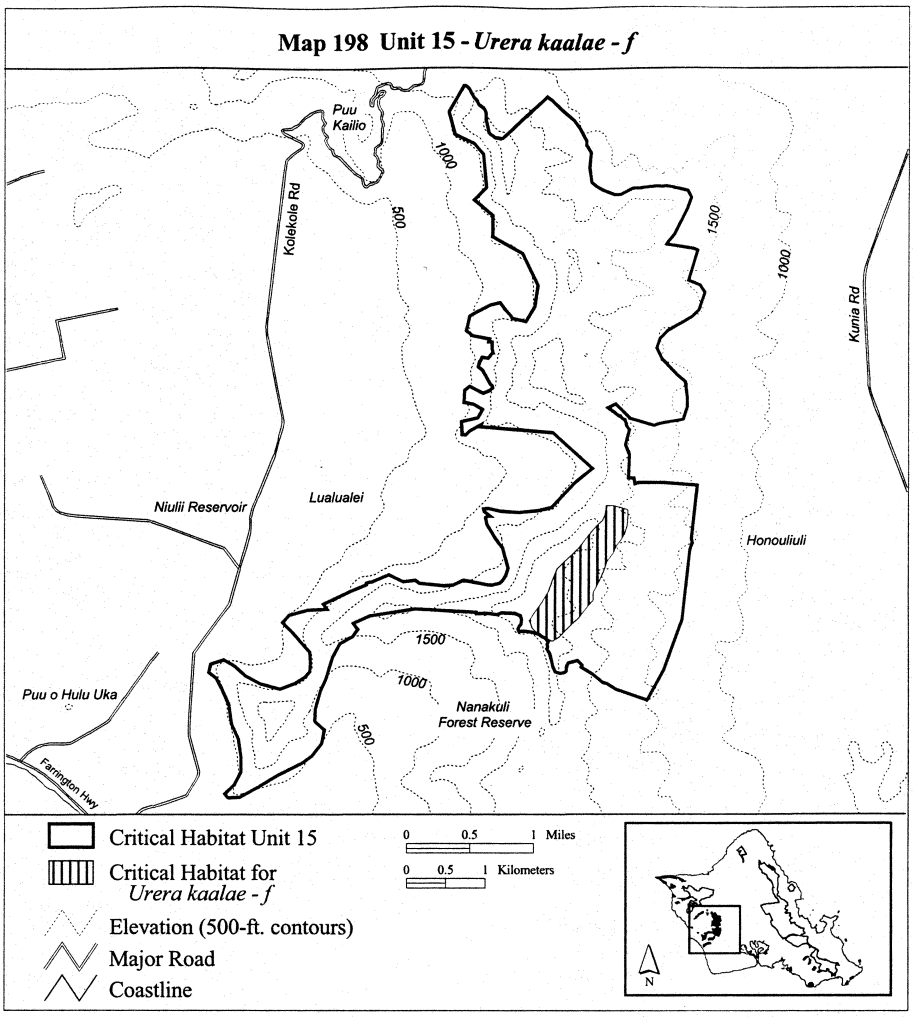
(ii) NOTE: Map 197 follows:



(198) Oahu 15—*Urera kaalae*—f (82 ha; 202 ac)

(i) Unit consists of the following 39 boundary points: Start at 594148, 2369525; 594213, 2369525; 594310, 2369497; 594395, 2369473; 594399, 2369392; 594387, 2369279; 594354, 2369153; 594302, 2369072; 594257, 2369015; 594213, 2368914; 594136, 2368809; 594083, 2368672; 594035, 2368550; 593966, 2368417; 593966, 2368324; 593909, 2368259; 593792, 2368105; 593675, 2368000; 593529, 2367854; 593448, 2367801; 593302, 2367874; 593242, 2367927; 593193, 2367967; 593165, 2368065; 593217, 2368150; 593314, 2368283; 593399, 2368425; 593448, 2368578; 593505, 2368716; 593622, 2368833; 593703, 2368906; 593764, 2368963; 593832, 2369044; 593901, 2369145; 594002, 2369262; 594079, 2369331; 594104, 2369396; 594120, 2369485; 594124, 2369521; return to starting point.

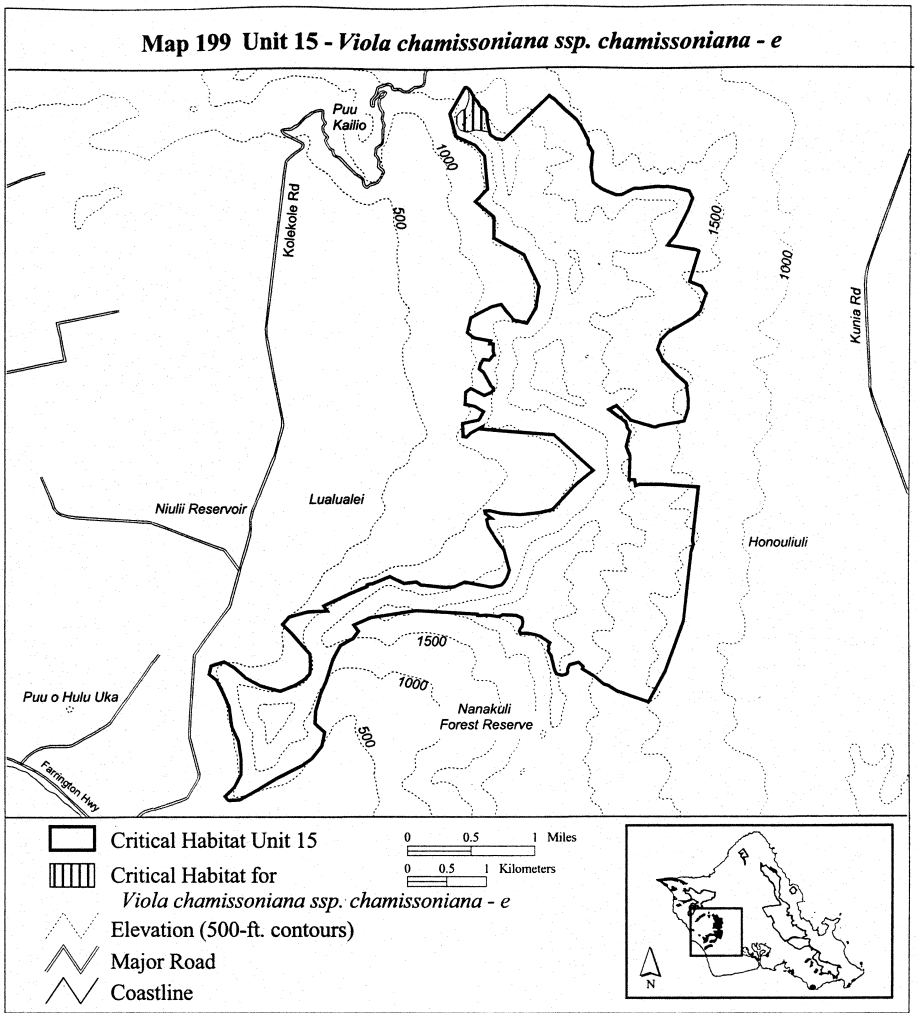
(ii) NOTE: Map 198 follows:



(199) Oahu 15—*Viola chamissoniana* ssp. *chamissoniana*—e (13 ha; 31 ac)

(i) Unit consists of the following 25 boundary points: Start at 592635, 2374276; 592624, 2374278; 592539, 2374292; 592462, 2374305; 592356, 2374278; 592262, 2374307; 592218, 2374388; 592214, 2374482; 592285, 2374553; 592331, 2374567; 592354, 2374630; 592379, 2374698; 592370, 2374786; 592391, 2374800; 592404, 2374781; 592454, 2374691; 592484, 2374661; 592514, 2374601; 592514, 2374600; 592574, 2374561; 592594, 2374531; 592604, 2374492; 592604, 2374422; 592634, 2374282; 592634, 2374281; return to starting point.

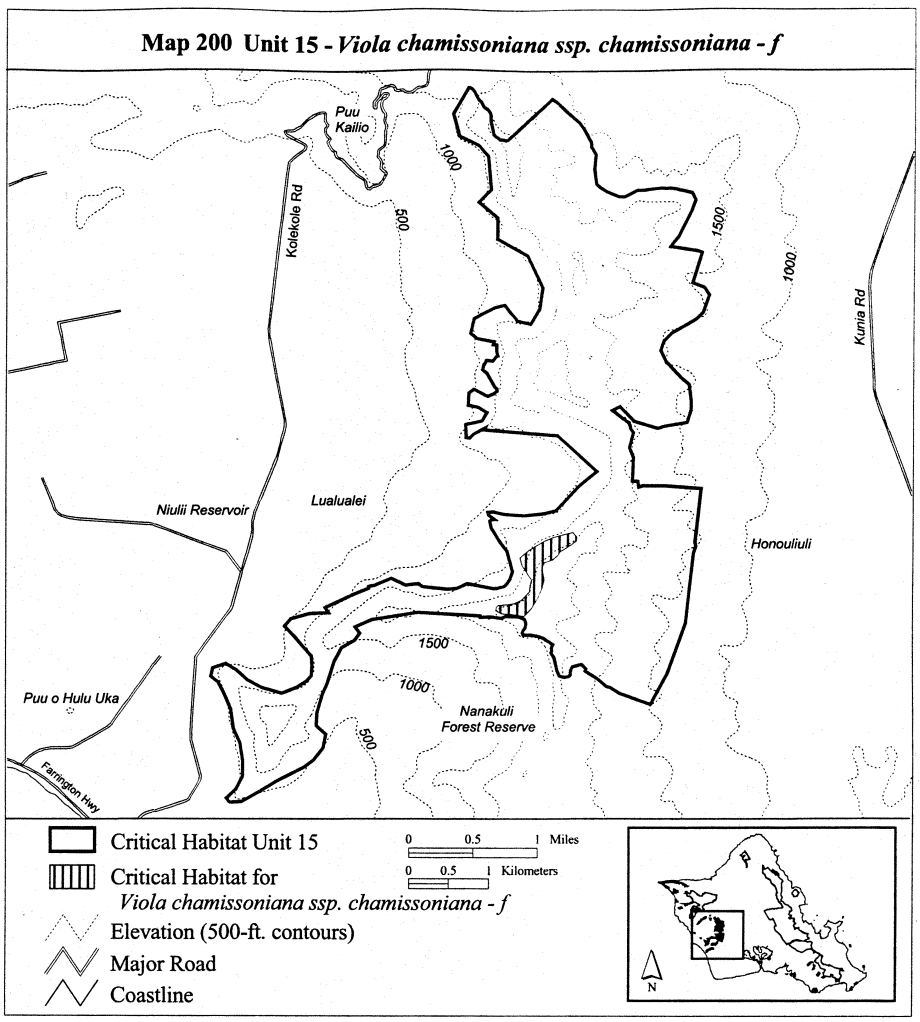
(ii) NOTE: Map 199 follows:



(200) Oahu 15—*Viola chamissoniana* ssp. *chamissoniana*—f (29 ha; 72 ac)

(i) Unit consists of the following 36 boundary points: Start at 593654, 2369223; 593680, 2369196; 593696, 2369173; 593696, 2369118; 593632, 2369068; 593572, 2369025; 593497, 2368977; 593467, 2368931; 593397, 2368874; 593305, 2368844; 593269, 2368785; 593269, 2368742; 593278, 2368694; 593292, 2368621; 593257, 2368493; 593203, 2368370; 593136, 2368267; 593043, 2368167; 592874, 2368187; 592760, 2368199; 592689, 2368242; 592689, 2368267; 592714, 2368301; 592817, 2368313; 592917, 2368322; 593009, 2368367; 593061, 2368427; 593107, 2368466; 593116, 2368543; 593134, 2368621; 593095, 2368676; 593013, 2368803; 592986, 2368904; 593098, 2368995; 593280, 2369105; 593410, 2369162; return to starting point.

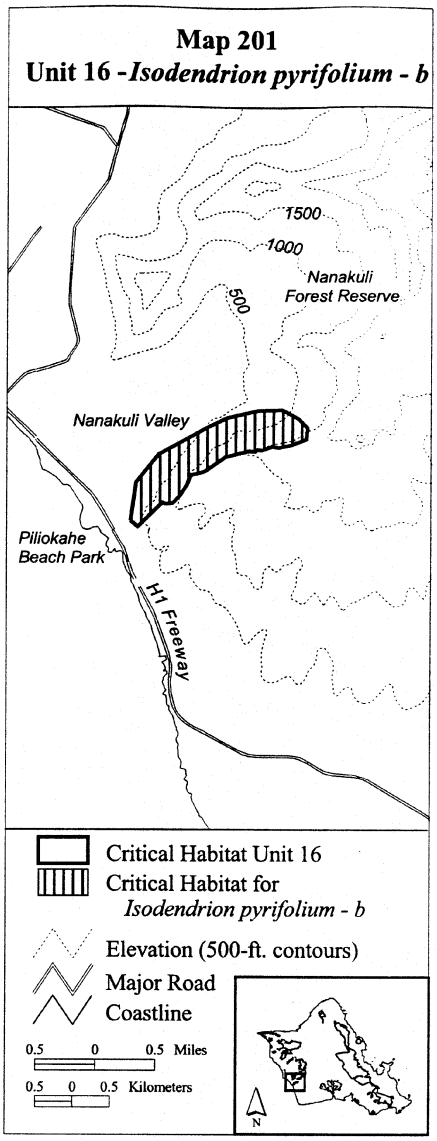
(ii) NOTE: Map 200 follows:



(201) Oahu 16—*Isodendrion pyrifolium*—b (129 ha; 319 ac)

(i) Unit consists of the following 27 boundary points: Start at 589674, 2363678; 589752, 2364203; 590044, 2364573; 590689, 2364934; 590964, 2365071; 591394, 2365166; 591712, 2365175; 591919, 2365063; 592048, 2364934; 592031, 2364779; 591841, 2364702; 591661, 2364667; 591575, 2364684; 591436, 2364630; 591377, 2364641; 591346, 2364612; 591265, 2364624; 590956, 2364547; 590672, 2364349; 590483, 2364289; 590427, 2364155; 590381, 2364088; 590344, 2364028; 590236, 2363915; 590142, 2363906; 590096, 2363919; 589769, 2363592; return to starting point.

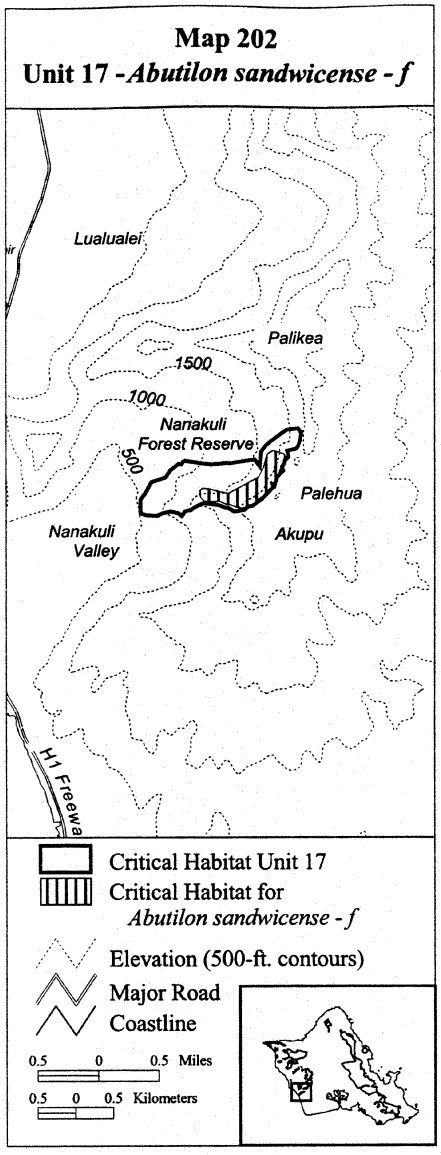
(ii) NOTE: Map 201 follows:



(202) Oahu 17—*Abutilon sandwicense*—f (30 ha; 74 ac)

(i) Unit consists of the following 35 boundary points: Start at 592994, 2366343; 592976, 2366353; 592994, 2366336; 593014, 2366317; 592998, 2366299; 592891, 2366183; 592730, 2366057; 592556, 2366026; 592434, 2366070; 592410, 2366082; 592411, 2366067; 592292, 2366117; 592150, 2366120; 592089, 2366117; 592037, 2366172; 592025, 2366265; 592072, 2366291; 592156, 2366282; 592272, 2366253; 592402, 2366227; 592815, 2366444; 592814, 2366444; 592869, 2366563; 592895, 2366650; 592924, 2366746; 592999, 2366801; 593089, 2366775; 593150, 2366749; 593167, 2366705; 593157, 2366664; 593144, 2366609; 593098, 2366549; 593089, 2366526; 593054, 2366433; 593025, 2366325; return to starting point.

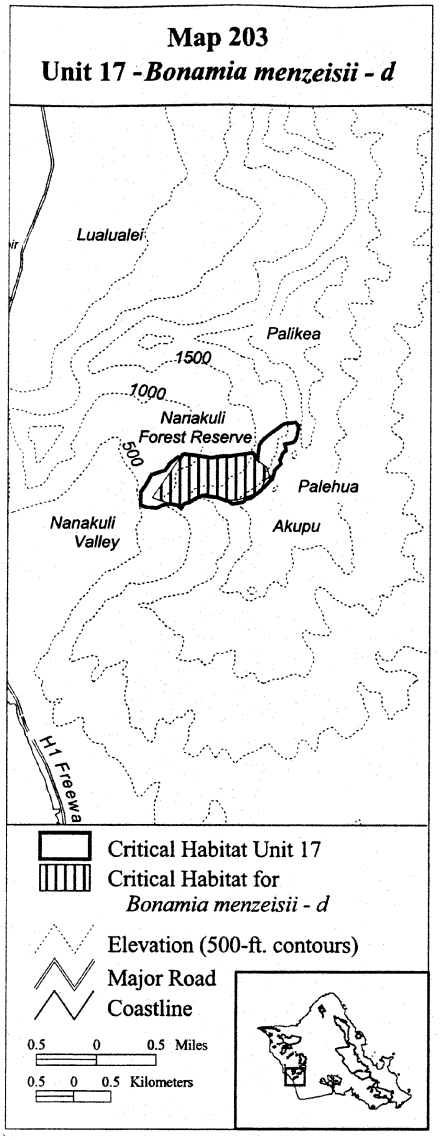
(ii) NOTE: Map 202 follows:



(203) Oahu 17—*Bonamia menziesii*—d (77 ha; 191 ac)

(i) Unit consists of the following 17 boundary points: Start at 591812, 2366666; 592269, 2366597; 592755, 2366681; 592869, 2366536; 592937, 2366491; 592983, 2366354; 592922, 2366301; 592854, 2366149; 592580, 2366042; 592390, 2366027; 592124, 2366118; 591828, 2365981; 591790, 2365921; 591743, 2365955; 591626, 2365984; 591501, 2366027; 591402, 2366065; return to starting point.

(ii) NOTE: Map 203 follows:

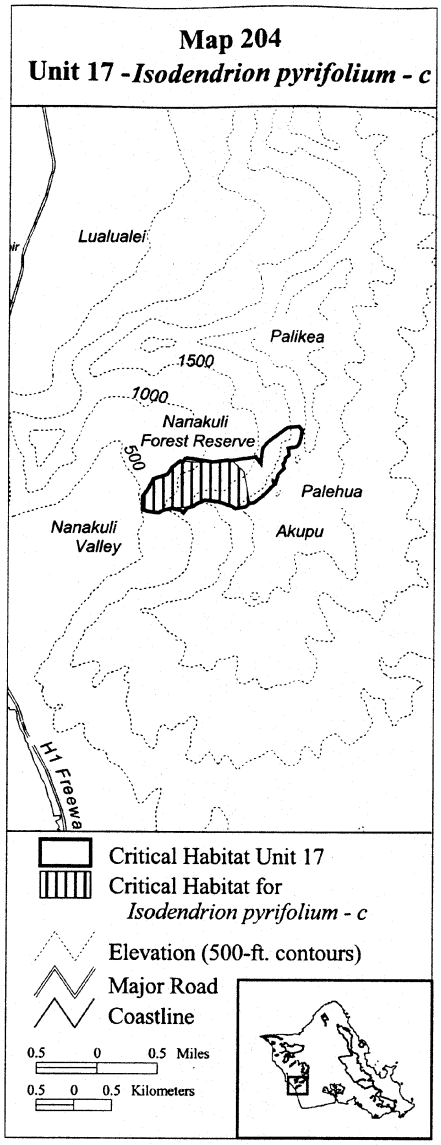


(204) Oahu 17—*Isodendrion pyrifolium*—c (73 ha; 181 ac)

(i) Unit consists of the following 22 boundary points: Start at 591235, 2365957; 591239, 2366138; 591300, 2366224;

591386, 2366378; 591566, 2366439; 591626, 2366525; 591738, 2366619; 591962, 2366602; 592194, 2366611; 592375, 2366636; 592452, 2366619; 592598, 2366482; 592676, 2366052; 592624, 2366000; 592478, 2365983; 592383, 2366052; 592031, 2366103; 591910, 2366000; 591669, 2365991; 591529, 2365960; 591455, 2365921; 591308, 2365932; return to starting point.

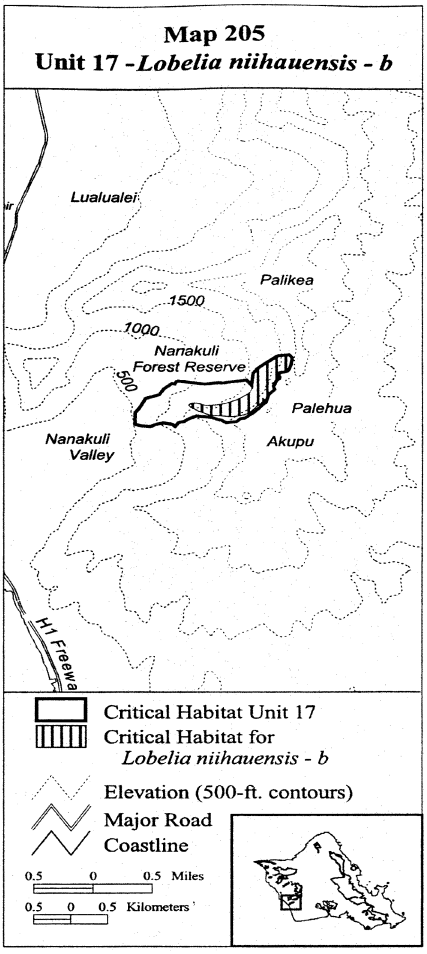
(ii) NOTE: Map 204 follows:



(205) Oahu 17—*Lobelia niihauensis*—b (41 ha; 102 ac)

(i) Unit consists of the following 48 boundary points: Start at 592843, 2366793; 592908, 2366869; 592974, 2366924; 593065, 2366996; 593127, 2367041; 593182, 2367075; 593337, 2367089; 593376, 2367046; 593376, 2367000; 593359, 2366917; 593323, 2366838; 593307, 2366815; 593193, 2366797; 593208, 2366729; 593203, 2366707; 593187, 2366695; 593187, 2366685; 593167, 2366671; 593128, 2366644; 593113, 2366633; 593111, 2366632; 593108, 2366630; 593137, 2366522; 593041, 2366425; 593003, 2366356; 592993, 2366345; 592939, 2366286; 592865, 2366205; 592776, 2366134; 592669, 2366095; 592545, 2366081; 592385, 2366091; 592258, 2366105; 592182, 2366138; 592101, 2366174; 592048, 2366208; 591991, 2366236; 591972, 2366272; 592007, 2366301; 592074, 2366298; 592208, 2366265; 592323, 2366270; 592466, 2366291; 592621, 2366353; 592719, 2366413; 592798, 2366475; 592822, 2366523; 592835, 2366686; return to starting point.

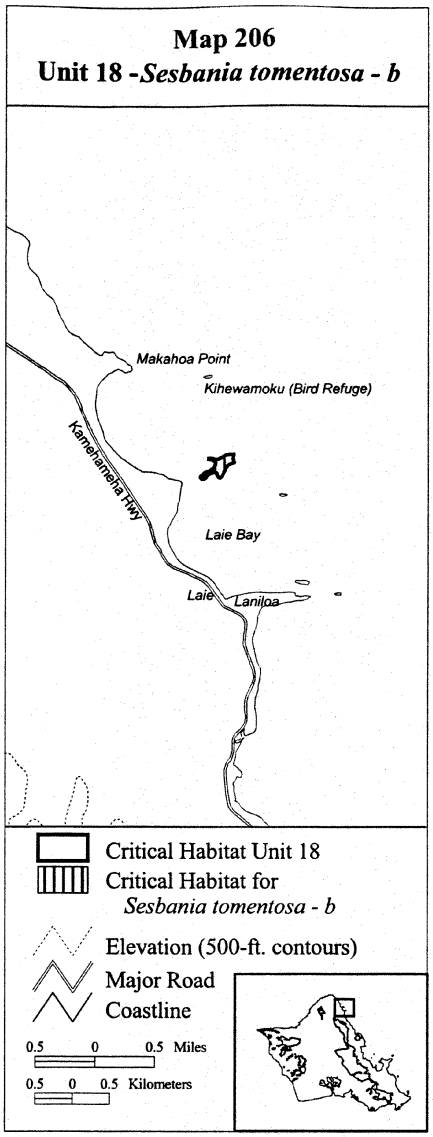
(ii) NOTE: Map 205 follows:



(206) Oahu 18—*Sesbania tomentosa*—b (5 ha; 12 ac)

(i) Unit consists of the following 117 boundary points: Start at 611637, 2395945; 611637, 2395929; 611616, 2395921; 611615, 2395920; 611614, 2395917; 611607, 2395917; 611580, 2395908; 611568, 2395898; 611548, 2395879; 611547, 2395879; 611541, 2395867; 611531, 2395852; 611526, 2395843; 611526, 2395842; 611525, 2395838; 611516, 2395820; 611515, 2395820; 611515, 2395819; 611515, 2395816; 611514, 2395815; 611513, 2395815; 611513, 2395814; 611513, 2395812; 611503, 2395782; 611494, 2395764; 611485, 2395755; 611473, 2395746; 611461, 2395745; 611455, 2395746; 611442, 2395756; 611436, 2395770; 611426, 2395795; 611425, 2395796; 611418, 2395802; 611417, 2395802; 611396, 2395803; 611373, 2395803; 611357, 2395799; 611335, 2395788; 611334, 2395788; 611326, 2395777; 611297, 2395742; 611285, 2395734; 611274, 2395729; 611254, 2395726; 611244, 2395728; 611235, 2395735; 611232, 2395741; 611232, 2395751; 611241, 2395762; 611259, 2395772; 611264, 2395778; 611264, 2395779; 611263, 2395786; 611269, 2395793; 611283, 2395803; 611338, 2395824; 611363, 2395837; 611366, 2395843; 611373, 2395846; 611374, 2395846; 611388, 2395856; 611389, 2395857; 611400, 2395879; 611407, 2395896; 611408, 2395897; 611408, 2395907; 611412, 2395912; 611412, 2395913; 611413, 2395928; 611413, 2395929; 611412, 2395930; 611411, 2395935; 611411, 2395936; 611405, 2395947; 611404, 2395948; 611399, 2395953; 611398, 2395953; 611384, 2395959; 611383, 2395959; 611355, 2395966; 611331, 2395970; 611330, 2395972; 611330, 2395978; 611337, 2395983; 611350, 2395984; 611365, 2395984; 611396, 2395977; 611419, 2395970; 611438, 2395969; 611439, 2395969; 611452, 2395973; 611453, 2395973; 611466, 2395982; 611477, 2395986; 611492, 2395990; 611493, 2395990; 611504, 2395995; 611504, 2395996; 611506, 2395998; 611510, 2396001; 611525, 2396016; 611537, 2396021; 611607, 2396032; 611622, 2396032; 611629, 2396030; 611631, 2396025; 611630, 2396005; 611624, 2395990; 611624, 2395989; 611625, 2395973; 611625, 2395972; 611627, 2395969; 611630, 2395961; 611633, 2395953; 611633, 2395952; 611635, 2395949; return to starting point.

(ii) NOTE: Map 206 follows:

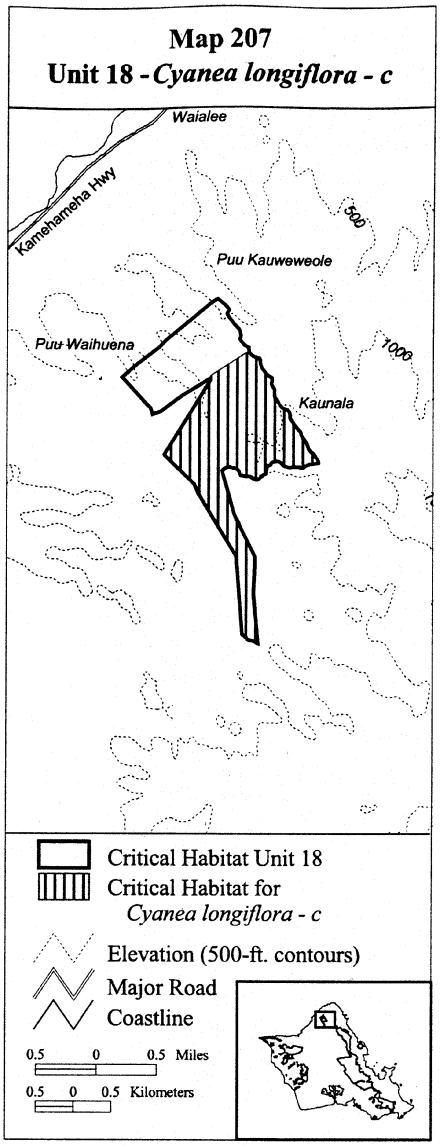


(207) Oahu 19—*Cyanea longiflora*—c (324 ha; 801 ac)

(i) Unit consists of the following 202 boundary points: Start at 603332, 2393228; 603224, 2393213; 603164, 2393200; 603163, 2393200; 603142, 2393184; 603108, 2393154; 603094, 2393152; 603083, 2393152; 603072, 2393157; 603054, 2393168; 603053, 2393169; 603021, 2393169; 602988, 2393169; 602983, 2393171; 602982, 2393172; 602982, 2393171; 602952, 2393170; 602918, 2393162; 602897, 2393161; 602869, 2393169; 602816, 2393190; 602806, 2393196; 602781, 2393232; 602780, 2393232; 602758, 2393252; 602757, 2393252; 602739, 2393260; 602738, 2393260; 602711, 2393260; 602662, 2393250; 602641, 2393240; 602635, 2393232; 602634, 2393232; 602624, 2393209; 602616, 2393201; 602579, 2393186; 602578, 2393186; 602578, 2393185; 602567, 2393167; 602567, 2393166; 602564, 2393147; 602554, 2393122; 602554, 2393121; 602556, 2393090; 602549, 2393075; 602492, 2393031; 602478, 2393024; 602477, 2393024; 602477, 2393023; 602467, 2393006; 602445, 2392990; 602419, 2392980; 602394, 2392979; 602382, 2392983; 602341, 2393005; 602325, 2393016; 602322, 2393020; 602321, 2393021; 602289, 2393025; 602244, 2393025; 602190, 2393036; 602171, 2393049; 602155, 2393069; 602138, 2393109; 602127, 2393127; 602126, 2393127; 602118, 2393136; 602118, 2393137; 602094, 2393149; 602093, 2393149; 602071, 2393152; 602048, 2393154; 602026, 2393164; 602013, 2393171; 602012, 2393171; 601992, 2393174; 601980, 2393173; 601979, 2393173; 601924, 2393139; 601898, 2393113; 601898, 2393112; 601897, 2393112; 601897, 2393111; 601907, 2393068; 601978, 2392805; 602085, 2392443; 602110, 2392392; 602148, 2392315; 602150, 2392310; 602186, 2392236; 602370, 2391859; 602391, 2391819; 602383, 2391680; 602368, 2391295; 602366, 2391244; 602439, 2390510; 602435, 2390510; 602412, 2390526; 602382, 2390544; 602370, 2390550; 602369, 2390550; 602314, 2390563; 602299, 2390568; 602284, 2390576; 602227, 2390632; 602226, 2390633; 602204, 2390649; 602106, 2391826; 601550, 2392745; 601471, 2392922; 601043, 2393341; 601032, 2393359; 601715, 2394477; 601720, 2394541; 602274, 2394909; 602311, 2394883; 602318, 2394874; 602318, 2394873; 602338, 2394854; 602339, 2394854; 602344, 2394852; 602375, 2394834; 602415, 2394825; 602444, 2394812; 602454, 2394803; 602460, 2394785; 602461, 2394763; 602463, 2394753; 602467, 2394734; 602482, 2394683; 602499, 2394652; 602500, 2394652; 602520, 2394623; 602547, 2394585; 602564, 2394566; 602565, 2394566; 602606, 2394536; 602607, 2394536; 602621, 2394530; 602638, 2394521; 602641, 2394514; 602641, 2394513; 602642, 2394513; 602645, 2394510; 602645, 2394489; 602642, 2394462; 602636, 2394450; 602636, 2394449; 602632, 2394427; 602632, 2394426; 602640, 2394398; 602640, 2394397; 602674, 2394348; 602678, 2394329; 602673, 2394297; 602677, 2394247; 602677, 2394246; 602687, 2394224; 602704, 2394204; 602768, 2394098; 602768,

2394097; 602769, 2394097; 602793, 2394068; 602793, 2394067; 602794, 2394067; 602801, 2394063; 602827, 2394049; 602828, 2394049; 602844, 2394045; 602871, 2394032; 602887, 2394018; 602900, 2394002; 602916, 2393968; 602910, 2393929; 602910, 2393912; 602910, 2393911; 602933, 2393881; 602988, 2393800; 603003, 2393780; 603040, 2393735; 603041, 2393735; 603051, 2393726; 603070, 2393696; 603083, 2393654; 603104, 2393614; 603105, 2393614; 603125, 2393588; 603155, 2393538; 603167, 2393516; 603193, 2393448; 603201, 2393431; 603201, 2393430; 603202, 2393430; 603213, 2393417; 603232, 2393392; 603233, 2393391; 603242, 2393389; 603275, 2393357; 603287, 2393339; 603325, 2393282; 603333, 2393261; 603332, 2393229; return to starting point.

(ii) NOTE: Map 207 follows:

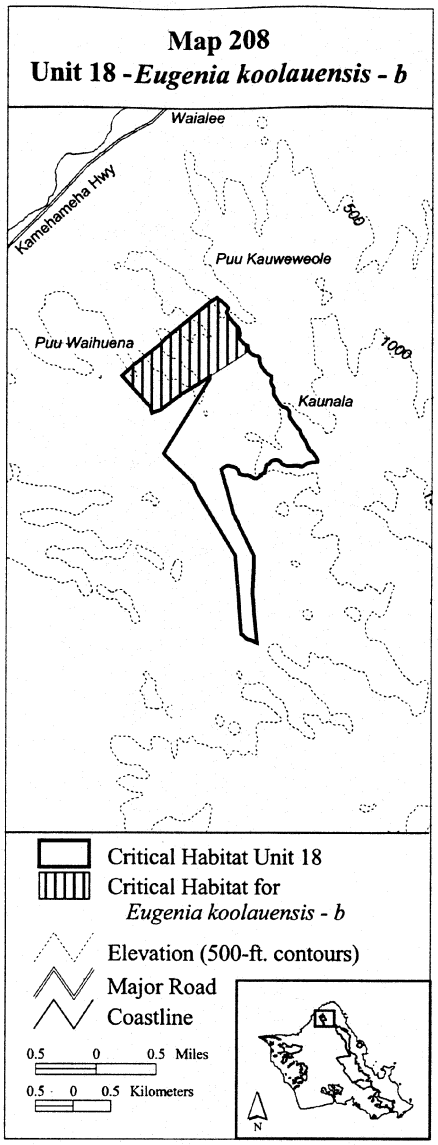


(208) Oahu 19—*Eugenia koolauensis*—b (150 ha; 371 ac)

(i) Unit consists of the following 56 boundary points: Start at 600799, 2394083; 600408, 2394520; 600561, 2394661; 600963, 2394982; 601045, 2395072; 601721, 2395631; 601756, 2395655; 601822, 2395697; 601906, 2395628; 601960, 2395579; 601990, 2395546; 601990, 2395525; 601973, 2395502;

601972, 2395501; 601966, 2395486; 601966, 2395485; 601965, 2395470; 601965, 2395469; 601970, 2395453; 601970, 2395452; 601978, 2395439; 601979, 2395439; 601982, 2395435; 602044, 2395359; 602081, 2395304; 602121, 2395260; 602130, 2395252; 602146, 2395229; 602160, 2395198; 602167, 2395166; 602167, 2395141; 602163, 2395125; 602156, 2395114; 602155, 2395114; 602155, 2395113; 602152, 2395099; 602152, 2395098; 602152, 2395097; 602174, 2395061; 602175, 2395061; 602213, 2395027; 602220, 2395021; 602219, 2395012; 602220, 2395011; 602282, 2394972; 602287, 2394960; 602292, 2394915; 602292, 2394914; 602302, 2394895; 602293, 2394888; 602107, 2394761; 601575, 2394420; 601284, 2394239; 600993, 2394008; 600858, 2393961; 600831, 2394050; return to starting point.

(ii) NOTE: Map 208 follows:



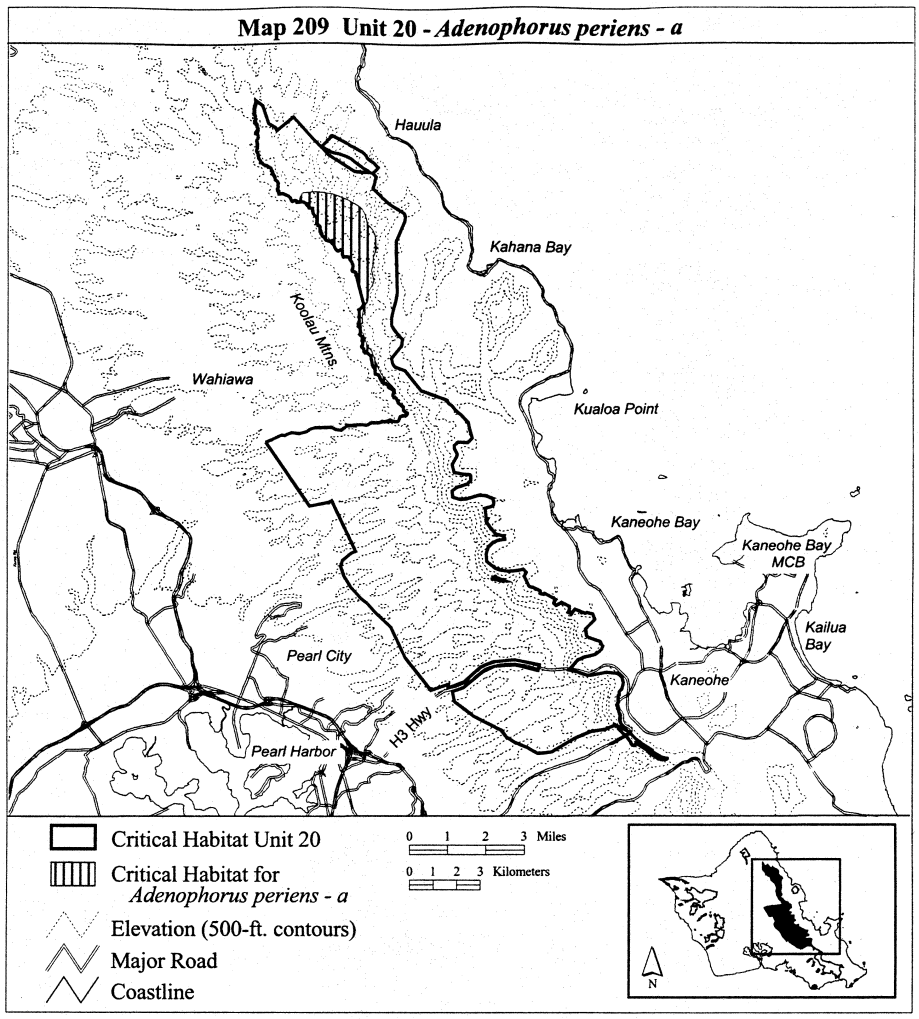
(209) Oahu 20—*Adenophorus periens*—a (712 ha; 1,758 ac)

(i) Unit consists of the following 450 boundary points: Start at 609139, 2387002; 609180, 2387197; 609315, 2387390; 609551, 2387406; 609696, 2387428; 609933, 2387428; 610245, 2387401; 610530, 2387353; 610777, 2387261; 611143, 2387127; 611520, 2386933; 611756, 2386783; 611832, 2386702;

611939, 2386481; 611993, 2386266; 612041, 2386089; 612160, 2385949; 612246, 2385852; 612310, 2385707; 612386, 2385546; 612407, 2385347; 612412, 2385196; 612444, 2385120; 612450, 2385121; 612447, 2385113; 612456, 2385094; 612440, 2385093; 612337, 2384814; 612300, 2384696; 612300, 2384615; 612273, 2384427; 612273, 2384292; 612213, 2384153; 612278, 2383916; 612326, 2383679; 612262, 2383518; 612203, 2383432; 612144, 2383319; 612084, 2383179; 612084, 2383002; 612084, 2382915; 612031, 2382738; 611945, 2382636; 611912, 2382561; 611864, 2382485; 611848, 2382302; 611826, 2382163; 611842, 2381894; 611794, 2381893; 611815, 2381549; 611869, 2381469; 611961, 2381184; 612095, 2380925; 612257, 2380710; 612262, 2380630; 612316, 2380527; 612369, 2380371; 612407, 2380280; 612558, 2379947; 612638, 2379785; 612719, 2379656; 612961, 2379409; 613139, 2379210; 613241, 2379108; 613257, 2379016; 613219, 2378925; 613148, 2378858; 613147, 2378859; 613147, 2378860; 613146, 2378860; 613145, 2378860; 613145, 2378861; 613146, 2378862; 613145, 2378862; 613144, 2378873; 613159, 2378951; 613185, 2378998; 613187, 2379004; 613187, 2379005; 613185, 2379019; 613185, 2379020; 613171, 2379040; 613142, 2379072; 613115, 2379100; 613099, 2379113; 613098, 2379113; 613063, 2379127; 612997, 2379166; 612978, 2379188; 612969, 2379215; 612963, 2379226; 612959, 2379247; 612959, 2379248; 612945, 2379276; 612945, 2379277; 612929, 2379297; 612928, 2379298; 612905, 2379314; 612876, 2379327; 612840, 2379337; 612770, 2379350; 612764, 2379355; 612758, 2379364; 612748, 2379389; 612748, 2379390; 612725, 2379410; 612700, 2379424; 612683, 2379441; 612663, 2379470; 612619, 2379529; 612600, 2379563; 612586, 2379618; 612573, 2379650; 612555, 2379679; 612517, 2379716; 612495, 2379729; 612412, 2379753; 612397, 2379761; 612387, 2379798; 612388, 2379851; 612388, 2379852; 612386, 2379928; 612379, 2379961; 612379, 2379962; 612375, 2379970; 612367, 2379981; 612366, 2379981; 612366, 2379982; 612353, 2379991; 612328, 2380018; 612262, 2380145; 612255, 2380163; 612249, 2380199; 612248, 2380233; 612234, 2380304; 612226, 2380334; 612225, 2380334; 612224, 2380337; 612211, 2380367; 612213, 2380397; 612218, 2380419; 612218, 2380420; 612215, 2380452; 612212, 2380464; 612202, 2380506; 612202, 2380507; 612197, 2380516; 612177, 2380539; 612112, 2380593; 612086, 2380625; 612073, 2380644; 612046, 2380669; 612046, 2380670; 612016, 2380686; 611992, 2380690; 611965, 2380687; 611955, 2380689; 611941, 2380693; 611927, 2380702; 611919, 2380710; 611905, 2380743; 611889, 2380825; 611889, 2380826; 611880, 2380839; 611856, 2380862; 611812, 2380892; 611799, 2380905; 611798, 2380918; 611800, 2380925; 611815, 2380943; 611838, 2380960; 611838, 2380961; 611848, 2380980; 611851, 2381022; 611848, 2381067; 611853, 2381081; 611879, 2381118; 611879, 2381119; 611879, 2381131; 611879, 2381132; 611868, 2381149; 611858, 2381155; 611857, 2381155; 611847, 2381160; 611837, 2381167; 611828, 2381178; 611825, 2381193; 611830, 2381214; 611838, 2381223; 611854, 2381250; 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611046, 2384674; 611039, 2384675; 611028, 2384688; 611014, 2384713; 610994, 2384778; 610981, 2384838; 610976, 2384927; 610973, 2384941; 610973, 2384942; 610965, 2384959; 610965, 2384960; 610957, 2384969; 610957, 2384970; 610934, 2384987; 610933, 2384987; 610909, 2384993; 610908, 2384993; 610888, 2384986; 610839, 2384956; 610809, 2384945; 610780, 2384942; 610766, 2384942; 610749, 2384953; 610709, 2384995; 610692, 2385014; 610679, 2385041; 610630, 2385180; 610616, 2385205; 610606, 2385215; 610606, 2385216; 610598, 2385220; 610558, 2385236; 610543, 2385248; 610533, 2385266; 610516, 2385329; 610509, 2385341; 610509, 2385342; 610508, 2385342; 610497, 2385351; 610496, 2385351; 610454, 2385362; 610440, 2385362; 610440, 2385363; 610394, 2385362; 610370, 2385370; 610333, 2385392; 610292, 2385406; 610280, 2385413; 610261, 2385429; 610248, 2385449; 610237, 2385473; 610222, 2385512; 610222, 2385513; 610214, 2385522; 610206, 2385531; 610206, 2385532; 610187, 2385540; 610166, 2385544; 610134, 2385558; 610129, 2385561; 610122, 2385580; 610119, 2385604; 610119, 2385605; 610112, 2385620; 610111, 2385621; 610093, 2385637; 610078, 2385652; 610077, 2385659; 610090, 2385687; 610097, 2385698; 610098, 2385699; 610098, 2385700; 610097, 2385705; 610097, 2385706; 610081, 2385734; 610054, 2385762; 610039, 2385790; 610028, 2385816; 610024, 2385839; 610027, 2385873; 610035, 2385901; 610035, 2385902; 610035, 2385943; 610035, 2385944; 610029, 2385956; 610029, 2385957; 610003, 2385991; 609994, 2386004; 609993, 2386004; 609993, 2386005; 609971, 2386017; 609955, 2386025; 609948, 2386031; 609929, 2386085; 609909, 2386112; 609908, 2386113; 609898, 2386121; 609887, 2386134; 609883, 2386146; 609884, 2386168; 609879, 2386204; 609884, 2386223; 609905, 2386254; 609905, 2386255; 609909, 2386278; 609909, 2386279; 609907, 2386291; 609881, 2386354; 609880, 2386355; 609858, 2386384; 609834, 2386404; 609797, 2386443; 609797, 2386444; 609790, 2386450; 609769, 2386468; 609748, 2386495; 609737, 2386524; 609719, 2386644; 609711, 2386719; 609711, 2386720; 609705, 2386737; 609704, 2386737; 609704, 2386738; 609693, 2386745; 609692, 2386745; 609595, 2386759; 609570, 2386766; 609560, 2386772; 609536, 2386797; 609481, 2386863; 609461, 2386894; 609449, 2386918; 609449, 2386919; 609439, 2386933; 609438, 2386934; 609425, 2386943; 609379, 2386966; 609323, 2387005; 609308, 2387012; 609269, 2387020; 609248, 2387021; 609184, 2387014; return to starting point.

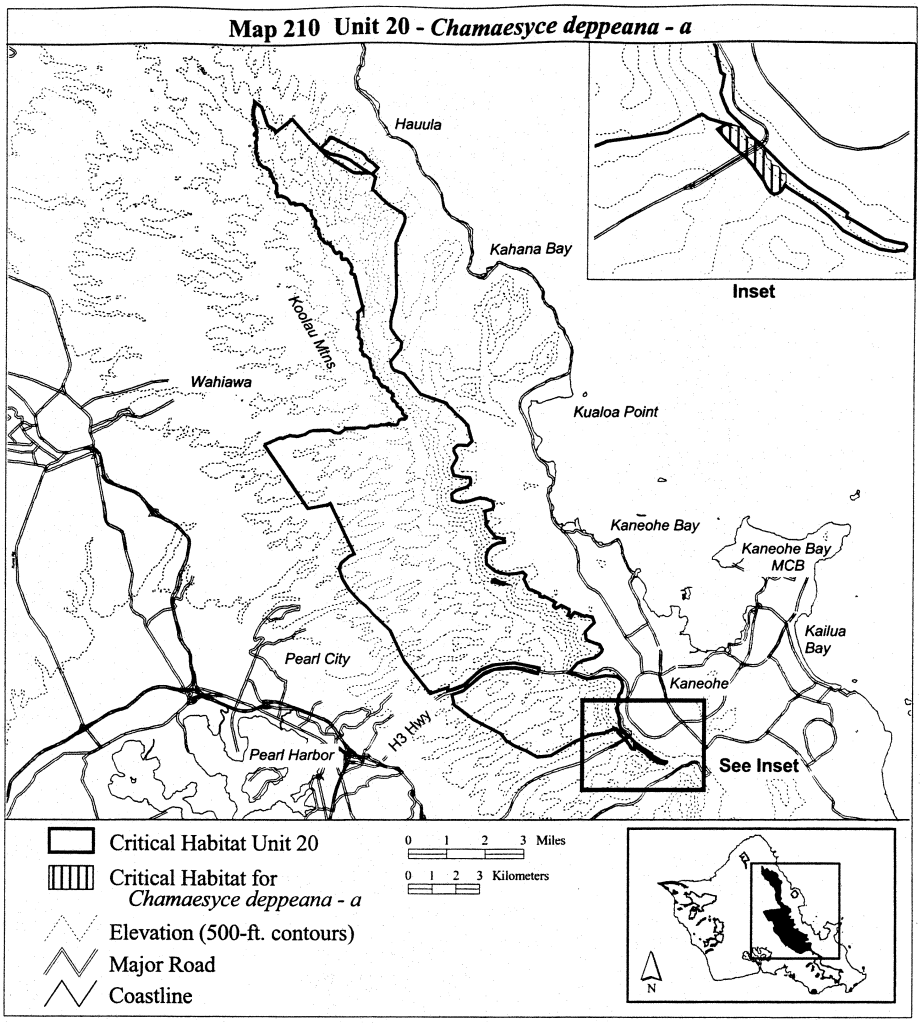
(ii) NOTE: Map 209 follows:



(210) Oahu 20—*Chamaesyce deppeana*—a (18 ha; 44 ac)

(i) Unit consists of the following 48 boundary points: Start at 622671, 2364767; 622720, 2364796; 622771, 2364821; 622817, 2364830; 622857, 2364807; 622899, 2364799; 622920, 2364796; 622942, 2364771; 622976, 2364700; 623023, 2364673; 623074, 2364653; 623094, 2364624; 623117, 2364592; 623151, 2364556; 623191, 2364531; 623196, 2364502; 623209, 2364466; 623214, 2364453; 623249, 2364431; 623254, 2364408; 623279, 2364384; 623312, 2364381; 623335, 2364375; 623352, 2364359; 623368, 2364310; 623381, 2364298; 623413, 2364298; 623420, 2364281; 623420, 2364240; 623420, 2364209; 623400, 2364155; 623364, 2364105; 623319, 2364081; 623279, 2364081; 623249, 2364097; 623241, 2364108; 623241, 2364109; 623241, 2364110; 623241, 2364111; 623228, 2364125; 623207, 2364153; 623173, 2364222; 623101, 2364323; 623047, 2364388; 622978, 2364471; 622920, 2364518; 622804, 2364622; 622791, 2364629; return to starting point.

(ii) NOTE: Map 210 follows:



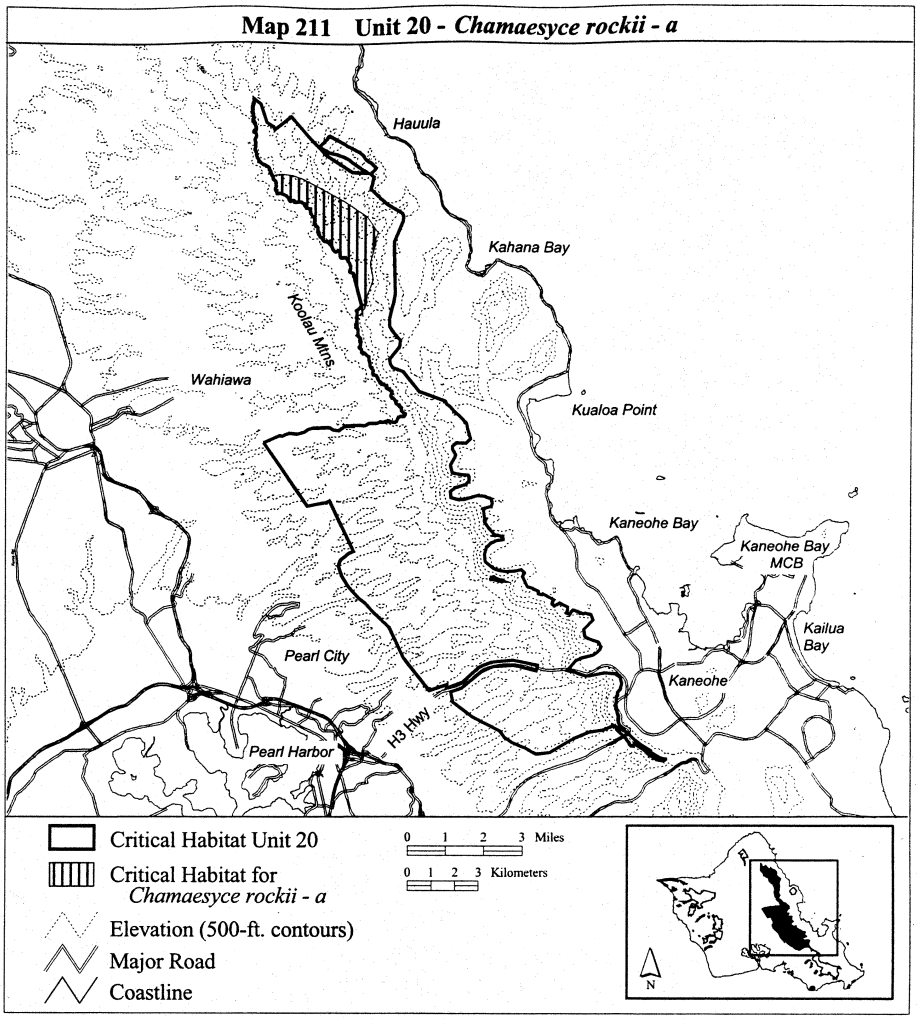
(211) Oahu 20—*Chamaesyce rockii*—a (825 ha; 2,039 ac)

(i) Unit consists of the following 363 boundary points: Start at 608102, 2388099; 608104, 2388099; 608430, 2388155; 608627, 2388161; 608627, 2388154; 608941, 2388106; 609416, 2387958; 610001, 2387662; 611153, 2387052; 612132, 2386418; 612559, 2385801; 612588, 2385802; 612563, 2385697; 612496, 2385537; 612490, 2385426; 612496, 2385346; 612471, 2385235; 612366, 2384841; 612262, 2384483; 612280, 2384317; 612348, 2384058; 612385, 2383775; 612274, 2383461; 612163, 2383215; 612108, 2383005; 612120, 2382814; 612021, 2382543; 611923, 2382389; 611812, 2382260; 611752, 2382233; 611766, 2381817; 611781, 2381470; 611731, 2381430; 611737, 2381446; 611745, 2381514; 611746, 2381550; 611748, 2381618; 611748, 2381619; 611739, 2381669; 611736, 2381680; 611736, 2381681; 611727, 2381699; 611727, 2381700; 611726, 2381700; 611673, 2381758; 611666, 2381774; 611666, 2381794; 611670, 2381810; 611702, 2381865; 611702, 2381866; 611712, 2381882; 611712, 2381883; 611712, 2381915; 611712, 2381916; 611710, 2381923; 611687,

2381955; 611687, 2381978; 611695, 2381990; 611702, 2382013; 611702, 2382014; 611700, 2382058; 611694, 2382120; 611695, 2382225; 611701, 2382278; 611701, 2382279; 611699, 2382320; 611695, 2382360; 611693, 2382433; 611692, 2382455; 611698, 2382473; 611744, 2382512; 611805, 2382557; 611831, 2382588; 611844, 2382604; 611844, 2382605; 611850, 2382621; 611874, 2382653; 611896, 2382683; 611896, 2382684; 611903, 2382704; 611903, 2382705; 611903, 2382706; 611902, 2382707; 611901, 2382707; 611900, 2382707; 611900, 2382706; 611899, 2382706; 611892, 2382686; 611891, 2382684; 611795, 2383056; 611597, 2383822; 611567, 2383939; 611567, 2383940; 611561, 2383949; 611537, 2384020; 611536, 2384020; 611525, 2384040; 611515, 2384051; 611495, 2384064; 611460, 2384078; 611430, 2384082; 611404, 2384097; 611396, 2384120; 611393, 2384150; 611397, 2384172; 611413, 2384204; 611422, 2384233; 611428, 2384263; 611435, 2384302; 611435, 2384321; 611429, 2384356; 611429, 2384357; 611417, 2384382; 611394, 2384464; 611387, 2384476; 611374, 2384488; 611374, 2384489; 611358, 2384501; 611334, 2384524; 611326, 2384536; 611302, 2384584; 611257, 2384667; 611256, 2384667; 611245, 2384680; 611244, 2384681; 611224, 2384695; 611223, 2384695; 611203, 2384703; 611202, 2384704; 611192, 2384704; 611191, 2384703; 611165, 2384698; 611119, 2384696; 611118, 2384696; 611082, 2384690; 611081, 2384690; 611065, 2384682; 611064, 2384681; 611058, 2384675; 611046, 2384674; 611039, 2384675; 611028, 2384688; 611014, 2384713; 610994, 2384778; 610981, 2384838; 610976, 2384927; 610973, 2384941; 610973, 2384942; 610965, 2384959; 610965, 2384960; 610957, 2384969; 610957, 2384970; 610934, 2384987; 610933, 2384987; 610909, 2384993; 610908, 2384993; 610888, 2384986; 610839, 2384956; 610809, 2384945; 610780, 2384942; 610766, 2384942; 610749, 2384953; 610709, 2384995; 610692, 2385014; 610679, 2385041; 610630, 2385180; 610616, 2385205; 610606, 2385215; 610606, 2385216; 610598, 2385220; 610558, 2385236; 610543, 2385248; 610533, 2385266; 610516, 2385329; 610509, 2385341; 610509, 2385342; 610508, 2385342; 610497, 2385351; 610496, 2385351; 610454, 2385362; 610440, 2385362; 610394, 2385362; 610370, 2385370; 610333, 2385392; 610292, 2385406; 610280, 2385413; 610261, 2385429; 610248, 2385449; 610237, 2385473; 610222, 2385512; 610222, 2385513; 610214, 2385522; 610206, 2385531; 610206, 2385532; 610187, 2385540; 610166, 2385544; 610134, 2385558; 610129, 2385561; 610122, 2385580; 610119, 2385604; 610119, 2385605; 610112, 2385620; 610111, 2385621; 610093, 2385637; 610078, 2385652; 610077, 2385659; 610090, 2385687; 610097, 2385698; 610098, 2385699; 610098, 2385700; 610097, 2385705; 610097, 2385706; 610081, 2385734; 610054, 2385762; 610039, 2385790; 610028, 2385816; 610024, 2385839; 610027, 2385873; 610035, 2385901; 610035, 2385902; 610035, 2385943; 610035, 2385944; 610029, 2385956; 610029, 2385957; 610003, 2385991; 609994, 2386004; 609993, 2386004; 609993, 2386005; 609971, 2386017; 609955, 2386025; 609948, 2386031; 609929, 2386085; 609909, 2386112; 609908, 2386113; 609898, 2386121; 609887, 2386134; 609883, 2386146; 609884, 2386168; 609879, 2386204; 609884, 2386223; 609905, 2386254; 609905, 2386255; 609909, 2386278; 609909, 2386279; 609907, 2386291; 609881, 2386354; 609880, 2386355; 609858, 2386384; 609834, 2386404; 609797, 2386443; 609797, 2386444; 609790, 2386450; 609769, 2386468; 609748, 2386495; 609737, 2386524; 609719, 2386644; 609711, 2386719; 609711, 2386720; 609705, 2386737; 609704, 2386737; 609704, 2386738; 609693, 2386745; 609692, 2386745; 609595, 2386759; 609570, 2386766; 609560, 2386772; 609536, 2386797; 609481, 2386863; 609461, 2386894; 609449, 2386918; 609449, 2386919; 609439, 2386933; 609438, 2386934; 609425, 2386943; 609379, 2386966; 609323, 2387005; 609322, 2387005; 609308, 2387012; 609269, 2387020; 609248, 2387021; 609184, 2387014; 609134, 2387001; 609078, 2386982; 609074, 2386984; 609062, 2387000; 609048, 2387031; 609047, 2387032; 609025, 2387051; 609024, 2387051; 608989, 2387068; 608988, 2387068; 608975, 2387068; 608974, 2387068; 608905, 2387055; 608862, 2387042; 608856, 2387043; 608849, 2387049; 608810, 2387121; 608794, 2387150; 608794, 2387151; 608776, 2387175; 608736, 2387223; 608719, 2387246; 608718, 2387246; 608718, 2387247; 608693, 2387265; 608692, 2387265; 608643, 2387281; 608604, 2387303; 608558, 2387325; 608497, 2387362; 608496, 2387362; 608459, 2387369; 608458, 2387369; 608435, 2387371; 608434, 2387371; 608410, 2387366; 608377, 2387354; 608355, 2387351; 608336, 2387351; 608316, 2387358; 608308, 2387366; 608294, 2387395; 608292, 2387413; 608300, 2387459; 608299, 2387471; 608298, 2387472; 608298, 2387473; 608289, 2387479; 608252, 2387489; 608234, 2387501; 608228, 2387506; 608223, 2387520; 608230, 2387572; 608232, 2387576; 608238, 2387590; 608252, 2387607; 608267, 2387627; 608267, 2387628; 608272, 2387642; 608275, 2387670; 608275, 2387671; 608273, 2387689; 608258, 2387739; 608257, 2387765; 608259, 2387774; 608270, 2387794; 608274, 2387812; 608274, 2387813; 608254, 2387851; 608254,

2387852; 608227, 2387885; 608190, 2387914; 608165, 2387924; 608146, 2387938; 608143, 2387944; 608141, 2387956; 608156, 2388000; 608156, 2388001; 608156, 2388002; 608152, 2388015; 608129, 2388052; 608116, 2388066; return to starting point.

(ii) NOTE: Map 211 follows:

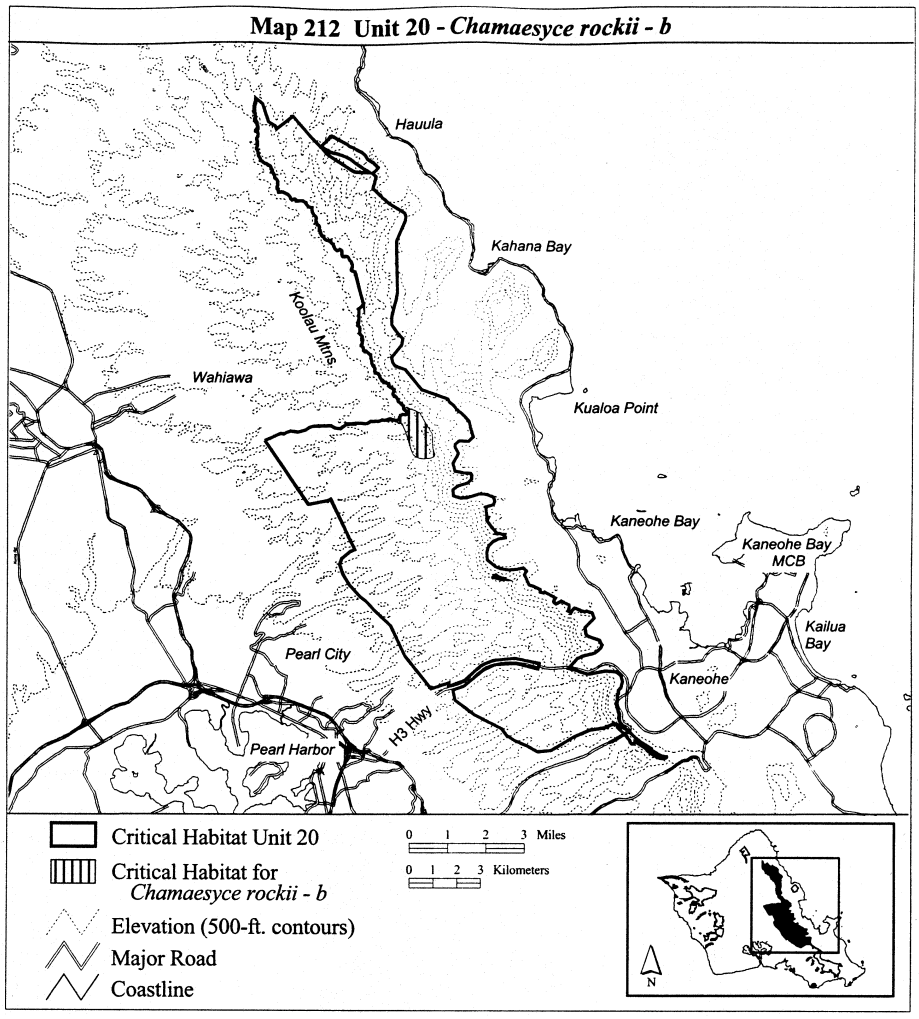


(212) Oahu 20—*Chamaesyce rockii*—b (197 ha; 487 ac)

(i) Unit consists of the following 49 boundary points: Start at 613058, 2377772; 613083, 2377776; 613146, 2377768; 613220, 2377736; 613266, 2377726; 613342, 2377738; 613361, 2377750; 613368, 2377747; 613413, 2377754; 613415, 2377755; 613449, 2377784; 613454, 2377825; 613460, 2377881; 613497, 2377929; 613554, 2377977; 613555, 2377986; 613676, 2377976; 613697, 2377987; 613721, 2377976; 613733, 2377976; 613762, 2378001; 613771, 2378068; 613764, 2378090; 613757, 2378093; 613754, 2378093; 613750,

2378096; 613719, 2378107; 613693, 2378145; 613608, 2378209; 613592, 2378229; 613742, 2378300; 613892, 2378229; 614077, 2378166; 614294, 2378060; 614314, 2377969; 614803, 2377164; 614811, 2376545; 614906, 2376292; 614870, 2376202; 614712, 2376131; 614412, 2376111; 614235, 2376135; 614014, 2376257; 613919, 2376438; 613663, 2377259; 613529, 2377598; 613024, 2377732; 613011, 2377758; 613040, 2377760; return to starting point.

(ii) NOTE: Map 212 follows:

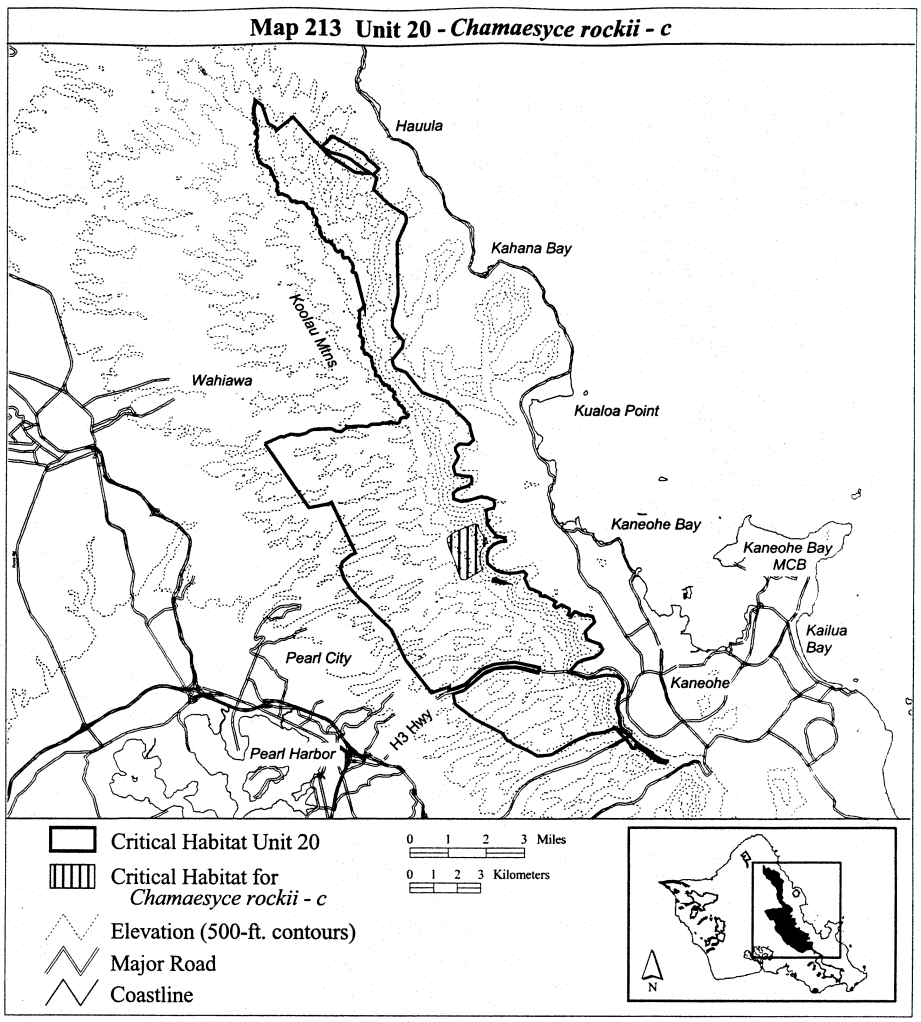


(213) Oahu 20—*Chamaesyce rockii*—c (258 ha; 639 ac)

(i) Unit consists of the following 24 boundary points: Start at 616808, 2373189; 616937, 2372986; 617094, 2372792; 617131, 2372718; 616965, 2372533; 616836, 2372311; 616817, 2372043; 616836, 2371794; 616963, 2371582; 616212, 2371122; 616003, 2371142; 615865, 2371461; 615736, 2371941; 615496, 2372468; 615422, 2372690; 615413, 2372893; 615625, 2373078; 615810, 2373180;

616106, 2373309; 616457, 2373448; 616623, 2373503; 616697, 2373457; 616752, 2373448; 616752, 2373337; return to starting point.

(ii) NOTE: Map 213 follows:



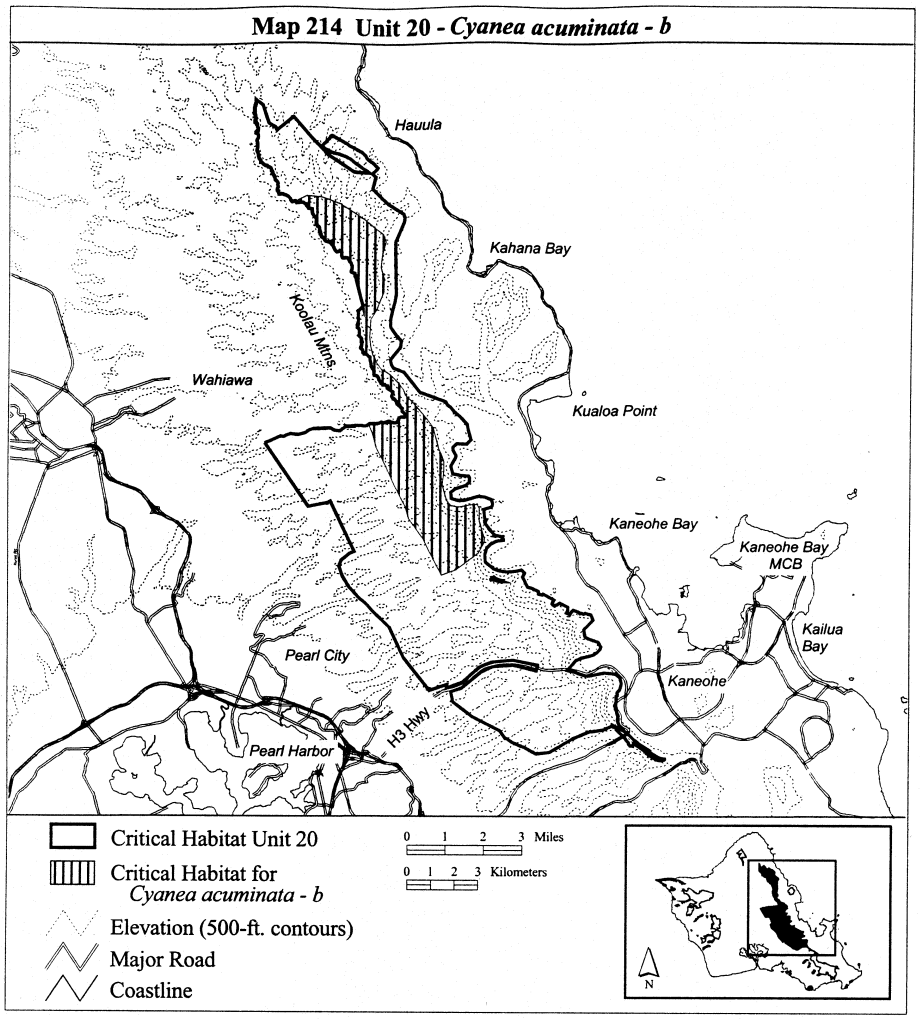
(214) Oahu 20—*Cyanea acuminata*—b (2,522 ha; 6,231 ac)

(i) Unit consists of the following 537 boundary: Start at 612247, 2377695; 612255, 2377697; 612402, 2377690; 612402, 2377689; 612403, 2377685; 612432, 2377673; 612468, 2377676; 612482, 2377684; 612483, 2377688; 612505, 2377688; 612575, 2377698; 612596, 2377708; 612604, 2377703; 612630, 2377702; 612668, 2377720; 612688, 2377749; 612686, 2377751; 612705, 2377757; 612764, 2377738; 612765, 2377738; 612794, 2377742; 612814, 2377728; 612853, 2377742; 612870, 2377747; 613040, 2377760; 613059, 2377772; 613059, 2377774; 613085, 2377777; 613154, 2377768; 613224, 2377738; 613264, 2377728; 613265, 2377728; 613335, 2377738; 613336,

2377738; 613359, 2377752; 613368, 2377747; 613413, 2377754; 613415, 2377755; 613449, 2377784; 613454, 2377825; 613460, 2377881; 613497, 2377929; 613554, 2377977; 613555, 2377987; 613674, 2377978; 613675, 2377978; 613694, 2377988; 613721, 2377976; 613733, 2377976; 613762, 2378001; 613771, 2378068; 613764, 2378090; 613757, 2378093; 613753, 2378093; 613751, 2378091; 613747, 2378094; 613746, 2378095; 613718, 2378106; 613711, 2378117; 613691, 2378143; 613660, 2378168; 613602, 2378212; 613593, 2378224; 613586, 2378238; 613583, 2378253; 613583, 2378292; 613583, 2378328; 613583, 2378329; 613568, 2378356; 613556, 2378372; 613524, 2378400; 613517, 2378408; 613476, 2378444; 613462, 2378463; 613462, 2378464; 613447, 2378478; 613424, 2378499; 613386, 2378532; 613364, 2378562; 613346, 2378613; 613330, 2378641; 613265, 2378728; 613248, 2378749; 613247, 2378750; 613232, 2378759; 613213, 2378764; 613199, 2378769; 613190, 2378778; 613172, 2378818; 613172, 2378819; 613152, 2378848; 613147, 2378859; 613147, 2378860; 613146, 2378860; 613145, 2378860; 613145, 2378861; 613146, 2378862; 613144, 2378873; 613159, 2378951; 613185, 2378998; 613187, 2379004; 613187, 2379005; 613185, 2379019; 613185, 2379020; 613171, 2379040; 613142, 2379072; 613115, 2379100; 613099, 2379113; 613098, 2379113; 613063, 2379127; 612997, 2379166; 612978, 2379188; 612969, 2379215; 612963, 2379226; 612959, 2379247; 612959, 2379248; 612945, 2379276; 612945, 2379277; 612929, 2379297; 612928, 2379298; 612905, 2379314; 612876, 2379327; 612840, 2379337; 612770, 2379350; 612764, 2379355; 612758, 2379364; 612748, 2379389; 612748, 2379390; 612725, 2379410; 612700, 2379424; 612683, 2379441; 612663, 2379470; 612619, 2379529; 612600, 2379563; 612586, 2379618; 612573, 2379650; 612555, 2379679; 612517, 2379716; 612495, 2379729; 612412, 2379753; 612397, 2379761; 612387, 2379798; 612388, 2379851; 612386, 2379928; 612379, 2379961; 612379, 2379962; 612375, 2379970; 612367, 2379981; 612366, 2379981; 612366, 2379982; 612353, 2379991; 612328, 2380018; 612262, 2380145; 612255, 2380163; 612249, 2380199; 612248, 2380233; 612234, 2380304; 612226, 2380334; 612225, 2380334; 612224, 2380337; 612211, 2380367; 612213, 2380397; 612218, 2380419; 612218, 2380420; 612215, 2380452; 612212, 2380464; 612202, 2380506; 612202, 2380507; 612197, 2380516; 612177, 2380539; 612112, 2380593; 612086, 2380625; 612073, 2380644; 612046, 2380669; 612046, 2380670; 612016, 2380686; 611992, 2380690; 611965, 2380687; 611955, 2380689; 611941, 2380693; 611927, 2380702; 611919, 2380710; 611905, 2380743; 611889, 2380825; 611889, 2380826; 611880, 2380839; 611856, 2380862; 611812, 2380892; 611799, 2380905; 611798, 2380918; 611800, 2380925; 611815, 2380943; 611838, 2380960; 611838, 2380961; 611848, 2380980; 611851, 2381022; 611848, 2381067; 611853, 2381081; 611879, 2381118; 611879, 2381119; 611879, 2381131; 611879, 2381132; 611868, 2381149; 611858, 2381155; 611857, 2381155; 611847, 2381160; 611837, 2381167; 611828, 2381178; 611825, 2381193; 611830, 2381214; 611838, 2381223; 611854, 2381250; 611854, 2381251; 611856, 2381258; 611855, 2381265; 611855, 2381266; 611849, 2381285; 611848, 2381285; 611848, 2381286; 611828, 2381312; 611784, 2381363; 611765, 2381383; 611734, 2381424; 611733, 2381424; 611730, 2381426; 611737, 2381446; 611745, 2381514; 611746, 2381550; 611748, 2381618; 611748, 2381619; 611739, 2381669; 611736, 2381680; 611736, 2381681; 611727, 2381699; 611726, 2381700; 611673, 2381758; 611666, 2381774; 611666, 2381794; 611670, 2381810; 611702, 2381865; 611712, 2381882; 611712, 2381883; 611712, 2381915; 611712, 2381916; 611710, 2381923; 611687, 2381955; 611687, 2381978; 611695, 2381990; 611702, 2382013; 611702, 2382014; 611700, 2382058; 611694, 2382120; 611695, 2382225; 611701, 2382278; 611701, 2382279; 611699, 2382320; 611695, 2382360; 611693, 2382433; 611692, 2382455; 611698, 2382473; 611744, 2382512; 611805, 2382557; 611831, 2382588; 611844, 2382604; 611844, 2382605; 611850, 2382621; 611874, 2382653; 611896, 2382683; 611896, 2382684; 611903, 2382704; 611903, 2382705; 611903, 2382706; 611902, 2382707; 611901, 2382707; 611900, 2382707; 611900, 2382706; 611899, 2382706; 611892, 2382686; 611891, 2382684; 611795, 2383056; 611597, 2383822; 611567, 2383939; 611567, 2383940; 611561, 2383949; 611537, 2384020; 611536, 2384020; 611525, 2384040; 611515, 2384051; 611495, 2384064; 611460, 2384078; 611430, 2384082; 611404, 2384097; 611396, 2384120; 611393, 2384150; 611397, 2384172; 611413, 2384204; 611422, 2384233; 611428, 2384263; 611435, 2384302; 611435, 2384321; 611429, 2384356; 611429, 2384357; 611417, 2384382; 611394, 2384464; 611387, 2384476; 611374, 2384488; 611374, 2384489; 611358, 2384501; 611334, 2384524; 611326, 2384536; 611302, 2384584; 611257, 2384667; 611256, 2384667; 611245, 2384680; 611244, 2384681; 611224, 2384695; 611223, 2384695; 611203, 2384703; 611202, 2384704; 611192, 2384704; 611191, 2384703; 611165, 2384698; 611119, 2384696; 611082, 2384690; 611081, 2384690; 611065, 2384682; 611058, 2384675; 611046, 2384674; 611039,

2384675; 611028, 2384688; 611014, 2384713; 610994, 2384778; 610981, 2384838; 610976, 2384927; 610973, 2384941; 610973, 2384942; 610965, 2384959; 610965, 2384960; 610957, 2384969; 610957, 2384970; 610934, 2384987; 610933, 2384987; 610909, 2384993; 610908, 2384993; 610888, 2384986; 610839, 2384956; 610809, 2384945; 610780, 2384942; 610766, 2384942; 610749, 2384953; 610709, 2384995; 610692, 2385014; 610679, 2385041; 610630, 2385180; 610616, 2385205; 610606, 2385215; 610606, 2385216; 610598, 2385220; 610558, 2385236; 610543, 2385248; 610533, 2385266; 610516, 2385329; 610509, 2385341; 610509, 2385342; 610497, 2385351; 610496, 2385351; 610454, 2385362; 610440, 2385362; 610394, 2385362; 610370, 2385370; 610333, 2385392; 610292, 2385406; 610280, 2385413; 610261, 2385429; 610248, 2385449; 610237, 2385473; 610222, 2385512; 610222, 2385513; 610214, 2385522; 610206, 2385531; 610206, 2385532; 610187, 2385540; 610166, 2385544; 610134, 2385558; 610129, 2385561; 610122, 2385580; 610119, 2385604; 610119, 2385605; 610112, 2385620; 610111, 2385621; 610093, 2385637; 610078, 2385652; 610077, 2385659; 610090, 2385687; 610097, 2385698; 610098, 2385699; 610098, 2385700; 610097, 2385705; 610097, 2385706; 610081, 2385734; 610054, 2385762; 610039, 2385790; 610028, 2385816; 610024, 2385839; 610027, 2385873; 610035, 2385901; 610035, 2385902; 610035, 2385943; 610035, 2385944; 610029, 2385956; 610029, 2385957; 610003, 2385991; 609994, 2386004; 609993, 2386004; 609993, 2386005; 609971, 2386017; 609955, 2386025; 609948, 2386031; 609929, 2386085; 609909, 2386112; 609898, 2386121; 609887, 2386134; 609883, 2386146; 609884, 2386168; 609879, 2386204; 609884, 2386223; 609905, 2386254; 609905, 2386255; 609909, 2386278; 609909, 2386279; 609907, 2386291; 609881, 2386354; 609880, 2386355; 609858, 2386384; 609834, 2386404; 609797, 2386443; 609790, 2386450; 609769, 2386468; 609748, 2386495; 609737, 2386524; 609719, 2386644; 609711, 2386719; 609711, 2386720; 609705, 2386737; 609704, 2386737; 609704, 2386738; 609693, 2386745; 609692, 2386745; 609595, 2386759; 609570, 2386766; 609560, 2386772; 609536, 2386797; 609481, 2386863; 609461, 2386894; 609449, 2386918; 609449, 2386919; 609439, 2386933; 609438, 2386934; 609425, 2386943; 609379, 2386966; 609323, 2387005; 609308, 2387012; 609269, 2387020; 609248, 2387021; 609184, 2387014; 609134, 2387001; 609097, 2386989; 609123, 2387120; 609493, 2387295; 610141, 2387223; 610912, 2386955; 611467, 2386606; 612012, 2386246; 612444, 2385917; 612742, 2385701; 612825, 2385516; 612876, 2385382; 612701, 2384755; 612660, 2384313; 612814, 2383830; 612783, 2383285; 612598, 2382802; 612485, 2382504; 612228, 2382092; 612197, 2381352; 612228, 2380972; 612333, 2380571; 612372, 2380571; 612475, 2380345; 612681, 2380026; 613112, 2379748; 613472, 2379378; 613647, 2379142; 613719, 2378915; 614038, 2378638; 614336, 2378299; 614675, 2377877; 614901, 2377548; 615045, 2377013; 615128, 2376684; 615241, 2376458; 615374, 2376109; 615374, 2375728; 615354, 2375471; 615302, 2375111; 615385, 2374782; 615494, 2374431; 615498, 2374433; 615662, 2374248; 615786, 2374207; 616032, 2374176; 616258, 2374227; 616495, 2374258; 616773, 2374279; 616865, 2374145; 616865, 2373898; 616865, 2373579; 616947, 2373250; 617019, 2373035; 617081, 2372880; 617081, 2372675; 616958, 2372428; 616855, 2372214; 615893, 2371500; 615279, 2371259; 615220, 2371369; 614768, 2372233; 614490, 2372808; 613853, 2373682; 613871, 2373690; 613709, 2374196; 613256, 2375091; 612866, 2375944; 612496, 2376674; 612310, 2377312; 612177, 2377626; 612247, 2377687; return to starting point.

(ii) NOTE: Map 214 follows:

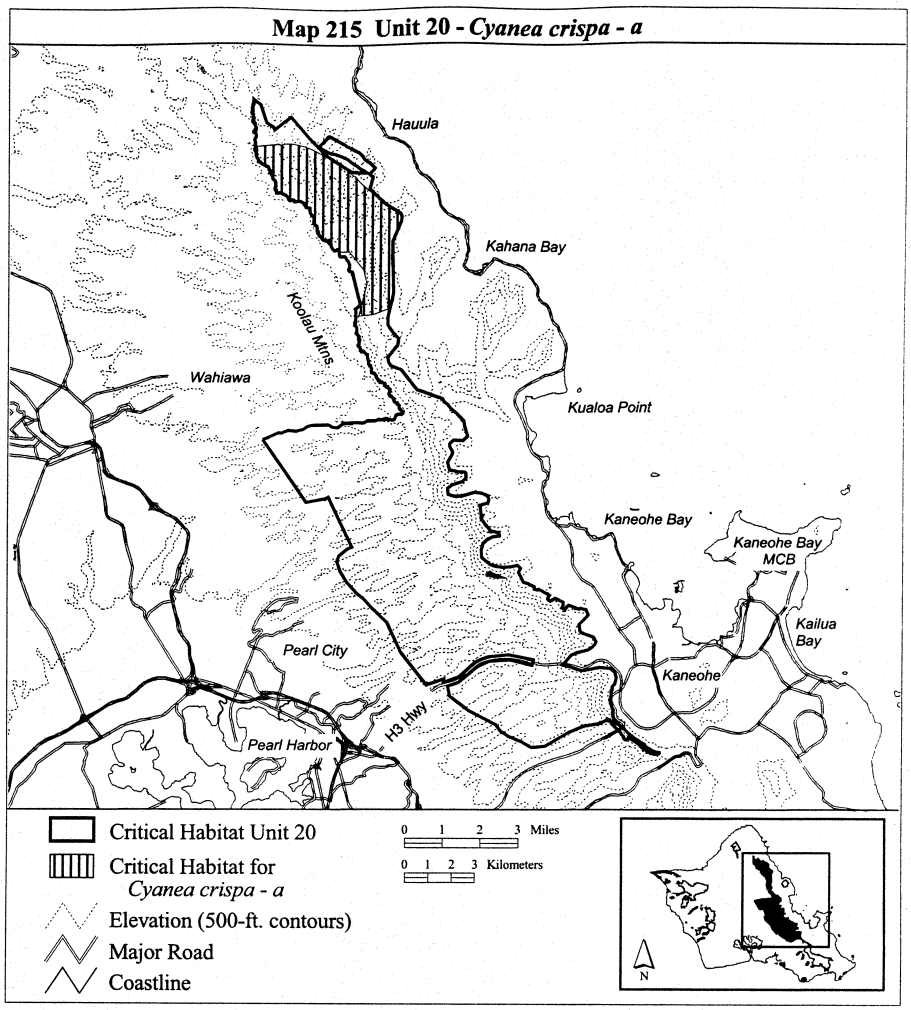


(215) Oahu 20—*Cyanea crispa*—a (1,831 ha; 4,525 ac)

(i) Unit consists of the following 326 boundary points: Start at 607399, 2389315; 608317, 2389401; 608490, 2389389; 608490, 2389387; 608704, 2389418; 608998, 2389418; 609459, 2389349; 609794, 2389211; 610458, 2388905; 610724, 2388690; 610978, 2388578; 611675, 2388051; 611900, 2387826; 612915, 2386959; 612933, 2386966; 613504, 2386561; 613647, 2386386; 613617, 2386176; 613441, 2385755; 613242, 2385368; 613234, 2385195; 613204, 2384658; 613279, 2383989; 613298, 2383575; 613298, 2383305; 613250, 2383066; 613234, 2382844; 613147, 2382562; 613073, 2382491; 612466, 2382243; 611823, 2382158; 612178, 2383560; 612031, 2384175; 611415, 2384914; 610979, 2384884; 610976, 2384927; 610973, 2384941; 610973, 2384942; 610965, 2384959; 610965, 2384960; 610957, 2384969; 610957, 2384970; 610934, 2384987; 610933, 2384987; 610909, 2384993; 610908, 2384993; 610888, 2384986; 610839, 2384956; 610809, 2384945; 610780, 2384942; 610766, 2384942; 610749, 2384953; 610709, 2384995; 610692, 2385014; 610679, 2385041; 610630, 2385180; 610616, 2385205; 610606, 2385215;

610606, 2385216; 610598, 2385220; 610558, 2385236; 610543, 2385248; 610533, 2385266; 610516, 2385329; 610509, 2385341; 610509, 2385342; 610508, 2385342; 610497, 2385351; 610496, 2385351; 610454, 2385362; 610440, 2385362; 610394, 2385362; 610370, 2385370; 610333, 2385392; 610292, 2385406; 610280, 2385413; 610261, 2385429; 610248, 2385449; 610237, 2385473; 610222, 2385512; 610222, 2385513; 610214, 2385522; 610206, 2385531; 610206, 2385532; 610187, 2385540; 610166, 2385544; 610134, 2385558; 610129, 2385561; 610122, 2385580; 610119, 2385604; 610119, 2385605; 610112, 2385620; 610111, 2385621; 610093, 2385637; 610078, 2385652; 610077, 2385659; 610090, 2385687; 610097, 2385698; 610098, 2385699; 610098, 2385700; 610097, 2385705; 610097, 2385706; 610081, 2385734; 610054, 2385762; 610039, 2385790; 610028, 2385816; 610024, 2385839; 610027, 2385873; 610035, 2385901; 610035, 2385902; 610035, 2385943; 610035, 2385944; 610029, 2385956; 610029, 2385957; 610003, 2385991; 609994, 2386004; 609993, 2386004; 609993, 2386005; 609971, 2386017; 609955, 2386025; 609948, 2386031; 609929, 2386085; 609909, 2386112; 609908, 2386113; 609898, 2386121; 609887, 2386134; 609883, 2386146; 609884, 2386168; 609879, 2386204; 609884, 2386223; 609905, 2386254; 609905, 2386255; 609909, 2386278; 609909, 2386279; 609907, 2386291; 609881, 2386354; 609880, 2386355; 609858, 2386384; 609834, 2386404; 609797, 2386443; 609790, 2386450; 609769, 2386468; 609748, 2386495; 609737, 2386524; 609719, 2386644; 609711, 2386719; 609711, 2386720; 609705, 2386737; 609704, 2386737; 609704, 2386738; 609693, 2386745; 609692, 2386745; 609595, 2386759; 609570, 2386766; 609560, 2386772; 609536, 2386797; 609481, 2386863; 609461, 2386894; 609449, 2386918; 609449, 2386919; 609439, 2386933; 609438, 2386934; 609425, 2386943; 609379, 2386966; 609323, 2387005; 609308, 2387012; 609269, 2387020; 609248, 2387021; 609184, 2387014; 609134, 2387001; 609078, 2386982; 609074, 2386984; 609062, 2387000; 609048, 2387031; 609047, 2387032; 609025, 2387051; 609024, 2387051; 608989, 2387068; 608988, 2387068; 608975, 2387068; 608975, 2387069; 608974, 2387068; 608905, 2387055; 608862, 2387042; 608856, 2387043; 608849, 2387049; 608810, 2387121; 608794, 2387150; 608794, 2387151; 608776, 2387175; 608736, 2387223; 608719, 2387246; 608718, 2387246; 608718, 2387247; 608693, 2387265; 608692, 2387265; 608643, 2387281; 608604, 2387303; 608558, 2387325; 608497, 2387362; 608496, 2387362; 608459, 2387369; 608458, 2387369; 608435, 2387371; 608434, 2387371; 608410, 2387366; 608377, 2387354; 608355, 2387351; 608336, 2387351; 608316, 2387358; 608308, 2387366; 608294, 2387395; 608292, 2387413; 608300, 2387459; 608299, 2387471; 608298, 2387472; 608298, 2387473; 608289, 2387479; 608252, 2387489; 608234, 2387501; 608228, 2387506; 608223, 2387520; 608230, 2387572; 608232, 2387576; 608238, 2387590; 608252, 2387607; 608267, 2387627; 608267, 2387628; 608272, 2387642; 608275, 2387670; 608275, 2387671; 608273, 2387689; 608258, 2387739; 608257, 2387765; 608259, 2387774; 608270, 2387794; 608274, 2387812; 608274, 2387813; 608254, 2387851; 608254, 2387852; 608227, 2387885; 608190, 2387914; 608165, 2387924; 608146, 2387938; 608143, 2387944; 608141, 2387956; 608156, 2388000; 608156, 2388001; 608156, 2388002; 608152, 2388015; 608129, 2388052; 608116, 2388066; 608100, 2388105; 608092, 2388136; 608092, 2388137; 608082, 2388155; 608034, 2388210; 608029, 2388227; 608037, 2388262; 608037, 2388263; 608034, 2388274; 608017, 2388312; 608011, 2388328; 608011, 2388329; 607997, 2388340; 607987, 2388344; 607980, 2388349; 607975, 2388357; 607973, 2388367; 607974, 2388406; 607974, 2388407; 607972, 2388420; 607965, 2388446; 607964, 2388447; 607956, 2388457; 607956, 2388458; 607898, 2388494; 607897, 2388494; 607887, 2388497; 607865, 2388499; 607855, 2388502; 607821, 2388528; 607809, 2388537; 607808, 2388537; 607783, 2388550; 607782, 2388550; 607736, 2388557; 607719, 2388559; 607692, 2388571; 607666, 2388594; 607654, 2388609; 607653, 2388609; 607613, 2388646; 607567, 2388681; 607550, 2388690; 607540, 2388696; 607534, 2388706; 607532, 2388717; 607534, 2388752; 607534, 2388761; 607534, 2388762; 607514, 2388795; 607461, 2388853; 607451, 2388878; 607448, 2388911; 607450, 2388923; 607446, 2388944; 607426, 2388990; 607425, 2389020; 607427, 2389043; 607427, 2389044; 607417, 2389071; 607411, 2389083; 607404, 2389108; 607378, 2389157; 607359, 2389185; 607358, 2389186; 607353, 2389189; 607357, 2389208; 607364, 2389224; 607376, 2389239; 607389, 2389258; 607389, 2389259; 607394, 2389273; 607399, 2389307; 607400, 2389308; return to starting point.

(ii) NOTE: Map 215 follows:

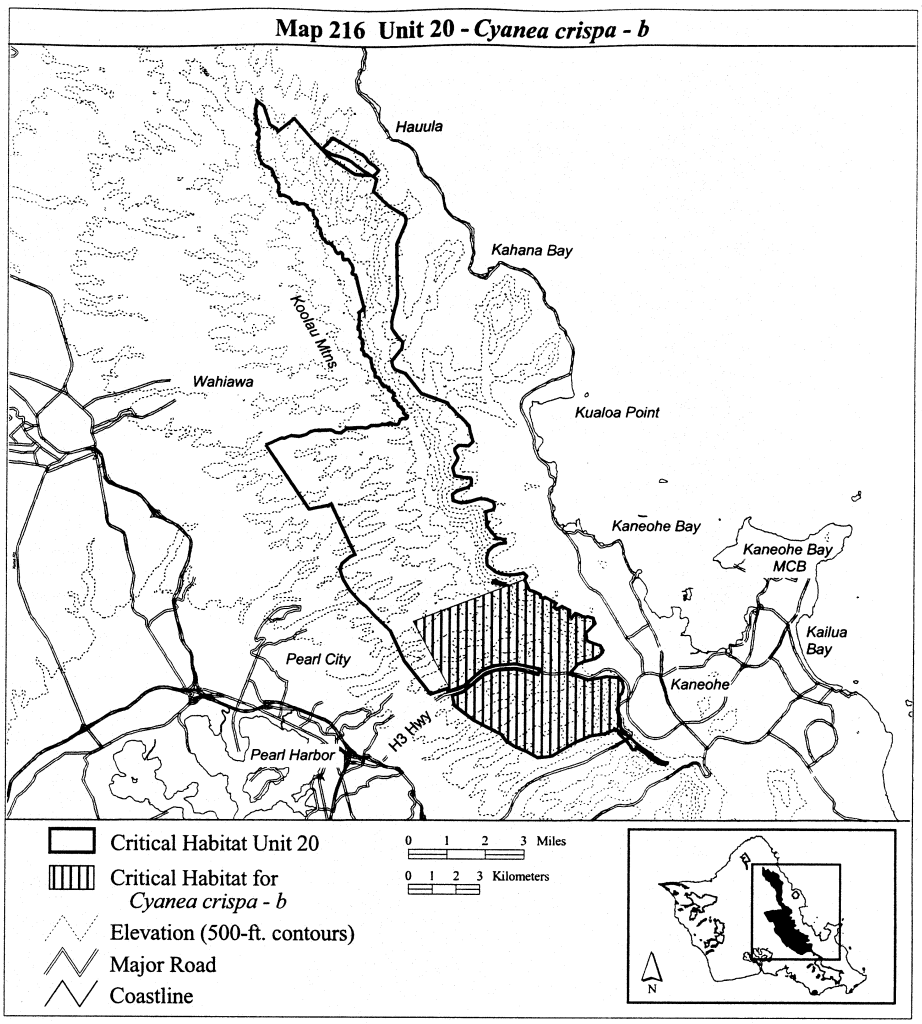


(216) Oahu 20—*Cyanea crispa*—b (3,874 ha; 9,572 ac)

(i) Unit consists of the following 120 boundary points: Start at 618290, 2364233; 618037, 2364397; 617997, 2364397; 617770, 2364713; 617769, 2364714; 616591, 2365312; 616219, 2365594; 615789, 2365919; 615699, 2366341; 616026, 2366454; 616159, 2366492; 616880, 2367092; 616979, 2367172; 617017, 2367191; 617469, 2367394; 618307, 2367463; 618509, 2367419; 619283, 2367245; 619284, 2367245; 619285, 2367245; 619285, 2367246; 619351, 2367450; 619351, 2367451; 619351, 2367452; 619350, 2367452; 619340, 2367454; 619344, 2367466; 618301, 2367677; 617421, 2367598; 616993, 2367420; 616871, 2367371; 616186, 2366751; 615512, 2366486; 615556, 2366713; 614049, 2369433; 618671, 2371225; 618900, 2370776; 619118, 2370706; 619372, 2370572; 619374, 2370484; 619525, 2370441; 619565, 2370469; 620035, 2370220; 619958, 2370126; 619950, 2370045; 620054, 2369969; 620264, 2370098; 620591, 2369924; 620603, 2369796; 620565, 2369678; 620681, 2369614; 620750, 2369721; 620836, 2369794; 620837, 2369794; 620893, 2369780; 621068, 2369721; 621103, 2369654; 621177, 2369662;

621259, 2369628; 621340, 2369662; 621443, 2369636; 621570, 2369603; 621648, 2369368; 621266, 2368963; 621265, 2368962; 621265, 2368961; 621321, 2368668; 621322, 2368667; 621347, 2368657; 621526, 2368567; 621638, 2368535; 621883, 2368432; 621958, 2368318; 621999, 2368255; 621955, 2368124; 621842, 2368014; 621694, 2367904; 621659, 2367893; 621142, 2367756; 620978, 2367684; 620961, 2367679; 620604, 2367260; 620603, 2367260; 620603, 2367259; 620604, 2367258; 621050, 2367138; 621075, 2367114; 621379, 2367024; 621510, 2367014; 621830, 2367079; 622145, 2367158; 622360, 2367124; 622607, 2367101; 622785, 2366983; 622809, 2366966; 622866, 2366712; 622789, 2366441; 622688, 2366317; 622686, 2366200; 622657, 2366174; 622641, 2366065; 622641, 2365926; 622595, 2365765; 622595, 2365764; 622658, 2365627; 622664, 2365546; 622731, 2365278; 622707, 2365156; 622707, 2365155; 622708, 2365153; 622641, 2365005; 622145, 2364750; 621489, 2364647; 620825, 2364374; 619887, 2363809; 619327, 2363736; 619306, 2363734; 619289, 2363742; 618843, 2364003; 618621, 2364070; return to starting point.

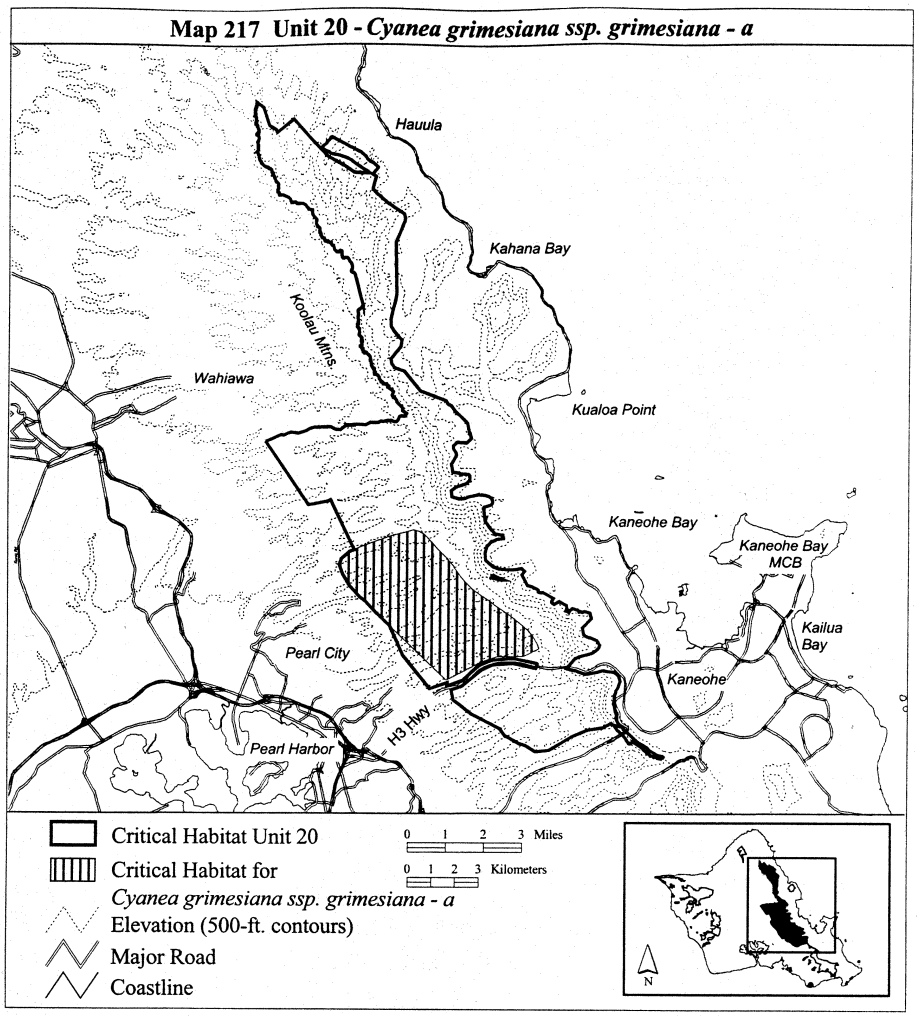
(ii) NOTE: Map 216 follows:



(217) Oahu 20—*Cyanea grimesiana* ssp. *grimesiana*—a (2,634 ha; 6,506 ac)

(i) Unit consists of the following 38 boundary points: Start at 615490, 2366752; 612398, 2369695; 612094, 2370041; 611819, 2370260; 611368, 2370754; 611085, 2371205; 610944, 2371614; 611022, 2371876; 611396, 2372179; 611946, 2372426; 612560, 2372652; 613209, 2372878; 613703, 2373012; 614077, 2373117; 614331, 2373061; 614557, 2372906; 614910, 2372539; 615136, 2372264; 615481, 2371939; 615799, 2371565; 615800, 2371529; 616088, 2371135; 616300, 2370873; 616582, 2370598; 616942, 2370344; 617358, 2370062; 617535, 2369928; 618156, 2369490; 618692, 2369067; 618996, 2368827; 618981, 2368819; 619052, 2368735; 619186, 2368559; 619327, 2368319; 619423, 2368067; 618778, 2367765; 617647, 2367736; 616951, 2367504; return to starting point.

(ii) NOTE: Map 217 follows:

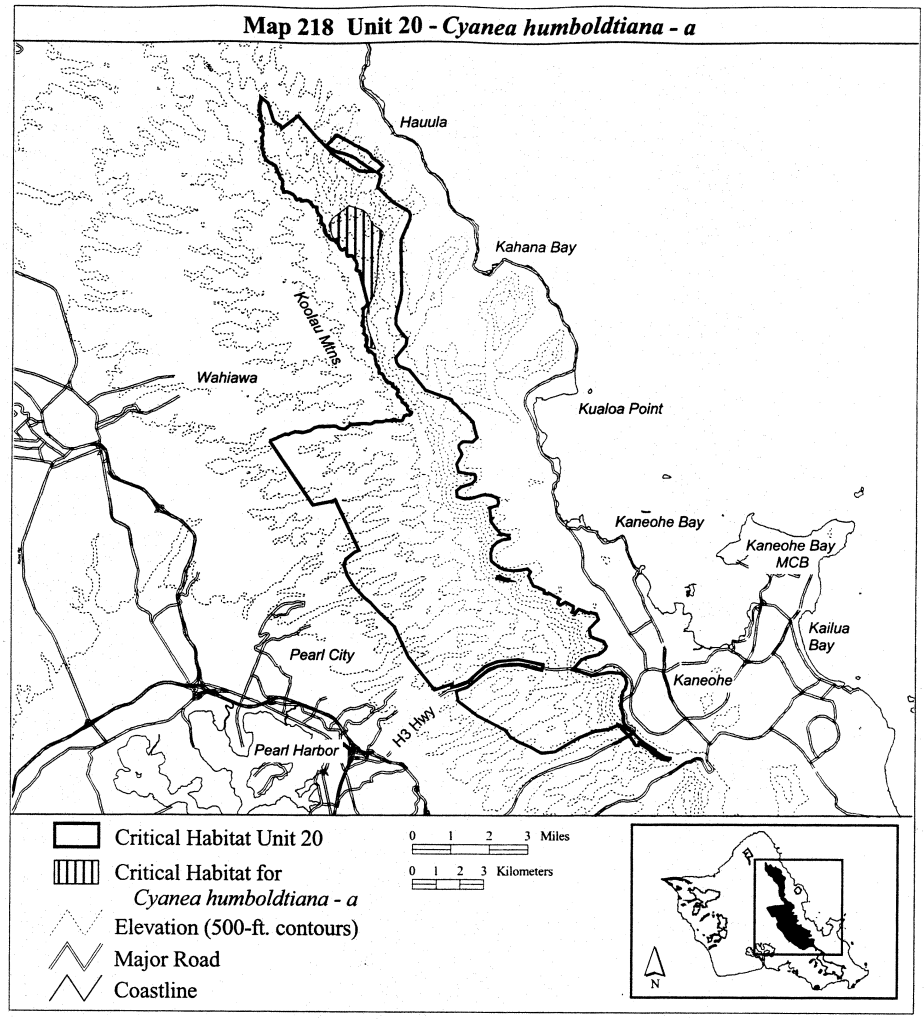


(218) Oahu 20—*Cyanea humboltiana*—a (502 ha; 1,242 ac)

(i) Unit consists of the following 228 boundary points: Start at 610424, 2385362; 610216, 2385979; 610366, 2386247; 611070, 2386825; 611542, 2386672; 611670, 2386629; 611770, 2386563; 611851, 2386477; 611913, 2386372; 611956, 2386253; 612013, 2386148; 612085, 2386096; 612147, 2386005; 612290, 2385881; 612418, 2385800; 612518, 2385719; 612523, 2385648; 612485, 2385529; 612418, 2385324; 612409, 2385100; 612332, 2384972; 612309, 2384867; 612342, 2384781; 612313, 2384571; 612299, 2384309; 612297, 2384309; 612271, 2383706; 612129, 2383015; 611899, 2382437; 611847, 2382271; 611842, 2382013; 611885, 2381742; 611928, 2381561; 611999, 2381404; 612042, 2381266; 612037, 2381266; 612227, 2380774; 611926, 2380827; 611882, 2380835; 611880, 2380839; 611856, 2380862; 611812, 2380892; 611799, 2380905; 611798, 2380918; 611800, 2380925; 611815, 2380943; 611838, 2380960; 611838, 2380961; 611848, 2380980; 611851, 2381022; 611848, 2381067; 611853, 2381081; 611879, 2381118; 611879, 2381119; 611879, 2381131; 611879, 2381132; 611868, 2381149; 611858, 2381155;

611857, 2381155; 611847, 2381160; 611837, 2381167; 611828, 2381178; 611825, 2381193; 611830, 2381214; 611838, 2381223; 611854, 2381250; 611854, 2381251; 611856, 2381258; 611855, 2381265; 611855, 2381266; 611849, 2381285; 611848, 2381285; 611848, 2381286; 611828, 2381312; 611784, 2381363; 611765, 2381383; 611734, 2381424; 611733, 2381424; 611730, 2381426; 611737, 2381446; 611745, 2381514; 611746, 2381550; 611748, 2381618; 611748, 2381619; 611739, 2381669; 611736, 2381680; 611736, 2381681; 611727, 2381699; 611727, 2381700; 611726, 2381700; 611673, 2381758; 611666, 2381774; 611666, 2381794; 611670, 2381810; 611702, 2381865; 611702, 2381866; 611712, 2381882; 611712, 2381883; 611712, 2381915; 611712, 2381916; 611710, 2381923; 611687, 2381955; 611687, 2381978; 611695, 2381990; 611702, 2382013; 611702, 2382014; 611700, 2382058; 611694, 2382120; 611695, 2382225; 611701, 2382278; 611701, 2382279; 611699, 2382320; 611695, 2382360; 611693, 2382433; 611692, 2382455; 611698, 2382473; 611744, 2382512; 611805, 2382557; 611831, 2382588; 611844, 2382604; 611844, 2382605; 611850, 2382621; 611874, 2382653; 611896, 2382683; 611896, 2382684; 611903, 2382704; 611903, 2382705; 611903, 2382706; 611902, 2382707; 611901, 2382707; 611900, 2382707; 611900, 2382706; 611899, 2382706; 611892, 2382686; 611891, 2382684; 611795, 2383056; 611597, 2383822; 611567, 2383939; 611567, 2383940; 611561, 2383949; 611537, 2384020; 611536, 2384020; 611525, 2384040; 611515, 2384051; 611495, 2384064; 611460, 2384078; 611430, 2384082; 611404, 2384097; 611396, 2384120; 611393, 2384150; 611397, 2384172; 611413, 2384204; 611422, 2384233; 611428, 2384263; 611435, 2384302; 611435, 2384321; 611429, 2384356; 611429, 2384357; 611417, 2384382; 611394, 2384464; 611387, 2384476; 611374, 2384488; 611374, 2384489; 611358, 2384501; 611334, 2384524; 611326, 2384536; 611302, 2384584; 611257, 2384667; 611256, 2384667; 611245, 2384680; 611244, 2384681; 611224, 2384695; 611223, 2384695; 611203, 2384703; 611202, 2384704; 611192, 2384704; 611191, 2384703; 611165, 2384698; 611119, 2384696; 611118, 2384696; 611082, 2384690; 611081, 2384690; 611065, 2384682; 611064, 2384681; 611058, 2384675; 611046, 2384674; 611039, 2384675; 611028, 2384688; 611014, 2384713; 610994, 2384778; 610981, 2384838; 610976, 2384927; 610973, 2384941; 610973, 2384942; 610965, 2384959; 610965, 2384960; 610957, 2384969; 610957, 2384970; 610934, 2384987; 610933, 2384987; 610909, 2384993; 610908, 2384993; 610888, 2384986; 610839, 2384956; 610809, 2384945; 610780, 2384942; 610766, 2384942; 610749, 2384953; 610709, 2384995; 610692, 2385014; 610679, 2385041; 610630, 2385180; 610616, 2385205; 610606, 2385215; 610606, 2385216; 610598, 2385220; 610558, 2385236; 610543, 2385248; 610533, 2385266; 610516, 2385329; 610509, 2385341; 610509, 2385342; 610508, 2385342; 610497, 2385351; 610496, 2385351; 610454, 2385362; 610440, 2385362; 610440, 2385363; return to starting point.

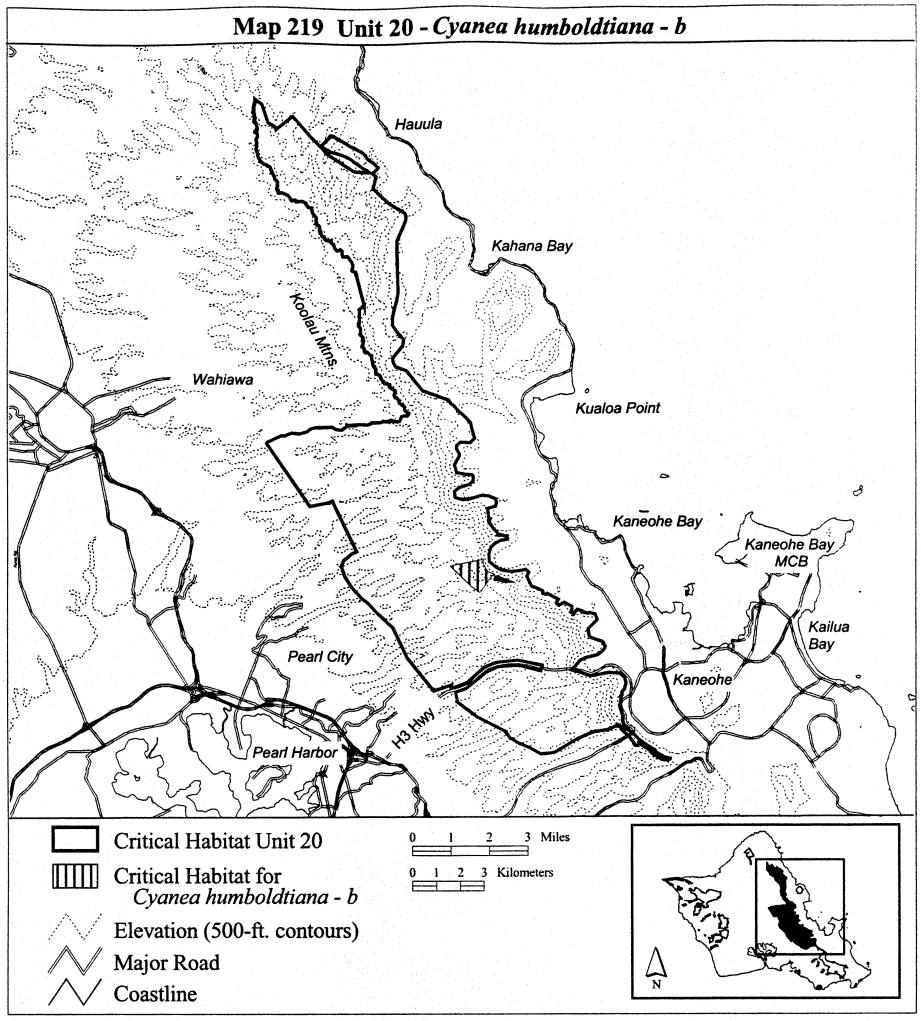
(ii) NOTE: Map 218 follows:



(219) Oahu 20—*Cyanea humboltiana*—b (127 ha; 315 ac)

(i) Unit consists of the following 8 boundary points: Start at 615466, 2371631; 616875, 2371919; 616875, 2371746; 617062, 2371401; 617350, 2371271; 617235, 2371214; 616746, 2370524; 616358, 2370797; return to starting point.

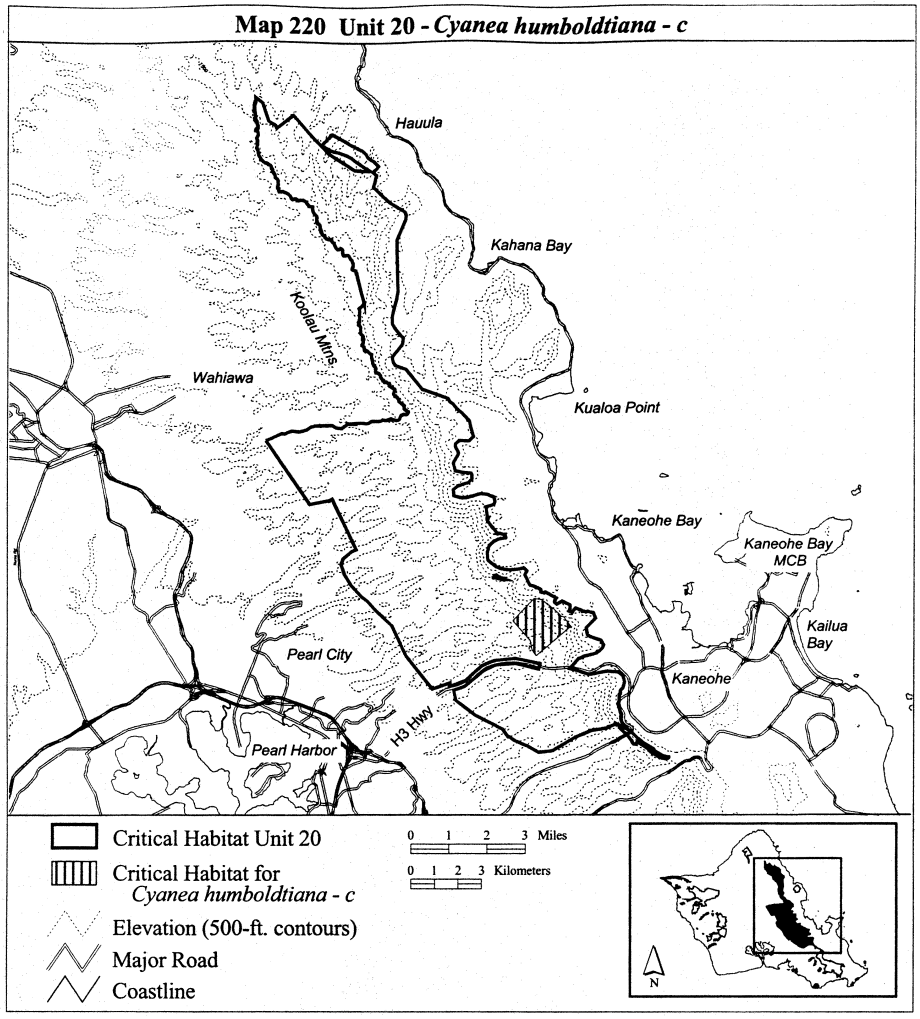
(ii) NOTE: Map 219 follows:



(220) Oahu—*Cyanea humboltiana*—c (299 ha; 740 ac)

(i) Unit consists of the following 10 boundary points: Start at 618213, 2369258; 619090, 2370193; 619421, 2370150; 619895, 2369776; 620269, 2369431; 620312, 2369445; 620629, 2369042; 619176, 2367791; 619018, 2368050; 618932, 2368438; return to starting point.

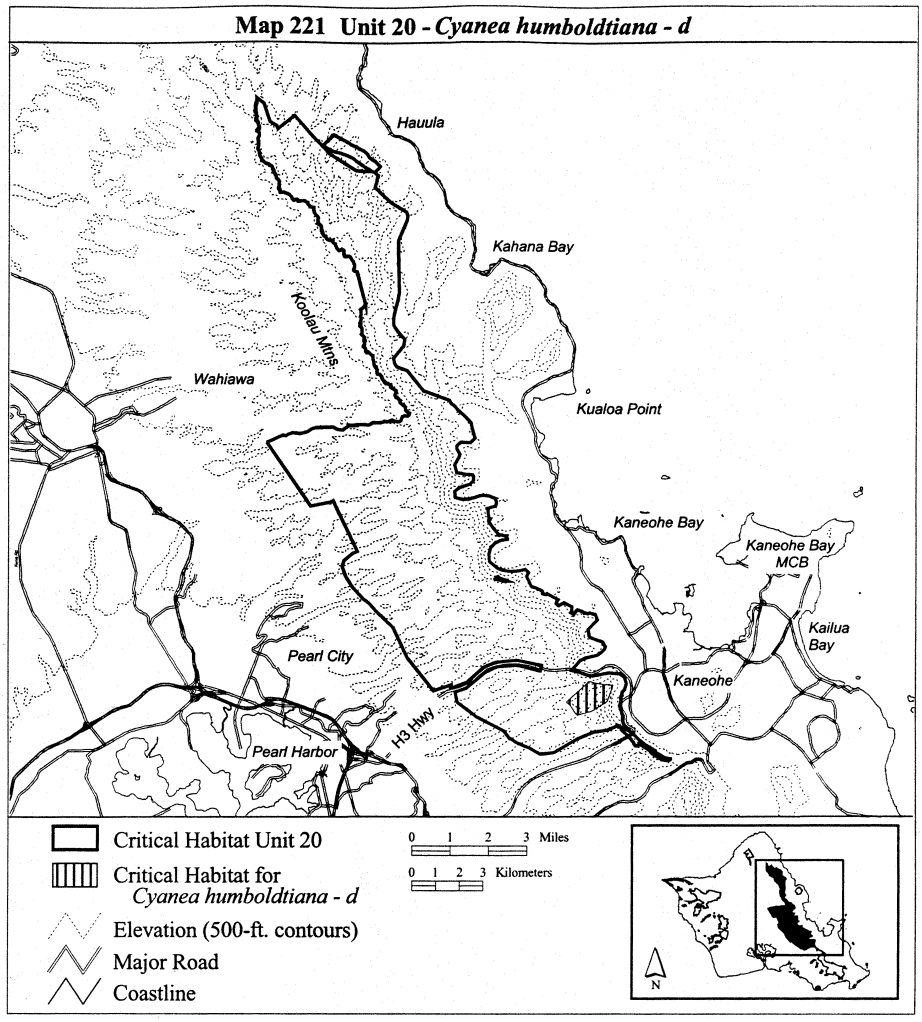
(ii) NOTE: Map 220 follows:



(221) Oahu—*Cyanea humboltiana*—d (159 ha; 393 ac)

(i) Unit consists of the following 12 boundary points: Start at 620384, 2365922; 621334, 2366799; 621549, 2366727; 621923, 2366654; 622081, 2366668; 622168, 2366668; 622311, 2366596; 622081, 2365949; 621434, 2365548; 620830, 2365375; 620701, 2365533; 620543, 2365792; return to starting point.

(ii) NOTE: Map 221 follows:



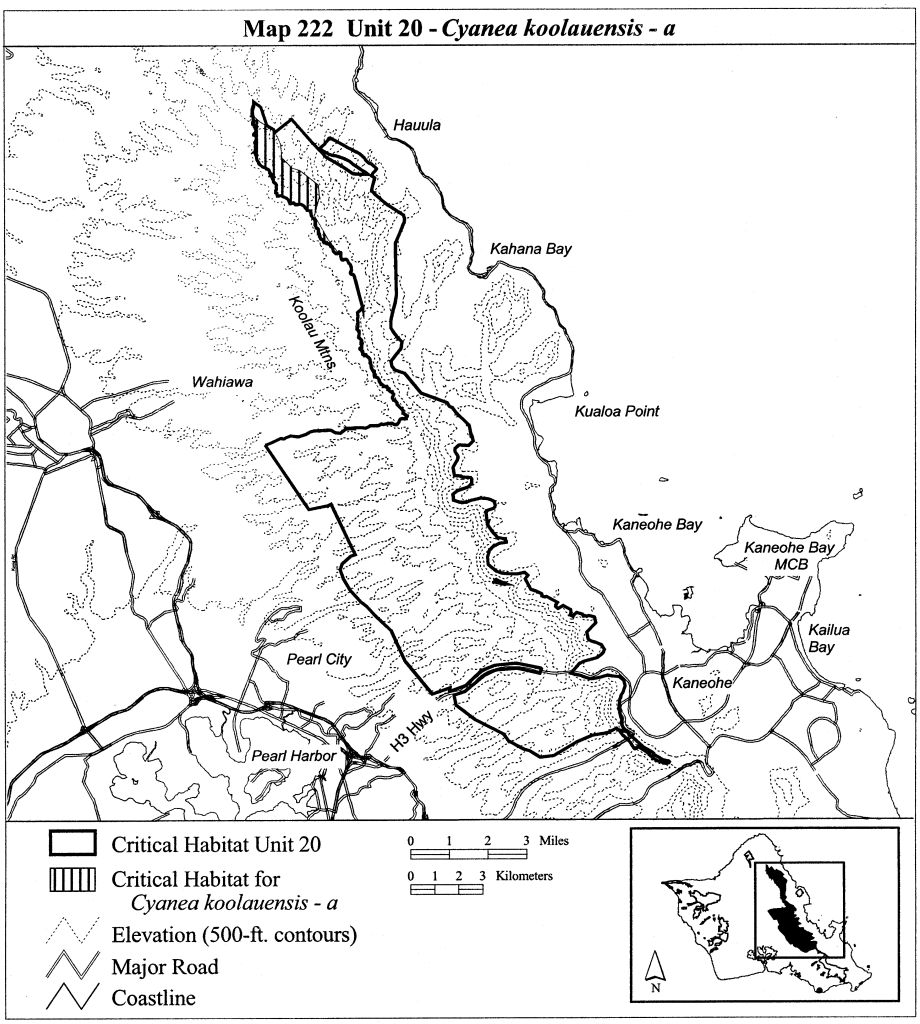
(222) Oahu—*Cyanea koolauensis*—a (468 ha; 1,158 ac)

(i) Unit consists of the following 417 boundary points: Start at 607259, 2390761; 607620, 2390452; 608141, 2390155; 608439, 2389559; 608513, 2388964; 608959, 2388518; 609183, 2388443; 609227, 2388443; 610028, 2387823; 610076, 2387327; 610083, 2387317; 609877, 2386574; 609867, 2386564; 610409, 2385617; 610403, 2385612; 610841, 2385019; 610826, 2384951; 610809, 2384945; 610780, 2384942; 610766, 2384942; 610749, 2384953; 610709, 2384995; 610692, 2385014; 610679, 2385041; 610630, 2385180; 610616, 2385205; 610606, 2385215; 610606, 2385216; 610598, 2385220; 610558, 2385236; 610543, 2385248; 610533, 2385266; 610516, 2385329; 610509, 2385341; 610509, 2385342; 610508, 2385342; 610497, 2385351; 610496, 2385351; 610454, 2385362; 610440, 2385362; 610394, 2385362; 610370, 2385370; 610333, 2385392; 610292, 2385406; 610280, 2385413; 610261, 2385429; 610248, 2385449; 610237, 2385473; 610222, 2385512; 610222, 2385513; 610214, 2385522; 610206, 2385531; 610206, 2385532; 610187, 2385540; 610166, 2385544; 610134, 2385558; 610129, 2385561; 610122, 2385580;

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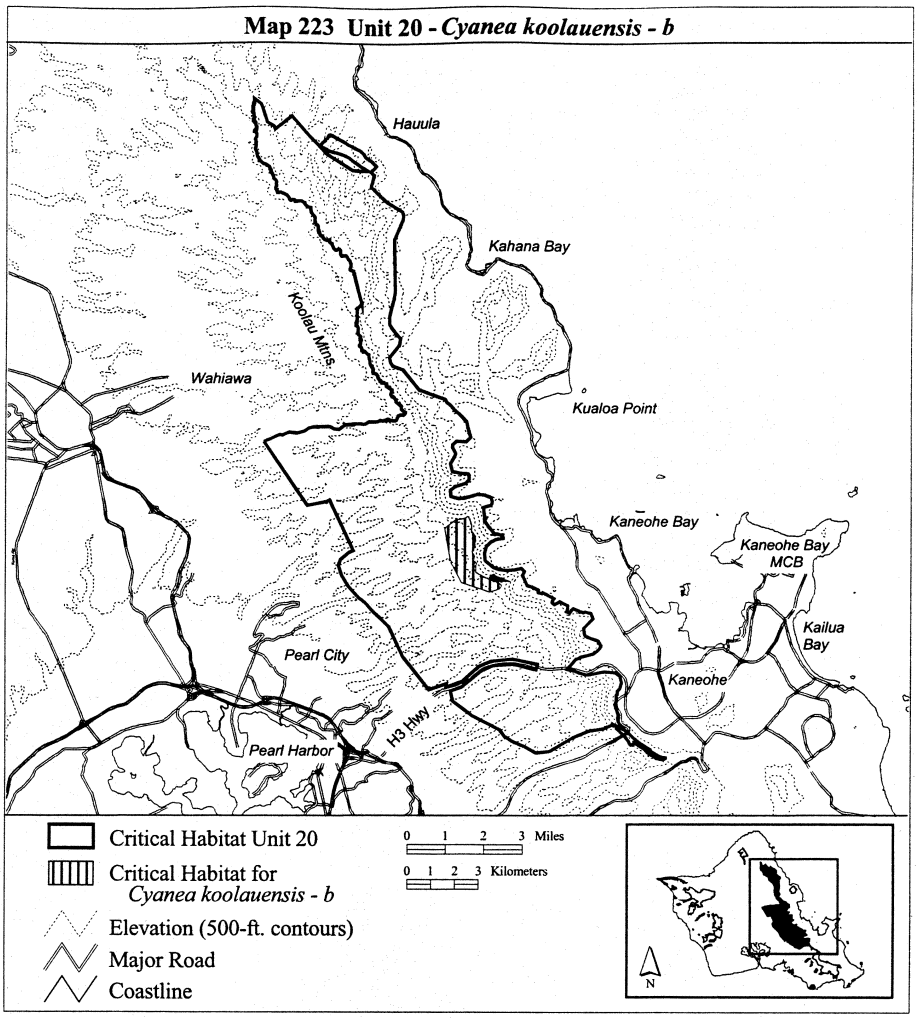
(ii) NOTE: Map 222 follows:



(223) Oahu 20—*Cyanea koolauensis*—b (323 ha; 799 ac)

(i) Unit consists of the following 27 boundary points: Start at 615702, 2371729; 615731, 2371775; 615655, 2371857; 615426, 2373195; 615942, 2373592; 616024, 2373566; 616250, 2373608; 616405, 2373693; 616476, 2373594; 616561, 2373354; 616561, 2373072; 616716, 2372874; 616730, 2372719; 616674, 2372352; 616575, 2372196; 616709, 2371996; 616624, 2371850; 616765, 2371726; 616744, 2371589; 616744, 2371321; 617154, 2371109; 617493, 2370954; 617687, 2370912; 617848, 2370771; 617757, 2370634; 617338, 2370493; 616146, 2370893; return to starting point.

(ii) NOTE: Map 223 follows:



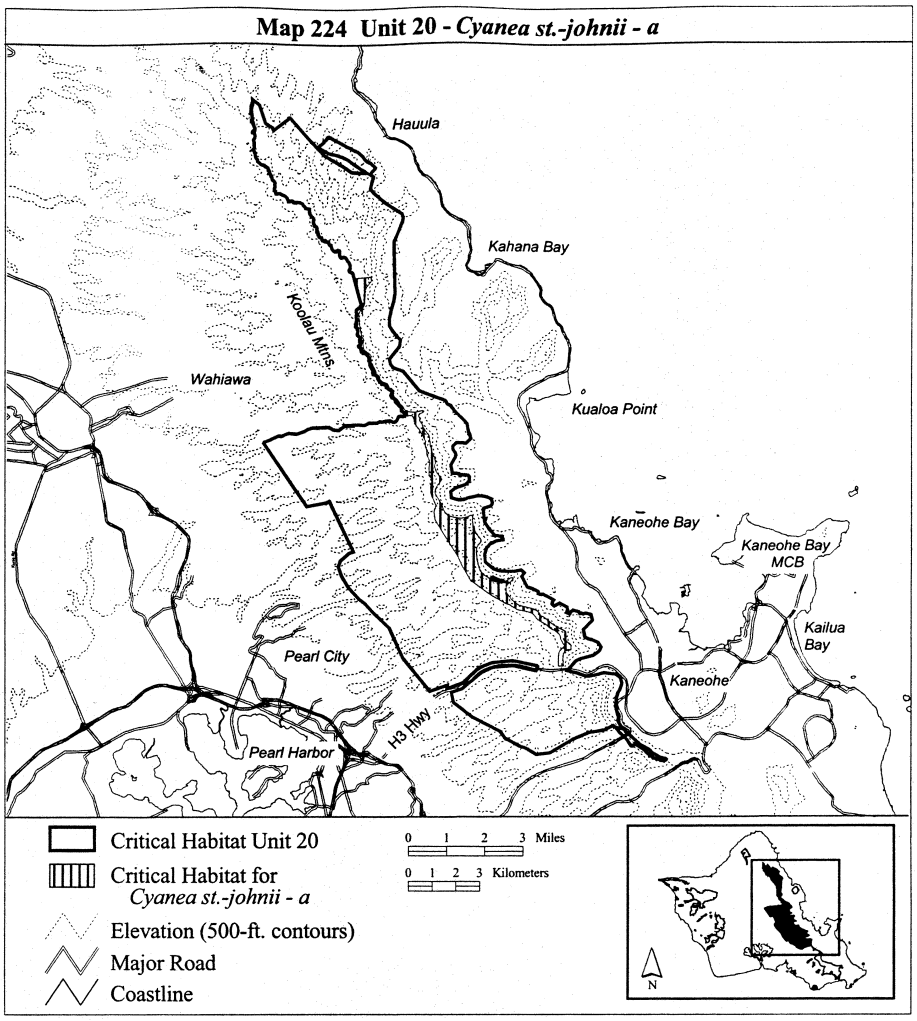
(224) Oahu 20—*Cyanea st.-johnii*—a (697 ha; 1,723 ac)

(i) Unit consists of the following 515 boundary points: Start at 613751, 2378091; 613747, 2378094; 613746, 2378095; 613718, 2378106; 613711, 2378117; 613691, 2378143; 613660, 2378168; 613602, 2378212; 613593, 2378224; 613586, 2378238; 613583, 2378253; 613583, 2378292; 613583, 2378328; 613583, 2378329; 613568, 2378356; 613556, 2378372; 613524, 2378400; 613517, 2378408; 613476, 2378444; 613462, 2378463; 613462, 2378464; 613447, 2378478; 613424, 2378499; 613386, 2378532; 613364, 2378562; 613346, 2378613; 613330, 2378641; 613265, 2378728; 613248, 2378749; 613247, 2378750; 613232, 2378759; 613231, 2378759; 613213, 2378764; 613199, 2378769; 613190, 2378778; 613172, 2378818; 613152, 2378848; 613147, 2378859; 613147, 2378860; 613146, 2378860; 613145, 2378860; 613145, 2378861; 613146, 2378862; 613144, 2378873; 613159, 2378951; 613185, 2378998; 613187, 2379004; 613187, 2379005; 613185, 2379019; 613185, 2379020; 613171, 2379040; 613142, 2379072; 613115, 2379100; 613099, 2379113; 613098, 2379113; 613063, 2379127; 612997, 2379166; 612978, 2379188;

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614509, 2377531; 614596, 2377398; 614686, 2377239; 614762, 2377179; 614786, 2377016; 614777, 2376918; 614789, 2376917; 614795, 2376797; 614801, 2376710; 614855, 2376608; 614861, 2376523; 614891, 2376418; 614957, 2376325; 614993, 2376229; 615011, 2376126; 615026, 2375991; 615014, 2375943; 614984, 2375886; 614993, 2375826; 615026, 2375754; 615053, 2375645; 615129, 2375510; 615225, 2375396; 615306, 2375294; 615201, 2375170; 615122, 2375071; 615047, 2374942; 615023, 2374870; 615011, 2374806; 615017, 2374737; 615053, 2374644; 615104, 2374548; 615180, 2374437; 615288, 2374256; 615303, 2374175; 615339, 2374049; 615432, 2373892; 615537, 2373796; 615700, 2373739; 615931, 2373697; 616082, 2373673; 616220, 2373682; 616319, 2373706; 616400, 2373736; 616473, 2373778; 616563, 2373799; 616581, 2373775; 616593, 2373700; 616593, 2373646; 616578, 2373562; 616593, 2373486; 616617, 2373366; 616656, 2373300; 616680, 2373234; 616680, 2373162; 616713, 2373108; 616722, 2373041; 616764, 2372999; 616767, 2372999;

616839, 2372933; 616891, 2372864; 616939, 2372801; 616963, 2372717; 616936, 2372644; 616833, 2372536; 616773, 2372410; 616749, 2372233; 616758, 2372082; 616773, 2371935; 616812, 2371803; 616830, 2371718; 616860, 2371640; 616903, 2371532; 616924, 2371436; 616996, 2371358; 617113, 2371264; 617187, 2371212; 617366, 2371114; 617465, 2371066; 617570, 2371042; 617735, 2371006; 617832, 2371003; 617958, 2371006; 618045, 2371024; 618090, 2371054; 618126, 2371087; 618217, 2371138; 618301, 2371171; 618304, 2371135; 618283, 2371072; 618174, 2370964; 618093, 2370888; 618024, 2370777; 618015, 2370651; 618018, 2370564; 618063, 2370489; 618123, 2370404; 618183, 2370332; 618229, 2370266; 618376, 2370122; 618550, 2370010; 618809, 2369950; 619068, 2369884; 619152, 2369863; 619153, 2369862; 619155, 2369861; 619190, 2369844; 619233, 2369823; 619232, 2369822; 619305, 2369785; 619362, 2369728; 619407, 2369674; 619504, 2369544; 619537, 2369544; 619678, 2369457; 619849, 2369322; 619964, 2369229; 620222, 2369042; 620409, 2368964; 620514, 2368904; 620528, 2368813; 620524, 2368812; 620529, 2368782; 620529, 2368505; 620759, 2368329; 620759, 2368126; 620651, 2368146; 620563, 2368085; 620495, 2368072; 620427, 2367950; 620421, 2367768; 620421, 2367754; 620434, 2367450; 620218, 2367436; 620218, 2367734; 620231, 2367815; 620238, 2367984; 620285, 2368085; 620488, 2368295; 620427, 2368356; 620387, 2368457; 620312, 2368579; 620306, 2368654; 620299, 2368701; 620256, 2368766; 620162, 2368850; 620063, 2368937; 620003, 2368961; 619858, 2369045; 619708, 2369181; 619504, 2369310; 619335, 2369406; 619293, 2369445; 619278, 2369490; 619203, 2369580; 619154, 2369626; 619084, 2369686; 619074, 2369695; 619063, 2369697; 618991, 2369709; 618992, 2369710; 618770, 2369752; 618505, 2369812; 618361, 2369893; 618211, 2369986; 618200, 2370000; 618057, 2370054; 617376, 2370435; 616571, 2370993; 616536, 2370993; 616468, 2371125; 616182, 2371624; 615965, 2372069; 615583, 2372682; 615302, 2373118; 615020, 2373603; 614961, 2373916; 615044, 2374217; 615011, 2374283; 614948, 2374431; 614870, 2374599; 614819, 2374755; 614819, 2374861; 614816, 2374861; 614810, 2374936; 614828, 2375020; 614861, 2375104; 614852, 2375185; 614861, 2375303; 614825, 2375375; 614765, 2375465; 614762, 2375564; 614762, 2375687; 614756, 2375832; 614777, 2375979; 614762, 2376138; 614723, 2376259; 614641, 2376349; 614641, 2376391; 614641, 2376550; 614617, 2376653; 614590, 2376791; 614602, 2376929; 614602, 2376932; 614530, 2377068; 614482, 2377179; 614434, 2377242; 614365, 2377350; 614323, 2377431; 614211, 2377594; 614115, 2377753; 614115, 2377816; 614088, 2377922; 614031, 2378000; 613935, 2378000; 613833, 2377985; 613763, 2378008; 613771, 2378068; 613764, 2378090; 613757, 2378093; 613753, 2378093; return to starting point.

(ii) NOTE: Map 224 follows:

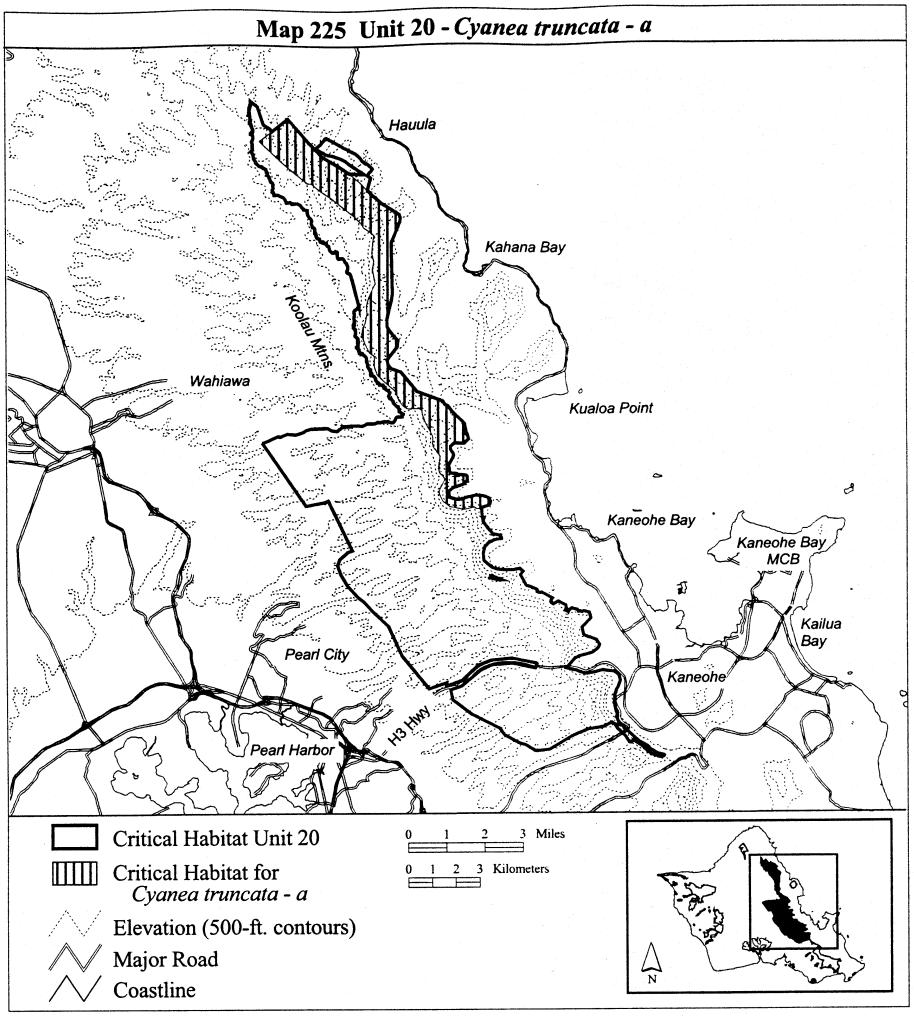


(225) Oahu 20—*Cyanea truncata*—a (2,031 ha; 5,020 ac)

(i) Unit consists of the following 164 boundary points: Start at 613602, 2386551; 613659, 2386389; 613631, 2386210; 613273, 2385353; 613273, 2385352; 613274, 2385331; 613268, 2385140; 613280, 2384981; 613312, 2383180; 613250, 2382818; 613195, 2382609; 613088, 2382144; 613082, 2381829; 613080, 2381820; 613080, 2381819; 613080, 2381818; 613087, 2381810; 613208, 2381606; 613344, 2381440; 613533, 2381229; 613545, 2381214; 613505, 2380936; 613087, 2380405; 613087, 2380404; 613089, 2380400; 613115, 2380198; 613237, 2380056; 613239, 2380052; 613240, 2380051; 613646, 2379898; 614360, 2379039; 614361, 2379039; 615437, 2378644; 615510, 2378505; 615637, 2378424; 615841, 2378182; 616058, 2377995; 616346, 2377691; 616360, 2377561; 616377, 2377455; 616437, 2377260; 616441, 2377261; 616504, 2377029; 616326, 2376847; 615911, 2376866; 615753, 2376724; 615753, 2376601; 615853, 2376412; 615876, 2376331; 615830, 2376217; 615657, 2375913; 615739, 2375583; 616002, 2375545; 616017, 2375521; 616413, 2375487; 616454, 2375432; 616454, 2375239; 616289, 2375088;

615849, 2374937; 615671, 2374785; 615684, 2374538; 615946, 2374455; 616023, 2374455; 616049, 2374426; 616159, 2374455; 616248, 2374455; 616439, 2374528; 616726, 2374601; 616815, 2374624; 617102, 2374594; 617234, 2374550; 617314, 2374524; 617376, 2374469; 617417, 2374318; 617399, 2374230; 617371, 2374191; 617349, 2374168; 616881, 2374029; 616743, 2374112; 616317, 2374015; 615712, 2374125; 615423, 2374373; 615244, 2374758; 615423, 2375102; 615506, 2375280; 615437, 2375432; 615285, 2375569; 615230, 2375789; 615285, 2376119; 615313, 2376298; 615024, 2376669; 614997, 2376876; 615008, 2376903; 615004, 2376902; 615004, 2377060; 615012, 2377060; 614982, 2377187; 614914, 2377340; 614783, 2377557; 614642, 2377825; 614574, 2378084; 614549, 2378258; 614426, 2378318; 614251, 2378322; 614034, 2378297; 613920, 2378322; 613822, 2378390; 613724, 2378496; 613603, 2378652; 613593, 2378644; 613400, 2379102; 613148, 2379328; 612882, 2379547; 612663, 2379793; 612550, 2380098; 612544, 2380510; 612504, 2380603; 612338, 2380690; 612112, 2381181; 612005, 2381507; 612035, 2381508; 612032, 2381533; 612065, 2381752; 612152, 2381899; 612238, 2382324; 612225, 2382682; 612311, 2383041; 612457, 2383320; 612603, 2383626; 612477, 2384230; 612510, 2384449; 612524, 2384602; 612477, 2384755; 612492, 2384755; 612444, 2384881; 612484, 2385393; 612550, 2385652; 612371, 2385824; 612105, 2386004; 611959, 2386210; 611640, 2386522; 610743, 2387233; 610272, 2387538; 609900, 2387837; 609904, 2387847; 609747, 2387864; 608963, 2388475; 608611, 2388774; 607704, 2389609; 608907, 2390579; 609714, 2389657; 610232, 2389126; 610338, 2389006; 611095, 2388548; 611693, 2388143; 611952, 2387903; 612284, 2387567; 612284, 2387566; 612285, 2387565; 612291, 2387560; 612457, 2387392; 612749, 2387140; 612955, 2386960; 613489, 2386638; return to starting point.

(ii) NOTE: Map 225 follows:

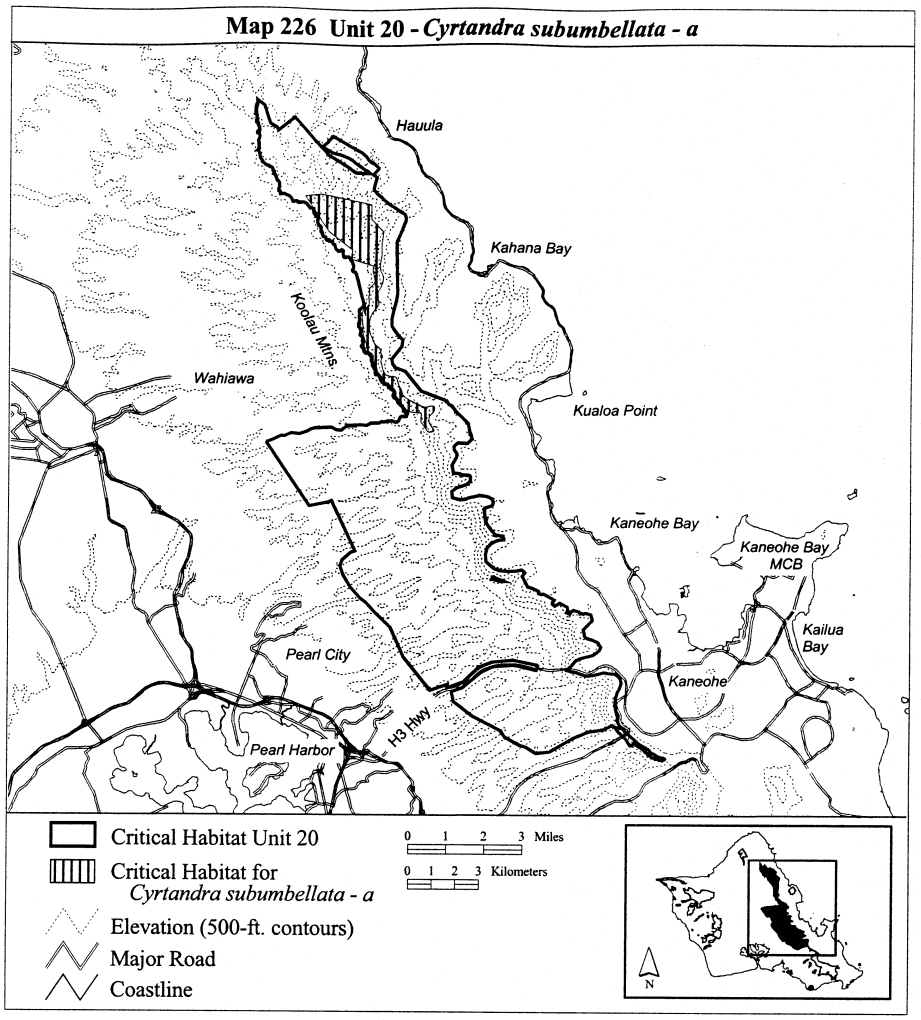


(226) Oahu 20—*Cyrtandra subumbellata*—a (830 ha; 2,050 ac)

(i) Unit consists of the following 166 boundary points: Start at 610061, 2387358; 610074, 2387344; 612191, 2386940; 612201, 2386326; 612707, 2385810; 612654, 2385392; 612653, 2385389; 612646, 2385275; 612642, 2385124; 612646, 2384946; 612642, 2384870; 612638, 2384783; 612612, 2384688; 612600, 2384564; 612585, 2384291; 612604, 2384128; 612634, 2384037; 612702, 2383897; 612706, 2383784; 612691, 2383663; 612627, 2383458; 612490, 2383243; 612479, 2383242; 612483, 2383042; 612498, 2382947; 612517, 2382800; 612502, 2382671; 612426, 2382550; 612335, 2382448; 612267, 2382361; 612188, 2382232; 612150, 2382099; 612127, 2381956; 612123, 2381634; 612165, 2381445; 612226, 2381301; 612328, 2381089; 612438, 2380960; 612547, 2380854; 612623, 2380794; 612627, 2380684; 612634, 2380597; 612661, 2380585; 612691, 2380521; 612691, 2380445; 612638, 2380366; 612623, 2380309; 612653, 2380169; 612684, 2380044; 612718, 2379942; 612767, 2379851; 612805, 2379794; 612858, 2379726; 612907, 2379696; 613005, 2379685; 613092, 2379669; 613187, 2379662; 613263, 2379632;

613319, 2379545; 613346, 2379442; 613384, 2379336; 613448, 2379223; 613501, 2379109; 613505, 2379044; 613577, 2378882; 613713, 2378742; 613993, 2378602; 614266, 2378454; 614425, 2378386; 614534, 2378371; 614674, 2378405; 614765, 2378435; 614815, 2378435; 614868, 2378428; 614902, 2378401; 614902, 2378356; 614902, 2378269; 614879, 2378182; 614799, 2378095; 614720, 2378008; 614671, 2377917; 614674, 2377845; 614682, 2377754; 614720, 2377667; 614780, 2377569; 614856, 2377463; 614898, 2377395; 614875, 2377364; 614849, 2377349; 614777, 2377311; 614678, 2377304; 614640, 2377342; 614572, 2377417; 614478, 2377554; 614413, 2377641; 614338, 2377766; 614341, 2377883; 614349, 2378019; 614349, 2378114; 614311, 2378136; 614186, 2378148; 614046, 2378159; 613861, 2378178; 613755, 2378216; 613641, 2378371; 613554, 2378492; 613509, 2378507; 613441, 2378636; 613255, 2378854; 613244, 2378848; 613248, 2378863; 613248, 2378864; 613278, 2378965; 613248, 2379064; 613149, 2379177; 613047, 2379242; 613001, 2379325; 612865, 2379393; 612759, 2379465; 612695, 2379594; 612596, 2379753; 612562, 2379783; 612517, 2379828; 612468, 2379881; 612468, 2379968; 612362, 2380116; 612294, 2380309; 612309, 2380434; 612309, 2380555; 612256, 2380608; 612123, 2380710; 612051, 2380790; 612044, 2380790; 611998, 2380900; 612006, 2381002; 611968, 2381142; 611874, 2381346; 611851, 2381566; 611858, 2381774; 611832, 2381910; 611802, 2382096; 611805, 2382277; 611813, 2382330; 611855, 2382440; 611998, 2382573; 612112, 2382705; 612101, 2382891; 612089, 2383008; 612112, 2383140; 612130, 2383239; 612127, 2383239; 612116, 2383299; 612138, 2383405; 612244, 2383492; 612335, 2383651; 612335, 2383765; 612305, 2383954; 612252, 2384136; 612286, 2384272; 612313, 2384344; 611321, 2384616; 611381, 2384995; 610379, 2385786; 610036, 2386268; 610037, 2386293; 609373, 2387267; return to starting point.

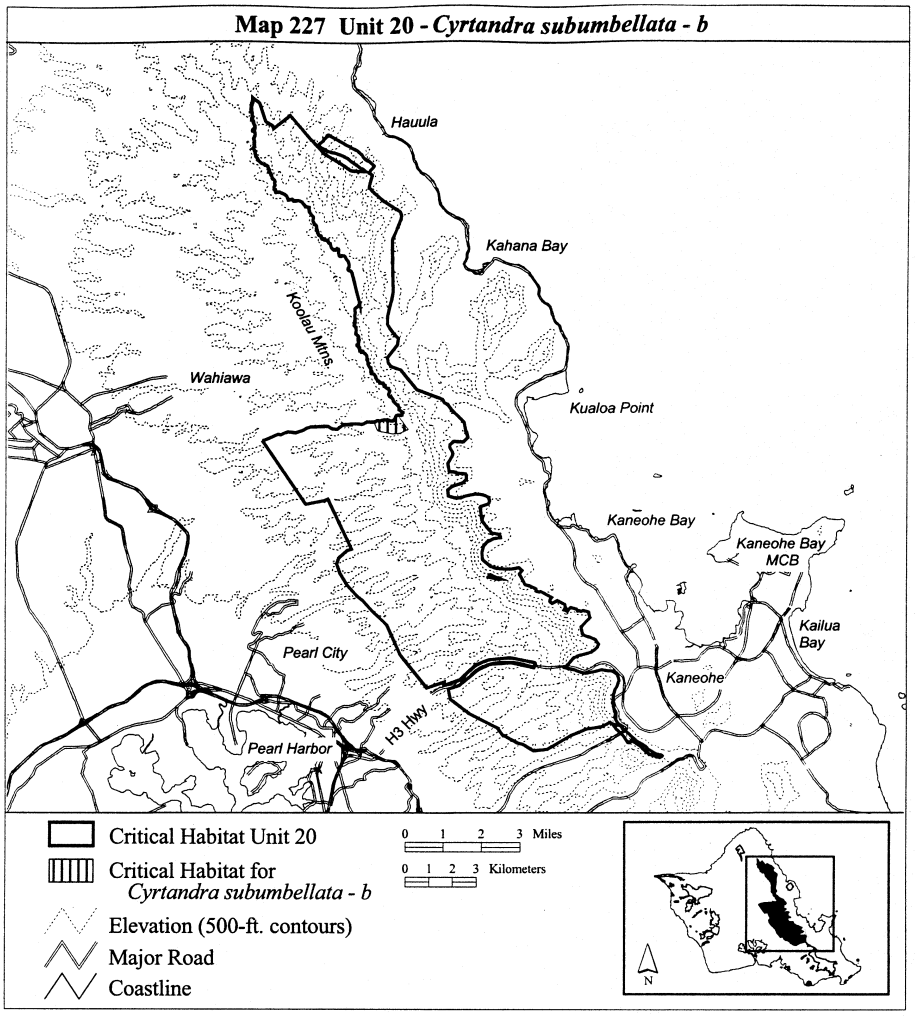
(ii) NOTE: Map 226 follows:



(227) Oahu 20—*Cyrtandra subumbellata*—b (67 ha; 167 ac)

(i) Unit consists of the following 40 boundary points: Start at 612671, 2377303; 612526, 2377691; 612575, 2377698; 612576, 2377698; 612596, 2377708; 612604, 2377703; 612630, 2377702; 612668, 2377720; 612688, 2377749; 612686, 2377751; 612705, 2377757; 612764, 2377738; 612765, 2377738; 612794, 2377742; 612814, 2377728; 612853, 2377742; 612870, 2377747; 613040, 2377760; 613059, 2377772; 613059, 2377774; 613085, 2377777; 613154, 2377768; 613224, 2377738; 613264, 2377728; 613265, 2377728; 613335, 2377738; 613336, 2377738; 613359, 2377752; 613368, 2377747; 613413, 2377754; 613415, 2377755; 613449, 2377784; 613454, 2377825; 613460, 2377881; 613497, 2377929; 613544, 2377969; 613986, 2377373; 613635, 2377208; 613308, 2377183; 612870, 2377274; return to starting point.

(ii) NOTE: Map 227 follows:



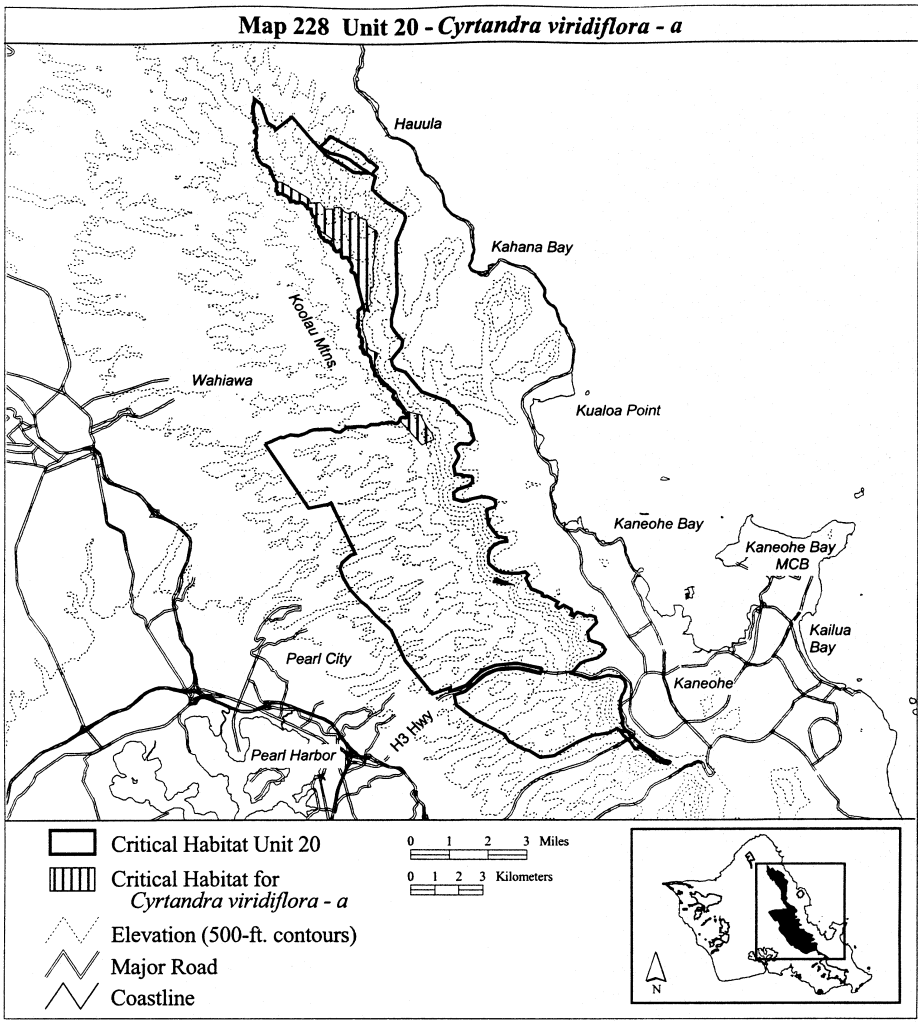
(228) Oahu 20—*Cyrtandra viridiflora*—a (782 ha; 1,932 ac)

(i) Unit consists of the following 517 boundary points: Start at 613555, 2377987; 613674, 2377978; 613675, 2377978; 613694, 2377988; 613721, 2377976; 613733, 2377976; 613762, 2378001; 613771, 2378068; 613764, 2378090; 613757, 2378093; 613753, 2378093; 613751, 2378091; 613747, 2378094; 613746, 2378095; 613718, 2378106; 613711, 2378117; 613711, 2378118; 613691, 2378143; 613660, 2378168; 613602, 2378212; 613593, 2378224; 613586, 2378238; 613583, 2378253; 613583, 2378292; 613583, 2378328; 613583, 2378329; 613568, 2378356; 613568, 2378357; 613556, 2378372; 613524, 2378400; 613517, 2378408; 613476, 2378444; 613462, 2378463; 613462, 2378464; 613447, 2378478; 613424, 2378499; 613386, 2378532; 613364, 2378562; 613346, 2378613; 613330, 2378641; 613265, 2378728; 613248, 2378749; 613247, 2378750; 613232, 2378759; 613231, 2378759; 613213, 2378764; 613199, 2378769; 613190, 2378778; 613172, 2378818; 613172, 2378819; 613152, 2378848; 613147, 2378859; 613147, 2378860; 613146, 2378860; 613145, 2378860; 613145,

2378861; 613146, 2378862; 613145, 2378862; 613144, 2378873; 613159, 2378951; 613185, 2378998; 613187, 2379004; 613187, 2379005; 613185, 2379019; 613185, 2379020; 613171, 2379040; 613142, 2379072; 613115, 2379100; 613099, 2379113; 613098, 2379113; 613063, 2379127; 612997, 2379166; 612978, 2379188; 612969, 2379215; 612963, 2379226; 612959, 2379247; 612959, 2379248; 612945, 2379276; 612945, 2379277; 612929, 2379297; 612928, 2379298; 612905, 2379314; 612876, 2379327; 612840, 2379337; 612770, 2379350; 612764, 2379355; 612758, 2379364; 612748, 2379389; 612748, 2379390; 612725, 2379410; 612700, 2379424; 612683, 2379441; 612663, 2379470; 612619, 2379529; 612600, 2379563; 612586, 2379618; 612573, 2379650; 612555, 2379679; 612517, 2379716; 612495, 2379729; 612412, 2379753; 612397, 2379761; 612387, 2379798; 612388, 2379851; 612386, 2379928; 612379, 2379961; 612379, 2379962; 612375, 2379970; 612367, 2379981; 612366, 2379981; 612366, 2379982; 612353, 2379991; 612328, 2380018; 612262, 2380145; 612255, 2380163; 612249, 2380199; 612248, 2380233; 612234, 2380304; 612226, 2380334; 612225, 2380334; 612224, 2380337; 612211, 2380367; 612213, 2380397; 612218, 2380419; 612218, 2380420; 612215, 2380452; 612212, 2380464; 612202, 2380506; 612202, 2380507; 612197, 2380516; 612177, 2380539; 612112, 2380593; 612086, 2380625; 612073, 2380644; 612046, 2380669; 612046, 2380670; 612016, 2380686; 611992, 2380690; 611965, 2380687; 611955, 2380689; 611941, 2380693; 611927, 2380702; 611919, 2380710; 611905, 2380743; 611889, 2380825; 611889, 2380826; 611880, 2380839; 611856, 2380862; 611812, 2380892; 611799, 2380905; 611798, 2380918; 611800, 2380925; 611815, 2380943; 611838, 2380960; 611838, 2380961; 611848, 2380980; 611851, 2381022; 611848, 2381067; 611853, 2381081; 611879, 2381118; 611879, 2381119; 611879, 2381131; 611879, 2381132; 611868, 2381149; 611858, 2381155; 611857, 2381155; 611847, 2381160; 611837, 2381167; 611828, 2381178; 611825, 2381193; 611830, 2381214; 611838, 2381223; 611854, 2381250; 611854, 2381251; 611856, 2381258; 611855, 2381265; 611855, 2381266; 611849, 2381285; 611848, 2381286; 611828, 2381312; 611784, 2381363; 611765, 2381383; 611734, 2381424; 611733, 2381424; 611730, 2381426; 611737, 2381446; 611745, 2381514; 611746, 2381550; 611748, 2381618; 611748, 2381619; 611739, 2381669; 611736, 2381680; 611736, 2381681; 611727, 2381699; 611727, 2381700; 611726, 2381700; 611673, 2381758; 611666, 2381774; 611666, 2381794; 611670, 2381810; 611702, 2381865; 611712, 2381882; 611712, 2381883; 611712, 2381915; 611712, 2381916; 611710, 2381923; 611687, 2381955; 611687, 2381978; 611695, 2381990; 611702, 2382013; 611702, 2382014; 611700, 2382058; 611694, 2382120; 611695, 2382225; 611701, 2382278; 611701, 2382279; 611699, 2382320; 611695, 2382360; 611693, 2382433; 611692, 2382455; 611698, 2382473; 611744, 2382512; 611805, 2382557; 611831, 2382588; 611844, 2382604; 611844, 2382605; 611850, 2382621; 611874, 2382653; 611896, 2382683; 611896, 2382684; 611903, 2382704; 611903, 2382705; 611903, 2382706; 611902, 2382707; 611901, 2382707; 611900, 2382707; 611900, 2382706; 611899, 2382706; 611892, 2382686; 611891, 2382684; 611795, 2383056; 611597, 2383822; 611567, 2383939; 611567, 2383940; 611561, 2383949; 611537, 2384020; 611536, 2384020; 611525, 2384040; 611515, 2384051; 611495, 2384064; 611460, 2384078; 611430, 2384082; 611404, 2384097; 611396, 2384120; 611393, 2384150; 611397, 2384172; 611413, 2384204; 611422, 2384233; 611428, 2384263; 611435, 2384302; 611435, 2384321; 611429, 2384356; 611429, 2384357; 611417, 2384382; 611394, 2384464; 611387, 2384476; 611374, 2384488; 611374, 2384489; 611358, 2384501; 611334, 2384524; 611326, 2384536; 611302, 2384584; 611257, 2384667; 611256, 2384667; 611245, 2384680; 611244, 2384681; 611224, 2384695; 611223, 2384695; 611203, 2384703; 611202, 2384704; 611192, 2384704; 611191, 2384703; 611165, 2384698; 611119, 2384696; 611082, 2384690; 611081, 2384690; 611065, 2384682; 611064, 2384681; 611058, 2384675; 611046, 2384674; 611039, 2384675; 611028, 2384688; 611014, 2384713; 610994, 2384778; 610981, 2384838; 610976, 2384927; 610973, 2384941; 610973, 2384942; 610965, 2384959; 610965, 2384960; 610957, 2384969; 610957, 2384970; 610934, 2384987; 610933, 2384987; 610909, 2384993; 610908, 2384993; 610888, 2384986; 610839, 2384956; 610825, 2384951; 610590, 2385486; 610034, 2385898; 610035, 2385901; 610035, 2385902; 610035, 2385943; 610035, 2385944; 610029, 2385956; 610029, 2385957; 610003, 2385991; 609994, 2386004; 609993, 2386004; 609993, 2386005; 609971, 2386017; 609955, 2386025; 609948, 2386031; 609929, 2386085; 609909, 2386112; 609908, 2386113; 609898, 2386121; 609887, 2386134; 609883, 2386146; 609884, 2386168; 609879, 2386204; 609884, 2386223; 609905, 2386254; 609905, 2386255; 609909, 2386278; 609909, 2386279; 609907, 2386291; 609881, 2386354; 609880, 2386355; 609858, 2386384; 609834, 2386404; 609797, 2386443; 609790, 2386450; 609769, 2386468; 609748, 2386495; 609737, 2386524; 609719, 2386644; 609711, 2386719;

609711, 2386720; 609705, 2386737; 609704, 2386737; 609704, 2386738; 609693, 2386745; 609692, 2386745; 609595, 2386759; 609570, 2386766; 609560, 2386772; 609536, 2386797; 609481, 2386863; 609461, 2386894; 609449, 2386918; 609449, 2386919; 609439, 2386933; 609438, 2386934; 609425, 2386943; 609379, 2386966; 609323, 2387005; 609308, 2387012; 609269, 2387020; 609248, 2387021; 609184, 2387014; 609134, 2387001; 609078, 2386982; 609074, 2386984; 609062, 2387000; 609048, 2387031; 609047, 2387032; 609025, 2387051; 609024, 2387051; 608989, 2387068; 608988, 2387068; 608975, 2387068; 608974, 2387068; 608905, 2387055; 608862, 2387042; 608856, 2387043; 608849, 2387049; 608810, 2387121; 608794, 2387150; 608776, 2387175; 608736, 2387223; 608719, 2387246; 608718, 2387246; 608718, 2387247; 608693, 2387265; 608692, 2387265; 608643, 2387281; 608604, 2387303; 608558, 2387325; 608497, 2387362; 608496, 2387362; 608459, 2387369; 608435, 2387371; 608434, 2387371; 608410, 2387366; 608377, 2387354; 608355, 2387351; 608336, 2387351; 608316, 2387358; 608308, 2387366; 608294, 2387395; 608292, 2387413; 608300, 2387459; 608299, 2387471; 608298, 2387472; 608298, 2387473; 608289, 2387479; 608252, 2387489; 608234, 2387501; 608228, 2387506; 608223, 2387520; 608230, 2387572; 608232, 2387576; 608238, 2387590; 608252, 2387607; 608267, 2387627; 608267, 2387628; 608272, 2387642; 608275, 2387670; 608275, 2387671; 608273, 2387689; 608258, 2387739; 608257, 2387765; 608259, 2387774; 608270, 2387794; 608274, 2387812; 608274, 2387813; 608254, 2387851; 608254, 2387852; 608236, 2387874; 608519, 2387842; 608527, 2387829; 608529, 2387826; 608531, 2387827; 609623, 2387185; 609716, 2386981; 610090, 2387020; 610286, 2386745; 610680, 2386745; 610684, 2386799; 610857, 2386830; 610857, 2386824; 610975, 2386824; 611132, 2386607; 611289, 2386568; 611486, 2386627; 611489, 2386638; 611798, 2386378; 611798, 2386379; 611800, 2386372; 611801, 2386371; 611801, 2386372; 612019, 2386288; 612115, 2386037; 612351, 2385899; 612454, 2385841; 612532, 2385647; 612489, 2385585; 612391, 2385349; 612391, 2385034; 612332, 2384857; 612390, 2384704; 612301, 2384256; 612322, 2383968; 612322, 2383520; 612322, 2383461; 612194, 2383461; 612194, 2383225; 612174, 2382969; 612214, 2382851; 612214, 2382753; 612115, 2382635; 612174, 2382399; 612037, 2382477; 611958, 2382399; 611958, 2382300; 611879, 2382104; 611873, 2381627; 611997, 2381297; 612076, 2381002; 612165, 2380842; 612166, 2380830; 612173, 2380827; 612174, 2380825; 612177, 2380826; 612489, 2380708; 612489, 2380530; 612391, 2380314; 612430, 2380157; 612391, 2380019; 612489, 2380019; 612548, 2379862; 612664, 2379648; 613047, 2379270; 613270, 2379091; 613355, 2378810; 613751, 2378218; 614289, 2378090; 614502, 2377694; 614779, 2377295; 614837, 2377041; 614349, 2376831; 613456, 2377841; 613460, 2377881; 613497, 2377929; 613554, 2377977; return to starting point.

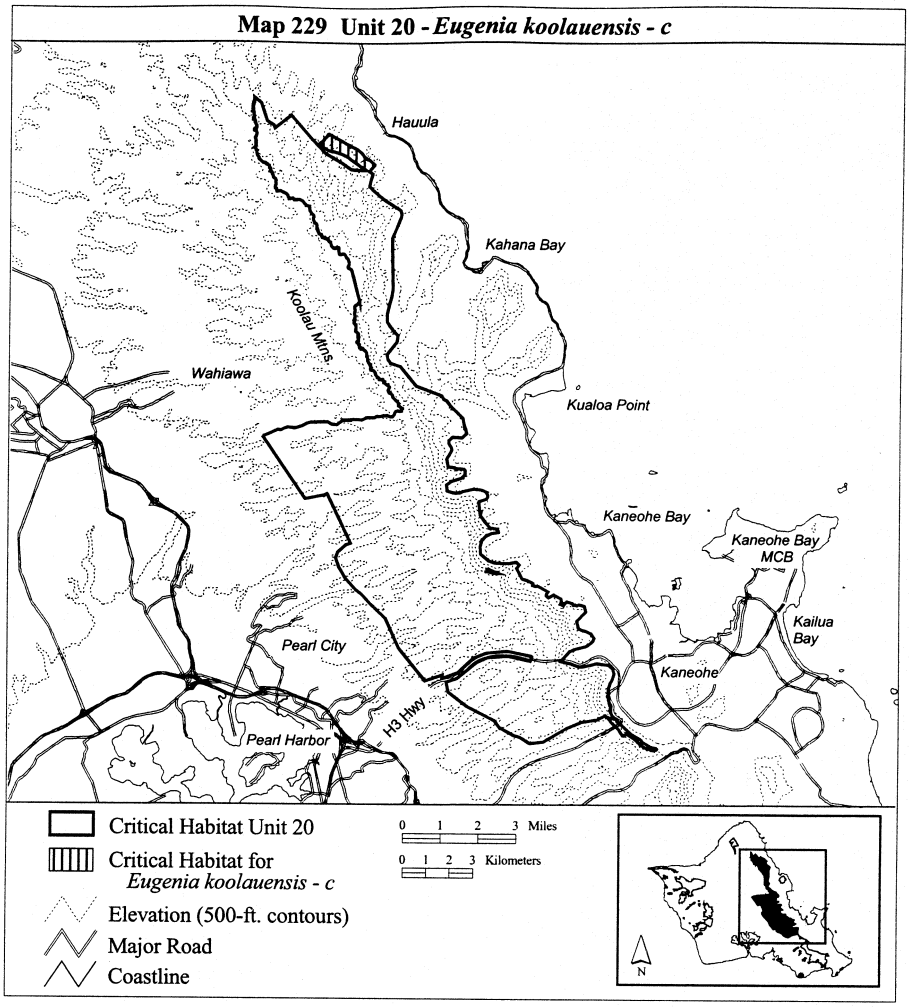
(ii) NOTE: Map 228 follows:



(229) Oahu 20—*Eugenia koolauensis*—c (122 ha; 302 ac)

(i) Unit consists of the following 36 boundary points: Start at 611208, 2389430; 611266, 2389383; 611444, 2389300; 611596, 2389220; 611731, 2389154; 611780, 2389128; 611947, 2388975; 611980, 2388930; 612046, 2388843; 612180, 2388738; 612269, 2388680; 612483, 2388484; 612482, 2388480; 612415, 2388361; 612328, 2388285; 612260, 2388187; 612169, 2388237; 612024, 2388350; 611904, 2388419; 611745, 2388520; 611498, 2388687; 611339, 2388803; 611125, 2388923; 610817, 2389017; 610610, 2389071; 610476, 2389111; 610189, 2389274; 610106, 2389336; 610200, 2389448; 610287, 2389514; 610320, 2389543; 610334, 2389594; 610403, 2389630; 610447, 2389724; 610483, 2389760; 610536, 2389785; return to starting point.

(ii) NOTE: Map 229 follows:

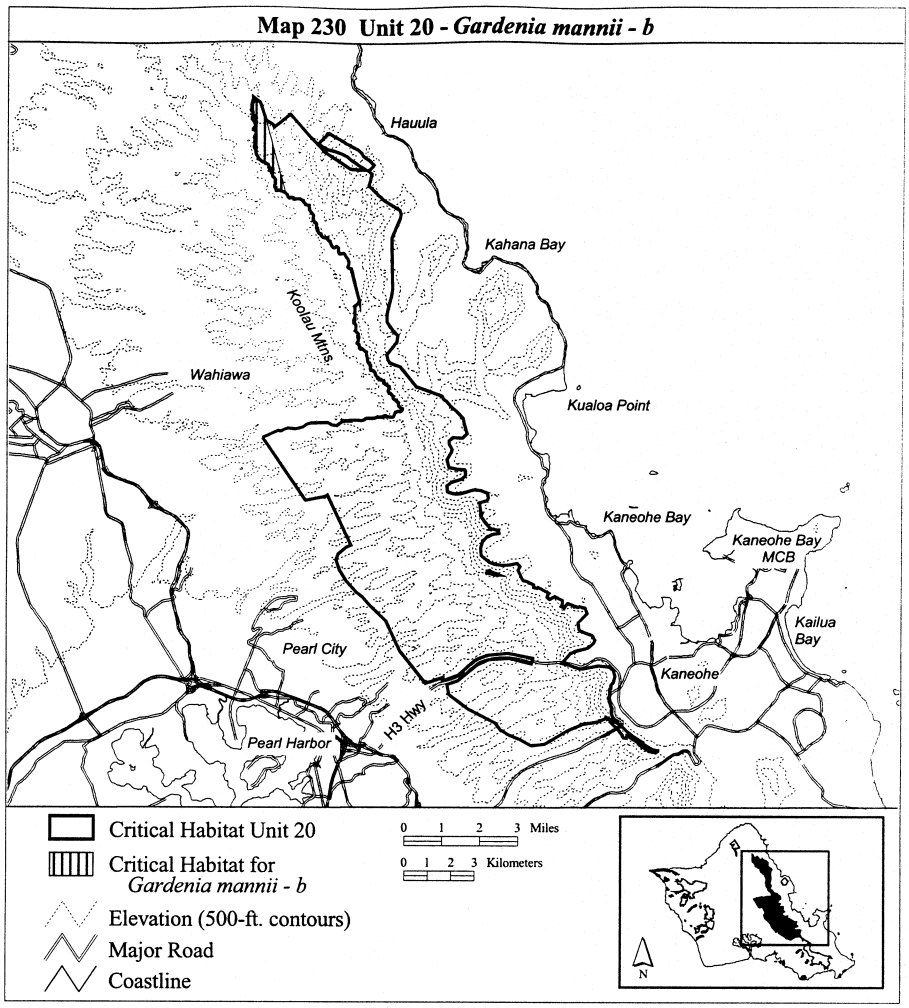


(230) Oahu 20—*Gardenia mannii*—b (206 ha; 510 ac)

(i) Unit consists of the following 302 boundary points: Start at 607315, 2391304; 607614, 2391084; 607875, 2390295; 608495, 2388072; 608540, 2387990; 608535, 2387978; 608688, 2387309; 608637, 2387285; 608604, 2387303; 608558, 2387325; 608497, 2387362; 608496, 2387362; 608459, 2387369; 608458, 2387369; 608435, 2387371; 608434, 2387371; 608410, 2387366; 608377, 2387354; 608355, 2387351; 608336, 2387351; 608316, 2387358; 608308, 2387366; 608294, 2387395; 608292, 2387413; 608300, 2387459; 608299, 2387471; 608298, 2387472; 608298, 2387473; 608289, 2387479; 608252, 2387489; 608234, 2387501; 608228, 2387506; 608223, 2387520; 608230, 2387572; 608232, 2387576; 608238, 2387590; 608252, 2387607; 608267, 2387627; 608267, 2387628; 608272, 2387642; 608275, 2387670; 608275, 2387671; 608273, 2387689; 608258, 2387739; 608257, 2387765; 608259, 2387774; 608270, 2387794; 608274, 2387812; 608274, 2387813; 608254, 2387851; 608254, 2387852; 608227, 2387885; 608190, 2387914; 608165, 2387924; 608146, 2387938; 608143, 2387944; 608141, 2387956; 608156, 2388000;

608156, 2388001; 608156, 2388002; 608152, 2388015; 608129, 2388052; 608116, 2388066; 608100, 2388105; 608092, 2388136; 608092, 2388137; 608082, 2388155; 608034, 2388210; 608029, 2388227; 608037, 2388262; 608037, 2388263; 608034, 2388274; 608017, 2388312; 608011, 2388328; 608011, 2388329; 607997, 2388340; 607987, 2388344; 607980, 2388349; 607975, 2388357; 607973, 2388367; 607974, 2388406; 607974, 2388407; 607972, 2388420; 607965, 2388446; 607964, 2388447; 607956, 2388457; 607956, 2388458; 607898, 2388494; 607897, 2388494; 607887, 2388497; 607865, 2388499; 607855, 2388502; 607821, 2388528; 607809, 2388537; 607808, 2388537; 607783, 2388550; 607782, 2388550; 607736, 2388557; 607735, 2388557; 607719, 2388559; 607692, 2388571; 607666, 2388594; 607654, 2388609; 607653, 2388609; 607613, 2388646; 607567, 2388681; 607550, 2388690; 607540, 2388696; 607534, 2388706; 607532, 2388717; 607534, 2388752; 607534, 2388761; 607534, 2388762; 607514, 2388795; 607461, 2388853; 607451, 2388878; 607448, 2388911; 607450, 2388923; 607446, 2388944; 607426, 2388990; 607425, 2389020; 607427, 2389043; 607427, 2389044; 607417, 2389071; 607411, 2389083; 607404, 2389108; 607378, 2389157; 607359, 2389185; 607358, 2389186; 607353, 2389189; 607357, 2389208; 607364, 2389224; 607376, 2389239; 607389, 2389258; 607389, 2389259; 607394, 2389273; 607399, 2389307; 607400, 2389308; 607399, 2389308; 607397, 2389348; 607395, 2389372; 607394, 2389386; 607393, 2389394; 607394, 2389406; 607393, 2389417; 607393, 2389426; 607393, 2389431; 607396, 2389437; 607406, 2389450; 607412, 2389462; 607414, 2389476; 607414, 2389477; 607407, 2389492; 607407, 2389493; 607406, 2389493; 607399, 2389498; 607391, 2389503; 607387, 2389514; 607387, 2389518; 607386, 2389528; 607384, 2389548; 607384, 2389549; 607371, 2389581; 607369, 2389599; 607385, 2389636; 607406, 2389684; 607426, 2389734; 607434, 2389770; 607432, 2389795; 607432, 2389796; 607420, 2389826; 607409, 2389850; 607411, 2389869; 607411, 2389870; 607405, 2389887; 607404, 2389887; 607404, 2389888; 607379, 2389900; 607356, 2389911; 607349, 2389914; 607342, 2389918; 607333, 2389926; 607328, 2389936; 607326, 2389947; 607329, 2389962; 607336, 2389972; 607346, 2389983; 607357, 2389993; 607367, 2389999; 607380, 2390009; 607391, 2390014; 607403, 2390020; 607403, 2390021; 607414, 2390032; 607424, 2390046; 607424, 2390047; 607430, 2390064; 607430, 2390065; 607434, 2390084; 607434, 2390085; 607433, 2390100; 607433, 2390101; 607428, 2390118; 607428, 2390119; 607419, 2390135; 607409, 2390145; 607400, 2390154; 607394, 2390162; 607392, 2390167; 607390, 2390179; 607389, 2390182; 607381, 2390212; 607375, 2390258; 607374, 2390279; 607374, 2390280; 607373, 2390281; 607356, 2390292; 607344, 2390301; 607342, 2390305; 607340, 2390316; 607340, 2390317; 607335, 2390330; 607334, 2390330; 607329, 2390335; 607318, 2390344; 607310, 2390354; 607301, 2390366; 607291, 2390380; 607285, 2390388; 607284, 2390398; 607288, 2390414; 607293, 2390428; 607300, 2390440; 607306, 2390450; 607306, 2390451; 607312, 2390461; 607316, 2390467; 607316, 2390468; 607319, 2390483; 607317, 2390493; 607315, 2390509; 607310, 2390525; 607305, 2390543; 607301, 2390562; 607296, 2390582; 607294, 2390602; 607294, 2390620; 607295, 2390636; 607297, 2390651; 607295, 2390665; 607295, 2390666; 607291, 2390680; 607285, 2390699; 607284, 2390699; 607275, 2390711; 607274, 2390711; 607265, 2390720; 607261, 2390731; 607261, 2390744; 607258, 2390760; 607266, 2390773; 607273, 2390789; 607280, 2390802; 607283, 2390814; 607283, 2390815; 607279, 2390828; 607275, 2390842; 607270, 2390855; 607265, 2390869; 607263, 2390883; 607260, 2390899; 607259, 2390914; 607260, 2390927; 607261, 2390939; 607265, 2390951; 607268, 2390959; 607268, 2390960; 607269, 2390971; 607271, 2390983; 607271, 2390997; 607270, 2391013; 607270, 2391025; 607278, 2391038; 607286, 2391053; 607292, 2391065; 607297, 2391078; 607302, 2391095; 607307, 2391111; 607312, 2391127; 607312, 2391128; 607315, 2391144; 607319, 2391156; 607322, 2391172; 607325, 2391188; 607325, 2391203; 607324, 2391216; 607324, 2391229; 607324, 2391243; 607323, 2391259; 607322, 2391271; 607321, 2391284; 607317, 2391297; return to starting point.

(ii) NOTE: Map 230 follows:

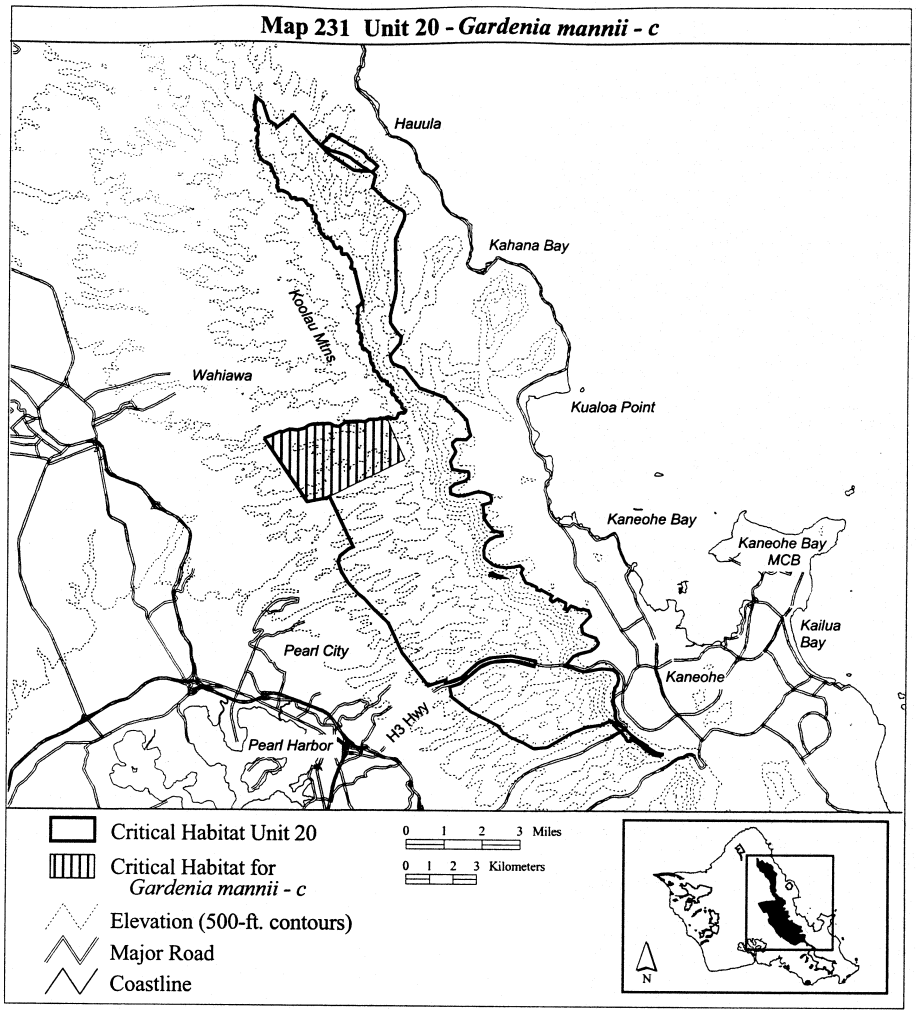


(231) Oahu 20—*Gardenia mannii*—c (1,311 ha; 3,239 ac)

(i) Unit consists of the following 70 boundary points: Start at 610084, 2377493; 610560, 2377510; 610747, 2377396; 610965, 2377385; 611183, 2377541; 611328, 2377562; 611806, 2377593; 612055, 2377562; 612081, 2377577; 612103, 2377583; 612103, 2377584; 612166, 2377617; 612168, 2377619; 612169, 2377619; 612210, 2377654; 612263, 2377686; 612414, 2377680; 612432, 2377673; 612468, 2377676; 612472, 2377678; 612533, 2377676; 612613, 2377702; 612630, 2377702; 612668, 2377720; 612669, 2377721; 612720, 2377738; 612793, 2377718; 612845, 2377739; 612853, 2377742; 612870, 2377747; 612960, 2377754; 613728, 2375972; 610456, 2374325; 609627, 2374155; 607793, 2376879; 607838, 2376897; 607901, 2376922; 607901, 2376921; 607907, 2376916; 607913, 2376915; 607935, 2376919; 607956, 2376931; 607962, 2376938; 607962, 2376945; 608077, 2376990; 608090, 2376996; 608098, 2376990; 608118, 2376996; 608134, 2377006; 608141, 2377013; 608141, 2377021; 608440, 2377167; 608565, 2377136; 608700, 2377209; 608866, 2377271; 609188, 2377229; 609224, 2377240; 609224, 2377239;

609234, 2377232; 609243, 2377236; 609245, 2377246; 609500, 2377323; 609656, 2377416; 609843, 2377489; 609967, 2377489; 610035, 2377491; 610041, 2377483; 610051, 2377480; 610079, 2377484; 610084, 2377489; return to starting point.

(ii) NOTE: Map 231 follows:

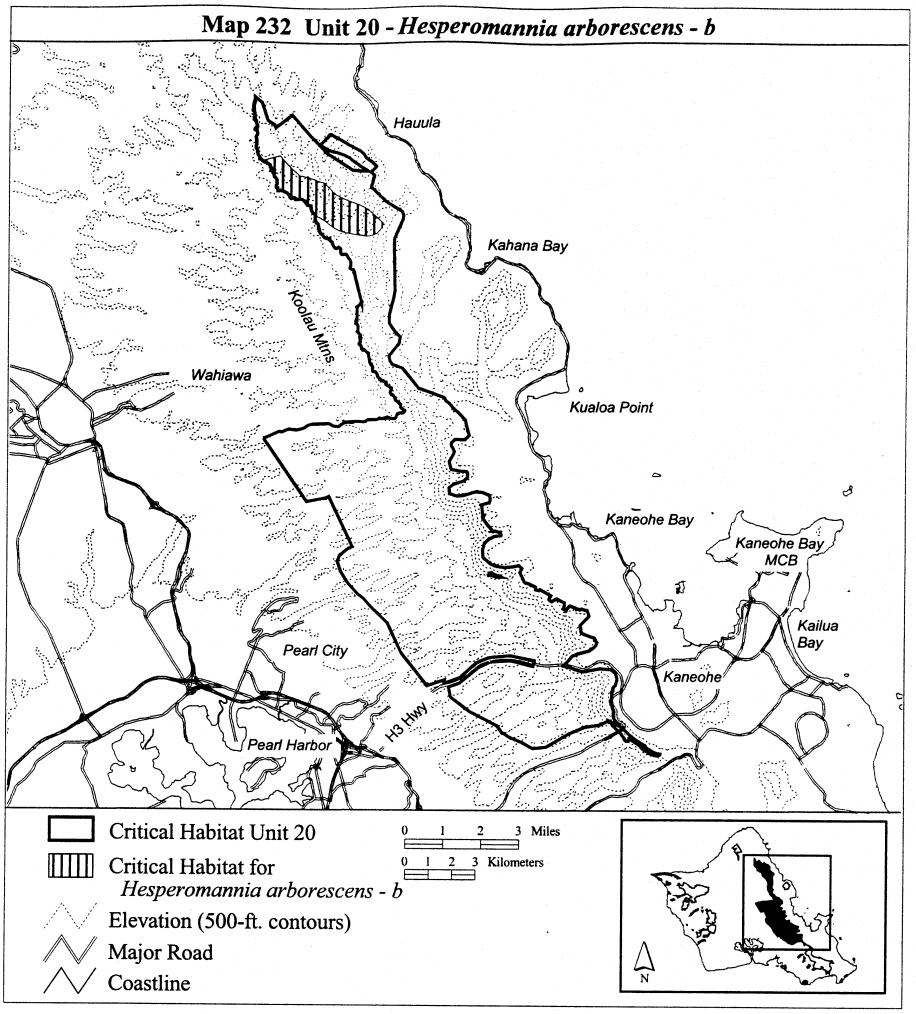


(232) Oahu 20—*Hesperomannia arborescens*—b (590 ha; 1,457 ac)

(i) Unit consists of the following 187 boundary points: Start at 609226, 2388010; 609538, 2387950; 609766, 2387880; 610114, 2387759; 610304, 2387704; 610480, 2387518; 610619, 2387365; 610800, 2387217; 611092, 2387073; 611417, 2386957; 611798, 2386818; 612081, 2386678; 612401, 2386414; 612749, 2386112; 612800, 2386052; 612744, 2385862; 612544, 2385616; 612349, 2385540; 612125, 2385498; 611748, 2385522; 611214, 2385619; 610899, 2385710; 610601, 2385862; 610340, 2386080; 610097, 2386238; 609924, 2386325; 609905, 2386410; 609865, 2386375;

609858, 2386384; 609834, 2386404; 609797, 2386443; 609797, 2386444; 609790, 2386450; 609769, 2386468; 609748, 2386495; 609737, 2386524; 609719, 2386644; 609711, 2386719; 609711, 2386720; 609705, 2386737; 609704, 2386737; 609704, 2386738; 609693, 2386745; 609692, 2386745; 609595, 2386759; 609570, 2386766; 609560, 2386772; 609536, 2386797; 609481, 2386863; 609461, 2386894; 609449, 2386918; 609449, 2386919; 609439, 2386933; 609438, 2386934; 609425, 2386943; 609379, 2386966; 609323, 2387005; 609322, 2387005; 609308, 2387012; 609269, 2387020; 609248, 2387021; 609184, 2387014; 609134, 2387001; 609078, 2386982; 609074, 2386984; 609062, 2387000; 609048, 2387031; 609047, 2387032; 609025, 2387051; 609024, 2387051; 608989, 2387068; 608988, 2387068; 608975, 2387068; 608974, 2387068; 608905, 2387055; 608862, 2387042; 608856, 2387043; 608849, 2387049; 608810, 2387121; 608794, 2387150; 608794, 2387151; 608776, 2387175; 608736, 2387223; 608719, 2387246; 608718, 2387246; 608718, 2387247; 608693, 2387265; 608692, 2387265; 608643, 2387281; 608604, 2387303; 608558, 2387325; 608497, 2387362; 608496, 2387362; 608459, 2387369; 608458, 2387369; 608435, 2387371; 608434, 2387371; 608410, 2387366; 608377, 2387354; 608355, 2387351; 608336, 2387351; 608316, 2387358; 608308, 2387366; 608294, 2387395; 608292, 2387413; 608300, 2387459; 608299, 2387471; 608298, 2387472; 608298, 2387473; 608289, 2387479; 608252, 2387489; 608234, 2387501; 608228, 2387506; 608223, 2387520; 608230, 2387572; 608232, 2387576; 608238, 2387590; 608252, 2387607; 608267, 2387627; 608267, 2387628; 608272, 2387642; 608275, 2387670; 608275, 2387671; 608273, 2387689; 608258, 2387739; 608257, 2387765; 608259, 2387774; 608270, 2387794; 608274, 2387812; 608274, 2387813; 608254, 2387851; 608254, 2387852; 608227, 2387885; 608190, 2387914; 608165, 2387924; 608146, 2387938; 608143, 2387944; 608141, 2387956; 608156, 2388000; 608156, 2388001; 608156, 2388002; 608152, 2388015; 608129, 2388052; 608116, 2388066; 608100, 2388105; 608092, 2388136; 608092, 2388137; 608082, 2388155; 608034, 2388210; 608029, 2388227; 608037, 2388262; 608037, 2388263; 608034, 2388274; 608017, 2388312; 608011, 2388328; 608011, 2388329; 607997, 2388340; 607987, 2388344; 607980, 2388349; 607975, 2388357; 607973, 2388367; 607974, 2388406; 607974, 2388407; 607972, 2388420; 607965, 2388446; 607964, 2388447; 607956, 2388457; 607956, 2388458; 607898, 2388494; 607897, 2388494; 607887, 2388497; 607865, 2388499; 607855, 2388502; 607821, 2388528; 607809, 2388537; 607808, 2388537; 607783, 2388550; 607782, 2388550; 607736, 2388557; 607719, 2388559; 607692, 2388571; 607666, 2388594; 607654, 2388609; 607653, 2388609; 607650, 2388612; 608396, 2388827; 608778, 2388404; return to starting point.

(ii) NOTE: Map 232 follows:

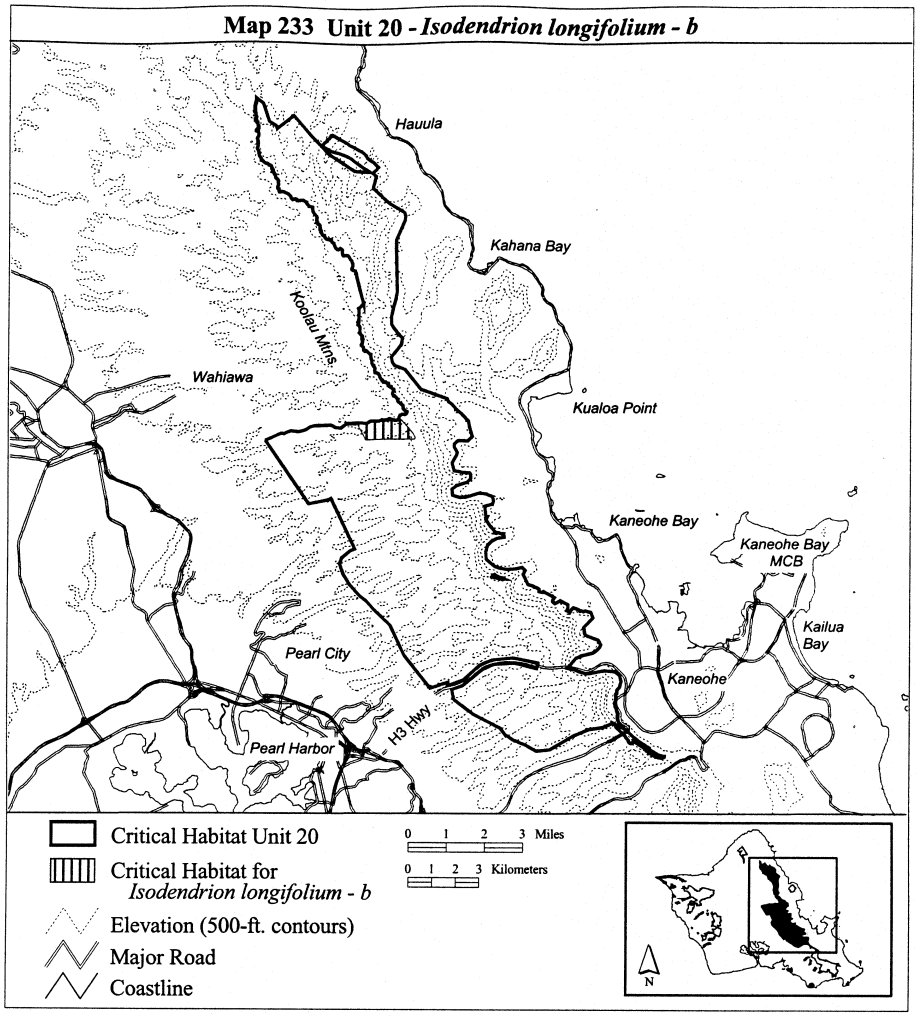


(233) Oahu 20—*Isodendrion longifolium*—b (162 ha; 399 ac)

(i) Unit consists of the following 73 boundary points: Start at 613455, 2377836; 613487, 2377807; 613820, 2377415; 614019, 2377187; 614101, 2377012; 614098, 2376925; 612988, 2376944; 612008, 2376886; 611978, 2376959; 611656, 2377538; 611616, 2377608; 611620, 2377608; 611632, 2377597; 611636, 2377596; 611663, 2377589; 611666, 2377588; 611685, 2377589; 611731, 2377598; 611739, 2377608; 611845, 2377608; 612012, 2377589; 612011, 2377588; 612012, 2377584; 612038, 2377574; 612066, 2377574; 612069, 2377574; 612103, 2377583; 612103, 2377584; 612166, 2377617; 612168, 2377619; 612169, 2377619; 612247, 2377687; 612247, 2377695; 612255, 2377697; 612402, 2377690; 612402, 2377689; 612403, 2377685; 612432, 2377673; 612468, 2377676; 612482, 2377684; 612483, 2377688; 612505, 2377688; 612575, 2377698; 612576, 2377698; 612596, 2377708; 612604, 2377703; 612630, 2377702; 612668, 2377720; 612688, 2377749; 612686, 2377751; 612705, 2377757; 612764, 2377738; 612765, 2377738; 612794, 2377742; 612814, 2377728; 612853, 2377742; 612870, 2377747; 613040, 2377760;

613059, 2377772; 613059, 2377774; 613085, 2377777; 613154, 2377768; 613224, 2377738; 613264, 2377728; 613265, 2377728; 613335, 2377738; 613336, 2377738; 613359, 2377752; 613368, 2377747; 613413, 2377754; 613415, 2377755; 613449, 2377784; 613454, 2377825; return to starting point.

(ii) NOTE: Map 233 follows:

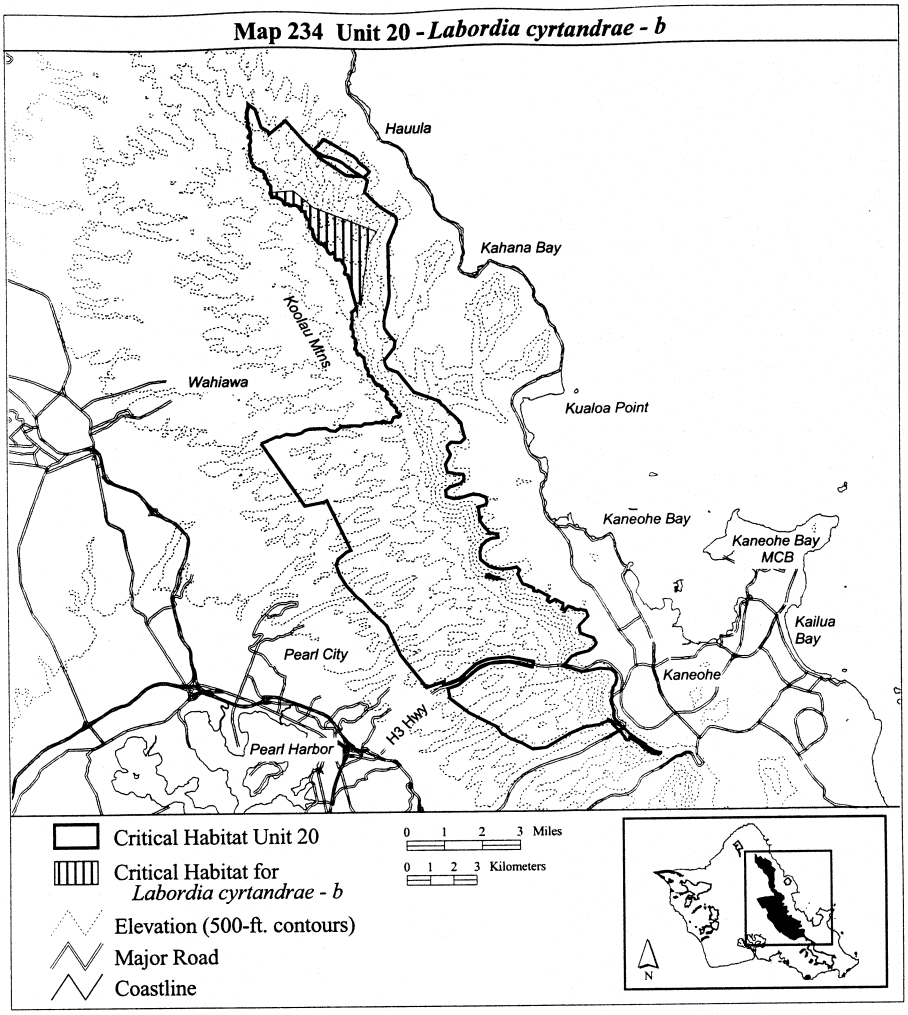


(234) Oahu 20—*Labordia cyrtandrae*—b (595 ha; 1,471 ac)

(i) Unit consists of the following 254 boundary points: Start at 608229, 2387567; 609230, 2387634; 610071, 2386913; 612807, 2385912; 612446, 2385365; 612366, 2384991; 612326, 2384471; 612219, 2383924; 612113, 2382763; 611821, 2382957; 611795, 2383056; 611597, 2383822; 611567, 2383939; 611567, 2383940; 611561, 2383949; 611537, 2384020; 611536, 2384020; 611525, 2384040; 611515, 2384051; 611495, 2384064; 611460, 2384078; 611430, 2384082; 611404, 2384097; 611396, 2384120; 611393, 2384150; 611397,

2384172; 611413, 2384204; 611422, 2384233; 611428, 2384263; 611435, 2384302; 611435, 2384321; 611429, 2384356; 611429, 2384357; 611417, 2384382; 611394, 2384464; 611387, 2384476; 611374, 2384488; 611374, 2384489; 611358, 2384501; 611334, 2384524; 611326, 2384536; 611302, 2384584; 611257, 2384667; 611256, 2384667; 611245, 2384680; 611244, 2384681; 611224, 2384695; 611223, 2384695; 611203, 2384703; 611202, 2384704; 611192, 2384704; 611191, 2384703; 611165, 2384698; 611119, 2384696; 611118, 2384696; 611082, 2384690; 611081, 2384690; 611065, 2384682; 611064, 2384681; 611058, 2384675; 611046, 2384674; 611039, 2384675; 611028, 2384688; 611014, 2384713; 610994, 2384778; 610981, 2384838; 610976, 2384927; 610973, 2384941; 610973, 2384942; 610965, 2384959; 610965, 2384960; 610957, 2384969; 610957, 2384970; 610934, 2384987; 610933, 2384987; 610909, 2384993; 610908, 2384993; 610888, 2384986; 610839, 2384956; 610809, 2384945; 610780, 2384942; 610766, 2384942; 610749, 2384953; 610709, 2384995; 610692, 2385014; 610679, 2385041; 610630, 2385180; 610616, 2385205; 610606, 2385215; 610606, 2385216; 610598, 2385220; 610558, 2385236; 610543, 2385248; 610533, 2385266; 610516, 2385329; 610509, 2385341; 610509, 2385342; 610508, 2385342; 610497, 2385351; 610496, 2385351; 610454, 2385362; 610440, 2385362; 610394, 2385362; 610370, 2385370; 610333, 2385392; 610292, 2385406; 610280, 2385413; 610261, 2385429; 610248, 2385449; 610237, 2385473; 610222, 2385512; 610222, 2385513; 610214, 2385522; 610206, 2385531; 610206, 2385532; 610187, 2385540; 610166, 2385544; 610134, 2385558; 610129, 2385561; 610122, 2385580; 610119, 2385604; 610119, 2385605; 610112, 2385620; 610111, 2385621; 610093, 2385637; 610078, 2385652; 610077, 2385659; 610090, 2385687; 610097, 2385698; 610098, 2385699; 610098, 2385700; 610097, 2385705; 610097, 2385706; 610081, 2385734; 610054, 2385762; 610039, 2385790; 610028, 2385816; 610024, 2385839; 610027, 2385873; 610035, 2385901; 610035, 2385902; 610035, 2385943; 610035, 2385944; 610029, 2385956; 610029, 2385957; 610003, 2385991; 609994, 2386004; 609993, 2386004; 609993, 2386005; 609971, 2386017; 609955, 2386025; 609948, 2386031; 609929, 2386085; 609909, 2386112; 609908, 2386113; 609898, 2386121; 609887, 2386134; 609883, 2386146; 609884, 2386168; 609879, 2386204; 609884, 2386223; 609905, 2386254; 609905, 2386255; 609909, 2386278; 609909, 2386279; 609907, 2386291; 609881, 2386354; 609880, 2386355; 609858, 2386384; 609834, 2386404; 609797, 2386443; 609797, 2386444; 609790, 2386450; 609769, 2386468; 609748, 2386495; 609737, 2386524; 609719, 2386644; 609711, 2386719; 609711, 2386720; 609705, 2386737; 609704, 2386737; 609704, 2386738; 609693, 2386745; 609692, 2386745; 609595, 2386759; 609570, 2386766; 609560, 2386772; 609536, 2386797; 609481, 2386863; 609461, 2386894; 609449, 2386918; 609449, 2386919; 609439, 2386933; 609438, 2386934; 609425, 2386943; 609379, 2386966; 609323, 2387005; 609308, 2387012; 609269, 2387020; 609248, 2387021; 609184, 2387014; 609134, 2387001; 609078, 2386982; 609074, 2386984; 609062, 2387000; 609048, 2387031; 609047, 2387032; 609025, 2387051; 609024, 2387051; 608989, 2387068; 608988, 2387068; 608975, 2387068; 608975, 2387069; 608974, 2387068; 608905, 2387055; 608862, 2387042; 608856, 2387043; 608849, 2387049; 608810, 2387121; 608794, 2387150; 608794, 2387151; 608776, 2387175; 608736, 2387223; 608719, 2387246; 608718, 2387246; 608718, 2387247; 608693, 2387265; 608692, 2387265; 608643, 2387281; 608604, 2387303; 608558, 2387325; 608497, 2387362; 608496, 2387362; 608459, 2387369; 608458, 2387369; 608435, 2387371; 608434, 2387371; 608410, 2387366; 608377, 2387354; 608355, 2387351; 608336, 2387351; 608316, 2387358; 608308, 2387366; 608294, 2387395; 608292, 2387413; 608300, 2387459; 608299, 2387471; 608298, 2387472; 608298, 2387473; 608289, 2387479; 608252, 2387489; 608234, 2387501; 608228, 2387506; 608223, 2387520; return to starting point.

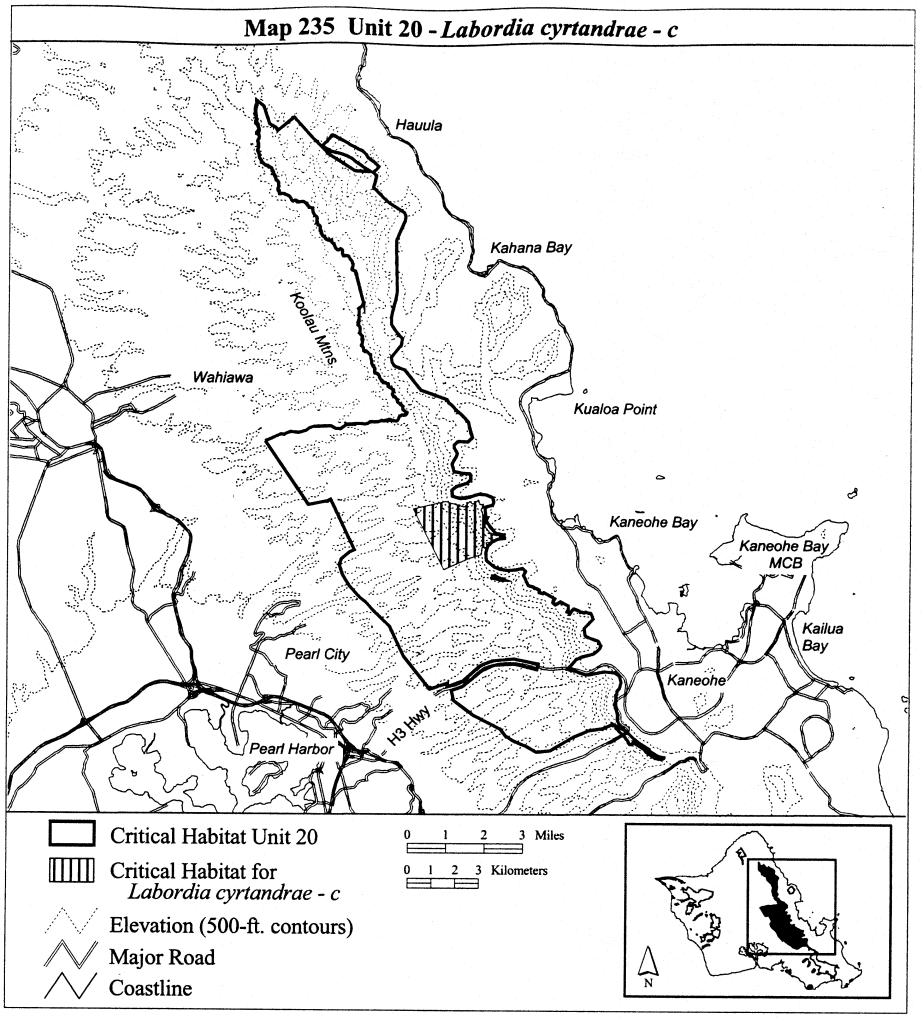
(ii) NOTE: Map 234 follows:



(235) Oahu 20—*Labordia cyrtandrae*—c (618 ha; 1,526 ac)

(i) Unit consists of the following 27 boundary points: Start at 614062, 2373984; 615409, 2374312; 615975, 2374135; 616187, 2374082; 616434, 2374312; 616522, 2374206; 616787, 2374365; 616840, 2374188; 616999, 2374206; 616893, 2373940; 616999, 2373728; 616999, 2373622; 617159, 2373640; 617088, 2373446; 617070, 2373251; 617282, 2372986; 617583, 2372898; 617883, 2372810; 617883, 2372757; 617477, 2372704; 617353, 2372615; 617106, 2372562; 617176, 2372386; 616929, 2372350; 616911, 2372067; 616452, 2371908; 615356, 2371420; return to starting point.

(ii) NOTE: Map 235 follows:



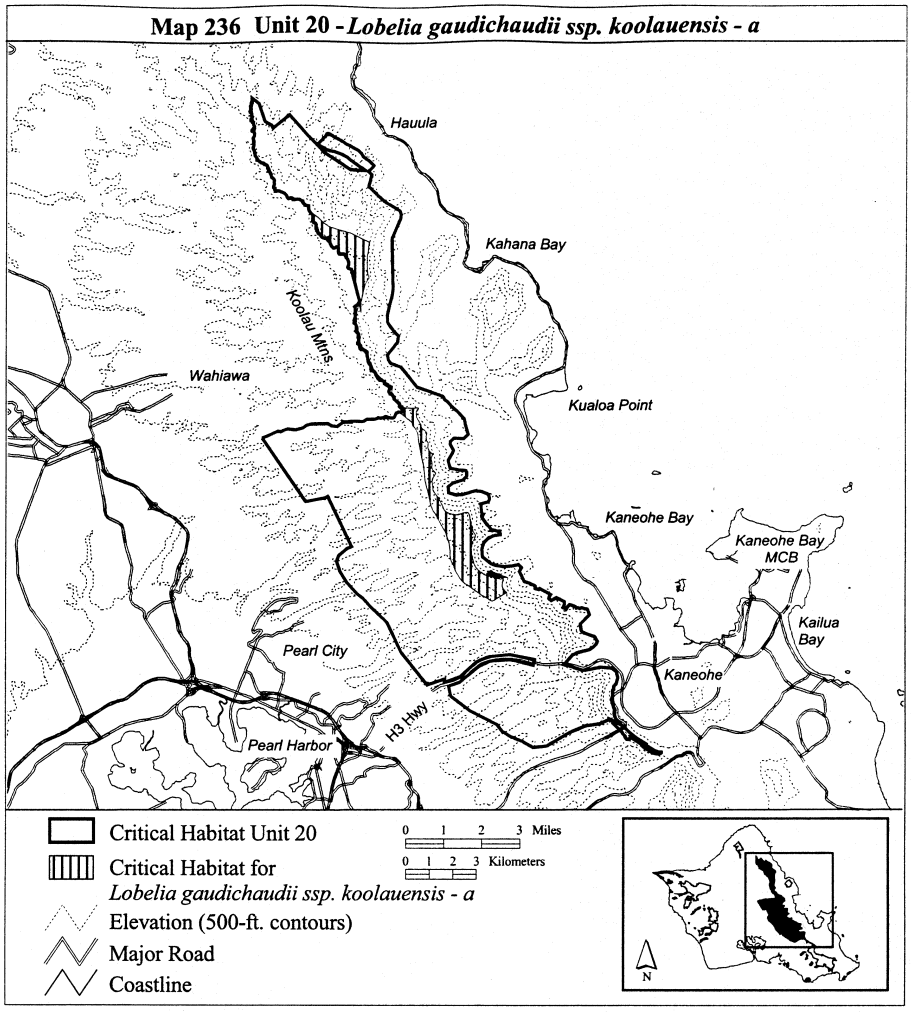
(236) Oahu 20—*Lobelia gaudichaudii* ssp. *koolauensis*—a (926 ha; 2,287 ac)

(i) Unit consists of the following 591 boundary points: Start at 613751, 2378091; 613747, 2378094; 613746, 2378095; 613718, 2378106; 613711, 2378117; 613691, 2378143; 613660, 2378168; 613602, 2378212; 613593, 2378224; 613586, 2378238; 613583, 2378253; 613583, 2378292; 613583, 2378328; 613583, 2378329; 613568, 2378356; 613568, 2378357; 613556, 2378372; 613524, 2378400; 613517, 2378408; 613476, 2378444; 613462, 2378463; 613447, 2378478; 613424, 2378499; 613386, 2378532; 613364, 2378562; 613346, 2378613; 613330, 2378641; 613265, 2378728; 613248, 2378749; 613247, 2378750; 613232, 2378759; 613213, 2378764; 613199, 2378769; 613190, 2378778; 613172, 2378818; 613172, 2378819; 613152, 2378848; 613147, 2378859; 613147, 2378860; 613146, 2378860; 613145, 2378860; 613145, 2378861; 613146, 2378862; 613144, 2378873; 613159, 2378951; 613185, 2378998; 613187, 2379004; 613187, 2379005; 613185, 2379019; 613185, 2379020; 613171, 2379040; 613142, 2379072; 613115, 2379100; 613099, 2379113; 613098, 2379113; 613063,

2379127; 612997, 2379166; 612978, 2379188; 612969, 2379215; 612963, 2379226; 612959, 2379247; 612959, 2379248; 612945, 2379276; 612945, 2379277; 612929, 2379297; 612928, 2379298; 612905, 2379314; 612876, 2379327; 612840, 2379337; 612770, 2379350; 612764, 2379355; 612758, 2379364; 612748, 2379389; 612748, 2379390; 612725, 2379410; 612700, 2379424; 612683, 2379441; 612663, 2379470; 612619, 2379529; 612600, 2379563; 612586, 2379618; 612573, 2379650; 612555, 2379679; 612517, 2379716; 612495, 2379729; 612412, 2379753; 612397, 2379761; 612387, 2379798; 612388, 2379851; 612386, 2379928; 612379, 2379961; 612379, 2379962; 612375, 2379970; 612367, 2379981; 612366, 2379981; 612366, 2379982; 612353, 2379991; 612328, 2380018; 612262, 2380145; 612255, 2380163; 612249, 2380199; 612248, 2380233; 612234, 2380304; 612226, 2380334; 612225, 2380334; 612224, 2380337; 612211, 2380367; 612213, 2380397; 612218, 2380419; 612218, 2380420; 612215, 2380452; 612212, 2380464; 612202, 2380506; 612202, 2380507; 612197, 2380516; 612177, 2380539; 612112, 2380593; 612086, 2380625; 612073, 2380644; 612046, 2380669; 612046, 2380670; 612016, 2380686; 611992, 2380690; 611965, 2380687; 611955, 2380689; 611941, 2380693; 611927, 2380702; 611919, 2380710; 611905, 2380743; 611889, 2380825; 611889, 2380826; 611880, 2380839; 611856, 2380862; 611812, 2380892; 611799, 2380905; 611798, 2380918; 611800, 2380925; 611815, 2380943; 611838, 2380960; 611838, 2380961; 611848, 2380980; 611851, 2381022; 611848, 2381067; 611853, 2381081; 611879, 2381118; 611879, 2381119; 611879, 2381131; 611879, 2381132; 611868, 2381149; 611858, 2381155; 611857, 2381155; 611847, 2381160; 611837, 2381167; 611828, 2381178; 611825, 2381193; 611830, 2381214; 611838, 2381223; 611854, 2381250; 611856, 2381258; 611855, 2381265; 611849, 2381285; 611848, 2381286; 611828, 2381312; 611784, 2381363; 611765, 2381383; 611734, 2381424; 611733, 2381424; 611730, 2381426; 611737, 2381446; 611745, 2381514; 611746, 2381550; 611748, 2381618; 611748, 2381619; 611739, 2381669; 611736, 2381680; 611736, 2381681; 611727, 2381699; 611726, 2381700; 611673, 2381758; 611666, 2381774; 611666, 2381794; 611670, 2381810; 611702, 2381865; 611703, 2381866; 611712, 2381882; 611712, 2381883; 611712, 2381915; 611712, 2381916; 611710, 2381923; 611687, 2381955; 611687, 2381978; 611695, 2381990; 611702, 2382013; 611702, 2382014; 611700, 2382058; 611694, 2382120; 611695, 2382225; 611701, 2382278; 611699, 2382320; 611695, 2382360; 611693, 2382433; 611692, 2382455; 611698, 2382473; 611744, 2382512; 611805, 2382557; 611831, 2382588; 611844, 2382604; 611844, 2382605; 611850, 2382621; 611874, 2382653; 611896, 2382683; 611896, 2382684; 611903, 2382704; 611903, 2382705; 611903, 2382706; 611902, 2382707; 611901, 2382707; 611900, 2382707; 611900, 2382706; 611899, 2382706; 611892, 2382686; 611891, 2382684; 611795, 2383056; 611597, 2383822; 611567, 2383939; 611567, 2383940; 611561, 2383949; 611537, 2384020; 611536, 2384020; 611525, 2384040; 611515, 2384051; 611495, 2384064; 611460, 2384078; 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(ii) NOTE: Map 236 follows:



(237) Oahu 20—*Lobelia oahuensis*—a (493 ha; 1,218 ac)

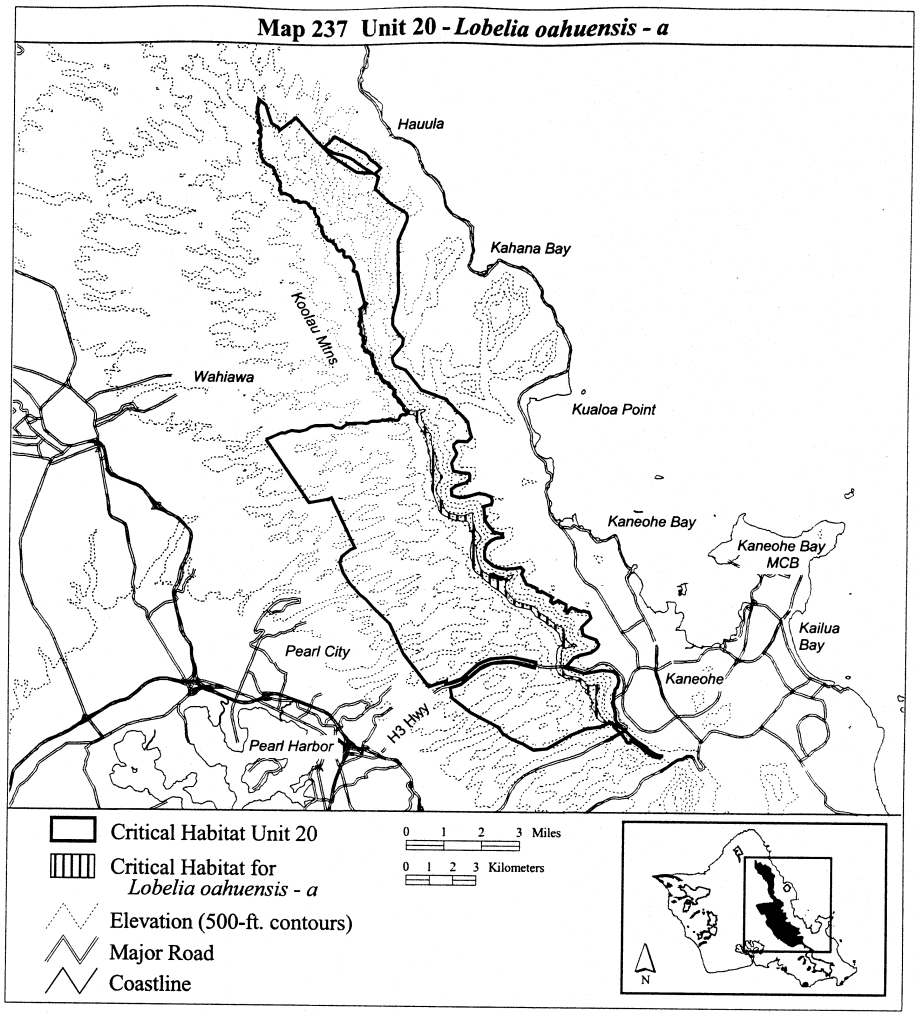
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2378093; 613753, 2378093; return to starting point.

(ii) NOTE: Map 237 follows:



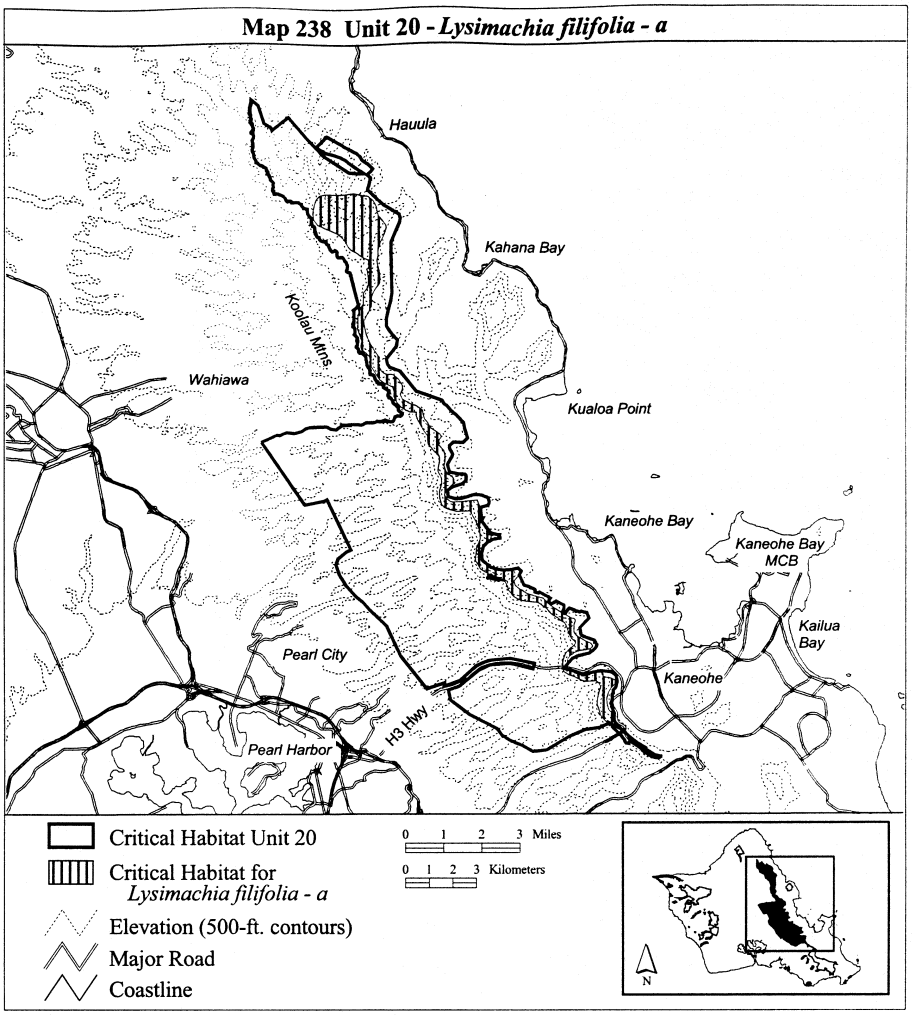
(238) Oahu 20—*Lysimachia filifolia*—a (1,514 ha; 3,741 ac)

(i) Unit consists of the following 333 boundary points: Start at 622547, 2364906; 622392, 2365018; 622231, 2365150; 622133, 2365305; 622037, 2365661; 622013, 2365661; 622019, 2365874; 622064, 2366138; 622093, 2366310; 622156, 2366460; 622128, 2366563; 622082, 2366649; 621950, 2366718; 621645, 2366708; 621496, 2366708; 621369, 2366748; 621214, 2366817; 621053, 2366892; 620818, 2366989; 620582, 2367122; 620553, 2367236; 620553, 2367363; 620542, 2367512; 620571, 2367673; 620663, 2367845; 620743, 2367966; 620898, 2368127; 621042, 2368236; 621082, 2368305; 621053, 2368409; 620910, 2368518; 620818, 2368690; 620720, 2369000; 620617, 2369178; 620462, 2369276; 620345, 2369363; 620061, 2369535; 619852, 2369805;

619545, 2370014; 619336, 2370051; 618992, 2370088; 618685, 2370149; 618414, 2370321; 618242, 2370567; 618193, 2370752; 618107, 2370924; 617996, 2370960; 617578, 2371133; 617050, 2371477; 616829, 2371821; 616902, 2372362; 617038, 2372718; 617025, 2373050; 616853, 2373505; 616607, 2373923; 616030, 2373911; 615648, 2374021; 615403, 2374181; 615317, 2374501; 615329, 2374771; 615403, 2375078; 615415, 2375324; 615267, 2375619; 615292, 2375841; 615317, 2376025; 615317, 2376234; 615009, 2376603; 615009, 2376620; 615004, 2376613; 614843, 2376808; 614825, 2377015; 614825, 2377136; 614670, 2377337; 614492, 2377664; 614372, 2377888; 614331, 2378038; 614349, 2378147; 614084, 2378170; 613740, 2378336; 613533, 2378572; 613401, 2378825; 613429, 2379003; 613326, 2379210; 613016, 2379371; 612780, 2379543; 612648, 2379727; 612487, 2379997; 612372, 2380152; 612372, 2380284; 612408, 2380419; 612389, 2380468; 612286, 2380594; 612039, 2380784; 611999, 2380916; 612033, 2381169; 611918, 2381508; 611855, 2381692; 611867, 2381829; 611872, 2381985; 611872, 2382180; 611930, 2382444; 611976, 2382576; 612102, 2382714; 612114, 2382789; 612114, 2382996; 612114, 2383174; 612160, 2383289; 612298, 2383444; 612315, 2383593; 612326, 2383817; 612303, 2384007; 612252, 2384169; 612246, 2384168; 612251, 2384174; 612240, 2384208; 612280, 2384215; 612320, 2384271; 612338, 2384392; 612309, 2384604; 612091, 2384714; 611803, 2384892; 611602, 2385012; 611464, 2385122; 611361, 2385311; 611200, 2385558; 610970, 2385719; 610482, 2385920; 610160, 2386070; 609988, 2386294; 609948, 2386569; 610011, 2386880; 610063, 2387104; 610246, 2387282; 610488, 2387345; 610942, 2387333; 611125, 2387333; 611390, 2387368; 611711, 2387420; 611987, 2387356; 612286, 2387310; 612510, 2387144; 612648, 2386874; 612671, 2386644; 612757, 2386454; 612947, 2386230; 613033, 2386098; 613062, 2385989; 612970, 2385679; 612884, 2385478; 612797, 2385294; 612728, 2385047; 612728, 2384783; 612682, 2384604; 612700, 2384426; 612746, 2384260; 612737, 2384258; 612780, 2384070; 612797, 2383817; 612797, 2383634; 612636, 2383421; 612499, 2383208; 612435, 2383013; 612441, 2382783; 612435, 2382622; 612372, 2382496; 612257, 2382260; 612125, 2382002; 612148, 2381784; 612234, 2381410; 612418, 2381014; 612579, 2380767; 612786, 2380474; 612779, 2380473; 612734, 2380198; 612780, 2380054; 612872, 2379888; 612993, 2379790; 613113, 2379744; 613268, 2379744; 613406, 2379721; 613590, 2379566; 613768, 2379290; 613768, 2379106; 613676, 2378905; 613757, 2378710; 614079, 2378526; 614360, 2378423; 614596, 2378250; 614636, 2378078; 614682, 2377888; 614814, 2377710; 614940, 2377492; 615193, 2377325; 615354, 2377210; 615394, 2377131; 615427, 2377131; 615304, 2376959; 615304, 2376750; 615489, 2376504; 615562, 2376295; 615562, 2376049; 615513, 2375853; 615599, 2375595; 615907, 2375324; 615943, 2375115; 615636, 2374808; 615538, 2374611; 615624, 2374451; 615808, 2374304; 616128, 2374304; 616546, 2374341; 616915, 2374402; 617050, 2374034; 617111, 2373505; 617296, 2373222; 617431, 2373075; 617517, 2372964; 617480, 2372718; 617185, 2372423; 617111, 2372153; 617124, 2371821; 617480, 2371538; 617714, 2371440; 618045, 2371415; 618377, 2371428; 618648, 2371489; 618771, 2371366; 618648, 2371145; 618476, 2370936; 618525, 2370776; 618660, 2370641; 619041, 2370420; 619508, 2370260; 619705, 2370211; 620012, 2369916; 620467, 2369633; 620811, 2369436; 620810, 2369436; 620933, 2369379; 621036, 2369345; 621082, 2369265; 621025, 2369104; 621013, 2368897; 621019, 2368788; 621088, 2368690; 621197, 2368592; 621312, 2368535; 621530, 2368403; 621737, 2368305; 621817, 2368201; 621771, 2368104; 621593, 2368041; 621341, 2368012; 621053, 2367926; 620835, 2367765; 620743, 2367604; 620743, 2367424; 620604, 2367260; 620603, 2367259; 620604, 2367258; 620865, 2367188; 621059, 2367041; 621398, 2366932; 621484, 2366920; 621691, 2366984; 621800, 2367063; 621978, 2367103; 622093, 2367103; 622151, 2367103; 622260, 2367023; 622271, 2366891; 622398, 2366868; 622593, 2366862; 622760, 2366759; 622765, 2366632; 622765, 2366581; 622639, 2366454; 622484, 2366224; 622421, 2365960; 622449, 2365662; 622467, 2365661; 622478, 2365541; 622576, 2365431; 622668, 2365391; 622745, 2365350; 622721, 2365226; 622702, 2365179; 622708, 2365159; 622707, 2365156; 622714, 2365138; 622737, 2365058; 622775, 2364977; 622782, 2364959; 622783, 2364959; 622946, 2364800; 623041, 2364696; 623146, 2364605; 623414, 2364344; 623432, 2364332; 623639, 2364167; 623880, 2364018; 623982, 2363952; 624084, 2363881; 624075, 2363840; 624185, 2363777; 624483, 2363599; 624661, 2363558; 624694, 2363558; 624716, 2363547; 624725, 2363518; 624702, 2363484; 624592, 2363467; 624437, 2363495; 624253, 2363576; 624041, 2363691; 623869, 2363863; 623736, 2363966; 623432, 2364156; 623328, 2364259; 623260, 2364323; 623179, 2364455; 623030, 2364610; 622926, 2364708; 622789, 2364820; 622726, 2364839; 622749, 2364824; 622714, 2364840; 622716, 2364842; 622576, 2364886; 622555, 2364901; 622550,

2364906; 622549, 2364907; 622548, 2364907; return to starting point.

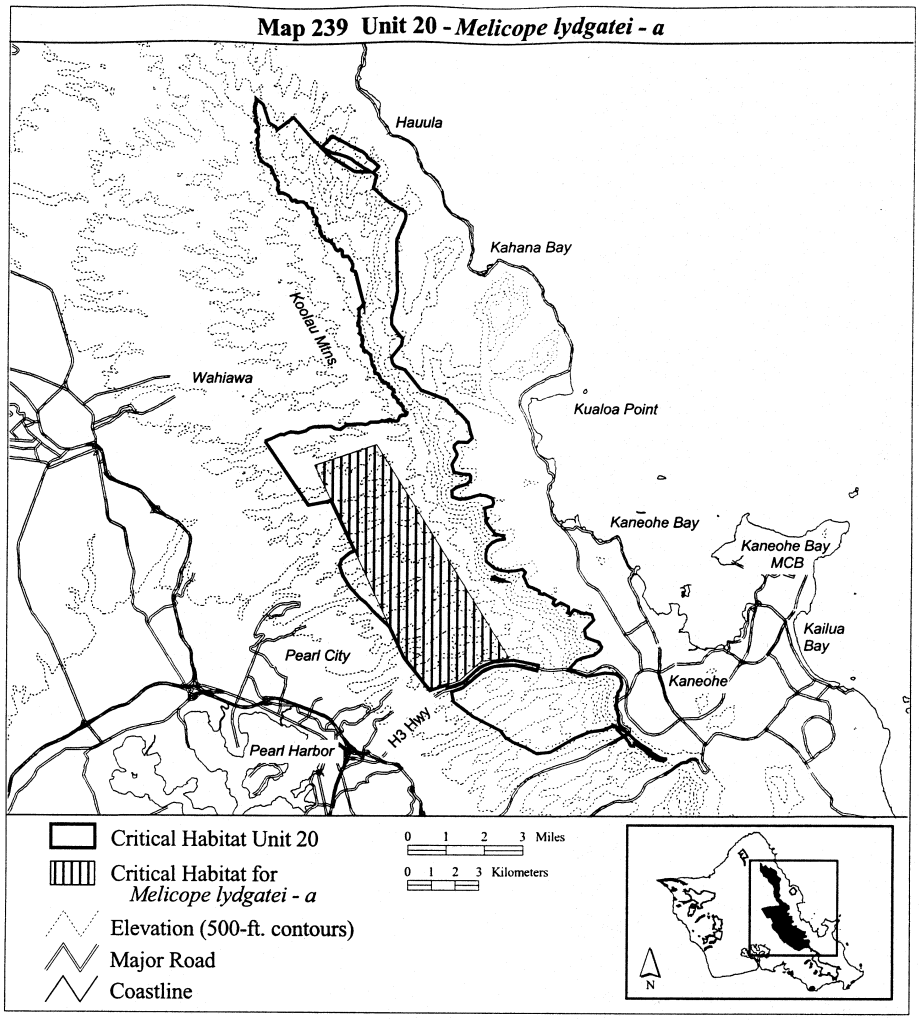
(ii) NOTE: Map 238 follows:



(239) Oahu 20—*Melicope lydgatei*—a (3,499 ha; 8,646 ac)

(i) Unit consists of the following 11 boundary points: Start at 610585, 2374351; 609877, 2375857; 612494, 2376750; 618121, 2367756; 616955, 2367642; 616046, 2366818; 614795, 2366392; 613686, 2367756; 610603, 2374312; 610601, 2374322; 610587, 2374351; return to starting point.

(ii) NOTE: Map 239 follows:



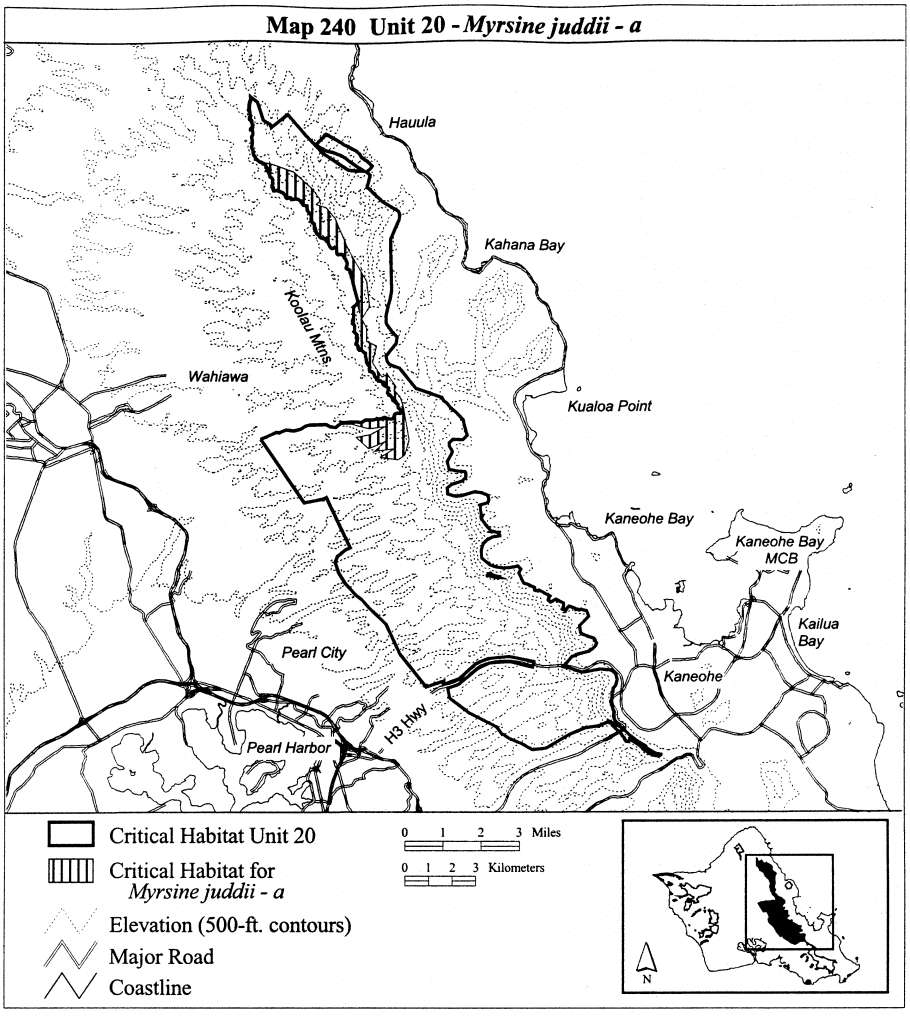
(240) Oahu 20—*Myrsine juddii*—a (949 ha; 2,346 ac)

(i) Unit consists of the following 637 boundary points: Start at 611505, 2377599; 611595, 2377608; 611620, 2377608; 611632, 2377597; 611636, 2377596; 611663, 2377589; 611666, 2377588; 611685, 2377589; 611731, 2377598; 611739, 2377608; 611845, 2377608; 612012, 2377589; 612011, 2377588; 612012, 2377584; 612038, 2377574; 612066, 2377574; 612069, 2377574; 612103, 2377583; 612103, 2377584; 612166, 2377617; 612168, 2377619; 612247, 2377687; 612247, 2377695; 612255, 2377697; 612402, 2377690; 612402, 2377689; 612403, 2377685; 612432, 2377673; 612468, 2377676; 612482, 2377684; 612483, 2377688; 612505, 2377688; 612575, 2377698; 612596, 2377708; 612604, 2377703; 612630, 2377702; 612668, 2377720; 612688, 2377749; 612686, 2377751; 612705, 2377757; 612764, 2377738; 612765, 2377738; 612794, 2377742; 612814, 2377728; 612853, 2377742; 612870, 2377747; 613040, 2377760; 613059, 2377772; 613059, 2377774; 613085, 2377777; 613154, 2377768; 613224, 2377738; 613264, 2377728; 613265, 2377728; 613335, 2377738; 613336,

2377738; 613359, 2377752; 613368, 2377747; 613413, 2377754; 613415, 2377755; 613449, 2377784; 613454, 2377825; 613460, 2377881; 613497, 2377929; 613554, 2377977; 613555, 2377987; 613674, 2377978; 613675, 2377978; 613694, 2377988; 613721, 2377976; 613733, 2377976; 613762, 2378001; 613771, 2378068; 613764, 2378090; 613757, 2378093; 613753, 2378093; 613751, 2378091; 613747, 2378094; 613746, 2378095; 613718, 2378106; 613711, 2378117; 613711, 2378118; 613691, 2378143; 613660, 2378168; 613602, 2378212; 613593, 2378224; 613586, 2378238; 613583, 2378253; 613583, 2378292; 613583, 2378328; 613583, 2378329; 613568, 2378356; 613568, 2378357; 613556, 2378372; 613524, 2378400; 613517, 2378408; 613476, 2378444; 613462, 2378463; 613462, 2378464; 613447, 2378478; 613424, 2378499; 613386, 2378532; 613364, 2378562; 613346, 2378613; 613330, 2378641; 613265, 2378728; 613248, 2378749; 613247, 2378750; 613232, 2378759; 613213, 2378764; 613199, 2378769; 613190, 2378778; 613172, 2378818; 613152, 2378848; 613147, 2378859; 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611830, 2381214; 611838, 2381223; 611854, 2381250; 611854, 2381251; 611856, 2381258; 611855, 2381265; 611855, 2381266; 611849, 2381285; 611848, 2381285; 611848, 2381286; 611828, 2381312; 611784, 2381363; 611765, 2381383; 611734, 2381424; 611733, 2381424; 611730, 2381426; 611737, 2381446; 611745, 2381514; 611746, 2381550; 611748, 2381618; 611748, 2381619; 611739, 2381669; 611736, 2381680; 611736, 2381681; 611727, 2381699; 611727, 2381700; 611673, 2381758; 611666, 2381774; 611666, 2381794; 611670, 2381810; 611702, 2381865; 611712, 2381882; 611712, 2381883; 611712, 2381915; 611712, 2381916; 611710, 2381923; 611687, 2381955; 611687, 2381978; 611695, 2381990; 611702, 2382013; 611702, 2382014; 611700, 2382058; 611694, 2382120; 611695, 2382225; 611701, 2382278; 611701, 2382279; 611699, 2382320; 611695, 2382360; 611693, 2382433; 611692, 2382455; 611698, 2382473; 611744, 2382512; 611805, 2382557; 611831, 2382588; 611844, 2382604; 611844, 2382605; 611850, 2382621; 611874, 2382653; 611896, 2382683; 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(ii) NOTE: Map 240 follows:



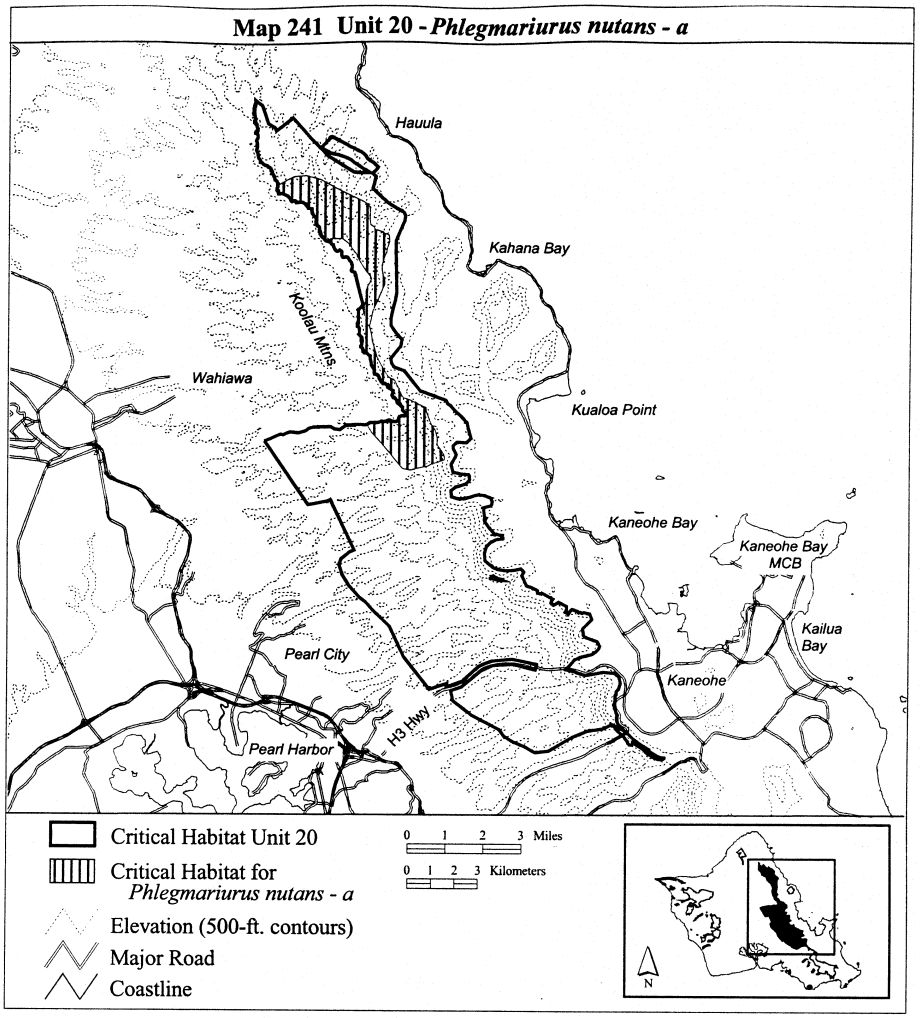
(241) Oahu 20—*Phlegmariurus nutans*—a (1,624 ha; 4,014 ac)

(i) Unit consists of the following 518 boundary points: Start at 612247, 2377695; 612255, 2377697; 612402, 2377690; 612402, 2377689; 612403, 2377685; 612432, 2377673; 612468, 2377676; 612482, 2377684; 612483, 2377688; 612505, 2377688; 612575, 2377698; 612596, 2377708; 612604, 2377703; 612630, 2377702; 612668, 2377720; 612688, 2377749; 612686, 2377751; 612705, 2377757; 612764, 2377738; 612765, 2377738; 612794, 2377742; 612814, 2377728; 612853, 2377742; 612870, 2377747; 613040, 2377760; 613059, 2377772; 613059, 2377774; 613085, 2377777; 613154, 2377768; 613224, 2377738; 613264, 2377728; 613265, 2377728; 613335, 2377738; 613336, 2377738; 613359, 2377752; 613368, 2377747; 613413, 2377754; 613415, 2377755; 613449, 2377784; 613454, 2377825; 613460, 2377881; 613497, 2377929; 613554, 2377977; 613555, 2377987; 613674, 2377978; 613675, 2377978; 613694, 2377988; 613721, 2377976; 613733, 2377976; 613762, 2378001; 613771, 2378068; 613764, 2378090; 613757, 2378093; 613753, 2378093; 613751, 2378091; 613747, 2378094; 613746, 2378095; 613718, 2378106;

613711, 2378117; 613711, 2378118; 613691, 2378143; 613660, 2378168; 613602, 2378212; 613593, 2378224; 613586, 2378238; 613583, 2378253; 613583, 2378292; 613583, 2378328; 613583, 2378329; 613568, 2378356; 613568, 2378357; 613556, 2378372; 613524, 2378400; 613517, 2378408; 613476, 2378444; 613462, 2378463; 613462, 2378464; 613447, 2378478; 613424, 2378499; 613386, 2378532; 613364, 2378562; 613346, 2378613; 613330, 2378641; 613265, 2378728; 613248, 2378749; 613247, 2378750; 613232, 2378759; 613231, 2378759; 613213, 2378764; 613199, 2378769; 613190, 2378778; 613172, 2378818; 613172, 2378819; 613152, 2378848; 613147, 2378859; 613147, 2378860; 613146, 2378860; 613145, 2378860; 613145, 2378861; 613146, 2378862; 613145, 2378862; 613144, 2378873; 613159, 2378951; 613185, 2378998; 613187, 2379004; 613187, 2379005; 613185, 2379019; 613185, 2379020; 613171, 2379040; 613142, 2379072; 613115, 2379100; 613099, 2379113; 613098, 2379113; 613063, 2379127; 612997, 2379166; 612978, 2379188; 612969, 2379215; 612963, 2379226; 612959, 2379247; 612959, 2379248; 612945, 2379276; 612945, 2379277; 612929, 2379297; 612928, 2379298; 612905, 2379314; 612876, 2379327; 612840, 2379337; 612770, 2379350; 612764, 2379355; 612758, 2379364; 612748, 2379389; 612748, 2379390; 612725, 2379410; 612700, 2379424; 612683, 2379441; 612663, 2379470; 612619, 2379529; 612600, 2379563; 612586, 2379618; 612573, 2379650; 612555, 2379679; 612517, 2379716; 612495, 2379729; 612412, 2379753; 612397, 2379761; 612387, 2379798; 612388, 2379851; 612388, 2379852; 612386, 2379928; 612379, 2379961; 612379, 2379962; 612375, 2379970; 612367, 2379981; 612366, 2379981; 612366, 2379982; 612353, 2379991; 612328, 2380018; 612262, 2380145; 612255, 2380163; 612249, 2380199; 612248, 2380233; 612234, 2380304; 612226, 2380334; 612224, 2380337; 612211, 2380367; 612213, 2380397; 612218, 2380419; 612218, 2380420; 612215, 2380452; 612212, 2380464; 612202, 2380506; 612202, 2380507; 612197, 2380516; 612177, 2380539; 612112, 2380593; 612086, 2380625; 612073, 2380644; 612046, 2380669; 612046, 2380670; 612016, 2380686; 611992, 2380690; 611965, 2380687; 611955, 2380689; 611941, 2380693; 611927, 2380702; 611919, 2380710; 611905, 2380743; 611889, 2380825; 611889, 2380826; 611880, 2380839; 611856, 2380862; 611812, 2380892; 611799, 2380905; 611798, 2380918; 611800, 2380925; 611815, 2380943; 611838, 2380960; 611838, 2380961; 611848, 2380980; 611851, 2381022; 611848, 2381067; 611853, 2381081; 611879, 2381118; 611879, 2381119; 611879, 2381131; 611879, 2381132; 611868, 2381149; 611858, 2381155; 611857, 2381155; 611847, 2381160; 611837, 2381167; 611828, 2381178; 611825, 2381193; 611830, 2381214; 611838, 2381223; 611854, 2381250; 611854, 2381251; 611856, 2381258; 611855, 2381265; 611849, 2381285; 611848, 2381286; 611828, 2381312; 611784, 2381363; 611765, 2381383; 611734, 2381424; 611733, 2381424; 611730, 2381426; 611737, 2381446; 611745, 2381514; 611746, 2381550; 611748, 2381618; 611748, 2381619; 611739, 2381669; 611736, 2381680; 611736, 2381681; 611727, 2381699; 611727, 2381700; 611673, 2381758; 611666, 2381774; 611666, 2381794; 611670, 2381810; 611702, 2381865; 611712, 2381882; 611712, 2381883; 611712, 2381915; 611712, 2381916; 611710, 2381923; 611687, 2381955; 611687, 2381978; 611695, 2381990; 611702, 2382013; 611702, 2382014; 611700, 2382058; 611694, 2382120; 611695, 2382225; 611701, 2382278; 611701, 2382279; 611699, 2382320; 611697, 2382339; 611722, 2382329; 611752, 2382479; 611931, 2382659; 612029, 2382853; 612029, 2383033; 612029, 2383265; 612074, 2383438; 612171, 2383602; 612231, 2383760; 612186, 2383909; 611976, 2384164; 611729, 2384584; 611624, 2384741; 611652, 2384737; 611227, 2385310; 611018, 2385490; 610538, 2385497; 610367, 2385372; 610333, 2385392; 610292, 2385406; 610280, 2385413; 610261, 2385429; 610248, 2385449; 610237, 2385473; 610222, 2385512; 610222, 2385513; 610214, 2385522; 610206, 2385531; 610206, 2385532; 610187, 2385540; 610166, 2385544; 610134, 2385558; 610129, 2385561; 610122, 2385580; 610119, 2385604; 610119, 2385605; 610112, 2385620; 610111, 2385621; 610093, 2385637; 610078, 2385652; 610077, 2385659; 610090, 2385687; 610097, 2385698; 610098, 2385699; 610098, 2385700; 610097, 2385705; 610097, 2385706; 610081, 2385734; 610054, 2385762; 610039, 2385790; 610028, 2385816; 610024, 2385839; 610027, 2385873; 610035, 2385901; 610035, 2385902; 610035, 2385943; 610035, 2385944; 610029, 2385956; 610029, 2385957; 610003, 2385991; 609994, 2386004; 609993, 2386004; 609993, 2386005; 609971, 2386017; 609955, 2386025; 609948, 2386031; 609929, 2386085; 609909, 2386112; 609898, 2386121; 609887, 2386134; 609883, 2386146; 609884, 2386168; 609879, 2386204; 609884, 2386223; 609905, 2386254; 609905, 2386255; 609909, 2386278; 609909, 2386279; 609907, 2386291; 609881, 2386354; 609880, 2386355; 609858, 2386384; 609834, 2386404; 609797, 2386443; 609790, 2386450; 609769, 2386468; 609748, 2386495; 609737, 2386524; 609719, 2386644; 609711, 2386719; 609711, 2386720; 609705, 2386737; 609704, 2386737; 609704, 2386738;

609693, 2386745; 609692, 2386745; 609595, 2386759; 609570, 2386766; 609560, 2386772; 609536, 2386797; 609481, 2386863; 609461, 2386894; 609449, 2386918; 609449, 2386919; 609439, 2386933; 609438, 2386934; 609425, 2386943; 609379, 2386966; 609323, 2387005; 609308, 2387012; 609269, 2387020; 609248, 2387021; 609184, 2387014; 609134, 2387001; 609078, 2386982; 609074, 2386984; 609062, 2387000; 609048, 2387031; 609047, 2387032; 609025, 2387051; 608989, 2387068; 608988, 2387068; 608975, 2387068; 608974, 2387068; 608905, 2387055; 608862, 2387042; 608856, 2387043; 608849, 2387049; 608810, 2387121; 608794, 2387150; 608794, 2387151; 608776, 2387175; 608736, 2387223; 608719, 2387246; 608718, 2387246; 608718, 2387247; 608693, 2387265; 608643, 2387281; 608604, 2387303; 608558, 2387325; 608497, 2387362; 608496, 2387362; 608459, 2387369; 608458, 2387369; 608435, 2387371; 608434, 2387371; 608410, 2387366; 608377, 2387354; 608355, 2387351; 608336, 2387351; 608316, 2387358; 608308, 2387366; 608294, 2387395; 608292, 2387413; 608300, 2387459; 608299, 2387471; 608298, 2387472; 608298, 2387473; 608289, 2387479; 608252, 2387489; 608234, 2387501; 608228, 2387506; 608223, 2387520; 608230, 2387572; 608232, 2387576; 608238, 2387590; 608252, 2387607; 608267, 2387627; 608267, 2387628; 608272, 2387642; 608275, 2387670; 608275, 2387671; 608274, 2387677; 608306, 2387729; 608673, 2387954; 608988, 2388096; 609475, 2388141; 610074, 2387984; 610396, 2387812; 610793, 2387602; 611355, 2387302; 611827, 2387093; 612066, 2386950; 612149, 2386845; 612164, 2386741; 612164, 2386613; 612164, 2386441; 612164, 2386276; 612186, 2386082; 612313, 2385992; 612433, 2385827; 612439, 2385780; 612456, 2385849; 612605, 2385782; 612710, 2385759; 612748, 2385700; 612965, 2385610; 612987, 2385340; 612890, 2385010; 612860, 2384823; 612755, 2384613; 612673, 2384329; 612695, 2384044; 612815, 2383685; 612815, 2383497; 612695, 2383318; 612576, 2382996; 612456, 2382726; 612321, 2382426; 612276, 2382209; 612164, 2381767; 612253, 2381453; 612291, 2381153; 612433, 2380719; 612486, 2380501; 612673, 2380134; 612815, 2379940; 612890, 2379775; 612987, 2379618; 613242, 2379498; 613362, 2379296; 613467, 2379071; 613542, 2378876; 613639, 2378749; 613954, 2378644; 613987, 2378588; 613976, 2378636; 614575, 2378337; 614613, 2378157; 614748, 2377790; 614845, 2377580; 614965, 2377423; 615025, 2377228; 615070, 2377034; 615070, 2376854; 615077, 2376741; 615220, 2376562; 615354, 2376352; 615392, 2376150; 615369, 2376105; 615070, 2375992; 614860, 2375933; 614673, 2375835; 614515, 2375820; 614313, 2375775; 614143, 2375726; 614103, 2375700; 613969, 2375655; 613789, 2375678; 613587, 2375738; 613070, 2376389; 612576, 2376966; 612306, 2377266; 612089, 2377580; 612103, 2377583; 612103, 2377584; 612166, 2377617; 612168, 2377619; 612247, 2377687; return to starting point.

(ii) NOTE: Map 241 follows:



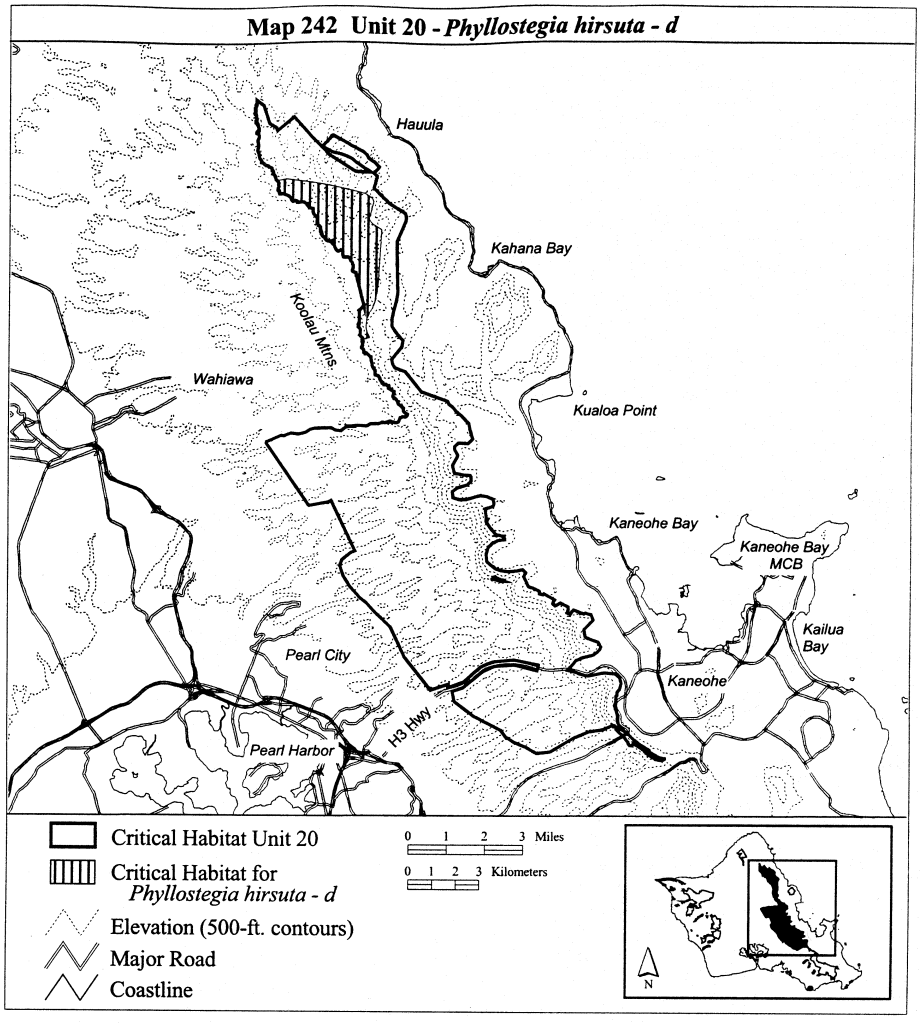
(242) Oahu 20—*Phyllostegia hirsuta*—d (1,005 ha; 2,483 ac)

(i) Unit consists of the following 365 boundary points: Start at 608181, 2387918; 608609, 2387992; 609066, 2387923; 609648, 2387838; 610294, 2387723; 610699, 2387638; 611287, 2387529; 611887, 2387381; 612047, 2387289; 612218, 2387158; 612275, 2387009; 612218, 2386810; 612138, 2386495; 612077, 2386335; 612081, 2386336; 612173, 2386170; 612258, 2386084; 612418, 2385987; 612561, 2385919; 612607, 2385873; 612607, 2385791; 612489, 2383611; 612441, 2383240; 612407, 2383075; 612333, 2382778; 612235, 2382526; 612127, 2382349; 612121, 2382349; 612098, 2382264; 612030, 2382069; 612001, 2381847; 611990, 2381692; 612041, 2381550; 612121, 2381395; 612156, 2381312; 611855, 2381263; 611855, 2381265; 611855, 2381266; 611849, 2381285; 611848, 2381285; 611848, 2381286; 611828, 2381312; 611784, 2381363; 611765, 2381383; 611734, 2381424; 611733, 2381424; 611730, 2381426; 611737, 2381446; 611745, 2381514; 611746, 2381550; 611748, 2381618; 611748, 2381619; 611739, 2381669; 611736, 2381680; 611736, 2381681; 611727,

2381699; 611727, 2381700; 611726, 2381700; 611673, 2381758; 611666, 2381774; 611666, 2381794; 611670, 2381810; 611702, 2381865; 611712, 2381882; 611712, 2381883; 611712, 2381915; 611712, 2381916; 611710, 2381923; 611687, 2381955; 611687, 2381978; 611695, 2381990; 611702, 2382013; 611702, 2382014; 611700, 2382058; 611694, 2382120; 611695, 2382225; 611701, 2382278; 611701, 2382279; 611699, 2382320; 611695, 2382360; 611693, 2382433; 611692, 2382455; 611698, 2382473; 611744, 2382512; 611805, 2382557; 611831, 2382588; 611844, 2382604; 611844, 2382605; 611850, 2382621; 611874, 2382653; 611896, 2382683; 611896, 2382684; 611903, 2382704; 611903, 2382705; 611903, 2382706; 611902, 2382707; 611901, 2382707; 611900, 2382707; 611900, 2382706; 611899, 2382706; 611892, 2382686; 611891, 2382684; 611795, 2383056; 611597, 2383822; 611567, 2383939; 611567, 2383940; 611561, 2383949; 611537, 2384020; 611536, 2384020; 611525, 2384040; 611515, 2384051; 611495, 2384064; 611460, 2384078; 611430, 2384082; 611404, 2384097; 611396, 2384120; 611393, 2384150; 611397, 2384172; 611413, 2384204; 611422, 2384233; 611428, 2384263; 611435, 2384302; 611435, 2384321; 611429, 2384356; 611429, 2384357; 611417, 2384382; 611394, 2384464; 611387, 2384476; 611374, 2384488; 611374, 2384489; 611358, 2384501; 611334, 2384524; 611326, 2384536; 611302, 2384584; 611257, 2384667; 611256, 2384667; 611245, 2384680; 611244, 2384681; 611224, 2384695; 611223, 2384695; 611203, 2384703; 611202, 2384704; 611192, 2384704; 611191, 2384703; 611165, 2384698; 611119, 2384696; 611118, 2384696; 611082, 2384690; 611081, 2384690; 611065, 2384682; 611064, 2384681; 611058, 2384675; 611046, 2384674; 611039, 2384675; 611028, 2384688; 611014, 2384713; 610994, 2384778; 610981, 2384838; 610976, 2384927; 610973, 2384941; 610973, 2384942; 610965, 2384959; 610965, 2384960; 610957, 2384969; 610957, 2384970; 610934, 2384987; 610933, 2384987; 610909, 2384993; 610908, 2384993; 610888, 2384986; 610839, 2384956; 610809, 2384945; 610780, 2384942; 610766, 2384942; 610749, 2384953; 610709, 2384995; 610692, 2385014; 610679, 2385041; 610630, 2385180; 610616, 2385205; 610606, 2385215; 610606, 2385216; 610598, 2385220; 610558, 2385236; 610543, 2385248; 610533, 2385266; 610516, 2385329; 610509, 2385341; 610509, 2385342; 610508, 2385342; 610497, 2385351; 610496, 2385351; 610454, 2385362; 610440, 2385362; 610394, 2385362; 610370, 2385370; 610333, 2385392; 610292, 2385406; 610280, 2385413; 610261, 2385429; 610248, 2385449; 610237, 2385473; 610222, 2385512; 610222, 2385513; 610214, 2385522; 610206, 2385531; 610206, 2385532; 610187, 2385540; 610166, 2385544; 610134, 2385558; 610129, 2385561; 610122, 2385580; 610119, 2385604; 610119, 2385605; 610112, 2385620; 610111, 2385621; 610093, 2385637; 610078, 2385652; 610077, 2385659; 610090, 2385687; 610097, 2385698; 610098, 2385699; 610098, 2385700; 610097, 2385705; 610097, 2385706; 610081, 2385734; 610054, 2385762; 610039, 2385790; 610028, 2385816; 610024, 2385839; 610027, 2385873; 610035, 2385901; 610035, 2385902; 610035, 2385943; 610035, 2385944; 610029, 2385956; 610029, 2385957; 610003, 2385991; 609994, 2386004; 609993, 2386004; 609993, 2386005; 609971, 2386017; 609955, 2386025; 609948, 2386031; 609929, 2386085; 609909, 2386112; 609908, 2386113; 609898, 2386121; 609887, 2386134; 609883, 2386146; 609884, 2386168; 609879, 2386204; 609884, 2386223; 609905, 2386254; 609905, 2386255; 609909, 2386278; 609909, 2386279; 609907, 2386291; 609881, 2386354; 609880, 2386355; 609858, 2386384; 609834, 2386404; 609797, 2386443; 609797, 2386444; 609790, 2386450; 609769, 2386468; 609748, 2386495; 609737, 2386524; 609719, 2386644; 609711, 2386719; 609711, 2386720; 609705, 2386737; 609704, 2386737; 609704, 2386738; 609693, 2386745; 609692, 2386745; 609595, 2386759; 609570, 2386766; 609560, 2386772; 609536, 2386797; 609481, 2386863; 609461, 2386894; 609449, 2386918; 609449, 2386919; 609439, 2386933; 609438, 2386934; 609425, 2386943; 609379, 2386966; 609323, 2387005; 609308, 2387012; 609269, 2387020; 609248, 2387021; 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2387628; 608272, 2387642; 608275, 2387670; 608275, 2387671; 608273, 2387689; 608258, 2387739; 608257, 2387765; 608259, 2387774; 608270, 2387794; 608274, 2387812; 608274, 2387813; 608254, 2387851; 608254, 2387852; 608227, 2387885; 608190, 2387914; return to starting point.

(ii) NOTE: Map 242 follows:



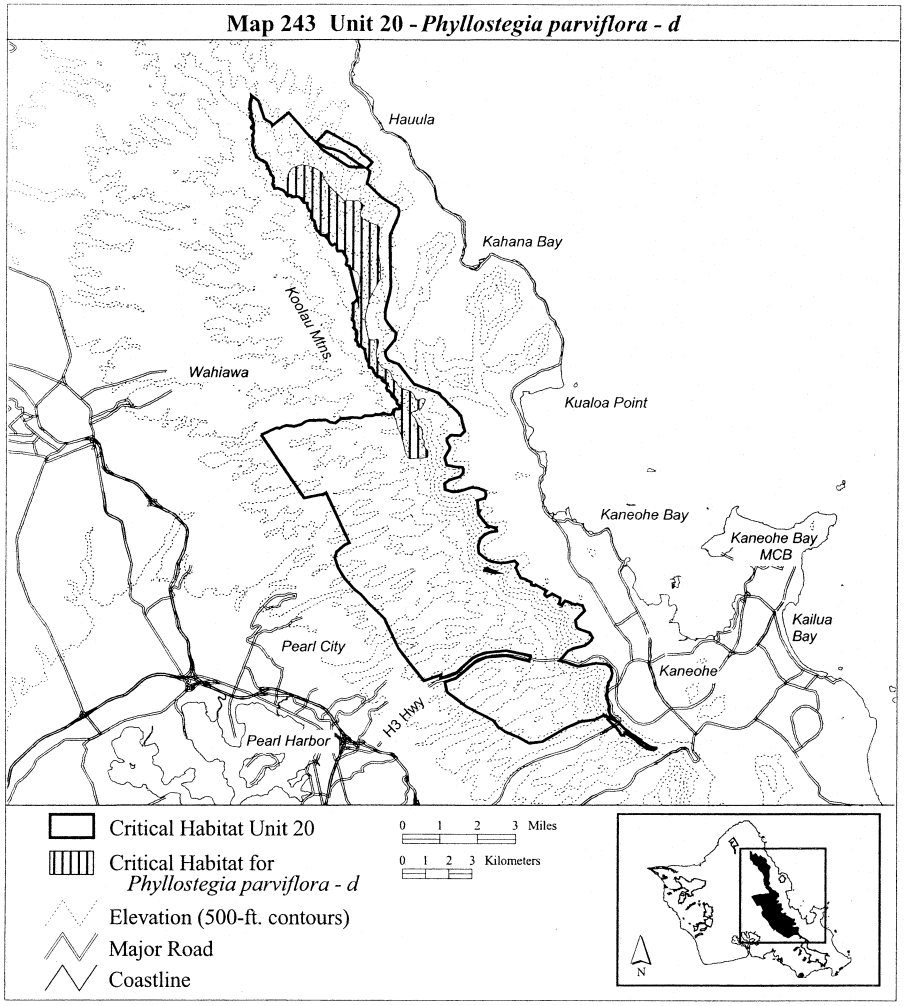
(243) Oahu 20—*Phyllostegia parviflora*—d (1,430 ha; 3,534 ac)

(i) Unit consists of the following 536 boundary points: Start at 613555, 2377987; 613674, 2377978; 613675, 2377978; 613694, 2377988; 613721, 2377976; 613733, 2377976; 613762, 2378001; 613771, 2378068; 613764, 2378090; 613757, 2378093; 613753, 2378093; 613751, 2378091; 613747, 2378094; 613746, 2378095; 613718, 2378106; 613711, 2378117; 613691, 2378143; 613660, 2378168; 613602, 2378212; 613593, 2378224; 613586, 2378238; 613583, 2378253; 613583, 2378292;

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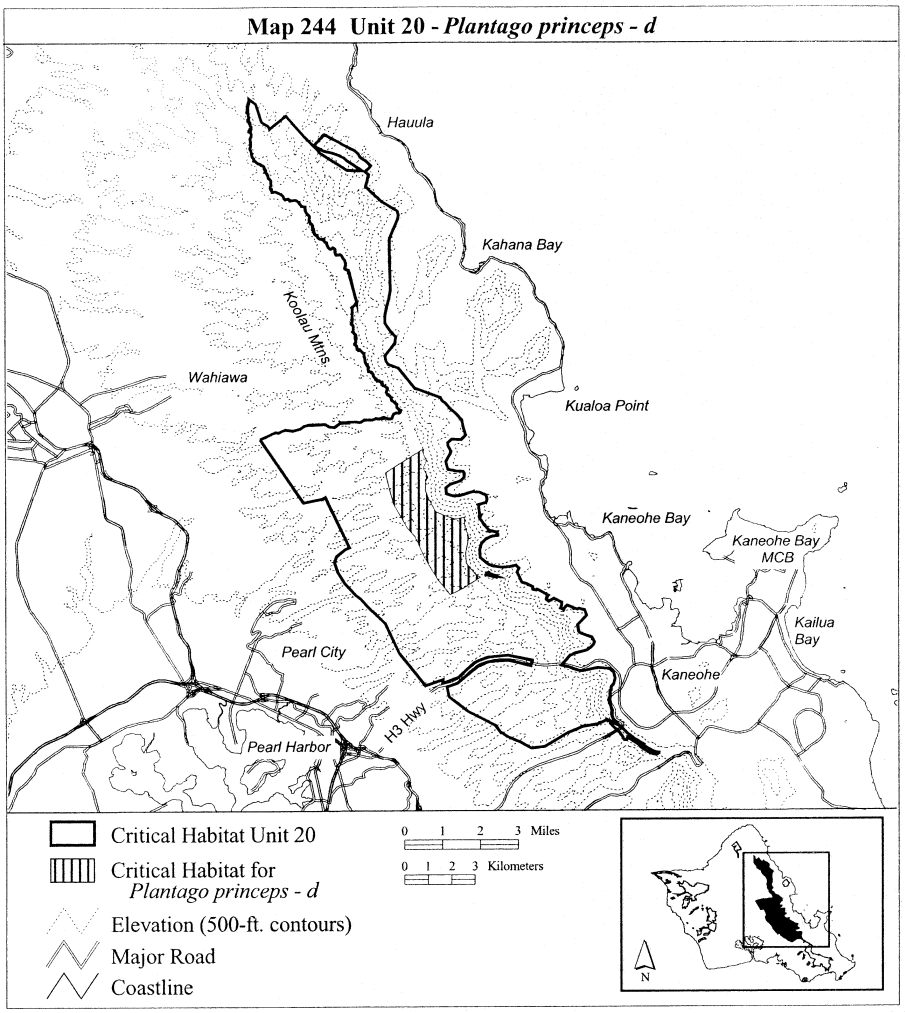
(ii) NOTE: Map 243 follows:



(244) Oahu 20—*Plantago princeps*—d (992 ha; 2,450 ac)

(i) Unit consists of the following 33 boundary points: Start at 615847, 2370245; 615284, 2370964; 614778, 2371801; 614350, 2372717; 614019, 2373116; 613434, 2374148; 613308, 2374586; 613142, 2375258; 613095, 2375422; 614663, 2376418; 614715, 2376331; 614709, 2376258; 614796, 2376057; 614807, 2376056; 614827, 2375891; 614720, 2375618; 614914, 2375248; 614797, 2375024; 614797, 2374683; 614914, 2374352; 615245, 2373788; 615635, 2373603; 616073, 2373466; 616453, 2373525; 616462, 2373252; 616492, 2373077; 616628, 2372765; 616647, 2372609; 616511, 2372025; 616531, 2371607; 616940, 2371110; 617144, 2370985; 616433, 2370522; return to starting point.

(ii) NOTE: Map 244 follows:

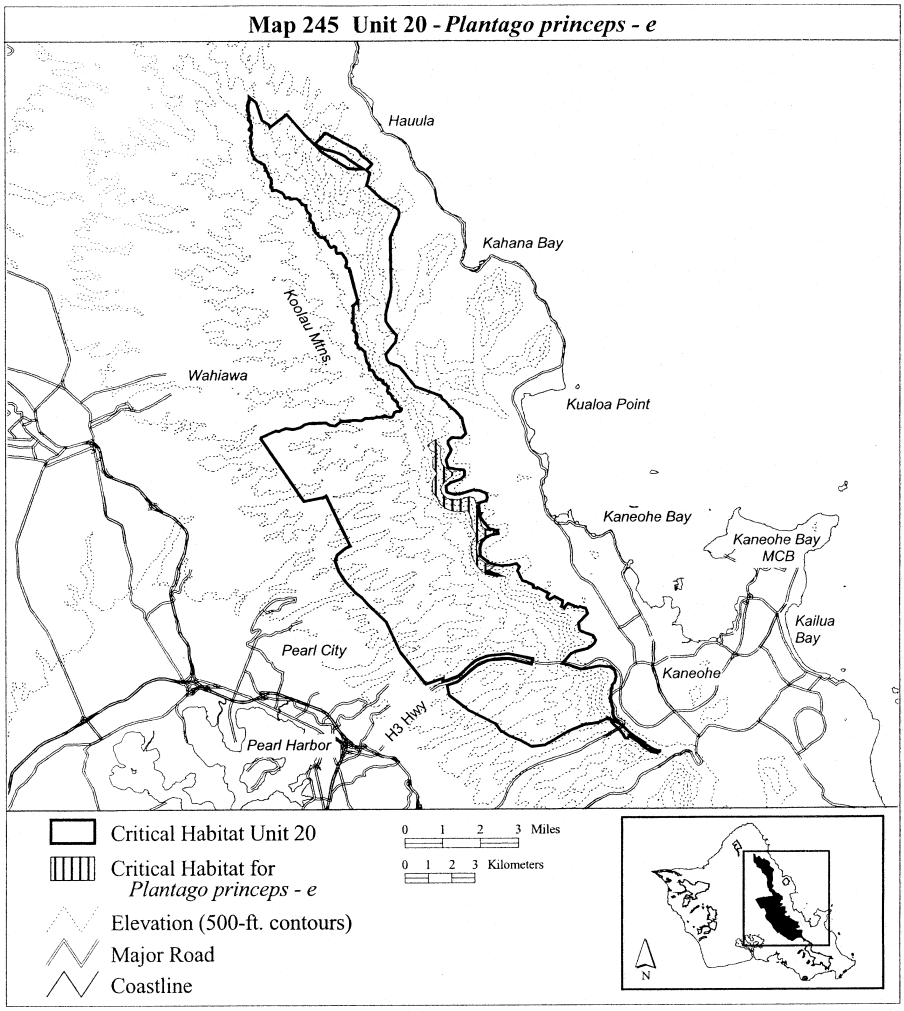


(245) Oahu 20—*Plantago princeps*—e (295 ha; 730 ac)

(i) Unit consists of the following 93 boundary points: Start at 617328, 2371105; 617214, 2371162; 616969, 2371396; 616855, 2371624; 616752, 2371886; 616730, 2372217; 616758, 2372348; 616832, 2372491; 616935, 2372656; 616941, 2372742; 616747, 2373067; 616781, 2373068; 616775, 2373158; 616775, 2373266; 616764, 2373386; 616724, 2373483; 616690, 2373597; 616593, 2373734; 616479, 2373745; 616217, 2373694; 615983, 2373711; 615783, 2373773; 615595, 2373887; 615447, 2373984; 615361, 2374104; 615310, 2374258; 615230, 2374355; 615173, 2374406; 615088, 2374537; 615076, 2374720; 615088, 2374839; 615076, 2374948; 615105, 2375073; 615190, 2375233; 615282, 2375301; 615265, 2375370; 615168, 2375455; 615099, 2375575; 615099, 2375672; 615082, 2375888; 615145, 2376054; 615196, 2376122; 615190, 2376208; 615111, 2376282; 614997, 2376327; 614900, 2376459; 614852, 2376538; 615243, 2376787; 615253, 2376726; 615250, 2376726; 615299, 2376601; 615390, 2376493; 615441, 2376379; 615413, 2376191; 615436, 2375911; 615487,

2375740; 615641, 2375575; 615829, 2375449; 615954, 2375358; 615943, 2375233; 615686, 2375056; 615481, 2374782; 615430, 2374674; 615504, 2374475; 615715, 2374275; 616057, 2374224; 616308, 2374230; 616479, 2374292; 616690, 2374355; 616866, 2374281; 616980, 2373950; 617089, 2373471; 617187, 2373089; 617203, 2373089; 617271, 2373004; 617482, 2372958; 617647, 2372947; 617790, 2372913; 617858, 2372901; 617853, 2372821; 617767, 2372776; 617590, 2372719; 617448, 2372639; 617311, 2372616; 617146, 2372525; 617003, 2372337; 616958, 2372189; 617003, 2371921; 617106, 2371687; 617220, 2371596; 617419, 2371465; 617602, 2371362; 617717, 2371359; return to starting point.

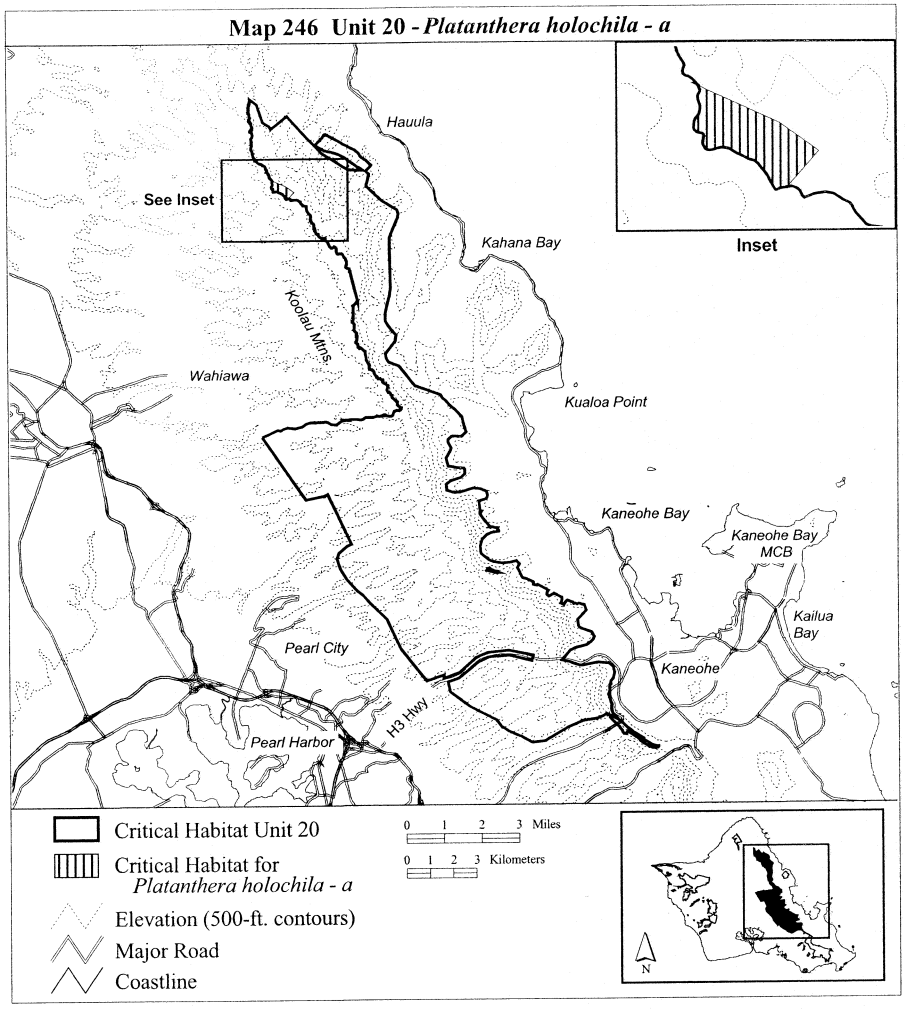
(ii) NOTE: Map 245 follows:



(246) Oahu 20—*Platanthera holochila*—a (35 ha; 86 ac)

(i) Unit consists of the following 64 boundary points: Start at 608249, 2387857; 608319, 2387816; 608894, 2387555; 609199, 2387341; 608944, 2387062; 608905, 2387055; 608862, 2387042; 608856, 2387043; 608849, 2387049; 608810, 2387121; 608794, 2387150; 608794, 2387151; 608776, 2387175; 608736, 2387223; 608719, 2387246; 608718, 2387246; 608718, 2387247; 608693, 2387265; 608692, 2387265; 608643, 2387281; 608604, 2387303; 608603, 2387303; 608558, 2387325; 608497, 2387362; 608496, 2387362; 608459, 2387369; 608458, 2387369; 608435, 2387371; 608434, 2387371; 608410, 2387366; 608377, 2387354; 608355, 2387351; 608336, 2387351; 608316, 2387358; 608308, 2387366; 608294, 2387395; 608292, 2387413; 608300, 2387459; 608299, 2387471; 608298, 2387472; 608298, 2387473; 608289, 2387479; 608252, 2387489; 608234, 2387501; 608228, 2387506; 608223, 2387520; 608230, 2387572; 608232, 2387576; 608238, 2387590; 608252, 2387607; 608267, 2387627; 608267, 2387628; 608272, 2387642; 608275, 2387670; 608275, 2387671; 608273, 2387689; 608258, 2387739; 608257, 2387765; 608259, 2387774; 608270, 2387794; 608274, 2387812; 608274, 2387813; 608254, 2387851; 608254, 2387852; return to starting point.

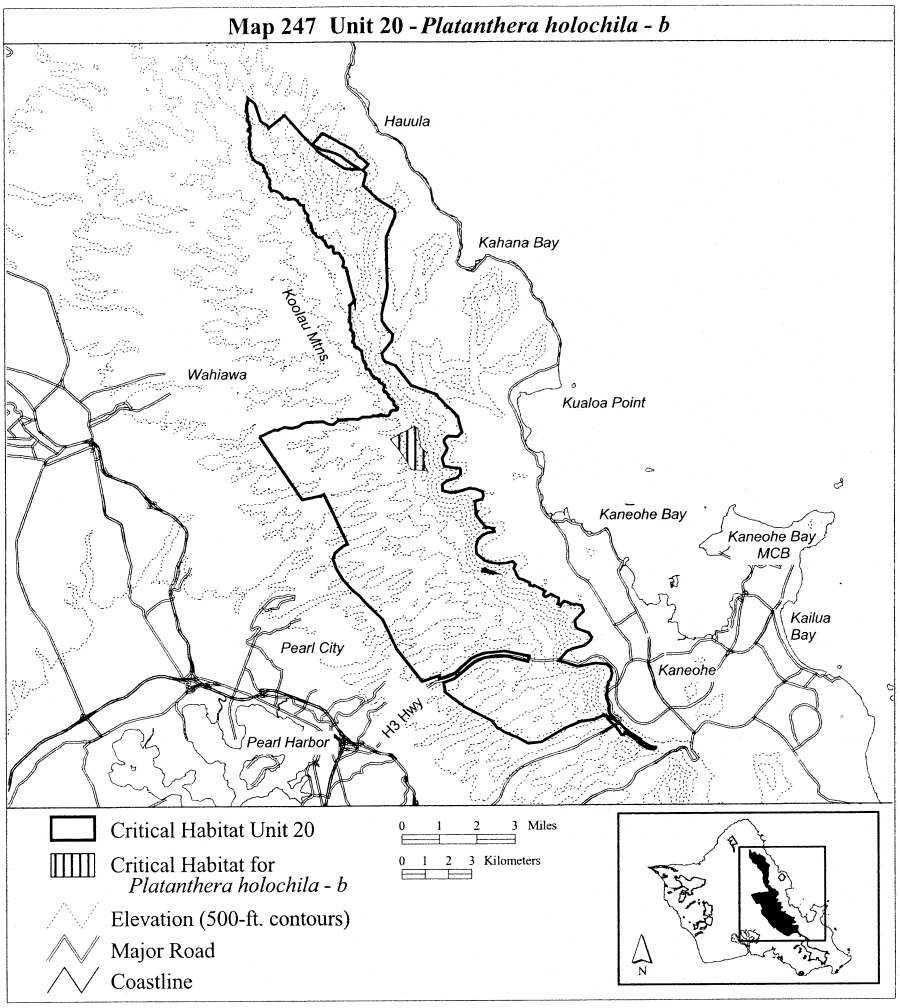
(ii) NOTE: Map 246 follows:



(247) Oahu 20—*Platanthera holochila*—b (165 ha; 407 ac)

(i) Unit consists of the following 15 boundary points: Start at 614492, 2377295; 614625, 2377208; 614686, 2376742; 614770, 2376592; 614740, 2376486; 614814, 2376331; 615019, 2376154; 614881, 2375865; 614931, 2375554; 615003, 2375471; 615053, 2375377; 614929, 2375380; 614354, 2375432; 613918, 2376130; 613435, 2376741; return to starting point.

(ii) NOTE: Map 247 follows:

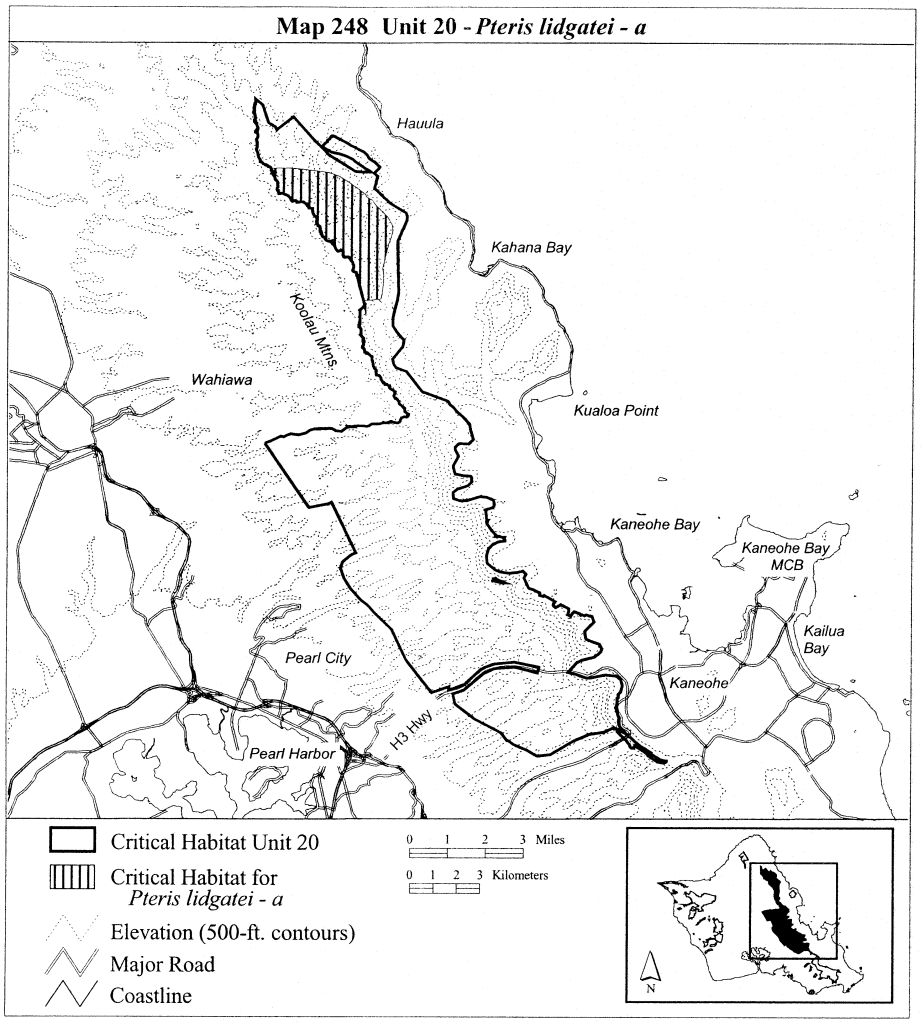


(248) Oahu 20—*Pteris lidgatei*—a (1,232 ha; 3,045 ac)

(i) Unit consists of the following 322 boundary points: Start at 607973, 2388394; 608211, 2388424; 608644, 2388424; 609046, 2388411; 609575, 2388347; 609945, 2388296; 610416, 2388239; 610824, 2388099; 611220, 2387844; 611583, 2387595; 611889, 2387334; 611946, 2387232; 612201, 2387104; 612278, 2386970; 612405, 2386817; 612679, 2386550; 612672, 2386543; 612686, 2386543; 612864, 2386352; 613011, 2386084; 613062, 2385823; 613004, 2385523; 612915, 2385294; 612832, 2384975; 612750, 2384688; 612730, 2384542; 612641, 2384216; 612686, 2383974; 612686, 2383624; 612616, 2383120; 612575, 2382918; 611844, 2382869; 611795, 2383056; 611597, 2383822; 611567, 2383939; 611567, 2383940; 611561, 2383949; 611537, 2384020; 611536, 2384020; 611525, 2384040; 611515, 2384051; 611495, 2384064; 611460, 2384078; 611430, 2384082; 611404, 2384097; 611396, 2384120; 611393, 2384150; 611397, 2384172; 611413, 2384204; 611422, 2384233; 611428, 2384263; 611435, 2384302; 611435, 2384321; 611429, 2384356; 611429, 2384357; 611417, 2384382; 611394, 2384464; 611387, 2384476;

611374, 2384488; 611374, 2384489; 611358, 2384501; 611334, 2384524; 611326, 2384536; 611302, 2384584; 611257, 2384667; 611256, 2384667; 611245, 2384680; 611244, 2384681; 611224, 2384695; 611223, 2384695; 611203, 2384703; 611202, 2384704; 611192, 2384704; 611191, 2384703; 611165, 2384698; 611119, 2384696; 611118, 2384696; 611082, 2384690; 611081, 2384690; 611065, 2384682; 611064, 2384681; 611058, 2384675; 611046, 2384674; 611039, 2384675; 611028, 2384688; 611014, 2384713; 610994, 2384778; 610981, 2384838; 610976, 2384927; 610973, 2384941; 610973, 2384942; 610965, 2384959; 610965, 2384960; 610957, 2384969; 610957, 2384970; 610934, 2384987; 610933, 2384987; 610909, 2384993; 610908, 2384993; 610888, 2384986; 610839, 2384956; 610809, 2384945; 610780, 2384942; 610766, 2384942; 610749, 2384953; 610709, 2384995; 610692, 2385014; 610679, 2385041; 610630, 2385180; 610616, 2385205; 610606, 2385215; 610606, 2385216; 610598, 2385220; 610558, 2385236; 610543, 2385248; 610533, 2385266; 610516, 2385329; 610509, 2385341; 610509, 2385342; 610508, 2385342; 610497, 2385351; 610496, 2385351; 610454, 2385362; 610440, 2385362; 610394, 2385362; 610370, 2385370; 610333, 2385392; 610292, 2385406; 610280, 2385413; 610261, 2385429; 610248, 2385449; 610237, 2385473; 610222, 2385512; 610222, 2385513; 610214, 2385522; 610206, 2385531; 610206, 2385532; 610187, 2385540; 610166, 2385544; 610134, 2385558; 610129, 2385561; 610122, 2385580; 610119, 2385604; 610119, 2385605; 610112, 2385620; 610111, 2385621; 610093, 2385637; 610078, 2385652; 610077, 2385659; 610090, 2385687; 610097, 2385698; 610098, 2385699; 610098, 2385700; 610097, 2385705; 610097, 2385706; 610081, 2385734; 610054, 2385762; 610039, 2385790; 610028, 2385816; 610024, 2385839; 610027, 2385873; 610035, 2385901; 610035, 2385902; 610035, 2385943; 610035, 2385944; 610029, 2385956; 610029, 2385957; 610003, 2385991; 609994, 2386004; 609993, 2386004; 609993, 2386005; 609971, 2386017; 609955, 2386025; 609948, 2386031; 609929, 2386085; 609909, 2386112; 609908, 2386113; 609898, 2386121; 609887, 2386134; 609883, 2386146; 609884, 2386168; 609879, 2386204; 609884, 2386223; 609905, 2386254; 609905, 2386255; 609909, 2386278; 609909, 2386279; 609907, 2386291; 609881, 2386354; 609880, 2386355; 609858, 2386384; 609834, 2386404; 609797, 2386443; 609797, 2386444; 609790, 2386450; 609769, 2386468; 609748, 2386495; 609737, 2386524; 609719, 2386644; 609711, 2386719; 609711, 2386720; 609705, 2386737; 609704, 2386737; 609704, 2386738; 609693, 2386745; 609692, 2386745; 609595, 2386759; 609570, 2386766; 609560, 2386772; 609536, 2386797; 609481, 2386863; 609461, 2386894; 609449, 2386918; 609449, 2386919; 609439, 2386933; 609438, 2386934; 609425, 2386943; 609379, 2386966; 609323, 2387005; 609308, 2387012; 609269, 2387020; 609248, 2387021; 609184, 2387014; 609134, 2387001; 609078, 2386982; 609074, 2386984; 609062, 2387000; 609048, 2387031; 609047, 2387032; 609025, 2387051; 609024, 2387051; 608989, 2387068; 608988, 2387068; 608975, 2387068; 608974, 2387068; 608905, 2387055; 608862, 2387042; 608856, 2387043; 608849, 2387049; 608810, 2387121; 608794, 2387150; 608794, 2387151; 608776, 2387175; 608736, 2387223; 608719, 2387246; 608718, 2387246; 608718, 2387247; 608693, 2387265; 608692, 2387265; 608643, 2387281; 608604, 2387303; 608558, 2387325; 608497, 2387362; 608496, 2387362; 608459, 2387369; 608458, 2387369; 608435, 2387371; 608434, 2387371; 608410, 2387366; 608377, 2387354; 608355, 2387351; 608336, 2387351; 608316, 2387358; 608308, 2387366; 608294, 2387395; 608292, 2387413; 608300, 2387459; 608299, 2387471; 608298, 2387472; 608298, 2387473; 608289, 2387479; 608252, 2387489; 608234, 2387501; 608228, 2387506; 608223, 2387520; 608230, 2387572; 608232, 2387576; 608238, 2387590; 608252, 2387607; 608267, 2387627; 608267, 2387628; 608272, 2387642; 608275, 2387670; 608275, 2387671; 608273, 2387689; 608258, 2387739; 608257, 2387765; 608259, 2387774; 608270, 2387794; 608274, 2387812; 608274, 2387813; 608254, 2387851; 608254, 2387852; 608227, 2387885; 608190, 2387914; 608165, 2387924; 608146, 2387938; 608143, 2387944; 608141, 2387956; 608156, 2388000; 608156, 2388001; 608156, 2388002; 608152, 2388015; 608129, 2388052; 608116, 2388066; 608100, 2388105; 608092, 2388136; 608092, 2388137; 608082, 2388155; 608034, 2388210; 608029, 2388227; 608037, 2388262; 608037, 2388263; 608034, 2388274; 608017, 2388312; 608011, 2388328; 608011, 2388329; 607997, 2388340; 607987, 2388344; 607980, 2388349; 607975, 2388357; 607973, 2388367; return to starting point.

(ii) NOTE: Map 248 follows:

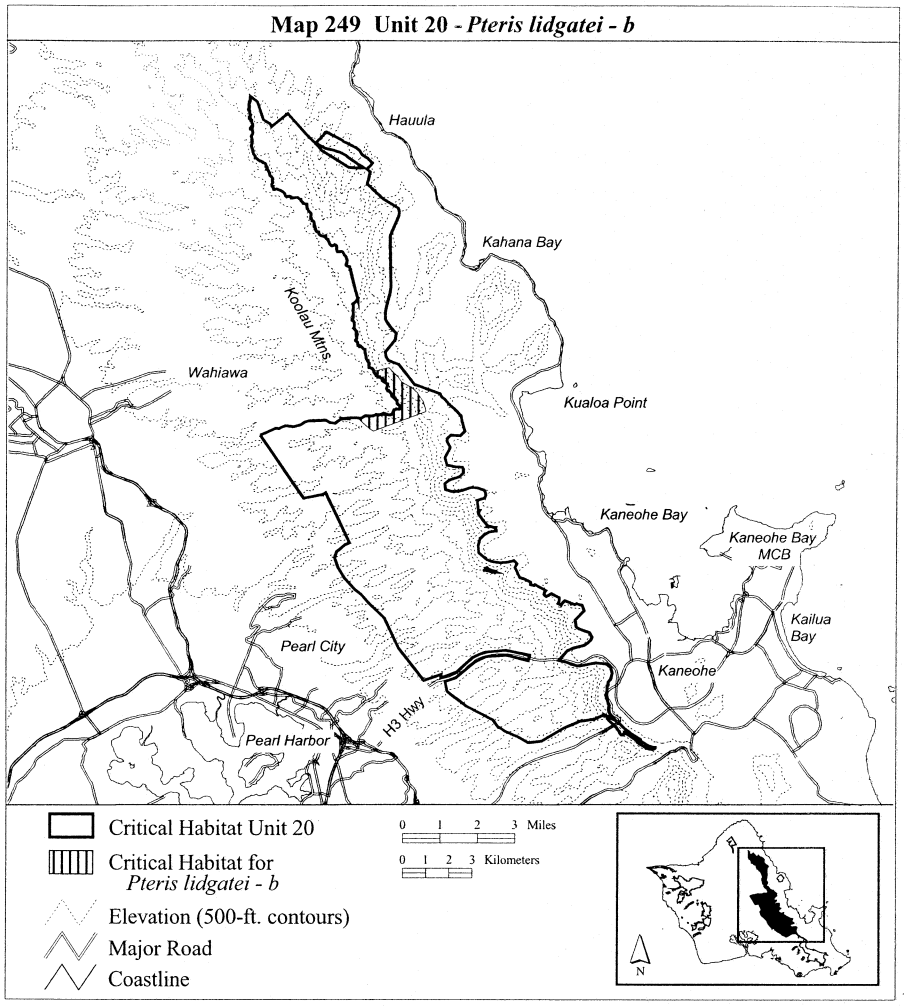


(249) Oahu 20—*Pteris lidgatei*—b (288 ha; 711 ac)

(i) Unit consists of the following 167 boundary points: Start at 612247, 2377695; 612255, 2377697; 612402, 2377690; 612402, 2377689; 612403, 2377685; 612432, 2377673; 612468, 2377676; 612482, 2377684; 612483, 2377688; 612505, 2377688; 612575, 2377698; 612576, 2377698; 612596, 2377708; 612604, 2377703; 612630, 2377702; 612668, 2377720; 612688, 2377749; 612686, 2377751; 612705, 2377757; 612764, 2377738; 612765, 2377738; 612794, 2377742; 612814, 2377728; 612853, 2377742; 612870, 2377747; 613040, 2377760; 613059, 2377772; 613059, 2377774; 613085, 2377777; 613154, 2377768; 613224, 2377738; 613264, 2377728; 613265, 2377728; 613335, 2377738; 613336, 2377738; 613359, 2377752; 613368, 2377747; 613413, 2377754; 613415, 2377755; 613449, 2377784; 613454, 2377825; 613460, 2377881; 613497, 2377929; 613554, 2377977; 613555, 2377987; 613674, 2377978; 613675, 2377978; 613694, 2377988; 613721, 2377976; 613733, 2377976; 613762, 2378001; 613771, 2378068; 613764, 2378090; 613757, 2378093; 613753, 2378093; 613751,

2378091; 613747, 2378094; 613746, 2378095; 613718, 2378106; 613711, 2378117; 613711, 2378118; 613691, 2378143; 613660, 2378168; 613602, 2378212; 613593, 2378224; 613586, 2378238; 613583, 2378253; 613583, 2378292; 613583, 2378328; 613583, 2378329; 613568, 2378356; 613568, 2378357; 613556, 2378372; 613524, 2378400; 613517, 2378408; 613476, 2378444; 613462, 2378463; 613462, 2378464; 613447, 2378478; 613424, 2378499; 613386, 2378532; 613364, 2378562; 613346, 2378613; 613330, 2378641; 613265, 2378728; 613248, 2378749; 613247, 2378750; 613232, 2378759; 613231, 2378759; 613213, 2378764; 613199, 2378769; 613190, 2378778; 613172, 2378818; 613172, 2378819; 613152, 2378848; 613147, 2378859; 613147, 2378860; 613146, 2378860; 613145, 2378860; 613145, 2378861; 613146, 2378862; 613145, 2378862; 613144, 2378873; 613159, 2378951; 613185, 2378998; 613187, 2379004; 613187, 2379005; 613185, 2379019; 613185, 2379020; 613171, 2379040; 613142, 2379072; 613115, 2379100; 613099, 2379113; 613098, 2379113; 613063, 2379127; 612997, 2379166; 612978, 2379188; 612969, 2379215; 612963, 2379226; 612959, 2379247; 612959, 2379248; 612945, 2379276; 612945, 2379277; 612929, 2379297; 612928, 2379298; 612905, 2379314; 612876, 2379327; 612840, 2379337; 612770, 2379350; 612764, 2379355; 612758, 2379364; 612748, 2379389; 612748, 2379390; 612725, 2379410; 612700, 2379424; 612683, 2379441; 612663, 2379470; 612619, 2379529; 612600, 2379563; 612591, 2379598; 613252, 2379742; 613432, 2379563; 613629, 2379372; 613776, 2379155; 613980, 2379040; 614267, 2378881; 614452, 2378702; 614738, 2378301; 614721, 2378277; 614809, 2378014; 614830, 2377880; 612590, 2377032; 612412, 2377172; 611997, 2377529; 611892, 2377602; 612012, 2377589; 612011, 2377588; 612012, 2377584; 612038, 2377574; 612066, 2377574; 612069, 2377574; 612103, 2377583; 612103, 2377584; 612166, 2377617; 612168, 2377619; 612169, 2377619; 612247, 2377687; return to starting point.

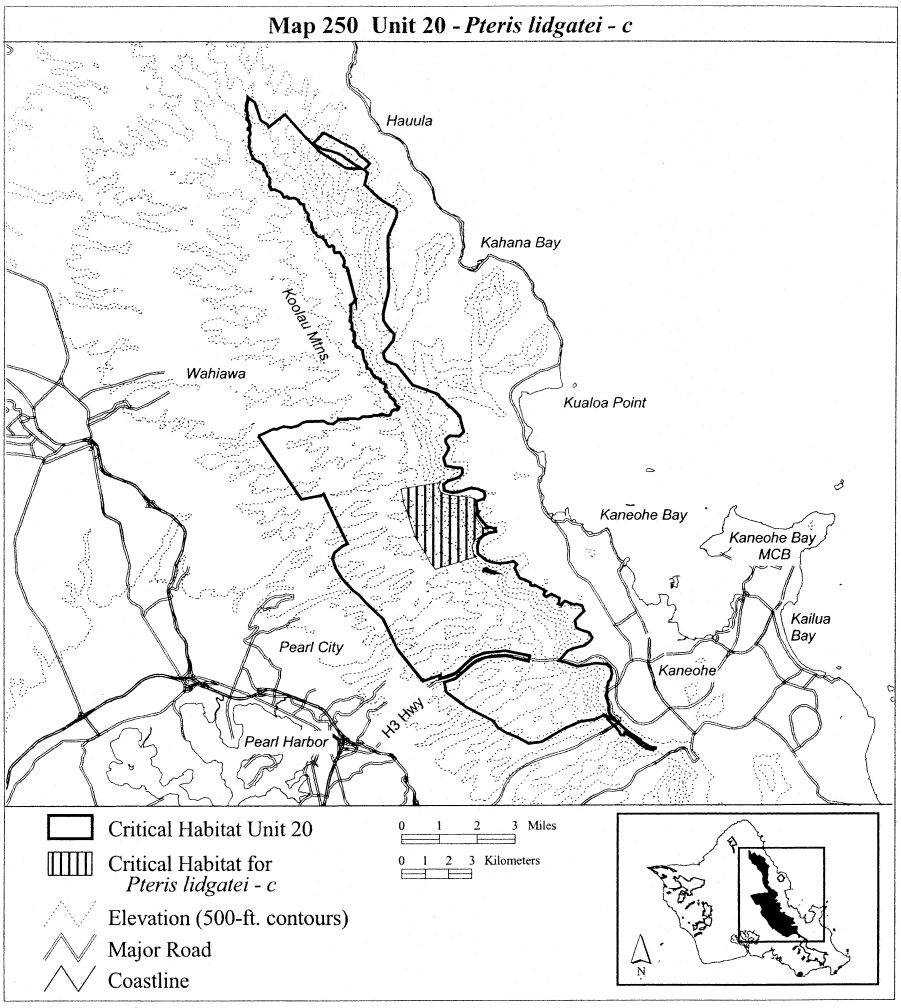
(ii) NOTE: Map 249 follows:



(250) Oahu 20—*Pteris lidgatei*—c (844 ha; 2,085 ac)

(i) Unit consists of the following 33 boundary points: Start at 615336, 2371138; 615108, 2371435; 614942, 2371722; 614713, 2372117; 614483, 2372506; 614006, 2373883; 613993, 2373883; 613891, 2374444; 613858, 2374602; 615567, 2374877; 615503, 2374814; 615452, 2374661; 615542, 2374482; 615777, 2374348; 616185, 2374285; 616370, 2374285; 616753, 2374253; 617008, 2374183; 617072, 2374055; 616989, 2373883; 616977, 2373883; 616995, 2373628; 617065, 2373341; 617205, 2373144; 617346, 2372959; 617620, 2372755; 617409, 2372697; 617199, 2372544; 616982, 2372353; 616880, 2372105; 616931, 2371837; 617072, 2371696; 615352, 2371166; return to starting point.

(ii) NOTE: Map 250 follows:



(251) Oahu 20—*Sanicula purpurea*—a (704 ha; 1,739 ac)

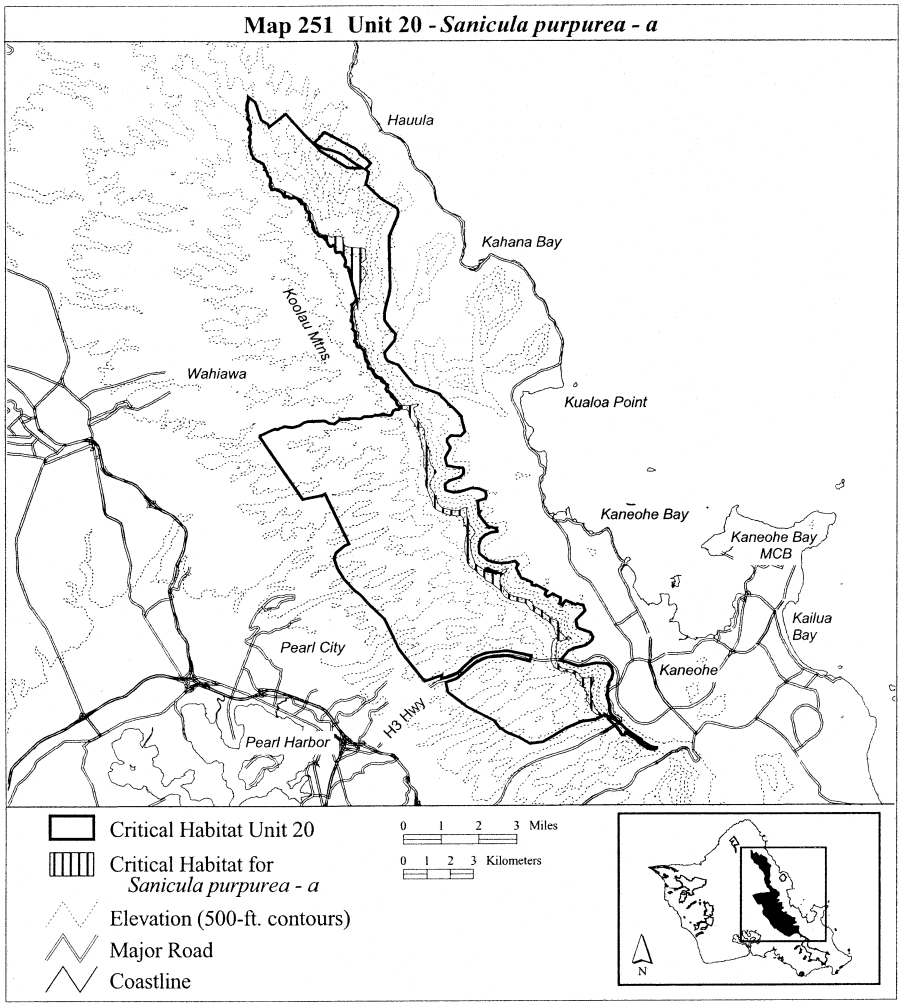
(i) Unit consists of the following 940 boundary points: Start at 613751, 2378091; 613747, 2378094; 613746, 2378095; 613718, 2378106; 613711, 2378117; 613691, 2378143; 613660, 2378168; 613602, 2378212; 613593, 2378224; 613586, 2378238; 613583, 2378253; 613583, 2378292; 613583, 2378328; 613583, 2378329; 613568, 2378356; 613568, 2378357; 613556, 2378372; 613524, 2378400; 613517, 2378408; 613476, 2378444; 613462, 2378463; 613462, 2378464; 613447, 2378478; 613424, 2378499; 613386, 2378532; 613364, 2378562; 613346, 2378613; 613330, 2378641; 613265, 2378728; 613248, 2378749; 613247, 2378750; 613232, 2378759; 613213, 2378764; 613199, 2378769; 613190, 2378778; 613172, 2378818; 613152, 2378848; 613147, 2378859; 613147, 2378860; 613146, 2378860; 613145, 2378860; 613145, 2378861; 613146, 2378862; 613144, 2378873; 613159, 2378951; 613185, 2378998; 613187, 2379004; 613187, 2379005; 613185, 2379019; 613185, 2379020; 613171, 2379040; 613142, 2379072; 613115, 2379100; 613099, 2379113; 613098, 2379113; 613063, 2379127; 612997, 2379166; 612978, 2379188;

612969, 2379215; 612963, 2379226; 612959, 2379247; 612945, 2379276; 612945, 2379277; 612929, 2379297; 612905, 2379314; 612876, 2379327; 612840, 2379337; 612770, 2379350; 612764, 2379355; 612758, 2379364; 612748, 2379389; 612748, 2379390; 612725, 2379410; 612700, 2379424; 612683, 2379441; 612663, 2379470; 612619, 2379529; 612600, 2379563; 612586, 2379618; 612573, 2379650; 612555, 2379679; 612517, 2379716; 612495, 2379729; 612412, 2379753; 612397, 2379761; 612387, 2379798; 612388, 2379851; 612386, 2379928; 612379, 2379961; 612379, 2379962; 612375, 2379970; 612367, 2379981; 612366, 2379982; 612353, 2379991; 612328, 2380018; 612262, 2380145; 612255, 2380163; 612249, 2380199; 612248, 2380233; 612234, 2380304; 612226, 2380334; 612224, 2380337; 612211, 2380367; 612213, 2380397; 612218, 2380419; 612218, 2380420; 612215, 2380452; 612212, 2380464; 612202, 2380506; 612202, 2380507; 612197, 2380516; 612177, 2380539; 612112, 2380593; 612086, 2380625; 612073, 2380644; 612046, 2380669; 612046, 2380670; 612016, 2380686; 611992, 2380690; 611965, 2380687; 611955, 2380689; 611941, 2380693; 611927, 2380702; 611919, 2380710; 611905, 2380743; 611889, 2380825; 611889, 2380826; 611880, 2380839; 611856, 2380862; 611812, 2380892; 611799, 2380905; 611798, 2380918; 611800, 2380925; 611815, 2380943; 611838, 2380960; 611838, 2380961; 611848, 2380980; 611851, 2381022; 611848, 2381067; 611853, 2381081; 611879, 2381118; 611879, 2381119; 611879, 2381131; 611868, 2381149; 611858, 2381155; 611857, 2381155; 611847, 2381160; 611837, 2381167; 611828, 2381178; 611825, 2381193; 611830, 2381214; 611838, 2381223; 611854, 2381250; 611856, 2381258; 611855, 2381265; 611855, 2381266; 611849, 2381285; 611848, 2381286; 611828, 2381312; 611784, 2381363; 611765, 2381383; 611734, 2381424; 611733, 2381424; 611730, 2381426; 611737, 2381446; 611745, 2381514; 611746, 2381550; 611748, 2381618; 611748, 2381619; 611739, 2381669; 611736, 2381680; 611736, 2381681; 611727, 2381699; 611727, 2381700; 611673, 2381758; 611666, 2381774; 611666, 2381794; 611670, 2381810; 611702, 2381865; 611712, 2381882; 611712, 2381883; 611712, 2381915; 611712, 2381916; 611710, 2381923; 611687, 2381955; 611687, 2381978; 611695, 2381990; 611702, 2382013; 611702, 2382014; 611700, 2382058; 611694, 2382120; 611695, 2382225; 611701, 2382278; 611699, 2382320; 611695, 2382360; 611693, 2382433; 611692, 2382455; 611698, 2382473; 611744, 2382512; 611805, 2382557; 611831, 2382588; 611844, 2382604; 611844, 2382605; 611850, 2382621; 611874, 2382653; 611896, 2382683; 611903, 2382704; 611903, 2382705; 611903, 2382706; 611902, 2382707; 611901, 2382707; 611900, 2382707; 611900, 2382706; 611899, 2382706; 611892, 2382686; 611891, 2382684; 611795, 2383056; 611597, 2383822; 611567, 2383939; 611567, 2383940; 611561, 2383949; 611537, 2384020; 611536, 2384020; 611525, 2384040; 611515, 2384051; 611495, 2384064; 611460, 2384078; 611430, 2384082; 611404, 2384097; 611396, 2384120; 611393, 2384150; 611397, 2384172; 611413, 2384204; 611422, 2384233; 611428, 2384263; 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614762, 2377179; 614786, 2377016; 614777, 2376918; 614789, 2376917; 614795, 2376797; 614801, 2376710; 614855, 2376608; 614861, 2376523; 614891, 2376418; 614957, 2376325; 614993, 2376229; 615011, 2376126; 615026, 2375991; 615014, 2375943; 614984, 2375886; 614993, 2375826; 615026, 2375754; 615053, 2375645; 615129, 2375510; 615225, 2375396; 615306, 2375294; 615201, 2375170; 615122, 2375071; 615047, 2374942; 615023, 2374870; 615011, 2374806; 615017, 2374737; 615053, 2374644; 615104, 2374548; 615180, 2374437; 615288, 2374256; 615303, 2374175; 615339, 2374049; 615432, 2373892; 615537, 2373796; 615700, 2373739; 615931, 2373697; 616082, 2373673; 616220, 2373682; 616319, 2373706; 616400, 2373736; 616473, 2373778; 616563, 2373799; 616581, 2373775; 616593, 2373700; 616593, 2373646; 616578, 2373562; 616593, 2373486; 616617, 2373366; 616656, 2373300; 616680, 2373234; 616680, 2373162; 616713, 2373108; 616722, 2373041; 616764, 2372999; 616767, 2372999; 616839, 2372933; 616891, 2372864; 616939, 2372801;

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(ii) NOTE: Map 251 follows:

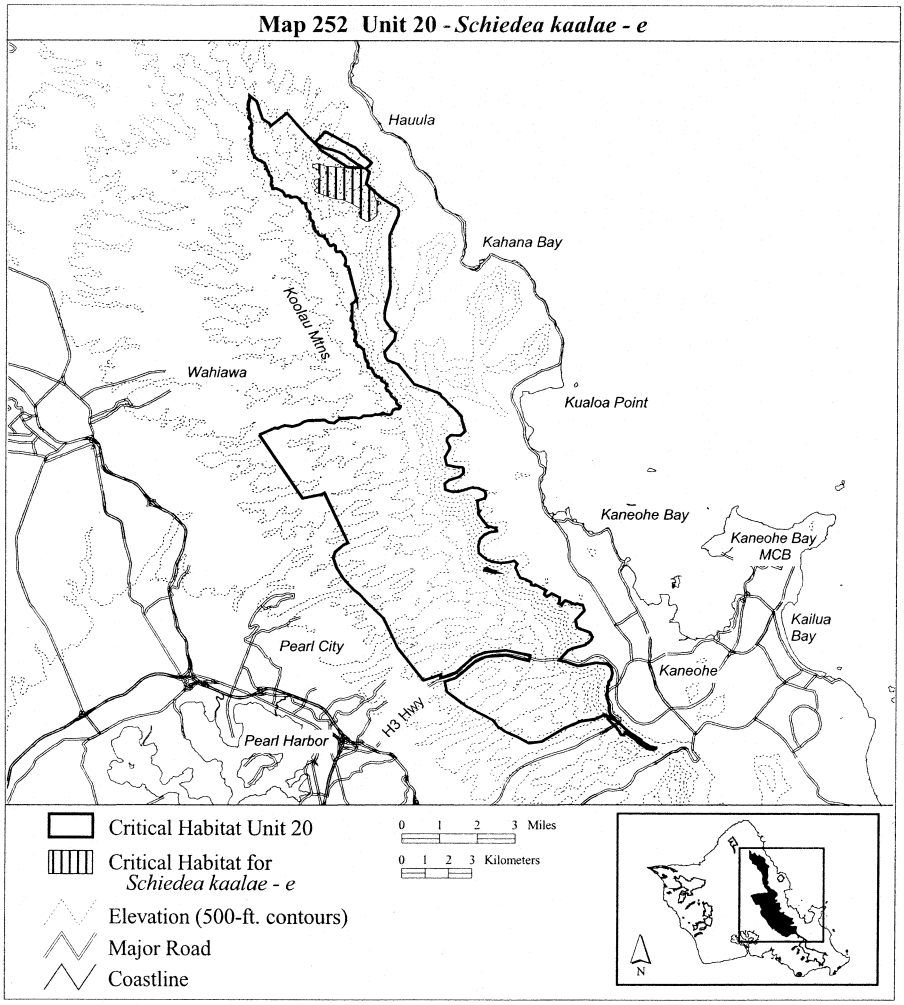


(252) Oahu 20—*Schiedea kaalae*—e (378 ha; 934 ac)

(i) Unit consists of the following 100 boundary points: Start at 610262, 2387162; 610252, 2387163; 610196, 2387181; 610159, 2387216; 610133, 2387242; 610063, 2387266; 610077, 2387301; 610149, 2387343; 610210, 2387403; 610168, 2387460; 610107, 2387518; 610058, 2387565; 610063, 2387719; 610159, 2387749; 610222, 2387768; 610273, 2387791; 610320, 2387824; 610336, 2387848; 610325, 2387892; 610299, 2387953; 610259, 2388006; 610259, 2388044; 610266, 2388112; 610252, 2388147; 610222, 2388182; 610178, 2388226; 610114, 2388238; 610000, 2388289; 609981, 2388301; 609999, 2388345; 610027, 2388381; 610054, 2388383; 610098, 2388387; 610124, 2388392; 610140, 2388423; 610168, 2388432; 610222, 2388437; 610278, 2388437; 610318, 2388437; 610348, 2388390; 610402, 2388369; 610446, 2388369; 610486, 2388355;

610504, 2388319; 610504, 2388322; 611095, 2388275; 611810, 2388272; 612073, 2388265; 612212, 2388258; 612267, 2388207; 612400, 2388103; 612399, 2388096; 612360, 2387934; 612330, 2387792; 612282, 2387600; 612285, 2387571; 612284, 2387567; 612284, 2387566; 612285, 2387565; 612286, 2387564; 612293, 2387485; 612424, 2387377; 612559, 2387286; 612603, 2387148; 612610, 2387155; 612620, 2387131; 612633, 2387027; 612677, 2386915; 612714, 2386885; 612785, 2386861; 612876, 2386831; 612910, 2386794; 612873, 2386740; 612789, 2386649; 612731, 2386564; 612731, 2386446; 612731, 2386338; 612731, 2386230; 612637, 2386146; 612542, 2386065; 612407, 2385981; 612313, 2385977; 612235, 2386008; 612127, 2386072; 612013, 2386132; 611965, 2386227; 611972, 2386311; 612002, 2386372; 612063, 2386480; 612009, 2386551; 612014, 2386556; 611965, 2386574; 611658, 2386733; 611486, 2386821; 611257, 2386902; 611071, 2386929; 610859, 2386949; 610680, 2387010; 610558, 2387054; 610437, 2387114; return to starting point.

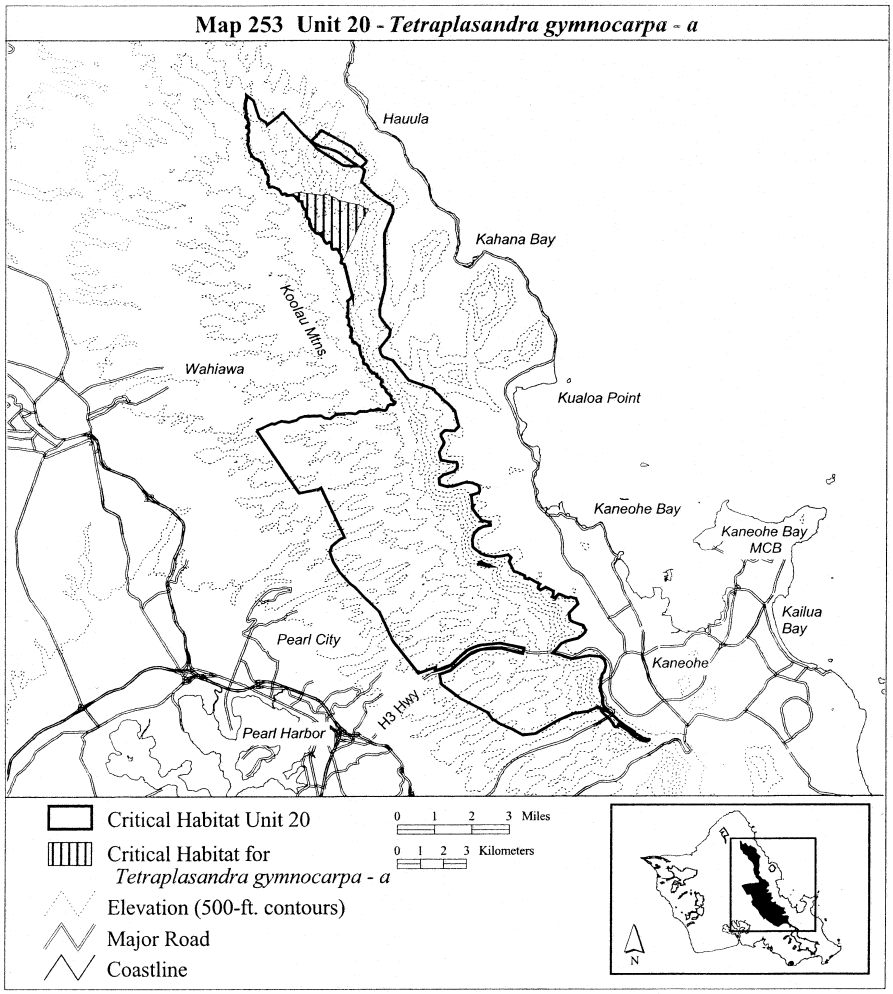
(ii) NOTE: Map 252 follows:



(253) Oahu 20—*Tetraplasandra gymnocarpa*—a (457 ha; 1,129 ac)

(i) Unit consists of the following 197 boundary points: Start at 609064, 2386997; 609513, 2387148; 610476, 2387018; 610552, 2386998; 610622, 2387041; 610795, 2387041; 611132, 2386909; 611289, 2386794; 611684, 2386695; 612203, 2386580; 612317, 2386517; 612583, 2386377; 612341, 2386005; 611418, 2384089; 611404, 2384097; 611396, 2384120; 611393, 2384150; 611397, 2384172; 611413, 2384204; 611422, 2384233; 611428, 2384263; 611435, 2384302; 611435, 2384321; 611429, 2384356; 611429, 2384357; 611417, 2384382; 611394, 2384464; 611387, 2384476; 611374, 2384488; 611374, 2384489; 611358, 2384501; 611334, 2384524; 611326, 2384536; 611302, 2384584; 611257, 2384667; 611256, 2384667; 611245, 2384680; 611244, 2384681; 611224, 2384695; 611223, 2384695; 611203, 2384703; 611202, 2384704; 611192, 2384704; 611191, 2384703; 611165, 2384698; 611119, 2384696; 611118, 2384696; 611082, 2384690; 611081, 2384690; 611065, 2384682; 611064, 2384681; 611058, 2384675; 611046, 2384674; 611039, 2384675; 611028, 2384688; 611014, 2384713; 610994, 2384778; 610981, 2384838; 610976, 2384927; 610973, 2384941; 610973, 2384942; 610965, 2384959; 610965, 2384960; 610957, 2384969; 610957, 2384970; 610934, 2384987; 610933, 2384987; 610909, 2384993; 610908, 2384993; 610888, 2384986; 610839, 2384956; 610809, 2384945; 610780, 2384942; 610766, 2384942; 610749, 2384953; 610709, 2384995; 610692, 2385014; 610679, 2385041; 610630, 2385180; 610616, 2385205; 610606, 2385215; 610606, 2385216; 610598, 2385220; 610558, 2385236; 610543, 2385248; 610533, 2385266; 610516, 2385329; 610509, 2385341; 610509, 2385342; 610508, 2385342; 610497, 2385351; 610496, 2385351; 610454, 2385362; 610440, 2385362; 610440, 2385363; 610394, 2385362; 610370, 2385370; 610333, 2385392; 610292, 2385406; 610280, 2385413; 610261, 2385429; 610248, 2385449; 610237, 2385473; 610222, 2385512; 610222, 2385513; 610214, 2385522; 610206, 2385531; 610206, 2385532; 610187, 2385540; 610166, 2385544; 610134, 2385558; 610129, 2385561; 610122, 2385580; 610119, 2385604; 610119, 2385605; 610112, 2385620; 610111, 2385621; 610093, 2385637; 610078, 2385652; 610077, 2385659; 610090, 2385687; 610097, 2385698; 610098, 2385699; 610098, 2385700; 610097, 2385705; 610097, 2385706; 610081, 2385734; 610054, 2385762; 610039, 2385790; 610028, 2385816; 610024, 2385839; 610027, 2385873; 610035, 2385901; 610035, 2385902; 610035, 2385943; 610035, 2385944; 610029, 2385956; 610029, 2385957; 610003, 2385991; 609994, 2386004; 609993, 2386004; 609993, 2386005; 609971, 2386017; 609955, 2386025; 609948, 2386031; 609929, 2386085; 609909, 2386112; 609908, 2386113; 609898, 2386121; 609887, 2386134; 609883, 2386146; 609884, 2386168; 609879, 2386204; 609884, 2386223; 609905, 2386254; 609905, 2386255; 609909, 2386278; 609909, 2386279; 609907, 2386291; 609881, 2386354; 609880, 2386355; 609858, 2386384; 609834, 2386404; 609797, 2386443; 609797, 2386444; 609790, 2386450; 609769, 2386468; 609748, 2386495; 609737, 2386524; 609719, 2386644; 609711, 2386719; 609711, 2386720; 609705, 2386737; 609704, 2386737; 609704, 2386738; 609693, 2386745; 609692, 2386745; 609595, 2386759; 609570, 2386766; 609560, 2386772; 609536, 2386797; 609481, 2386863; 609461, 2386894; 609449, 2386918; 609449, 2386919; 609439, 2386933; 609438, 2386934; 609425, 2386943; 609379, 2386966; 609323, 2387005; 609308, 2387012; 609269, 2387020; 609248, 2387021; 609184, 2387014; 609134, 2387001; 609078, 2386982; 609074, 2386984; return to starting point.

(ii) NOTE: Map 253 follows:

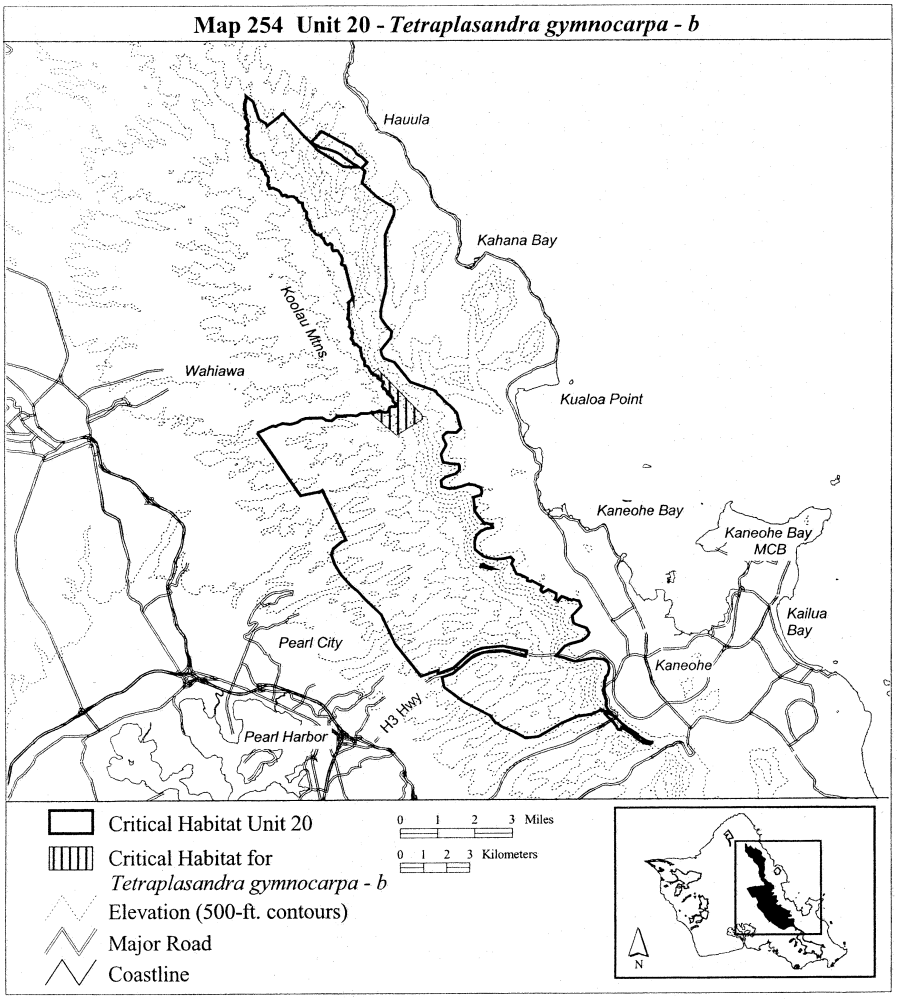


(254) Oahu 20—*Tetraplasandra gymnocarpa*—b (235 ha; 581 ac)

(i) Unit consists of the following 125 boundary points: Start at 612686, 2377751; 612705, 2377757; 612764, 2377738; 612765, 2377738; 612794, 2377742; 612814, 2377728; 612853, 2377742; 612870, 2377747; 613040, 2377760; 613059, 2377772; 613059, 2377774; 613085, 2377777; 613154, 2377768; 613224, 2377738; 613264, 2377728; 613265, 2377728; 613335, 2377738; 613336, 2377738; 613359, 2377752; 613368, 2377747; 613413, 2377754; 613415, 2377755; 613449, 2377784; 613454, 2377825; 613460, 2377881; 613497, 2377929; 613554, 2377977; 613555, 2377987; 613674, 2377978; 613675, 2377978; 613694, 2377988; 613721, 2377976; 613733, 2377976; 613762, 2378001; 613771, 2378068; 613764, 2378090; 613757, 2378093; 613753, 2378093; 613751, 2378091; 613747, 2378094; 613746, 2378095; 613718, 2378106; 613711, 2378117; 613711, 2378118; 613691, 2378143; 613660, 2378168; 613602, 2378212; 613593, 2378224; 613586, 2378238; 613583, 2378253; 613583, 2378292; 613583, 2378328; 613583, 2378329; 613568, 2378356; 613568, 2378357; 613556, 2378372; 613524, 2378400; 613517, 2378408; 613476, 2378444; 613462, 2378463; 613462,

2378464; 613447, 2378478; 613424, 2378499; 613386, 2378532; 613364, 2378562; 613346, 2378613; 613330, 2378641; 613265, 2378728; 613248, 2378749; 613247, 2378750; 613232, 2378759; 613231, 2378759; 613213, 2378764; 613199, 2378769; 613190, 2378778; 613172, 2378818; 613172, 2378819; 613152, 2378848; 613147, 2378859; 613147, 2378860; 613146, 2378860; 613145, 2378860; 613145, 2378861; 613146, 2378862; 613145, 2378862; 613144, 2378873; 613159, 2378951; 613185, 2378998; 613187, 2379004; 613187, 2379005; 613185, 2379019; 613185, 2379020; 613171, 2379040; 613142, 2379072; 613115, 2379100; 613099, 2379113; 613098, 2379113; 613063, 2379127; 612997, 2379166; 612978, 2379188; 612969, 2379215; 612963, 2379226; 612959, 2379247; 612959, 2379248; 612945, 2379276; 612945, 2379277; 612929, 2379297; 612928, 2379298; 612905, 2379314; 612876, 2379327; 612840, 2379337; 612770, 2379350; 612764, 2379355; 612758, 2379364; 612748, 2379389; 612748, 2379390; 612725, 2379410; 612708, 2379419; 612945, 2379601; 614821, 2377667; 614879, 2377445; 613757, 2376749; 612632, 2377703; 612668, 2377720; 612688, 2377749; return to starting point.

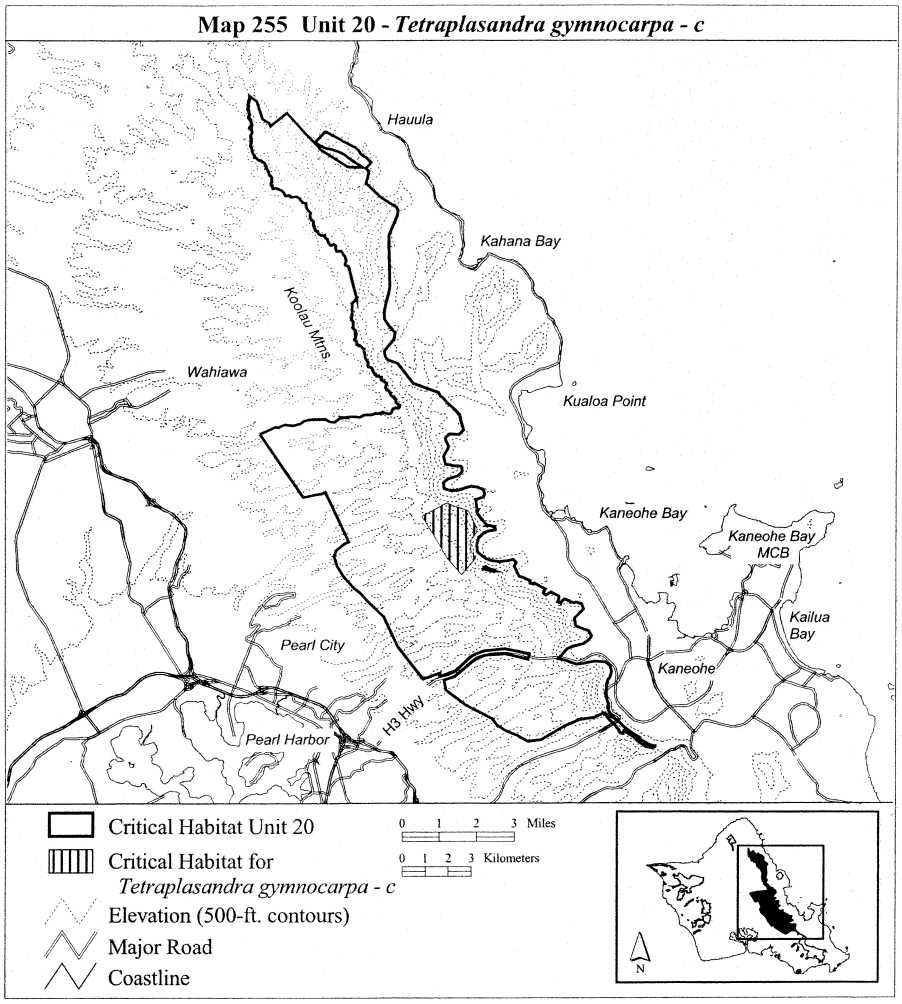
(ii) NOTE: Map 254 follows:



(255) Oahu 20—*Tetraplasandra gymnocarpa*—c (411 ha; 1,016 ac)

(i) Unit consists of the following 12 boundary points: Start at 614721, 2373348; 615833, 2373916; 616083, 2373791; 616741, 2373598; 617116, 2372803; 617082, 2372633; 616843, 2372292; 616855, 2371861; 617070, 2371555; 616446, 2370840; 615799, 2371623; 615300, 2372440; return to starting point.

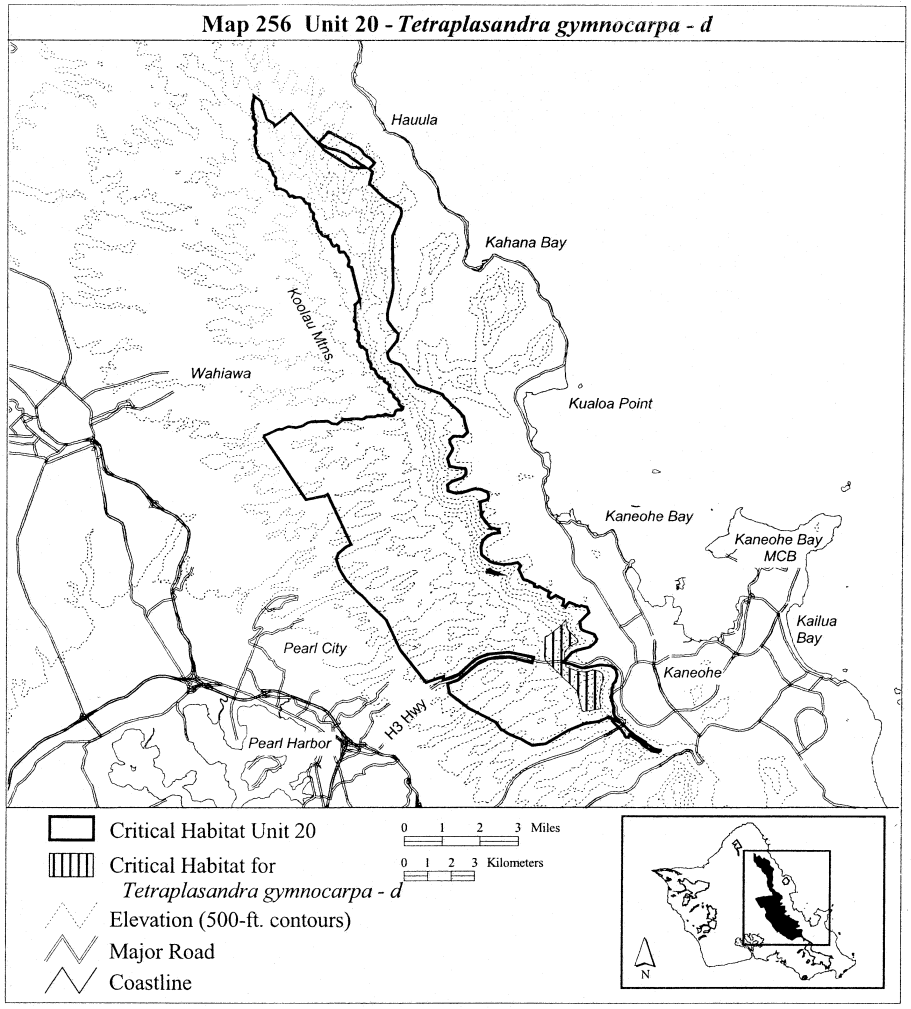
(ii) NOTE: Map 255 follows:



(256) Oahu 20—*Tetraplasandra gymnocarpa*—d (370 ha; 914 ac)

(i) Unit consists of the following 42 boundary points: Start at 621415, 2365210; 621377, 2365197; 621260, 2365702; 621215, 2365844; 621141, 2366079; 619831, 2367368; 619834, 2367413; 619826, 2367420; 619787, 2367457; 619819, 2368310; 619899, 2368379; 619896, 2368335; 620536, 2368845; 620712, 2369081; 620721, 2368747; 620937, 2368490; 621164, 2368253; 621205, 2368109; 620896, 2367965; 620670, 2367717; 620670, 2367338; 620604, 2367260; 620603, 2367260; 620603, 2367259; 620604, 2367258; 620682, 2367237; 620711, 2367069; 621226, 2366873; 621451, 2366857; 621905, 2366944; 621914, 2366941; 621926, 2366944; 621932, 2366935; 622173, 2366851; 622276, 2366759; 622317, 2366501; 622183, 2366264; 622122, 2365750; 622170, 2365369; 622180, 2365290; 621429, 2365165; 621416, 2365206; return to starting point.

(ii) NOTE: Map 256 follows:

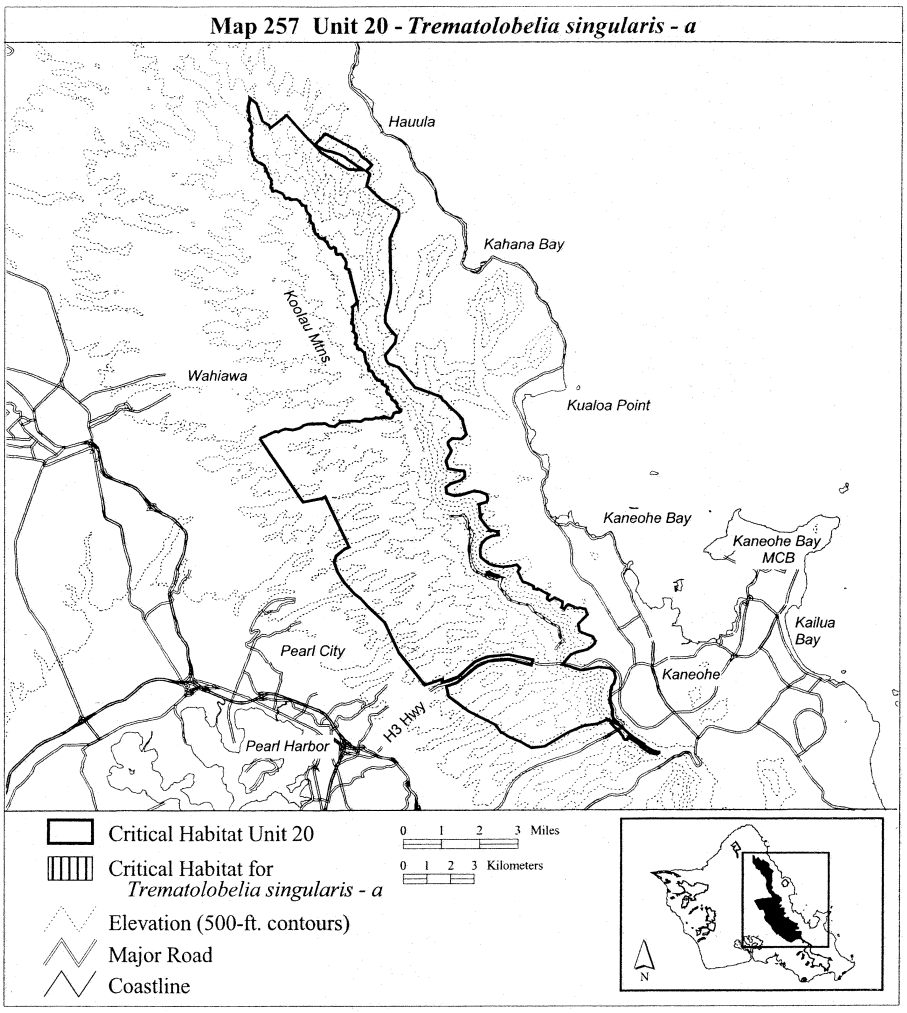


(257) Oahu 20—*Trematolobelia singularis*—a (88 ha; 217 ac)

(i) Unit consists of the following 173 boundary points: Start at 619374, 2369581; 619392, 2369559; 619441, 2369499; 619483, 2369472; 619551, 2369457; 619725, 2369358; 619888, 2369229; 620066, 2369093; 620195, 2369010; 620366, 2368938; 620453, 2368904; 620483, 2368794; 620502, 2368623; 620559, 2368456; 620624, 2368335; 620688, 2368271; 620684, 2368214; 620586, 2368153; 620479, 2368054; 620381, 2367956; 620362, 2367873; 620290, 2367865; 620260, 2367914; 620316, 2368001; 620381, 2368058; 620472, 2368187; 620552, 2368248; 620582, 2368282; 620536, 2368339; 620430, 2368437; 620430, 2368547; 620415, 2368684; 620423, 2368775; 620381, 2368839; 620298, 2368862; 620097, 2368972; 619953, 2369059; 619714, 2369248; 619539, 2369351; 619411, 2369430; 619377, 2369472; 619377, 2369458; 619289, 2369552; 619210, 2369659; 619134, 2369731; 619013, 2369783; 618837, 2369792; 618789, 2369792; 618637, 2369862; 618406, 2369919; 618243, 2370004; 618243, 2370068; 618197, 2370144; 618185, 2370171; 618137, 2370183; 618109,

2370220; 618079, 2370301; 617988, 2370408; 617906, 2370492; 617858, 2370556; 617858, 2370623; 617876, 2370687; 617897, 2370796; 617836, 2370808; 617773, 2370817; 617724, 2370838; 617648, 2370859; 617542, 2370859; 617451, 2370902; 617379, 2370941; 617218, 2371026; 617157, 2371064; 617151, 2371055; 617084, 2371122; 616985, 2371134; 616903, 2371185; 616812, 2371264; 616733, 2371359; 616713, 2371457; 616666, 2371619; 616638, 2371785; 616611, 2371942; 616583, 2372108; 616599, 2372266; 616638, 2372415; 616634, 2372423; 616631, 2372565; 616698, 2372672; 616678, 2372739; 616666, 2372806; 616654, 2372908; 616631, 2372964; 616567, 2372999; 616536, 2373078; 616489, 2373161; 616524, 2373236; 616532, 2373310; 616504, 2373381; 616469, 2373445; 616433, 2373496; 616410, 2373563; 616366, 2373579; 616351, 2373567; 616252, 2373543; 616122, 2373523; 615948, 2373519; 615842, 2373516; 615814, 2373594; 615864, 2373580; 615870, 2373618; 616047, 2373606; 616102, 2373606; 616185, 2373606; 616319, 2373634; 616390, 2373665; 616473, 2373638; 616536, 2373535; 616607, 2373405; 616607, 2373255; 616627, 2373137; 616717, 2373042; 616757, 2372960; 616820, 2372829; 616832, 2372707; 616796, 2372605; 616761, 2372522; 616761, 2372419; 616729, 2372348; 616705, 2372195; 616709, 2372096; 616721, 2371958; 616753, 2371836; 616769, 2371714; 616761, 2371674; 616796, 2371548; 616839, 2371473; 616875, 2371371; 616958, 2371280; 617045, 2371209; 617192, 2371133; 617194, 2371135; 617369, 2371041; 617509, 2370969; 617636, 2370923; 617697, 2370908; 617824, 2370908; 617958, 2370938; 618000, 2370956; 618058, 2370984; 618109, 2370993; 618128, 2370956; 618097, 2370929; 618058, 2370868; 618027, 2370799; 617988, 2370714; 617967, 2370641; 617973, 2370568; 618030, 2370492; 618076, 2370438; 618106, 2370408; 618161, 2370368; 618212, 2370256; 618337, 2370141; 618385, 2370065; 618431, 2370004; 618546, 2369956; 618737, 2369901; 618855, 2369874; 619068, 2369828; 619198, 2369792; 619313, 2369707; 619347, 2369643; 619374, 2369586; return to starting point.

(ii) NOTE: Map 257 follows:

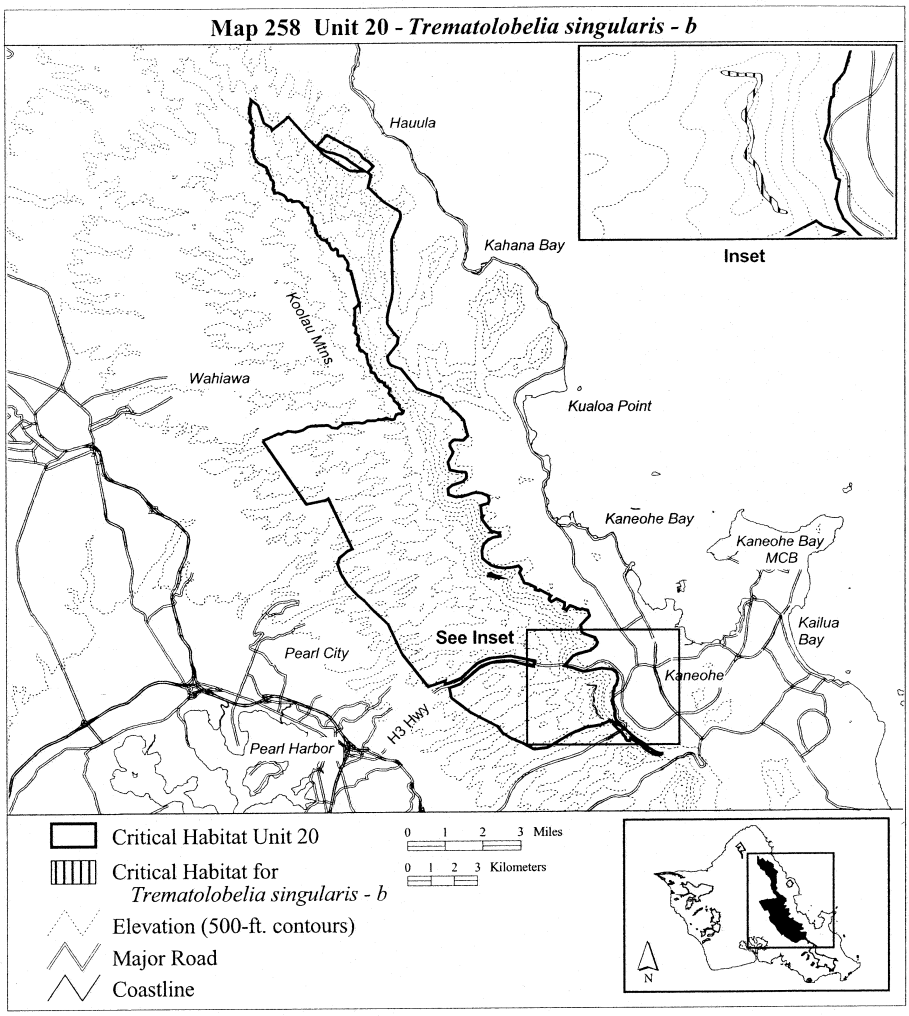


(258) Oahu 20—*Trematolobelia singularis*—b (10 ha; 25 ac)

(i) Unit consists of the following 104 boundary points: Start at 622202, 2365006; 622110, 2365022; 622077, 2365045; 622053, 2365096; 622025, 2365135; 621986, 2365171; 621931, 2365225; 621917, 2365275; 621904, 2365327; 621896, 2365404; 621891, 2365456; 621854, 2365504; 621801, 2365545; 621767, 2365584; 621767, 2365605; 621772, 2365640; 621790, 2365678; 621813, 2365705; 621835, 2365747; 621834, 2365781; 621835, 2365782; 621835, 2365784; 621832, 2365788; 621833, 2365788; 621823, 2365812; 621813, 2365837; 621804, 2365879; 621799, 2365908; 621779, 2365935; 621745, 2365973; 621740, 2365992; 621740, 2366025; 621751, 2366056; 621784, 2366087; 621807, 2366127; 621803, 2366169; 621799, 2366195; 621809, 2366216; 621840, 2366239; 621871, 2366276; 621890, 2366304; 621900, 2366327; 621907, 2366351; 621891, 2366388; 621840, 2366397; 621787, 2366406; 621706, 2366405; 621654, 2366406; 621584, 2366414; 621553, 2366429; 621531, 2366439; 621532, 2366457; 621565, 2366462; 621627, 2366456; 621683, 2366445; 621730, 2366436; 621801, 2366441; 621865, 2366434;

621930, 2366434; 621953, 2366420; 621956, 2366377; 621953, 2366337; 621928, 2366285; 621899, 2366237; 621880, 2366205; 621857, 2366169; 621860, 2366136; 621840, 2366101; 621815, 2366053; 621803, 2366028; 621798, 2366007; 621823, 2365964; 621846, 2365922; 621870, 2365794; 621871, 2365794; 621872, 2365783; 621874, 2365781; 621871, 2365770; 621870, 2365770; 621869, 2365768; 621857, 2365714; 621848, 2365669; 621834, 2365618; 621834, 2365594; 621849, 2365573; 621880, 2365543; 621914, 2365506; 621935, 2365444; 621959, 2365404; 621970, 2365335; 621981, 2365287; 621983, 2365253; 622011, 2365219; 622022, 2365197; 622057, 2365178; 622088, 2365146; 622107, 2365130; 622118, 2365084; 622130, 2365064; 622146, 2365054; 622172, 2365050; 622200, 2365037; 622217, 2365025; 622217, 2365011; return to starting point.

(ii) NOTE: Map 258 follows:



(259) Oahu 20—*Viola oahuensis*—a (903 ha; 2,232 ac)

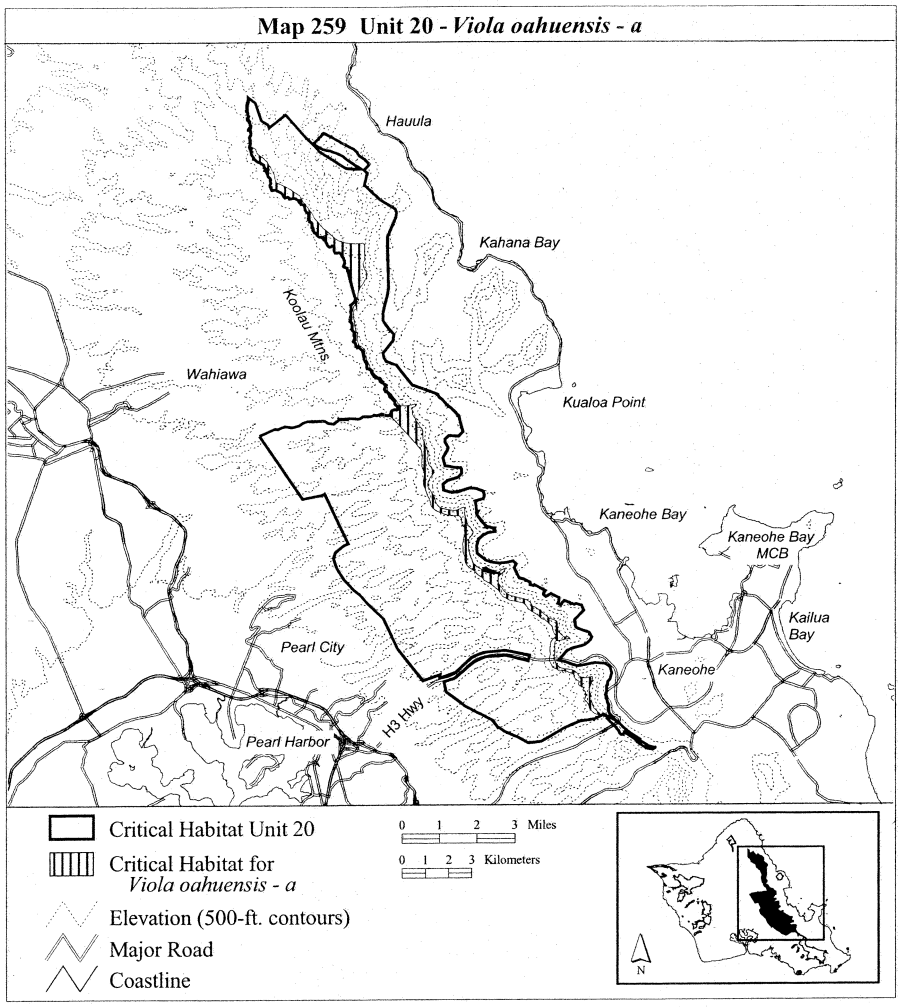
(i) Unit consists of the following 1014 boundary points: Start at 613555, 2377987; 613674, 2377978; 613675, 2377978; 613694, 2377988; 613721, 2377976; 613733, 2377976; 613762, 2378001; 613771, 2378068; 613764, 2378090; 613757, 2378093; 613753, 2378093; 613751, 2378091; 613747, 2378094; 613746, 2378095; 613718, 2378106; 613711, 2378117; 613691, 2378143; 613660, 2378168; 613602, 2378212; 613593, 2378224; 613586, 2378238; 613583, 2378253; 613583, 2378292; 613583, 2378328; 613583, 2378329; 613568, 2378356; 613556, 2378372; 613524, 2378400; 613517, 2378408; 613476, 2378444; 613462, 2378463; 613447, 2378478; 613424, 2378499; 613386, 2378532; 613364, 2378562; 613346, 2378613; 613330, 2378641; 613265, 2378728; 613248, 2378749; 613232, 2378759; 613213, 2378764; 613199, 2378769; 613190, 2378778; 613172, 2378818; 613172, 2378819; 613152, 2378848; 613147, 2378859; 613147, 2378860; 613146, 2378860; 613145, 2378860; 613145, 2378861; 613146, 2378862; 613144, 2378873; 613159, 2378951; 613185, 2378998; 613187, 2379004; 613187, 2379005; 613185, 2379019; 613185, 2379020; 613171, 2379040; 613142, 2379072; 613115, 2379100; 613099, 2379113; 613098, 2379113; 613063, 2379127; 612997, 2379166; 612978, 2379188; 612969, 2379215; 612963, 2379226; 612959, 2379247; 612959, 2379248; 612945, 2379276; 612929, 2379297; 612905, 2379314; 612876, 2379327; 612840, 2379337; 612770, 2379350; 612764, 2379355; 612758, 2379364; 612748, 2379389; 612748, 2379390; 612725, 2379410; 612700, 2379424; 612683, 2379441; 612663, 2379470; 612619, 2379529; 612600, 2379563; 612586, 2379618; 612573, 2379650; 612555, 2379679; 612517, 2379716; 612495, 2379729; 612412, 2379753; 612397, 2379761; 612387, 2379798; 612388, 2379851; 612386, 2379928; 612379, 2379961; 612375, 2379970; 612367, 2379981; 612366, 2379981; 612353, 2379991; 612328, 2380018; 612262, 2380145; 612255, 2380163; 612249, 2380199; 612248, 2380233; 612234, 2380304; 612226, 2380334; 612225, 2380334; 612224, 2380337; 612211, 2380367; 612213, 2380397; 612218, 2380419; 612218, 2380420; 612215, 2380452; 612212, 2380464; 612202, 2380506; 612202, 2380507; 612197, 2380516; 612177, 2380539; 612112, 2380593; 612086, 2380625; 612073, 2380644; 612046, 2380669; 612016, 2380686; 611992, 2380690; 611965, 2380687; 611955, 2380689; 611941, 2380693; 611927, 2380702; 611919, 2380710; 611905, 2380743; 611889, 2380825; 611889, 2380826; 611880, 2380839; 611856, 2380862; 611812, 2380892; 611799, 2380905; 611798, 2380918; 611800, 2380925; 611815, 2380943; 611838, 2380960; 611848, 2380980; 611851, 2381022; 611848, 2381067; 611853, 2381081; 611879, 2381118; 611879, 2381119; 611879, 2381131; 611879, 2381132; 611868, 2381149; 611858, 2381155; 611857, 2381155; 611847, 2381160; 611837, 2381167; 611828, 2381178; 611825, 2381193; 611830, 2381214; 611838, 2381223; 611854, 2381250; 611854, 2381251; 611856, 2381258; 611855, 2381265; 611855, 2381266; 611849, 2381285; 611848, 2381286; 611828, 2381312; 611784, 2381363; 611765, 2381383; 611734, 2381424; 611733, 2381424; 611730, 2381426; 611737, 2381446; 611745, 2381514; 611746, 2381550; 611748, 2381618; 611739, 2381669; 611736, 2381680; 611727, 2381699; 611727, 2381700; 611673, 2381758; 611666, 2381774; 611666, 2381794; 611670, 2381810; 611702, 2381865; 611712, 2381882; 611712, 2381883; 611712, 2381915; 611712, 2381916; 611710, 2381923; 611687, 2381955; 611687, 2381978; 611695, 2381990; 611702, 2382013; 611702, 2382014; 611700, 2382058; 611694, 2382120; 611695, 2382225; 611701, 2382278; 611701, 2382279; 611699, 2382320; 611695, 2382360; 611693, 2382433; 611692, 2382455; 611698, 2382473; 611744, 2382512; 611805, 2382557; 611831, 2382588; 611844, 2382604; 611850, 2382621; 611874, 2382653; 611896, 2382683; 611903, 2382704; 611903, 2382705; 611903, 2382706; 611902, 2382707; 611901, 2382707; 611900, 2382707; 611900, 2382706; 611899, 2382706; 611892, 2382686; 611891, 2382684; 611795, 2383056; 611597, 2383822; 611567, 2383939; 611567, 2383940; 611561, 2383949; 611537, 2384020; 611536, 2384020; 611525, 2384040; 611515, 2384051; 611495, 2384064; 611460, 2384078; 611430, 2384082; 611404, 2384097; 611396, 2384120; 611393, 2384150; 611397, 2384172; 611413, 2384204; 611422, 2384233; 611428, 2384263; 611435, 2384302; 611435, 2384321; 611429, 2384356; 611417, 2384382; 611394, 2384464; 611387, 2384476; 611374, 2384488; 611358, 2384501; 611334, 2384524; 611326, 2384536; 611302, 2384584; 611257, 2384667; 611256, 2384667; 611245, 2384680; 611244, 2384681; 611224, 2384695; 611223, 2384695; 611203, 2384703; 611202, 2384704; 611192, 2384704; 611165, 2384698; 611119, 2384696; 611082, 2384690; 611081, 2384690; 611065, 2384682; 611058, 2384675; 611046, 2384674; 611039, 2384675; 611028, 2384688; 611014, 2384713; 610994, 2384778; 610981, 2384838; 610976, 2384927; 610973, 2384941; 610965, 2384959; 610957, 2384969; 610957, 2384970; 610934, 2384987; 610933, 2384987; 610909, 2384993; 610908, 2384993; 610888, 2384986; 610839, 2384956; 610809,

2384945; 610780, 2384942; 610766, 2384942; 610749, 2384953; 610709, 2384995; 610692, 2385014; 610679, 2385041; 610630, 2385180; 610616, 2385205; 610606, 2385215; 610606, 2385216; 610598, 2385220; 610558, 2385236; 610543, 2385248; 610533, 2385266; 610516, 2385329; 610509, 2385341; 610509, 2385342; 610497, 2385351; 610496, 2385351; 610454, 2385362; 610440, 2385362; 610394, 2385362; 610370, 2385370; 610333, 2385392; 610292, 2385406; 610280, 2385413; 610261, 2385429; 610248, 2385449; 610237, 2385473; 610222, 2385512; 610222, 2385513; 610214, 2385522; 610206, 2385531; 610206, 2385532; 610187, 2385540; 610166, 2385544; 610134, 2385558; 610129, 2385561; 610122, 2385580; 610119, 2385604; 610119, 2385605; 610112, 2385620; 610111, 2385621; 610093, 2385637; 610078, 2385652; 610077, 2385659; 610090, 2385687; 610097, 2385698; 610098, 2385699; 610098, 2385700; 610097, 2385705; 610097, 2385706; 610081, 2385734; 610054, 2385762; 610039, 2385790; 610028, 2385816; 610024, 2385839; 610027, 2385873; 610035, 2385901; 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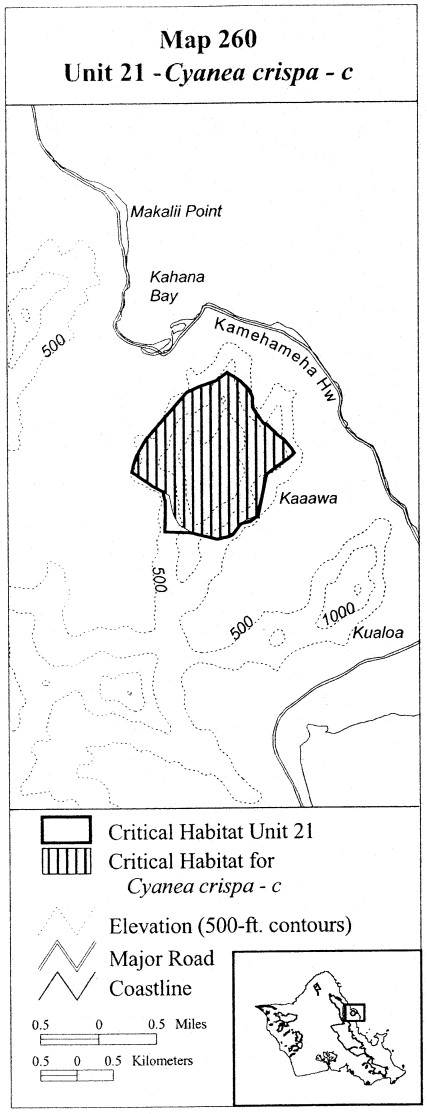
(ii) NOTE: Map 259 follows:



(260) Oahu 21—*Cyanea crispa*—c (302 ha; 747 ac)

(i) Unit consists of the following 37 boundary points: Start at 617933, 2381390; 617892, 2381379; 617719, 2381338; 617384, 2381422; 617189, 2381542; 617110, 2381673; 617049, 2381956; 616835, 2382068; 616529, 2382272; 616554, 2382383; 616601, 2382510; 616729, 2382733; 617094, 2383146; 617300, 2383383; 617491, 2383463; 617713, 2383542; 617872, 2383652; 618044, 2383540; 618179, 2383410; 618225, 2383312; 618225, 2383164; 618360, 2382964; 618495, 2382829; 618656, 2382717; 618767, 2382588; 618804, 2382523; 618721, 2382449; 618563, 2382347; 618378, 2382198; 618350, 2382032; 618304, 2381819; 618258, 2381661; 618119, 2381597; 617980, 2381477; 617937, 2381395; 617934, 2381393; 617933, 2381392; return to starting point.

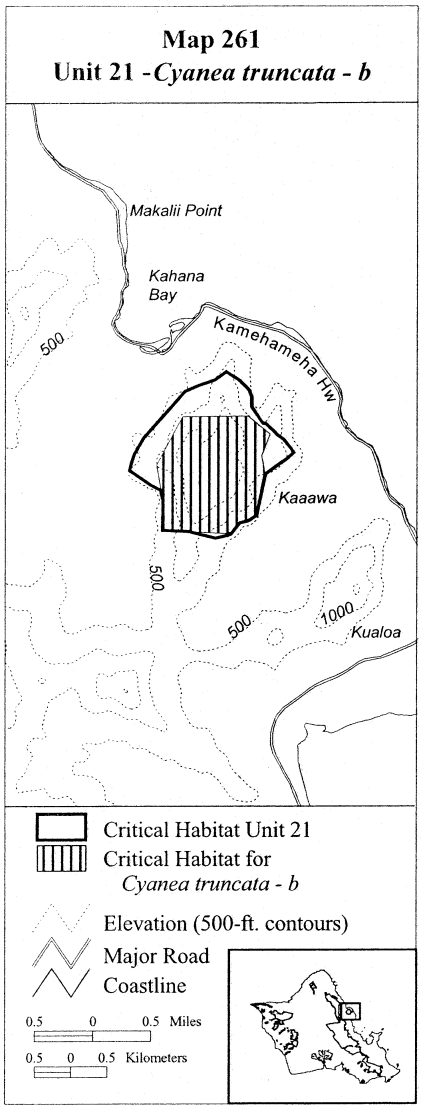
(ii) NOTE: Map 260 follows:



(261) Oahu 21—*Cyanea truncata*—b (211 ha; 520 ac)

(i) Unit consists of the following 23 boundary points: Start at 618479, 2382785; 618362, 2382482; 618416, 2382209; 618407, 2382202; 618406, 2382201; 618288, 2381653; 618264, 2381637; 618183, 2381582; 618057, 2381548; 617941, 2381398; 617940, 2381397; 616992, 2381447; 616996, 2381713; 616996, 2381862; 616998, 2381875; 616998, 2381876; 616997, 2381877; 616993, 2381879; 616985, 2381888; 616911, 2382352; 617268, 2383028; 618143, 2383034; 618178, 2383039; return to starting point.

(ii) NOTE: Map 261 follows:

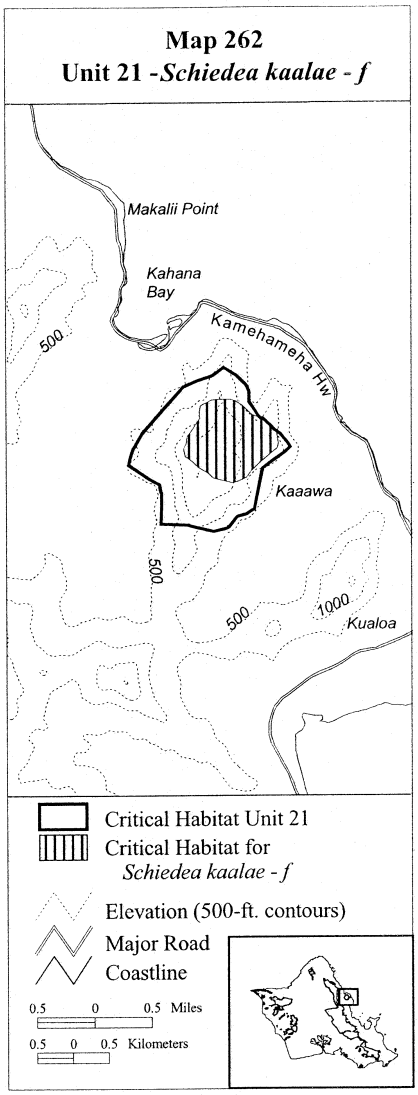


(262) Oahu 21—*Schiedea kaalae*—f (105 ha; 260 ac)

(i) Unit consists of the following 31 boundary points: Start at 617965,

2383203; 618037, 2383179; 618147, 2383102; 618264, 2382982; 618420, 2382928; 618471, 2382874; 618531, 2382829; 618614, 2382721; 618638, 2382581; 618620, 2382509; 618536, 2382443; 618387, 2382317; 618261, 2382195; 618189, 2382102; 618090, 2382057; 618004, 2382024; 617722, 2382091; 617650, 2382160; 617516, 2382246; 617429, 2382327; 617333, 2382396; 617312, 2382498; 617348, 2382579; 617357, 2382669; 617438, 2382781; 617495, 2382871; 617534, 2382931; 617531, 2383024; 617543, 2383114; 617701, 2383197; 617809, 2383206; return to starting point.

(ii) NOTE: Map 262 follows:

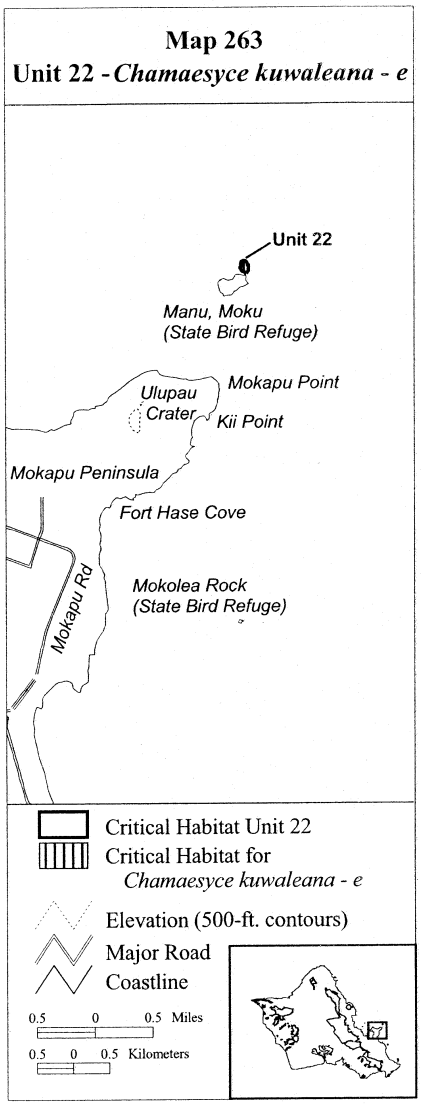


(263) Oahu 22—*Chamaesyce kuwaleana*—e (1 ha; 3 ac)

(i) Unit consists of the following 41 boundary points: Start at 632758, 2374821; 632752, 2374819; 632749, 2374820; 632735, 2374834; 632728, 2374841; 632710, 2374844; 632703, 2374848; 632695, 2374856; 632694, 2374865; 632682, 2374879; 632677, 2374886; 632677, 2374893; 632681, 2374899; 632688, 2374903; 632689, 2374903; 632695,

2374910; 632695, 2374911; 632696, 2374916; 632697, 2374917; 632696, 2374917; 632695, 2374920; 632691, 2374932; 632690, 2374948; 632694, 2374960; 632697, 2374967; 632707, 2374975; 632721, 2374981; 632736, 2374981; 632747, 2374977; 632756, 2374970; 632765, 2374955; 632774, 2374935; 632778, 2374927; 632779, 2374924; 632779, 2374923; 632781, 2374922; 632787, 2374905; 632787, 2374876; 632782, 2374856; 632774, 2374840; 632769, 2374833; return to starting point.

(ii) NOTE: Map 263 follows:

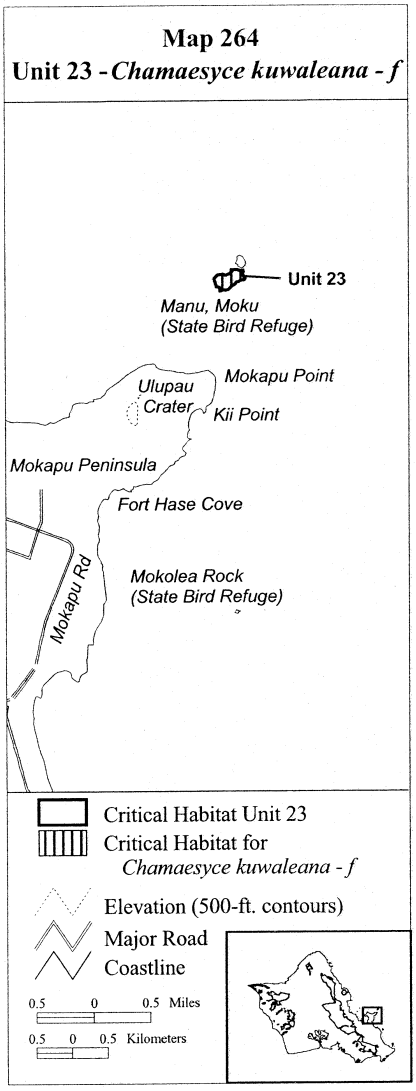


(264) Oahu 23—*Chamaesyce kuwaleana*—f (6 ha; 15 ac)

(i) Unit consists of the following 129 boundary points: Start at 632637, 2374611; 632629, 2374603; 632619, 2374595; 632608, 2374587; 632608, 2374586; 632597, 2374573; 632587, 2374562; 632581, 2374557; 632569, 2374552; 632562, 2374549; 632546, 2374546; 632534, 2374546; 632521, 2374547; 632507, 2374547; 632498, 2374546; 632497,

2374546; 632494, 2374543; 632486, 2374538; 632479, 2374535; 632475, 2374535; 632474, 2374536; 632473, 2374543; 632473, 2374550; 632470, 2374561; 632468, 2374569; 632468, 2374570; 632464, 2374575; 632464, 2374576; 632458, 2374582; 632451, 2374584; 632450, 2374584; 632442, 2374585; 632434, 2374589; 632428, 2374592; 632424, 2374597; 632420, 2374606; 632416, 2374616; 632412, 2374627; 632409, 2374637; 632406, 2374648; 632402, 2374660; 632399, 2374675; 632399, 2374685; 632399, 2374694; 632402, 2374698; 632411, 2374704; 632419, 2374712; 632427, 2374720; 632427, 2374721; 632433, 2374729; 632440, 2374734; 632444, 2374737; 632451, 2374740; 632459, 2374743; 632470, 2374743; 632481, 2374743; 632493, 2374748; 632499, 2374749; 632503, 2374748; 632510, 2374744; 632520, 2374741; 632529, 2374736; 632530, 2374736; 632539, 2374735; 632547, 2374735; 632548, 2374735; 632570, 2374745; 632579, 2374748; 632587, 2374751; 632595, 2374754; 632601, 2374757; 632606, 2374760; 632606, 2374761; 632610, 2374767; 632613, 2374772; 632615, 2374778; 632616, 2374786; 632616, 2374790; 632618, 2374793; 632620, 2374797; 632622, 2374799; 632627, 2374801; 632633, 2374802; 632644, 2374804; 632655, 2374805; 632668, 2374805; 632681, 2374803; 632694, 2374800; 632705, 2374797; 632721, 2374794; 632731, 2374790; 632732, 2374790; 632737, 2374791; 632738, 2374791; 632740, 2374792; 632743, 2374796; 632747, 2374797; 632752, 2374797; 632756, 2374795; 632760, 2374787; 632763, 2374778; 632763, 2374771; 632758, 2374768; 632750, 2374763; 632750, 2374762; 632749, 2374757; 632751, 2374749; 632755, 2374738; 632762, 2374727; 632770, 2374717; 632777, 2374707; 632783, 2374699; 632783, 2374690; 632781, 2374683; 632777, 2374679; 632767, 2374678; 632750, 2374674; 632738, 2374669; 632720, 2374663; 632694, 2374654; 632682, 2374650; 632681, 2374650; 632677, 2374646; 632677, 2374645; 632671, 2374638; 632668, 2374633; 632661, 2374628; 632641, 2374614; 632640, 2374614; return to starting point.

(ii) NOTE: Map 264 follows:

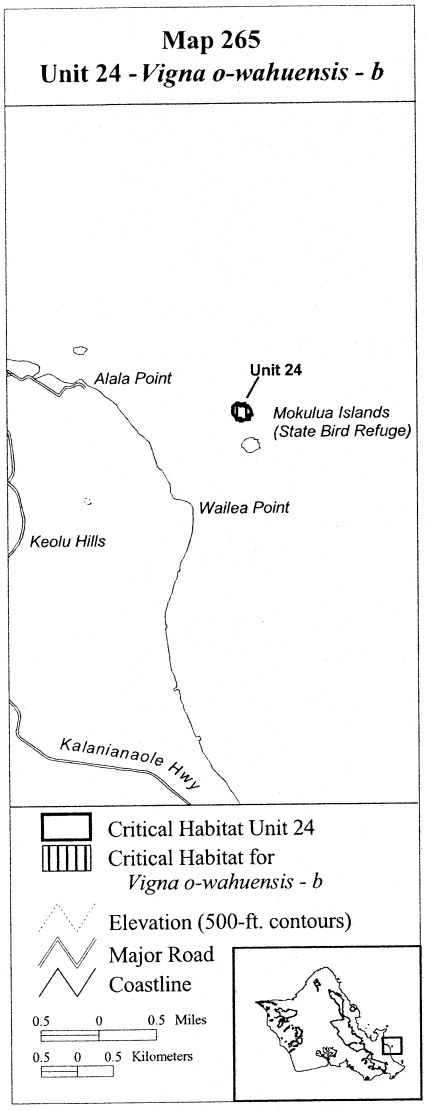


(265) Oahu 24—*Vigna o-wahuensis*—b (5 ha; 12 ac)

(i) Unit consists of the following 182 boundary points: Start at 634907, 2365956; 634895, 2365952; 634889, 2365949; 634884, 2365946; 634883, 2365946; 634879, 2365942; 634874, 2365938; 634871, 2365935; 634867, 2365934; 634863, 2365935; 634858, 2365937; 634857, 2365938; 634854, 2365938; 634853, 2365937; 634848, 2365936; 634844,

2365934; 634843, 2365935; 634842, 2365939; 634843, 2365942; 634843, 2365943; 634844, 2365947; 634846, 2365954; 634847, 2365960; 634847, 2365961; 634845, 2365964; 634845, 2365965; 634844, 2365965; 634838, 2365969; 634837, 2365969; 634836, 2365969; 634832, 2365968; 634831, 2365968; 634829, 2365966; 634828, 2365966; 634826, 2365963; 634823, 2365960; 634818, 2365954; 634812, 2365948; 634807, 2365947; 634802, 2365947; 634799, 2365947; 634796, 2365950; 634792, 2365956; 634788, 2365963; 634784, 2365969; 634784, 2365977; 634782, 2365983; 634782, 2365984; 634778, 2365989; 634778, 2365990; 634772, 2365995; 634762, 2366004; 634755, 2366010; 634749, 2366016; 634743, 2366023; 634741, 2366030; 634739, 2366040; 634738, 2366050; 634738, 2366057; 634737, 2366057; 634737, 2366068; 634737, 2366079; 634737, 2366088; 634740, 2366098; 634742, 2366104; 634742, 2366105; 634742, 2366109; 634742, 2366110; 634739, 2366114; 634738, 2366120; 634738, 2366126; 634738, 2366134; 634739, 2366140; 634741, 2366144; 634749, 2366150; 634763, 2366160; 634791, 2366178; 634795, 2366181; 634799, 2366182; 634803, 2366182; 634804, 2366182; 634806, 2366183; 634807, 2366184; 634807, 2366187; 634808, 2366189; 634809, 2366189; 634813, 2366189; 634815, 2366188; 634819, 2366186; 634821, 2366184; 634824, 2366178; 634827, 2366170; 634829, 2366160; 634831, 2366153; 634832, 2366148; 634832, 2366147; 634833, 2366147; 634844, 2366143; 634847, 2366142; 634851, 2366142; 634852, 2366142; 634852, 2366143; 634853, 2366144; 634855, 2366148; 634859, 2366154; 634862, 2366159; 634864, 2366164; 634869, 2366166; 634874, 2366169; 634881, 2366172; 634887, 2366175; 634893, 2366177; 634899, 2366177; 634902, 2366174; 634905, 2366171; 634906, 2366165; 634904, 2366158; 634902, 2366149; 634902, 2366144; 634902, 2366143; 634905, 2366141; 634906, 2366141; 634913, 2366142; 634921, 2366142; 634926, 2366144; 634929, 2366146; 634933, 2366148; 634936, 2366148; 634939, 2366144; 634942, 2366135; 634943, 2366135; 634946, 2366129; 634946, 2366128; 634950, 2366126; 634951, 2366126; 634957, 2366124; 634962, 2366119; 634968, 2366114; 634975, 2366105; 634981, 2366095; 634987, 2366083; 634993, 2366061; 634996, 2366050; 634999, 2366035; 634999, 2366024; 634998, 2366020; 634992, 2366018; 634985, 2366018; 634985, 2366019; 634984, 2366018; 634975, 2366017; 634963, 2366016; 634962, 2366016; 634960, 2366014; 634959, 2366014; 634959, 2366013; 634960, 2366011; 634960, 2366010; 634962, 2366006; 634965, 2366003; 634967, 2366000; 634969, 2365996; 634968, 2365990; 634965, 2365985; 634964, 2365985; 634963, 2365979; 634961, 2365974; 634961, 2365973; 634962, 2365965; 634963, 2365961; 634961, 2365960; 634956, 2365955; 634951, 2365953; 634942, 2365952; 634934, 2365951; 634930, 2365950; 634926, 2365949; 634922, 2365950; 634916, 2365953; 634911, 2365956; 634911, 2365957; 634910, 2365956; return to starting point.

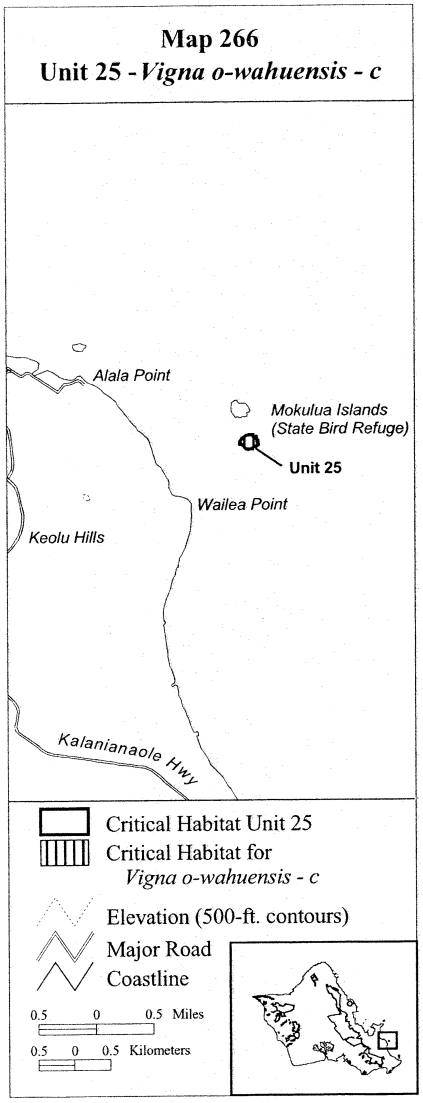
(ii) NOTE: Map 265 follows:



(266) Oahu 25—*Vigna o-wahuensis*—c (4 ha; 9 ac)

(i) Unit consists of the following 117 boundary points: Start at 635103, 2365593; 635104, 2365590; 635104, 2365589; 635105, 2365586; 635106, 2365574; 635107, 2365567; 635107, 2365566; 635108, 2365566; 635112, 2365561; 635116, 2365557; 635116, 2365552; 635111, 2365547; 635103, 2365543; 635091, 2365539; 635077, 2365535; 635065, 2365533; 635055, 2365530; 635054, 2365530; 635048, 2365523; 635042, 2365515; 635033, 2365507; 635028, 2365502; 635023, 2365498; 635015, 2365497; 635007, 2365497; 634993, 2365497; 634986, 2365497; 634986, 2365498; 634985, 2365497; 634980, 2365496; 634972, 2365497; 634958, 2365498; 634948, 2365500; 634938, 2365503; 634929, 2365511; 634921, 2365519; 634915, 2365529; 634914, 2365532; 634914, 2365533; 634906, 2365541; 634900, 2365548; 634893, 2365556; 634892, 2365557; 634887, 2365560; 634882, 2365562; 634876, 2365564; 634875, 2365565; 634875, 2365564; 634867, 2365564; 634861, 2365566; 634858, 2365567; 634857, 2365573; 634855, 2365579; 634854, 2365588; 634853, 2365592; 634856, 2365600; 634861, 2365606; 634862, 2365606; 634872, 2365624; 634887, 2365638; 634898, 2365648; 634898, 2365649; 634903, 2365654; 634910, 2365662; 634918, 2365671; 634928, 2365679; 634935, 2365684; 634944, 2365687; 634956, 2365691; 634967, 2365696; 634978, 2365699; 634990, 2365701; 634998, 2365698; 635005, 2365696; 635018, 2365695; 635027, 2365696; 635035, 2365698; 635037, 2365697; 635040, 2365694; 635041, 2365692; 635042, 2365688; 635041, 2365684; 635040, 2365681; 635039, 2365681; 635039, 2365678; 635039, 2365677; 635040, 2365675; 635040, 2365674; 635041, 2365674; 635046, 2365671; 635047, 2365671; 635054, 2365670; 635055, 2365670; 635062, 2365671; 635071, 2365671; 635078, 2365672; 635082, 2365672; 635084, 2365670; 635087, 2365666; 635087, 2365662; 635085, 2365658; 635085, 2365657; 635084, 2365652; 635083, 2365648; 635083, 2365647; 635086, 2365643; 635092, 2365637; 635099, 2365631; 635107, 2365625; 635110, 2365621; 635111, 2365616; 635110, 2365612; 635109, 2365608; 635104, 2365602; 635101, 2365599; 635101, 2365598; 635101, 2365597; return to starting point.

(ii) NOTE: Map 266 follows:

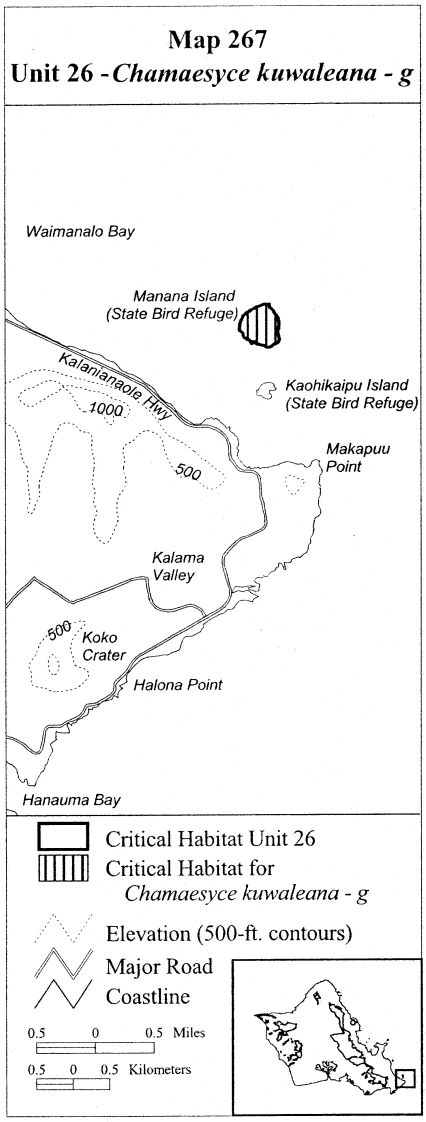


(267) Oahu 26—*Chamaesyce kuwaleana*—g (27 ha; 66 ac)

(i) Unit consists of the following 214 boundary points: Start at 639041, 2358964; 639029, 2358969; 639024, 2358973; 639019, 2358980; 639016, 2358988; 639015, 2358994; 639015, 2358998; 639014, 2359006; 639013, 2359012; 639012, 2359023; 639012, 2359024; 639009, 2359029; 639006, 2359034; 639005, 2359035; 639002, 2359038; 638998,

2359043; 638997, 2359043; 638992, 2359048; 638982, 2359054; 638972, 2359062; 638965, 2359067; 638959, 2359072; 638956, 2359077; 638955, 2359084; 638955, 2359090; 638959, 2359100; 638961, 2359105; 638962, 2359109; 638963, 2359116; 638964, 2359125; 638964, 2359139; 638966, 2359158; 638968, 2359166; 638972, 2359175; 638975, 2359185; 638980, 2359202; 638985, 2359213; 638990, 2359226; 638995, 2359239; 639003, 2359252; 639009, 2359267; 639016, 2359280; 639027, 2359291; 639035, 2359299; 639044, 2359307; 639057, 2359317; 639065, 2359323; 639076, 2359330; 639088, 2359336; 639107, 2359344; 639114, 2359349; 639122, 2359355; 639129, 2359360; 639137, 2359367; 639153, 2359376; 639167, 2359385; 639180, 2359392; 639190, 2359397; 639202, 2359404; 639210, 2359408; 639229, 2359417; 639241, 2359421; 639260, 2359429; 639278, 2359435; 639302, 2359444; 639312, 2359448; 639327, 2359452; 639337, 2359453; 639356, 2359453; 639369, 2359451; 639377, 2359449; 639383, 2359446; 639387, 2359442; 639391, 2359438; 639395, 2359434; 639396, 2359431; 639397, 2359426; 639398, 2359420; 639398, 2359416; 639399, 2359411; 639400, 2359407; 639400, 2359406; 639404, 2359403; 639413, 2359394; 639422, 2359387; 639430, 2359381; 639441, 2359370; 639450, 2359359; 639456, 2359350; 639463, 2359340; 639468, 2359332; 639474, 2359317; 639487, 2359300; 639495, 2359288; 639502, 2359276; 639510, 2359263; 639516, 2359251; 639520, 2359243; 639523, 2359239; 639525, 2359235; 639528, 2359229; 639531, 2359221; 639532, 2359216; 639533, 2359206; 639535, 2359193; 639536, 2359179; 639536, 2359168; 639539, 2359153; 639539, 2359142; 639540, 2359134; 639540, 2359129; 639540, 2359124; 639538, 2359112; 639536, 2359106; 639533, 2359100; 639529, 2359093; 639529, 2359092; 639526, 2359080; 639524, 2359071; 639524, 2359070; 639524, 2359056; 639523, 2359038; 639524, 2359025; 639526, 2359010; 639531, 2358995; 639534, 2358978; 639537, 2358968; 639540, 2358958; 639542, 2358950; 639543, 2358943; 639543, 2358938; 639543, 2358932; 639542, 2358923; 639539, 2358916; 639539, 2358915; 639537, 2358908; 639532, 2358898; 639526, 2358892; 639520, 2358887; 639508, 2358880; 639498, 2358876; 639487, 2358872; 639476, 2358867; 639468, 2358865; 639458, 2358860; 639450, 2358853; 639444, 2358848; 639439, 2358843; 639432, 2358837; 639426, 2358833; 639418, 2358829; 639409, 2358826; 639402, 2358822; 639395, 2358822; 639380, 2358822; 639370, 2358822; 639364, 2358824; 639355, 2358827; 639346, 2358832; 639335, 2358837; 639322, 2358842; 639309, 2358846; 639301, 2358849; 639293, 2358852; 639280, 2358856; 639265, 2358862; 639264, 2358862; 639253, 2358863; 639249, 2358866; 639241, 2358869; 639240, 2358869; 639236, 2358869; 639235, 2358869; 639230, 2358868; 639223, 2358867; 639220, 2358867; 639214, 2358867; 639211, 2358867; 639207, 2358872; 639201, 2358877; 639194, 2358884; 639186, 2358891; 639177, 2358898; 639172, 2358900; 639167, 2358901; 639166, 2358902; 639166, 2358901; 639162, 2358900; 639161, 2358900; 639158, 2358897; 639154, 2358895; 639154, 2358894; 639151, 2358891; 639148, 2358888; 639148, 2358887; 639144, 2358883; 639142, 2358881; 639137, 2358881; 639134, 2358881; 639130, 2358884; 639129, 2358886; 639124, 2358894; 639120, 2358902; 639117, 2358909; 639113, 2358915; 639106, 2358924; 639102, 2358929; 639095, 2358933; 639089, 2358936; 639082, 2358938; 639076, 2358941; 639069, 2358945; 639063, 2358948; 639058, 2358953; return to starting point.

(ii) NOTE: Map 267 follows:

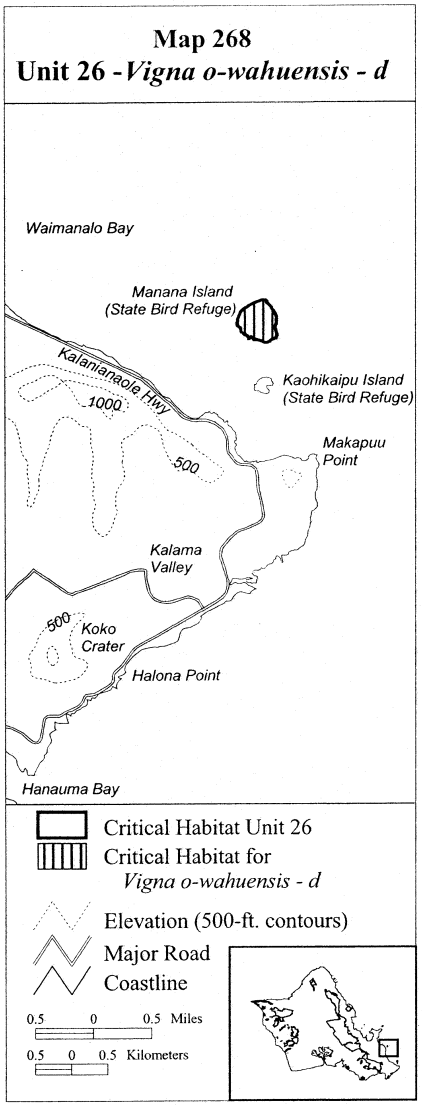


(268) Oahu 26—*Vigna o-wahuensis*—(27 ha; 66 ac)

(i) Unit consists of the following 214 boundary points: Start at 639041, 2358964; 639029, 2358969; 639024, 2358973; 639019, 2358980; 639016, 2358988; 639015, 2358994; 639015, 2358998; 639014, 2359006; 639013, 2359012; 639012, 2359023; 639012, 2359024; 639009, 2359029; 639006, 2359034; 639005, 2359035; 639002, 2359038; 638998, 2359043; 638997, 2359043; 638992, 2359048; 638982, 2359054; 638972, 2359062; 638965, 2359067; 638959, 2359072; 638956, 2359077; 638955, 2359084; 638955, 2359090; 638959, 2359100; 638961, 2359105; 638962, 2359109; 638963, 2359116; 638964, 2359125; 638964, 2359139; 638966, 2359158; 638968, 2359166; 638972, 2359175; 638975, 2359185; 638980, 2359202; 638985, 2359213; 638990, 2359226; 638995, 2359239; 639003, 2359252; 639009, 2359267; 639016, 2359280; 639027, 2359291; 639035, 2359299; 639044, 2359307; 639057, 2359317; 639065, 2359323; 639076, 2359330; 639088, 2359336; 639107, 2359344; 639114, 2359349; 639122, 2359355; 639129, 2359360; 639137, 2359367; 639153, 2359376; 639167, 2359385; 639180, 2359392; 639190, 2359397; 639202, 2359404; 639210, 2359408; 639229, 2359417; 639241, 2359421; 639260, 2359429; 639278, 2359435; 639302, 2359444; 639312, 2359448; 639327, 2359452; 639337, 2359453; 639356, 2359453; 639369, 2359451; 639377, 2359449; 639383, 2359446; 639387, 2359442; 639391, 2359438; 639395, 2359434; 639396, 2359431; 639397, 2359426; 639398, 2359420; 639398, 2359416; 639399, 2359411; 639400, 2359407; 639400, 2359406; 639404, 2359403; 639413, 2359394; 639422, 2359387; 639430, 2359381; 639441, 2359370; 639450, 2359359; 639456, 2359350; 639463, 2359340; 639468, 2359332; 639474, 2359317; 639487, 2359300; 639495, 2359288; 639502, 2359276; 639510, 2359263; 639516, 2359251; 639520, 2359243; 639523, 2359239; 639525, 2359235; 639528, 2359229; 639531, 2359221; 639532, 2359216; 639533, 2359206; 639535, 2359193; 639536, 2359179; 639536, 2359168; 639539, 2359153; 639539, 2359142; 639540, 2359134; 639540, 2359129; 639540, 2359124; 639538, 2359112; 639536, 2359106; 639533, 2359100; 639529, 2359093; 639529, 2359092; 639526, 2359080; 639524, 2359071; 639524, 2359070; 639524, 2359056; 639523, 2359038; 639524, 2359025; 639526, 2359010; 639531, 2358995; 639534, 2358978; 639537, 2358968; 639540, 2358958; 639542, 2358950; 639543, 2358943; 639543, 2358938; 639543, 2358932; 639542, 2358923; 639539, 2358916; 639539, 2358915; 639537, 2358908; 639532, 2358898; 639526, 2358892; 639520, 2358887; 639508, 2358880; 639498, 2358876; 639487, 2358872; 639476, 2358867; 639468, 2358865; 639458, 2358860; 639450, 2358853; 639444, 2358848; 639439, 2358843; 639432, 2358837; 639426, 2358833; 639418, 2358829; 639409, 2358826; 639402, 2358822; 639395, 2358822; 639380, 2358822; 639370, 2358822; 639364, 2358824; 639355, 2358827;

639346, 2358832; 639335, 2358837; 639322, 2358842; 639309, 2358846; 639301, 2358849; 639293, 2358852; 639280, 2358856; 639265, 2358862; 639264, 2358862; 639253, 2358863; 639249, 2358866; 639241, 2358869; 639240, 2358869; 639236, 2358869; 639235, 2358869; 639230, 2358868; 639223, 2358867; 639220, 2358867; 639214, 2358867; 639211, 2358867; 639207, 2358872; 639201, 2358877; 639194, 2358884; 639186, 2358891; 639177, 2358898; 639172, 2358900; 639167, 2358901; 639166, 2358902; 639166, 2358901; 639162, 2358900; 639161, 2358900; 639158, 2358897; 639154, 2358895; 639154, 2358894; 639151, 2358891; 639148, 2358888; 639148, 2358887; 639144, 2358883; 639142, 2358881; 639137, 2358881; 639134, 2358881; 639130, 2358884; 639129, 2358886; 639124, 2358894; 639120, 2358902; 639117, 2358909; 639113, 2358915; 639106, 2358924; 639102, 2358929; 639095, 2358933; 639089, 2358936; 639082, 2358938; 639076, 2358941; 639069, 2358945; 639063, 2358948; 639058, 2358953; return to starting point.

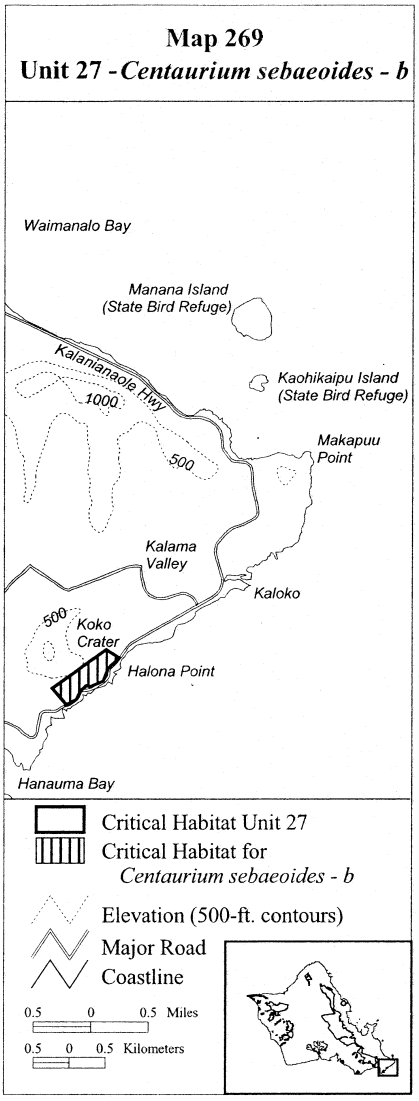
(ii) NOTE: Map 268 follows:



(269) Oahu 27—*Centaurium sebaeoides*—b (30 ha; 74 ac)

(i) Unit consists of the following 12 boundary points: Start at 636505, 2353431; 636303, 2353668; 637100, 2354241; 637297, 2354115; 637128, 2353956; 637052, 2353771; 636871, 2353692; 636811, 2353706; 636712, 2353621; 636657, 2353510; 636560, 2353454; 636508, 2353427; return to starting point.

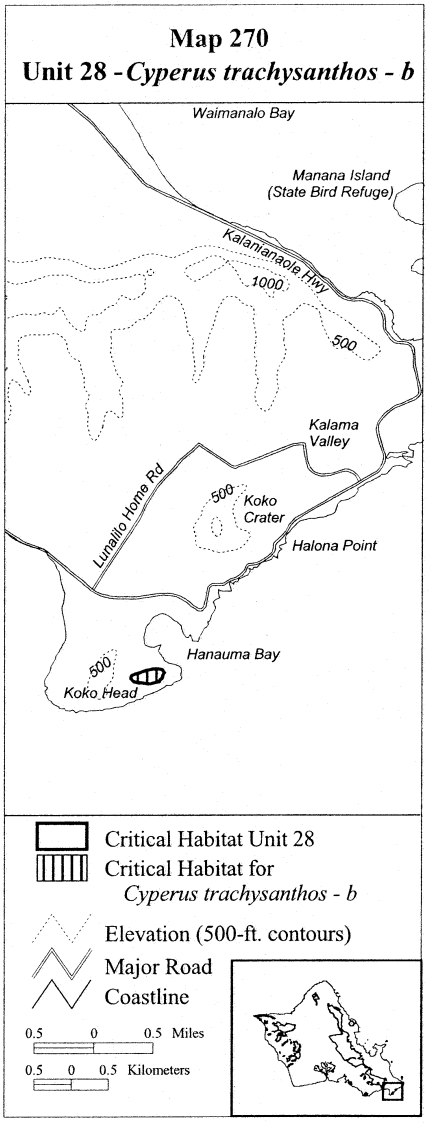
(ii) NOTE: Map 269 follows:



(270) Oahu 28—*Cyperus trachysanthos*—b (8 ha; 20 ac)

(i) Unit consists of the following 23 boundary points: Start at 635001, 2351956; 635110, 2351995; 635197, 2352022; 635282, 2352041; 635351, 2352039; 635434, 2352026; 635460, 2351985; 635438, 2351945; 635432, 2351917; 635414, 2351893; 635382, 2351869; 635338, 2351841; 635288, 2351826; 635247, 2351815; 635219, 2351815; 635158, 2351822; 635101, 2351828; 635053, 2351832; 634997, 2351852; 634971, 2351876; 634951, 2351893; 634949, 2351906; 634966, 2351939; return to starting point.

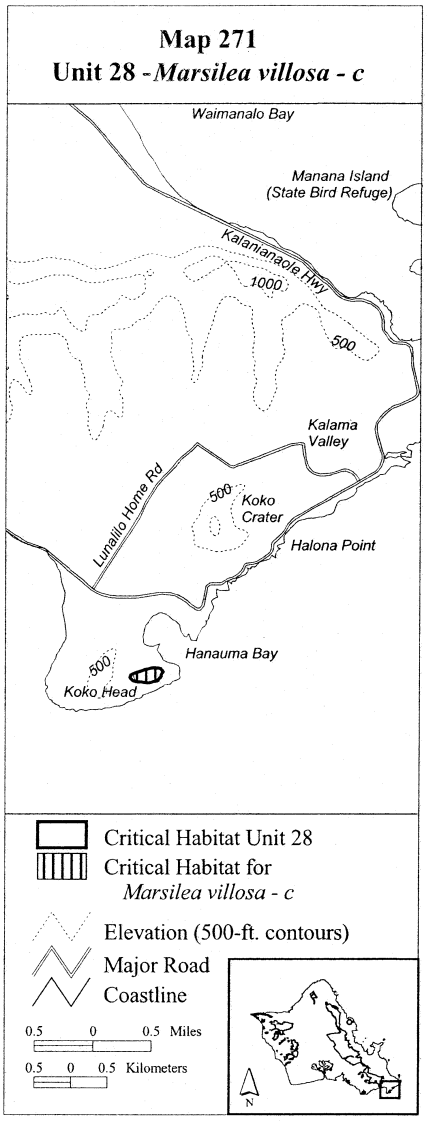
(ii) NOTE: Map 270 follows:



(271) Oahu 28—*Marsilea villosa*—c (7 ha; 18 ac)

(i) Unit consists of the following 14 boundary points: Start at 635006, 2351930; 635107, 2351989; 635178, 2352022; 635269, 2352038; 635357, 2352041; 635428, 2352038; 635441, 2351986; 635409, 2351898; 635383, 2351852; 635308, 2351830; 635246, 2351817; 635129, 2351826; 635035, 2351859; 635012, 2351898; return to starting point.

(ii) NOTE: Map 271 follows:

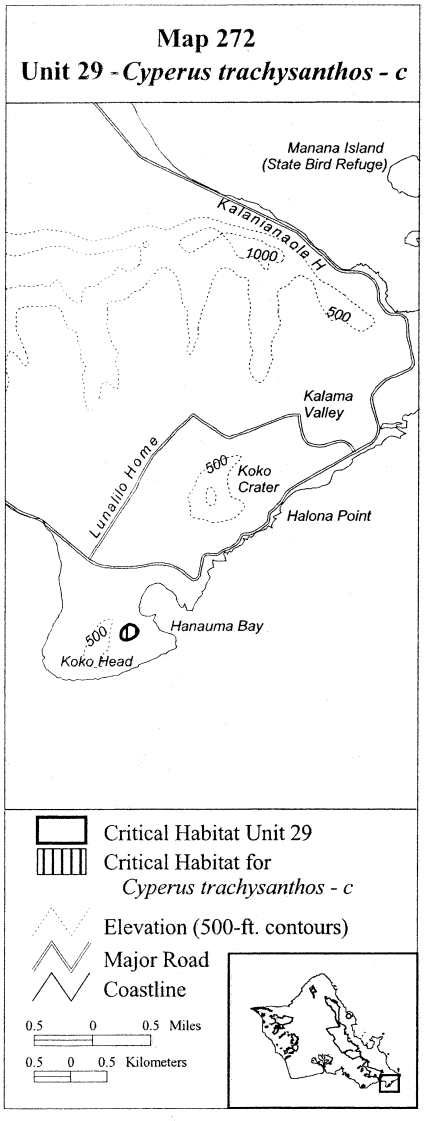


(272) Oahu 29—*Cyperus trachysanthos*—c (4 ha; 10 ac)

(i) Unit consists of the following 15 boundary points: Start at 634916, 2352187; 634932, 2352204; 634977, 2352241; 635034, 2352241; 635069, 2352232; 635108, 2352195; 635108, 2352137; 635086, 2352098; 635064, 2352067; 635021, 2352030; 634962, 2352004; 634921, 2352017; 634875, 2352043;

634873, 2352087; 634875, 2352135; return to starting point.

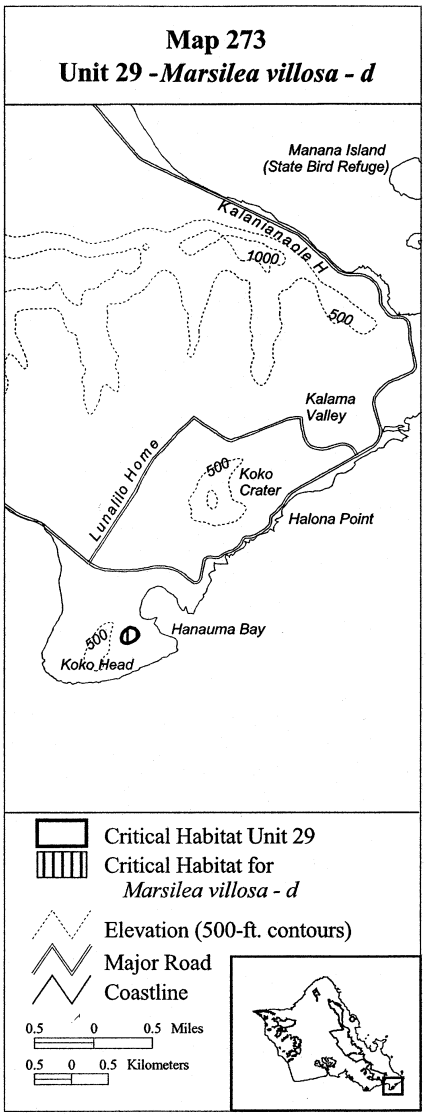
(ii) NOTE: Map 272 follows:



(273) Oahu 29—*Marsilea villosa*—d (5 ha; 11 ac)

(i) Unit consists of the following 13 boundary points: Start at 634980, 2352018; 634908, 2352018; 634873, 2352038; 634869, 2352090; 634886, 2352155; 634928, 2352207; 634999, 2352252; 635068, 2352236; 635116, 2352194; 635129, 2352152; 635123, 2352109; 635090, 2352064; 635035, 2352031; return to starting point.

(ii) NOTE: Map 273 follows:

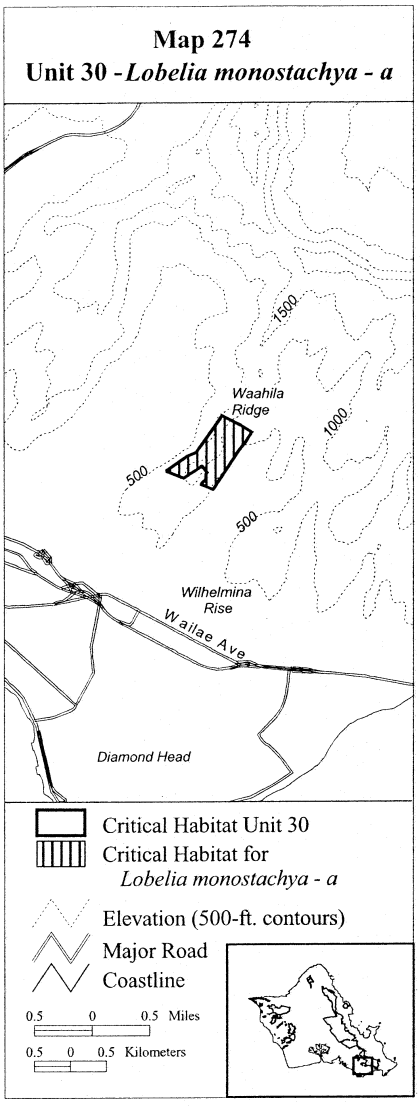


(274) Oahu 30—*Lobelia monostachya*—a (60 ha; 148 ac)

(i) Unit consists of the following 27 boundary points: Start at 624168,

2356522; 624519, 2356753; 624644, 2356802; 624645, 2356802; 624645, 2356803; 624648, 2356804; 624902, 2357165; 625018, 2357329; 625039, 2357383; 625337, 2357226; 625511, 2357122; 625420, 2356986; 625323, 2356853; 624917, 2356242; 624907, 2356227; 624732, 2356309; 624741, 2356330; 624795, 2356390; 624800, 2356466; 624811, 2356492; 624811, 2356493; 624734, 2356593; 624734, 2356594; 624733, 2356594; 624732, 2356594; 624709, 2356578; 624454, 2356409; return to starting point.

(ii) NOTE: Map 274 follows:



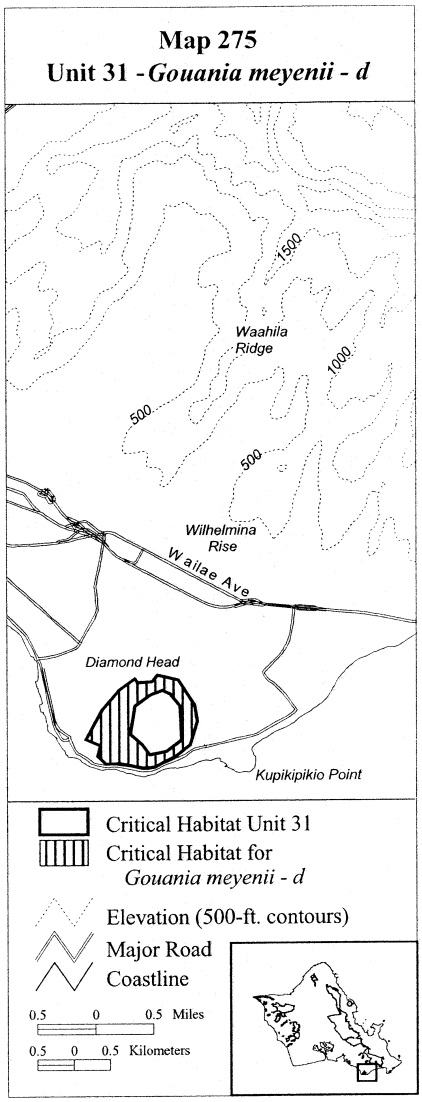
(275) Oahu 31—*Gouania meyenii*—d (116 ha; 286 ac)

(i) Unit consists of the following 22 boundary points: Start at 624109, 2351193; 624110, 2351193; 624344, 2351374; 624344, 2351375; 624322, 2351901; 624322, 2351902; 624173, 2352081; 624173, 2352082; 624049, 2352143; 624048, 2352143; 624047, 2352143; 623860, 2352077; 623615, 2351898; 623615, 2351897; 623614, 2351897; 623548,

2351462; 623548, 2351461; 623549, 2351460; 623733, 2351300; 623846, 2351144; 623846, 2351143; 623847, 2351143; return to starting point.

(ii) Excluding one area bounded by the following 22 points (59 ha, 146 ac): Start at 624110, 2351193; 624344, 2351374; 624344, 2351375; 624322, 2351901; 624322, 2351902; 624173, 2352081; 624173, 2352082; 624049, 2352143; 624048, 2352143; 624047, 2352143; 623860, 2352077; 623615, 2351898; 623615, 2351897; 623614, 2351897; 623548, 2351462; 623548, 2351461; 623549, 2351460; 623733, 2351300; 623846, 2351144; 623846, 2351143; 623847, 2351143; 624109, 2351193; return to starting point.

(iii) NOTE: Map 275 follows:



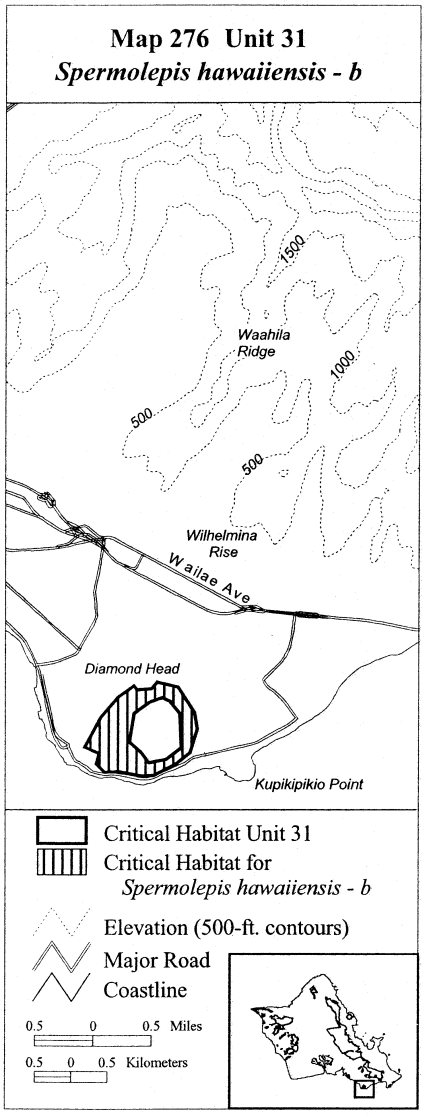
(276) Oahu 31—*Spermolepis hawaiiensis*—b (116 ha; 286 ac)

(i) Unit consists of the following 22 boundary points: Start at 624109, 2351193; 624110, 2351193; 624344, 2351374; 624344, 2351375; 624322, 2351901; 624322, 2351902; 624173, 2352081; 624173, 2352082; 624049, 2352143; 624048, 2352143; 624047, 2352143; 623860, 2352077; 623615, 2351898; 623615, 2351897; 623614, 2351897; 623548, 2351462; 623548, 2351461; 623549, 2351460;

623733, 2351300; 623846, 2351144; 623846, 2351143; 623847, 2351143; return to starting point.

(ii) Excluding one area bounded by the following 22 points (59ha, 146ac): Start at 624110, 2351193; 624344, 2351374; 624344, 2351375; 624322, 2351901; 624322, 2351902; 624173, 2352081; 624173, 2352082; 624049, 2352143; 624048, 2352143; 624047, 2352143; 623860, 2352077; 623615, 2351898; 623615, 2351897; 623614, 2351897; 623548, 2351462; 623548, 2351461; 623549, 2351460; 623733, 2351300; 623846, 2351144; 623846, 2351143; 623847, 2351143; 624109, 2351193; return to starting point.

(iii) NOTE: Map 276 follows:

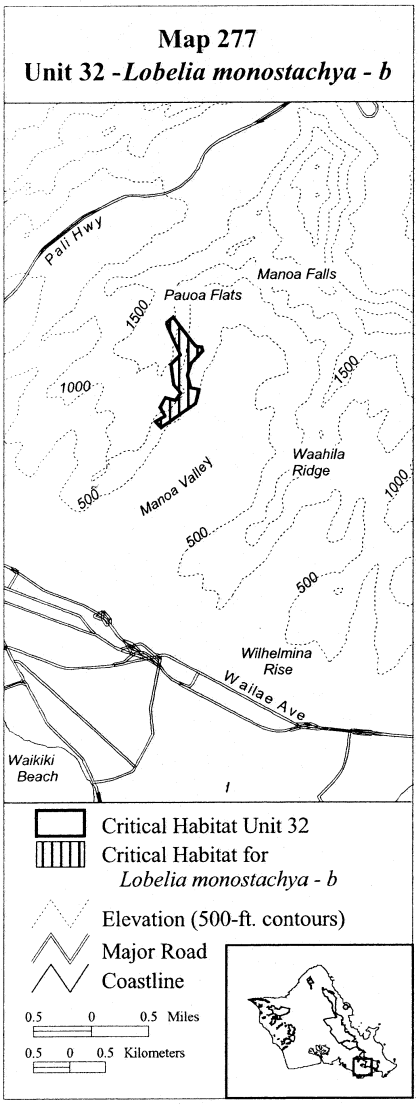


(277) Oahu 32—*Lobelia monostachya*—b (47 ha; 115 ac)

(i) Unit consists of the following 35 boundary points: Start at 623244, 2359774; 623355, 2359864; 623692, 2359434; 623717, 2359408; 623802, 2359404; 623814, 2359345; 623641, 2359143; 623578, 2358957; 623633, 2358768; 623759, 2358742; 623756, 2358730; 623701, 2358521; 623169, 2358151;

623083, 2358237; 623230, 2358329; 623230, 2358330; 623230, 2358331; 623154, 2358462; 623236, 2358610; 623388, 2358571; 623389, 2358571; 623390, 2358571; 623390, 2358572; 623478, 2358682; 623478, 2358683; 623453, 2358712; 623368, 2358817; 623353, 2358925; 623325, 2359134; 623469, 2359270; 623469, 2359271; 623469, 2359272; 623466, 2359279; 623468, 2359282; 623359, 2359518; return to starting point.

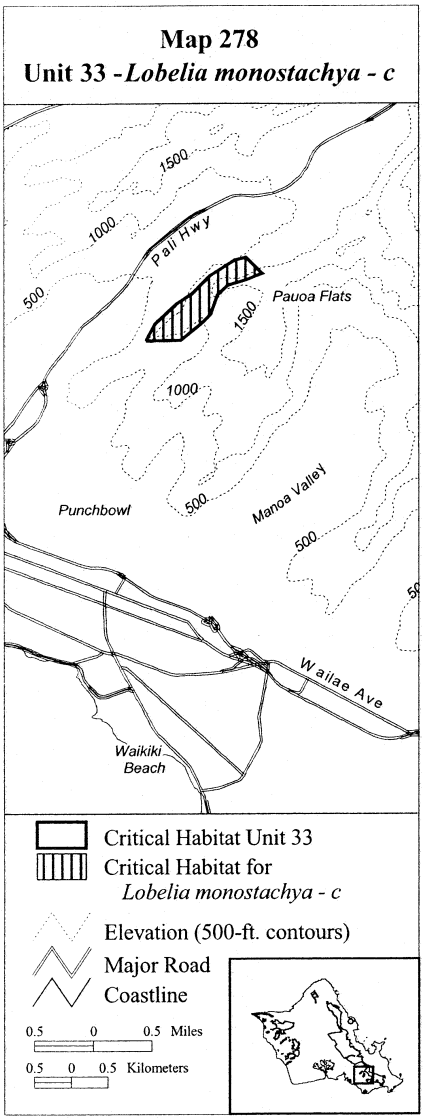
(ii) NOTE: Map 277 follows:



(278) Oahu 33—*Lobelia monostachya*—c (71 ha; 175 ac)

(i) Unit consists of the following 15 boundary points: Start at 621273, 2359524; 621269, 2359528; 621405, 2359780; 621744, 2360094; 621991, 2360258; 622260, 2360527; 622646, 2360763; 622811, 2360807; 623064, 2360560; 622811, 2360460; 622539, 2360384; 622376, 2360243; 622273, 2359934; 622138, 2359803; 621801, 2359537; return to starting point.

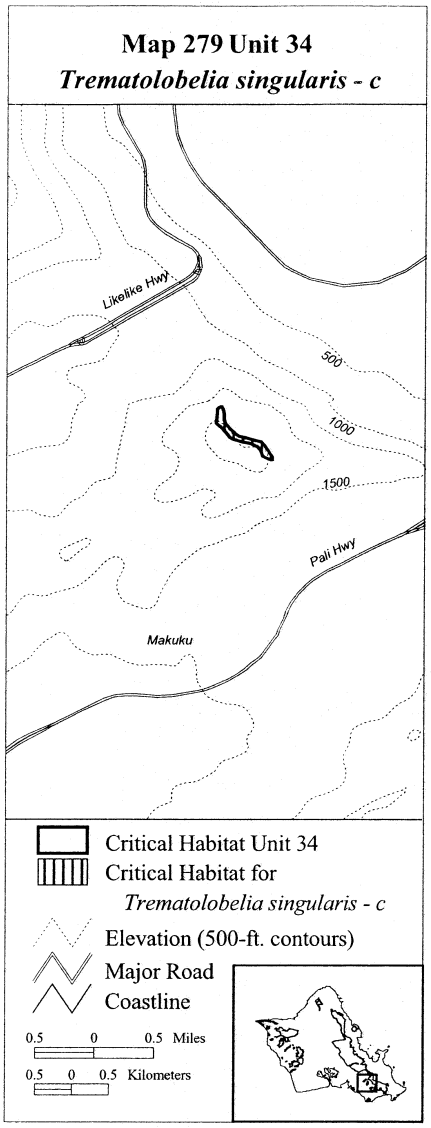
(ii) NOTE: Map 278 follows:



(279) Oahu 34—*Trematolobelia singularis*—c (2 ha; 5 ac)

(i) Unit consists of the following 32 boundary points: Start at 623343, 2363728; 623355, 2363728; 623364, 2363711; 623372, 2363677; 623371, 2363634; 623385, 2363607; 623414, 2363575; 623451, 2363542; 623476, 2363526; 623521, 2363513; 623563, 2363503; 623622, 2363488; 623649, 2363460; 623683, 2363405; 623700, 2363384; 623701, 2363365; 623686, 2363363; 623656, 2363376; 623636, 2363388; 623618, 2363424; 623600, 2363454; 623552, 2363477; 623493, 2363486; 623428, 2363505; 623409, 2363516; 623380, 2363554; 623357, 2363581; 623338, 2363598; 623319, 2363613; 623323, 2363648; 623326, 2363680; 623327, 2363707; return to starting point.

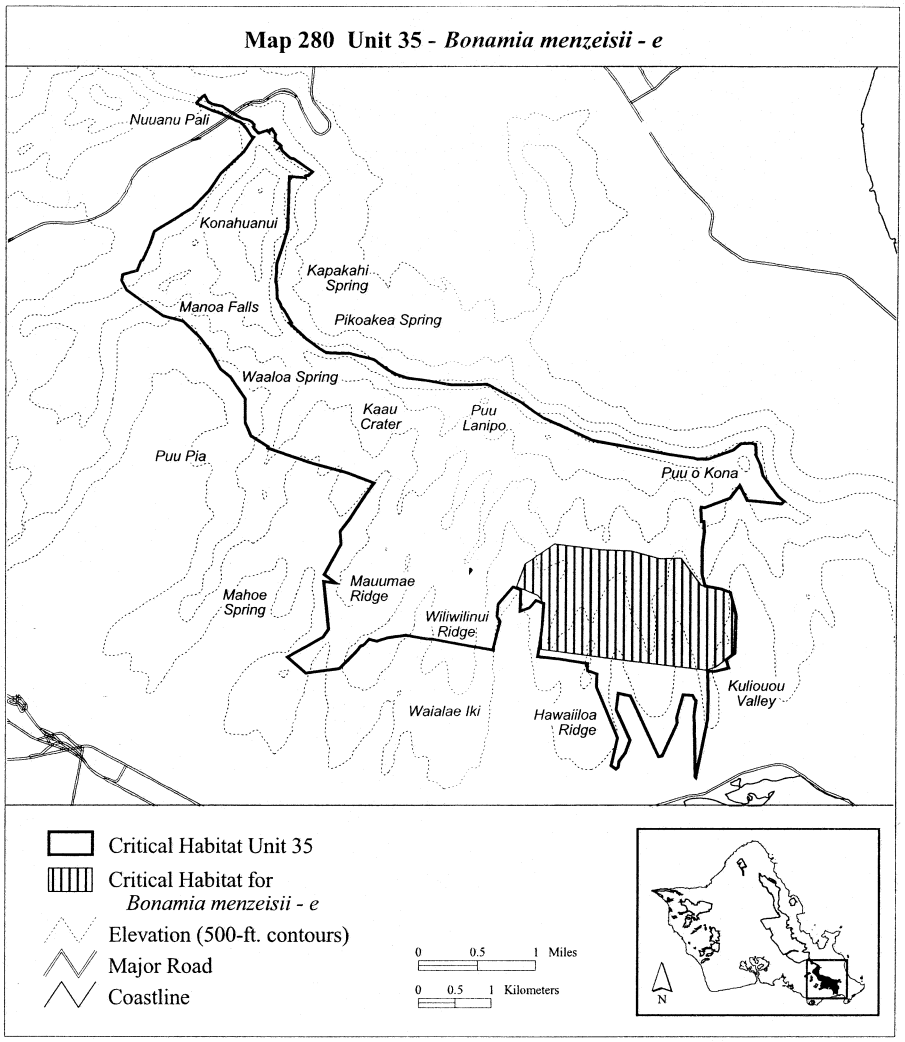
(ii) NOTE: Map 279 follows:



(280) Oahu 35—*Bonamia menziesii*—e (374 ha; 923 ac)

(i) Unit consists of the following 18 boundary points: Start at 629086, 2356780; 629201, 2357084; 629606, 2357366; 630257, 2357286; 630655, 2357272; 631038, 2357163; 631327, 2357170; 631609, 2356794; 631877, 2356751; 632000, 2356700; 632072, 2356404; 632058, 2355876; 631812, 2355681; 631674, 2355645; 630640, 2355768; 629404, 2355928; 629462, 2356549; 629375, 2356657; return to starting point.

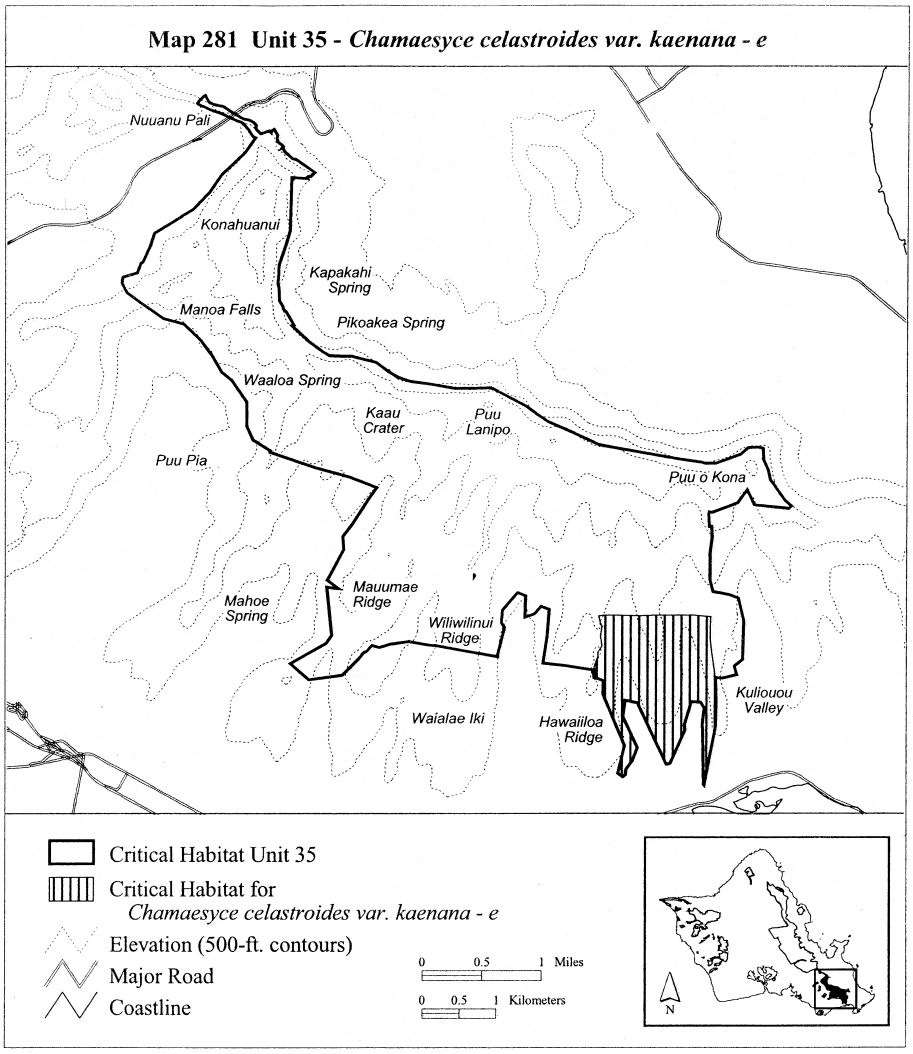
(ii) NOTE: Map 280 follows:



(281) Oahu 35—*Chamaesyce celastroides var. kaenana*—e (238 ha; 588 ac)

(i) Unit consists of the following 70 boundary points: Start at 630069, 2355613; 630055, 2355683; 630069, 2355782; 630115, 2355917; 630117, 2355972; 630168, 2356052; 630166, 2356126; 630151, 2356177; 630170, 2356314; 630142, 2356382; 630132, 2356461; 630142, 2356466; 630187, 2356468; 630387, 2356468; 630650, 2356466; 630903, 2356468; 631279, 2356468; 631394, 2356468; 631628, 2356449; 631621, 2356331; 631623, 2356148; 631638, 2355948; 631662, 2355818; 631694, 2355602; 631693, 2355601; 631693, 2355600; 631701, 2355280; 631697, 2354977; 631536, 2354177; 631533, 2354184; 631525, 2354596; 631529, 2354705; 631522, 2354734; 631518, 2354916; 631517, 2354919; 631511, 2355000; 631542, 2355222; 631516, 2355248; 631493, 2355297; 631363, 2355306; 631277, 2355000; 631285, 2354918; 631284, 2354916; 631283, 2354916; 631081, 2354472; 631034, 2354467; 630645, 2355292; 630645, 2355293; 630644, 2355293; 630484, 2355324; 630483, 2355324; 630482, 2355323; 630455, 2355102; 630455, 2355101; 630642, 2354688; 630575, 2354506; 630566, 2354490; 630493, 2354399; 630486, 2354322; 630453, 2354295; 630390, 2354343; 630473, 2354715; 630473, 2354716; 630187, 2355415; 630193, 2355589; 630102, 2355623; 630101, 2355624; 630101, 2355625; 630100, 2355625; 630099, 2355625; return to starting point.

(ii) NOTE: Map 281 follows:

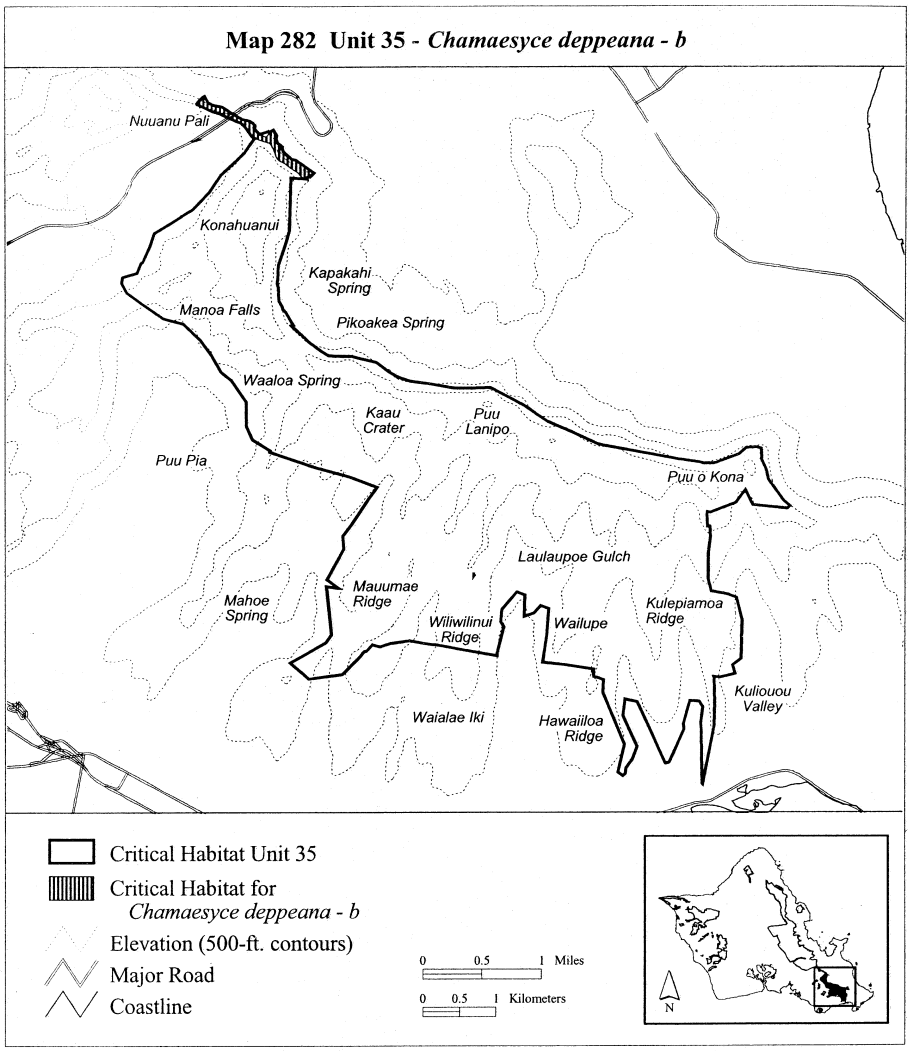


(282) Oahu 35—*Chamaesyce deppeana*—b (19 ha; 47 ac)

(i) Unit consists of the following 71 boundary points: Start at 624710, 2363371; 624704, 2363385; 624721, 2363406; 624754, 2363442; 624783, 2363468; 624809, 2363480; 624859, 2363397; 624925, 2363364; 624987, 2363347; 625052, 2363337; 625116, 2363295; 625176, 2363254; 625290, 2363182; 625335, 2363163; 625376, 2363161; 625417, 2363145; 625460, 2363118; 625486, 2363082; 625483, 2363045; 625510, 2363008; 625547, 2362971; 625588, 2362949; 625624, 2362933; 625650, 2362939; 625665, 2362968; 625690, 2362985; 625703, 2363013; 625729, 2363029; 625730, 2363028; 625777, 2362945; 625776, 2362902; 625784, 2362858; 625829, 2362823; 625853, 2362797; 625843, 2362776; 625853, 2362787; 625872, 2362725; 625896, 2362687; 625924, 2362659; 625955, 2362641; 625994, 2362628; 626024, 2362620; 626028, 2362620; 626279, 2362444; 626232, 2362397; 626194, 2362389; 626136, 2362372; 626088, 2362415;

626075, 2362435; 626062, 2362444; 625972, 2362510; 625888, 2362572; 625805, 2362613; 625771, 2362659; 625752, 2362715; 625733, 2362770; 625738, 2362766; 625724, 2362780; 625698, 2362830; 625671, 2362852; 625595, 2362871; 625540, 2362897; 625464, 2362918; 625438, 2362942; 625390, 2363018; 625328, 2363095; 625293, 2363123; 625231, 2363145; 625131, 2363190; 625004, 2363245; 624904, 2363282; return to starting point.

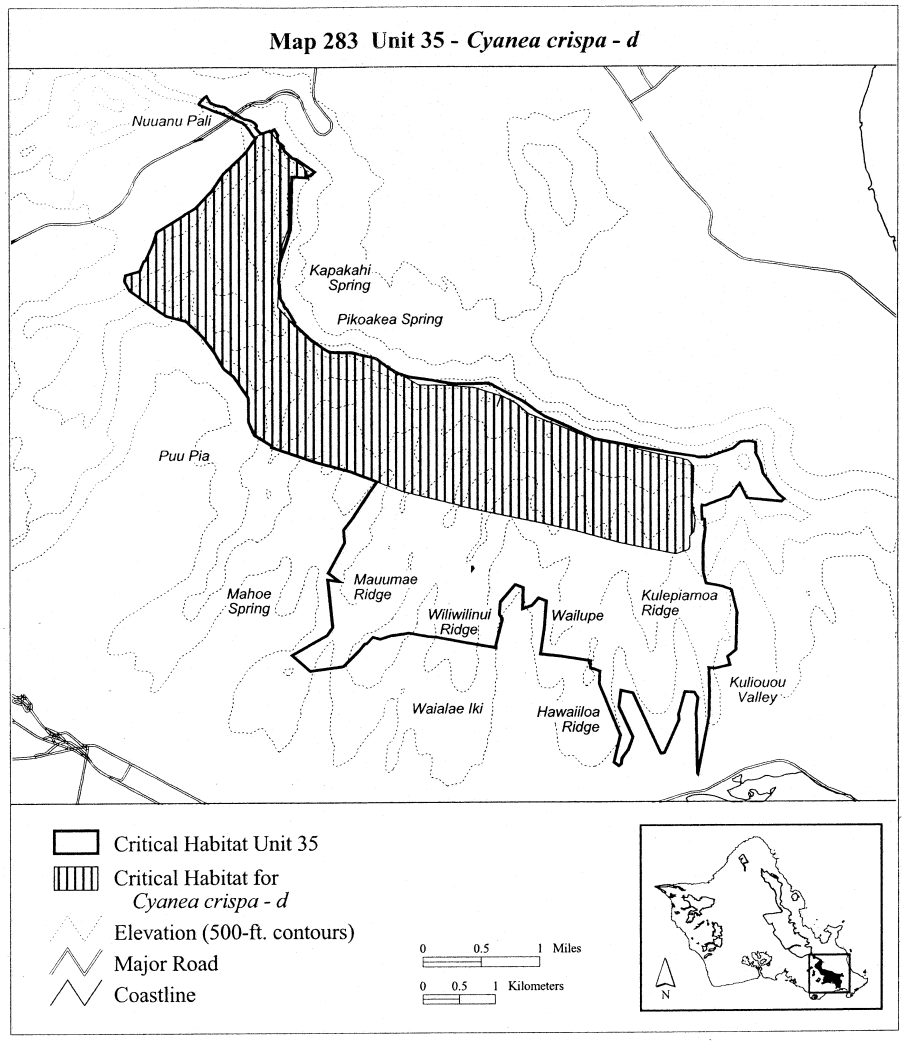
(ii) NOTE: Map 282 follows:



(283) Oahu 35—*Cyanea crispa*—d (1,336 ha; 3,301 ac)

(i) Unit consists of the following 98 boundary points: Start at 623944, 2361231; 623966, 2361243; 624062, 2361457; 624128, 2361633; 624397, 2361796; 624487, 2361853; 624497, 2361858; 624498, 2361858; 624502, 2361863; 624648, 2361955; 624873, 2362180; 625030, 2362416; 625040, 2362426; 625350, 2362723; 625502, 2362941; 625666, 2363011; 625734, 2362935; 625866, 2362736; 625998, 2362617; 626117, 2362524; 626170, 2362445; 626184, 2362366; 625959, 2362379; 625945, 2361955; 625945, 2361730; 625839, 2361465; 625800, 2361201; 625791, 2361007; 625783, 2360976; 625783, 2360975; 625789, 2360950; 625773, 2360605; 625998, 2360354; 626237, 2360115; 626475, 2359983; 626887, 2359949; 627102, 2359895; 627121, 2359883; 627282, 2359763; 627395, 2359699; 627408, 2359690; 627411, 2359689; 627473, 2359654; 627708, 2359529; 628098, 2359518; 628484, 2359486; 628840, 2359373; 628785, 2359224; 628843, 2359377; 629050, 2359268; 629218, 2359127; 629499, 2359010; 629714, 2358932; 629847, 2358866; 630108, 2358784; 630292, 2358725; 630510, 2358694; 630725, 2358631; 630998, 2358573; 631279, 2358518; 631412, 2358483; 631482, 2358393; 631478, 2358089; 631466, 2357898; 631506, 2357656; 631482, 2357496; 631431, 2357429; 631431, 2357293; 631412, 2357250; 631248, 2357195; 630826, 2357273; 630491, 2357343; 629874, 2357511; 629343, 2357636; 628949, 2357714; 628266, 2357862; 628269, 2357871; 627485, 2358059; 626771, 2358332; 626283, 2358472; 625686, 2358675; 625690, 2358695; 625455, 2358843; 625373, 2359027; 625376, 2359349; 625164, 2359653; 625032, 2359759; 624900, 2359996; 624754, 2360181; 624529, 2360406; 624245, 2360483; 623937, 2360701; 623750, 2360834; 623679, 2360963; 623691, 2361043; 623890, 2361096; 623891, 2361096; 623891, 2361097; return to starting point.

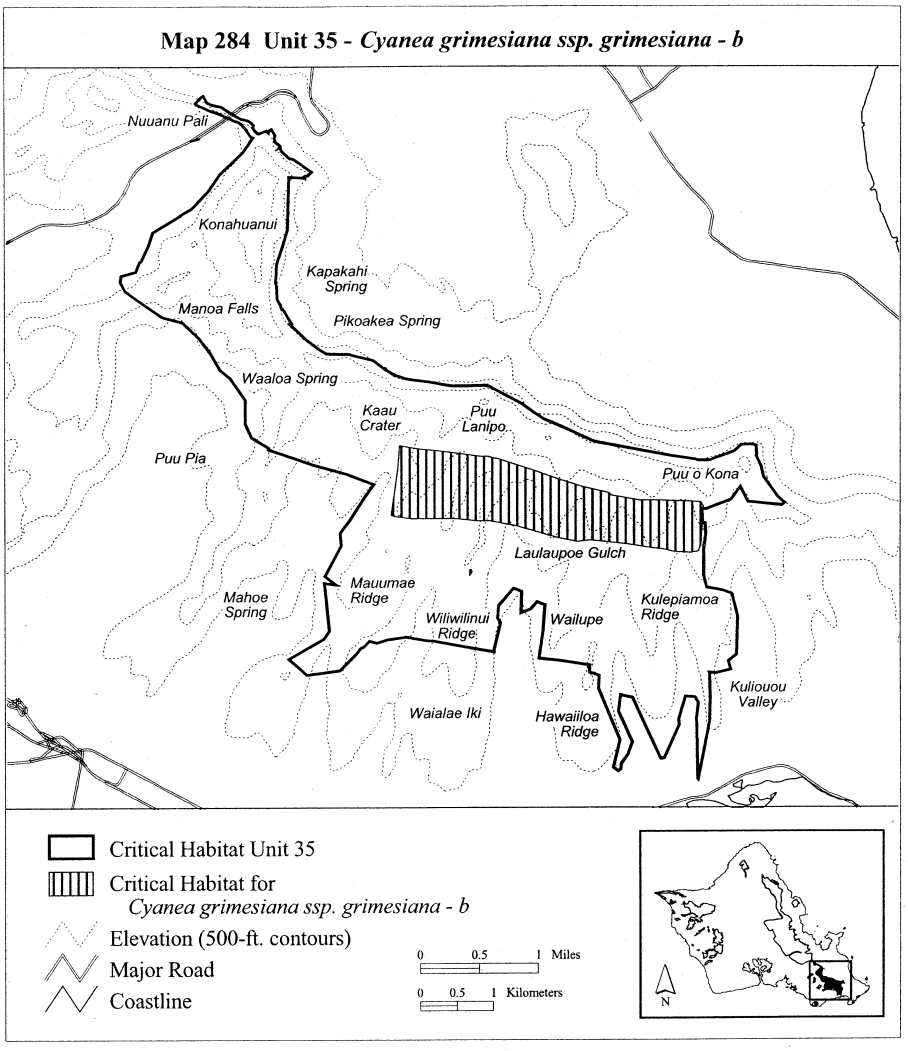
(ii) NOTE: Map 283 follows:



(284) Oahu 35—*Cyanea grimesiana* ssp. *grimesiana*—b (329 ha; 813 ac)

(i) Unit consists of the following 43 boundary points: Start at 627482, 2358725; 627502, 2358723; 627743, 2358682; 628029, 2358650; 628580, 2358576; 628682, 2358576; 628842, 2358539; 628841, 2358537; 629315, 2358380; 629642, 2358266; 629985, 2358159; 630320, 2358086; 630369, 2358045; 630745, 2357984; 631011, 2357980; 631198, 2357972; 631415, 2357968; 631582, 2357955; 631611, 2357898; 631595, 2357837; 631599, 2357682; 631587, 2357502; 631574, 2357371; 631542, 2357285; 631439, 2357265; 631223, 2357277; 631080, 2357310; 630888, 2357330; 630602, 2357379; 630214, 2357420; 630067, 2357432; 629900, 2357412; 629614, 2357473; 629078, 2357628; 628693, 2357706; 628690, 2357694; 628547, 2357698; 628241, 2357731; 627906, 2357732; 627645, 2357732; 627428, 2357760; 627367, 2357780; 627450, 2358384; return to starting point.

(ii) NOTE: Map 284 follows:

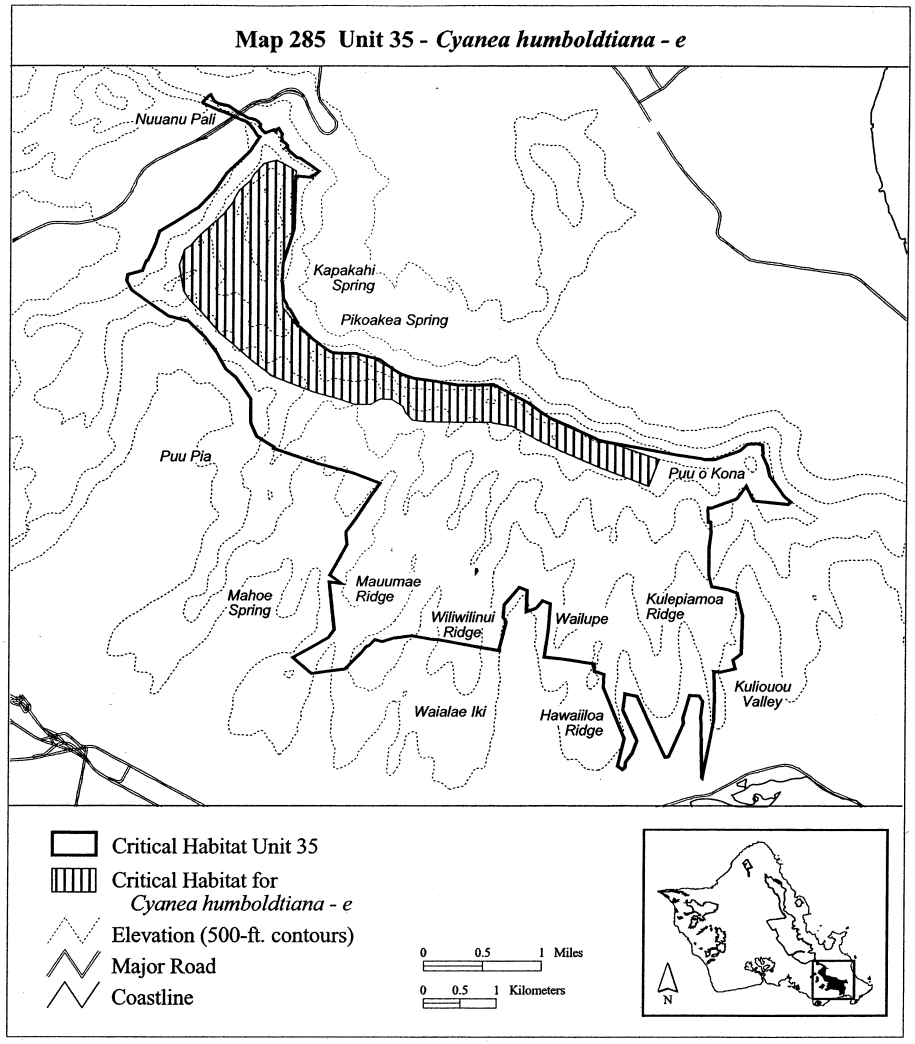


(285) Oahu 35—*Cyanea humboltiana*—e (539 ha; 1,333 ac)

(i) Unit consists of the following 96 boundary points: Start at 625951, 2361660; 625886, 2361457; 625799, 2361195; 625784, 2360979; 625783, 2360976; 625783, 2360975; 625784, 2360974; 625779, 2360900; 625799, 2360606; 625965, 2360402; 626198, 2360174; 626389, 2360033; 626480, 2359983; 626479, 2359983; 626675, 2359975; 626782, 2359975; 626986, 2359924; 627140, 2359829; 627393, 2359697; 627405, 2359693; 627408, 2359690; 627415, 2359689; 627568, 2359634; 627871, 2359597; 628136, 2359543; 628188, 2359542; 628197, 2359540; 628198, 2359540; 628255, 2359541; 628348, 2359539; 628418, 2359542; 628664, 2359545; 628664, 2359537; 628705, 2359530; 628764, 2359501; 629131, 2359305; 629261, 2359211; 629448, 2359086; 629801, 2358933; 630060, 2358809; 630083, 2358796; 630084, 2358796; 630088, 2358795; 630104, 2358787; 630273, 2358739; 630294, 2358740; 630929, 2358526; 630785, 2358154;

630110, 2358417; 629634, 2358615; 629593, 2358630; 629241, 2358804; 628925, 2358974; 628655, 2359024; 628655, 2359028; 628240, 2359032; 627767, 2359036; 627559, 2359057; 627468, 2359169; 627431, 2359244; 627285, 2359340; 627119, 2359352; 626999, 2359273; 626783, 2359277; 626546, 2359356; 626219, 2359447; 625982, 2359539; 625680, 2359657; 625675, 2359655; 625662, 2359664; 625654, 2359667; 625657, 2359669; 625351, 2359896; 625110, 2360116; 624957, 2360240; 624824, 2360394; 624674, 2360560; 624537, 2360693; 624454, 2360826; 624417, 2361017; 624392, 2361170; 624463, 2361382; 624546, 2361436; 624670, 2361573; 624795, 2361685; 624990, 2361855; 625102, 2362000; 625201, 2362179; 625347, 2362308; 625405, 2362407; 625550, 2362557; 625704, 2362598; 625870, 2362511; 625974, 2362449; 625970, 2362364; 625969, 2362363; return to starting point.

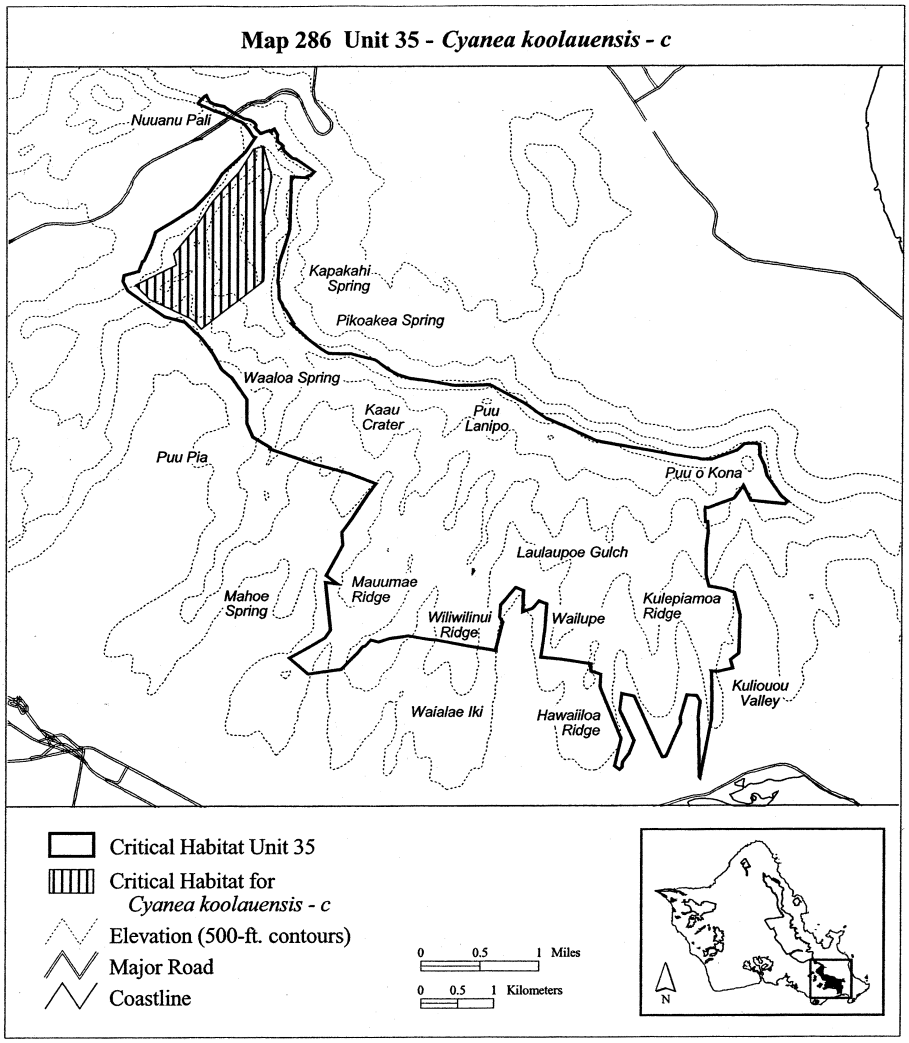
(ii) NOTE: Map 285 follows:



(286) Oahu 35—*Cyanea koolauensis*—c (209 ha; 517 ac)

(i) Unit consists of the following 16 boundary points: Start at 623850, 2360912; 624406, 2361184; 624371, 2361338; 624678, 2361692; 624891, 2362035; 625258, 2362438; 625459, 2362757; 625589, 2362792; 625695, 2362378; 625601, 2361834; 625601, 2361113; 625594, 2360964; 624749, 2360309; 624669, 2360404; 624595, 2360462; 624039, 2360722; return to starting point.

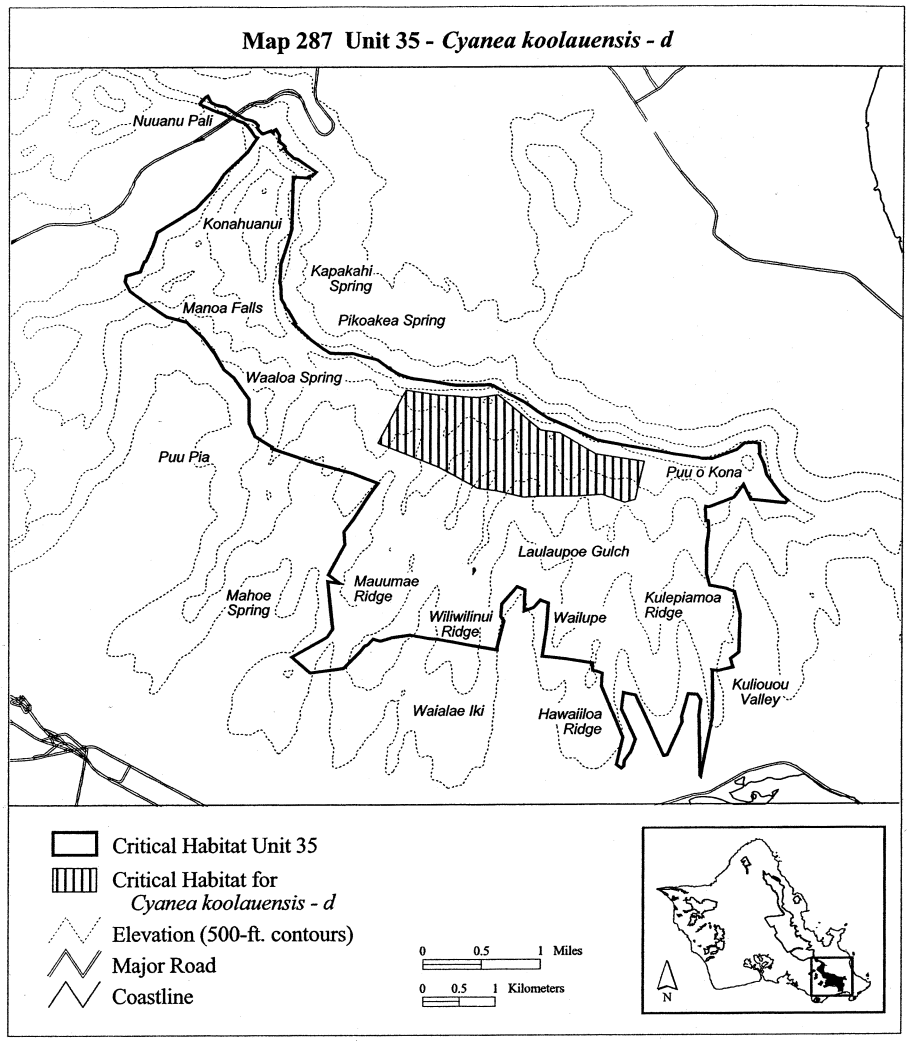
(ii) NOTE: Map 286 follows:



(287) Oahu 35—*Cyanea koolauensis*—d (312 ha; 770 ac)

(i) Unit consists of the following 18 boundary points: Start at 627127, 2358746; 627509, 2359475; 627960, 2359406; 628481, 2359371; 628776, 2359406; 629349, 2358920; 629609, 2358885; 630095, 2358590; 630755, 2358486; 630633, 2357965; 630494, 2357930; 630182, 2358035; 629835, 2358017; 629349, 2358017; 629123, 2358000; 628759, 2358087; 628498, 2358121; 627960, 2358416; return to starting point.

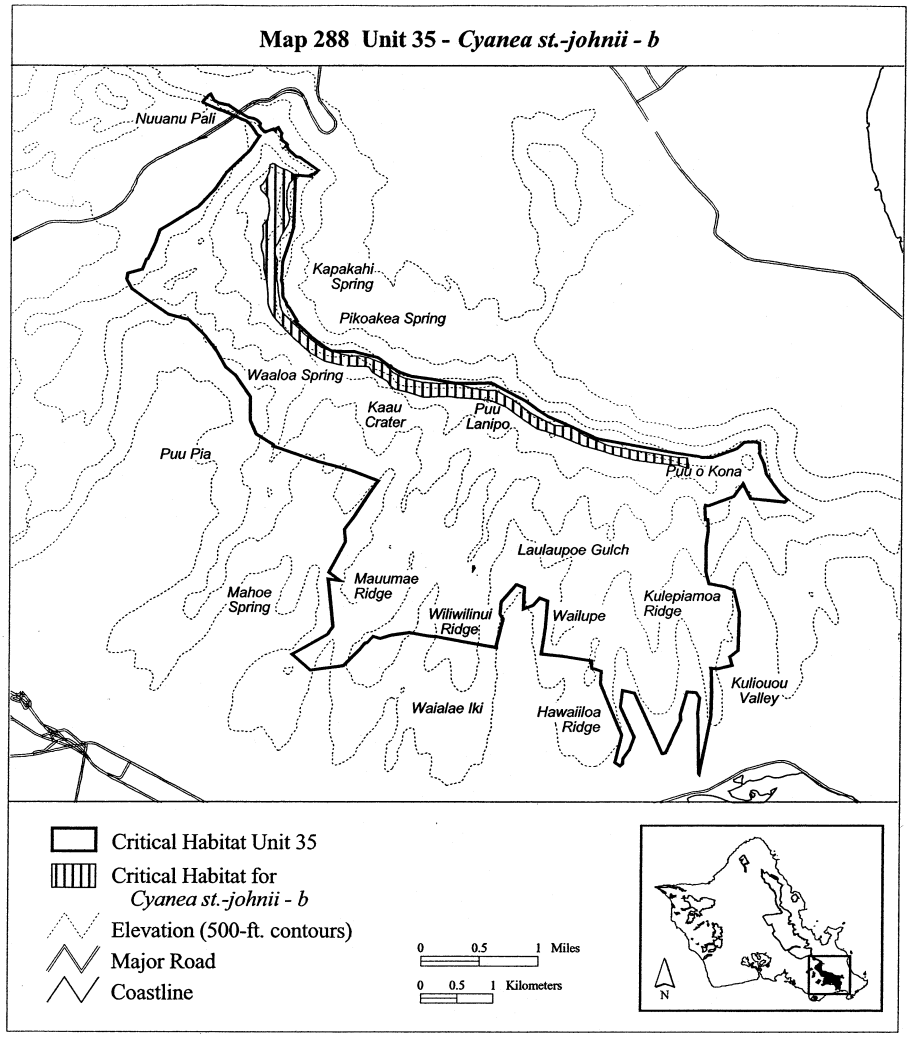
(ii) NOTE: Map 287 follows:



(288) Oahu 35—*Cyanea st.-johnii*—b (135 ha; 333 ac)

(i) Unit consists of the following 130 boundary points: Start at 631368, 2358369; 631225, 2358417; 630942, 2358443; 630644, 2358485; 630309, 2358568; 630157, 2358621; 629922, 2358689; 629644, 2358804; 629414, 2358882; 629294, 2358919; 629105, 2359045; 628875, 2359217; 628671, 2359301; 628498, 2359322; 628211, 2359343; 628211, 2359338; 628130, 2359359; 627971, 2359359; 627800, 2359353; 627739, 2359353; 627541, 2359413; 627345, 2359461; 627279, 2359509; 627240, 2359564; 627120, 2359633; 627042, 2359681; 626985, 2359765; 626894, 2359771; 626654, 2359774; 626368, 2359843; 626188, 2359951; 625986, 2360138; 625854, 2360255; 625791, 2360325; 625791, 2360324; 625782, 2360335; 625770, 2360348; 625770, 2360349; 625743, 2360381; 625674, 2360463; 625620, 2360580; 625604, 2360637; 625601, 2360766; 625589, 2360905; 625550, 2361094; 625550, 2361199; 625544, 2361295; 625517, 2361365; 625511, 2361434; 625535, 2361527; 625535, 2361575; 625529, 2361692; 625598, 2361783; 625617, 2361903; 625605, 2362059; 625604, 2362059; 625556, 2362125; 625505, 2362177; 625493, 2362228; 625532, 2362258; 625562, 2362309; 625607, 2362414; 625623, 2362519; 625662, 2362540; 625689, 2362525; 625755, 2362489; 625848, 2362450; 625929, 2362408; 625956, 2362378; 625935, 2362312; 625887, 2362264; 625875, 2362219; 625857, 2362161; 625854, 2362080; 625851, 2362080; 625857, 2361951; 625881, 2361867; 625896, 2361774; 625869, 2361698; 625830, 2361629; 625773, 2361539; 625737, 2361449; 625698, 2361392; 625701, 2361298; 625731, 2361220; 625728, 2361151; 625719, 2361061; 625722, 2361004; 625722, 2360947; 625737, 2360896; 625749, 2360781; 625764, 2360664; 625764, 2360607; 625788, 2360550; 625815, 2360502; 625815, 2360499; 625875, 2360436; 626007, 2360306; 626104, 2360210; 626209, 2360129; 626338, 2360033; 626437, 2359991; 626636, 2359930; 626708, 2359918; 626744, 2359906; 626786, 2359912; 626867, 2359912; 626973, 2359891; 627201, 2359801; 627324, 2359681; 627466, 2359615; 627721, 2359552; 628004, 2359530; 628189, 2359539; 628189, 2359542; 628191, 2359541; 628409, 2359474; 628618, 2359442; 628734, 2359448; 628922, 2359343; 629000, 2359296; 629210, 2359134; 629398, 2359034; 629534, 2358966; 629754, 2358945; 629932, 2358830; 630262, 2358684; 630670, 2358610; 631214, 2358526; 631349, 2358518; return to starting point.

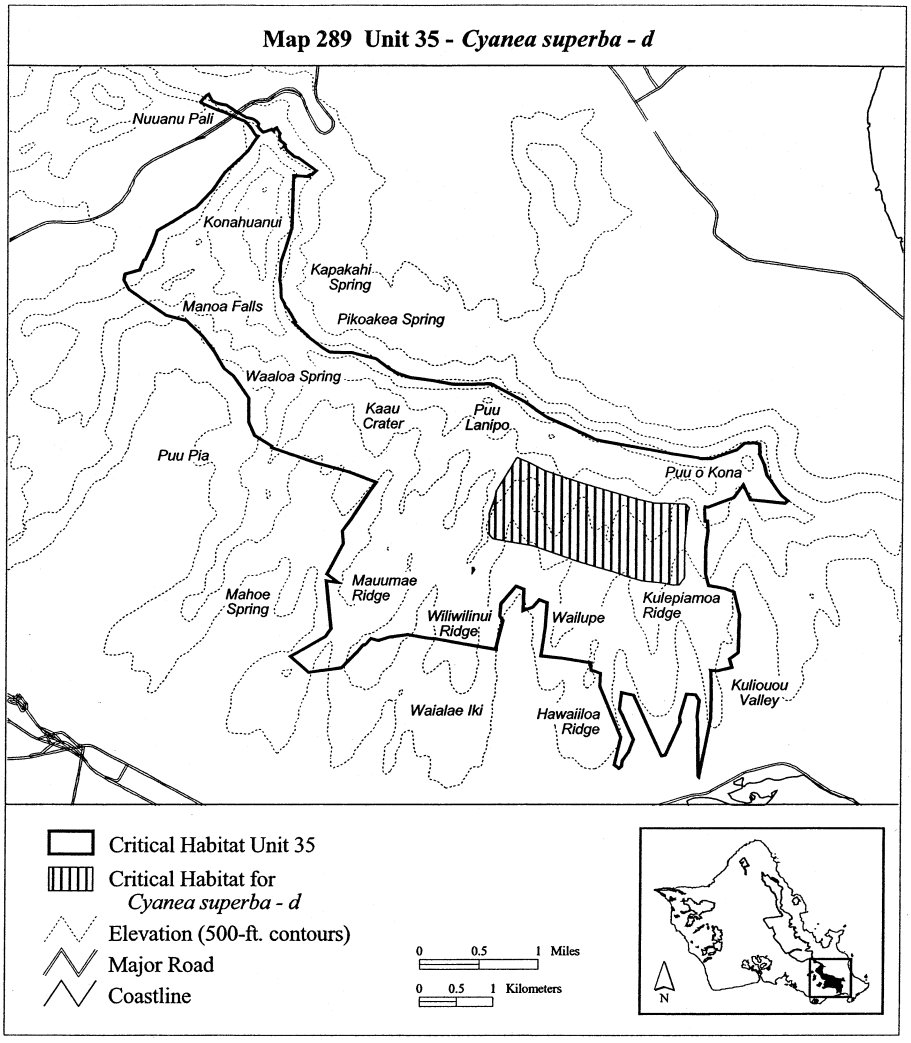
(ii) NOTE: Map 288 follows:



(289) Oahu 35—*Cyanea superba*—d (282 ha; 697 ac)

(i) Unit consists of the following 38 boundary points: Start at 629040, 2358537; 629196, 2358469; 629405, 2358358; 629686, 2358265; 629978, 2358173; 630357, 2358061; 630692, 2357969; 630926, 2357915; 631052, 2357911; 631241, 2357906; 631348, 2357901; 631387, 2357847; 631373, 2357799; 631363, 2357706; 631343, 2357517; 631329, 2357327; 631329, 2357114; 631329, 2356890; 631261, 2356798; 631169, 2356793; 631023, 2356822; 630911, 2356837; 630765, 2356846; 630561, 2356905; 630372, 2356968; 630109, 2357046; 629866, 2357118; 629536, 2357235; 629254, 2357332; 628943, 2357386; 628714, 2357425; 628666, 2357488; 628666, 2357585; 628666, 2357687; 628666, 2357770; 628695, 2357852; 628744, 2357979; 628763, 2358081; return to starting point.

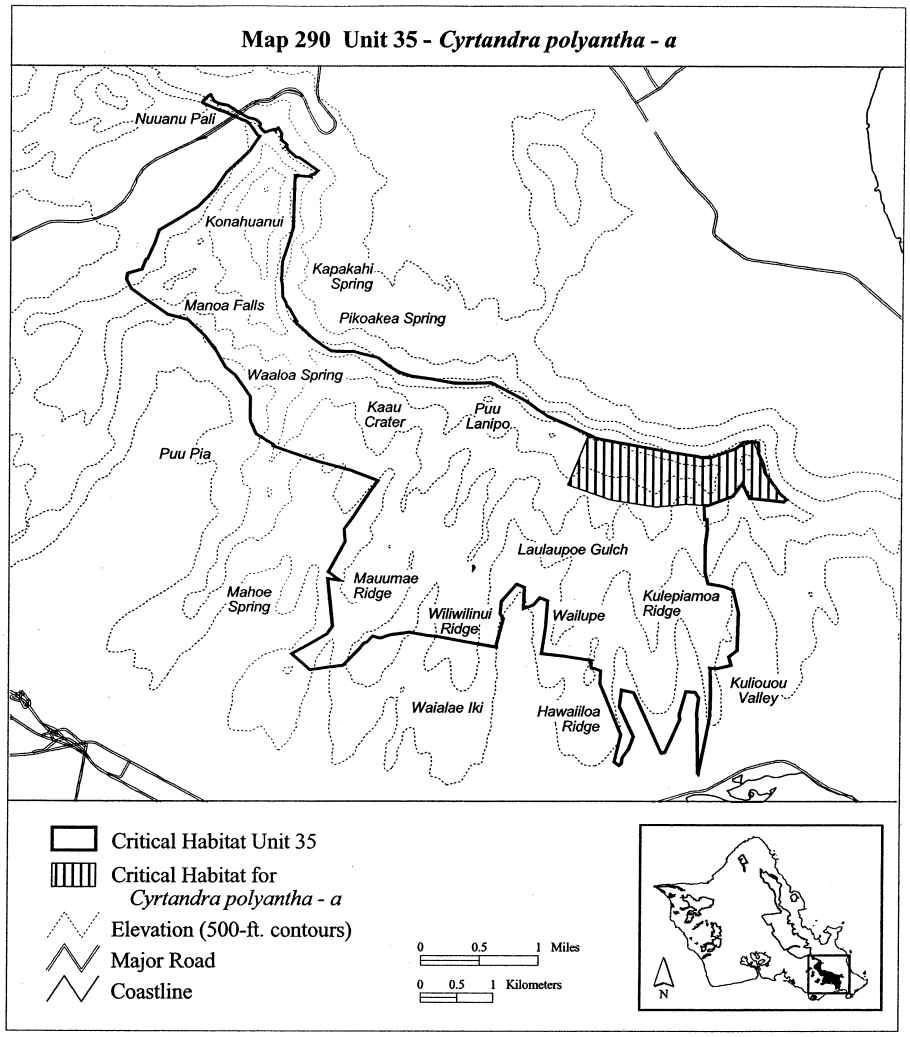
(ii) NOTE: Map 289 follows:



(290) Oahu 35—*Cyrtandra polyantha*—a (190 ha; 469 ac)

(i) Unit consists of the following 21 boundary points: Start at 632692, 2357913; 632214, 2357962; 632118, 2358162; 631987, 2357985; 631642, 2357861; 631352, 2357878; 630945, 2357838; 630320, 2357935; 629723, 2358144; 629995, 2358800; 630879, 2358635; 631175, 2358587; 631506, 2358538; 631537, 2358522; 631694, 2358524; 632037, 2358651; 632266, 2358737; 632397, 2358444; 632436, 2358300; 632639, 2358025; 632725, 2357947; return to starting point.

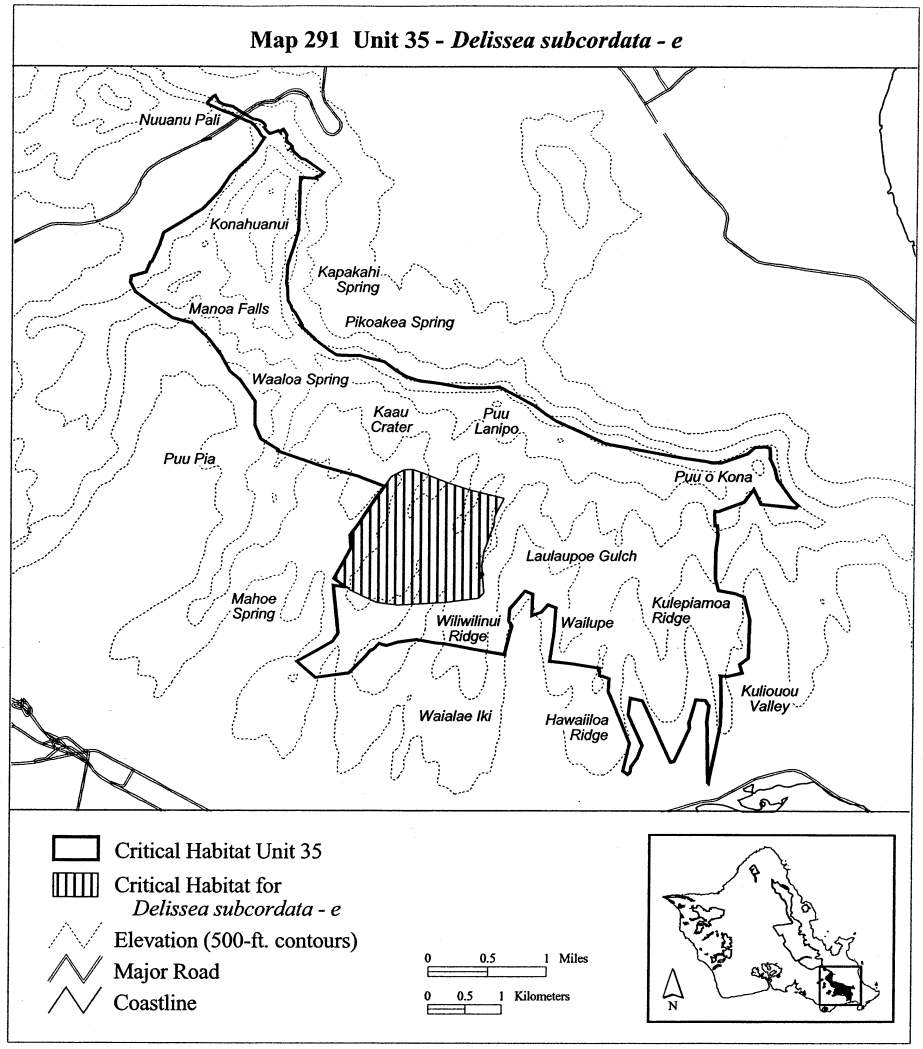
(ii) NOTE: Map 290 follows:



(291) Oahu 35—*Delissea subcordata*—e (292 ha; 721 ac)

(i) Unit consists of the following 25 boundary points: Start at 626664, 2357534; 626795, 2357704; 627029, 2358053; 627224, 2358336; 627392, 2358423; 627502, 2358427; 627630, 2358379; 627953, 2358255; 628276, 2358149; 628736, 2358038; 628729, 2357998; 628614, 2357777; 628604, 2357670; 628469, 2357323; 628440, 2357112; 628469, 2356746; 628407, 2356682; 627935, 2356616; 627308, 2356585; 627034, 2356621; 626808, 2356718; 626676, 2356789; 626455, 2356942; 626679, 2357357; 626679, 2357358; return to starting point.

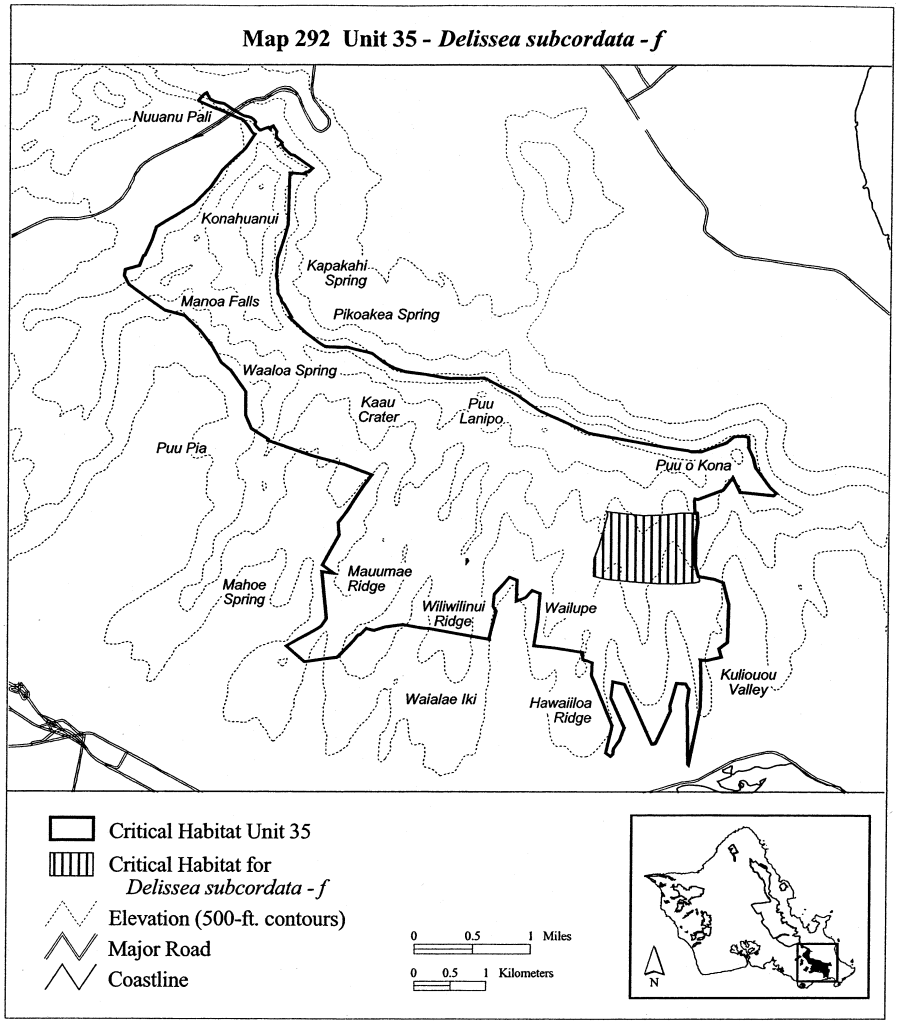
(ii) NOTE: Map 291 follows:



(292) Oahu 35—*Delissea subcordata*—f (129 ha; 318 ac)

(i) Unit consists of the following 25 boundary points: Start at 630377, 2357689; 630601, 2357663; 630893, 2357636; 631140, 2357641; 631405, 2357672; 631635, 2357672; 631639, 2357530; 631617, 2357300; 631617, 2357133; 631616, 2357125; 631616, 2357124; 631617, 2357123; 631617, 2357097; 631613, 2356938; 631666, 2356743; 631666, 2356712; 631604, 2356699; 631374, 2356686; 631105, 2356686; 630791, 2356704; 630406, 2356739; 630195, 2356788; 630204, 2357034; 630272, 2357217; 630397, 2357642; return to starting point.

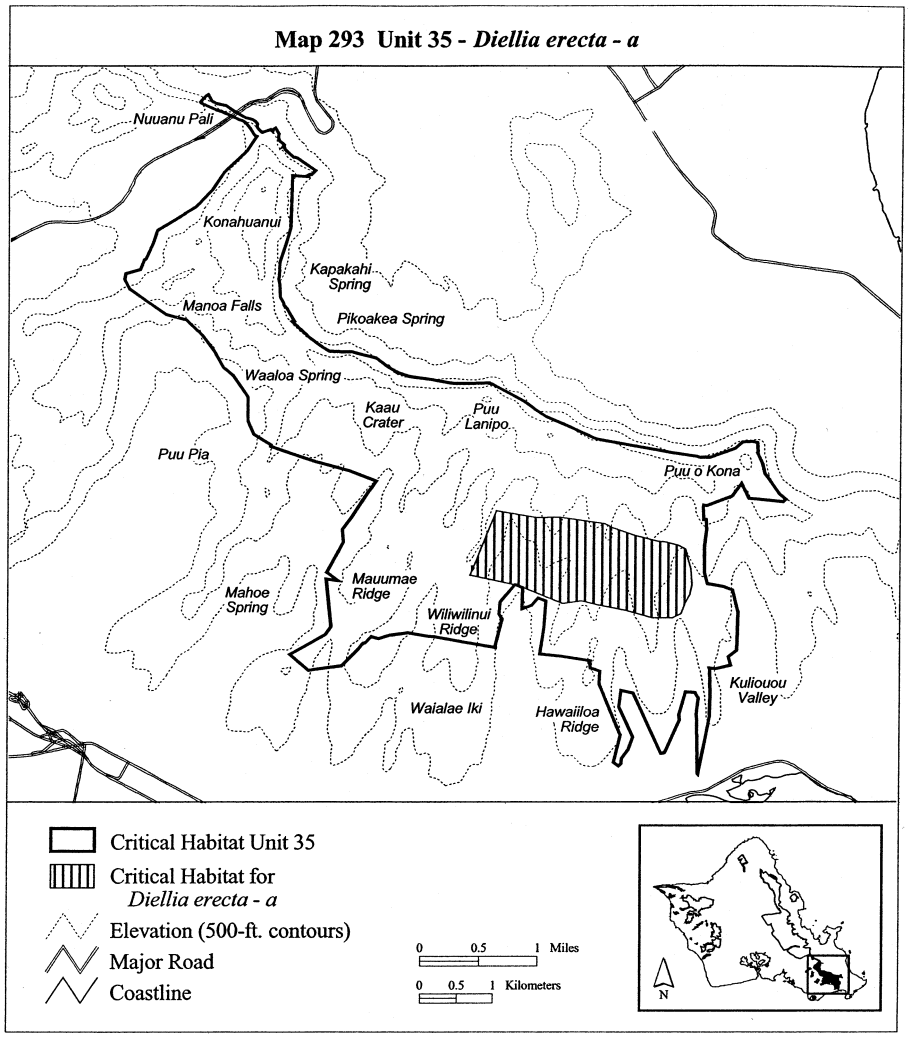
(ii) NOTE: Map 292 follows:



(293) Oahu 35—*Diellia erecta*—a (295 ha; 730 ac)

(i) Unit consists of the following 32 boundary points: Start at 629037, 2356776; 629036, 2356775; 629032, 2356777; 629030, 2356775; 628423, 2356903; 628417, 2356907; 628775, 2357794; 628842, 2357777; 629314, 2357699; 629642, 2357705; 629963, 2357653; 630249, 2357616; 630353, 2357564; 630664, 2357450; 630981, 2357372; 631080, 2357367; 631256, 2357320; 631355, 2357263; 631391, 2357118; 631433, 2356983; 631443, 2356765; 631417, 2356635; 631349, 2356511; 631298, 2356376; 631178, 2356319; 631043, 2356319; 630908, 2356319; 630540, 2356422; 630145, 2356505; 629943, 2356552; 629681, 2356520; 629147, 2356731; return to starting point.

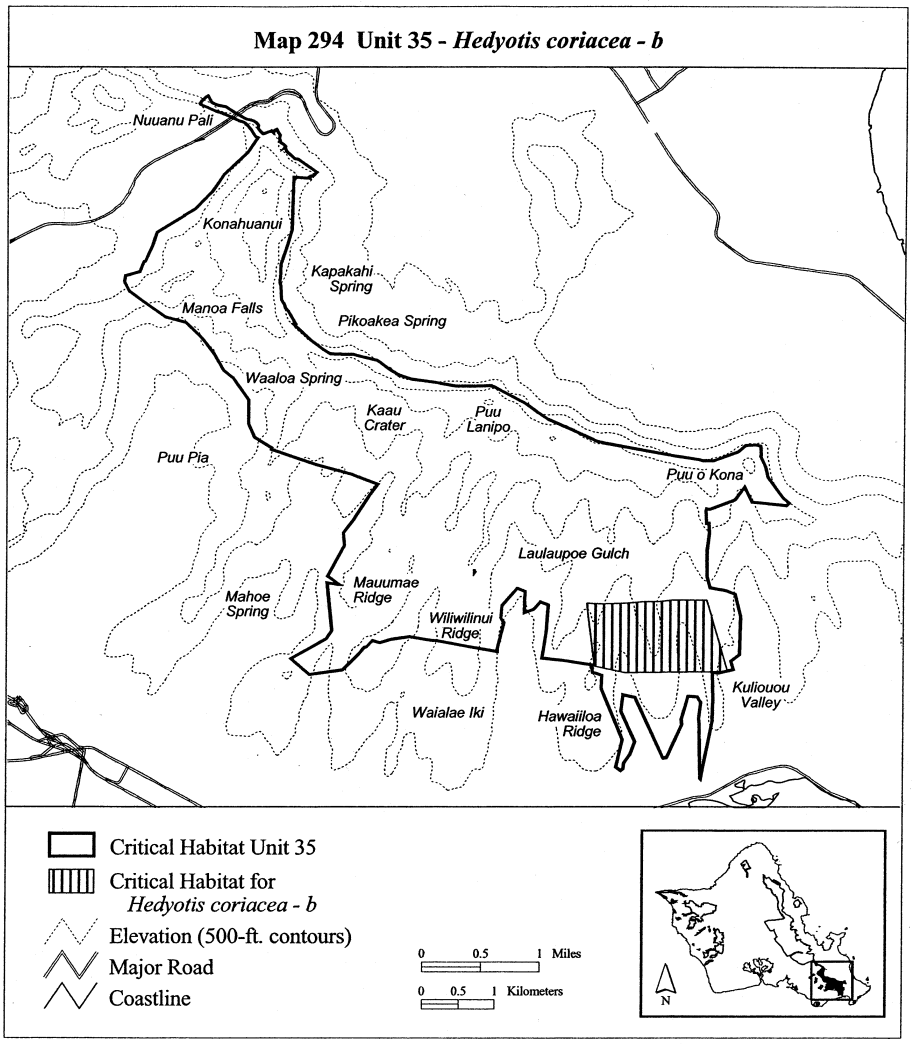
(ii) NOTE: Map 293 follows:



(294) Oahu 35—*Hedyotis coriacea*—b (163 ha; 403 ac)

(i) Unit consists of the following 13 boundary points: Start at 629982, 2356572; 630184, 2356567; 630523, 2356580; 630771, 2356596; 630972, 2356596; 631144, 2356617; 631391, 2356622; 631609, 2356622; 631611, 2356622; 631896, 2355651; 631866, 2355644; 630509, 2355630; 630091, 2355715; return to starting point.

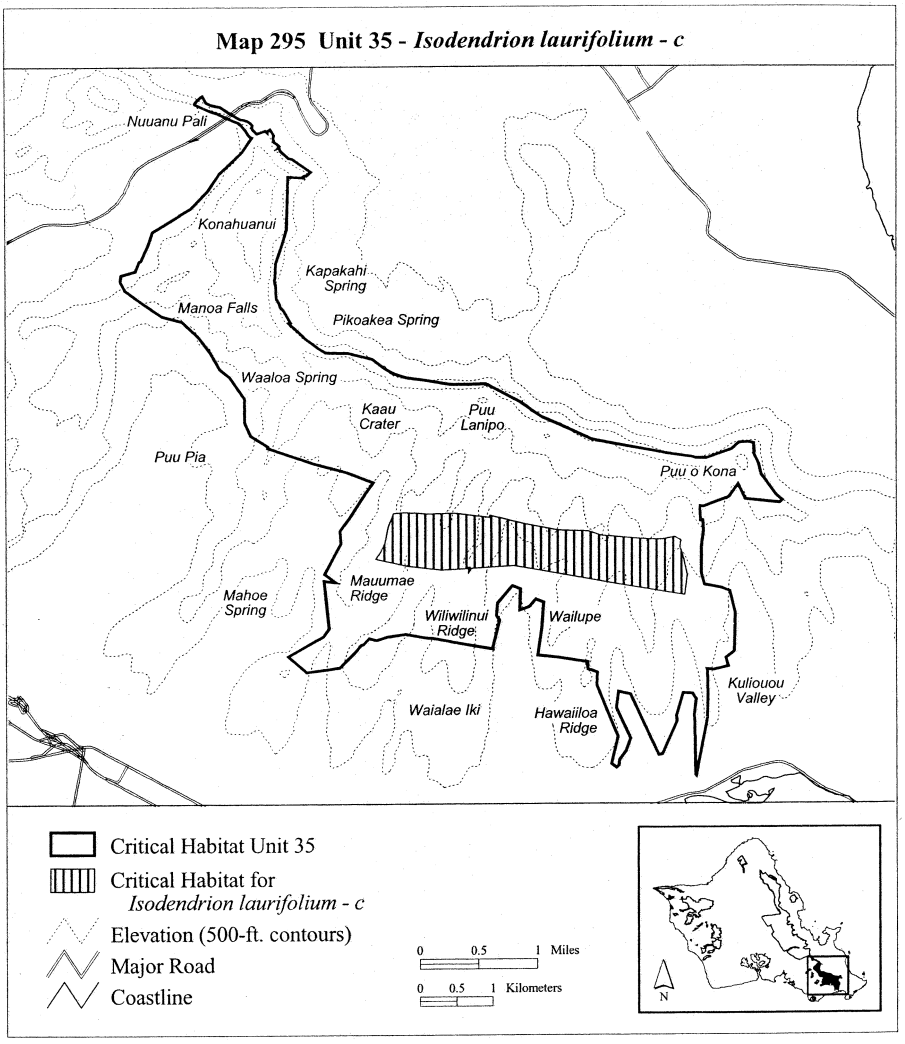
(ii) NOTE: Map 294 follows:



(295) Oahu 35—*Isodendrion laurifolium*—c (277 ha; 685 ac)

(i) Unit consists of the following 31 boundary points: Start at 628725, 2357745; 629204, 2357630; 629647, 2357539; 630066, 2357524; 630242, 2357463; 630696, 2357423; 630898, 2357413; 631089, 2357413; 631256, 2357443; 631336, 2357398; 631321, 2357302; 631377, 2357140; 631427, 2356914; 631397, 2356712; 631390, 2356646; 630446, 2356803; 629057, 2357055; 628070, 2356995; 627577, 2357056; 627161, 2357148; 627222, 2357227; 627293, 2357373; 627333, 2357585; 627409, 2357772; 627540, 2357782; 627691, 2357777; 627868, 2357767; 628201, 2357771; 6282611, 628553, 2357740; 628721, 2357717; return to starting point.

(ii) NOTE: Map 295 follows:

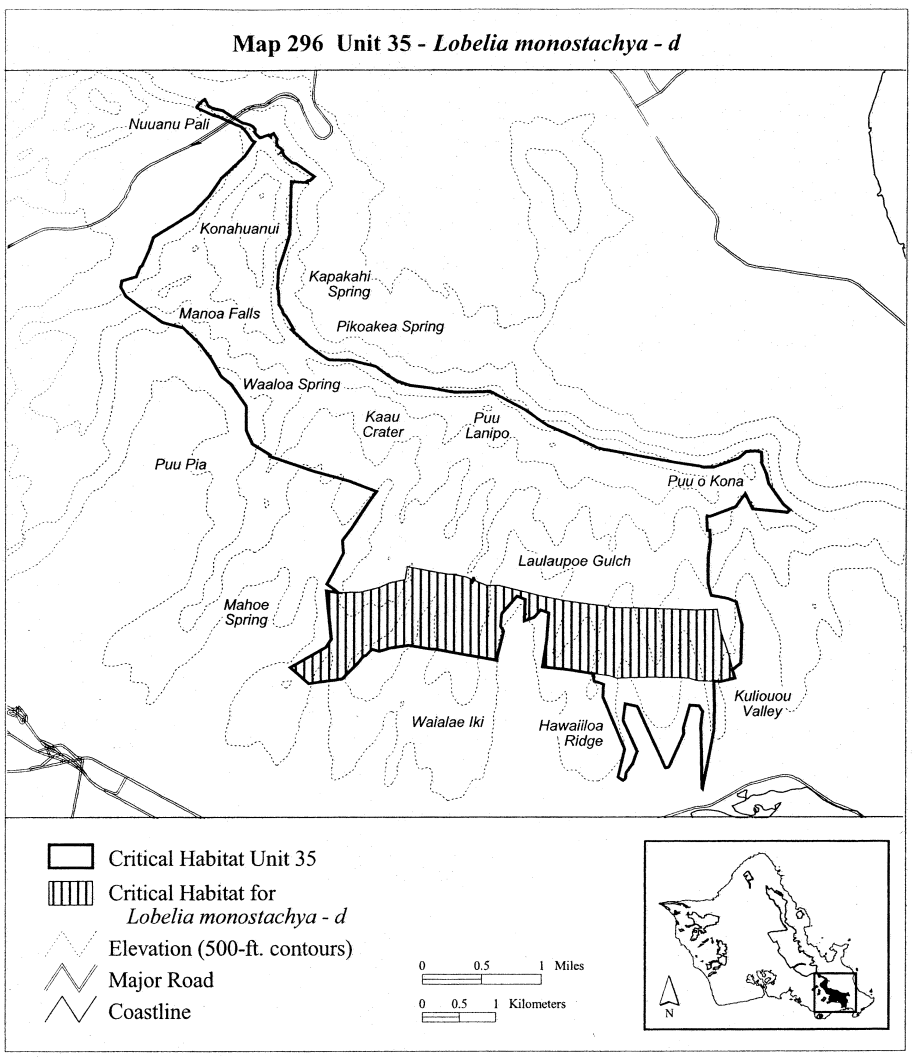


(296) Oahu 35—*Lobelia monostachya*—d (492 ha; 1,216 ac)

(i) Unit consists of the following 69 boundary points: Start at 628771, 2355914; 628330, 2355988; 627926, 2356061; 627899, 2356066; 627897, 2356061; 627827, 2356068; 627571, 2356120; 627329, 2356083; 627168, 2356034; 627070, 2356065; 627069, 2356065; 626983, 2355978; 626965, 2355973; 626932, 2355944; 626890, 2355885; 626668, 2355663; 626214, 2355601; 625964, 2355819; 626441, 2356092; 626441, 2356093; 626521, 2356196; 626521, 2356197; 626450, 2356847; 626599, 2356831; 626914, 2356839; 627171, 2356897; 627303, 2356956; 627519, 2357004; 627545, 2357180; 627996, 2357095; 628115, 2357076; 628205, 2357073; 628202, 2357063; 628341, 2357040; 628623, 2356927; 628796, 2356927; 629324, 2356786; 629687, 2356713; 629991, 2356676; 630266, 2356636; 630266, 2356629; 630905, 2356614; 631414, 2356592; 631733, 2356599; 631785, 2356317; 631898, 2355976; 631979, 2355672; 631786, 2355624; 631477, 2355638; 631352, 2355671; 631183, 2355675; 630849, 2355682; 630596, 2355679;

630365, 2355668; 630259, 2355709; 630259, 2355704; 629683, 2355793; 629380, 2355827; 629412, 2356050; 629470, 2356546; 629349, 2356595; 629262, 2356488; 629132, 2356446; 629144, 2356746; 629042, 2356789; 628826, 2356538; 628817, 2356371; 628855, 2356304; 628771, 2355955; return to starting point.

(ii) NOTE: Map 296 follows:

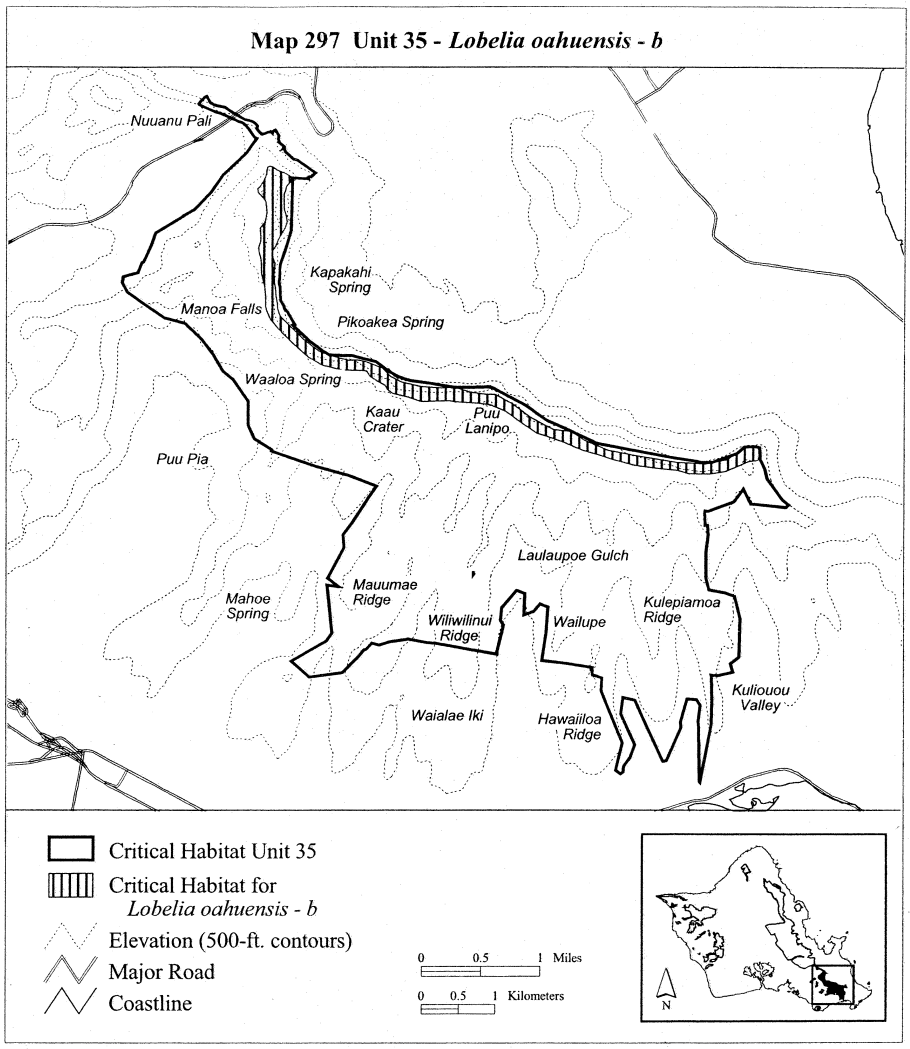


(297) Oahu 35—*Lobelia oahuensis*—b (151 ha; 373 ac)

(i) Unit consists of the following 140 boundary points: Start at 632026, 2358647; 632130, 2358731; 632266, 2358741; 632334, 2358725; 632340, 2358600; 632313, 2358547; 632193, 2358537; 631869, 2358401; 631670, 2358364; 631382, 2358364; 631225, 2358417; 630942, 2358443; 630644, 2358485; 630309, 2358568; 630157, 2358621; 629922, 2358689; 629644, 2358804; 629414, 2358882;

629294, 2358919; 629105, 2359045; 628875, 2359217; 628671, 2359301; 628498, 2359322; 628211, 2359343; 628211, 2359338; 628130, 2359359; 627971, 2359359; 627800, 2359353; 627739, 2359353; 627541, 2359413; 627345, 2359461; 627279, 2359509; 627240, 2359564; 627120, 2359633; 627042, 2359681; 626985, 2359765; 626894, 2359771; 626654, 2359774; 626368, 2359843; 626188, 2359951; 625986, 2360138; 625854, 2360255; 625791, 2360325; 625791, 2360324; 625782, 2360335; 625770, 2360348; 625770, 2360349; 625743, 2360381; 625674, 2360463; 625620, 2360580; 625604, 2360637; 625601, 2360766; 625589, 2360905; 625550, 2361094; 625550, 2361199; 625544, 2361295; 625517, 2361365; 625511, 2361434; 625535, 2361527; 625535, 2361575; 625529, 2361692; 625598, 2361783; 625617, 2361903; 625605, 2362059; 625604, 2362059; 625556, 2362125; 625505, 2362177; 625493, 2362228; 625532, 2362258; 625562, 2362309; 625607, 2362414; 625623, 2362519; 625662, 2362540; 625689, 2362525; 625755, 2362489; 625848, 2362450; 625929, 2362408; 625956, 2362378; 625935, 2362312; 625887, 2362264; 625875, 2362219; 625857, 2362161; 625854, 2362080; 625851, 2362080; 625857, 2361951; 625881, 2361867; 625896, 2361774; 625869, 2361698; 625830, 2361629; 625773, 2361539; 625737, 2361449; 625698, 2361392; 625701, 2361298; 625731, 2361220; 625728, 2361151; 625719, 2361061; 625722, 2361004; 625722, 2360947; 625737, 2360896; 625749, 2360781; 625764, 2360664; 625764, 2360607; 625788, 2360550; 625815, 2360502; 625815, 2360499; 625875, 2360436; 626007, 2360306; 626104, 2360210; 626209, 2360129; 626338, 2360033; 626437, 2359991; 626636, 2359930; 626708, 2359918; 626744, 2359906; 626786, 2359912; 626867, 2359912; 626973, 2359891; 627201, 2359801; 627324, 2359681; 627466, 2359615; 627721, 2359552; 628004, 2359530; 628189, 2359539; 628189, 2359542; 628191, 2359541; 628409, 2359474; 628618, 2359442; 628734, 2359448; 628922, 2359343; 629000, 2359296; 629210, 2359134; 629398, 2359034; 629534, 2358966; 629754, 2358945; 629932, 2358830; 630262, 2358684; 630670, 2358610; 631214, 2358526; 631607, 2358500; 631900, 2358563; return to starting point.

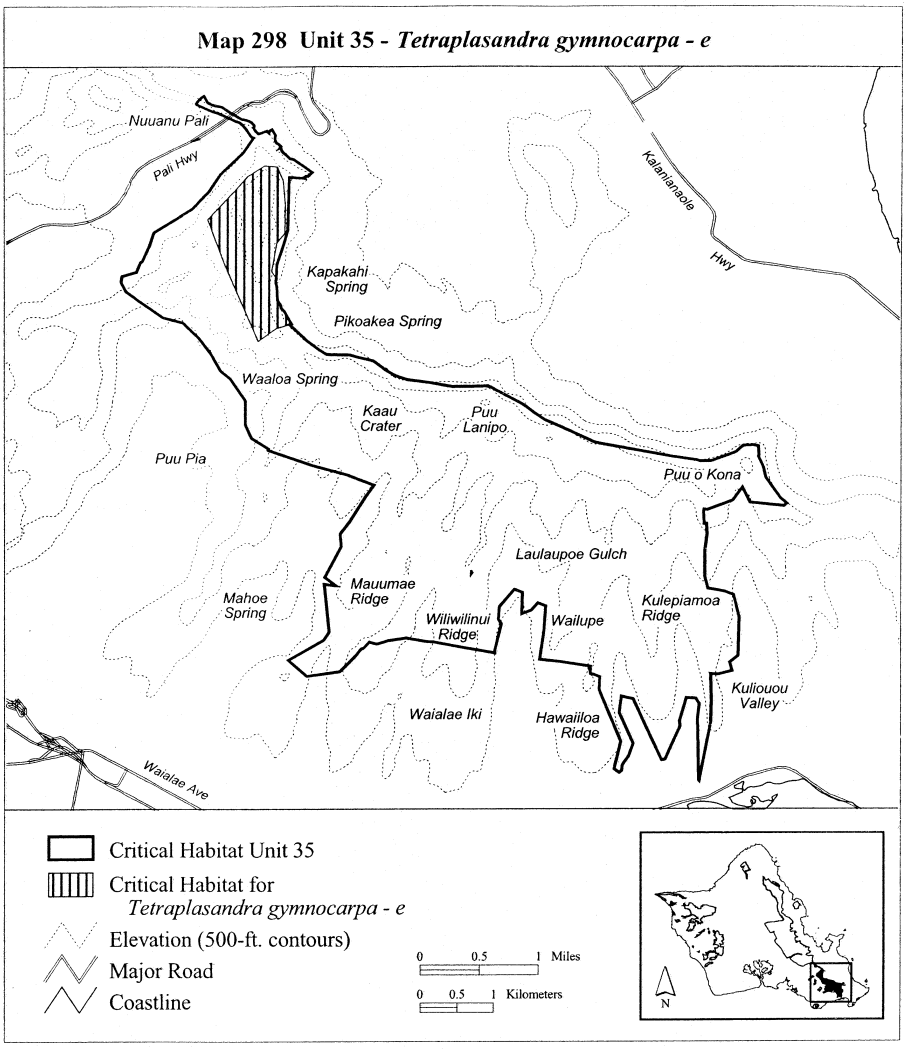
(ii) NOTE: Map 297 follows:



(298) Oahu 35—*Tetraplasandra gymnocarpa*—e (152 ha; 376 ac)

(i) Unit consists of the following 26 boundary points: Start at 625799, 2360900; 625804, 2360726; 625853, 2360646; 625861, 2360607; 625862, 2360607; 625910, 2360553; 626000, 2360395; 625793, 2360330; 625546, 2360155; 625079, 2361221; 625083, 2361221; 624866, 2361796; 624857, 2361800; 624927, 2361880; 625243, 2362209; 625408, 2362394; 625639, 2362532; 625810, 2362519; 625889, 2362334; 625916, 2361992; 625909, 2361622; 625797, 2361484; 625731, 2361115;

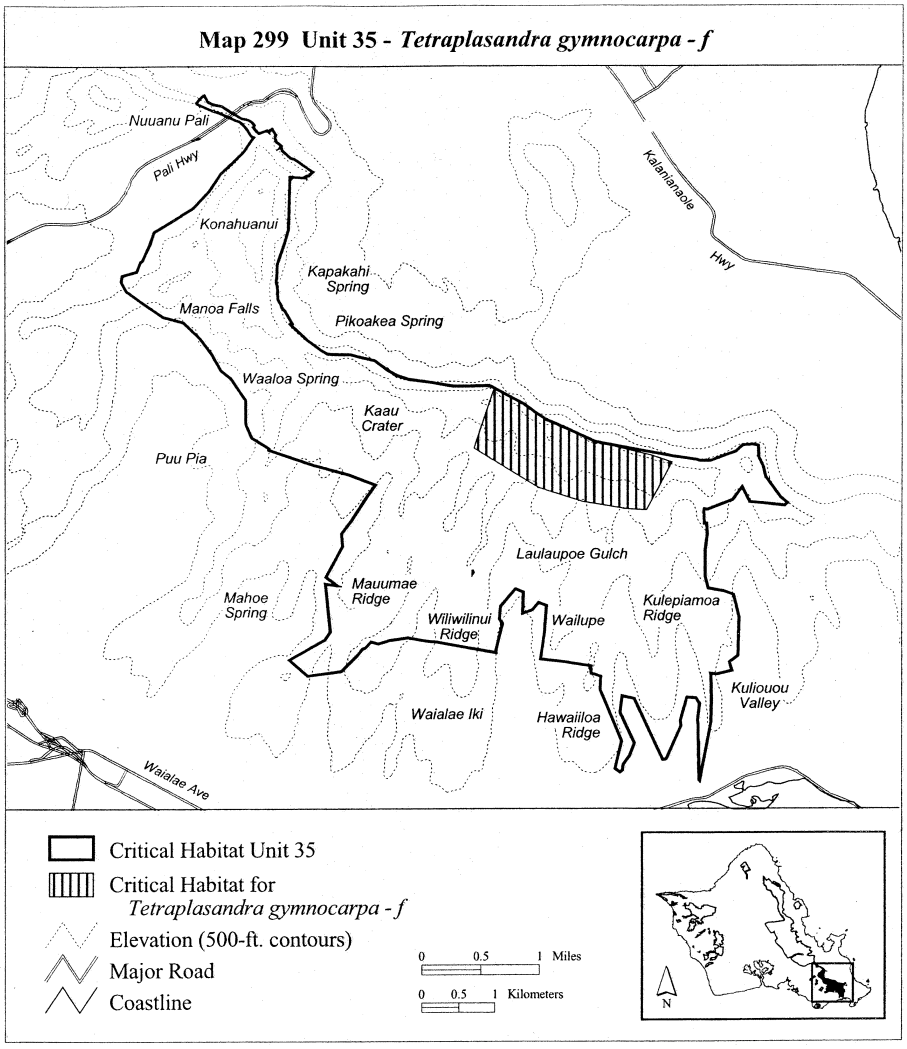
(ii) NOTE: Map 298 follows:



(299) Oahu 35—*Tetraplasnadra gymnocarpa*—f (214 ha; 528 ac)

(i) Unit consists of the following 12 boundary points: Start at 628462, 2358693; 628739, 2359501; 629145, 2359298; 629149, 2359295; 629426, 2359091; 630077, 2358784; 630872, 2358597; 631161, 2358501; 630812, 2357850; 630522, 2357874; 629956, 2357970; 629330, 2358163; return to starting point.

(ii) NOTE: Map 299 follows:

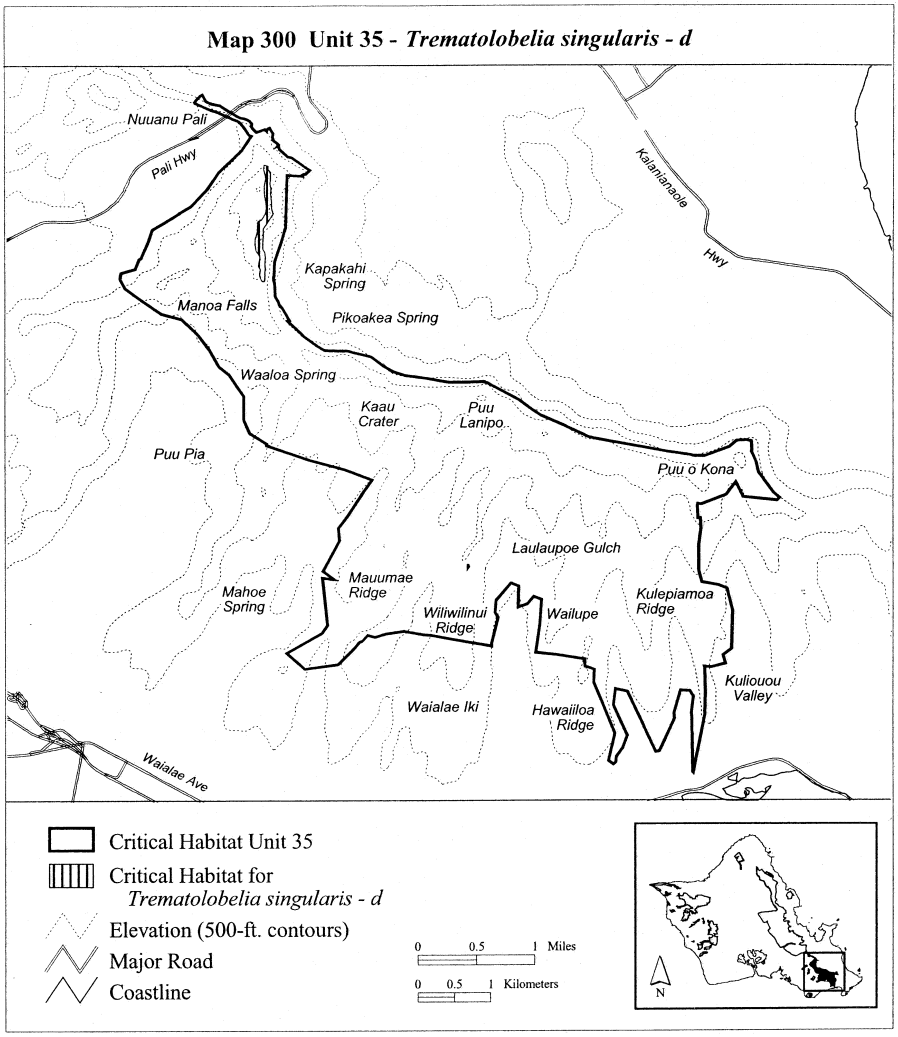


(300) Oahu 35—*Trematolobelia singularis*—d (14 ha; 33 ac)

(i) Unit consists of the following 52 boundary points: Start at 625675, 2362515; 625712, 2362499; 625712, 2362459; 625743, 2362418; 625743, 2362337; 625737, 2362257; 625750, 2362185; 625743, 2362126; 625759, 2362005; 625759, 2361924; 625778, 2361843; 625725, 2361759; 625690, 2361713; 625647, 2361644; 625641, 2361545; 625635, 2361458; 625635, 2361377; 625663, 2361327; 625669, 2361253; 625666, 2361153; 625672, 2361088; 625666, 2361057; 625666, 2360991; 625664, 2360972; 625659, 2360932; 625628, 2360932; 625600, 2360973; 625588, 2361019; 625603, 2361094; 625582, 2361122; 625579, 2361141; 625591, 2361212; 625597, 2361268; 625575, 2361299; 625544, 2361358; 625529, 2361427; 625526, 2361504; 625551, 2361554; 625566, 2361607; 625566, 2361682; 625569, 2361731; 625579, 2361747; 625625, 2361775; 625669, 2361849; 625684, 2361927; 625678, 2362005; 625663, 2362079; 625659, 2362157;

625659, 2362238; 625681, 2362341; 625653, 2362459; 625656, 2362521; return to starting point.

(ii) NOTE: Map 300 follows:

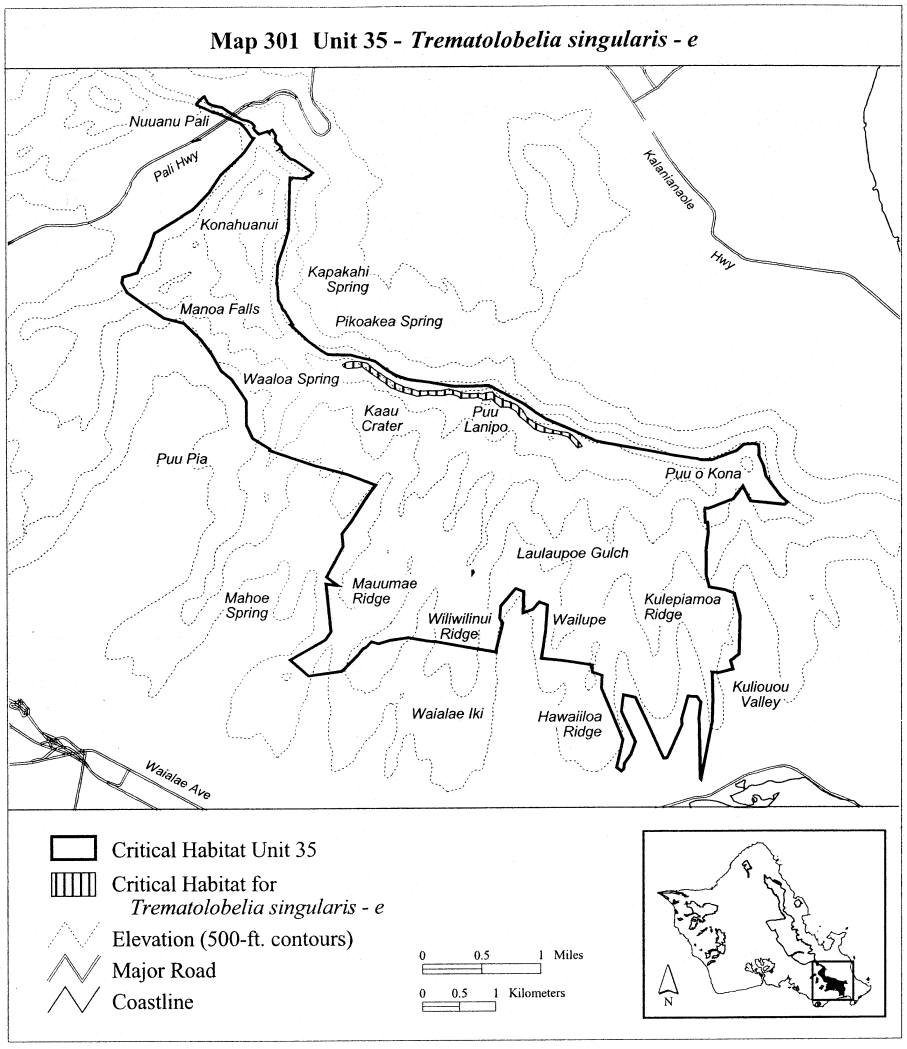


(301) Oahu 35—*Trematolobelia singularis*—e (14 ha; 33 ac)

(i) Unit consists of the following 52 boundary points: Start at 625675, 2362515; 625712, 2362499; 625712, 2362459; 625743, 2362418; 625743, 2362337; 625737, 2362257; 625750, 2362185; 625743, 2362126; 625759, 2362005; 625759, 2361924; 625778, 2361843; 625725, 2361759; 625690, 2361713; 625647, 2361644; 625641, 2361545; 625635, 2361458; 625635, 2361377; 625663, 2361327; 625669, 2361253; 625666, 2361153; 625672, 2361088; 625666, 2361057; 625666, 2360991; 625664, 2360972; 625659, 2360932; 625628, 2360932; 625600, 2360973; 625588, 2361019;

625603, 2361094; 625582, 2361122; 625579, 2361141; 625591, 2361212; 625597, 2361268; 625575, 2361299; 625544, 2361358; 625529, 2361427; 625526, 2361504; 625551, 2361554; 625566, 2361607; 625566, 2361682; 625569, 2361731; 625579, 2361747; 625625, 2361775; 625669, 2361849; 625684, 2361927; 625678, 2362005; 625663, 2362079; 625659, 2362157; 625659, 2362238; 625681, 2362341; 625653, 2362459; 625656, 2362521; return to starting point.

(ii) NOTE: Map 301 follows:

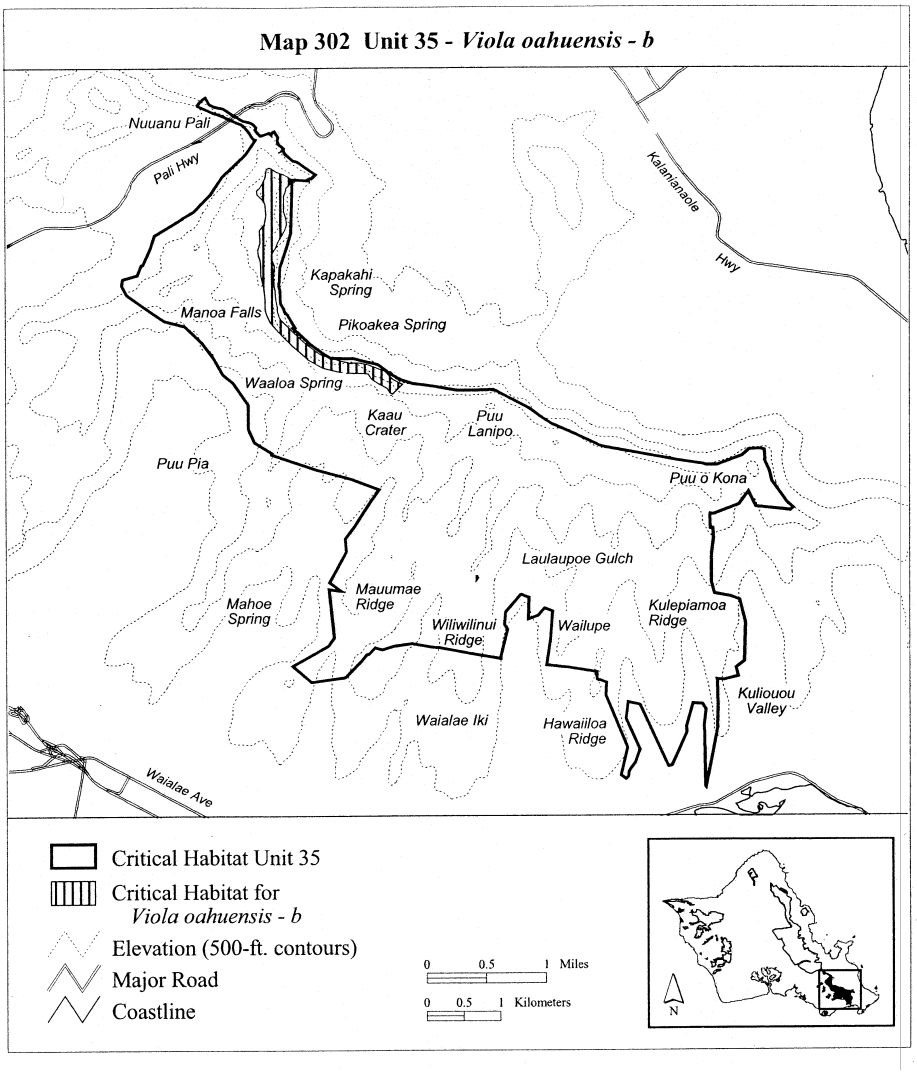


(302) Oahu 35—*Viola oahuensis*—b (75 ha; 186 ac)

(i) Unit consists of the following 90 boundary points: Start at 627315, 2359484; 627279, 2359509; 627240, 2359564; 627120, 2359633; 627042, 2359681; 626985, 2359765; 626894, 2359771; 626654, 2359774; 626368, 2359843; 626188, 2359951; 625986,

2360138; 625854, 2360255; 625791, 2360325; 625791, 2360324; 625782, 2360335; 625770, 2360348; 625770, 2360349; 625743, 2360381; 625674, 2360463; 625620, 2360580; 625604, 2360637; 625601, 2360766; 625589, 2360905; 625550, 2361094; 625550, 2361199; 625544, 2361295; 625517, 2361365; 625511, 2361434; 625535, 2361527; 625535, 2361575; 625529, 2361692; 625598, 2361783; 625617, 2361903; 625605, 2362059; 625604, 2362059; 625556, 2362125; 625505, 2362177; 625493, 2362228; 625532, 2362258; 625562, 2362309; 625607, 2362414; 625623, 2362519; 625662, 2362540; 625689, 2362525; 625755, 2362489; 625848, 2362450; 625929, 2362408; 625956, 2362378; 625935, 2362312; 625887, 2362264; 625875, 2362219; 625857, 2362161; 625854, 2362080; 625851, 2362080; 625857, 2361951; 625881, 2361867; 625896, 2361774; 625869, 2361698; 625830, 2361629; 625773, 2361539; 625737, 2361449; 625698, 2361392; 625701, 2361298; 625731, 2361220; 625728, 2361151; 625719, 2361061; 625722, 2361004; 625722, 2360947; 625737, 2360896; 625749, 2360781; 625764, 2360664; 625764, 2360607; 625788, 2360550; 625815, 2360502; 625815, 2360499; 625875, 2360436; 626007, 2360306; 626104, 2360210; 626209, 2360129; 626338, 2360033; 626437, 2359991; 626636, 2359930; 626708, 2359918; 626744, 2359906; 626786, 2359912; 626867, 2359912; 626973, 2359891; 627201, 2359801; 627324, 2359681; 627454, 2359620; return to starting point.

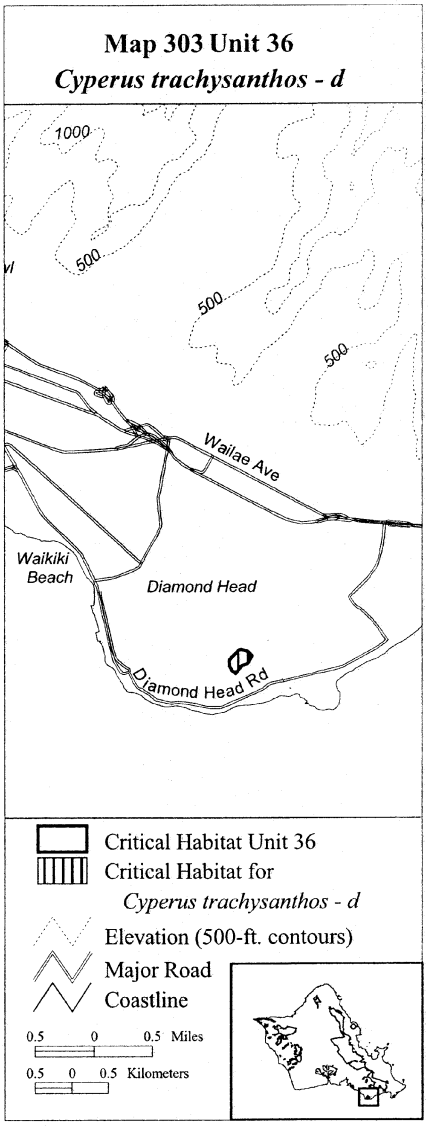
(ii) NOTE: Map 302 follows:


Map 302 Unit 35 - Viola oahuensis - b
Nuuanu Pali
Pali Hwy
Kalanianaole Hwy
Kapakahi Spring
Manoa Falls
Pikoakea Spring
Waaloa Spring
Kaau Crater
Puu Lanipo
Puu Pia
Puu o Kona
Laulaupoe Gulch
Mauumae Ridge
Mahoe Spring
Wiliwilinui Ridge
Wailupe
Kulepiamoa Ridge
Kuliouou Valley
Waialae Iki
Hawaiiloa Ridge
Waialae Ave
Critical Habitat Unit 35
Critical Habitat for Viola oahuensis - b
Elevation (500-ft. contours)
Major Road
Coastline
0 0.5 1 Miles
0 0.5 1 Kilometers
N

(303) Oahu 36—*Cyperus trachysanthos*—d (5 ha; 13 ac)

(i) Unit consists of the following 12 boundary points: Start at 624088, 2351393; 624025, 2351406; 623980, 2351471; 623984, 2351554; 624095, 2351675; 624119, 2351675; 624179, 2351675; 624234, 2351635; 624272, 2351572; 624224, 2351497; 624161, 2351479; 624161, 2351478; return to starting point.

(ii) NOTE: Map 303 follows:

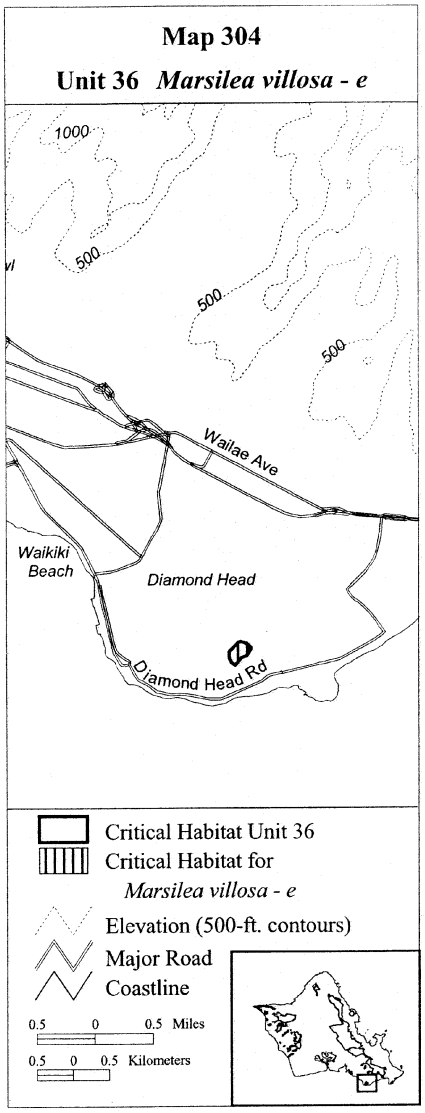


(304) Oahu 36—*Marsilea villosa*—e (6 ha; 14 ac)

(i) Unit consists of the following 13 boundary points: Start at 624140, 2351695; 624165, 2351693; 624226, 2351679; 624288, 2351612; 624292, 2351603; 624224, 2351497; 624161, 2351479; 624161, 2351478; 624071, 2351374; 624013, 2351406; 624000,

2351487; 624000, 2351571; 624112, 2351693; return to starting point.

(ii) NOTE: Map 304 follows:



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

Unit name	Species occupied	Species unoccupied
Oahu 4—*Abutilon sandwicense*—a	*Abutilon sandwicense.*	
Oahu 4—*Abutilon sandwicense*—b	*Abutilon sandwicense.*	
Oahu 4—*Abutilon sandwicense*—c	*Abutilon sandwicense.*	
Oahu 15—*Abutilon sandwicense*—d	*Abutilon sandwicense.*	
Oahu 15—*Abutilon sandwicense*—e	*Abutilon sandwicense.*	

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

Unit name	Species occupied	Species unoccupied
Oahu 17—*Abutilon sandwicense*—f	*Abutilon sandwicense.*	
Oahu 20—*Adenophorus periens*—a	.....	*Adenophorus periens.*
Oahu 4—*Alectryon macrococcus*—a	*Alectryon macrococcus.*	
Oahu 15—*Alectryon macrococcus*—b	*Alectryon macrococcus.*	
Oahu 4—*Alsinidendron obovatum*—a	*Alsinidendron obovatum.*	
Oahu 4—*Alsinidendron obovatum*—b	*Alsinidendron obovatum*	*Alsinidendron obovatum.*
Oahu 15—*Alsinidendron obovatum*—c	.....	*Alsinidendron obovatum.*
Oahu 4—*Alsinidendron trinerve*—a	*Alsinidendron trinerve.*	
Oahu 2—*Bonamia menziesii*—a	*Bonamia menziesii.*	
Oahu 3—*Bonamia menziesii*—b	*Bonamia menziesii.*	
Oahu 4—*Bonamia menziesii*—c	*Bonamia menziesii.*	
Oahu 17—*Bonamia menziesii*—d	*Bonamia menziesii.*	
Oahu 35—*Bonamia menziesiiz*—e	*Bonamia menziesii.*	
Oahu 4—*Cenchrus agrimonioides*—a	*Cenchrus agrimonioides.*	
Oahu 4—*Cenchrus agrimonioides*—b	*Cenchrus agrimonioides.*	
Oahu 15—*Cenchrus agrimonioides*—c	*Cenchrus agrimonioides.*	
Oahu 15—*Cenchrus agrimonioides*—d	*Cenchrus agrimonioides.*	
Oahu 1—*Centaurium sebaeoides*—a	.....	*Centaurium sebaeoides.*
Oahu 27—*Centaurium sebaeoides*—b	.....	*Centaurium sebaeoides.*
Oahu 1—*Chamaesyce celastroides* var. *kaenana*—a.	*Chamaesyce celastroides* var. *kaenana.*	
Oahu 3—*Chamaesyce celastroides* var. *kaenana*—b.	*Chamaesyce celastroides* var. *kaenana.*	
Oahu 4—*Chamaesyce celastroides* var. *kaenana*—c.	.....	*Chamaesyce celastroides* var. *kaenana.*
Oahu 5—*Chamaesyce celastroides* var. *kaenana*—d.	*Chamaesyce celastroides* var. *kaenana.*	
Oahu 35—*Chamaesyce celastroides* var. *Kaenana*—e.	.....	*Chamaesyce celastroides* var. *kaenana.*
Oahu 20—*Chamaesyce deppeana*—a	.....	*Chamaesyce deppeana.*
Oahu 35—*Chamaesyce deppeana*—b	*Chamaesyce deppeana.*	
Oahu 4—*Chamaesyce herbstii*—a	*Chamaesyce herbstii.*	
Oahu 15—*Chamaesyce herbstii*—b	.....	*Chamaesyce herbstii.*
.		
Oahu15—*Chamaesyce herbstii*—c	*Chamaesyce herbstii.*	
Oahu 9—*Chamaesyce kuwaleana*—a	*Chamaesyce kuwaleana.*	
Oahu 11—*Chamaesyce kuwaleana*—b	*Chamaesyce kuwaleana.*	
Oahu 12—*Chamaesyce kuwaleana*—c	*Chamaesyce kuwaleana.*	
Oahu 15—*Chamaesyce kuwaleana*—d	.....	*Chamaesyce kuwaleana.*
Oahu 22—*Chamaesyce kuwaleana*—e	.....	*Chamaesyce kuwaleana.*
Oahu 23—*Chamaesyce kuwaleana*—f	.....	*Chamaesyce kuwaleana.*
Oahu 26—*Chamaesyce kuwaleana*—g	.....	*Chamaesyce kuwaleana.*
Oahu 20—*Chamaesyce rockii*—a	*Chamaesyce rockii.*	
Oahu 20—*Chamaesyce rockii—b*	.....	*Chamaesyce rockii.*
Oahu 20—*Chamaesyce rockii*—c	*Chamaesyce rockii.*	
Oahu 4—*Colubrina oppositifolia*—a	*Colubrina oppositifolia.*	
Oahu 4—*Ctenitis squamigera*—a	*Ctenitis squamigera.*	
Oahu 4—*Cyanea acuminata*—a	*Cyanea acuminata.*	
Oahu 20—*Cyanea acuminata*—b	*Cyanea acuminata.*	
Oahu 20—*Cyanea crispa*—a	*Cyanea crispa.*	
Oahu 20—*Cyanea crispa*—b	.....	*Cyanea crispa.*
Oahu 21—*Cyanea crispa*—c	*Cyanea crispa.*	
Oahu 35—*Cyanea crispa*—d	*Cyanea crispa.*	
Oahu 20—*Cyanea grimesiana* ssp. *grimesiana*—a	.....	*Cyanea grimesiana* ssp. *grimesiana.*
Oahu 35—*Cyanea grimesiana* ssp. *grimesiana*—b	*Cyanea grimesiana* ssp. *grimesiana.*	
Oahu 4—*Cyanea grimesiana* ssp. *obatae*—a	*Cyanea grimesiana* ssp. *obatae.*	
Oahu 15—*Cyanea grimesiana* ssp. *obatae*—b	*Cyanea grimesiana* ssp. *obatae.*	
Oahu 15—*Cyanea grimesiana* ssp. *obatae*—c	*Cyanea grimesiana* ssp. *obatae.*	
Oahu 15—*Cyanea grimesiana* ssp. *obatae*—d	*Cyanea grimesiana* ssp. *obatae.*	
Oahu 20—*Cyanea humboltiana*—a	*Cyanea humboltiana.*	
Oahu 20—*Cyanea humboltiana*—b	.....	*Cyanea humboltiana.*
Oahu 20—*Cyanea humboltiana*—c	.....	*Cyanea humboltiana.*
Oahu 20—*Cyanea humboltiana*—d	*Cyanea humboltiana.*	
Oahu 35—*Cyanea humboltiana*—e	*Cyanea humboltiana.*	
Oahu 20—*Cyanea koolauensis*—a	*Cyanea koolauensis.*	
Oahu 20—*Cyanea koolauensis*—b	*Cyanea koolauensis.*	
Oahu 35—*Cyanea koolauensis*—c	*Cyanea koolauensis.*	
Oahu 35—*Cyanea koolauensis*—d	*Cyanea koolauensis.*	
Oahu 4—*Cyanea longiflora*—a	*Cyanea longiflora.*	
Oahu 4—*Cyanea longiflora*—b	*Cyanea longiflora.*	
Oahu 19—*Cyanea longiflora*—c	.....	*Cyanea longiflora.*
Oahu 15—*Cyanea pinnatifida*—a	.....	*Cyanea pinnatifida.*

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

Unit name	Species occupied	Species unoccupied
Oahu 15—*Cyanea pinnatifida*—b	.....	*Cyanea pinnatifida.*
Oahu 15—*Cyanea pinnatifida*—c	.....	*Cyanea pinnatifida.*
Oahu 20—*Cyanea st.-johnii*—a	*Cyanea st.-johnii.*	
Oahu 35—*Cyanea st.-johnii*—b	*Cyanea st.-johnii.*	
Oahu 4—*Cyanea superba*—a	.....	*Cyanea superba.*
Oahu 4—*Cyanea superba*—b	.....	*Cyanea superba.*
Oahu 4—*Cyanea superba*—c	.....	*Cyanea superba.*
Oahu 35—*Cyanea superba*—d	.....	*Cyanea superba.*
Oahu 20—*Cyanea truncata*—a	*Cyanea truncata.*	
Oahu 21—*Cyanea truncata*—b	*Cyanea truncata.*	
Oahu 1—*Cyperus trachysanthos*—a	*Cyperus trachysanthos.*	
Oahu 28—*Cyperus trachysanthos*—b	.....	*Cyperus trachysanthos.*
Oahu 29—*Cyperus trachysanthos*—c	.....	*Cyperus trachysanthos.*
Oahu 36—*Cyperus trachysanthos*—d	*Cyperus trachysanthos.*	
Oahu 4—*Cyrtandra dentata*—a	*Cyrtandra dentata.*	
Oahu 35—*Cyrtandra polyantha*—a	*Cyrtandra polyantha.*	
Oahu 20—*Cyrtandra subumbellata*—a	*Cyrtandra subumbellata.*	
Oahu 20—*Cyrtandra subumbellata*—b	.....	*Cyrtandra subumbellata.*
Oahu 20—*Cyrtandra viridiflora*—a	*Cyrtandra viridiflora.*	
Oahu 4—*Delissea subcordata*—a	*Delissea subcordata.*	
Oahu 15—*Delissea subcordata*—b	*Delissea subcordata.*	
Oahu 15—*Delissea subcordata*—c	*Delissea subcordata.*	
Oahu 15—*Delissea subcordata*—d	*Delissea subcordata.*	
Oahu 35—*Delissea subcordata*—e	.....	*Delissea subcordata.*
Oahu 35—*Delissea subcordata*—f	.....	*Delissea subcordata.*
Oahu 35—*Diellia erecta*—a	*Diellia erecta.*	
Oahu 4—*Diellia falcata*—a	.....	*Diellia falcata.*
Oahu 4—*Diellia falcata*—b	*Diellia falcata.*	
Oahu 15—*Diellia falcata*—c	*Diellia falcata.*	
Oahu 15—*Diellia falcata*—d	*Diellia falcata.*	
Oahu 15—*Diellia unisora*—a	*Diellia unisora.*	
Oahu 4—*Diplazium molokaiense*—a	.....	*Diplazium molokaiense.*
Oahu 4—*Dubautia herbstobatae*—a	.....	*Dubautia herbstobatae.*
Oahu 4—*Dubautia herbstobatae*—b	.....	*Dubautia herbstobatae.*
Oahu 7—*Dubautia herbstobatae*—c	.....	*Dubautia herbstobatae.*
Oahu 4—*Eragrostis fosbergii*—a	*Eragrostis fosbergii.*	
Oahu 4—*Eugenia koolauensis*—a	*Eugenia koolauensis.*	
Oahu 19—*Eugenia koolauensis*—b	*Eugenia koolauensis.*	
Oahu 20—*Eugenia koolauensis*—c	*Eugenia koolauensis.*	
Oahu 3—*Euphorbia haeleeleana*—a	*Euphorbia haeleeleana.*	
Oahu 4—*Euphorbia haeleeleana*—b	*Euphorbia haeleeleana.*	
Oahu 4—*Flueggea neowawraea*—a	*Flueggea neowawraea.*	
Oahu 15—*Gardenia mannii*—a	*Gardenia mannii.*	
Oahu 20—*Gardenia mannii*—b	*Gardenia mannii.*	
Oahu 20—*Gardenia mannii*—c	.....	*Gardenia mannii.*
Oahu 4—*Gouania meyenii*—a	*Gouania meyenii.*	
Oahu 4—*Gouania meyenii*—b	*Gouania meyenii.*	
Oahu 15—*Gouania meyenii*—c	.....	*Gouania meyenii.*
Oahu 31—*Gouania meyenii*—d	.....	*Gouania meyenii.*
Oahu 2—*Gouania vitifolia*—a	.....	*Gouania vitifolia.*
Oahu 3—*Gouania vitifolia*—b	.....	*Gouania vitifolia.*
Oahu 5—*Gouania vitifolia*—c	.....	*Gouania vitifolia.*
Oahu 4—*Gouania vitifolia*—d	.....	Gouania vitifolia.
Oahu 4—*Gouania vitifolia*—e	.....	*Gouania vitifolia.*
Oahu 4—*Gouania vitifolia*—f	*Gouania vitifolia.*	
Oahu 4—*Gouania vitifolia*—g	.....	*Gouania vitifolia.*
Oahu 8—*Gouania vitifolia*—h	*Gouania vitifolia.*	
Oahu 15—*Hedyotis coriacea*—a	.....	*Hedyotis coriacea.*
Oahu 35—*Hedyotis coriacea*—b	.....	*Hedyotis coriacea.*
Oahu 4—*Hedyotis degeneri*—a	*Hedyotis degeneri.*	
Oahu 4—*Hedyotis degeneri*—b	*Hedyotis degeneri.*	
Oahu 4—*Hedyotis parvula*—a	*Hedyotis parvula.*	
Oahu 15—*Hedyotis parvula*—b	.....	*Hedyotis parvula.*
Oahu 15—*Hedyotis parvula*—c	.....	*Hedyotis parvula.*
Oahu 15—*Hedyotis parvula*—d	*Hedyotis parvula.*	
Oahu 4—*Hesperomannia arborescens*—a	*Hesperomannia arborescens.*	
Oahu 20—*Hesperomannia arborescens*—b	Hesperomannia arborescens.	
Oahu 4—*Hesperomannia arbuscula*—a	*Hesperomannia arbuscula.*	
Oahu 4—*Hesperomannia arbuscula*—b	*Hesperomannia arbuscula.*	
Oahu 15—*Hesperomannia arbuscula*—c	.....	*Hesperomannia arbuscula.*
Oahu 15—*Hesperomannia arbuscula*—d	.....	*Hesperomannia arbuscula.*
Oahu 15—*Hesperomannia arbuscula*—e	*Hesperomannia arbuscula.*	

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

Unit name	Species occupied	Species unoccupied
Oahu 1—*Hibiscus brackenridgei*—a	*Hibiscus brackenridgei.*	
Oahu 4—*Hibiscus brackenridgei*—b	*Hibiscus brackenridgei.*	
Oahu 5—*Hibiscus brackenridgei*—c	*Hibiscus brackenridgei.*	
Oahu 4—*Isodendrion laurifolium*—a	*Isodendrion laurifolium.*	
Oahu 4—*Isodendrion laurifolium*—b	*Isodendrion laurifolium.*	
Oahu 35—*Isodendrion laurifolium*—c	.....	*Isodendrion laurifolium.*
Oahu 4—*Isodendrion longifolium*—a	*Isodendrion longifolium.*	
Oahu 20—*Isodendrion longifolium*—b	.....	*Isodendrion longifolium.*
Oahu 5—*Isodendrion pyrifolium*—a	.....	*Isodendrion pyrifolium.*
Oahu 16—*Isodendrion pyrifolium*—b	.....	*Isodendrion pyrifolium.*
Oahu 17—*Isodendrion pyrifolium*—c	.....	*Isodendrion pyrifolium.*
Oahu 4—*Labordia cyrtandrae*—a	*Labordia cyrtandrae.*	
Oahu 20—*Labordia cyrtandrae*—b	.....	*Labordia cyrtandrae.*
Oahu 20—*Labordia cyrtandrae*—c	*Labordia cyrtandrae.*	
Oahu 4—*Lepidium arbuscula*—a	*Lepidium arbuscula.*	
Oahu 15—*Lepidium arbuscula*—b	*Lepidium arbuscula.*	
Oahu 15—*Lepidium arbuscula*—c	*Lepidium arbuscula.*	
Oahu 4—*Lipochaeta lobata* var. *leptophylla*—a	*Lipochaeta lobata* var. *leptophylla.*	
Oahu 15—*Lipochaeta lobata* var. *leptophylla*—b	*Lipochaeta lobata* var. *leptophylla.*	
Oahu 4—*Lipochaeta tenuifolia*—a	*Lipochaeta tenuifolia.*	
Oahu 4—*Lipochaeta tenuifolia*—b	*Lipochaeta tenuifolia.*	
Oahu 4—*Lipochaeta tenuifolia*—c	*Lipochaeta tenuifolia.*	
Oahu 20—*Lobelia gaudichaudii* ssp. *koolauensis*—a.	*Lobelia gaudichaudii* ssp. *koolauensis.*	
Oahu 30—*Lobelia monostachya*—a	.....	*Lobelia monostachya.*
Oahu 22—*Lobelia monostachya*—b	*Lobelia monostachya.*	
Oahu 33—*Lobelia monostachya*—c	.....	*Lobelia monostachya.*
Oahu 35—*Lobelia monostachya*—d	.....	*Lobelia monostachya.*
Oahu 4—*Lobelia niihauensis*—a	*Lobelia niihauensis.*	
Oahu 17—*Lobelia niihauensis*—b	*Lobelia niihauensis.*	
Oahu 20—*Lobelia oahuensis*—a	*Lobelia oahuensis.*	
Oahu 35—*Lobelia oahuensis*—b	*Lobelia oahuensis.*	
Oahu 20—*Lysimachia filifolia*—a	*Lysimachia filifolia.*	
Oahu 4—*Mariscus pennatiformis*—a	.....	*Mariscus pennatiformis.*
Oahu 4—*Mariscus pennatiformis*—b	.....	*Mariscus1 pennatiformis.*
Oahu 13—*Marsilea villosa*—a	*Marsilea villosa.*	
Oahu 14—*Marsilea villosa*—b	*Marsilea villosa.*	
Oahu 28—*Marsilea villosa*—c	*Marsilea villosa.*	
Oahu 29—*Marsilea villosa*—d	.....	*Marsilea villosa.*
Oahu 36—*Marsilea villosa*—e	.....	*Marsilea villosa.*
Oahu 20—*Melicope lydgatei*—a	*Melicope lydgatei.*	
Oahu 4—*Melicope pallida*—a	.....	*Melicope pallida.*
Oahu 15—*Melicope pallida*—b	.....	*Melicope pallida.*
Oahu 15—*Melicope pallida*—c	.....	*Melicope pallida.*
Oahu 15—*Melicope pallida*—d	.....	*Melicope pallida.*
Oahu 15—*Melicope pallida*—e	*Melicope pallida.*	
Oahu 15—*Melicope saint-johnii*—a	*Melicope saint-johnii.*	
Oahu 15—*Melicope saint-johnii*—b	*Melicope saint-johnii.*	
Oahu 20—*Myrsine juddii*—a	*Myrsine juddii.*	
Oahu 3—*Neraudia angulata*—a	*Neraudia angulata.*	
Oahu 4—*Neraudia angulata*—b	*Neraudia angulata.*	
Oahu 4—*Neraudia angulata*—c	.....	*Neraudia angulata.*
Oahu 4—*Neraudia angulata*—d	*Neraudia angulata.*	
Oahu 4—*Neraudia angulata*—e	*Neraudia angulata.*	
Oahu 15—*Neraudia angulata*—f	*Neraudia angulata.*	
Oahu 3—*Nototrichium humile*—a	*Nototrichium humile.*	
Oahu 4—*Nototrichium humile*—b	*Nototrichium humile.*	
Oahu 4—*Nototrichium humile*—c	*Nototrichium humile.*	
Oahu 4—*Nototrichium humile*—d	*Nototrichium humile.*	
Oahu 4—*Peucedanum sandwicense*—a	*Peucedanum sandwicense.*	
Oahu 20—*Phlegmariurus nutans*—a	*Phlegmariurus nutans.*	
Oahu 4—*Phyllostegia hirsuta*—a	*Phyllostegia hirsuta.*	
Oahu 15—*Phyllostegia hirsuta*—b	*Phyllostegia hirsuta.*	
Oahu 15—*Phyllostegia hirsuta*—c	*Phyllostegia hirsuta.*	
Oahu 20—*Phyllostegia hirsuta*—d	*Phyllostegia hirsuta.*	
Oahu 4—*Phyllostegia kaalaensis*—a	*Phyllostegia kaalaensis.*	
Oahu 4—*Phyllostegia kaalaensis*—b	*Phyllostegia kaalaensis.*	
Oahu 4—*Phyllostegia kaalaensis*—c	*Phyllostegia* kaalaensis.	
Oahu 4—*Phyllostegia kaalaensis*—d	.....	*Phyllostegia kaalaensis.*
Oahu 4—*Phyllostegia kaalaensis*—e	*Phyllostegia kaalaensis.*	
Oahu 15—*Phyllostegia kaalaensis*—f	*Phyllostegia kaalaensis.*	
Oahu 15—*Phyllostegia mollis*—a	*Phyllostegia mollis.*	

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

Unit name	Species occupied	Species unoccupied
Oahu 15—*Phyllostegia mollis*—b	*Phyllostegia mollis.*	
Oahu 15—*Phyllostegia parviflora*—a	.....	*Phyllostegia parviflora.*
Oahu 15—*Phyllostegia parviflora*—b	*Phyllostegia* parviflora.	
Oahu 15—*Phyllostegia parviflora*—c	*Phyllostegia parviflora.*	
Oahu 20—*Phyllostegia parviflora*—d	*Phyllostegia parviflora.*	
Oahu 4—*Plantago princeps*—a	*Plantago princeps.*	
Oahu 4—*Plantago princeps*—b	.....	*Plantago princeps.*
Oahu 15—*Plantago princeps*—c	*Plantago princeps.*	
Oahu 20—*Plantago princeps*—d	*Plantago princeps.*	
Oahu 20—*Plantago princeps*—e	.....	*Plantago princeps.*
Oahu 20—*Platanthera holochila*—a	.....	*Platanthera holochila.*
Oahu 20—*Platanthera holochila*—b	.....	*Platanthera holochila.*
Oahu 20—*Pteris lidgatei*—a	*Pteris lidgatei.*	
Oahu 20—*Pteris lidgatei*—b	*Pteris lidgatei.*	
Oahu 20—*Pteris lidgatei*—c	*Pteris lidgatei.*	
Oahu 4—*Sanicula mariversa*—a	.....	*Sanicula mariversa.*
Oahu 4—*Sanicula mariversa*—b	.....	*Sanicula mariversa.*
Oahu 4—*Sanicula mariversa*—c	*Sanicula mariversa.*	
Oahu 6—*Sanicula mariversa*—d	*Sanicula mariversa.*	
Oahu 15—*Sanicula mariversa*—e	.....	*Sanicula mariversa.*
Oahu 15—*Sanicula mariversa*—f	.....	*Sanicula mariversa.*
Oahu 20—*Sanicula purpurea*—a	*Sanicula purpurea.*	
Oahu 3—*Schiedea hookeri*—a	*Schiedea hookeri.*	
Oahu 4—*Schiedea hookeri*—b	*Schiedea hookeri.*	
Oahu 4—*Schiedea hookeri*—c	*Schiedea hookeri.*	
Oahu 4—*Schiedea hookeri*—d	*Schiedea hookeri.*	
Oahu 15—*Schiedea hookeri*—e	*Schiedea hookeri.*	
Oahu 15—*Schiedea hookeri*—f	*Schiedea hookeri.*	
Oahu 15—*Schiedea hookeri*—g	*Schiedea hookeri.*	
Oahu 4—*Schiedea kaalae*—a	*Schiedea kaalae.*	
Oahu 15—*Schiedea kaalae*—b	*Schiedea kaalae.*	
Oahu 15—*Schiedea kaalae*—c	*Schiedea kaalae.*	
Oahu 15—*Schiedea kaalae*—d	*Schiedea kaalae.*	
Oahu 20—*Schiedea kaalae*—e	*Schiedea kaalae.*	
Oahu 21—*Schiedea kaalae*—f	*Schiedea kaalae.*	
Oahu 1—*Schiedea kealiae*—a	*Schiedea kealiae.*	
Oahu 4—*Schiedea nuttallii*—a	*Schiedea nuttallii.*	
Oahu 15—*Schiedea nuttallii*—b	.....	*Schiedea nuttallii.*
Oahu 15—*Schiedea nuttallii*—c	.....	*Schiedea nuttallii.*
Oahu 1—*Sesbania tomentosa*—a	*Sesbania tomentosa.*	
Oahu 18—*Sesbania tomentosa*—b	.....	*Sesbania tomentosa.*
Oahu 4—*Silene lanceolata*—a	*Silene lanceolata.*	
Oahu 15—*Silene perlmanii*—a	.....	*Silene perlmanii.*
Oahu 15—*Silene perlmanii*—b	.....	*Silene perlmanii.*
Oahu 15—*Silene perlmanii*—c	.....	*Silene perlmanii.*
Oahu 15—*Silene perlmanii*—d	.....	*Silene perlmanii.*
Oahu 4—*Solanum sandwicense*—a	.....	*Solanum sandwicense.*
Oahu 15—*Solanum sandwicense*—b	.....	*Solanum sandwicense.*
Oahu 15—*Solanum sandwicense*—c	*Solanum sandwicense.*	
Oahu 5—*Spermolepis hawaiiensis*—a	*Spermolepis hawaiiensis.*	
Oahu 31—*Spermolepis hawaiiensis*—b	*Spermolepis hawaiiensis.*	
Oahu 15—*Stenogyne kanehoana*—a	*Stenogyne kanehoana.*	
Oahu 15—*Stenogyne kanehoana*—b	.....	*Stenogyne kanehoana.*
Oahu 4—*Tetramolopium filiforme*—a	*Tetramolopium filiforme.*	
Oahu 4—*Tetramolopium filiforme*—b	*Tetramolopium filiforme.*	
Oahu 4—*Tetramolopium lepidotum* ssp. *lepidotum*—a.	.....	*Tetramolopium lepidotum* ssp. *lepidotum.*
Oahu 4—*Tetramolopium lepidotum* ssp. *lepidotum*—b.	*Tetramolopium lepidotum* ssp. *lepidotum.*	
Oahu 15—*Tetramolopium lepidotum* ssp. *lepidotum*—c.	.....	*Tetramolopium lepidotum* ssp. *lepidotum.*
Oahu 15—*Tetramolopium lepidotum* ssp. *lepidotum*—d.	.....	*Tetramolopium lepidotum* ssp. *lepidotum.*
Oahu 15—*Tetramolopium lepidotum* ssp. *lepidotum*—e.	.....	*Tetramolopium lepidotum* ssp. *lepidotum.*
Oahu 15—*Tetramolopium lepidotum* ssp. *lepidotum*—f.	.....	*Tetramolopium lepidotum* ssp. *lepidotum.*
Oahu 20—*Tetraplasandra gymnocarpa*—a	*Tetraplasandra gymnocarpa.*	
Oahu 20—*Tetraplasandra gymnocarpa*—b	*Tetraplasandra gymnocarpa.*	
Oahu 20—*Tetraplasandra gymnocarpa*—c	*Tetraplasandra gymnocarpa.*	
Oahu 20—*Tetraplasandra gymnocarpa*—d	*Tetraplasandra gymnocarpa.*	
Oahu 35—*Tetraplasandra gymnocarpa*—e	*Tetraplasandra gymnocarpa.*	

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

Unit name	Species occupied	Species unoccupied
Oahu 35—*Tetraplasandra gymnocarpa*—f	*Tetraplasandra gymnocarpa.*	
Oahu 20—*Trematolobelia singularis*—a		*Trematolobelia singularis.*
Oahu 20—*Trematolobelia singularis*—b	*Trematolobelia singularis.*	
Oahu 34—*Trematolobelia singularis*—c		*Trematolobelia singularis.*
Oahu 35—*Trematolobelia singularis*—d	*Trematolobelia singularis.*	
Oahu 35—*Trematolobelia singularis*—e	*Trematolobelia singularis.*	
Oahu 4—*Urera kaalae*—a		*Urera kaalae.*
Oahu 4—*Urera kaalae*—b	*Urera kaalae.*	
Oahu 15—*Urera kaalae*—c	*Urera kaalae.*	
Oahu 15—*Urera kaalae*—d	*Urera kaalae.*	
Oahu 15—*Urera kaalae*—e	*Urera kaalae.*	
Oahu 15—*Urera kaalae*—f	*Urera kaalae.*	
Oahu 1—*Vigna o-wahuensis*—a		*Vigna o-wahuensis.*
Oahu 24—*Vigna o-wahuensis*—b		*Vigna o-wahuensis*
Oahu 25—*Vigna o-wahuensis*—c		*Vigna o-wahuensis*
Oahu 26—*Vigna o-wahuensis*—d		*Vigna o-wahuensis*
Oahu 4—*Viola chamissoniana* ssp. *chamissoniana*—a.		*Viola chamissoniana* ssp. *chamissoniana.*
Oahu 4—*Viola chamissoniana* ssp. *chamissoniana*—b.		*Viola chamissoniana* ssp. *chamissoniana.*
Oahu 4—*Viola chamissoniana* ssp. *chamissoniana*—c.	*Viola chamissoniana* ssp. *chamissoniana.*	
Oahu 10—*Viola chamissoniana* ssp. *chamissoniana*—d.		*Viola chamissoniana* ssp. *chamissoniana.*
Oahu15—*Viola chamissoniana* ssp. *chamissoniana*—e.		*Viola chamissoniana* ssp. *chamissoniana.*
Oahu 15—*Viola chamissoniana* ssp. *chamissoniana*—f.	*Viola chamissoniana* ssp. *chamissoniana.*	
Oahu 20—*Viola Oahuensis*—a	*Viola Oahuensis.*	
Oahu 35—*Viola Oahuensis*—b		*Viola Oahuensis.*

(306) Critical habitat unit descriptions and maps, and a description of primary constituent elements, for Family Poacae: *Panicum faurei* var. *carteri* on the island of Oahu is provided in 50 CFR 17.96(a).

(j) *Plants on Oahu; Constituent elements.*

(1) *Flowering plants.*

FAMILY AMARANTHACEAE: ***Nototrichium humile*** (KULUI)

Oahu 3—*Nototrichium humile*—a, Oahu 4—*Nototrichium humile*—b, Oahu 4—*Nototrichium humile*—c, and Oahu 4—*Nototrichium humile*—d, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Nototrichium humile* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Cliff faces, gulches, stream banks, or steep slopes in dry or mesic forests often dominated by *Diospyros sandwicensis* or *Sapindus oahuensis* and containing one or more of the following associated native plant species: *Abutilon sandwicense, Alyxia oliviformis, Antidesma pulvinatum, Artemisia australis, Bidens cervicata, Canavalia* sp., *Carex wahuensis, Charpentiera* sp., *Dodonaea viscosa, Elaeocarpus bifidus, Erythrina sandwicensis, Eugenia reinwardtiana, Hibiscus* sp., *Melanthera tenuis, Metrosideros polymorpha, Myoporum sandwicense, Myrsine lanaiensis, Nestegis sandwicensis, Peperomia* sp., *Pisonia umbellifera, Pleomele* sp., *Pouteria sandwicensis, Psydrax odorata, Rauvolfia sandwicensis, Reynoldsia sandwicensis, Sicyos* sp., *Stenogyne* sp., *Streblus pendulinus,* or *Syzygium sandwicensis*; and

(ii) Elevations between 185 and 806 m (607 and 2,644 ft).

FAMILY APIACAEAE: ***Peucedanum sandwicense*** (MAKOU)

Oahu 4—*Peucedanum sandwicense*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Peucedanum sandwicense* on Oahu. Within this unit, currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Cliffs, slopes, or ridges in *Metrosideros polymorpha* lowland mesic forest containing one or more of the following associated native plant species: *Artemisia australis*, *Carex meyenii*, *Dianella sandwicensis*, *Dodonaea viscosa*, *Eragrostis* sp., *Lepidium bidentatum* var. *o-waihiense*, *Melanthera integrifolia*, *Osteomeles anthyllidifolia*, *Peperomia remyi*, *Pittosporum halophilum*, *Plechtranthus parviflorus*, *Plumbago zeylanica*, *Portulaca lutea*, *Reynoldsia sandwicensis*, *Santalum ellipticum*, *Scaevola sericea*, *Schiedea globosa*, *Senna gaudichaudii*, or *Sida fallax;* and

(ii) Elevations between 469 and 977 m (1,538 and 3,205 ft).

FAMILY APIACEAE: ***Sanicula mariversa*** (NCN)

Oahu 4—*Sanicula mariversa*—a, Oahu 4—*Sanicula mariversa*—b, Oahu 4—*Sanicula mariversa*—c, Oahu 6—*Sanicula mariversa*—d, Oahu 15—*Sanicula mariversa*—e, and Oahu 15—*Sanicula mariversa*—f, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Sanicula mariversa* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Well-drained, dry slopes or rock faces in mesic shrublands or open grassy areas and containing one or more of the following associated native plant species: *Bidens torta*, *Carex meyenii*, *Doryopteris* sp., *Eragrostis* sp., *Metrosideros polymorpha*, or *Metrosideros tremuloides;* and

(ii) Elevations between 475 and 1,025 m (1,558 and 3,362 ft).

FAMILY APIACEAE: ***Sanicula purpurea*** (NCN)

Oahu 20—*Sanicula purpurea*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Sanicula purpurea* on Oahu. Within this unit, currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Open *Metrosideros polymorpha* mixed montane bogs or windswept shrublands within the cloud zone containing one or more of the following associated native plant species: *Bidens* sp., *Cheirodendron* sp., *Dicanthelium koolauense*, *Gahnia beechyi*, *Leptecophylla tameiameiae*, *Lycopodium* sp., *Machaerina angustifolia*, *Plantago pachyphylla*, *Sadleria pallida*, or *Vaccinium* sp.; and

(ii) Elevations between 415 and 871 m (1,361 and 2,857 ft).

FAMILY APIACEAE: ***Spermolepis hawaiiensis*** (NCN)

Oahu 5—*Spermolepis hawaiiensis*—a and Oahu 31—*Spermolepis hawaiiensis*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Spermolepis hawaiiensis* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Steep or vertical cliffs or the base of cliffs or ridges in coastal dry cliff vegetation containing one or more of the following associated native plant species: *Artemisia australis*, *Bidens* sp., *Dodonaea viscosa*, *Doryopteris* sp., *Heteropogon contortus*, *Santalum ellipticum*, or *Waltheria indica;* and

(ii) Elevations between 25 to 306 m (82 to 1,004 ft).

FAMILY ARALIACEAE: ***Tetraplasandra gymnocarpa*** (OHEOHE)

Oahu 20—*Tetraplasandra gymnocarpa*—a, Oahu 20—*Tetraplasandra gymnocarpa*—b, Oahu 20—*Tetraplasandra gymnocarpa*—c, Oahu 20—*Tetraplasandra gymnocarpa*—d, Oahu 35—*Tetraplasandra gymnocarpa*—e and Oahu 35—*Tetraplasandra gymnocarpa*—f, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Tetraplasandra gymnocarpa* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Windswept summit ridges, slopes, or gullies in wet or sometimes mesic lowland forests or shrublands and containing one or more of the following associated native plant species: *Acacia koa*, *Antidesma platyphyllum*, *Bidens* sp., *Bobea elatior*, *Broussaisia arguta*, *Cheirodendron* sp., *Cibotium chamissoi*,

Cibotium sp., *Cyanea humboltiana*, *Dicranopteris linearis*, *Diplopterygium pinnatum*, *Dubautia laxa*, *Freycinetia arborea*, *Hedyotis fosbergii*, *Hedyotis terminalis*, *Labordia* sp., *Lobelia hypoleuca*, *Machaerina angustifolia*, *Melicope* spp., *Metrosideros polymorpha*, *Myrsine fosbergii*, *Pouteria sandwicensis*, *Psychotria* spp., *Sadleria* sp., *Syzygium sandwicensis*, *Tetraplasandra oahuensis*, or *Wikstroemia* sp.; and

(ii) Elevations between 93 and 959 m (305 and 3,146 ft).

FAMILY ASTERACEAE: ***Dubautia herbstobatae*** (NAENAE)

Oahu 4—*Dubautia herbstobatae*—a, Oahu 4—*Dubautia herbstobatae*—b, and Oahu 7—*Dubautia herbstobatae*—c, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Dubautia herbstobatae* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Rock outcrops, ridges, moderate slopes, or vertical cliffs in dry or mesic shrubland containing one or more of the following associated native plant species: *Artemisia australis*, *Bidens torta*, *Carex meyenii*, *Chamaesyce celastroides*, *Dodonaea viscosa*, *Eragrostis variabilis*, *Metrosideros polymorpha*, or *Schiedea mannii;* and

(ii) Elevations between 473 and 975 m (1,551 and 3,198 ft).

FAMILY ASTERACEAE: ***Hesperomannia arborescens*** (NCN)

Oahu 4—*Hesperomannia arborescens*—a and Oahu 20—*Hesperomannia arborescens*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Hesperomannia arborescens* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Steep slopes, ridge tops, or gulches in lowland wet forests or shrublands and containing one or more of the following associated native plant species: *Acacia koa*, *Antidesma platyphyllum*, *Bobea elatior*, *Broussaisia arguta*, *Cheirodendron* sp., *Cibotium* sp., *Coprosma* sp., *Dicranopteris linearis*, *Dubautia* sp., *Hedyotis terminalis*, *Hibiscus arnottianus*, *Labordia sessilis*, *Machaerina angustifolia*, *Melicope* sp., *Metrosideros polymorpha*, *Myrsine* sp., *Nestegis sandwicensis*, *Perrottetia sandwicensis*, *Pipturus* sp., *Psychotria mariniana*, *Scaevola glabra*, *Scaevola gaudichaudiana*, *Syzygium sandwicensis*, *Tetraplasandra oahuensis*, or *Wikstroemia* sp.; and

(ii) Elevations between 110 and 1,025 m (361 and 3,362 ft).

FAMILY ASTERACEAE: ***Hesperomannia arbuscula*** (NCN)

Oahu 4—*Hesperomannia arbuscula*—a, Oahu 4—*Hesperomannia arbuscula*—b, Oahu 15—*Hesperomannia arbuscula*—c, Oahu 15—*Hesperomannia arbuscula*—d, and Oahu 15—*Hesperomannia arbuscula*—e, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Hesperomannia arbuscula* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Slopes or ridges in dry to wet forest dominated by *Acacia koa* or *Metrosideros polymorpha* containing one or more of the following associated native plant species: *Alyxia oliviformis*, *Antidesma* sp., *Bidens* sp., *Bobea elatior*, *Cyanea longiflora*, *Diospyros hillebrandii*, *Freycinetia arborea*, *Hedyotis terminalis*, *Hibiscus* sp., *Psychotria* sp., or *Syzygium sandwicensis;* and

(ii) Elevations between 370 and 1,053 m (1,214 and 3,454 ft).

FAMILY ASTERACEAE: ***Lipochaeta lobata*** VAR. ***leptophylla*** (NEHE)

Oahu 4—*Lipochaeta lobata* var. *leptophylla*—a and Oahu 15—*Lipochaeta lobata* var. *leptophylla*—b, 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 currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Cliffs, ridges, or slopes in dry or mesic shrubland containing one or more of the following associated native

plant species: *Artemisia australis*, *Bidens* sp., *Carex meyenii*, *Diospyros* sp., *Dodonaea viscosa*, *Eragrostis* sp., *Melanthera tenuis*, *Peperomia* sp., *Psydrax odorata*, or *Stenogyne* sp.; and

(ii) Elevations between 256 and 978 m (840 and 3,208 ft).

FAMILY ASTERACEAE: ***Lipochaeta tenuifolia*** (NEHE)

Oahu 4—*Lipochaeta tenuifolia*—a, Oahu 4—*Lipochaeta tenuifolia*—b, and Oahu 4—*Lipochaeta tenuifolia*—c, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Lipochaeta tenuifolia* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Ridgetops or bluffs in open areas or protected pockets of dry to mesic forests or shrublands or forests dominated by *Diospyros sandwicensis* and containing one or more of the following associated native plant species: *Artemisia australis*, *Bidens* sp., *Carex meyenii*, *Diospyros* sp., *Dodonaea viscosa*, *Doryopteris* sp., *Dubautia* sp., *Eragrostis* sp., *Myoporum sandwicense*, *Osteomeles anthyllidifolia*, *Psydrax odorata*, *Reynoldsia sandwicensis*, *Rumex* sp., *Sapindus oahuensis*, *Santalum* sp., or *Schiedea* sp.; and

(ii) Elevations between 110 and 978 m (361 and 3,208 ft).

FAMILY ASTERACEAE: ***Tetramolopium filiforme*** (NCN)

Oahu 4—*Tetramolopium filiforme*—a and Oahu 4—*Tetramolopium filiforme*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Tetramolopium filiforme* on Oahu. 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 cliff faces or ridges in dry or mesic forests containing one or more of the following associated native plant species: *Artemisia australis*, *Bidens torta*, *Carex meyenii*, *Dodonaea viscosa*, *Peperomia tetraphylla*, *Schiedea mannii*, *Schiedea* sp., or *Sida fallax;* and

(ii) Elevations between 352 and 978 m (1,155 and 3,208 ft).

FAMILY ASTERACEAE: ***Tetramolopium lepidotum*** SSP. ***lepidotum*** (NCN)

Oahu 4—*Tetramolopium lepidotum* ssp. *lepidotum*—a, Oahu 4—*Tetramolopium lepidotum* ssp. *lepidotum*—b, Oahu 15—*Tetramolopium lepidotum* ssp. *lepidotum*—c, Oahu 15—*Tetramolopium lepidotum* ssp. *lepidotum*—d, Oahu 15—*Tetramolopium lepidotum* ssp. *lepidotum*—e, and Oahu 15—*Tetramolopium lepidotum* ssp. *lepidotum*—f, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Tetramolopium lepidotum* ssp. *lepidotum* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Grassy ridgetops, slopes, or cliffs in windblown dry forests and containing one or more of the following associated native plant species: *Bidens* sp., *Carex wahuensis*, *Eragrostis* sp., or *Metrosideros polymorpha;* and

(ii) Elevations between 330 to 1,157 m (1,082 to 3,795 ft).

FAMILY BRASSICACEAE: ***Lepidium arbuscula*** (ANAUNAU)

Oahu 4—*Lepidium arbuscula*—a, Oahu 15—*Lepidium arbuscula*—b, and Oahu 15—*Lepidium arbuscula*—c, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Lepidium arbuscula* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Exposed ridge tops and cliff faces in mesic and dry vegetation communities containing one or more of the following associated native plant species: *Artemisia australis*, *Bidens* sp., *Carex meyenii*, *Carex wahuensis*, *Chamaesyce multiformis*, *Dodonaea viscosa*, *Dryopteris unidentata*, *Dubautia* sp., *Eragrostis* sp., *Leptecophylla tameiameiae*, *Lysimachia hillebrandii*, *Metrosideros polymorpha*, *Peperomia* sp., *Psydrax odorata*, *Rumex albescens*, *Schiedea ligustrina*, *Sida fallax*, or *Sophora chrysophylla;* and

(ii) Elevations between 246 and 978 m (430 and 3,208 ft).

FAMILY CAMPANULACEAE: ***Cyanea acuminata*** (HAHA)

Oahu 4—*Cyanea acuminata*—a and Oahu 20—*Cyanea acuminata*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea acuminata* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Slopes, ridges, or stream banks in *Metrosideros polymorpha-Dicranopteris linearis* or *Acacia koa-Metrosideros polymorpha* wet or mesic forest or shrubland, or *Diospyros sandwicensis-Metrosideros polymorpha* lowland mesic forest, and containing one or more of the following associated native plant species: *Antidesma* sp., *Broussaisia arguta*, *Chamaesyce* sp., *Charpentiera* sp., *Cyrtandra* spp., *Diplazium sandwichianum*, *Dryopteris sandwicensis*, *Dubautia laxa*, *Freycinetia arborea*, *Hedyotis centranthoides*, *Hedyotis* sp., *Hibiscus* sp., *Ilex anomala*, *Labordia* sp., *Machaerina* sp., *Melicope* spp., *Perrottetia sandwicensis*, *Phyllostegia* sp., *Pipturus albidus*, *Pisonia* sp., *Psychotria* sp., *Sadleria* sp., *Syzygium sandwicensis*, *Touchardia latifolia*, or *Wikstroemia* sp.; and

(ii) Elevations between 216 and 1,208 m (708 and 3,962 ft).

FAMILY CAMPANULACEAE: ***Cyanea crispa*** (NCN)

Oahu 20—*Cyanea crispa*—a, Oahu 20—*Cyanea crispa*—b, Oahu 21—*Cyanea crispa*—c, and Oahu 35—*Cyanea crispa*—d, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea crispa* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Slopes, moist gullies, or stream banks in open mesic forests or closed wet forests containing one or more of the following associated native plant species: *Antidesma platyphyllum*, *Boehmeria grandis*, *Broussaisia arguta*, *Christella cyatheoides*, *Cibotium chamissoi*, *Cyrtandra* spp., *Diospyros* sp., *Dubautia* sp., *Metrosideros polymorpha*, *Microsorum spectrum*, *Perrottetia sandwicensis*, *Pipturus albidus*, *Pisonia umbellifera*, *Psychotria* sp. or *Touchardia latifolia;* and

(ii) Elevations between 56 and 959 m (184 and 3,146 ft).

FAMILY CAMPANULACEAE: ***Cyanea grimesiana*** SSP. ***grimesiana*** (HAHA)

Oahu 20—*Cyanea grimesiana* ssp. *grimesiana*—a and Oahu 35—*Cyanea grimesiana* ssp. *grimesiana*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea grimesiana* ssp. *grimesiana* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Rocky or steep slopes of stream banks in mesic forest often dominated by *Metrosideros polymorpha* or *Metrosideros polymorpha* and *Acacia koa*, and containing one or more of the following associated native plant species: *Alyxia oliviformis*, *Antidesma* sp., *Bobea* sp., *Clermontia persicifolia*, *Coprosma* sp., *Cyanea angustifolia*, *Dicranopteris linearis*, *Diplazium sandwichianum*, *Joinvillea* sp., *Melicope* sp., *Myrsine* sp., *Nestegis sandwicensis*, *Psychotria* sp., *Syzygium sandwicensis*, or *Xylosma* sp.; and

(ii) Elevations between 114 and 746 m (374 and 2,447 ft).

FAMILY CAMPANULACEAE: ***Cyanea grimesiana*** SSP. ***obatae*** (HAHA)

Oahu 4—*Cyanea grimesiana* ssp. *obatae*—a, Oahu 15—*Cyanea grimesiana* ssp. *obatae*—b, Oahu 15—*Cyanea grimesiana* ssp. *obatae*—c, and Oahu 15—*Cyanea grimesiana* ssp. *obatae*—d, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea grimesiana* ssp. *obatae* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Steep, moist, shaded slopes in diverse mesic to wet lowland forests containing one or more of the following associated native plant species: *Acacia koa*, *Antidesma platyphyllum*, *Chamaesyce* sp., *Charpentiera obovata*, *Cibotium chamissoi*, *Claoxylon*

sandwicense, *Coprosma* sp., *Cyanea membranacea*, *Cyrtandra waianaeensis*, *Diplazium sandwichianum*, *Dryopteris unidentata*, *Dubautia* sp., *Freycinetia arborea*, *Hedyotis acuminata*, *Hedyotis terminalis*, *Metrosideros polymorpha*, *Myrsine lessertiana*, *Nothocestrum* sp., *Perrottetia sandwicensis*, *Pipturus albidus*, *Pisonia umbellifera*, *Pouteria sandwicensis*, *Psychotria hathewayi*, *Rumex* sp., *Selaginella arbuscula*, or *Streblus pendulinus;* and

(ii) Elevations between 404 and 1,092 m (1,325 and 3,528 ft).

FAMILY CAMPANULACEAE: ***Cyanea humboltiana*** (HAHA)

Oahu 20—*Cyanea humboltiana*—a, Oahu 20—*Cyanea humboltiana*—b, Oahu 20—*Cyanea humboltiana*—c, Oahu 20—*Cyanea humboltiana*—d, and Oahu 35—*Cyanea humboltiana*—e, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea humboltiana* on Oahu. 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 *Metrosideros polymorpha-Dicranopteris linearis* lowland shrubland containing one or more of the following associated native plant species: *Acacia koa*, *Bobea elatior*, *Broussaisia arguta*, *Cibotium chamissoi*, *Dubautia laxa*, *Hedyotis terminalis*, *Ilex anomala*, *Machaerina angustifolia*, *Melicope* sp., *Phyllostegia* sp., *Psychotria mariniana*, *Sadleria* sp., *Scaevola mollis*, *Syzygium sandwicensis*, *Wikstroemia* sp., or native ferns; and

(ii) Elevations between 319 and 959 m (856 and 3,146 ft).

FAMILY CAMPANULACEAE: ***Cyanea koolauensise*** (HAHA)

Oahu 20—*Cyanea koolauensis*—a, Oahu 20—*Cyanea koolauensis*—b, Oahu 35—*Cyanea koolauensis*—c, and Oahu 35—*Cyanea koolauensis*—d, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea koolauensis* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Slopes, stream banks, and ridge crests in wet *Metrosideros polymorpha-Dicranopteris linearis* forest or shrubland containing one or more of the following associated native plant species: *Acacia koa*, *Antidesma platyphyllum*, *Bidens* sp., *Bobea elatior*, *Broussaisia arguta*, *Cibotium* sp., *Diplopterygium pinnatum*, *Dubautia* sp., *Hedyotis* sp., *Machaerina* sp., *Melicope* sp., *Pittosporum* sp., *Pritchardia martii*, *Psychotria mariniana*, *Sadleria* sp., *Scaevola* sp., *Syzygium sandwicensis*, or *Wikstroemia* sp.; and

(ii) Elevations between 280 and 959 m (535 and 3,146 ft).

FAMILY CAMPANULACEAE: ***Cyanea longiflora*** (HAHA)

Oahu 4—*Cyanea longiflora*—a, Oahu 4—*Cyanea longiflora*—b, and Oahu 19—*Cyanea longiflora*—c, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea longiflora* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Steep slopes, bases of cliffs, or ridge crests in mesic *Acacia koa-Metrosideros polymorpha* lowland forest containing one or more of the following associated native plant species: *Antidesma* sp., *Cibotium* sp., *Coprosma* sp., *Dicranopteris linearis*, *Psychotria* sp., *Schiedea* sp., or *Syzygium sandwicensis;* and

(ii) Elevations between 146 and 1,191 m (479 and 3,906 ft).

FAMILY CAMPANULACEAE: ***Cyanea pinnatifida*** (HAHA)

Oahu 15—*Cyanea pinnatifida*—a, Oahu 15—*Cyanea pinnatifida*—b, and Oahu 15—*Cyanea pinnatifida*—c, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea pinnatifida* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Steep, wet, rocky slopes in diverse mesic forest containing one or more of the following associated native plant species: *Canavalia* sp., *Diplazium sandwichianum*, *Pipturus albidus*,

Pisonia sandwicensis, *Pisonia umbellifera*, *Psychotria* sp., *Strongylodon ruber*, or native ferns; and

(ii) Elevations between 450 and 881 m (1,476 and 2,890 ft).

FAMILY CAMPANULACEAE: ***Cyanea st.-johnii*** (HAHA)

Oahu 20—*Cyanea st.-johnii*—a and Oahu 35—*Cyanea st.-johnii*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea st.-johnii* on Oahu. 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, windswept slopes and ridges in *Metrosideros polymorpha* mixed lowland shrubland or *Metrosideros polymorpha-Dicranopteris linearis* lowland shrubland and containing one or more of the following associated native plant species: *Alyxia oliviformis*, *Antidesma* sp., *Bidens macrocarpa*, *Broussaisia arguta*, *Chamaesyce clusiifolia*, *Cibotium* sp., *Dubautia laxa*, *Freycinetia arborea*, *Hedyotis* sp., *Labordia* sp., *Machaerina angustifolia*, *Melicope* sp., *Psychotria* sp., *Sadleria pallida*, *Scaevola mollis*, *or Syzygium sandwicensis;* and

(ii) Elevations between 461 and 959 m (1,512 and 3,146 ft).

FAMILY CAMPANULACEAE: ***Cyanea superba*** (NCN)

Oahu 4—*Cyanea superba*—a, Oahu 4—*Cyanea superba*—b, Oahu 4—*Cyanea superba*—c, and Oahu 35—*Cyanea superba*—d, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea superba* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Sloping terrain on a well drained rocky substrate within mesic forest containing one or more of the following associated native plant species: *Diospyros* sp., *Hedyotis terminalis*, *Metrosideros polymorpha*, *Nestegis sandwicensis*, *Pisonia brunoniana*, *Psychotria* sp., or *Xylosma* sp.; and

(ii) Elevations between 232 and 872 m (761 and 2,991 ft).

FAMILY CAMPANULACEAE: ***Cyanea truncata*** (HAHA)

Oahu 20—*Cyanea truncata*—a and Oahu 21—*Cyanea truncata*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyanea truncata* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Windward slopes and stream banks in mesic to wet forests containing one or more of the following associated native plant species: *Cibotium chamissoi*, *Cyrtandra calpidicarpa*, *Cyrtandra laxiflora*, *Cyrtandra propinqua*, *Diospyros sandwicensis*, *Hibiscus arnottianus*, *Metrosideros polymorpha*, *Neraudia melastomifolia*, *Pipturus albidus*, or *Pisonia umbellifera;* and

(ii) Elevations between 54 and 705 m (177 and 2,312 ft).

FAMILY CAMPANULACEAE: ***Delissea subcordata*** (OHA)

Oahu 4—*Delissea subcordata*—a, Oahu 15—*Delissea subcordata*—b, Oahu 15—*Delissea subcordata*—c, Oahu 15—*Delissea subcordata*—d, Oahu 35—*Delissea subcordata*—e, and Oahu 35—*Delissea subcordata*—f, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Delissea subcordata* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Moderate to steep gulch slopes in mixed mesic forests containing one or more of the following associated native plant species: *Acacia koa*, *Alyxia oliviformis*, *Antidesma* sp., *Bobea* sp., *Claoxylon sandwicense*, *Chamaesyce multiformis*, *Charpentiera obovata*, *Diospyros hillebrandii*, *Diospyros sandwicensis*, *Hedyotis acuminata*, *Metrosideros polymorpha*, *Myrsine lanaiensis*, *Nestegis sandwicensis*, *Pisonia* sp., *Pouteria sandwicensis*, *Psychotria hathewayi*, *Psydrax odorata*, or *Streblus pendulinus;* and

(ii) Elevations between 179 and 928 m (587 and 3,044 ft).

FAMILY CAMPANULACEAE: ***Lobelia gaudichaudii*** SSP. ***koolauensis*** (NCN)

Oahu 20—*Lobelia gaudichaudii* ssp. *koolauensis*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Lobelia gaudichaudii* ssp. *koolauensis* on Oahu. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Moderate to steep slopes in *Metrosideros polymorpha* lowland wet shrublands or bogs and containing one or more of the following associated native plant species: *Bidens* sp., *Broussaisia arguta*, *Cibotium* sp., *Dicanthelium koolauense*, *Isachne distichophylla*, *Machaerina angustifolia*, *Melicope* sp., *Sadleria pallida*, *Scaevola* sp., or *Vaccinium dentatum;* and

(ii) Elevations between 383 and 867 m (1,256 and 2,844 ft).

FAMILY CAMPANULACEAE: ***Lobelia monostachya*** (NCN)

Oahu 30—*Lobelia monostachya*—a, Oahu 22—*Lobelia monostachya*—b, Oahu 33—*Lobelia monostachya*—c, and Oahu 35—*Lobelia monostachya*—d, identified in the legal descriptions in paragraph (i) of this section, constitutes critical habitat for *Lobelia monostachya* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Steep, sparsely vegetated cliffs in mesic shrubland containing one or more of the following associated native plant species: *Artemisia australis*, *Carex meyenii*, *Eragrostis* sp., or *Psilotum nudum;* and

(ii) Elevation between 79 and 592 m (259 to 1,942 ft).

FAMILY CAMPANULACEAE: ***Lobelia niihauensis*** (NCN)

Oahu 4—*Lobelia niihauensis*—a and Oahu 17—*Lobelia niihauensis*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Lobelia niihauensis* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Exposed mesic or dry cliffs or ledges and containing one or more of the following associated native plant species: *Artemisia* sp., *Bidens* sp., *Carex meyenii*, *Dodonaea viscosa*, *Doryopteris* sp., *Eragrostis* sp., *Leptecophylla tameiameiae*, *Melanthera tenuis*, *Osteomeles anthyllidifolia*, *Plectranthus parviflorus*, *Schiedea mannii*, or *Sida fallax;* and

(ii) Elevations between 407 to 926 m (1,335 to 3,037 ft).

FAMILY CAMPANULACEAE: ***Lobelia oahuensis*** (NCN)

Oahu 20—*Lobelia oahuensis*—a and Oahu 35—*Lobelia oahuensis*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Lobelia oahuensis* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Steep slopes on summit cliffs in cloudswept wet forests or in lowland wet shrubland that are frequently exposed to heavy wind and rain and containing one or more of the following associated native plant species: *Bidens* sp., *Broussaisia arguta*, *Cheirodendron trigynum*, *Cibotium* sp., *Dicranopteris linearis*, *Dubautia laxa*, *Freycinetia arborea*, *Hedyotis* sp., *Labordia hosakana*, *Lycopodium* sp., *Machaerina angustifolia*, *Melicope* sp., *Metrosideros polymorpha*, *Peperomia* sp., *Phyllostegia* sp., *Sadleria squarrosa*, *Scaevola* sp., *Syzygium sandwicensis*, *Vaccinium* sp., or *Wikstroemia* sp.; and

(ii) Elevations between 415 and 959 m (1,361 and 3,146 ft).

FAMILY CAMPANULACEAE: ***Trematolobelia singularis*** (NCN)

Oahu 20—*Trematolobelia singularis*—a, Oahu 20—*Trematolobelia singularis*—b, Oahu 34—*Trematolobelia singularis*—c, Oahu 35—*Trematolobelia singularis*—d, and Oahu 35—*Trematolobelia singularis*—e, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Trematolobelia singularis* on Oahu. Within these units, the currently known primary constituent elements of critical habitat

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

(i) Steep, windswept cliff faces or slopes in *Metrosideros polymorpha-Dicranopteris linearis* lowland wet shrubland and containing one or more of the following associated native plant species: *Broussaisia arguta*, *Cibotium* sp., *Dubautia laxa*, *Eugenia* sp., *Melicope* sp., *Sadleria* sp., or *Wikstroemia* sp.; and

(ii) Elevations between 545 and 953 m (1,788 and 3,126 ft).

FAMILY CARYOPHYLLACEAE: ***Alsinidendron obovatum*** (NCN)

Oahu 4—*Alsinidendron obovatum*—a, Oahu 4—*Alsinidendron obovatum*—b, and Oahu 15—*Alsinidendron obovatum*—c, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Alsinidendron obovatum* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Ridges and slopes in lowland diverse mesic forest dominated by *Acacia koa* and *Metrosideros polymorpha* and containing one or more of the following associated native plant species: *Alyxia oliviformis*, *Antidesma platyphyllum*, *Bidens torta*, *Cibotium chamissoi*, *Coprosma* sp., *Cyanea longiflora*, *Hedyotis terminalis*, *Ilex anomala*, *Machaerina* sp., *Peperomia* sp., *Perrottetia sandwicensis*, *Pipturus* sp., or *Psydrax odorata;* and

(ii) Elevations between 477 and 943 m (1,565 and 3,093 ft).

FAMILY CARYOPHYLLACEAE: ***Alsinidendron trinerve*** (NCN)

Oahu 4—*Alsinidendron trinerve*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Alsinidendron trinerve* on Oahu. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Slopes in wet forest or the wetter portions of diverse mesic forest dominated by *Metrosideros polymorpha* or *Ilex anomala* and *Metrosideros polymorpha* montane wet forest and containing one or more of the following associated native plant species: *Broussaisia arguta*, *Coprosma ochracea*, *Diplazium sandwichianum*, *Gunnera* sp., *Hedyotis* sp., *Machaerina* sp., *Nothoperanema rubiginosa*, *Peperomia* sp., *Perrottetia sandwicensis*, *Phyllostegia* sp., *Pipturus albidus*, or *Vaccinium* sp.; and

(ii) Elevations between 833 and 1,233 m (2,732 and 4,044 ft).

FAMILY CARYOPHYLLACEAE: ***Schiedea hookeri*** (NCN)

Oahu 3—*Schiedea hookeri*—a, Oahu 4—*Schiedea hookeri*—b, Oahu 4—*Schiedea hookeri*—c, Oahu 4—*Schiedea hookeri*—d, Oahu 15—*Schiedea hookeri*—e, Oahu 15—*Schiedea hookeri*—f, and Oahu 15—*Schiedea hookeri*—g, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Schiedea hookeri* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Slopes, cliffs or cliff bases, rock walls, or ledges in diverse mesic or dry lowland forest often dominated by *Metrosideros polymorpha*, *Diospyros sandwicensis*, or *Diospyros hillebrandii*, and containing one or more of the following associated native plant species: *Acacia koa*, *Alyxia oliviformis*, *Antidesma pulvinatum*, *Artemisia australis*, *Bidens torta*, *Carex meyenii*, *Carex wahuensis*, *Charpentiera tomentosa*, *Dodonaea viscosa*, *Elaeocarpus bifidus*, *Eragrostis grandis*, *Hibiscus* sp., *Leptecophylla tameiameiae*, *Melanthera tenuis*, *Pisonia sandwicensis*, *Pouteria sandwicensis*, *Psydrax odorata*, *Sida fallax*, or *Stenogyne* sp.; and

(ii) Elevations between 238 and 978 m (781 and 3,208 ft).

FAMILY CARYOPHYLLACEAE: ***Schiedea kaalae*** (MAOLIOLI)

Oahu 4—*Schiedea kaalae*—a, Oahu 15—*Schiedea kaalae*—b, Oahu 15—*Schiedea kaalae*—c, Oahu 15—*Schiedea kaalae*—d, Oahu 20—*Schiedea kaalae*—e, and Oahu 21—*Schiedea kaalae*—f, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Schiedea kaalae* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Steep slopes, cliffs, stream banks, or deep shade in diverse mesic or wet forests and containing one or more of the following associated native plant species: *Alyxia oliviformis*, *Boehmeria grandis*, *Charpentiera* sp., *Claoxylon sandwicense*, *Cyrtandra calpidicarpa*, *Cyrtandra laxiflora*, *Diospyros hillebrandii*, *Diplazium arnottii*, *Diplazium sandwichianum*, *Dryopteris unidentata*, *Freycinetia arborea*, *Hedyotis acuminata*, *Nothocestrum longifolium*, *Pipturus albidus*, *Pisonia sandwicensis*, *Pisonia umbellifera*, *Pouteria sandwicensis*, *Psychotria hathewayi*, *Selaginella arbuscula*, or *Xylosma hawaiiense;* and

(ii) Elevations between 64 and 904 m (210 and 2,965 ft).

FAMILY CARYOPHYLLACEAE: ***Schiedea kealiae*** (MAOLIOLI)

Oahu 1—*Schiedea kealiae*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Schiedea kealiae* on Oahu. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Steep slopes or cliff faces or bases in dry remnant *Erythrina sandwicensis* forest and containing one or more of the following associated native plant species: *Bidens* sp., *Hibiscus arnottianus*, *Lepidium bidentatum*, *Melanthera remyi*, *Myoporum sandwicense*, *Plumbago zeylanica*, *Psydrax odorata*, *Sicyos* sp., or *Sida fallax;* and

(ii) Elevations between 47 and 341 m (154 and 1,118 ft)

FAMILY CARYOPHYLLACEAE: ***Schiedea nuttallii*** (NCN)

Oahu 4—*Schiedea nuttallii*—a, Oahu 15—*Schiedea nuttallii*—b, and Oahu 15—*Schiedea nuttallii*—c, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Schiedea nuttallii* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Rock walls, forested slopes, or steep walls in *Acacia koa-Metrosideros polymorpha* lowland mesic forest or *Metrosideros polymorpha-Dodonaea viscosa* forest and containing one or more of the following associated native plant species: *Alyxia oliviformis*, *Antidesma platyphyllum*, *Bidens torta*, *Cibotium chamissoi*, *Coprosma* sp., *Cyanea longiflora*, *Hedyotis terminalis*, *Ilex anomala*, *Machaerina* sp., *Peperomia* sp., *Perrottetia sandwicensis*, *Pipturus* sp., or *Psydrax odorata;* and

(ii) Elevations between 408 and 1072 m (1,338 and 3,516 ft).

FAMILY CARYOPHYLLACEAE: ***Silene lanceolata*** (NCN)

Oahu 4—*Silene lanceolata*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Silene lanceolata* on Oahu. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Cliff faces or ledges of gullies in dry to mesic shrubland or cliff communities and containing one or more of the following associated native plant species: *Artemisia australis*, *Bidens* sp., *Carex* sp., *Chamaesyce* sp., *Dodonaea viscosa*, *Lysimachia* sp., *Osteomeles anthyllidifolia*, *Schiedea mannii*, or *Tetramolopium filiforme;* and

(ii) Elevations between 328 to 978 m (1,076 to 3,208 ft).

FAMILY CARYOPHYLLACEAE: ***Silene perlmanii*** (NCN)

Oahu 15—*Silene perlmanii*—a, Oahu 15—*Silene perlmanii*—b, Oahu 15—*Silene perlmanii*—c, and Oahu 15—*Silene perlmanii*—d, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Silene perlmanii* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Steep rocky slopes in *Acacia koa-Metrosideros polymorpha* lowland mesic forest; and

(ii) Elevations between 382 and 926 m (1,253 and 3,037 ft).

FAMILY CONVOLVULACEAE: ***Bonamia menziesii*** (NCN)

Oahu 2—*Bonamia menziesii*—a, Oahu 3—*Bonamia menziesii*—b, Oahu 4—

Bonamia menziesii—c, Oahu 17—*Bonamia menziesii*—d, and Oahu 35—*Bonamia menziesii*—e, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Bonamia menziesii* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Steep slopes or level ground in dry or mesic forest in open or closed canopy and containing one or more of the following associated native plant species: *Acacia koa*, *Alyxia oliviformis*, *Dianella sandwicensis*, *Diospyros sandwicensis*, *Dodonaea viscosa*, *Erythrina sandwicensis*, *Hedyotis terminalis*, *Leptecophylla tameiameiae*, *Melicope* sp., *Metrosideros polymorpha*, *Myoporum sandwicensis*, *Nestegis sandwicensis*, *Pisonia* sp., *Pittosporum* sp., *Pleomele* sp., *Pouteria sandwicensis*, *Psydrax odorata*, *Rauvolfia sandwicensis*, *Sapindus oahuensis*, *Sicyos* sp., *Sida fallax*, or *Waltheria indica;* and

(ii) Elevations between 81 and 658 m (266 and 2,158 ft).

FAMILY CYPERACEAE: *Cyperus trachysanthos* (PUUKAA)

Oahu 1—*Cyperus trachysanthos*—a, Oahu 28—*Cyperus trachysanthos*—b, Oahu 29—*Cyperus trachysanthos*—c, and Oahu 36—*Cyperus trachysanthos*—d, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyperus trachysanthos* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Mud flats, wet clay soil, seasonal ponds, wet cliff seeps on seepy flats, coastal cliffs, or talus slopes containing *Hibiscus tiliaceus;* and

(ii) Elevations between 6 and 194 m (20 and 636 ft).

FAMILY CYPERACEAE: *Mariscus pennatiformis* (NCN)

Oahu 4—*Mariscus pennatiformis*—a and Oahu 4—*Mariscus pennatiformis*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Mariscus pennatiformis* on Oahu. 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 and wet *Metrosideros polymorpha* forest and *Metrosideros polymorpha-Acacia koa* forest; and

(ii) Elevations between 424 and 1,032 m (1,391 and 3,385 ft).

FAMILY EUPHORBIACEAE: *Chamaesyce celastroides* VAR. *kaenana* (AKOKO)

Oahu 1—*Chamaesyce celastroides* var. *kaenana*—a, Oahu 3—*Chamaesyce celastroides* var. *kaenana*—b, Oahu 4—*Chamaesyce celastroides* var. *kaenana*—c, Oahu 5—*Chamaesyce celastroides* var. *kaenana*—d, and Oahu 35—*Chamaesyce celastroides* var. *kaenana*—e, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Chamaesyce celastroides* var. *kaenana* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Windward talus slopes, leeward rocky cliffs, open grassy slopes, or vegetated cliff faces in coastal dry shrubland and containing one or more of the following associated native plant species: *Artemisia australis*, *Boerhavia* sp., *Chamaesyce celastroides* var. *amplectans*, *Dodonaea viscosa*, *Gossypium tomentosum*, *Heteropogon contortus*, *Jacquemontia ovalifolia* ssp. *sandwicensis*, *Lipochaeta lobata*, *Myoporum sandwicense*, *Plumbago zeylanica*, *Psilotum nudum*, *Psydrax odorata*, *Santalum freycinetianum*, *Sida fallax* or *Waltheria indica;* and

(ii) Elevations between 1 and 862 m (3 and 2,827 ft).

FAMILY EUPHORBIACEAE: *Chamaesyce deppeana* (AKOKO)

Oahu 20—*Chamaesyce deppeana*—a and Oahu 35—*Chamaesyce deppeana*—b, identified in the legal description in paragraph (i) of this section, constitute critical habitat for *Chamaesyce deppeana* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Windward-facing ridge crests, cliff faces, and mixed native cliffs and containing one or more of the following associated native plant species: *Bidens sandvicensis* or *Metrosideros polymorpha*; and

(ii) Elevations from 274 to 661 m (899 to 2,168 ft).

FAMILY EUPHORBIACEAE: ***Chamaesyce herbstii*** (AKOKO)

Oahu 4—*Chamaesyce herbstii*—a, Oahu 15—*Chamaesyce herbstii*—b, and Oahu15—*Chamaesyce herbstii*—c, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Chamaesyce herbstii* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Shaded gulch bottoms and slopes in mesic *Acacia koa-Metrosideros polymorpha* lowland forests or diverse mesic forests and containing one or more of the following associated native plant species: *Antidesma platyphyllum, Coprosma* sp., *Diplazium sandwichianum, Hedyotis* sp., *Hibiscus arnottianus* var. *arnottianus, Melicope* sp., *Morinda trimera, Pipturus albidus, Pouteria sandwicensis, Pteralyxia* sp., *Urera glabra,* or *Xylosma* sp.; and

(ii) Elevations between 433 and 928 m (1,420 and 3,044 ft).

FAMILY EUPHORBIACEAE: ***Chamaesyce kuwaleana*** (AKOKO)

Oahu 9—*Chamaesyce kuwaleana*—a, Oahu 11—*Chamaesyce kuwaleana*—b, Oahu 12—*Chamaesyce kuwaleana*—c, Oahu 15—*Chamaesyce kuwaleana*—d, Oahu 22—*Chamaesyce kuwaleana*—e, Oahu 23—*Chamaesyce kuwaleana*—f, and Oahu 26—*Chamaesyce kuwaleana*—g, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Chamaesyce kuwaleana* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Thin guano soil on basaltic rock; arid, exposed volcanic cliffs; dry or mesic rocky ridges; or sparsely vegetated slopes and containing one or more of the following associated native plant species: *Artemisia* sp., *Bidens* sp., *Carex* sp., *Chamaesyce* sp., *Dodonaea viscosa, Heteropogon contortus, Plectranthus parviflorus, Schiedea* sp., or *Sida fallax*; and

(ii) Elevations between 0 and 596 m (0 and 1,955 ft).

FAMILY EUPHORBIACEAE: ***Chamaesyce rockii*** (AKOKO)

Oahu 20—*Chamaesyce rockii*—a, Oahu 20—*Chamaesyce rockii*—b, and Oahu 20—*Chamaesyce rockii*—c, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Chamaesyce rockii* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Gulch slopes, gulch bottoms, and ridge crests in wet *Metrosideros polymorpha-Dicranopteris linearis* forest and shrubland and containing one or more of the following associated native plant species: *Antidesma platyphyllum, Bidens* sp., *Broussaisia arguta, Cibotium* sp., *Coprosma longifolia, Diplopterygium pinnatum, Dubautia laxa, Hedyotis terminalis, Machaerina* sp., *Melicope* spp., *Myrsine juddii, Psychotria fauriei, Psychotria* spp., or *Wikstroemia* sp.; and

(ii) Elevations between 208 and 867 m (682 and 2,844 ft).

FAMILY EUPHORBIACEAE: ***Euphorbia haeleeleana*** (AKOKO)

Oahu 3—*Euphorbia haeleeleana*—a and Oahu 4—*Euphorbia haeleeleana*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Euphorbia haeleeleana* on Oahu. 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 forest dominated by *Diospyros* sp. and containing one or more of the following associated native plant species: *Dodonaea viscosa, Erythrina sandwicensis, Pleomele* sp., *Psydrax odorata, Reynoldsia sandwicensis,* or *Sapindus oahuensis*; and

(ii) Elevations between 156 and 526 m (512 and 1,725 ft).

FAMILY EUPHORBIACEAE: ***Flueggea neowawraea*** (MEHAMEHAME)

Oahu 4—*Flueggea neowawraea*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Flueggea neowawraea* on Oahu. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Gulch slopes, ridge crests, or near streams in dry or mesic forest and containing one or more of the following associated native plant species: *Alyxia oliviformis, Antidesma platyphyllum, Antidesma pulvinatum, Bobea* sp., *Chamaesyce herbstii, Chamaesyce multiformis, Charpentiera* sp., *Claoxylon sandwicense, Diospyros hillebrandii, Diospyros sandwicensis, Erythrina sandwicensis, Hedyotis terminalis, Hibiscus arnottianus, Metrosideros polymorpha, Morinda trimera, Myoporum sandwicense, Myrsine* sp., *Nestegis sandwicensis, Pipturus albidus, Pisonia sandwicensis, Pisonia umbellifera, Pittosporum* sp., *Pleomele* sp., *Psydrax odorata, Pteralyxia* sp., *Rauvolfia sandwicensis, Sapindus oahuensis,* or *Streblus pendulina*; and

(ii) Elevations between 335 to 1,006 m (1,099 to 3,300 ft).

FAMILY FABACEAE: ***Sesbania tomentosa*** (OHAI)

Oahu 1—*Sesbania tomentosa*—a and Oahu 18—*Sesbania tomentosa*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Sesbania tomentosa* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Cliff faces, broken basalt, or sand dunes with rock outcrops in *Scaevola sericea* coastal dry shrubland or *Sporobolus virginicus* mixed grasslands and containing one or more of the following associated native plant species: *Heliotropium* sp., *Jacquemontia ovalifolia* ssp. *sandwicensis, Melanthera* sp., *Myoporum sandwicense,* or *Sida fallax*; and

(ii) Elevations between sea level and 152 m (0 and 499 ft).

FAMILY FABACEAE: ***Vigna o-wahuensis*** (NCN)

Oahu 1—*Vigna o-wahuensis*—a, Oahu 24—*Vigna o-wahuensis*—b, Oahu 25—*Vigna o-wahuensis*—c, and Oahu 26—*Vigna o-wahuensis*—d, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Vigna o-wahuensis* on Oahu. 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 fossil reef, with shrubs or grasses or fairly steep slopes; and

(ii) Elevations between 0 and 301 m (0 and 987 ft).

FAMILY GENTIANACEAE: ***Centaurium sebaeoides*** (AWIWI)

Oahu 1—*Centaurium sebaeoides*—a and Oahu 27—*Centaurium sebaeoides*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Centaurium sebaeoides* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Volcanic or clay soils or cliffs in arid coastal areas or on coral plains and containing one or more of the following associated native plant species: *Artemisia* sp., *Bidens* sp., *Jacquemontia ovalifolia* ssp. *sandwicensis, Lipochaeta succulenta,* or *Lysimachia* sp.; and

(ii) Elevations between 1 and 161 m (3 and 528 ft).

FAMILY GESNERIACEAE: ***Cyrtandra dentata*** (HAIWALE)

Oahu 4—*Cyrtandra dentata*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Cyrtandra dentata* on Oahu. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Gulches, slopes, stream banks, or ravines in mesic or wet forest and containing one or more of the following associated native plant species: *Acacia koa, Metrosideros polymorpha, Pipturus albidus, Pisonia sandwicensis, Pisonia umbellifera, Pouteria sandwicensis,*

Syzygium sandwicensis, or *Urera glabra*; and

(ii) Elevations between 319 and 880 m (1,046 and 2,886 ft).

FAMILY GESNERIACEAE: ***Cyrtandra polyantha*** (HAIWALE)

Oahu 35—*Cyrtandra polyantha*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Cyrtandra polyantha* on Oahu. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Ridges of valleys in *Metrosideros polymorpha* mesic or wet forests and containing one or more of the following associated native plant species: *Broussaisia arguta*, *Coprosma foliosa*, *Dicranopteris linearis*, *Machaerina angustifolia*, or *Psychotria* sp.; and

(ii) Elevations between 312 and 783 m (1,023 and 2,568 ft).

FAMILY GESNERIACEAE: ***Cyrtandra subumbellata*** (HAIWALE)

Oahu 20—*Cyrtandra subumbellata*—a and Oahu 20—*Cyrtandra subumbellata*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cyrtandra subumbellata* on Oahu. 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 slopes or gulch bottoms in wet forest dominated by *Metrosideros polymorpha* or a mixture of *Metrosideros polymorpha-Dicranopteris linearis-Acacia koa* and containing one or more of the following associated native plant species: *Boehmeria grandis*, *Broussaisia arguta*, *Machaerina* sp., or *Thelypteris* sp.; and

(ii) Elevations between 167 and 841 m (548 and 2,758 ft).

FAMILY GESNERIACEAE: ***Cyrtandra viridiflora*** (HAIWALE)

Oahu 20—*Cyrtandra viridiflora*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Cyrtandra viridiflora* on Oahu. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Wind blown ridge tops in cloud-covered wet forest or shrubland and containing one or more of the following associated native plant species: *Broussaisia arguta*, *Cheirodendron platyphyllum*, *Dicranopteris linearis*, *Diplopterygium pinnatum*, *Dubautia* sp., *Freycinetia arborea*, *Hedyotis* sp., *Ilex anomala*, *Machaerina* sp., *Melicope* sp., *Metrosideros polymorpha*, *Metrosideros rugosa*, *Psychotria* sp., or *Syzygium sandwicensis*; and

(ii) Elevations between 443 and 867 m (1,453 and 2,844 ft).

FAMILY LAMIACEAE: ***Phyllostegia hirsuta*** (NCN)

Oahu 4—*Phyllostegia hirsuta*—a, Oahu 15—*Phyllostegia hirsuta*—b, Oahu 15—*Phyllostegia hirsuta*—c, and Oahu 20—*Phyllostegia hirsuta*—d, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Phyllostegia hirsuta* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Steep, shaded slopes, cliffs, ridges, gullies, or stream banks in mesic or wet forests dominated by *Metrosideros polymorpha* or a mixture of *Metrosideros polymorpha* and *Dicranopteris linearis* and containing one or more of the following associated native plant species: *Antidesma platyphyllum*, *Astelia* sp., *Broussaisia arguta*, *Chamaesyce multiformis*, *Cibotium* sp., *Claoxylon sandwicense*, *Clermontia kakeana*, *Coprosma longifolia*, *Cyanea membranacea*, *Cyrtandra waianaeensis*, *Diplazium sandwichianum*, *Dryopteris unidentata*, *Dubautia laxa*, *Dubautia sherffiana*, *Elaeocarpus bifidus*, *Freycinetia arborea*, *Hedyotis schlectendahliana*, *Hedyotis terminalis*, *Hibiscus* sp., *Ilex anomala*, *Labordia kaalae*, *Liparis hawaiiensis*, *Lysimachia hillebrandii*, *Machaerina angustifolia*, *Melicope* sp., *Myrsine lessertiana*, *Myrsine sandwicensis*, *Neraudia* sp., *Nothocestrum* sp., *Perrottetia sandwicensis*, *Phyllostegia grandiflora*, *Pipturus* sp., *Pisonia* sp., *Pleomele* sp., *Pouteria sandwicensis*, *Psychotria* sp., *Rumex albescens*, *Scaevola*

gaudichaudiana, *Streblus pendulinus*, *Zanthoxylum kauaense*, or native ferns; and

(ii) Elevations between 195 and 1,202 m (640 and 3,943 ft).

FAMILY LAMIACEAE: ***Phyllostegia kaalaensis*** (NCN)

Oahu 4—*Phyllostegia kaalaensis*—a, Oahu 4—*Phyllostegia kaalaensis*—b, Oahu 4—*Phyllostegia kaalaensis*—c, Oahu 4—*Phyllostegia kaalaensis*—d, Oahu 4—*Phyllostegia kaalaensis*—e, and Oahu 15—*Phyllostegia kaalaensis*—f, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Phyllostegia kaalaensis* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Gulch slopes or bottoms or almost vertical rock faces in mesic forest or *Sapindus oahuensis* forest and containing one or more of the following associated native plant species: *Antidesma platyphyllum*, *Claoxylon sandwicense*, *Diplazium sandwichianum*, *Freycinetia arborea*, *Hibiscus* sp., *Myrsine lanaiensis*, *Myrsine lessertiana*, *Neraudia melastomifolia*, *Pipturus albidus*, *Pouteria sandwicensis*, *Psychotria hathewayi*, *Streblus pendulinus*, or *Urera glabra*; and

(ii) Elevations between 248 and 878 m (813 and 2,880 ft).

FAMILY LAMIACEAE: ***Phyllostegia mollis*** (NCN)

Oahu 15—*Phyllostegia mollis*—a and Oahu 15—*Phyllostegia mollis*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Phyllostegia mollis* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Steep slopes or gulches in diverse mesic to wet forests and containing one or more of the following associated native plant species: *Acacia koa*, *Alyxia oliviformis*, *Antidesma platyphyllum*, *Carex meyenii*, *Chamaesyce multiformis*, *Claoxylon sandwicense*, *Diospyros hillebrandii*, *Dryopteris unidentata*, *Metrosideros polymorpha*, *Myrsine* sp., *Pipturus albidus*, *Pisonia umbellifera*, *Pouteria sandwicensis*, *Psychotria hathewayi*, or *Urera glabra*; and

(ii) Elevations between 519 to 928 m (1,702 to 3,044 ft).

FAMILY LAMIACEAE: ***Phyllostegia parviflora*** (NCN)

Oahu 20—*Phyllostegia parviflora*—d, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Phyllostegia parviflora* var. *lydgatei* on Oahu. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Moderate to steep slopes in mesic forest and containing one or more of the following associated native plant species: *Antidesma platyphyllum*, *Chamaesyce multiformis*, *Claoxylon sandwicense*, *Coprosma foliosa*, *Dryopteris unidentata*, *Myrsine lessertiana*, *Pipturus albidus*, *Pouteria sandwicensis*, *Selaginella arbuscula*, or *Xylosma hawaiiense*; and

(ii) Elevations between 529 to 881 m (1,800 to 2,890 ft).

Oahu 15—*Phyllostegia parviflora*—a, Oahu 15—*Phyllostegia parviflora*—b, and Oahu 15—*Phyllostegia parviflora*—c, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Phyllostegia parviflora* var. *parviflora* on Oahu. 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* mixed lowland wet forest and containing one or more of the following associated native plant species: *Antidesma* sp., *Broussaisia arguta*, *Cheirodendron* sp., *Cibotium* sp., *Cyrtandra* sp., *Dicranopteris linearis*, *Melicope* sp., *Phyllostegia glabra*, *Pipturus* sp., *Pritchardia* sp., *Tetraplasandra* sp., *Touchardia latifolia*, or *Syzygium sandwicensis;* and

(ii) Elevations between 232 to 881 m (761 to 2,890 ft).

FAMILY LAMIACEAE: ***Stenogyne kanehoana*** (NCN)

Oahu 15—*Stenogyne kanehoana*—a and Oahu 15—*Stenogyne kanehoana*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Stenogyne kanehoana* on Oahu. 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 mesic forest and containing one or more of the following associated native plant species: *Acacia koa*, *Alyxia oliviformis*, *Bidens* sp., *Chamaesyce* sp., *Cibotium* sp., *Freycinetia arborea*, *Metrosideros polymorpha*, *Psychotria* sp., or *Scaevola* sp.; and

(ii) Elevations between 559 and 1,168 m (1,834 and 3,831 ft).

FAMILY LOGANIACEAE: ***Labordia cyrtandrae*** (KAMAKAHALA)

Oahu 4—*Labordia cyrtandrae*—a, Oahu 20—*Labordia cyrtandrae*—b, and Oahu 20—*Labordia cyrtandrae*—c, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Labordia cyrtandrae* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Shady gulches, slopes, or glens in mesic to wet forests and shrublands dominated by *Metrosideros polymorpha*, *Diplopterygium pinnatum*, and/or *Acacia koa* and containing one or more of the following associated native plant species: *Antidesma* sp., *Artemisia australis*, *Bidens torta*, *Boehmeria grandis*, *Broussaisia arguta*, *Chamaesyce* sp., *Coprosma* sp., *Cyrtandra* sp., *Dicranopteris linearis*, *Diplazium sandwichianum*, *Dubautia plantaginea*, *Lysimachia hillebrandii*, *Peperomia membranacea*, *Perrottetia sandwicensis*, *Phyllostegia* sp., *Pipturus albidus*, *Pouteria sandwicensis*, *Psychotria* sp., or *Rumex* sp.; and

(ii) Elevations between 232 and 1,233 m (761 and 4,044 ft).

FAMILY MALVACEAE: ***Abutilon sandwicense*** (NCN)

Oahu 4—*Abutilon sandwicense*—a, Oahu 4—*Abutilon sandwicense*—b, Oahu 4—*Abutilon sandwicense*—c, Oahu 15—*Abutilon sandwicense*—d, Oahu 15—*Abutilon sandwicense*—e, and Oahu 17—*Abutilon sandwicense*—f, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Abutilon sandwicense* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Steep slopes or gulches in dry to mesic lowland forest and containing one or more of the following associated native plant species: *Antidesma pulvinatum*, *Diospyros sandwicensis*, *Elaeocarpus bifidus*, *Eugenia reinwardtiana*, *Hibiscus arnottianus*, *Metrosideros polymorpha*, *Myrsine lanaiensis*, *Nestegis sandwicensis*, *Pipturus albidus*, *Pisonia* sp., *Pittosporum* sp., *Pleomele* sp., *Psydrax odorata*, *Rauvolfia sandwicensis*, *Reynoldsia sandwicensis*, or *Sapindus oahuensis;* and

(ii) Elevations between 215 and 725 m (705 and 2,378 ft).

FAMILY MALVACEAE: ***Hibiscus brackenridgei*** (MAO HAU HELE)

(i) Oahu 1—*Hibiscus brackenridgei*—a and Oahu 4—*Hibiscus brackenridgei*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Hibiscus brackenridgei* ssp. *mokuleianus* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(A) Slopes, cliffs, or arid ledges in lowland dry forest or shrubland and containing one or more of the following associated native plant species: *Bidens amplectens*, *Chamaesyce* sp., *Diospyros hillebrandii*, *Dodonaea viscosa*, *Doryopteris* sp., *Erythrina sandwicensis*, *Heteropogon contortus*, *Lepidium bidentatum*, *Melanthera remyi*, *Pleomele halapepe*, *Psydrax odorata*, *Reynoldsia sandwicensis*, *Sida fallax*, or *Waltheria indica;* and

(B) Elevations between 32 to 490 m (105 to 1,607 ft).

(ii) Oahu 5—*Hibiscus brackenridgei*—c, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Hibiscus brackenridgei* ssp. *molokaiana* on Oahu. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(A) Dry shrublands containing one or more of the following associated native plant species: *Doryopteris sp.*, *Dodonaea viscosa*, *Heteropogon contortus*, *Sida fallax*, or *Waltheria indica;* and

(B) Elevations between 32 to 490 m (105 to 1,607 ft).

FAMILY MYRSINACEAE: ***Myrsine juddii*** (KOLEA)

Oahu 20—*Myrsine juddii*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Myrsine juddii* on Oahu. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Ridge crests or gulch slopes in wet forests or shrublands dominated by *Metrosideros polymorpha* or a mixture of *Metrosideros polymorpha* and *Dicranopteris linearis* and containing one or more of the following associated native plant species: *Cheirodendron platyphyllum*, *Cheirodendron trigynum*, *Machaerina* sp., *Melicope clusiifolia*, *Psychotria mariniana*, or *Syzygium sandwicensis;* and

(ii) Elevations between 384 and 867 m (1,260 and 2,844 ft).

FAMILY MYRTACEAE: ***Eugenia koolauensis*** (NIOI)

Oahu 4—*Eugenia koolauensis*—a, Oahu 19—*Eugenia koolauensis*—b, and Oahu 20—*Eugenia koolauensis*—c, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Eugenia koolauensis* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Gentle to steep slopes or ridges in mesic or dry forests dominated by *Metrosideros polymorpha* or *Diospyros* sp. and containing one or more of the following associated native plant species: *Alyxia oliviformis*, *Bobea elatior*, *Carex meyenii*, *Dicranopteris linearis*, *Leptecophylla tameiameiae*, *Myrsine lessertiana*, *Nestegis sandwicensis*, *Pleomele halapepe*, *Pouteria sandwicensis*, *Psydrax odorata*, or *Rauvolfia sandwicensis;* and

(ii) Elevations between 57 to 437 m (187 to 1,433 ft).

FAMILY ORCHIDACEAE: ***Platanthera holochila*** (NCN)

Oahu 20—*Platanthera holochila*—a and Oahu 20—*Platanthera holochila*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Platanthera holochila* on Oahu. 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-Dicranopteris linearis* wet forest or *Metrosideros polymorpha* mixed shrubland and containing one or more of the following associated native plant species: *Broussaisia arguta*, *Cibotium* sp., *Clermontia* sp., *Coprosma* sp., *Dubautia* sp., *Gahnia* sp., *Leptecophylla tameiameiae*, *Luzula hawaiiensis*, *Lycopodiella cernua*, *Lythrum maritimum*, *Polypodium pellucidum*, *Sadleria* sp., *Scaevola* sp., *Vaccinium reticulatum*, or *Wikstroemia* sp.; and

(ii) Elevations between 448 and 848 m (1,469 and 2,781 ft).

FAMILY PLANTAGINACEAE: ***Plantago princeps*** (LAUKAHI KUAHIWI)

(i) Oahu 20—*Plantago princeps*—d and Oahu 20—*Plantago princeps*—e, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Plantago princeps* var. *longibracteata* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(A) Sides of waterfalls or wet rock faces and containing one or more of the following associated native plant species: *Bidens* sp., *Coprosma granadensis*,

Eugenia sp., *Lobelia gaudichaudii*, *Metrosideros rugosa*, or *Scaevola glabra;* and

(B) Elevations between 211 and 885 m (692 and 2,903 ft).

(ii) Oahu 4—*Plantago princeps*—a, Oahu 4—*Plantago princeps*—b, and Oahu 15—*Plantago princeps*—c, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Plantago princeps* var. *princeps* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(A) Slopes or ledges in *Metrosideros polymorpha* lowland mesic forests or shrublands and containing one or more of the following associated native plant species: *Artemisia australis*, *Bidens* sp., *Chamaesyce* sp., *Dubautia plantaginea*, *Eragrostis* sp., *Lysimachia* sp., *Pilea peploides*, or *Viola* sp.; and

(B) Elevations between 110 and 1,064 m (361 and 3,490 ft).

FAMILY POACEAE: *Cenchrus agrimonioides* (KAMANOMANO)

Oahu 4—*Cenchrus agrimonioides*—a, Oahu 4—*Cenchrus agrimonioides*—b, Oahu 15—*Cenchrus agrimonioides*—c, and Oahu 15—*Cenchrus agrimonioides*—d, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Cenchrus agrimonioides* var. *agrimonioides* on Oahu. 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 ridges, upper slopes, or ridges in lowland mixed mesic forest and containing one or more of the following associated native plant species: *Acacia koa*, *Alyxia oliviformis*, *Bobea* sp., *Carex wahuensis*, *Chamaesyce multiformis*, *Coprosma foliosa*, *Diospyros sandwicensis*, *Eragrostis variabilis*, *Gahnia beecheyi*, *Leptecophylla tameiameiae*, *Metrosideros polymorpha*, *Nestegis sandwicensis*, *Psychotria* sp., or *Psydrax odorata;* and

(ii) Elevations between 357 and 874 m (1,171 and 2,867 ft).

FAMILY POACEAE: *Eragrostis fosbergii* (FOSBERG'S LOVE GRASS)

Oahu 4—*Eragrostis fosbergii*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Eragrostis fosbergii* on Oahu. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Ridge crests or moderate slopes in dry or mesic forests and containing one or more of the following associated native plant species: *Acacia koa*, *Alyxia oliviformis*, *Bidens* sp., *Chamaesyce* sp., *Dodonaea viscosa*, *Doodia* sp., *Eragrostis grandis*, *Melicope* sp., *Metrosideros polymorpha*, *Nephrolepis exaltata*, *Psydrax odorata*, or *Sphenomeris* sp.; and

(ii) Elevations between 578 and 941 m (1,896 and 3,086 ft).

FAMILY PRIMULACEAE: *Lysimachia filifolia* (NCN)

Oahu 20—*Lysimachia filifolia*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Lysimachia filifolia* on Oahu. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Mossy banks at the base of cliff faces within the spray zone of waterfalls or along streams in lowland wet forests and containing one or more of the following associated native plant species: Mosses, ferns, liverworts, or *Pilea peploides;* and

(ii) Elevations between 65 and 798 m (213 and 2,617 ft).

FAMILY RHAMNACEAE: *Colubrina oppositifolia* (KAUILA)

Oahu 4—*Colubrina oppositifolia*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Colubrina oppositifolia* on Oahu. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Lowland dry or mesic forests dominated by *Diospyros sandwicensis*

and containing one or more of the following associated native plant species: *Alyxia oliviformis*, *Nestegis sandwicensis*, *Psydrax odorata*, *Reynoldsia sandwicensis*, or *Sapindus oahuensis;* and

(ii) Elevations between 255 and 761 m (909 and 2,496 ft).

FAMILY RHAMNACEAE: ***Gouania meyenii*** (NCN)

Oahu 4—*Gouania meyenii*—a, Oahu 4—*Gouania meyenii*—b, Oahu 15—*Gouania meyenii*—c, and Oahu 31—*Gouania meyenii*—d, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Gouania meyenii* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Moderate to steep slopes in dry shrubland or mesic lowland forest and containing one or more of the following associated native plant species: *Alyxia oliviformis*, *Bidens* sp., *Canavalia* sp., *Carex meyenii*, *Chamaesyce* sp., *Charpentiera* sp., *Diospyros sandwicensis*, *Diospyros* sp., *Dodonaea viscosa*, *Dryopteris unidentata*, *Dubautia sherffiana*, *Eragrostis* sp., *Hedyotis* sp., *Hibiscus* sp., *Lysimachia* sp., *Melicope* sp., *Myrsine* sp., *Nestegis sandwicensis*, *Pisonia* sp., *Psychotria* sp., *Psydrax odorata*, *Sapindus oahuensis*, *Schiedea* sp., *Senna gaudichaudii*, *Sida fallax*, or *Sophora chrysophylla*; and

(ii) Elevations between 468 to 916 m (1,535 to 3,004 ft).

FAMILY RHAMNACEAE: ***Gouania vitifoliae*** (NCN)

Oahu 2—*Gouania vitifolia*—a, Oahu 3—*Gouania vitifolia*—b, Oahu 5—*Gouania vitifolia*—c, Oahu 4—*Gouania vitifolia*—d, Oahu 4—*Gouania vitifolia*—e, Oahu 4—*Gouania vitifolia*—f, Oahu 4—*Gouania vitifolia*—g, and Oahu 8—*Gouania vitifolia*—h, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Gouania vitifolia* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Sides of ridges or gulches in dry to mesic forests and containing one or more of the following associated native plant species: *Bidens* sp., *Carex meyenii*, *Chamaesyce* sp., *Diospyros sandwicensis*, *Dodonaea viscosa*, *Erythrina sandwicensis*, *Hedyotis* sp., *Hibiscus arnottianus*, *Melicope* sp., *Nestegis sandwicensis*, *Pipturus albidus*, *Psychotria* sp., or *Urera glabra*; and

(ii) Elevations between 50 to 944 m (164 to 3,096 ft).

FAMILY RUBIACEAE: ***Gardenia manniie*** (NANU)

Oahu 15—*Gardenia mannii*—a, Oahu 20—*Gardenia mannii*—b, and Oahu 20—*Gardenia mannii*—c, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Gardenia mannii* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Moderate to moderately steep gulch slopes, ridge crests, gulch bottoms, and stream banks in mesic or wet forests and containing one or more of the following associated native plant species: *Acacia koa*, *Alyxia oliviformis*, *Antidesma platyphyllum*, *Bobea* sp., *Boehmeria grandis*, *Broussaisia arguta*, *Cheirodendron* sp., *Cibotium* sp., *Coprosma foliosa*, *Dicranopteris linearis*, *Elaeocarpus* sp., *Freycinetia arborea*, *Hedyotis acuminata*, *Ilex anomala*, *Melicope* sp., *Metrosideros polymorpha*, *Perrottetia* sp., *Pipturus* sp., *Pisonia* sp., *Pouteria sandwicensis*, *Psychotria mariniana*, *Syzygium sandwicensis*, or *Thelypteris* sp.; and

(ii) Elevations between 239 and 1,050 m (784 and 3,444 ft).

FAMILY RUBIACEAE: ***Hedyotis coriaceae*** (KIOELE)

Oahu 15—*Hedyotis coriacea*—a and Oahu 35—*Hedyotis coriacea*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Hedyotis coriacea* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Steep, rocky slopes in dry to mesic *Dodonaea viscosa* dominated shrublands or forests and containing one or more of the following associated native plant species: *Alyxia oliviformis*,

Leptecophylla tameiameiae, or *Metrosideros polymorpha*; and

(ii) Elevations between 78 and 836 m (256 and 2,742 ft).

FAMILY RUBIACEAE: ***Hedyotis degeneri*** (NCN)

Oahu 4—*Hedyotis degeneri*—a and Oahu 4—*Hedyotis degeneri*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Hedyotis degeneri* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Ridge crests in diverse mesic forest and containing one or more of the following associated native plant species: *Alyxia oliviformis*, *Carex meyenii*, *Chamaesyce multiformis*, *Cocculus* sp., *Dicranopteris linearis*, *Diospyros sandwicensis*, *Dodonaea viscosa*, *Gahnia* sp., *Hedyotis terminalis*, *Leptecophylla tameiameiae*, *Lysimachia hillebrandii*, *Lobelia yuccoides*, *Metrosideros polymorpha*, *Pleomele* sp., *Psydrax odorata*, *Psychotria hathewayi*, or Wikstroemia oahuensis; and

(ii) Elevations between 360 and 1,083 m (1,181 and 3,552 ft).

FAMILY RUBIACEAE: ***Hedyotis parvula*** (NCN)

Oahu 4—*Hedyotis parvula*—a, Oahu 15—*Hedyotis parvula*—b, Oahu 15—*Hedyotis parvula*—c, and Oahu 15—*Hedyotis parvula*—d, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for Hedyotis parvula on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Cliff faces or their bases, rock outcrops, or ledges in mesic habitat and containing one or more of the following associated native plant species: *Bidens* sp., *Carex* sp., *Chamaesyce* sp., *Dodonaea viscosa*, *Eragrostis* sp., *Metrosideros polymorpha*, *Metrosideros tremuloides*, *Plectranthus parviflorus*, *Psydrax odorata*, or *Rumex* sp.; and

(ii) Elevations between 427 and 1,165 m (1,401 and 3,821 ft).

FAMILY RUTACEAE: ***Melicope lydgatei*** (ALANI)

Oahu 20—*Melicope lydgatei*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for Melicope lydgatei on Oahu. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Ridges in mesic or wet forests containing one or more of the following associated native plant species: *Acacia koa*, *Bobea elatior*, *Dicranopteris linearis*, M*etrosideros polymorpha*, *Psychotria* sp., or *Syzygium sandwicensis*; and

(ii) Elevations between 101 and 671 m (331 and 2,201 ft).

FAMILY RUTACEAE: ***Melicope pallida*** (ALANI)

Oahu 4—*Melicope pallida*—a, Oahu 15—*Melicope pallida*—b, Oahu 15—*Melicope pallida*—c, Oahu 15—*Melicope pallida*—d, and Oahu 15—*Melicope pallida*—e, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Melicope pallida* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Steep rock faces in lowland dry or mesic forests containing one or more of the following associated native plant species: *Abutilon sandwicense*, *Acacia koa*, *Alyxia oliviformis*, *Bobea elatior*, *Cibotium* sp., *Dryopteris* sp., *Metrosideros polymorpha*, *Pipturus albidus*, *Psychotria mariniana*, *Sapindus oahuensis*, *Syzygium sandwicensis*, *Tetraplasandra* sp., *Wikstroemia oahuensis*, or *Xylosma hawaiiense*; and

(ii) Elevations between 234 to 841 m (768 to 2,758 ft).

FAMILY RUTACEAE: ***Melicope saint-johnii*** (ALANI)

Oahu 15—*Melicope saint-johnii*—a and Oahu 15—*Melicope saint-johnii*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Melicope saint-johnii* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but

are not limited to, the habitat components provided by:

(i) Ridges or gulch bottoms in mesic forest containing one or more of the following associated native plant species: *Alyxia oliviformis*, *Artemisia australis*, *Bidens torta*, *Carex wahuensis*, *Coprosma longifolia*, *Eragrostis* sp., *Hedyotis schlechtendahliana*, *Labordia kaalae*, *Lysimachia hillebrandii*, *Metrosideros polymorpha*, *Panicum beechyi*, *Pittosporum* sp., *Pipturus albidus*, *Pleomele halapepe*, *Psychotria hathewayi*, or *Rumex albescens*; and

(ii) Elevations between 494 and 943 m (1,620 and 3,093 ft).

FAMILY SAPINDACEAE: ***Alectryon macrococcus*** (MAHOE)

Oahu 4—*Alectryon macrococcus*—a and Oahu 15—*Alectryon macrococcus*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Alectryon macrococcus* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Slopes, ridges, or gulches within mesic lowland forests containing one or more of the following associated native plant species: *Alyxia oliviformis*, *Antidesma platyphyllum*, *Canavalia* sp., *Charpentiera* sp., *Claoxylon sandwicense*, *Diospyros hillebrandii*, *Diospyros sandwicensis*, *Diplazium sandwichianum*, *Elaeocarpus bifidus*, *Hibiscus arnottianus*, *Metrosideros polymorpha*, *Myrsine lanaiensis*, *Neraudia* sp., *Nestegis sandwicensis*, *Pipturus albidus*, *Pisonia sandwicensis*, *Pisonia umbellifera*, *Pouteria sandwicensis*, *Psychotria hathewayi*, *Psydrax odorata*, *Streblus pendulinus*, or *Xylosma* sp.; and

(ii) Elevations between 476 and 820 m (1,561 and 2,690 ft).

FAMILY SOLANACEAE: ***Solanum sandwicense*** (AIAKEAAKUA, POPOLO)

Oahu 4—*Solanum sandwicense*—a, Oahu 15—*Solanum sandwicense*—b, and Oahu 15—*Solanum sandwicense*—c, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Solanum sandwicense* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Talus slopes or streambeds in open, sunny areas containing one or more of the following associated native plant species: *Pisonia* sp. or *Psychotria* sp.; and

(ii) Elevations between 471 and 1,006 m (1,545 and 3,300 ft).

FAMILY URTICACEAE: ***Neraudia angulata*** (NCN)

(i) Oahu 3—*Neraudia angulata*—a, Oahu 4—*Neraudia angulata*—b, Oahu 4—*Neraudia angulata*—c, Oahu 4—*Neraudia angulata*—d, Oahu 4—*Neraudia angulata*—e, and Oahu 15—*Neraudia angulata*—f, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Neraudia angulata* var. *angulata* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(A) Slopes, ledges, or gulches in lowland mesic or dry forest containing one or more of the following associated native plant species: *Artemisia australis*, *Bidens* sp., *Carex meyenii*, *Diospyros* sp., *Dodonaea viscosa*, *Hibiscus* sp., *Nestegis sandwicensis*, *Pisonia sandwicensis*, *Psydrax odorata*, or *Sida fallax*; and

(B) Elevations between 134 and 881 m (440 and 2,890 ft).

(ii) Oahu 3—*Neraudia angulata*—a, Oahu 4—*Neraudia angulata*—b, Oahu 4—*Neraudia angulata*—c, Oahu 4—*Neraudia angulata*—d, Oahu 4—*Neraudia angulata*—e, and Oahu 15—*Neraudia angulata*—f, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Neraudia angulata* var. *dentata* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(A) Cliffs, rock embankments, gulches, or slopes in mesic or dry forests containing one or more of the following associated native plant species: *Alyxia oliviformis*, *Antidesma pulvinatum*, *Artemisia australis*, *Bidens torta*, *Canavalia* sp., *Carex* sp., *Charpentiera* sp., *Diospyros hillebrandii*, *Diospyros sandwicensis*, *Dodonaea viscosa*,

Eragrostis sp., *Hibiscus* sp., *Metrosideros polymorpha*, *Myrsine lanaiensis*, *Nestegis sandwicensis*, *Pisonia* sp., *Psydrax odorata*, *Rauvolfia sandwicensis*, *Sapindus oahuensis*, *Sida fallax*, or *Streblus pendulinus*; and

(B) Elevations between 134 and 881 m (440 and 2,890 ft).

FAMILY URTICACEAE: ***Urera kaalae (opuhe)***

Oahu 4—*Urera kaalae*—a, Oahu 4—*Urera kaalae*—b, Oahu 15—*Urera kaalae*—c, Oahu 15—*Urera kaalae*—d, Oahu 15—*Urera kaalae*—e, and Oahu 15—*Urera kaalae*—f, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Urera kaalae* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Slopes or gulches in diverse mesic forest containing one or more of the following associated native plant species: *Alyxia oliviformis*, *Antidesma platyphyllum*, *Asplenium kaulfusii*, *Athyrium* sp., *Canavalia* sp., *Chamaesyce* sp., *Charpentiera* sp., *Claoxylon sandwicense*, *Diospyros hillebrandii*, *Doryopteris* sp., *Freycinetia arborea*, *Hedyotis acuminata*, *Hibiscus* sp., *Nestegis sandwicensis*, *Pipturus albidus*, *Pleomele* sp., *Pouteria sandwicensis*, *Psychotria* sp., *Senna gaudichaudii*, *Streblus pendulinus*, *Urera glabra*, or *Xylosma hawaiiense*; and

(ii) Elevations between 439 and 995 m (1,440 and 3,264 ft).

FAMILY VIOLACEAE: ***Isodendrion laurifolium (aupaka)***

Oahu 4—*Isodendrion laurifolium*—a, Oahu 4—*Isodendrion laurifolium*—b, and Oahu 35—*Isodendrion laurifolium*—c, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Isodendrion laurifolium* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Gulch slopes, ravines, or ridges in diverse mesic or dry forest dominated by *Metrosideros polymorpha*, *Acacia koa*, *Eugenia reinwardtiana*, or *Diospyros sandwicensis* and containing one or more of the following associated native plant species: *Alyxia oliviformis*, *Antidesma platyphyllum*, *Antidesma pulvinatum*, *Carex wahuensis*, *Charpentiera tomentosa*, *Doodia* sp., *Dryopteris unidentata*, *Hedyotis terminalis*, *Hibiscus arnottianus*, *Nestegis sandwicensis*, *Pisonia* sp., *Pouteria sandwicensis*, *Psydrax odorata*, *Rauvolfia sandwicensis*, *Sapindus* sp., *Smilax melastomifolia*, or *Xylosma hawaiiense*; and

(ii) Elevations between 180 and 959 m (590 and 3,146 ft).

FAMILY VIOLACEAE: ***Isodendrion longifolium*** (AUPAKA)

Oahu 4—*Isodendrion longifolium*—a and Oahu 20—*Isodendrion longifolium*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Isodendrion longifolium* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Steep slopes or stream banks in mixed mesic or lowland wet *Metrosideros polymorpha-Dicranopteris linearis* forest containing one or more of the following associated native plant species: *Acacia koa*, *Alyxia oliviformis*, *Antidesma* sp., *Bobea brevipes*, *Carex* sp., *Cyanea* sp., *Cyrtandra* sp., *Hedyotis terminalis*, *Isachne pallens*, *Melicope* sp., *Peperomia* sp., *Perrottetia sandwicensis*, *Pittosporum* sp., *Pouteria sandwicensis*, *Psydrax odorata*, *Psychotria* sp., *Selaginella arbuscula*, or *Syzygium sandwicensis;* and

(ii) Elevations between 316 and 880 m (1,036 and 2,886 ft).

FAMILY VIOLACEAE: ***Isodendrion pyrifolium*** (WAHINE NOHO KULA)

Oahu 5—*Isodendrion pyrifolium*—a, Oahu 16—*Isodendrion pyrifolium*—b, and Oahu 17—*Isodendrion pyrifolium*—c, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Isodendrion pyrifolium* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by bare rocky hills or wooded ravines in dry

shrublands from 37 to 692 m (121 to 2,270 ft).

FAMILY VIOLACEAE: ***Viola chamissoniana*** SSP. ***chamissoniana*** (PAMAKANI)

Oahu 4—*Viola chamissoniana* ssp. *chamissoniana*—a, Oahu 4—*Viola chamissoniana ssp. chamissoniana*—b, Oahu 4—*Viola chamissoniana* ssp. *chamissoniana*—c, Oahu 10—*Viola chamissoniana* ssp. *chamissoniana*—d, Oahu 15—*Viola chamissoniana* ssp. *chamissoniana*—e, and Oahu15—*Viola chamissoniana* ssp. *chamissoniana*—f, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Viola chamissoniana* ssp. *chamissoniana* on Oahu. 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 cliffs, rocky ledges, or steep slopes in mesic shrubland or cliff vegetation and containing one or more of the following associated native plant species: *Artemisia australis*, *Bidens torta*, *Carex meyenii*, *Chamaesyce* sp., *Dodonaea viscosa*, *Dubautia* sp., *Eragrostis* sp., *Leptecophylla tameiameiae*, *Melanthera tenuis*, *Metrosideros polymorpha*, *Peperomia* sp., *Rumex* sp., *Schiedea* sp., or *Sida fallax;* and

(ii) Elevations between 468 and 1,149 m (1,535 and 3,769 ft).

FAMILY VIOLACEAE: ***Viola oahuensis*** (NCN)

Oahu 20—*Viola oahuensis*—a and Oahu 35—*Viola oahuensis*—b, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Viola oahuensis* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Exposed, windswept ridges of moderate to steep slope in wet *Metrosideros polymorpha-Dicranopteris linearis* shrublands or *Metrosideros polymorpha* mixed montane bogs in the cloud zone and containing one or more of the following associated native plant species: *Antidesma* sp., *Bidens macrocarpa*, *Broussaisia arguta*, *Cibotium* sp., *Dubautia laxa*, *Hedyotis terminalis*, *Labordia* sp., *Machaerina* sp., *Melicope* sp., *Sadleria* sp., *Syzygium sandwicensis*, *Vaccinium* sp., or *Wikstroemia* sp.; and

(ii) Elevations between 415 and 959 m (1,361 and 3,146 ft).

(2) *Ferns and allies.*

FAMILY ADIANTACEAE: ***Pteris lidgatei*** (NCN)

Oahu 20—*Pteris lidgatei*—a, Oahu 20—*Pteris lidgatei*—b, and Oahu 20—*Pteris lidgatei*—c, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Pteris lidgatei* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Steep stream banks or cliffs in wet *Metrosideros polymorpha-Dicranopteris linearis* forest containing one or more of the following associated native plant species: *Asplenium* sp., *Broussaisia arguta*, *Cibotium chamissoi*, *Cyrtandra* sp., *Dicranopteris linearis*, *Diplopterygium pinnatum*, *Doodia lyonii*, *Dryopteris sandwicensis*, *Elaphoglossum crassifolium*, *Isachne pallens*, *Machaerina angustifolia*, *Sadleria* sp., *Sadleria squarrosa*, *Selaginella arbuscula*, or *Sphenomeris chinensis;* and

(ii) Elevations between 75 and 867 m (246 and 2,844 ft).

FAMILY ASPLENIACEAE: ***Ctenitis squamigera*** (PAUOA)

Oahu 4—*Ctenitis squamigera*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Ctenitis squamigera* on Oahu. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Gentle to steep slopes in *Metrosideros polymorpha-Diospyros sandwicensis* mesic forest or diverse mesic forest and containing one or more of the following associated native plant species: *Alyxia oliviformis*, *Carex meyenii*, *Diospyros hillebrandii*, *Dodonaea viscosa*, *Doodia kunthiana*, *Dryopteris unidentata*, *Freycinetia arborea*, *Hibiscus* sp., *Myrsine* sp., *Nestegis sandwicensis*, *Pisonia* sp., *Pouteria sandwicensis*, *Psychotria* sp., *Psydrax odorata*, or *Xylosma* sp.; and

(ii) Elevations between 413 to 923 m (1,355 to 3,027 ft).

FAMILY ASPLENIACEAE: ***Diellia erecta*** (ASPLENIUM-LEAVED DIELLIA)

Oahu 35—*Diellia erecta*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Diellia erecta* on Oahu. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Moderate to steep gulch slopes or sparsely vegetated rock faces in mesic forest containing one or more of the following associated native plant species: *Coprosma* sp., *Dodonaea viscosa*, *Dryopteris unidentata*, *Myrsine* sp., *Psychotria* sp., *Psydrax odorata*, *Sapindus oahuensis*, *Syzygium sandwicensis*, or *Wikstroemia* sp.; and

(ii) Elevations between 150 and 550 m (492 and 1,804 ft).

FAMILY ASPLENIACEAE: ***Diellia falcata*** (NCN)

Oahu 4—*Diellia falcata*—a, Oahu 4—*Diellia falcata*—b, Oahu 15—*Diellia falcata*—c, and Oahu 15—*Diellia falcata*—d, identified in the legal descriptions in paragraph (i) of this section, constitute critical habitat for *Diellia falcata* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Deep shade or open understory on moderate to moderately steep slopes and gulch bottoms in diverse mesic forest containing one or more of the following associated native plant species: *Acacia koa*, *Alyxia oliviformis*, *Antidesma* sp., *Asplenium kaulfussii*, *Carex meyenii*, *Charpentiera* sp., *Claoxylon sandwicense*, *Coprosma foliosa*, *Diospyros hillebrandii*, *Diospyros sandwicensis*, *Diplazium sandwichianum*, *Doodia kunthiana*, *Dryopteris unidentata*, *Elaeocarpus bifidus*, *Freycinetia arborea*, *Hedyotis terminalis*, *Hibiscus* sp., *Melicope* sp., *Metrosideros polymorpha*, *Myrsine lanaiensis*, *Nephrolepis exaltata*, *Nestegis sandwicensis*, *Nothocestrum* sp., *Pipturus* sp., *Pisonia sandwicensis*, *Pouteria sandwicensis*, *Psychotria* sp., *Psydrax odorata*, *Sapindus oahuensis*, *Selaginella arbuscula*, *Sophora chrysophylla*, or *Xylosma* sp.; and

(ii) Elevations between 394 and 932 m (1,292 and 3,057 ft).

FAMILY ASPLENIACEAE: ***Diellia unisora*** (NCN)

Oahu 15—*Diellia unisora*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Diellia unisora* on Oahu. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Moderate to steep slopes or gulch bottoms in deep shade or open understory in mesic forest and containing one or more of the following associated native plant species: *Acacia koa*, *Alyxia oliviformis*, *Antidesma* sp., *Bidens torta*, *Carex meyenii*, *Chamaesyce multiformis*, *Coprosma* sp., *Dodonaea viscosa*, *Dryopteris unidentata*, *Eragrostis grandis*, *Hedyotis schlechtendahliana*, *Hedyotis terminalis*, *Metrosideros polymorpha*, *Myrsine lessertiana*, *Psychotria* sp., *Rumex* sp., or *Selaginella arbuscula;* and

(ii) Elevations between 489 and 943 m (1,604 and 3,093 ft).

FAMILY ASPLENIACEAE: ***Diplazium molokaiense*** (NCN)

Oahu 4—*Diplazium molokaiense*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Diplazium molokaiense* on Oahu. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Steep rocky wooded gulch walls in wet forests; and

(ii) Elevations between 618 and 1,202 m (2,027 and 3,943 ft).

FAMILY GRAMMITIDACEAE: ***Adenophorus periens*** (PENDENT KIHI FERN)

Oahu 20—*Adenophorus periens*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Adenophorus periens* on Oahu. Within this unit, the currently known primary

constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Trees in *Metrosideros polymorpha* or *Metrosideros rugosa* wet forests containing one or more of the following associated native plant species: *Cheirodendron* spp., *Cibotium* sp. *Dicranopteris linearis, Hedyotis terminalis, Machaerina angustifolia,* or *Syzygium sandwicensis;* and

(ii) Elevations between 309 to 867 m (1,014 to 2,844 ft).

FAMILY LYCOPODIACEAE: ***Phlegmariurus nutans*** (WAWAEIOLE)

Oahu 20—*Phlegmariurus nutans*—a, identified in the legal description in paragraph (i) of this section, constitutes critical habitat for *Phlegmariurus nutans* on Oahu. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Tree trunks, open ridges, forested slopes, or cliffs in *Metrosideros polymorpha* dominated wet forests, cliffs, or shrublands or mesic forests and containing one or more of the following associated native plant species: *Antidesma platyphyllum, Broussaisia arguta, Cyrtandra laxiflora, Dicranopteris linearis, Elaphoglossum* sp., *Hedyotis terminalis, Hibiscus* sp., *Machaerina angustifolia, Psychotria mariniana, Syzygium sandwicensis,* or *Wikstroemia oahuensis;* and

(ii) Elevations between 227 and 846 m (745 and 2,775).

FAMILY MARSILEACEAE: ***Marsilea villosa*** (IHI IHI)

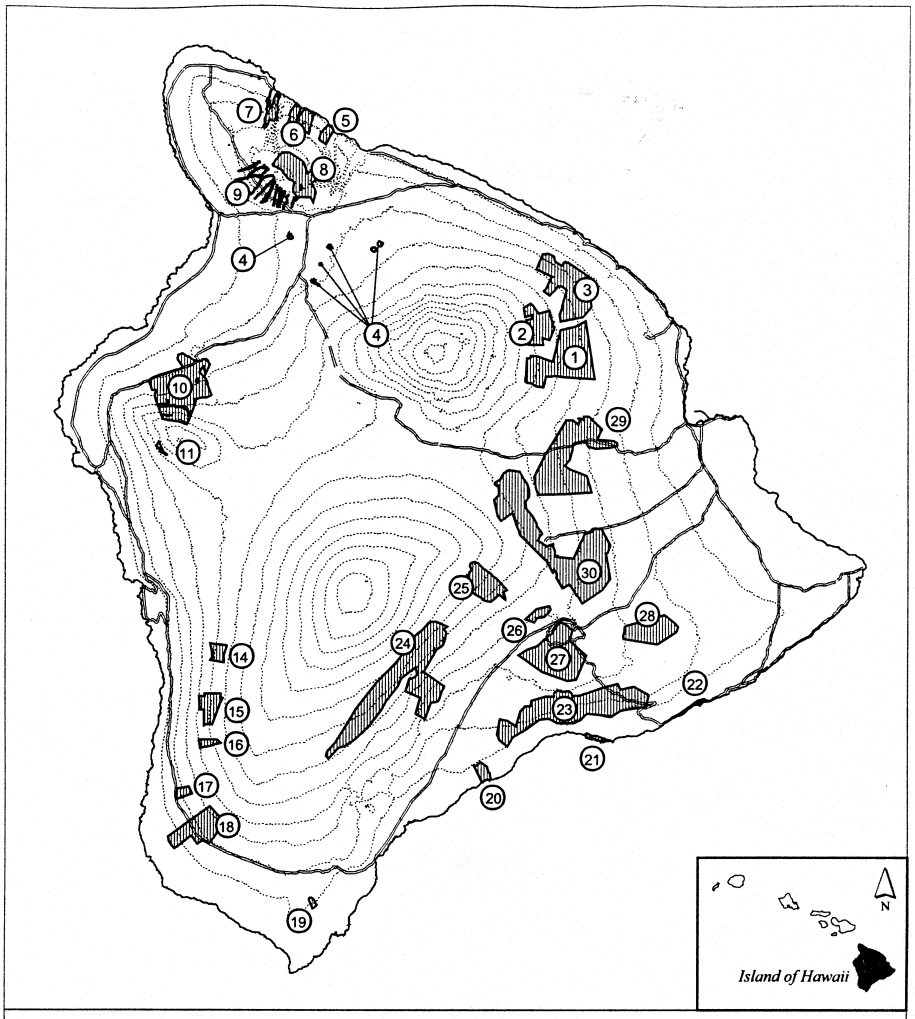
Oahu 13—*Marsilea villosa*—a, Oahu 14—*Marsilea villosa*—b, Oahu 28—*Marsilea villosa*—c, Oahu 29—*Marsilea villosa*—d, and Oahu 36—*Marsilea villosa*—e, identified in the legal description in paragraph (i) of this section, constitute critical habitat for *Marsilea villosa* on Oahu. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Cinder craters, vernal pools surrounded by lowland dry forest vegetation, mud flats, or lowland grasslands containing *Sida fallax*; and

(ii) Elevations between 1 and 89 m (3 and 292 ft).

(k) *Maps and critical habitat unit descriptions for the island of Hawaii, HI.* The following sections contain the legal descriptions of the critical habitat units designated for the island of Hawaii. Existing manmade features and structures within the boundaries of the mapped unit, such as buildings, roads, aqueducts and other water system features (including but not limited to pumping stations, irrigation ditches, pipelines, siphons, tunnels, water tanks, gaging stations, intakes, reservoirs, diversions, flumes, and wells; existing trails), campgrounds and their immediate surrounding landscaped area, scenic lookouts, remote helicopter landing sites, existing fences, telecommunications towers and associated structures and equipment, electrical power transmission lines and distribution and communication facilities and regularly maintained associated rights-of-way and access ways, radars, telemetry antennas, missile launch sites, arboreta and gardens, heiau (indigenous places of worship or shrines) and other archaeological sites, airports, other paved areas, and lawns and other rural residential landscaped areas do not contain the primary constituent elements described for each species in paragraph (l) of this section and therefore are not included in the critical habitat designations. Coordinates are in UTM Zone 5 with units in meters using North American Datum of 1983 (NAD83). The following map shows the general locations of the 99 critical habitat units designated on the island of Hawaii.

(1) NOTE: Map 1—Index map follows:



Map 1
Big Island Final Critical Habitat - Island Index Map

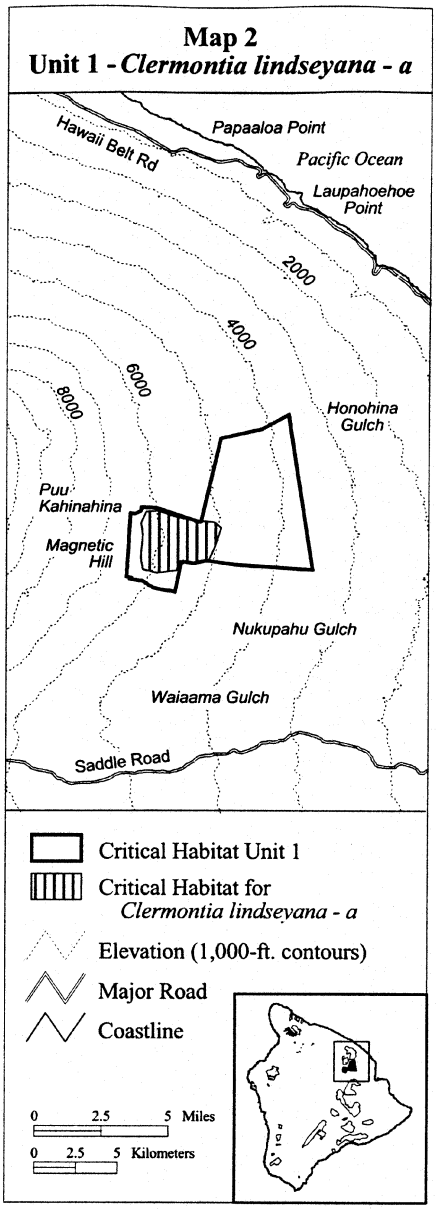
Final Big Island Critical Habitat Unit

Major Roads
Coastline
Elevation (500-ft. contours)

(2) Hawaii 1—*Clermontia lindseyana*—a (1,337 ha, 3,303 ac)

(i) Unit consists of the following 18 boundary points: Start at 259287, 2189980; 258514, 2190124; 258227, 2189531; 257076, 2189405; 256231, 2189611; 256096, 2190304; 256159, 2190978; 256258, 2191715; 256132, 2192452; 256438, 2193135; 257202, 2193171; 258074, 2192865; 259566, 2192515; 260015, 2192551; 260564, 2192488; 260937, 2192137; 260600, 2191095; 260195, 2190187; return to starting point.

(ii) NOTE: Map 2 follows:

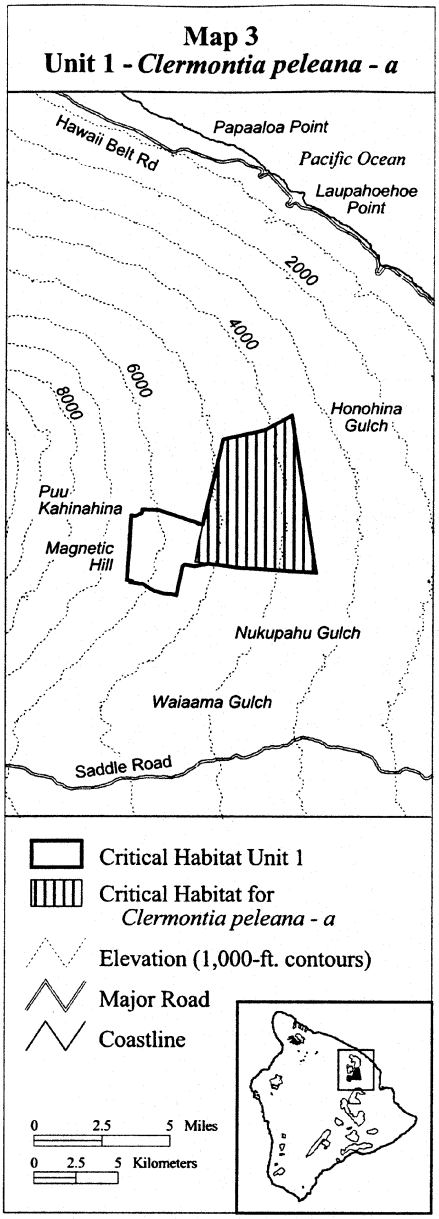


(3) Hawaii 1—*Clermontia peleana*—a (4,704 ha, 11,624 ac)

(i) Unit consists of the following seven boundary points: Start at 261799, 2189905; 259290, 2190265; 259437, 2191186; 260905, 2197592; 263380, 2198183; 264962,

2199047; 266443, 2189598; return to starting point.

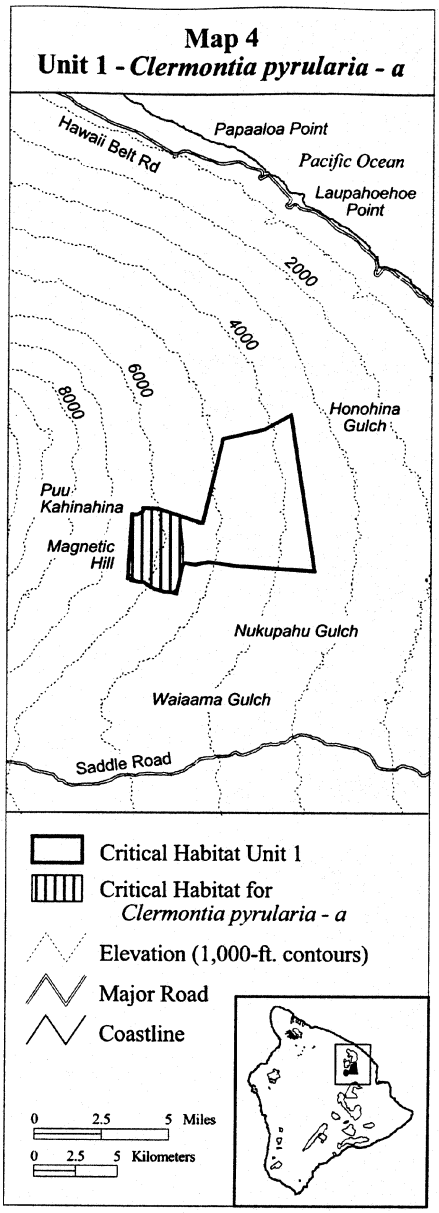
(ii) NOTE: Map 3 follows:



(4) Hawaii 1—*Clermontia pyrularia*—a (1,378 ha, 3,405 ac)

(i) Unit consists of the following 21 boundary points: Start at 258551, 2191038; 258529, 2189991; 258210, 2188565; 257890, 2188331; 257487, 2188365; 256896, 2188490; 256215, 2188925; 255931, 2188918; 255675, 2189060; 255456, 2189333; 255283, 2189470; 255306, 2189929; 255346, 2190140; 255408, 2190618; 255387, 2191557; 255496, 2193031; 255782, 2193009; 256122, 2193173; 256270, 2193339; 257054, 2193360; 258360, 2192915; return to starting point.

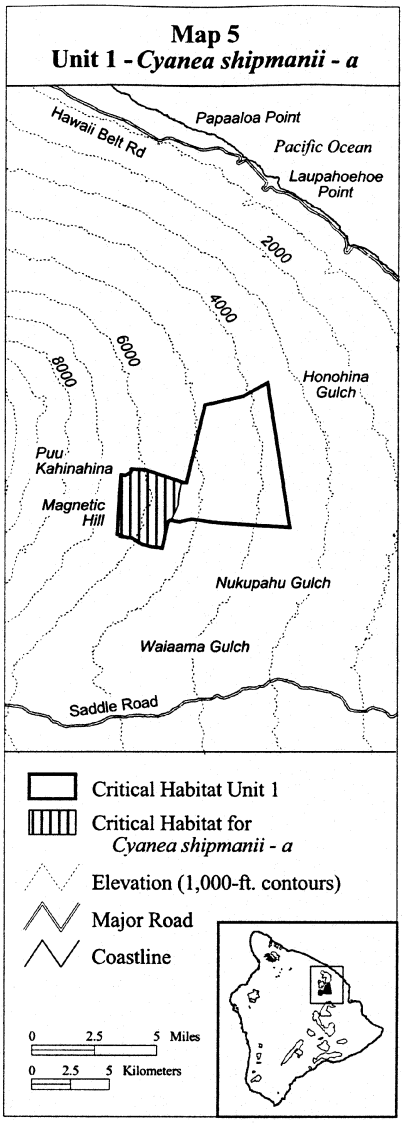
(ii) NOTE: Map 4 follows:



(5) Hawaii 1—*Cyanea shipmanii*—a (1,577 ha, 3,898 ac)

(i) Unit consists of the following 15 boundary points: Start at 258782, 2190167; 258548, 2189979; 258183, 2188260; 257434, 2188452; 256928, 2188480; 256188, 2188929; 255258, 2189156; 255505, 2193009; 255781, 2192991; 256152, 2193174; 256156, 2193377; 257053, 2193355; 259425, 2192593; 259263, 2191816; 259174, 2191010; return to starting point.

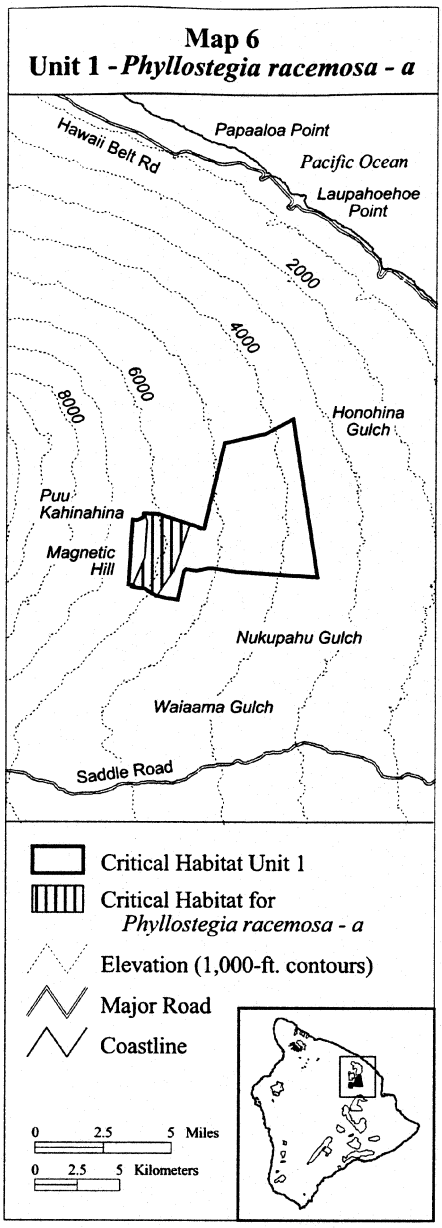
(ii) NOTE: Map 5 follows:



(6) Hawaii 1—*Phyllostegia racemosa*—a (938 ha, 2,317 ac)

(i) Unit consists of the following 14 boundary points: Start at 258101, 2190453; 257892, 2189913; 256913, 2188486; 256656, 2188640; 256222, 2188920; 255488, 2189023; 255638, 2189438; 256199, 2190746; 256201, 2190776; 256355, 2192927; 256193, 2193388; 257046, 2193366; 258868, 2192771; 258286, 2190933; return to starting point.

(ii) NOTE: Map 6 follows:

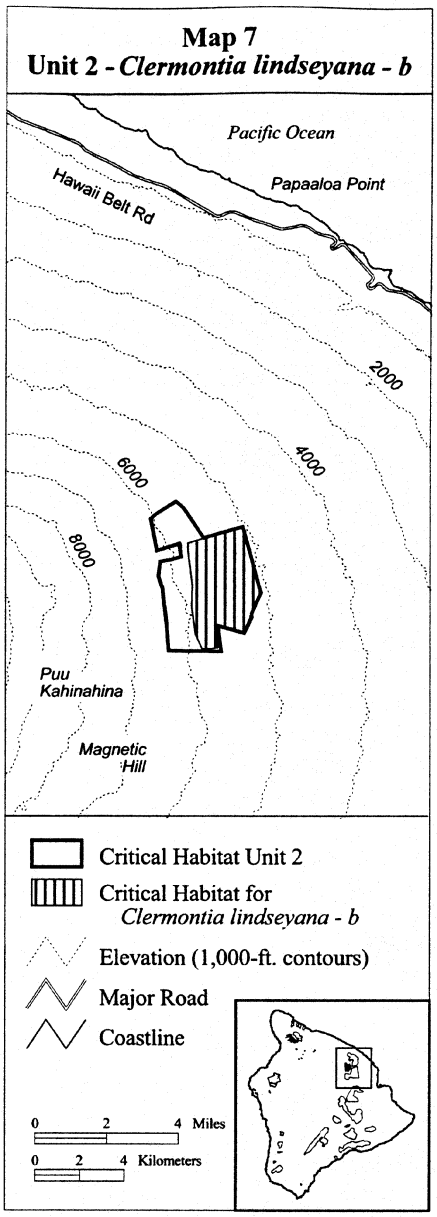


(7) Hawaii 2—*Clermontia lindseyana*—b (1,262 ha, 3,119 ac)

(i) Unit consists of the following 11 boundary points: Start at 257292, 2195256; 256959, 2195939; 256806, 2197162;

256815, 2198142; 256627, 2199661; 256609, 2200056; 259081, 2200802; 259908, 2197800; 259126, 2196047; 257939, 2196380; 257957, 2195319; return to starting point.

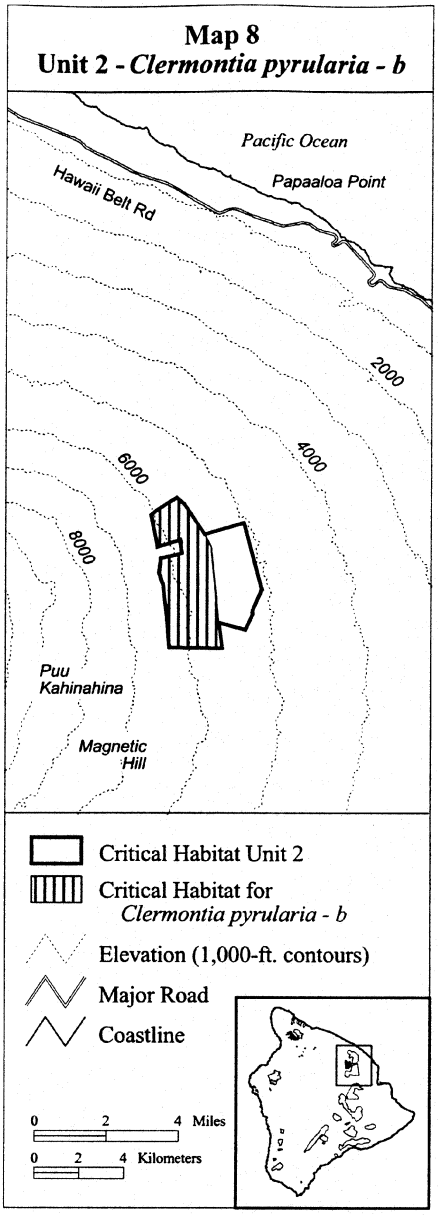
(ii) NOTE: Map 7 follows:



(8) Hawaii 2—*Clermontia pyrularia*—b (1,383 ha, 3,418 ac)

(i) Unit consists of the following 20 boundary points: Start at 255651, 2196455; 255597, 2196941; 255516, 2197725; 255512, 2197761; 255468, 2198050; 255421, 2198130; 255299, 2198552; 255372, 2199203; 256335, 2199414; 256242, 2200024; 255213, 2199704; 254946, 2201156; 255168, 2201360; 256079, 2201937; 256430, 2201672; 257336, 2200280; 257616, 2199751; 257968, 2196298; 258088, 2195186; 255745, 2195208; return to starting point.

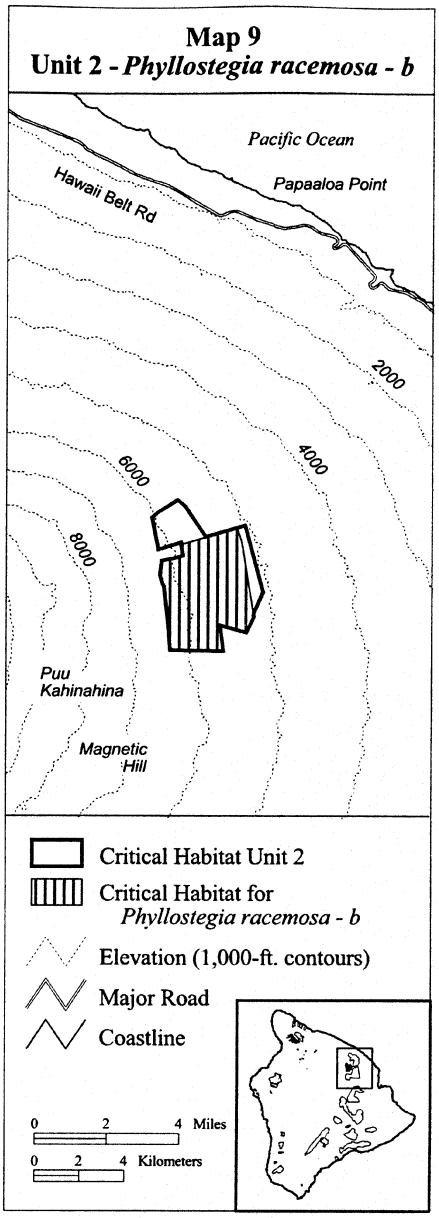
(ii) NOTE: Map 8 follows:



(9) Hawaii 2—*Phyllostegia racemosa*—b (1,683 ha, 4,158 ac)

(i) Unit consists of the following 13 boundary points: Start at 258723, 2200661; 258940, 2200060; 259480, 2196687; 259164, 2195977; 257990, 2196313; 258115, 2195161; 255794, 2195189; 255648, 2196936; 255554, 2197804; 255334, 2198495; 255397, 2199185; 256317, 2199426; 256234, 2199928; return to starting point.

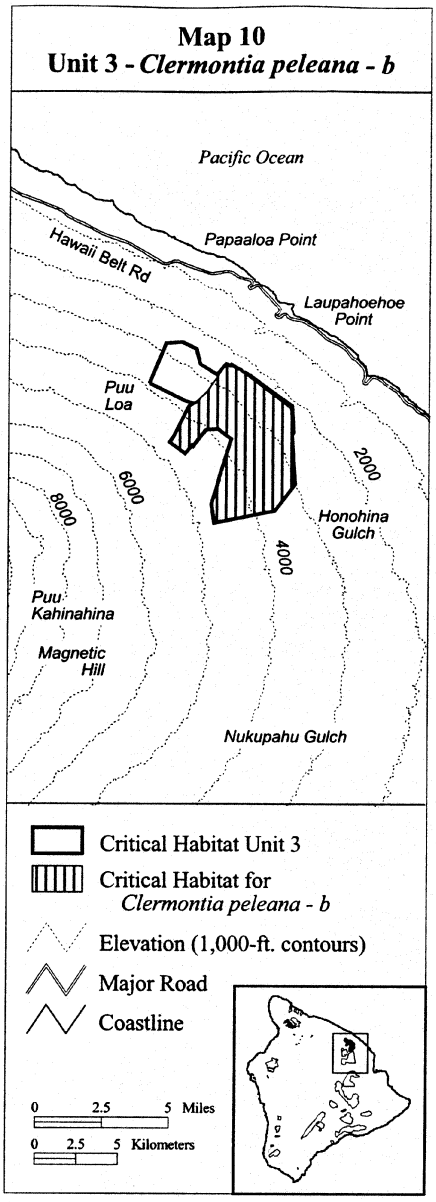
(ii) NOTE: Map 9 follows:



(10) Hawaii 3—*Clermontia peleana*—b (4,098 ha, 10,126 ac)

(i) Unit consists of the following 16 boundary points: Start at 265536, 2206014; 265870, 2201356; 264628, 2199741; 260958, 2198980; 260785, 2200155; 262026, 2204132; 261185, 2204813; 260398, 2204759; 259170, 2203211; 258222, 2203945; 258477, 2204289; 259386, 2206126; 259977, 2206520; 260443, 2206955; 261652, 2208710; 262533, 2208323; return to starting point.

(ii) NOTE: Map 10 follows:

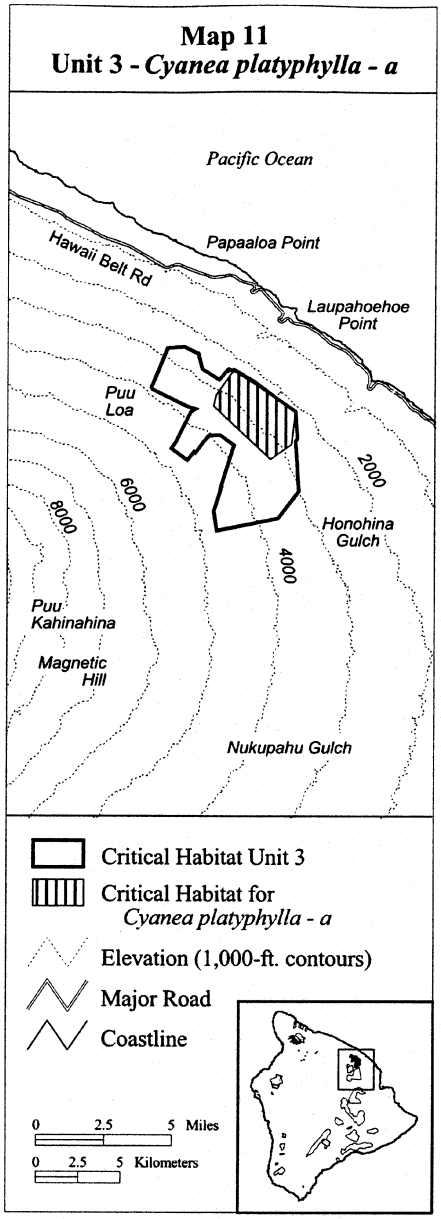


(11) Hawaii 3—*Cyanea platyphylla*—a (1,403 ha, 3,467 ac)

(i) Unit consists of the following eight boundary points: Start at 261936, 2208604; 263321, 2207740; 265617, 2206104; 265417, 2204172; 264174, 2203283; 260750,

2206482; 260875, 2207122; 261952, 2208637; return to starting point.

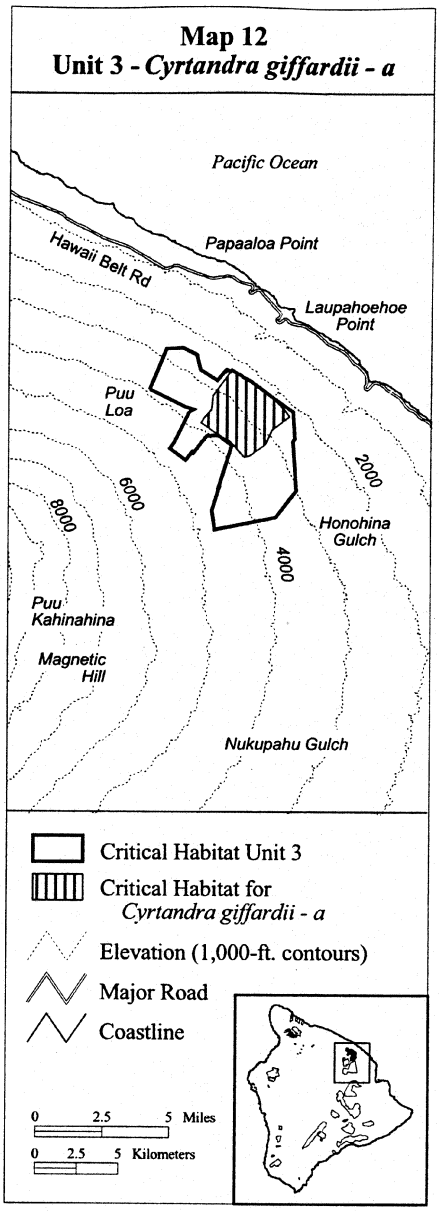
(ii) NOTE: Map 11 follows:



(12) Hawaii 3—*Cyrtandra giffardii*—a (1,510 ha, 3,731 ac)

(i) Unit consists of the following 22 boundary points: Start at 263977, 2204191; 263091, 2203511; 262736, 2203406; 261836, 2204431; 261358, 2204610; 261162, 2204774; 261114, 2204782; 260137, 2205484; 260269, 2205773; 260727, 2206307; 260808, 2207135; 261955, 2208667; 262335, 2208492; 262457, 2208405; 262682, 2208256; 262829, 2208171; 263062, 2208031; 264606, 2206914; 264702, 2206732; 265162, 2206251; 265443, 2205871; 264381, 2205051; return to starting point.

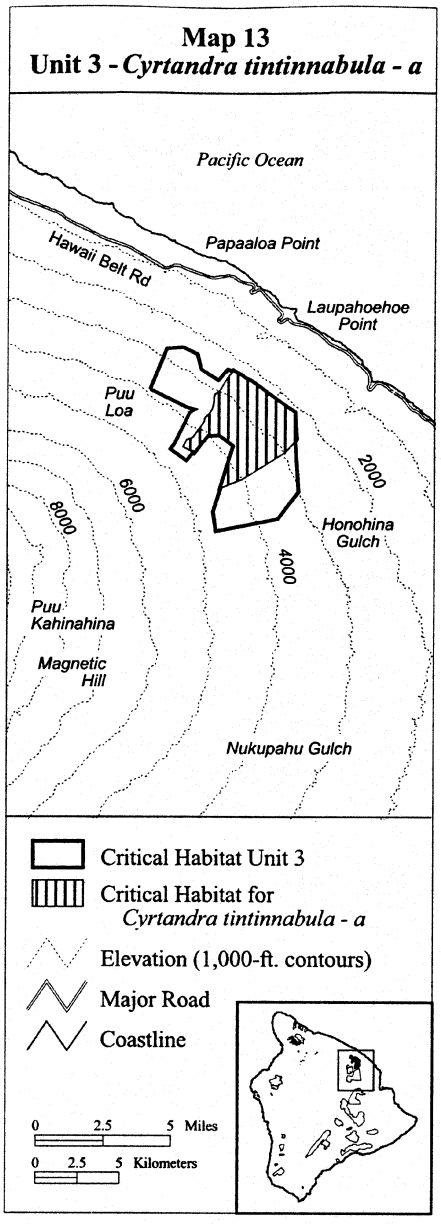
(ii) NOTE: Map 12 follows:



(13) Hawaii 3—*Cyrtandra tintinnabula*—a (2,322 ha, 5,738 ac)

(i) Unit consists of the following 30 boundary points: Start at 261996, 2208648; 262049, 2208624; 263522, 2207698; 265651, 2206158; 265754, 2204527; 265122, 2203759; 262570, 2202152; 261169, 2201554; 261944, 2204127; 261158, 2204766; 260467, 2204723; 260185, 2204367; 260136, 2204327; 260129, 2204298; 259641, 2203682; 259436, 2203822; 258995, 2204073; 259216, 2204499; 259562, 2204625; 259924, 2205129; 260239, 2205570; 260255, 2205790; 260539, 2206042; 260743, 2206373; 260822, 2206782; 260854, 2207176; 261184, 2207475; 261515, 2208026; 261720, 2208326; 261972, 2208593; return to starting point.

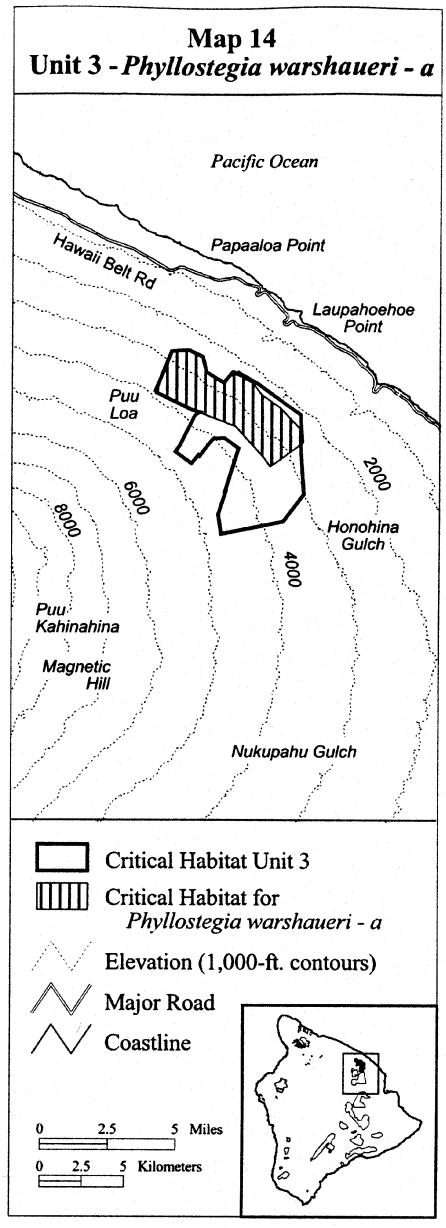
(ii) NOTE: Map 13 follows:



(14) Hawaii 3—*Phyllostegia warshaueri*—a (2,471 ha, 6,105 ac)

(i) Unit consists of the following 21 boundary points: Start at 257006, 2207522; 257019, 2207554; 257990, 2209960; 258969, 2210027; 258996, 2210030; 259000, 2210028; 259841, 2209621; 260070, 2208710; 261086, 2208085; 261545, 2208642; 262022, 2208476; 262839, 2208040; 263330, 2207359; 264502, 2206514; 265710, 2205217; 265744, 2204501; 265526, 2204234; 263864, 2203016; 263466, 2203598; 261804, 2205478; 259132, 2206487; return to starting point.

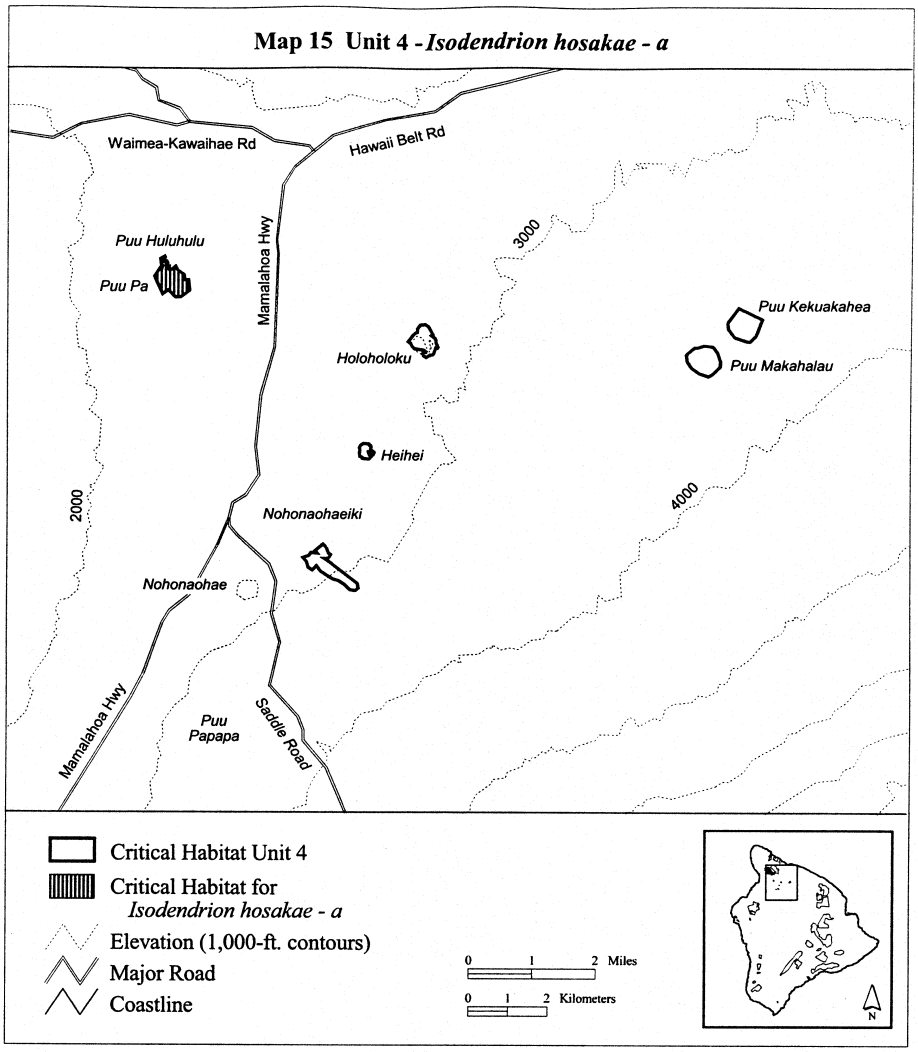
(ii) NOTE: Map 14 follows:



(15) Hawaii 4—*Isodendrion hosakae*—a (49 ha, 121 ac)

(i) Unit consists of the following 30 boundary points: Start at 216918, 2213235; 217016, 2213305; 217029, 2213274; 217005, 2213247; 217021, 2213158; 217073, 2213172; 217095, 2213120; 217071, 2213088; 217094, 2213045; 217129, 2213041; 217123, 2212977; 217141, 2212945; 217161, 2212966; 217207, 2212974; 217303, 2213051; 217353, 2212944; 217455, 2212885; 217511, 2212825; 217544, 2212704; 217624, 2212704; 217658, 2212443; 217423, 2212270; 217284, 2212268; 217105, 2212451; 216974, 2212346; 216772, 2212797; 216900, 2213009; 216946, 2212994; 216966, 2213060; 216928, 2213088; return to starting point.

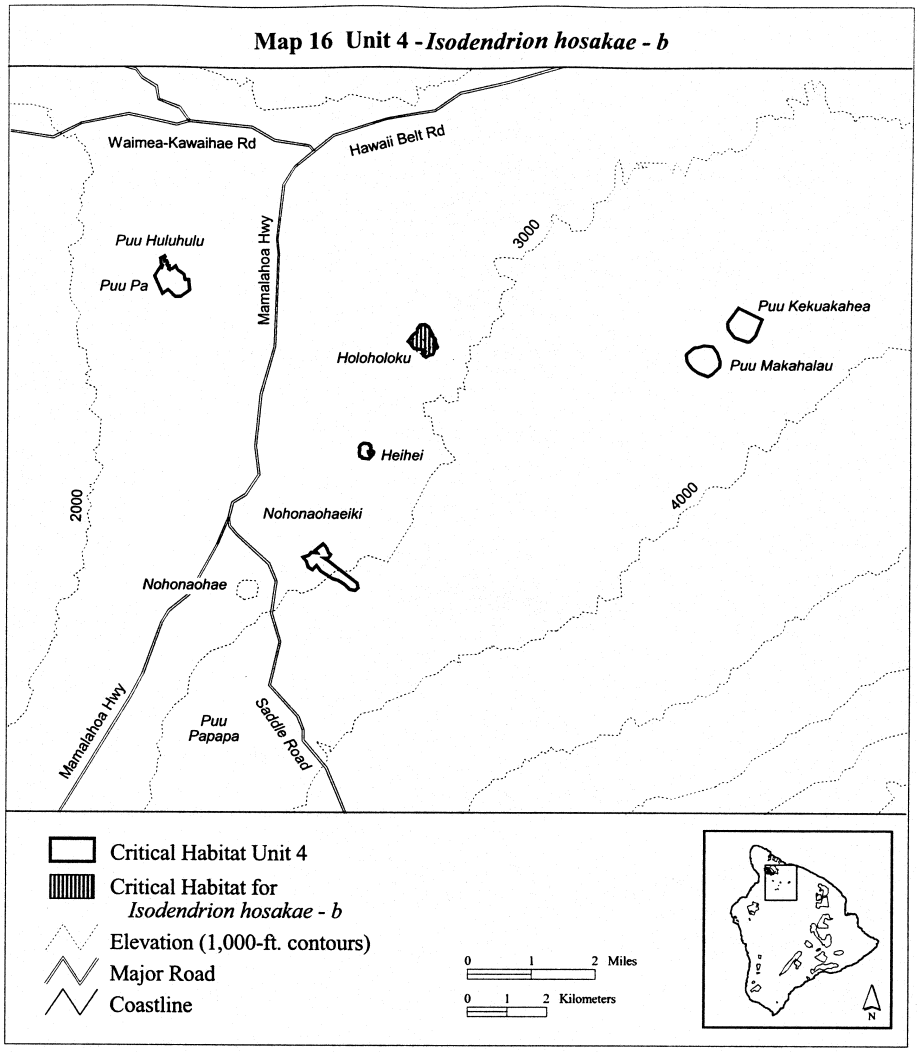
(ii) NOTE: Map 15 follows:



(16) Hawaii 4—*Isodendrion hosakae*—b (35 ha, 87 ac)

(i) Unit consists of the following 32 boundary points: Start at 223492, 2211567; 223608, 2211572; 223691, 2211528; 223727, 2211464; 223811, 2211316; 223763, 2211291; 223859, 2211232; 223887, 2211182; 223881, 2211116; 223938, 2211006; 223918, 2210977; 223876, 2210984; 223832, 2210851; 223809, 2210816; 223729, 2210799; 223636, 2210739; 223556, 2210796; 223552, 2210877; 223614, 2210869; 223630, 2210891; 223572, 2210924; 223506, 2210932; 223418, 2210946; 223338, 2210965; 223296, 2211003; 223244, 2211091; 223188, 2211145; 223294, 2211291; 223359, 2211352; 223406, 2211368; 223414, 2211415; 223415, 2211453; return to starting point.

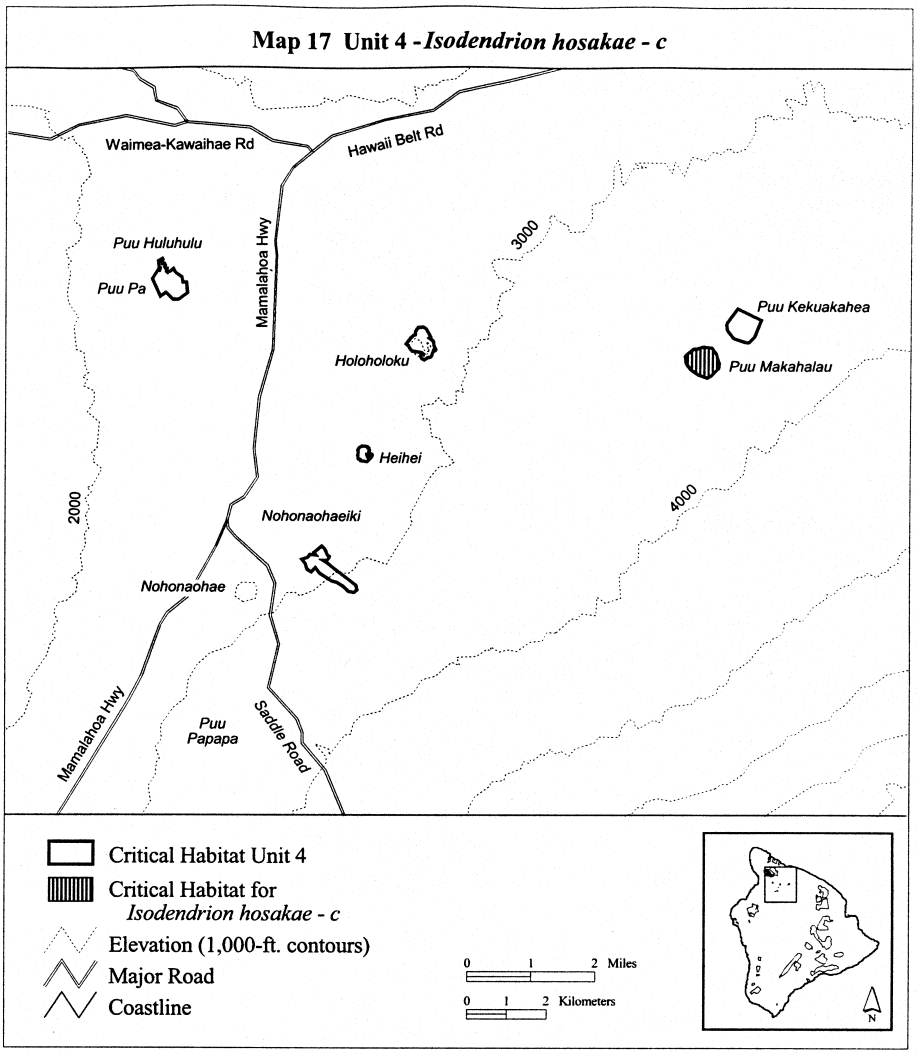
(ii) NOTE: Map 16 follows:



(17) Hawaii 4—*Isodendrion hosakae*—c (49 ha, 121 ac)

(i) Unit consists of the following 15 boundary points: Start at 230256, 2210857; 230438, 2210998; 230517, 2211001; 230682, 2211057; 230897, 2211021; 231011, 2210874; 231090, 2210642; 231078, 2210504; 230899, 2210322; 230783, 2210259; 230543, 2210360; 230357, 2210475; 230289, 2210576; 230244, 2210644; 230224, 2210817; return to starting point.

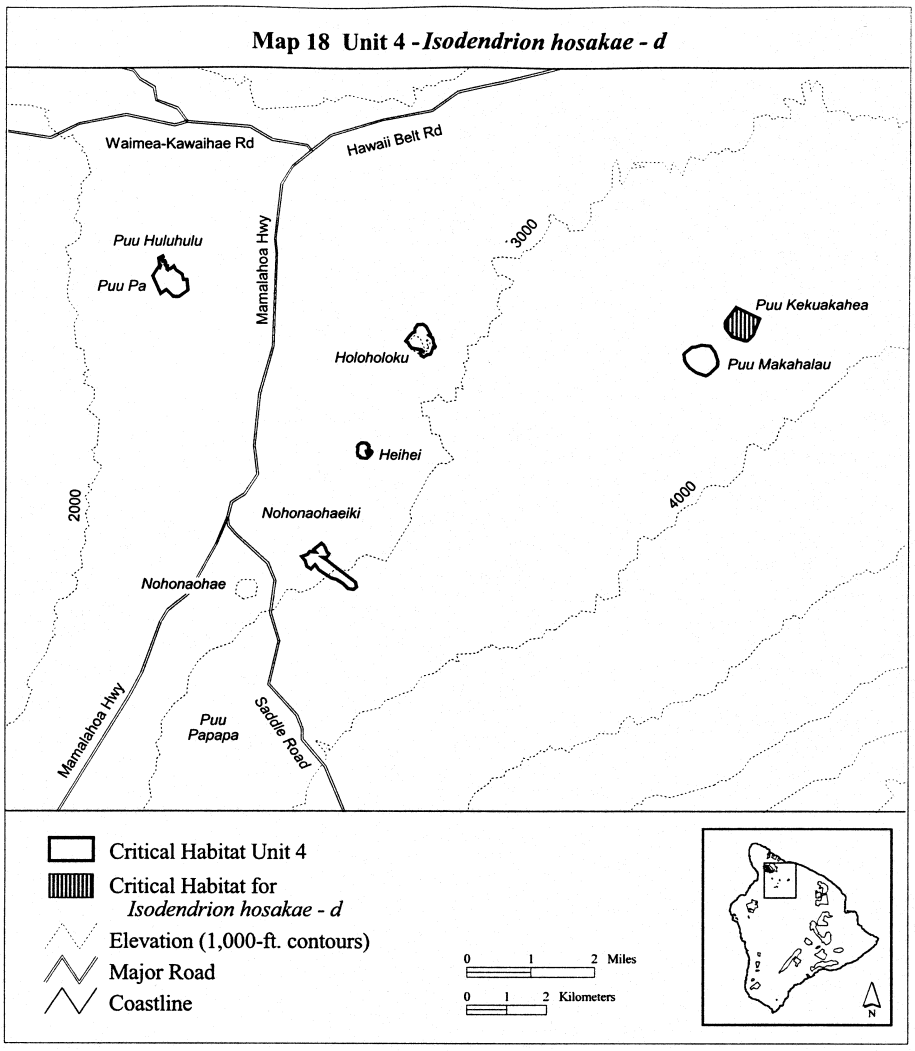
(ii) NOTE: Map 17 follows:



(18) Hawaii 4—*Isodendrion hosakae*—d (49 ha, 121 ac)

(i) Unit consists of the following nine boundary points: Start at 231266, 2211631; 231267, 2211631; 231537, 2212023; 232139, 2211722; 231979, 2211293; 231830, 2211149; 231774, 2211152; 231436, 2211271; 231277, 2211485; return to starting point.

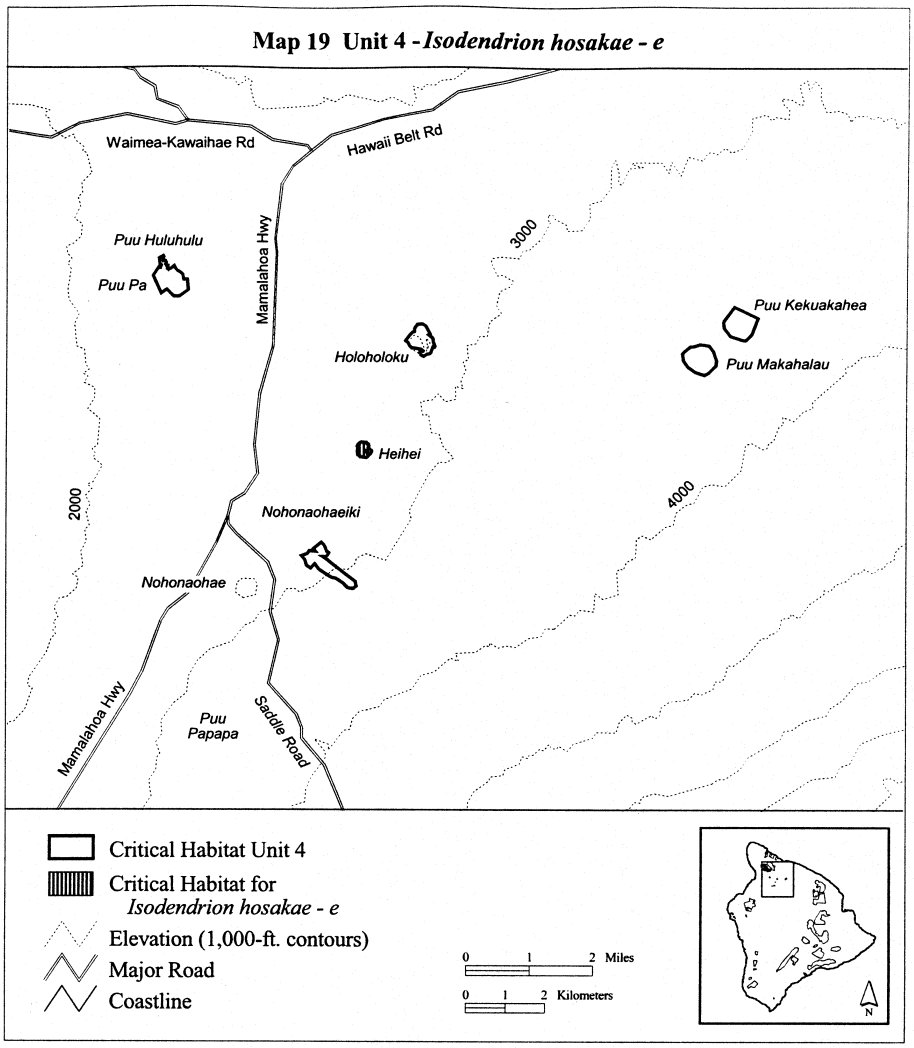
(ii) NOTE: Map 18 follows:



(19) Hawaii 4—*Isodendrion hosakae*—e (11 ha, 26 ac)

(i) Unit consists of the following 39 boundary points: Start at 222273, 2208478; 222265, 2208455; 222245, 2208415; 222245, 2208393; 222331, 2208332; 222330, 2208290; 222311, 2208248; 222279, 2208219; 222256, 2208215; 222254, 2208246; 222251, 2208259; 222230, 2208261; 222222, 2208286; 222213, 2208303; 222225, 2208306; 222227, 2208316; 222214, 2208320; 222209, 2208331; 222194, 2208337; 222189, 2208329; 222194, 2208324; 222202, 2208299; 222198, 2208283; 222219, 2208259; 222244, 2208216; 222238, 2208183; 222198, 2208149; 222045, 2208166; 222020, 2208212; 221971, 2208225; 221966, 2208306; 221969, 2208396; 221963, 2208440; 221988, 2208483; 222015, 2208509; 222077, 2208552; 222199, 2208535; 222218, 2208498; 222247, 2208498; return to starting point.

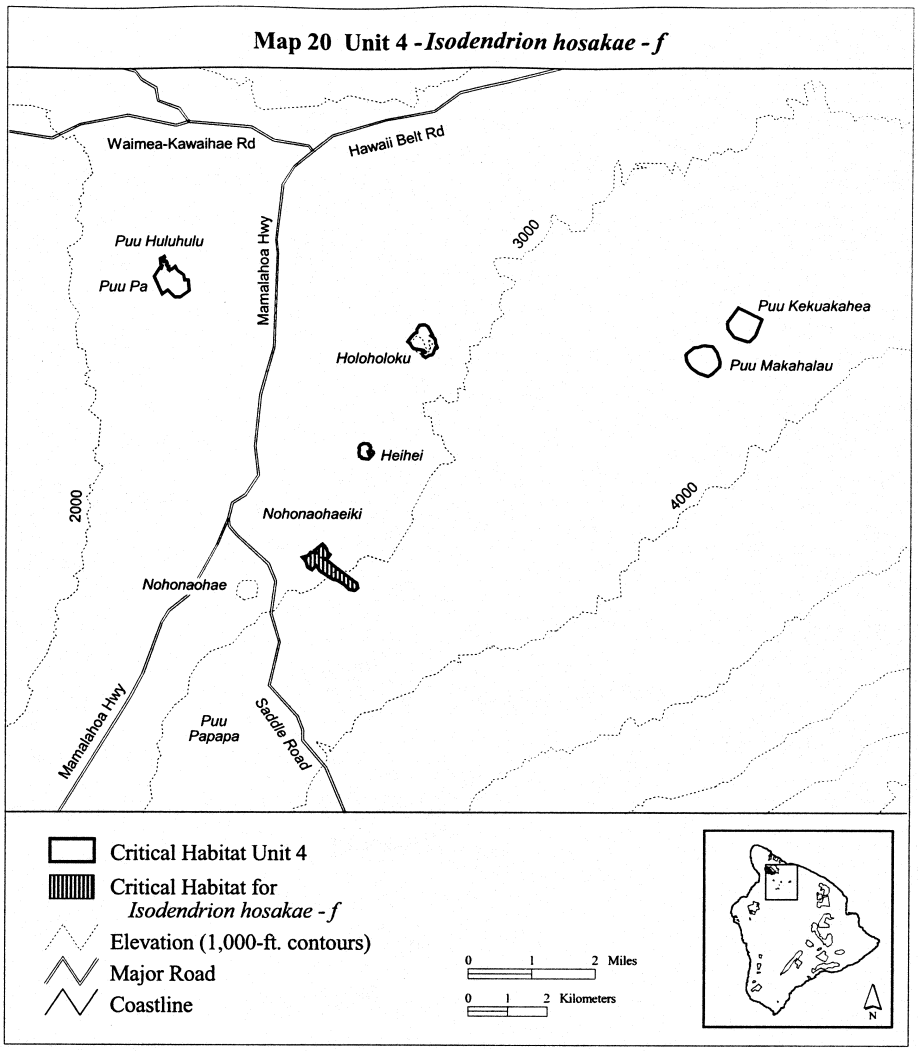
(ii) NOTE: Map 19 follows:



(20) Hawaii 4—*Isodendrion hosakae*—f (51 ha, 127 ac)

(i) Unit consists of the following 27 boundary points: Start at 221456, 2205056; 221315, 2205089; 220996, 2205294; 220895, 2205435; 220799, 2205324; 220680, 2205394; 220645, 2205535; 220550, 2205636; 220701, 2205687; 220754, 2205770; 220904, 2205756; 220861, 2205816; 221058, 2205989; 221139, 2205911; 221195, 2205756; 221253, 2205717; 221216, 2205641; 221179, 2205613; 221095, 2205611; 221197, 2205553; 221326, 2205451; 221675, 2205188; 221929, 2204996; 221948, 2204869; 221871, 2204802; 221737, 2204828; 221610, 2204957; return to starting point.

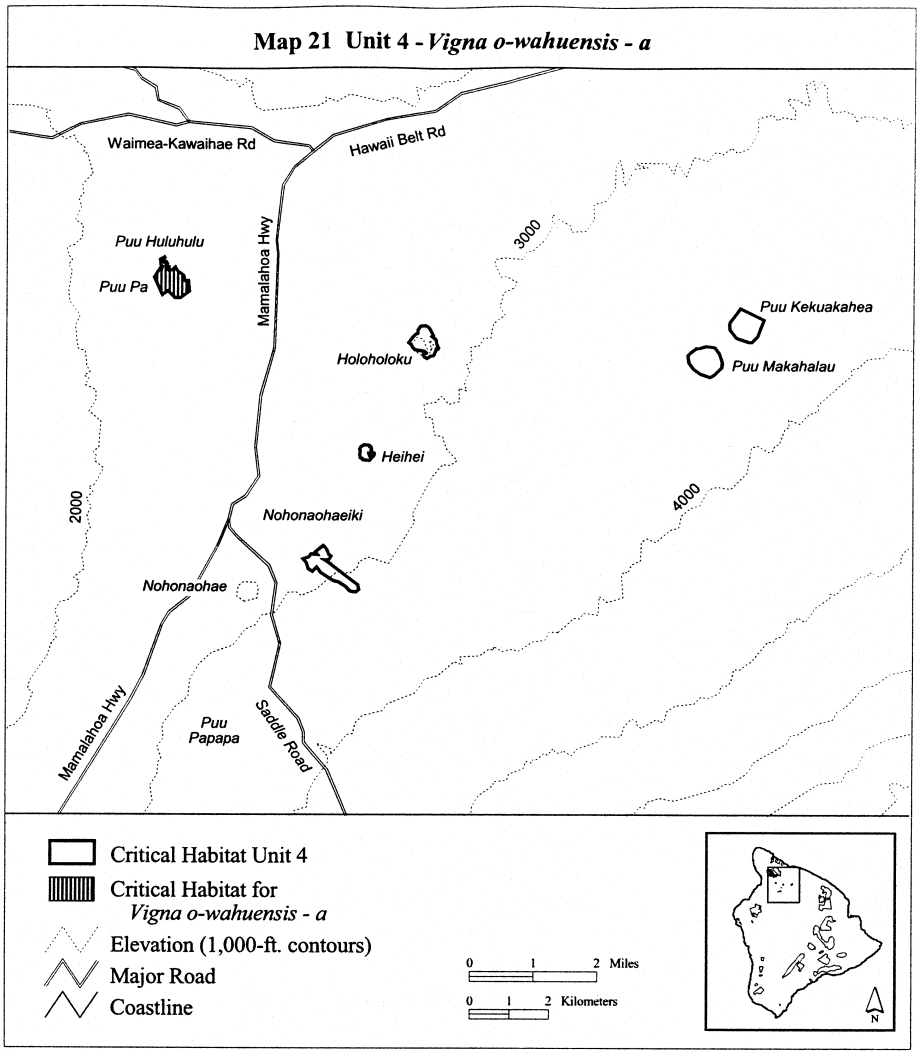
(ii) NOTE: Map 20 follows:



(21) Hawaii 4—*Vigna o-wahuensis*—a (49 ha, 121 ac)

(i) Unit consists of the following 30 boundary points: Start at 216918, 2213235; 217016, 2213305; 217029, 2213274; 217005, 2213247; 217021, 2213158; 217073, 2213172; 217095, 2213120; 217071, 2213088; 217094, 2213045; 217129, 2213041; 217123, 2212977; 217141, 2212945; 217161, 2212966; 217207, 2212974; 217303, 2213051; 217353, 2212944; 217455, 2212885; 217511, 2212825; 217544, 2212704; 217624, 2212704; 217658, 2212443; 217423, 2212270; 217284, 2212268; 217105, 2212451; 216974, 2212346; 216772, 2212797; 216900, 2213009; 216946, 2212994; 216966, 2213060; 216928, 2213088; return to starting point.

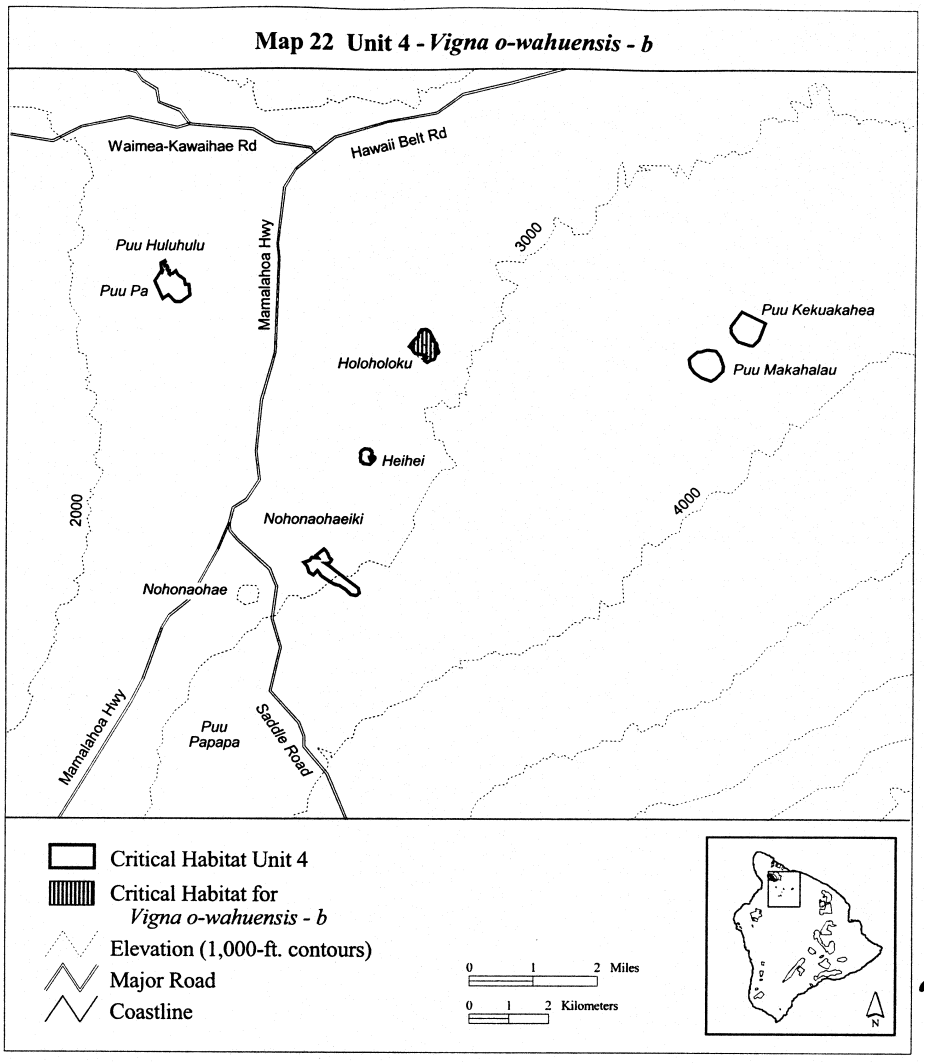
(ii) NOTE: Map 21 follows:



(22) Hawaii 4—*Vigna o-wahuensis*—b (35 ha, 87 ac)

(i) Unit consists of the following 32 boundary points: Start at 223492, 2211567; 223608, 2211572; 223691, 2211528; 223727, 2211464; 223811, 2211316; 223763, 2211291; 223859, 2211232; 223887, 2211182; 223881, 2211116; 223938, 2211006; 223918, 2210977; 223876, 2210984; 223832, 2210851; 223809, 2210816; 223729, 2210799; 223636, 2210739; 223556, 2210796; 223552, 2210877; 223614, 2210869; 223630, 2210891; 223572, 2210924; 223506, 2210932; 223418, 2210946; 223338, 2210965; 223296, 2211003; 223244, 2211091; 223188, 2211145; 223294, 2211291; 223359, 2211352; 223406, 2211368; 223414, 2211415; 223415, 2211453; return to starting point.

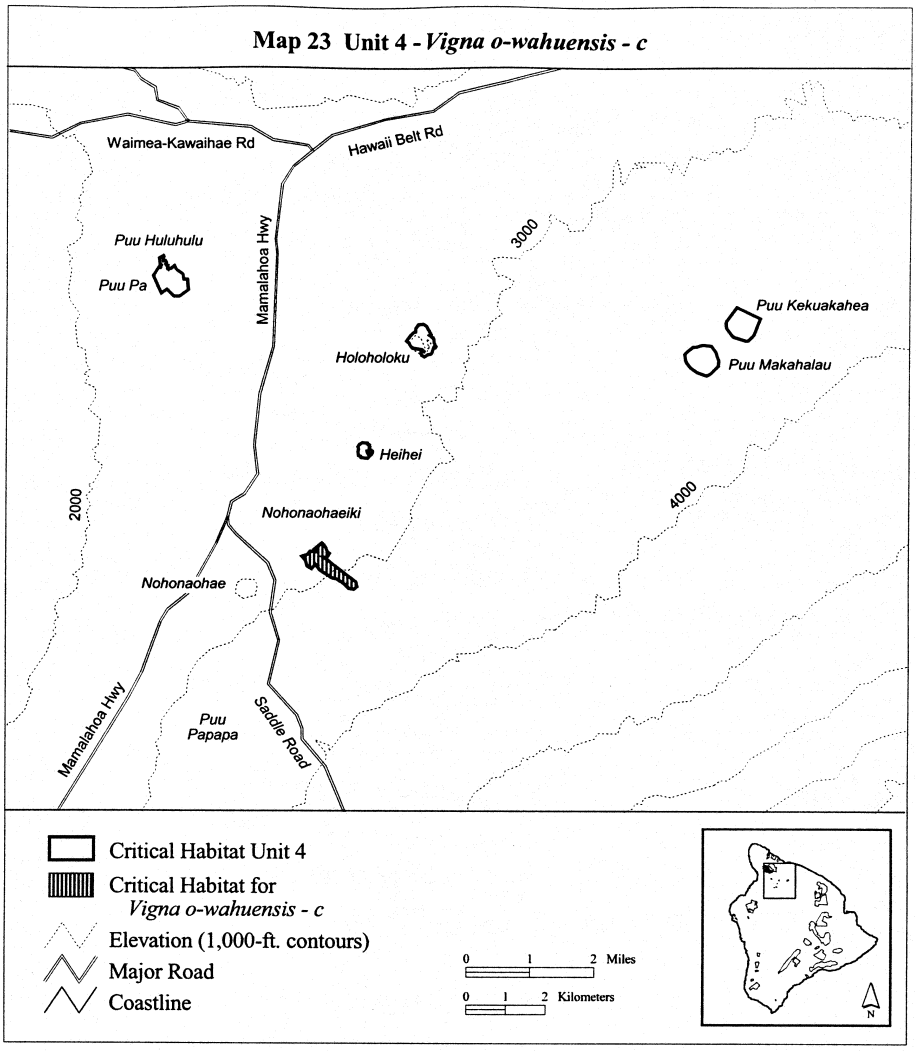
(ii) NOTE: Map 22 follows:



(23) Hawaii 4—*Vigna o-wahuensis*—c (51 ha, 127 ac)

(i) Unit consists of the following 27 boundary points: Start at 221456, 2205056; 221315, 2205089; 220996, 2205294; 220895, 2205435; 220799, 2205324; 220680, 2205394; 220645, 2205535; 220550, 2205636; 220701, 2205687; 220754, 2205770; 220904, 2205756; 220861, 2205816; 221058, 2205989; 221139, 2205911; 221195, 2205756; 221253, 2205717; 221216, 2205641; 221179, 2205613; 221095, 2205611; 221197, 2205553; 221326, 2205451; 221675, 2205188; 221929, 2204996; 221948, 2204869; 221871, 2204802; 221737, 2204828; 221610, 2204957; return to starting point.

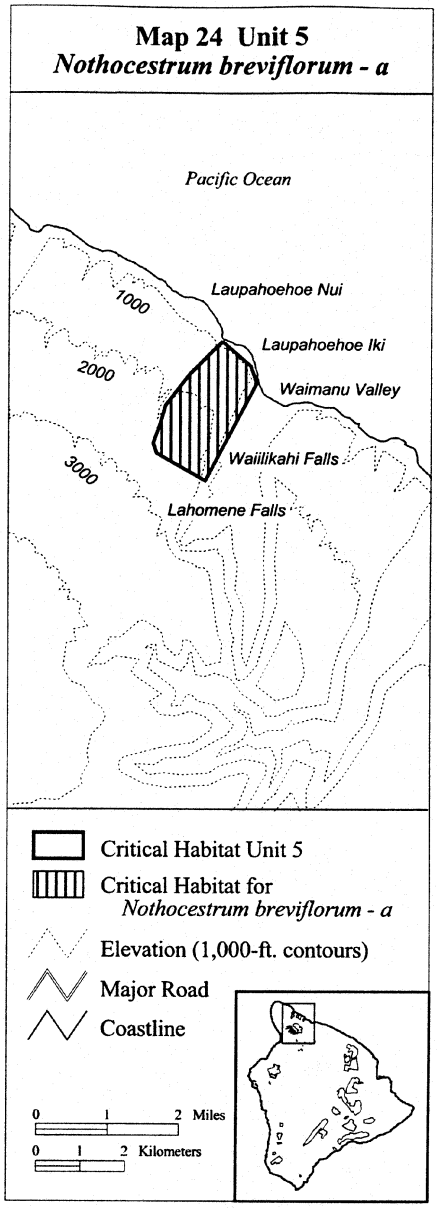
(ii) NOTE: Map 23 follows:


Map 23 Unit 4 - Vigna o-wahuensis - c
Waimea-Kawaihae Rd
Hawaii Belt Rd
Mamalahoa Hwy
Puu Huluhulu
Puu Pa
3000
Puu Kekuakahea
Puu Makahalau
Holoholoku
Heihei
2000
4000
Nohonaohaeiki
Nohonaohae
Mamalahoa Hwy
Puu Papapa
Saddle Road
Critical Habitat Unit 4
Critical Habitat for Vigna o-wahuensis - c
Elevation (1,000-ft. contours)
Major Road
Coastline
0 1 2 Miles
0 1 2 Kilometers
N

(24) Hawaii 5—*Nothocestrum breviflorum*—a (403 ha, 995 ac)

(i) Unit consists of the following 10 boundary points: Start at 223325, 2230961; 223717, 2230611; 223961, 2230395; 224099, 2230006; 222943, 2227775; 221847, 2228401; 221769, 2228638; 221914, 2229066; 222052, 2229490; 222606, 2230217; return to starting point.

(ii) NOTE: Map 24 follows:

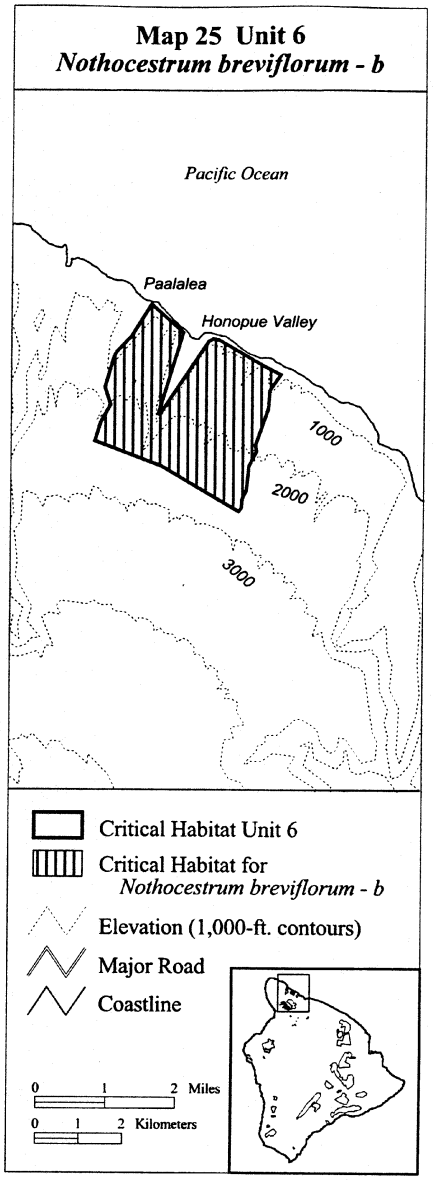


(25) Hawaii 6—*Nothocestrum breviflorum—b* (1,113 ha, 2,750 ac)

(i) Unit consists of the following 29 boundary points: Start at 217283, 2233128; 217629, 2233499; 218093, 2234242; 218828, 2233584; 218277, 2231773; 218266,

2231685; 218291, 2231675; 219411, 2233375; 219521, 2233443; 219655, 2233414; 220288, 2233050; 220656, 2232834; 221080, 2232612; 220999, 2232500; 220822, 2232233; 220802, 2231818; 220498, 2230963; 220529, 2230813; 220350, 2230453; 220296, 2229915; 220205, 2229697; 220190, 2229504; 220122, 2229416; 218354, 2230452; 216792, 2231049; 216919, 2231470; 217150, 2231890; 217026, 2232314; 217214, 2232981; return to starting point.

(ii) NOTE: Map 25 follows:

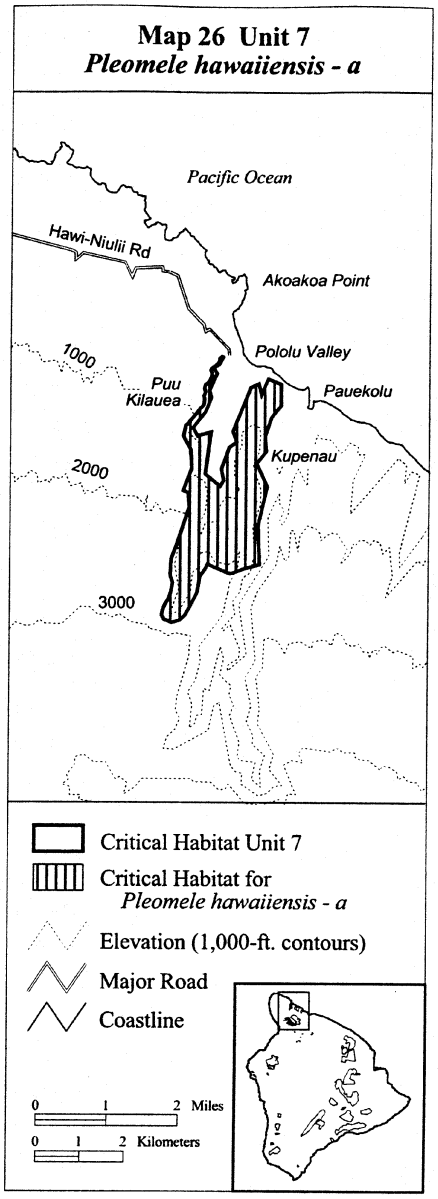


(26) Hawaii 7—*Pleomele hawaiiensis*—a (677 ha, 1,673 ac)

(i) Unit consists of the following 92 boundary points: Start at 213884, 2231521; 213842, 2231562; 213785, 2231427; 213666, 2231261; 213601, 2230893; 213453, 2230596; 213305, 2230350; 213204, 2230269;

213030, 2230210; 212859, 2230290; 212807, 2230381; 212812, 2230467; 212835, 2230541; 212877, 2230637; 212939, 2230736; 213011, 2230905; 213041, 2231129; 212997, 2231275; 213007, 2231651; 213147, 2232011; 213409, 2232858; 213387, 2233177; 213269, 2233218; 213462, 2233730; 213453, 2233976; 213443, 2234090; 213442, 2234162; 213373, 2234284; 213315, 2234388; 213271, 2234480; 213320, 2234721; 213371, 2234760; 213429, 2234835; 213464, 2234878; 213513, 2234943; 213559, 2235003; 213642, 2235106; 213659, 2235121; 213685, 2235147; 213724, 2235205; 213745, 2235328; 213734, 2235407; 213765, 2235497; 213747, 2235588; 213771, 2235662; 213817, 2235706; 213849, 2235729; 213891, 2235850; 213906, 2235884; 213908, 2235940; 213886, 2235998; 213892, 2236033; 214009, 2236115; 214062, 2236170; 214080, 2236202; 214083, 2236227; 214091, 2236260; 214140, 2236304; 214165, 2236296; 214069, 2236123; 213954, 2236053; 214016, 2235921; 213862, 2235537; 213901, 2235357; 213770, 2235029; 213484, 2234675; 213587, 2234485; 213891, 2234567; 213773, 2233608; 214112, 2233331; 214183, 2233458; 214141, 2233713; 214320, 2234212; 214483, 2234338; 214390, 2234581; 214802, 2235593; 214978, 2235684; 215037, 2235434; 215190, 2235808; 215483, 2235675; 215479, 2235179; 215269, 2234894; 215127, 2234463; 215158, 2234131; 214937, 2233848; 215182, 2233321; 214973, 2232427; 215018, 2231531; 214640, 2231432; 214495, 2231365; 214382, 2231329; 214332, 2231335; return to starting point.

(ii) NOTE: Map 26 follows:

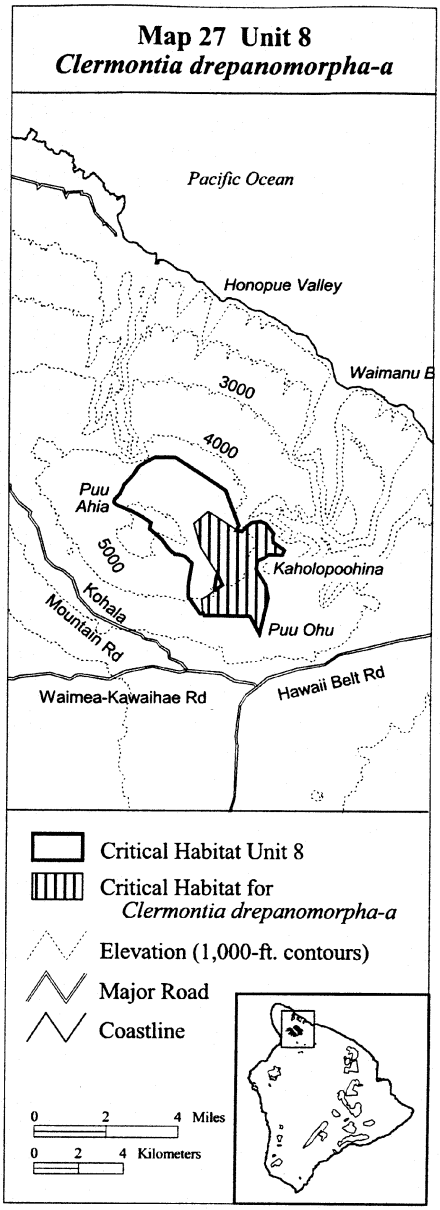


(27) Hawaii 8—*Clermontia drepanomorpha*—a (1,906 ha, 4,709 ac)

(i) Unit consists of the following 30 boundary points: Start at 214766, 2225082; 215176, 2225539; 215405, 2225905; 215716, 2226097; 216131, 2226318; 217035,

2226328; 218354, 2225470; 219286, 2224824; 219895, 2223228; 218899, 2220922; 218806, 2219907; 218769, 2219298; 218197, 2219271; 217672, 2220036; 217653, 2220562; 217819, 2221512; 217520, 2221821; 217378, 2221880; 217229, 2221937; 217063, 2221937; 216768, 2222158; 216463, 2222582; 215919, 2223071; 215956, 2223348; 215550, 2223643; 215070, 2223892; 214393, 2224156; 214299, 2224261; 214335, 2224407; 214570, 2224647; return to starting point.

(ii) NOTE: Map 27 follows:

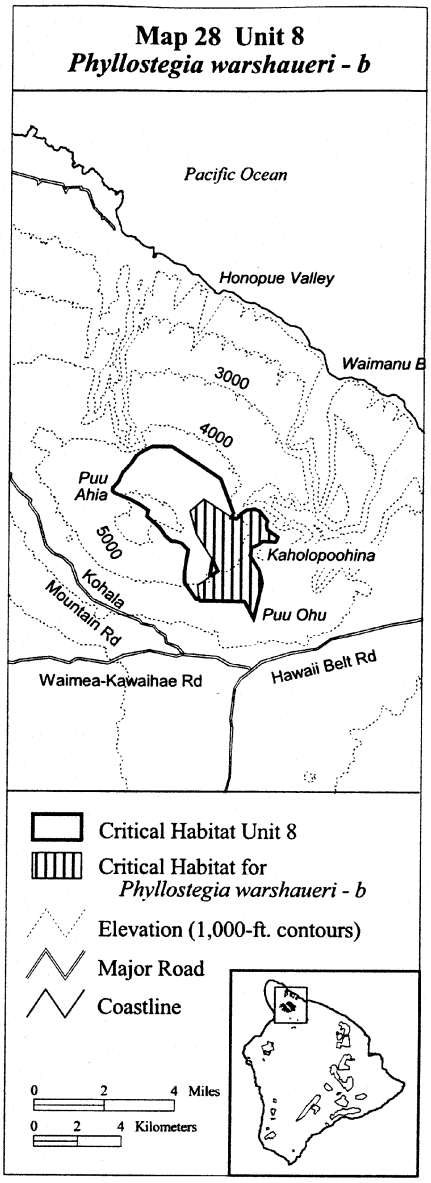


(28) Hawaii 8—*Phyllostegia warshaueri*—b (1,177 ha, 2,908 ac)

(i) Unit consists of the following 27 boundary points: Start at 218326, 2219182; 218265, 2219899; 218572, 2220103; 219186, 2220554; 218961, 2221066; 218183,

2222274; 217900, 2223294; 218531, 2223871; 219842, 2223011; 220052, 2222981; 220255, 2223197; 220513, 2223371; 220883, 2223437; 221142, 2223301; 221469, 2222879; 221431, 2222712; 221443, 2222484; 221956, 2222124; 221860, 2221917; 221276, 2221939; 221020, 2221746; 220775, 2221645; 220679, 2221263; 221125, 2220585; 221255, 2220003; 220857, 2218373; 220445, 2219168; return to starting point.

(ii) NOTE: Map 28 follows:



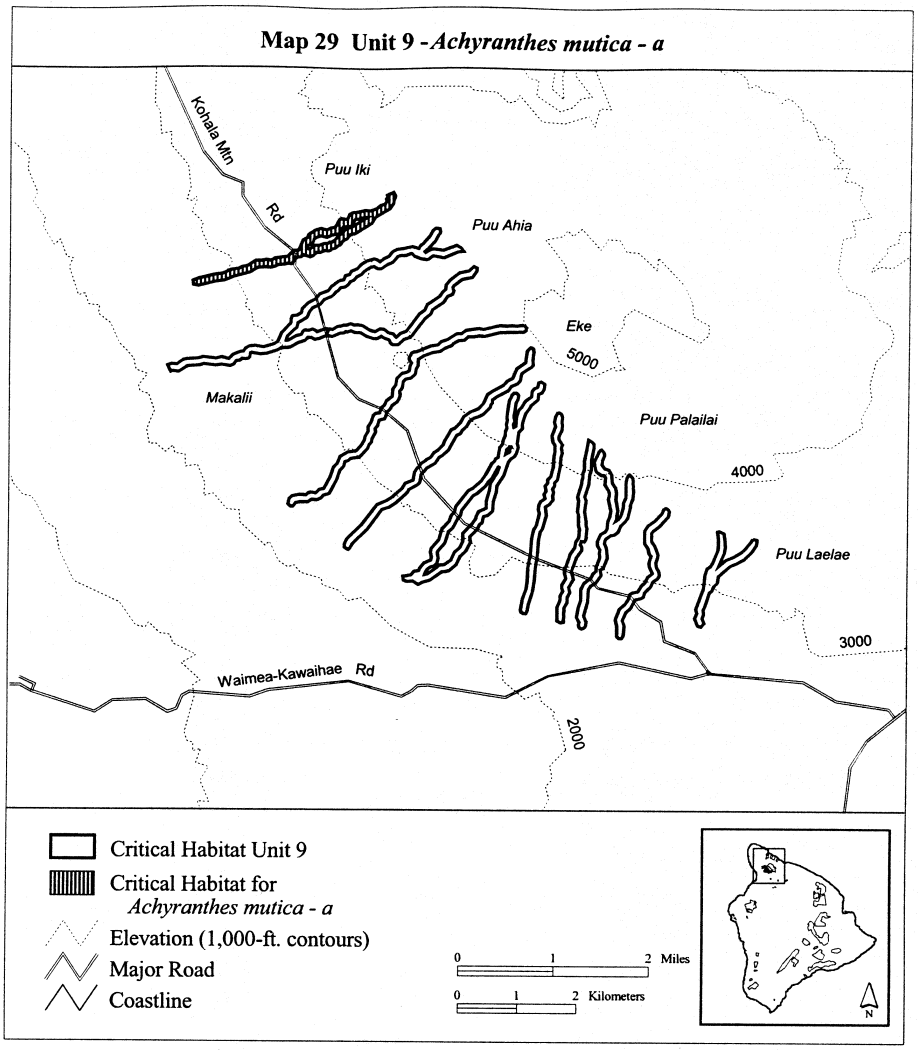
(29) Hawaii 9—*Achyranthes mutica*—a (63 ha, 157 ac)

(i) Unit consists of the following 82 boundary points: Start at 211908, 2224450; 211840, 2224339; 211562, 2224160; 211477, 2224142; 211418, 2224067; 211356, 2224034; 211319, 2223969; 211271, 2223951;

211220, 2223903; 211172, 2223900; 211144, 2223870; 211106, 2223860; 211053, 2223873; 210980, 2223837; 210916, 2223837; 210864, 2223788; 210802, 2223764; 210694, 2223796; 210650, 2223761; 210578, 2223756; 210489, 2223646; 210425, 2223652; 210359, 2223635; 210254, 2223626; 210218, 2223598; 210154, 2223584; 210056, 2223595; 209922, 2223585; 209805, 2223507; 209521, 2223432; 209365, 2223366; 209228, 2223347; 208930, 2223267; 208835, 2223286; 208830, 2223355; 208907, 2223389; 209205, 2223465; 209333, 2223482; 209483, 2223546; 209548, 2223555; 209606, 2223568; 209652, 2223593; 209761, 2223619; 209887, 2223699; 209956, 2223703; 209996, 2223703; 210057, 2223716; 210148, 2223704; 210219, 2223742; 210431, 2223770; 210529, 2223870; 210603, 2223875; 210683, 2224047; 210751, 2224079; 210773, 2224145; 210846, 2224182; 210875, 2224212; 210992, 2224241; 211084, 2224220; 211131, 2224248; 211225, 2224269; 211290, 2224395; 211339, 2224415; 211428, 2224394; 211464, 2224477; 211515, 2224517; 211607, 2224525; 211733, 2224561; 211824, 2224547; 211926, 2224590; 211986, 2224640; 212066, 2224670; 212094, 2224717; 212088, 2224750; 212115, 2224806; 212108, 2224823; 212219, 2224872; 212243, 2224820; 212243, 2224778; 212216, 2224731; 212213, 2224684; 212160, 2224595; return to starting point.

(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) NOTE: Map 29 follows:



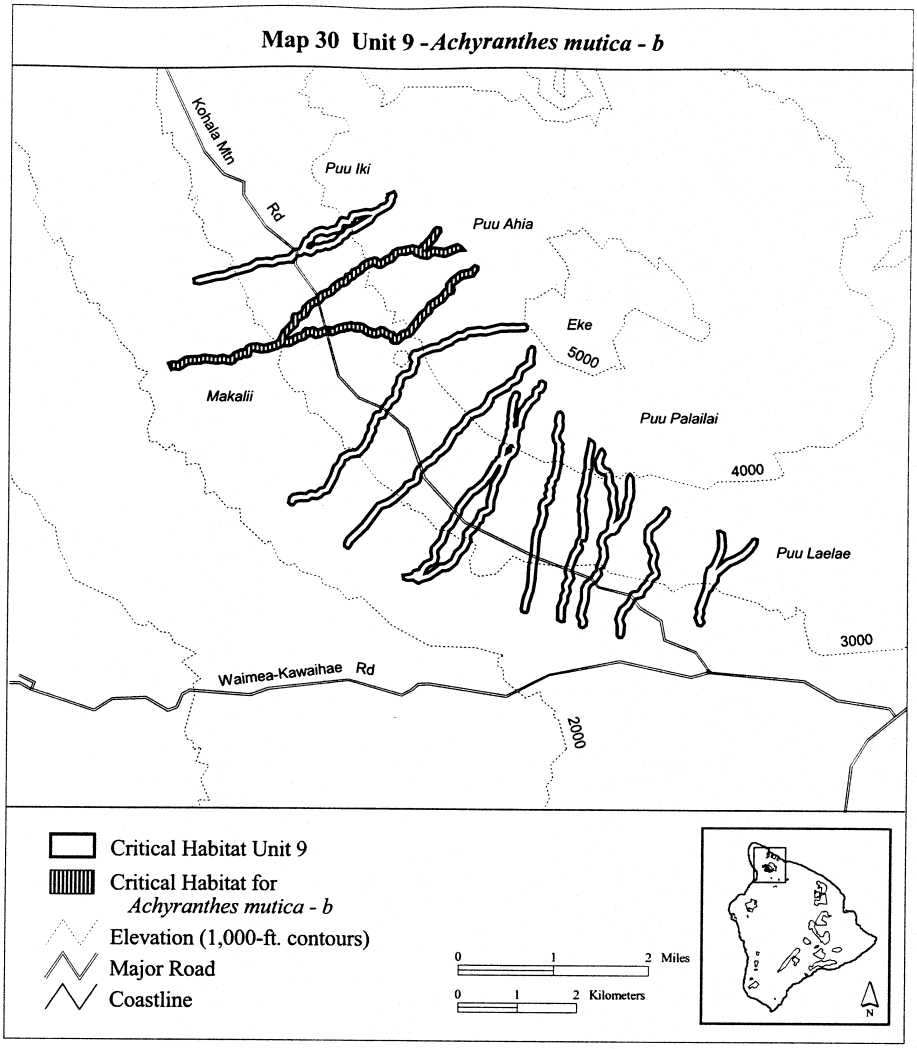
(30) Hawaii 9—*Achyranthes mutica*—b (124 ha, 306 ac)

(i) Unit consists of the following 211 boundary points: Start at 211305, 2223364; 211375, 2223384; 211403, 2223445; 211471, 2223464; 211508, 2223521; 211605, 2223565; 211667, 2223634; 211757, 2223690; 211885, 2223733; 211931, 2223724; 211986, 2223686; 212068, 2223746; 212139, 2223774; 212198, 2223854; 212277, 2223900; 212406, 2223912; 212539, 2223951; 212645, 2223915; 212681, 2223974; 212720, 2223994; 212836, 2224123; 212883, 2224222; 212935, 2224265; 213002, 2224253; 213015, 2224188; 212983, 2224154; 212926, 2224043; 212826, 2223931; 212746, 2223863; 212766, 2223847; 212819, 2223884; 212890, 2223915; 213075, 2223887; 213289, 2223971; 213371, 2223934; 213409, 2223871; 213316, 2223863; 213077, 2223764; 212894, 2223794; 212820, 2223740; 212780, 2223729; 212674, 2223741; 212626, 2223773; 212579, 2223781; 212533, 2223829; 212510, 2223825; 212439, 2223796; 212348, 2223795; 212294, 2223777; 212205, 2223673; 212125,

2223641; 212013, 2223563; 211957, 2223565; 211888, 2223610; 211803, 2223577; 211717, 2223519; 211686, 2223470; 211593, 2223426; 211549, 2223371; 211491, 2223344; 211458, 2223292; 211397, 2223257; 211323, 2223241; 211283, 2223193; 211242, 2223171; 211187, 2223097; 211045, 2223037; 210978, 2222957; 210854, 2222894; 210790, 2222817; 210763, 2222740; 210607, 2222645; 210591, 2222566; 210546, 2222536; 210433, 2222414; 210413, 2222350; 210443, 2222344; 210571, 2222422; 210666, 2222448; 210691, 2222500; 210725, 2222521; 210793, 2222517; 210852, 2222539; 210905, 2222517; 210925, 2222488; 211073, 2222553; 211191, 2222530; 211279, 2222586; 211348, 2222589; 211378, 2222610; 211441, 2222613; 211494, 2222638; 211568, 2222607; 211619, 2222618; 211712, 2222598; 211828, 2222527; 211912, 2222500; 212003, 2222547; 212069, 2222542; 212147, 2222486; 212228, 2222467; 212274, 2222404; 212348, 2222471; 212448, 2222511; 212668, 2222802; 212761, 2222874; 212802, 2222963; 213012, 2223108; 213060, 2223184; 213115, 2223225; 213115, 2223296; 213180, 2223380; 213342, 2223505; 213502, 2223538; 213592, 2223617; 213636, 2223593; 213643, 2223539; 213565, 2223434; 213394, 2223394; 213253, 2223285; 213234, 2223260; 213253, 2223205; 213231, 2223147; 213152, 2223106; 213084, 2223011; 212891, 2222882; 212863, 2222805; 212756, 2222719; 212535, 2222428; 212497, 2222398; 212412, 2222369; 212308, 2222279; 212217, 2222281; 212186, 2222304; 212160, 2222365; 212097, 2222377; 212025, 2222427; 211944, 2222384; 211894, 2222380; 211782, 2222415; 211678, 2222482; 211644, 2222482; 211575, 2222486; 211508, 2222513; 211448, 2222492; 211413, 2222496; 211386, 2222474; 211328, 2222470; 211194, 2222417; 211089, 2222433; 210981, 2222380; 210899, 2222365; 210832, 2222399; 210774, 2222396; 210736, 2222348; 210624, 2222314; 210481, 2222229; 210331, 2222220; 210250, 2222177; 210082, 2222125; 209980, 2222118; 209833, 2222142; 209813, 2222131; 209804, 2222071; 209776, 2222040; 209729, 2222030; 209675, 2222040; 209640, 2222012; 209577, 2222003; 209527, 2221938; 209471, 2221916; 209325, 2221943; 209234, 2221919; 209020, 2221948; 208952, 2221925; 208760, 2221918; 208599, 2221816; 208492, 2221827; 208460, 2221817; 208410, 2221927; 208484, 2221948; 208565, 2221936; 208676, 2222014; 208732, 2222035; 208927, 2222043; 209015, 2222068; 209236, 2222040; 209325, 2222064; 209449, 2222035; 209526, 2222112; 209647, 2222157; 209695, 2222158; 209723, 2222210; 209793, 2222256; 209892, 2222262; 210029, 2222239; 210205, 2222289; 210267, 2222326; 210332, 2222479; 210486, 2222645; 210485, 2222700; 210505, 2222750; 210534, 2222771; 210592, 2222771; 210670, 2222819; 210675, 2222877; 210775, 2222984; 210911, 2223056; 210970, 2223132; 211117, 2223195; 211175, 2223273; return to starting point.

(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) NOTE: Map 30 follows:

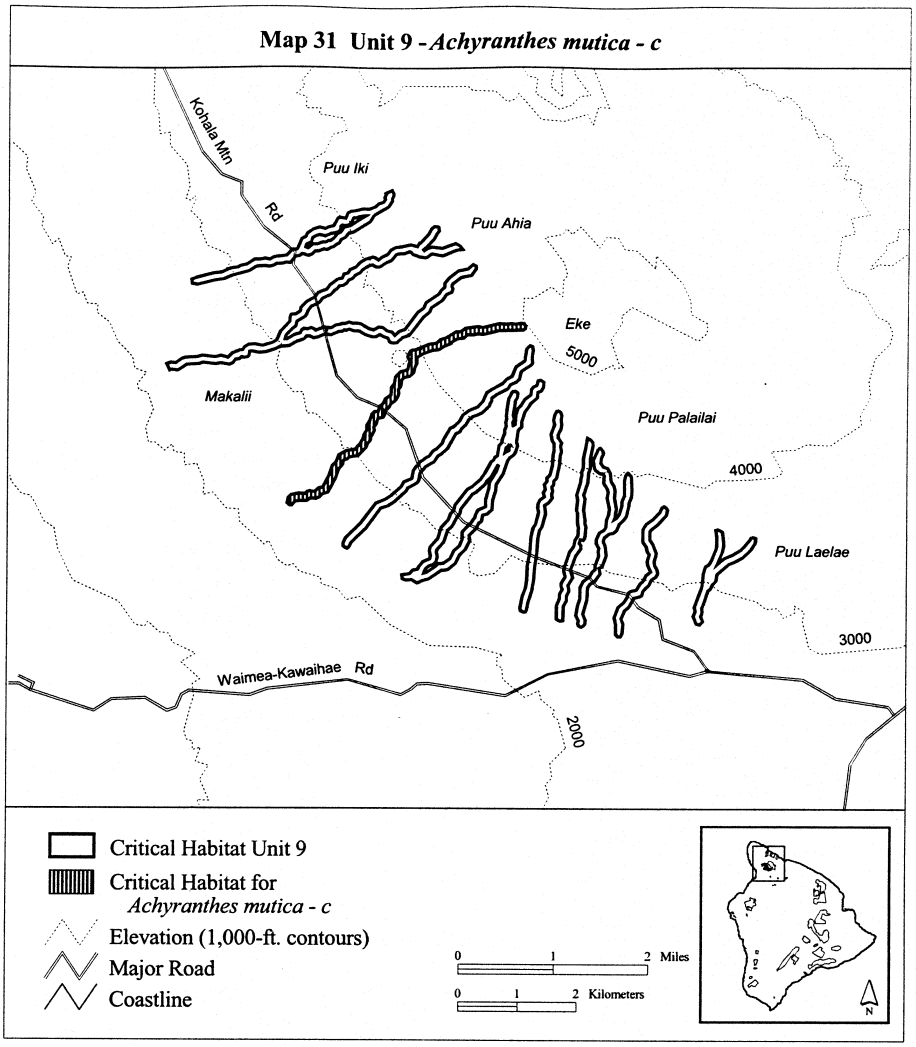


(31) Hawaii 9—*Achyranthes mutica*—c (67 ha, 166 ac)

(i) Unit consists of the following 114 boundary points: Start at 214447, 2222623; 214480, 2222585; 214474, 2222534; 214441, 2222505; 214055, 2222500; 213775, 2222429; 213683, 2222443; 213605, 2222423; 213500, 2222421; 213445, 2222367; 213339, 2222356; 213251, 2222303; 213225, 2222268; 213112, 2222232; 213029, 2222167; 212905, 2222150; 212752, 2222091; 212654, 2222033; 212657, 2221930; 212627, 2221876; 212610, 2221781; 212532, 2221714; 212449, 2221692; 212403, 2221653; 212384, 2221545; 212341, 2221489; 212348, 2221423; 212328, 2221349; 212298, 2221305; 212213, 2221243; 212181, 2221177; 212126, 2221131; 212117, 2221072; 212086, 2221019; 212000, 2220995; 211970, 2220899; 211930, 2220851; 211934, 2220790; 211874, 2220666; 211868, 2220609; 211830, 2220572; 211804, 2220499; 211669, 2220360; 211517, 2220331; 211480, 2220298; 211424, 2220284; 211404, 2220203; 211334, 2220125; 211281, 2219976; 211155, 2219728; 211059,

2219692; 211026, 2219657; 210955, 2219623; 210865, 2219627; 210798, 2219584; 210675, 2219589; 210587, 2219571; 210551, 2219507; 210505, 2219505; 210465, 2219555; 210482, 2219632; 210532, 2219684; 210655, 2219709; 210771, 2219702; 210805, 2219739; 210843, 2219752; 210929, 2219741; 210992, 2219793; 211068, 2219818; 211172, 2220027; 211227, 2220180; 211295, 2220255; 211335, 2220366; 211461, 2220440; 211611, 2220468; 211703, 2220566; 211753, 2220665; 211761, 2220714; 211810, 2220794; 211811, 2220884; 211862, 2220954; 211895, 2221066; 211936, 2221107; 212003, 2221115; 212026, 2221204; 212080, 2221243; 212124, 2221326; 212220, 2221402; 212224, 2221522; 212274, 2221597; 212292, 2221705; 212388, 2221798; 212459, 2221812; 212503, 2221840; 212510, 2221905; 212540, 2221974; 212507, 2222024; 212501, 2222072; 212543, 2222144; 212583, 2222162; 212627, 2222158; 212872, 2222265; 212987, 2222280; 213048, 2222334; 213150, 2222369; 213305, 2222475; 213389, 2222475; 213467, 2222537; 213685, 2222564; 213761, 2222548; 214042, 2222616; 214157, 2222613; 214239, 2222618; 214319, 2222611; return to starting point.

(ii) NOTE: Map 31 follows:

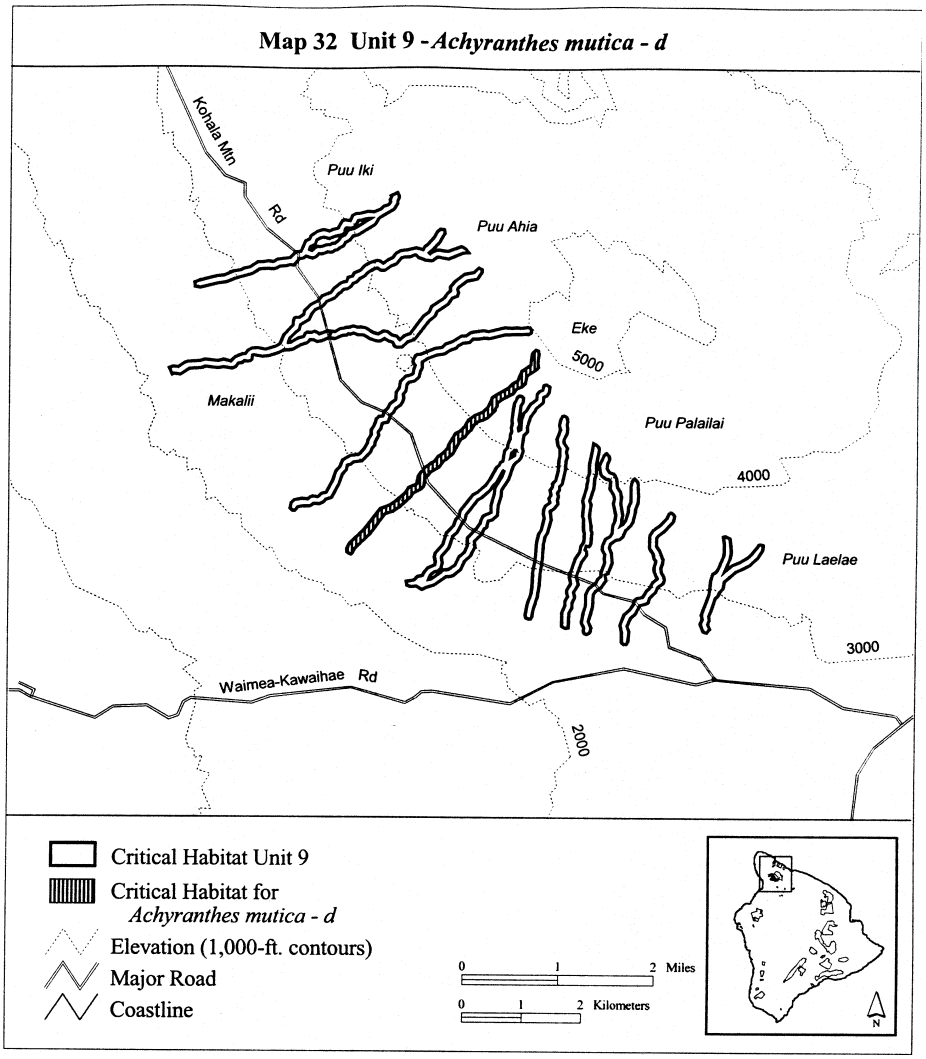


(32) Hawaii 9—*Achyranthes mutica*—d (58 ha, 143 ac)

(i) Unit consists of the following 83 boundary points: Start at 214438, 2221820; 214413, 2221797; 214386, 2221680; 214341, 2221624; 214236, 2221577; 214192, 2221506; 214008, 2221412; 213919, 2221344; 213917, 2221296; 213890, 2221262; 213884, 2221222; 213758, 2221097; 213685, 2221055; 213605, 2221031; 213535, 2220982; 213480, 2220882; 213407, 2220820; 213384, 2220774; 213316, 2220740; 213178, 2220485; 213084, 2220393; 213022, 2220355; 212956, 2220257; 212808, 2220171; 212777, 2220117; 212741, 2220090; 212715, 2220056; 212695, 2219935; 212668, 2219888; 212516, 2219808; 212489, 2219754; 212288, 2219567; 212179, 2219502; 212052, 2219459; 211790, 2219103; 211552, 2218878; 211513, 2218800; 211486, 2218774; 211451, 2218791; 211424, 2218818; 211424, 2218878; 211459, 2218955; 211700, 2219183; 211969, 2219547; 212135, 2219614; 212226, 2219670; 212391, 2219825; 212443, 2219903; 212578, 2219968; 212603, 2220105; 212654,

2220177; 212688, 2220198; 212709, 2220249; 212787, 2220293; 212824, 2220334; 212873, 2220352; 212940, 2220443; 213005, 2220484; 213090, 2220567; 213108, 2220631; 213225, 2220827; 213293, 2220862; 213379, 2220952; 213439, 2221062; 213540, 2221136; 213683, 2221191; 213768, 2221286; 213838, 2221437; 213939, 2221510; 214108, 2221602; 214163, 2221673; 214261, 2221717; 214322, 2221877; 214479, 2221995; 214474, 2222036; 214504, 2222187; 214564, 2222248; 214601, 2222232; 214615, 2222160; 214609, 2222121; 214595, 2222026; 214602, 2221949; 214578, 2221912; return to starting point.

(ii) NOTE: Map 32 follows:



(33) Hawaii 9—*Achyranthes mutica*—e (96 ha, 238 ac)

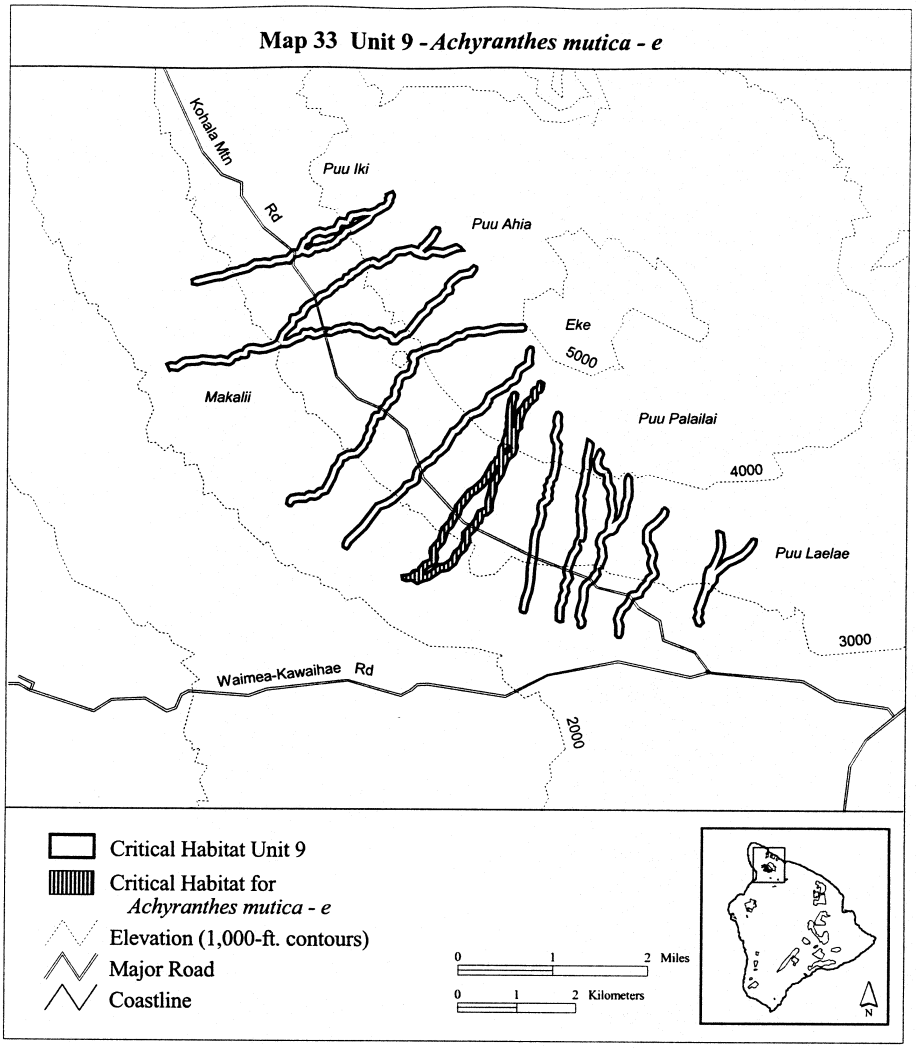
(i) Unit consists of the following 99 boundary points: Start at 214237, 2221396; 214246, 2221433; 214279, 2221468; 214325, 2221468; 214358, 2221436; 214355, 2221358; 214318, 2221305; 214305, 2221223; 214287, 2221049; 214300, 2220991; 214278, 2220930; 214286, 2220881; 214313, 2220902; 214322, 2221047; 214365, 2221179; 214410, 2221218; 214476, 2221333; 214576, 2221408; 214591, 2221498; 214624, 2221541; 214679, 2221569; 214698, 2221646; 214740, 2221664; 214796, 2221627; 214793, 2221531; 214759, 2221478; 214700, 2221448; 214690, 2221357; 214573, 2221258; 214555, 2221210; 214474, 2221113; 214430, 2220938; 214431, 2220859; 214371, 2220793; 214339, 2220598; 214356, 2220538; 214326, 2220426; 214294, 2220372; 214236, 2220332; 214188, 2220269; 214118, 2220061; 214005, 2219871; 213995, 2219762; 213945, 2219600; 213933, 2219438; 213852, 2219367; 213784, 2219348; 213756, 2219241; 213719, 2219214; 213680, 2219137; 213551, 2219003; 213560, 2218908; 213486, 2218751; 213396, 2218673; 213327, 2218524; 213204, 2218429; 213145, 2218404; 213092, 2218406; 212882, 2218263; 212764, 2218230; 212684, 2218191; 212589, 2218244; 212485, 2218242; 212425, 2218262; 212420, 2218327; 212558, 2218345; 212607, 2218406; 212693, 2218421; 212709, 2218465; 212774, 2218551; 212890, 2218603; 212903, 2218650; 212889, 2218747; 212904, 2218803; 213028, 2218949; 213082, 2219133; 213196, 2219265; 213245, 2219371; 213290, 2219423; 213311, 2219514; 213517, 2219786; 213597, 2219831; 213729, 2219948; 213812, 2220057; 213922, 2220266; 213959, 2220297; 213979, 2220340; 214024, 2220366; 214050, 2220531; 214097, 2220597; 214097, 2220637; 214143, 2220749; 214139, 2220807; 214167, 2220862; 214158, 2220933; 214175, 2221002; 214166, 2221051; 214187, 2221243; 214206, 2221349; return to starting point.

(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; 213007, 2218725; 213013, 2218754; 213131, 2218887; 213194, 2219087; 213261, 2219149; 213346, 2219306; 213394, 2219361; 213412, 2219449; 213602, 2219700; 213668, 2219734; 213820, 2219870; 213852, 2219933; 213913, 2219992; 214024, 2220195; return to starting point.

(iii) NOTE: Map 33 follows:

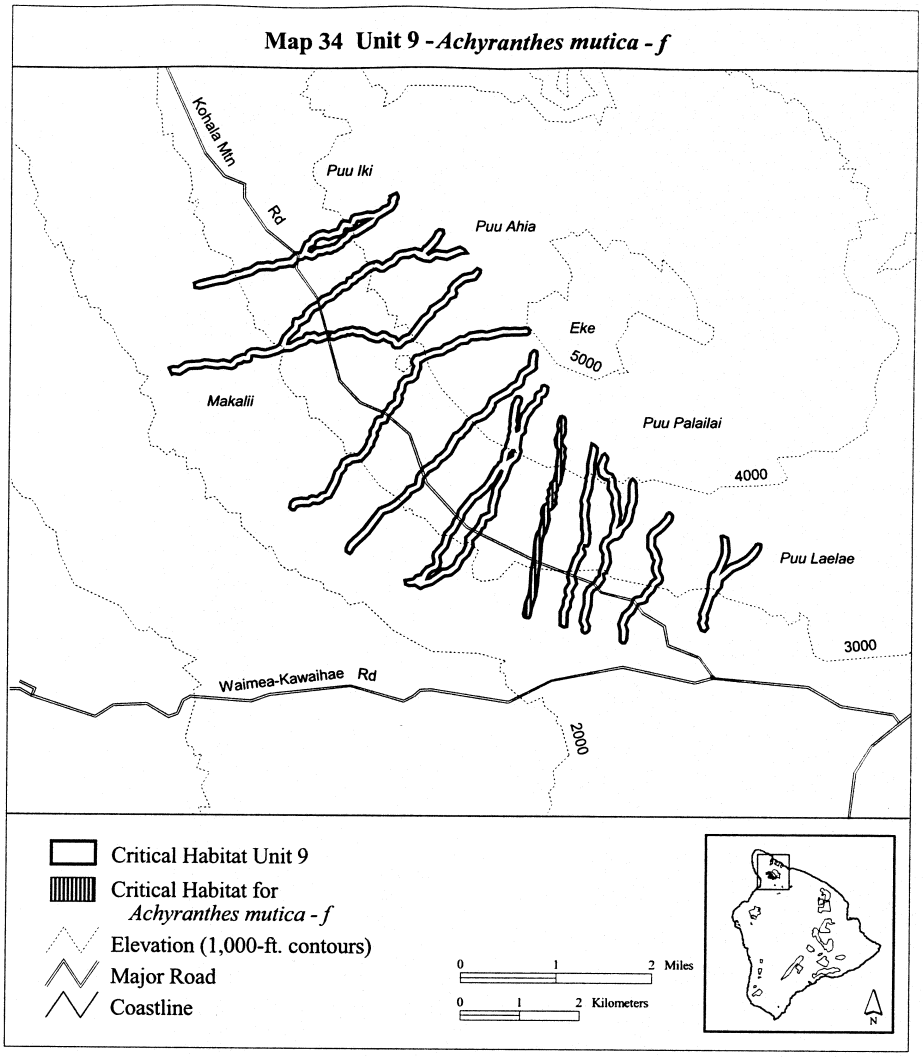


(34) Hawaii 9—*Achyranthes mutica*—f (43 ha, 105 ac)

(i) Unit consists of the following 65 boundary points: Start at 215029, 2221141; 215078, 2221118; 215100, 2221081; 215105, 2221047; 215092, 2220971; 215106, 2220903; 215094, 2220834; 215046, 2220727; 215049, 2220676; 215102, 2220585; 215091, 2220525; 215103, 2220441; 215078, 2220357; 215072, 2220203; 215020, 2219976; 214978, 2219936; 214975, 2219872; 214947, 2219833; 214959, 2219766; 214941, 2219705; 214948, 2219637; 214883, 2219550; 214829, 2219519; 214843, 2219377; 214782, 2219151; 214741, 2219084; 214717, 2218965; 214700, 2218708; 214660, 2218467; 214650, 2218237; 214625, 2218082; 214553, 2217870; 214527, 2217739; 214511, 2217708; 214476, 2217702; 214431, 2217728; 214417, 2217776; 214449, 2217955; 214510, 2218118; 214530, 2218247; 214540, 2218479; 214581, 2218725; 214598, 2218985; 214627, 2219125; 214669, 2219193; 214725, 2219396; 214706, 2219465; 214712, 2219549; 214738, 2219603; 214819, 2219663; 214796,

2219730; 214835, 2219788; 214819, 2219871; 214858, 2219922; 214862, 2219981; 214908, 2220033; 214951, 2220206; 214958, 2220369; 214981, 2220452; 214979, 2220577; 214947, 2220626; 214924, 2220735; 214985, 2220898; 214972, 2220976; 214987, 2221070; return to starting point.

(ii) NOTE: Map 34 follows:

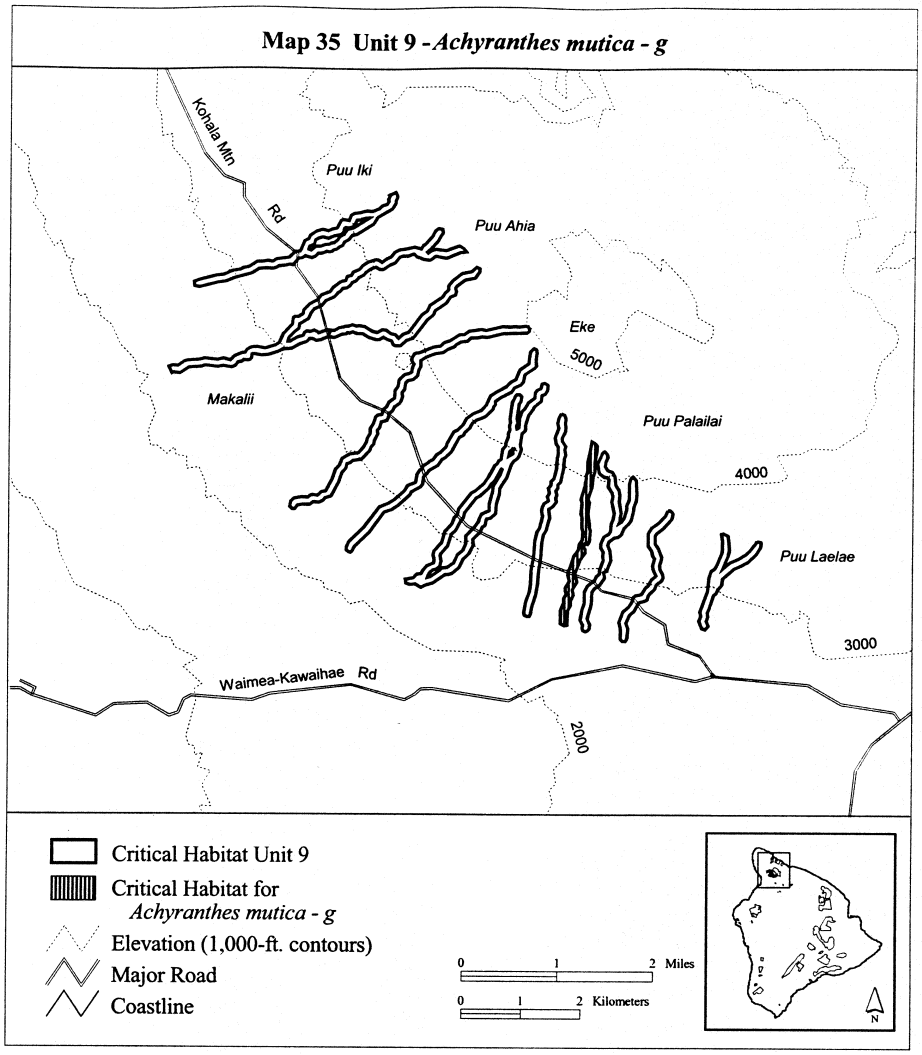


(35) Hawaii 9—*Achyranthes mutica*—g (37 ha, 92 ac)

(i) Unit consists of the following 58 boundary points: Start at 215603, 2220632; 215636, 2220594; 215638, 2220532; 215595, 2220313; 215594, 2220146; 215573, 2220086; 215557, 2219909; 215486, 2219693; 215509, 2219626; 215490, 2219443; 215514, 2219279; 215507, 2219212; 215525, 2219154; 215513, 2218965; 215487, 2218921; 215439, 2218935; 215421, 2218871; 215447, 2218842;

215441, 2218779; 215356, 2218664; 215275, 2218426; 215304, 2218286; 215233, 2218154; 215249, 2218060; 215206, 2217972; 215206, 2217897; 215158, 2217810; 215145, 2217560; 215094, 2217556; 215038, 2217584; 215038, 2217818; 215090, 2217932; 215089, 2218007; 215131, 2218085; 215109, 2218142; 215112, 2218184; 215185, 2218304; 215155, 2218404; 215160, 2218458; 215247, 2218714; 215328, 2218821; 215342, 2218926; 215394, 2219001; 215403, 2219144; 215387, 2219204; 215383, 2219387; 215367, 2219431; 215388, 2219616; 215365, 2219699; 215438, 2219924; 215431, 2219963; 215454, 2220022; 215453, 2220094; 215475, 2220163; 215474, 2220317; 215523, 2220516; 215533, 2220621; 215545, 2220669; return to starting point.

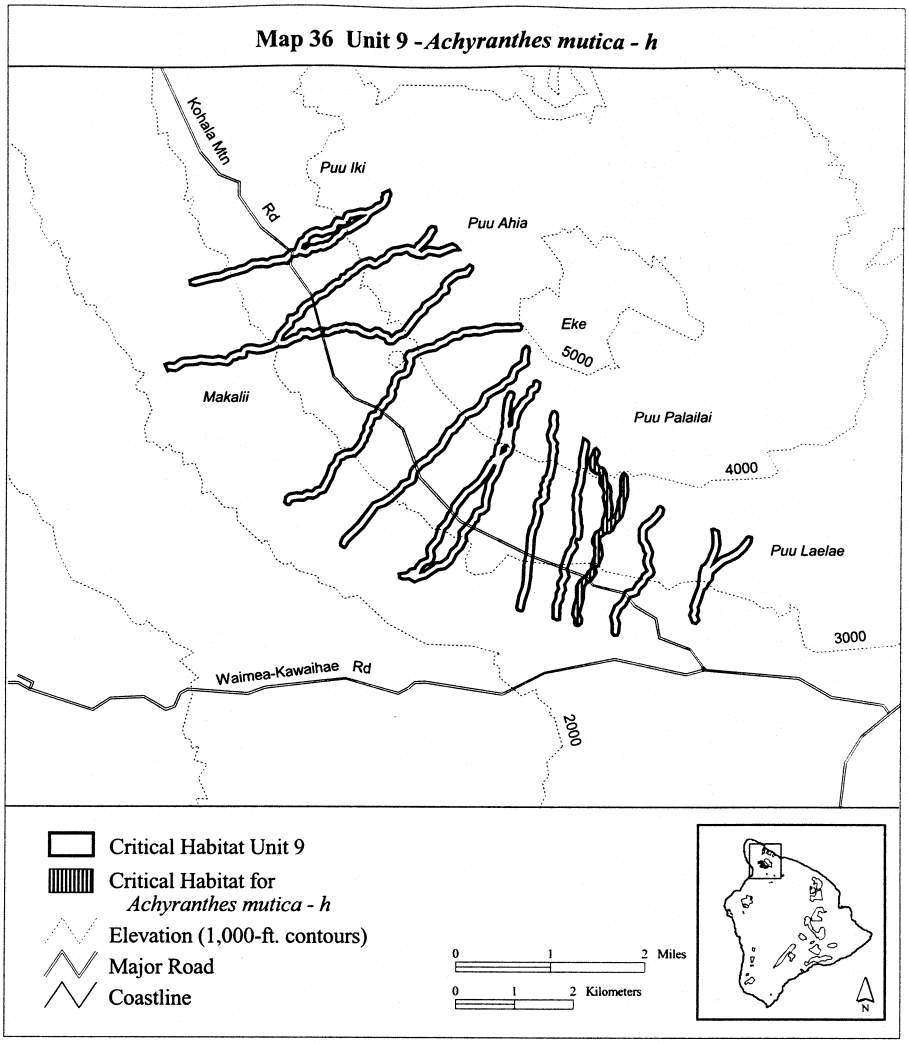
(ii) NOTE: Map 35 follows:



(36) Hawaii 9—*Achyranthes mutica*—h (51 ha, 127 ac)

(i) Unit consists of the following 89 boundary points: Start at 215734, 2220485; 215765, 2220497; 215804, 2220452; 215818, 2220397; 215784, 2220322; 215772, 2220245; 215817, 2220179; 215889, 2220150; 215937, 2220077; 215955, 2219923; 215999, 2219846; 216021, 2219758; 216009, 2219647; 216048, 2219449; 216024, 2219367; 216031, 2219325; 216010, 2219282; 216053, 2219305; 216094, 2219364; 216137, 2219519; 216139, 2219583; 216177, 2219682; 216178, 2219953; 216194, 2220018; 216223, 2220058; 216259, 2220059; 216289, 2220016; 216301, 2219987; 216298, 2219945; 216308, 2219773; 216295, 2219664; 216254, 2219549; 216260, 2219498; 216212, 2219335; 216179, 2219277; 216099, 2219197; 216052, 2219098; 215990, 2219041; 215937, 2219032; 215843, 2218966; 215826, 2218898; 215861, 2218819; 215873, 2218650; 215805, 2218472; 215755, 2218447; 215775, 2218360; 215691, 2218233; 215604, 2218175; 215561, 2218121; 215555, 2217915; 215490, 2217671; 215528, 2217566; 215517, 2217489; 215481, 2217456; 215448, 2217452; 215415, 2217471; 215399, 2217507; 215407, 2217557; 215371, 2217647; 215391, 2217794; 215436, 2217930; 215438, 2218124; 215486, 2218223; 215604, 2218316; 215641, 2218385; 215687, 2218427; 215688, 2218503; 215752, 2218652; 215738, 2218734; 215745, 2218785; 215706, 2218864; 215704, 2218932; 215753, 2219051; 215835, 2219097; 215867, 2219146; 215875, 2219268; 215910, 2219348; 215926, 2219453; 215888, 2219641; 215902, 2219734; 215881, 2219806; 215827, 2219895; 215830, 2220023; 215804, 2220057; 215765, 2220062; 215684, 2220120; 215664, 2220161; 215649, 2220293; 215707, 2220428; return to starting point.

(ii) NOTE: Map 36 follows:

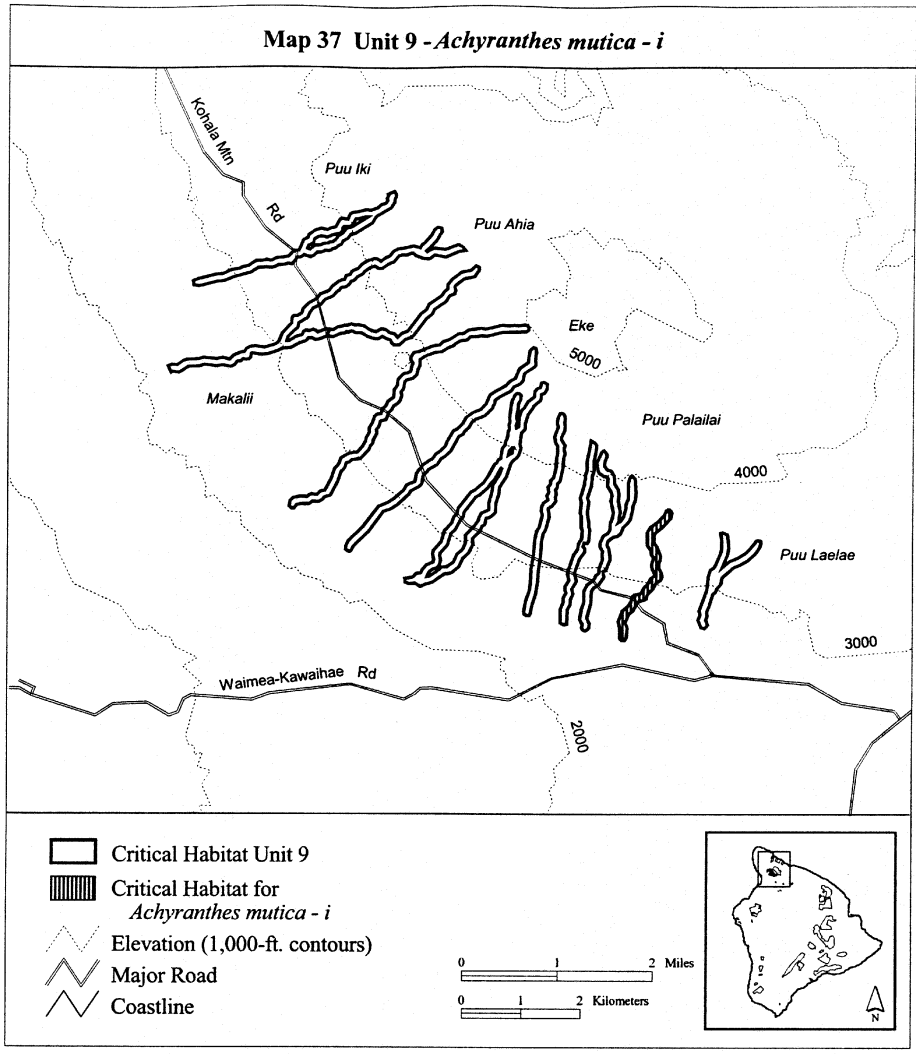


(37) Hawaii 9—*Achyranthes mutica*—i (31 ha, 76 ac)

(i) Unit consists of the following 54 boundary points: Start at 216834, 2219498; 216868, 2219502; 216901, 2219476; 216916, 2219442; 216903, 2219353; 216759, 2219197; 216646, 2219111; 216624, 2219076; 216621, 2218932; 216675, 2218863; 216728, 2218712; 216725, 2218649; 216696, 2218569; 216704, 2218501; 216752, 2218421; 216755, 2218361; 216727, 2218309; 216657, 2218257; 216603, 2218151; 216551, 2218112; 216511, 2218060; 216492, 2217991; 216451, 2217967; 216352, 2217946; 216275, 2217799; 216194, 2217733; 216138, 2217593; 216168, 2217500; 216154, 2217339; 216130, 2217288; 216078, 2217289; 216046, 2217330; 216047, 2217501; 216017, 2217608; 216088, 2217792; 216177, 2217870; 216230, 2217941; 216264, 2218034; 216303, 2218058; 216396, 2218077; 216458, 2218191; 216514, 2218232; 216562, 2218330; 216635, 2218388; 216586, 2218499; 216576, 2218561; 216609, 2218685; 216581, 2218726; 216562, 2218818; 216503, 2218897; 216504,

2219112; 216559, 2219201; 216683, 2219290; 216791, 2219410; return to starting point.

(ii) NOTE: Map 37 follows:

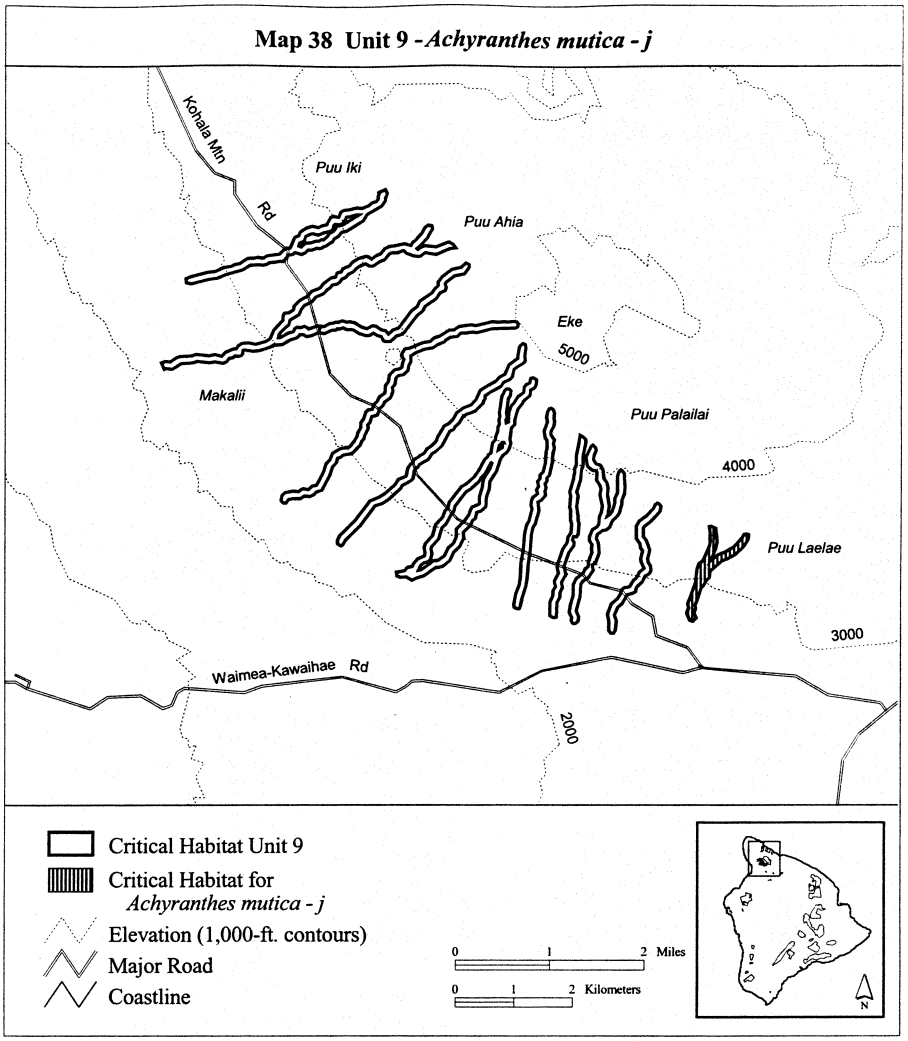


(38) Hawaii 9—*Achyranthes mutica*—j (33 ha, 81 ac)

(i) Unit consists of the following 45 boundary points: Start at 218342, 2218980; 218378, 2218973; 218407, 2218964; 218411, 2218929; 218400, 2218875; 218323, 2218752; 218189, 2218630; 218079, 2218566; 217956, 2218519; 217764, 2218345; 217745, 2218240; 217685, 2218167; 217657, 2218101; 217608, 2218068; 217537, 2217828; 217508, 2217776; 217518, 2217705; 217495, 2217636; 217530, 2217550; 217478, 2217497; 217416, 2217507; 217370, 2217634; 217398, 2217718; 217386, 2217786; 217509, 2218141; 217535, 2218373; 217570, 2218472; 217631, 2218518;

217662, 2218576; 217748, 2218779; 217756, 2218840; 217758, 2218986; 217738, 2219099; 217771, 2219108; 217806, 2219095; 217846, 2219075; 217869, 2218958; 217876, 2218841; 217861, 2218736; 217768, 2218520; 217898, 2218624; 218030, 2218675; 218152, 2218753; 218233, 2218832; 218305, 2218922; return to starting point.

(ii) NOTE: Map 38 follows:

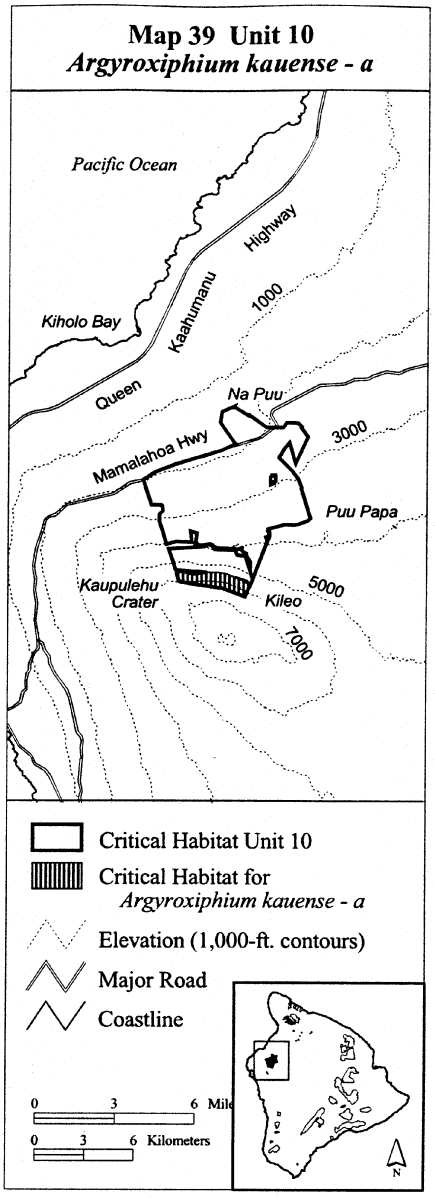


(39) Hawaii 10—*Argyroxiphium kauense*—a (349 ha, 861 ac)

(i) Unit consists of the following 22 boundary points: Start at 196364, 2183671; 196588, 2183730; 197040, 2183678; 197248, 2183609; 197370, 2183522; 197891, 2183644; 198395, 2183678; 198917, 2183661; 199421, 2183574; 199838, 2183400; 200064, 2183261; 200498, 2183174; 200689, 2183053; 200869, 2183009; 200548, 2182197; 199189,

2182675; 199188, 2182675; 198920, 2182722; 197323, 2182971; 196589, 2183108; 196526, 2183207; 196397, 2183572; return to starting point.

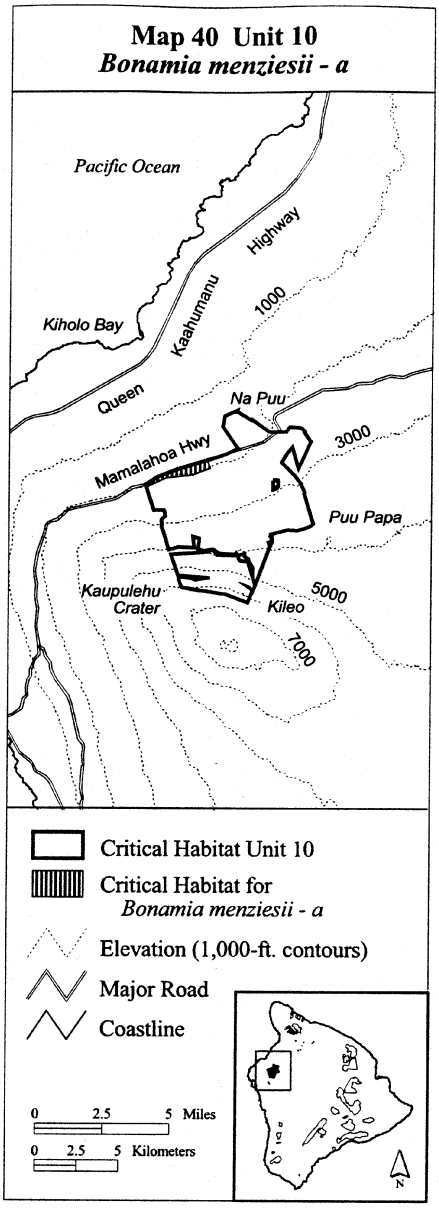
(ii) NOTE: Map 39 follows:



(40) Hawaii 10—*Bonamia menziesii*—a (163 ha, 402 ac)

(i) Unit consists of the following 12 boundary points: Start at 194344, 2189312; 194345, 2189312; 195096, 2189814; 195763, 2190048; 196316, 2190285; 198038, 2190803; 198120, 2190635; 198240, 2190325; 197169, 2189897; 195603, 2189733; 194504, 2189243; 194375, 2189221; return to starting point.

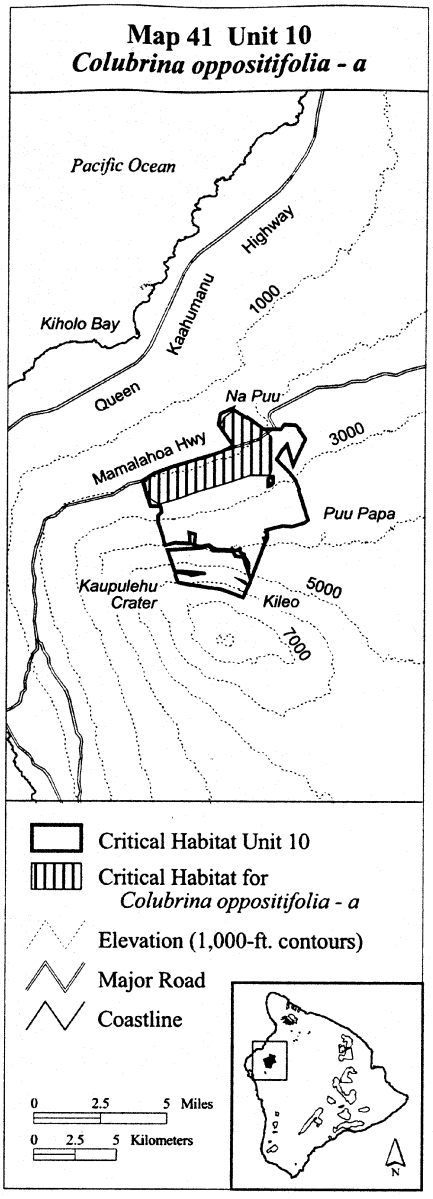
(ii) NOTE: Map 40 follows:



(41) Hawaii 10—*Colubrina oppositifolia*—a (1,918 ha, 4,740 ac)

(i) Unit consists of the following 23 boundary points: Start at 194733, 2188289; 194501, 2189318; 195028, 2189765; 196242, 2190221; 199593, 2191274; 200077, 2191445; 199462, 2192171; 199079, 2192786; 199311, 2193260; 199926, 2193724; 200763, 2193240; 201809, 2192548; 202245, 2192040; 202231, 2191144; 202231, 2190040; 202215, 2189832; 202071, 2189709; 200959, 2189699; 199966, 2189369; 199139, 2189093; 197714, 2188688; 196629, 2188284; 195353, 2187919; return to starting point.

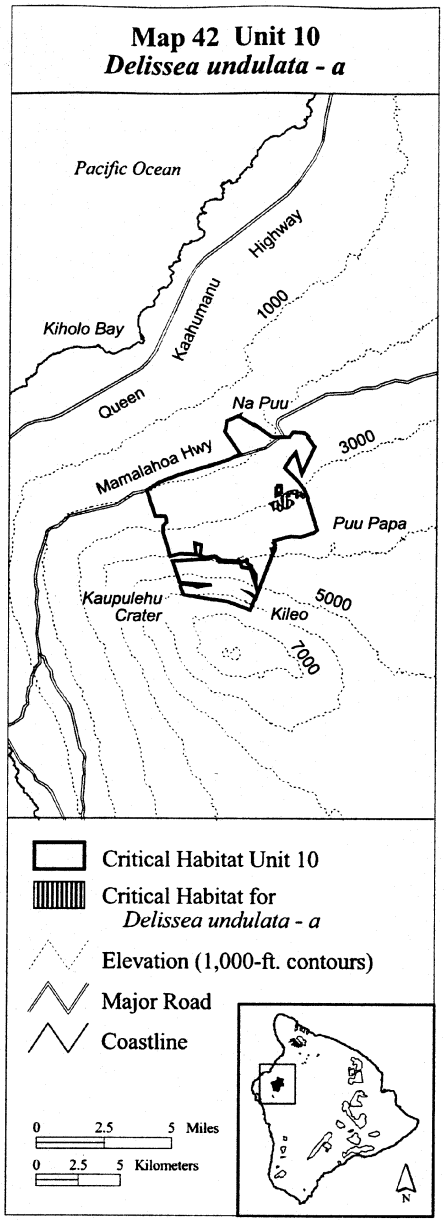
(ii) NOTE: Map 41 follows:



(42) Hawaii 10—*Delissea undulata*—a (92 ha, 227 ac)

(i) Unit consists of the following 50 boundary points: Start at 201717, 2188574; 201906, 2188644; 202144, 2188700; 202144, 2188602; 202284, 2188434; 202305, 2188399; 202452, 2188462; 202347, 2188728; 202326, 2188868; 202389, 2188952; 202459, 2189036; 202543, 2189120; 202683, 2189204; 202781, 2189288; 202922, 2189330; 203132, 2189365; 203279, 2189365; 203279, 2189260; 203454, 2189225; 203650, 2189113; 203776, 2188959; 203629, 2188868; 203419, 2189043; 203342, 2188910; 203258, 2188868; 203202, 2188945; 203272, 2189113; 203104, 2189120; 202886, 2189162; 202830, 2189099; 202865, 2189001; 202641, 2188966; 202711, 2188798; 202915, 2188742; 203041, 2188672; 203097, 2188602; 203041, 2188490; 202915, 2188497; 202901, 2188420; 202851, 2188322; 202627, 2188210; 202550, 2188280; 202382, 2188147; 202242, 2188070; 202095, 2188217; 201983, 2188231; 201913, 2188119; 201822, 2188224; 201850, 2188343; 201668, 2188553; return to starting point.

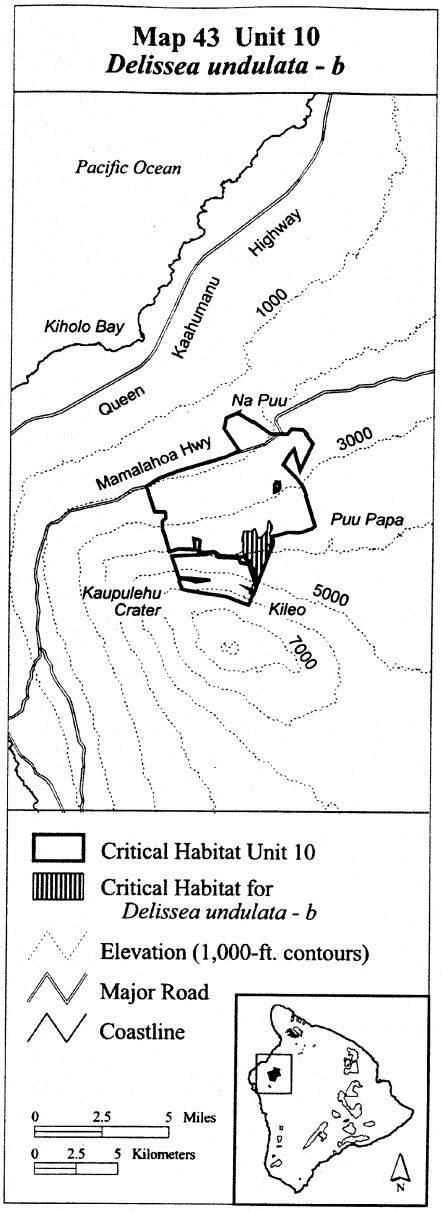
(ii) NOTE: Map 42 follows:



(43) Hawaii 10—*Delissea undulata*—b (379 ha, 938 ac)

(i) Unit consists of the following 46 boundary points: Start at 200358, 2186648; 200652, 2186613; 200897, 2186774; 201009, 2186431; 201114, 2186199; 201409, 2186389; 201640, 2186683; 201675, 2187187; 201738, 2187292; 201892, 2186998; 201913, 2186767; 201843, 2186571; 201780, 2186522; 201808, 2186312; 201913, 2186347; 201969, 2186227; 201899, 2186178; 201997, 2186038; 201934, 2185947; 201987, 2185871; 201923, 2185703; 201864, 2185800; 201794, 2185800; 201857, 2185569; 201871, 2185564; 200825, 2182788; 200596, 2182893; 200701, 2183146; 200785, 2183391; 200890, 2183440; 200841, 2183566; 200848, 2183755; 200806, 2183860; 200855, 2183958; 200862, 2184287; 200596, 2184708; 200596, 2184820; 200351, 2184974; 200316, 2185219; 200197, 2185261; 200183, 2185695; 200204, 2185919; 200092, 2186010; 200113, 2186199; 200169, 2186375; 200211, 2186634; return to starting point.

(ii) NOTE: Map 43 follows:

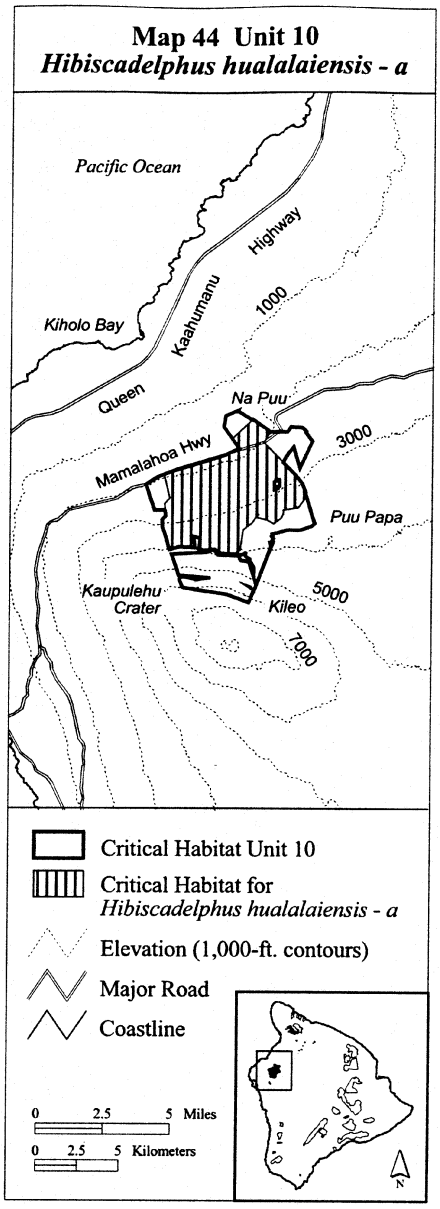


(44) Hawaii 10—*Hibiscadelphus hualalaiensis*—a (3,979 ha, 9,831 ac)

(i) Unit consists of the following 38 boundary points: Start at 195782, 2185368; 195522, 2186168; 195315, 2186796; 195326, 2187196; 195544, 2187388; 195469, 2188155; 195786, 2188492; 195432, 2189916; 199124, 2191069; 199983, 2191543; 199508, 2192106; 200761, 2193288; 201812, 2192545; 201404, 2191895; 203343, 2189879; 203681, 2189439; 203918, 2188866; 203785, 2188371; 203480, 2187932; 202574, 2187761; 202584, 2187526; 202456, 2187271; 201998, 2186930; 201572, 2187207; 200965, 2187345; 200731, 2186962; 200177, 2186557; 200011, 2185340; 199774, 2185089; 198932, 2185139; 198670, 2185243; 198391, 2185428; 198036, 2185330; 197566, 2185385; 197604, 2186079; 197221, 2186183; 197270, 2185549; 196319, 2185538; return to starting point.

(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, 2189024; 202020, 2189151; 202024, 2189554; return to starting point.

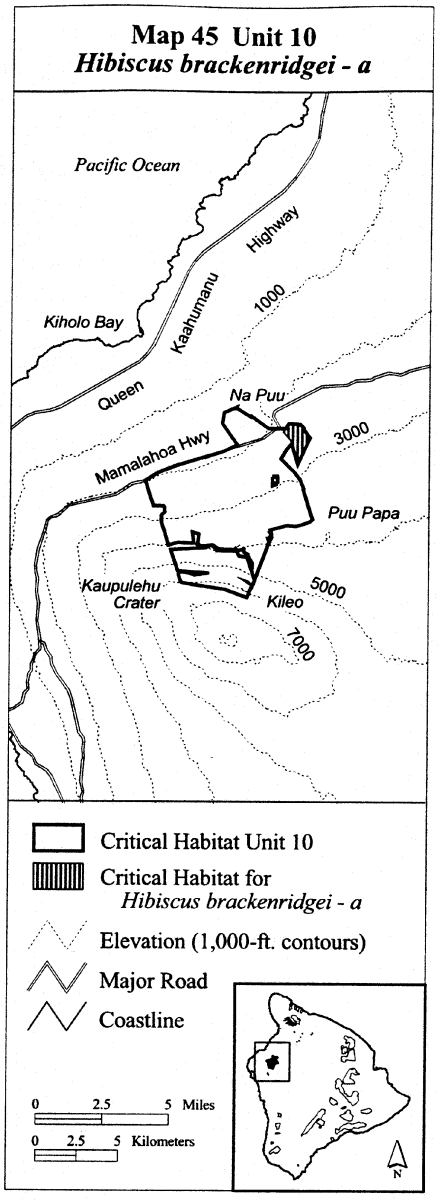
(iii) NOTE: Map 44 follows:



(45) Hawaii 10—*Hibiscus brackenridgei*—a (196 ha, 485 ac)

(i) Unit consists of the following six boundary points: Start at 202687, 2192346; 203014, 2192842; 203739, 2192737; 204306, 2191983; 203553, 2190355; 203111, 2191829; return to starting point.

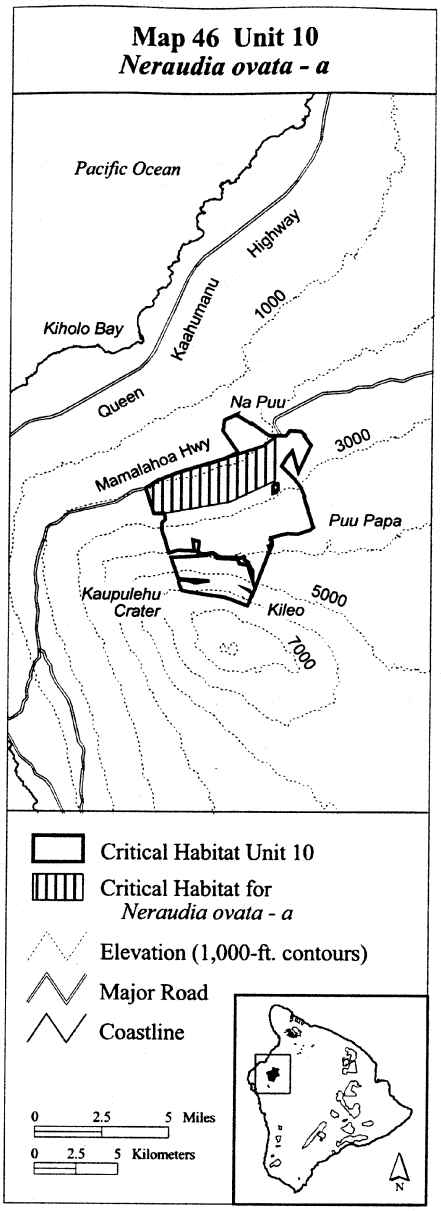
(ii) NOTE: Map 45 follows:



(46) Hawaii 10—*Neraudia ovata*—a (1,859 ha, 4,593 ac)

(i) Unit consists of the following 15 boundary points: Start at 194344, 2189314; 194343, 2189318; 194355, 2189326; 195020, 2189752; 195454, 2189938; 196227, 2190232; 199076, 2191106; 201428, 2191880; 202171, 2192469; 202165, 2191079; 202163, 2189814; 199428, 2188470; 195418, 2187770; 194855, 2187783; 194588, 2188581; return to starting point.

(ii) NOTE: Map 46 follows:

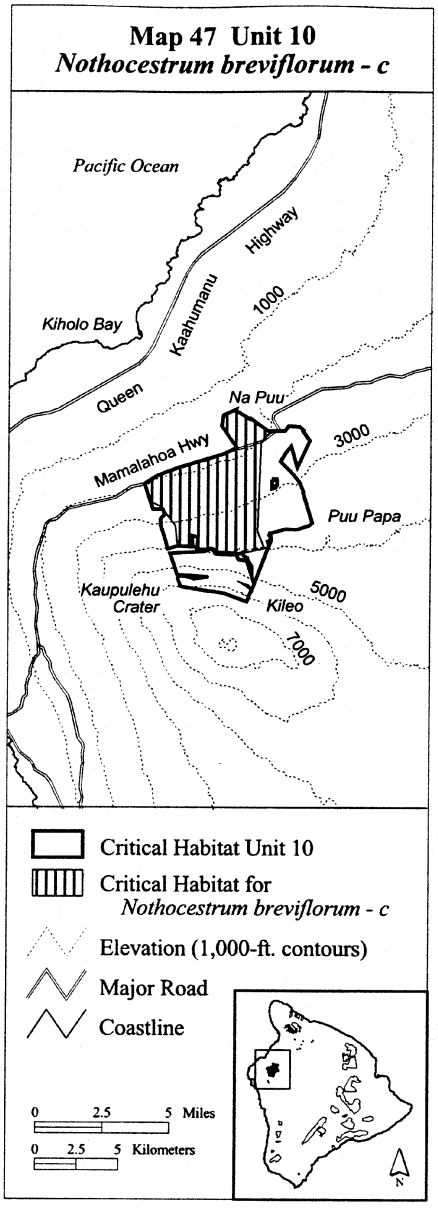


(47) Hawaii 10—*Nothocestrum breviflorum*—c (3,627 ha, 8,964 ac)

(i) Unit consists of the following 29 boundary points: Start at 194693, 2188269; 194383, 2189286; 195034, 2189776; 195460, 2189937; 196240, 2190194; 199103,

2191128; 199891, 2191533; 198991, 2192862; 199103, 2193492; 199824, 2193830; 199804, 2193770; 200696, 2193256; 201895, 2192456; 201355, 2191804; 201174, 2186424; 201586, 2185393; 199915, 2185040; 199838, 2185152; 198796, 2185246; 198417, 2185384; 197754, 2185341; 197538, 2185442; 197616, 2186073; 197228, 2186185; 197289, 2185505; 196333, 2185522; 196200, 2186785; 195323, 2187943; 194697, 2188256; return to starting point.

(ii) NOTE: Map 47 follows:

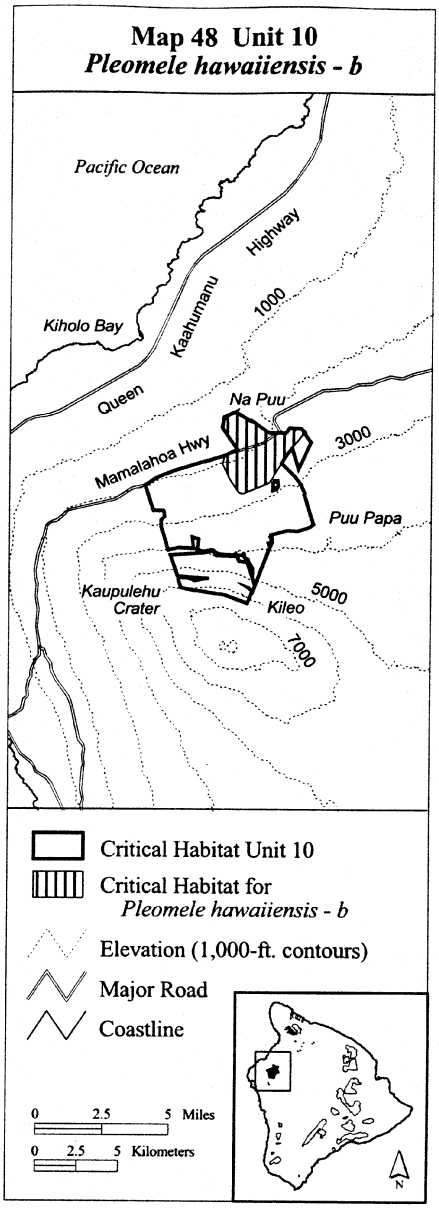


(48) Hawaii 10—*Pleomele hawaiiensis*—b (1,338 ha, 3,306 ac)

(i) Unit consists of the following 19 boundary points: Start at 199227, 2191119; 199931, 2191535; 199427, 2192287;

198994, 2192926; 199211, 2193518; 199835, 2193778; 201804, 2192540; 202800, 2192542; 203018, 2192863; 203684, 2192822; 203919, 2192569; 203588, 2192149; 202916, 2191296; 201823, 2189505; 200231, 2188809; 200012, 2188896; 199513, 2189670; 199023, 2190652; 199126, 2191046; return to starting point.

(ii) NOTE: Map 48 follows:

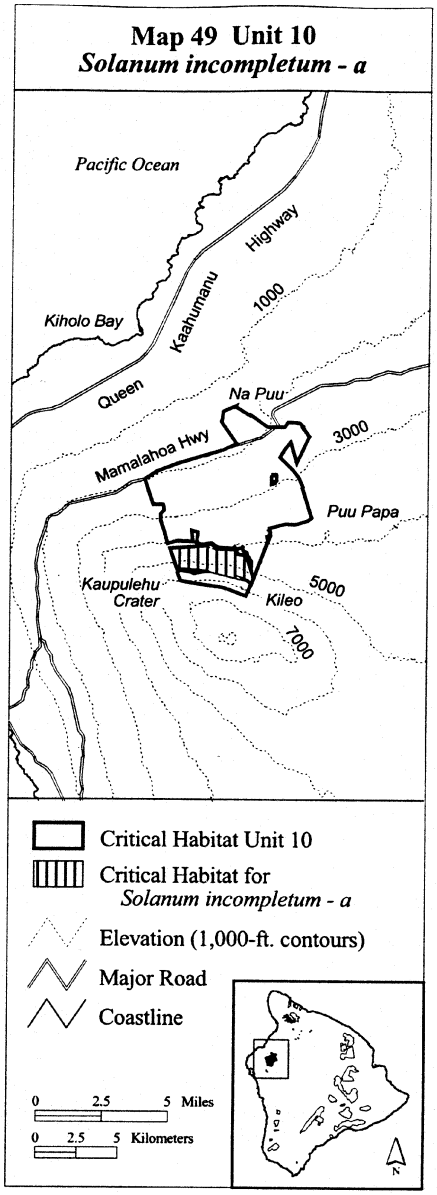


(49) Hawaii 10—*Solanum incompletum*—a (705 ha, 1,741 ac)

(i) Unit consists of the following 14 boundary points: Start at 200840, 2183071; 200105, 2183211; 198217, 2183674;

196354, 2183822; 195904, 2185079; 198074, 2185218; 198313, 2185355; 198524, 2185294; 198681, 2185062; 199717, 2185030; 199911, 2185024; 200028, 2184733; 200540, 2184657; 200956, 2183332; return to starting point.

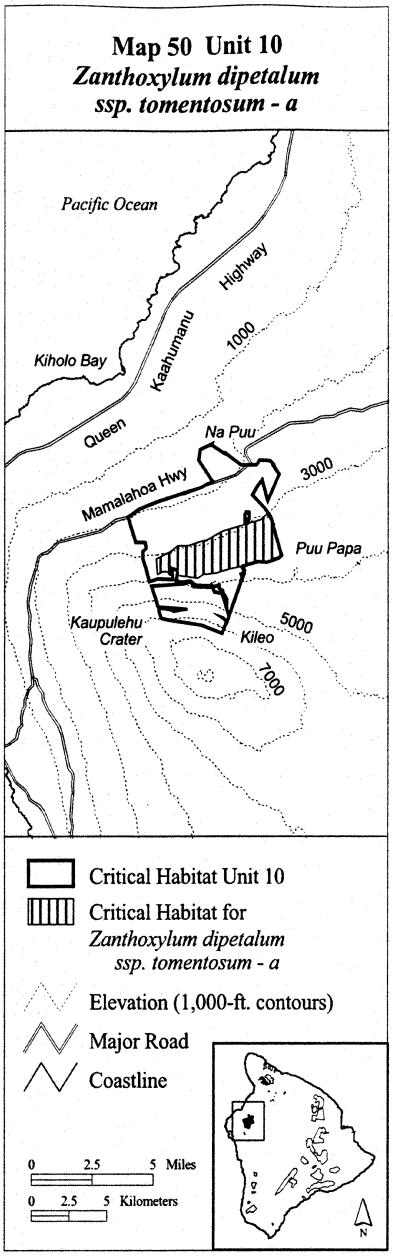
(ii) NOTE: Map 49 follows:



(50) Hawaii 10—*Zanthoxylum dipetalum* ssp. *tomentosum*—a (1,685 ha, 4,164 ac)

(i) Unit consists of the following 30 boundary points: Start at 204490, 2186961; 204259, 2186791; 203663, 2186586; 203502, 2186552; 202908, 2186594; 202064, 2186341; 200938, 2186115; 200094, 2185862; 199277, 2185806; 198968, 2185581; 197898, 2185721; 197620, 2185755; 197630, 2186116; 197213, 2186192; 197260, 2185765; 197082, 2185778; 196970, 2185975; 196660, 2185975; 196294, 2185806; 196217, 2186760; 197251, 2187269; 197645, 2187579; 198321, 2187579; 199334, 2187860; 199503, 2187860; 200544, 2188451; 203129, 2189150; 203527, 2189491; 203802, 2189055; 203972, 2188619; return to starting point.

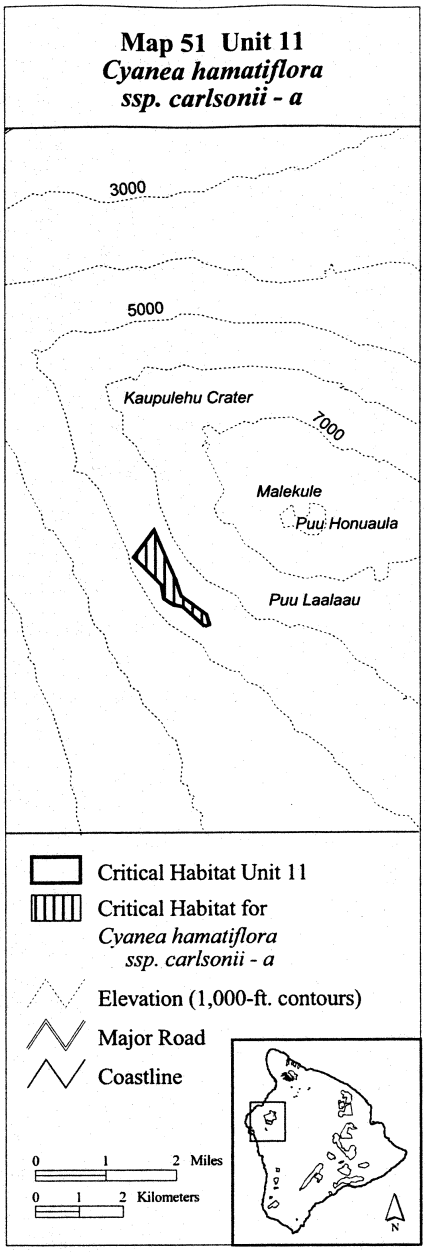
(ii) NOTE: Map 50 follows:



(51) Hawaii 11—*Cyanea hamatiflora* ssp. *carlsonii*—a (92 ha, 227 ac)

(i) Unit consists of the following 11 boundary points: Start at 197174, 2177104; 196674, 2177566; 196458, 2177613; 196239, 2177751; 196187, 2178067; 195553, 2178701; 196028, 2179334; 196530, 2178147; 196637, 2177811; 197221, 2177377; 197278, 2177142; return to starting point.

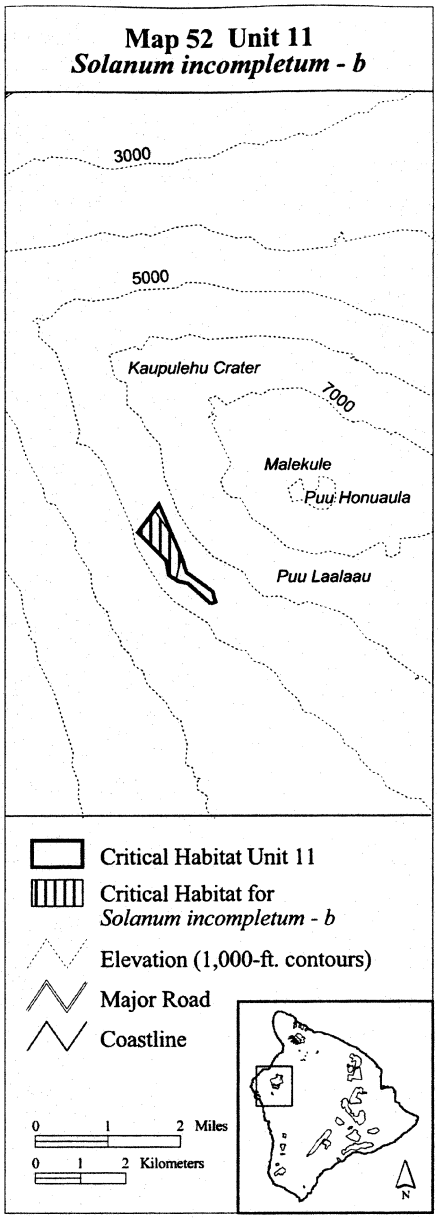
(ii) NOTE: Map 51 follows:



(52) Hawaii 11—*Solanum incompletum*—b (57 ha, 141 ac)

(i) Unit consists of the following seven boundary points: Start at 195939, 2179184; 196289, 2178679; 196513, 2178138; 196403, 2177670; 196252, 2177759; 196204, 2178081; 195581, 2178700; return to starting point.

(ii) NOTE: Map 52 follows:

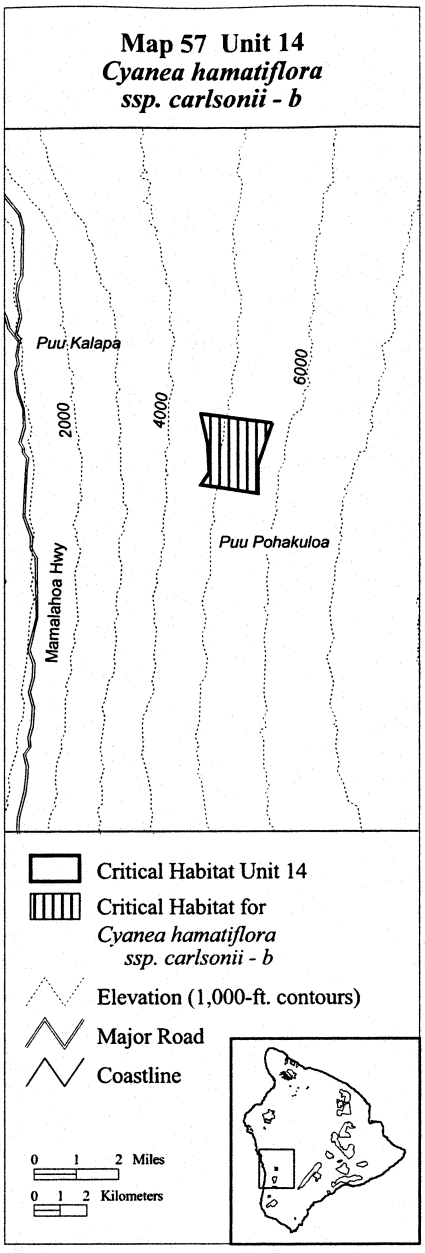


(53) [Reserved]–56

(57) Hawaii 14—*Cyanea hamatiflora* ssp. *carlsonii*—b (597 ha, 1,475 ac)

(i) Unit consists of the following 10 boundary points: Start at 207156, 2146304; 207134, 2146239; 206598, 2144681; 206598, 2143570; 204429, 2143915; 204728, 2144393; 204674, 2145490; 204674, 2145491; 204426, 2146629; 204425, 2146649; return to starting point.

(ii) NOTE: Map 57 follows:

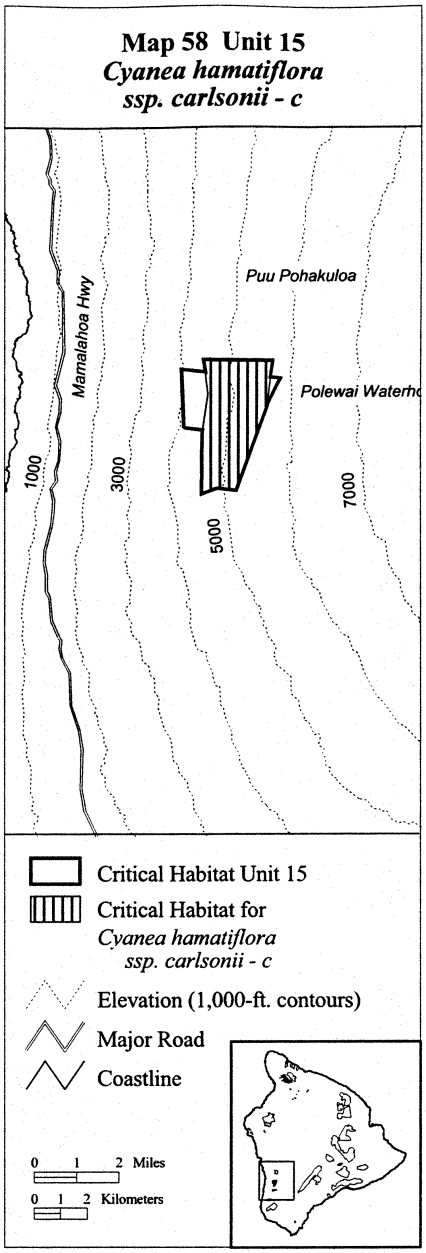


(58) Hawaii 15—*Cyanea hamatiflora* ssp. *carlsonii*—c (1,045 ha, 2,583 ac)

(i) Unit consists of the following eight boundary points: Start at 205937,

2136720; 204747, 2133469; 204039, 2133547; 203420, 2133302; 203440, 2135670; 203670, 2137181; 203517, 2138526; 206149, 2138468; return to starting point.

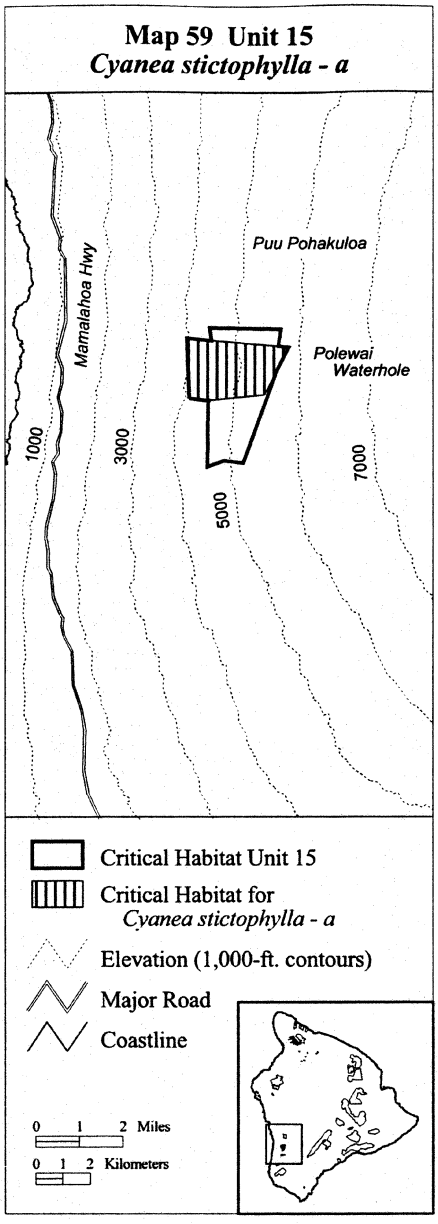
(ii) NOTE: Map 58 follows:



(59) Hawaii 15—*Cyanea stictophylla*—a (685 ha, 1,693 ac)

(i) Unit consists of the following five boundary points: Start at 202738, 2135888; 202669, 2138135; 206446, 2137807; 205568, 2136027; 203447, 2135810; return to starting point.

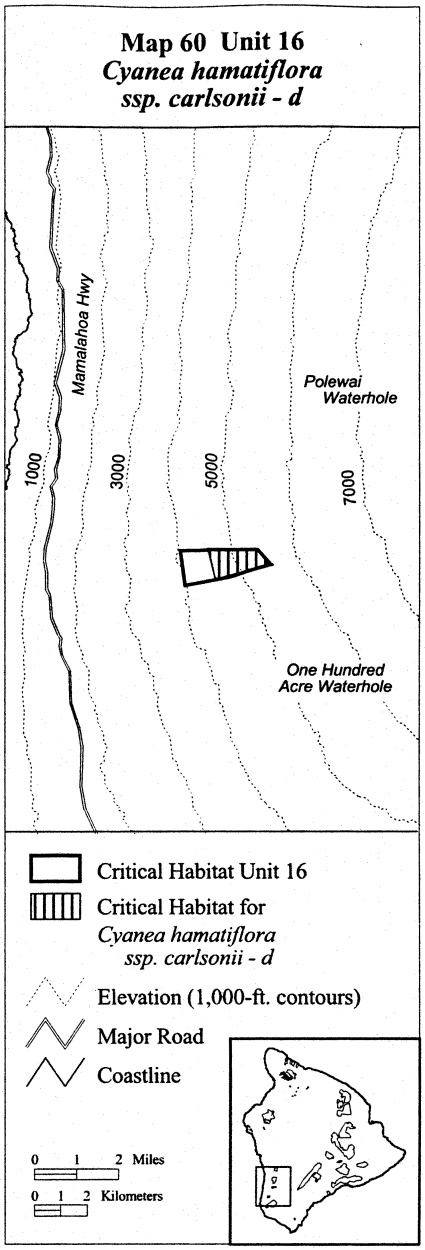
(ii) NOTE: Map 59 follows:



(60) Hawaii 16—*Cyanea hamatiflora* ssp. *carlsonii*—d (186 ha, 459 ac)

(i) Unit consists of the following four boundary points: Start at 203994, 2129916; 203715, 2131071; 205603, 2131073; 206118, 2130489; return to starting point.

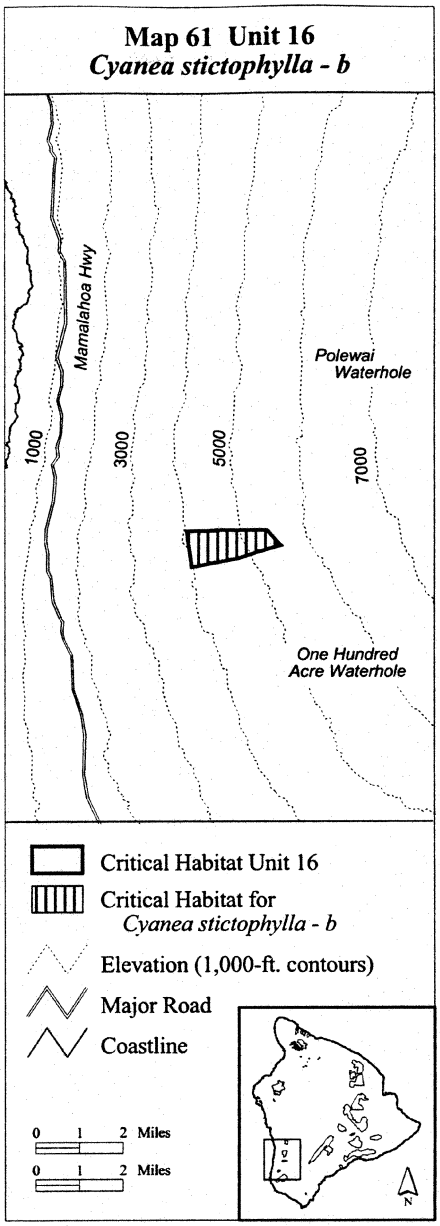
(ii) NOTE: Map 60 follows:



(61) Hawaii 16—*Cyanea stictophylla*—b (327 ha, 809 ac)

(i) Unit consists of the following five boundary points: Start at 206085, 2130525; 204548, 2130013; 202838, 2129682; 202649, 2131030; 205588, 2131077; return to starting point.

(ii) NOTE: Map 61 follows:

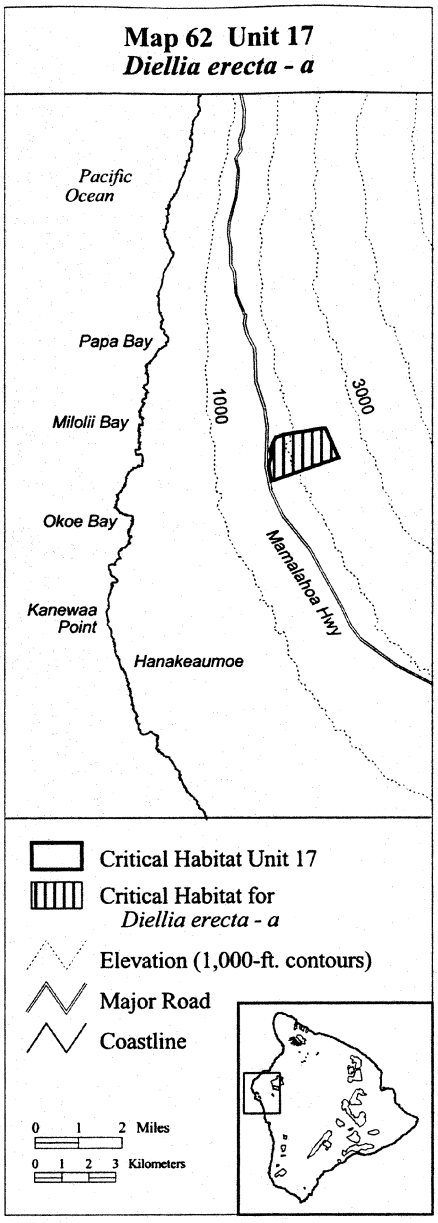


(62) Hawaii 17—*Diellia erecta*—a (329 ha, 814 ac)

(i) Unit consists of the following nine boundary points: Start at 199021, 2121439; 198916, 2122019; 199049, 2122319;

199008, 2122707; 199063, 2122847; 199186, 2123092; 199520, 2123204; 201031, 2123446; 201505, 2122323; return to starting point.

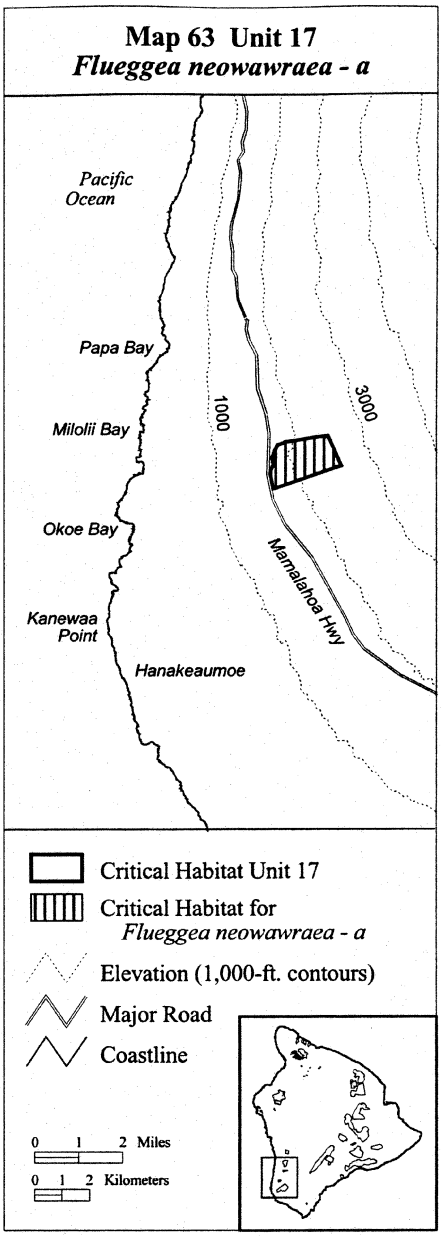
(ii) NOTE: Map 62 follows:



(63) Hawaii 17—*Flueggea neowawraea*—a (327 ha, 807 ac)

(i) Unit consists of the following eight boundary points: Start at 199031, 2121453; 198919, 2122094; 199007, 2122357; 198981, 2122641; 199188, 2123085; 199474, 2123194; 201018, 2123445; 201491, 2122325; return to starting point.

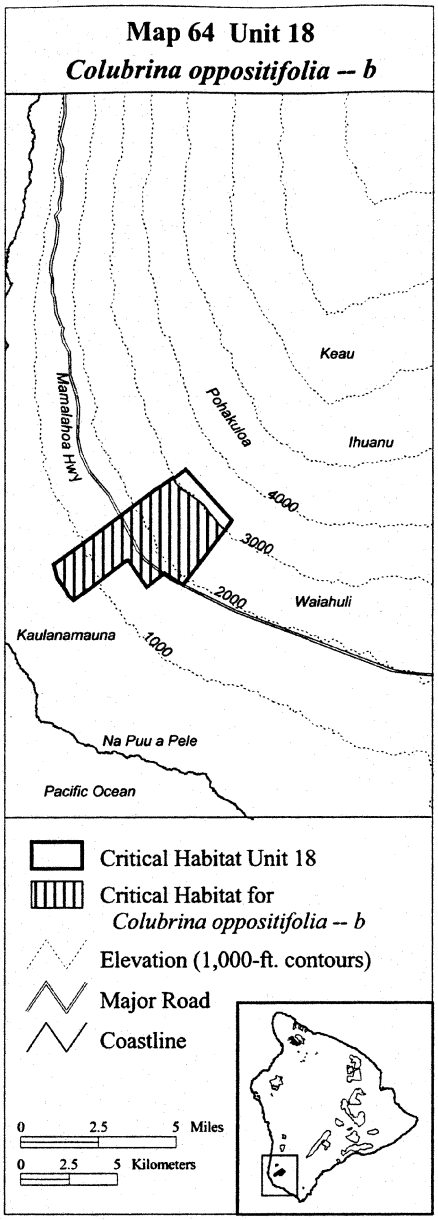
(ii) NOTE: Map 63 follows:



(64) Hawaii 18—*Colubrina oppositifolia*—b (2,717 ha, 6,713 ac)

(i) Unit consists of the following 15 boundary points: Start at 198394, 2113625; 198223, 2113930; 197796, 2114535; 197583, 2115280; 203752, 2119808; 203928, 2119514; 204315, 2119167; 205315, 2118433; 206212, 2117332; 206446, 2117067; 204284, 2114251; 203373, 2114863; 202434, 2114094; 201438, 2115531; 198636, 2113397; return to starting point.

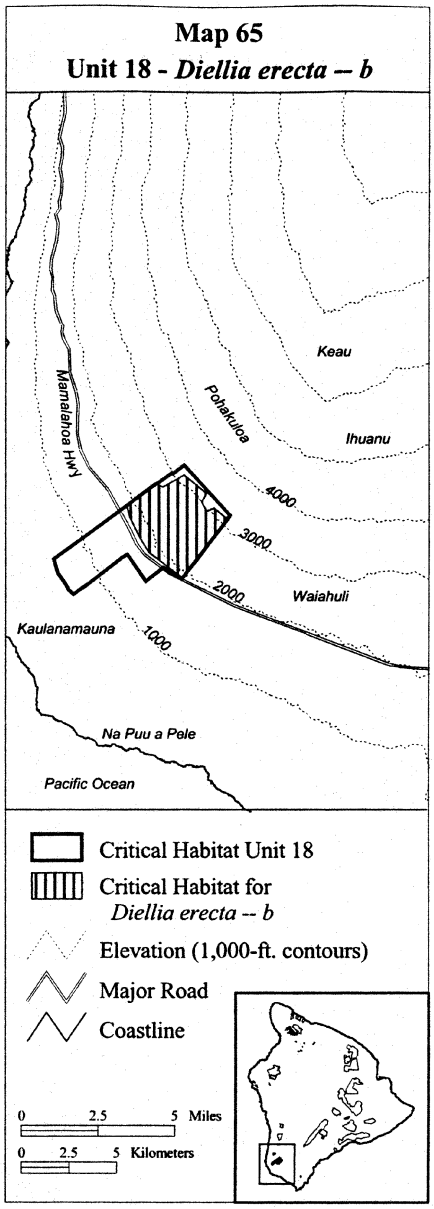
(ii) NOTE: Map 64 follows:



(65) Hawaii 18—*Diellia erecta*—b (1,615 ha, 3,992 ac)

(i) Unit consists of the following 13 boundary points: Start at 202997, 2119281; 203310, 2119053; 204449, 2119707; 205626, 2118736; 205346, 2118306; 205626, 2117783; 205999, 2117970; 206709, 2117375; 204354, 2114272; 202588, 2115599; 202097, 2116400; 201568, 2117511; 201401, 2118078; return to starting point.

(ii) NOTE: Map 65 follows:

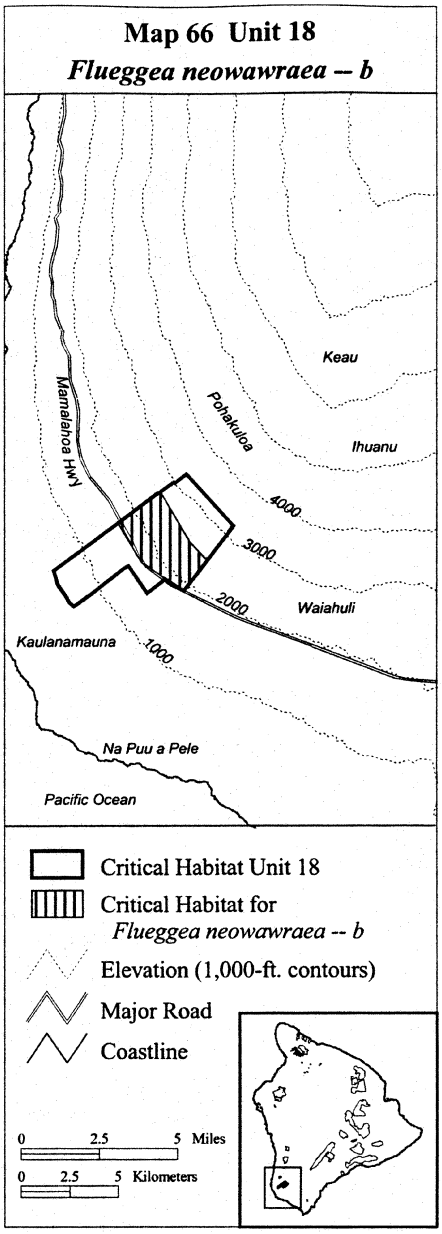


(66) Hawaii 18—*Flueggea neowawraea*—b (1,148 ha, 2,838 ac)

(i) Unit consists of the following six boundary points: Start at 203129, 2119316; 204604, 2116730; 205505, 2115780;

204286, 2114193; 202146, 2115653; 200912, 2117708; return to starting point.

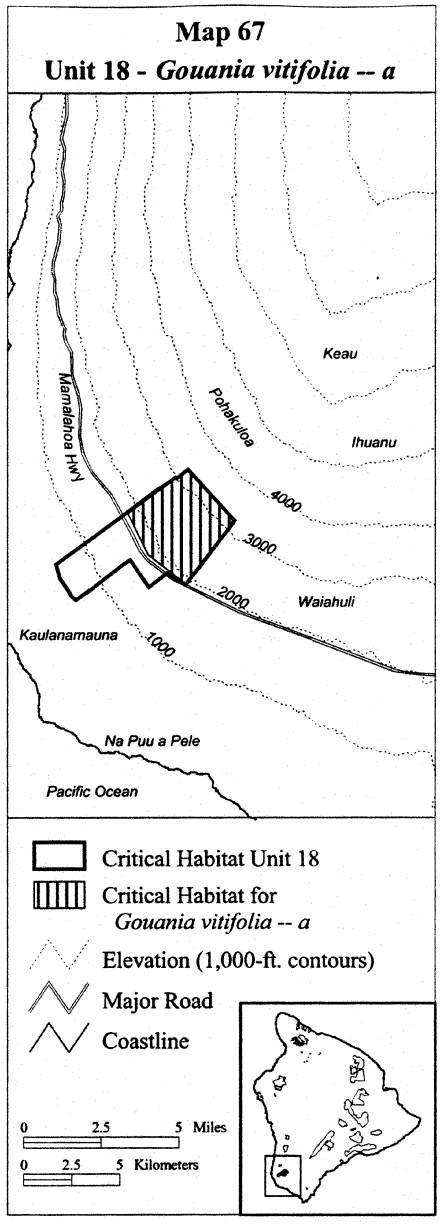
(ii) NOTE: Map 66 follows:



(67) Hawaii 18—*Gouania vitifolia*—a (1,785 ha, 4,412 ac)

(i) Unit consists of the following five boundary points: Start at 204444, 2120239; 206850, 2117574; 204309, 2114257; 202399, 2115771; 201311, 2117954; return to starting point.

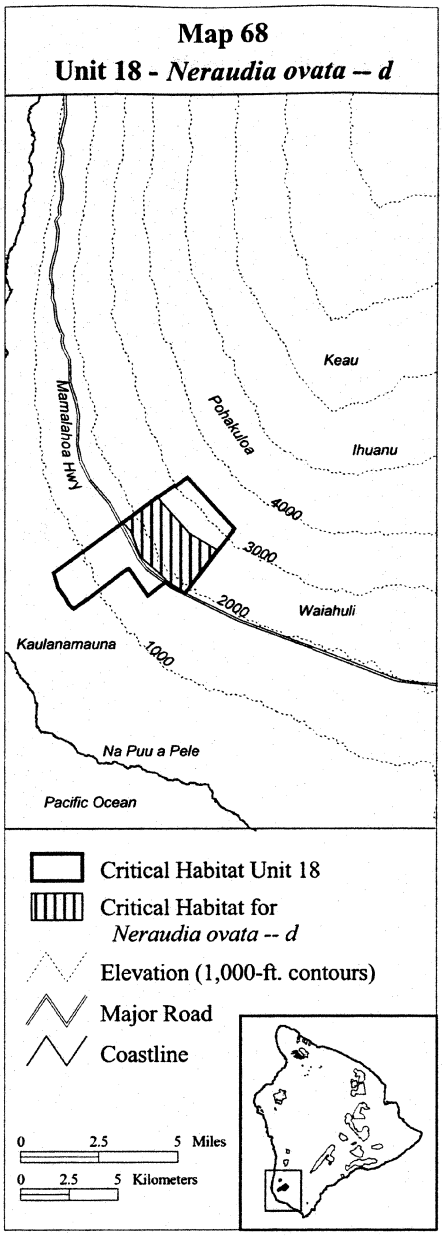
(ii) NOTE: Map 67 follows:



(68) Hawaii 18—*Neraudia ovata*—d (1,134 ha, 2,801 ac)

(i) Unit consists of the following 10 boundary points: Start at 201174, 2117843; 202959, 2119186; 204559, 2117309; 205954, 2116477; 204277, 2114280; 203399, 2114850; 202976, 2115309; 202698, 2115528; 202028, 2116090; 201532, 2117457; return to starting point.

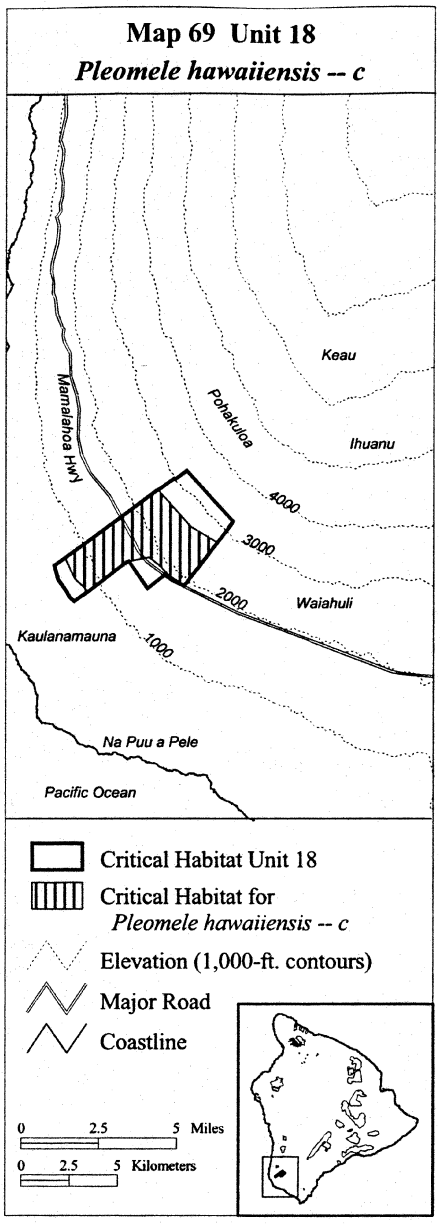
(ii) NOTE: Map 68 follows:



(69) Hawaii 18—*Pleomele hawaiiensis*—c (1,997 ha, 4,934 ac)

(i) Unit consists of the following 14 boundary points: Start at 202966, 2119257; 204672, 2117280; 206034, 2116476; 204325, 2114252; 203522, 2114753; 203049, 2115266; 202477, 2115720; 201375, 2115486; 199227, 2113813; 199190, 2114100; 198653, 2114587; 198378, 2115149; 198141, 2115661; 201104, 2117894; return to starting point.

(ii) NOTE: Map 69 follows:

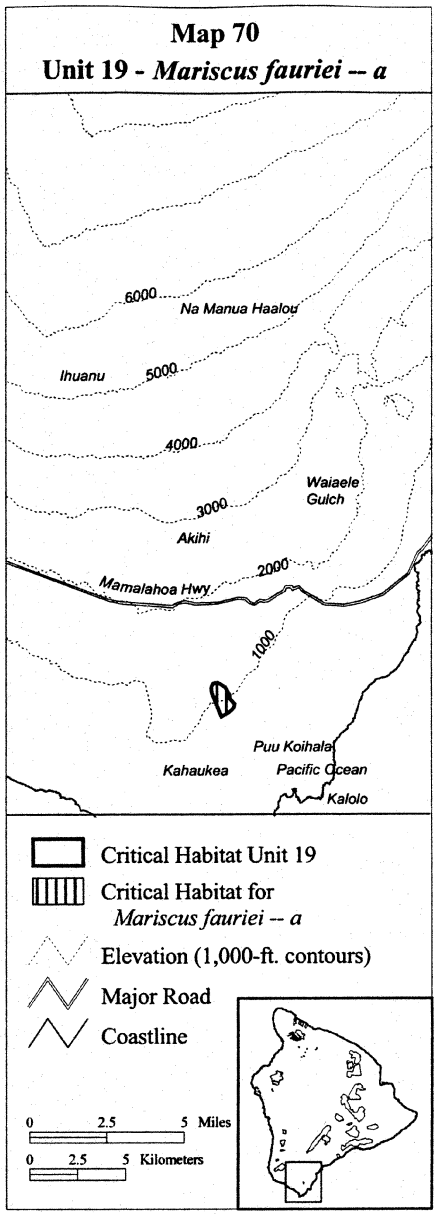


(70) Hawaii 19—*Mariscus fauriei*—a (127 ha, 313 ac)

(i) Unit consists of the following 14 boundary points: Start at 220519, 2105287; 220658, 2105408; 220821, 2105428;

221200, 2105198; 221467, 2104758; 221444, 2104588; 221445, 2104587; 221710, 2104303; 221694, 2104107; 221493, 2103896; 221254, 2103732; 221032, 2103615; 220535, 2104849; 220496, 2105093; return to starting point.

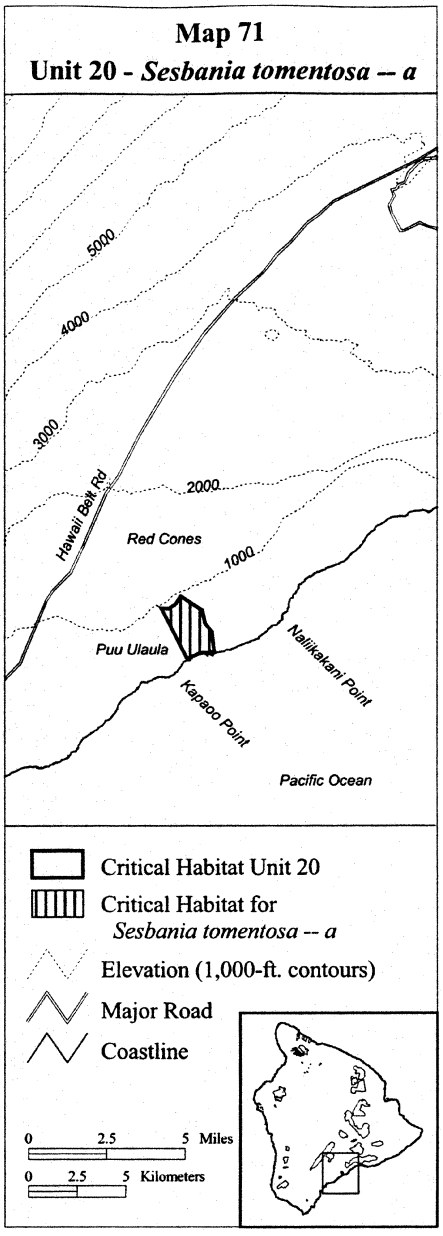
(ii) NOTE: Map 70 follows:



(71) Hawaii 20—*Sesbania tomentosa*—a (486 ha, 1,201 ac)

(i) Unit consists of the following nine boundary points: Coast; 249798, 2124556; 248451, 2124193; 247078, 2126859; 247458, 2126835; 247811, 2127062; 248104, 2127469; 249187, 2126745; 249330, 2126069; 249701, 2125632.

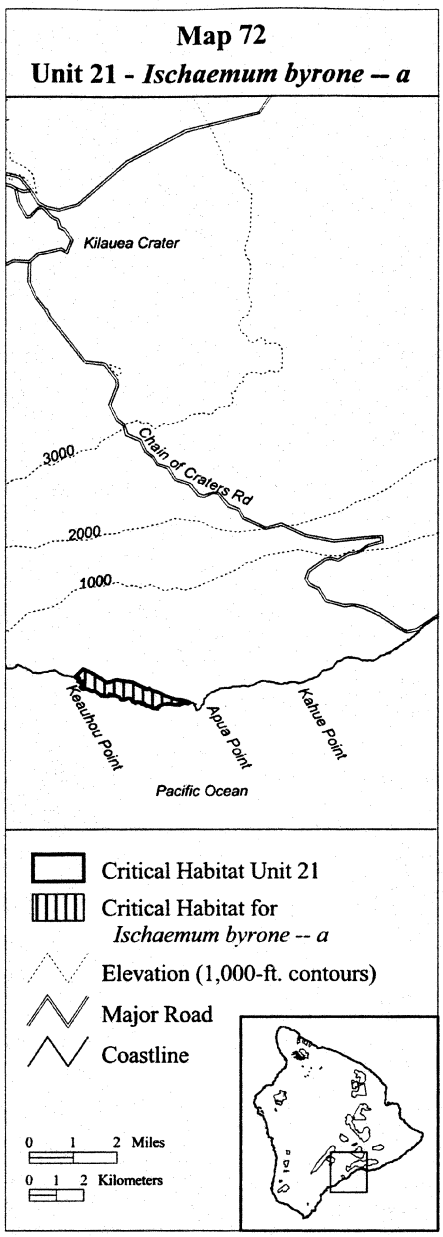
(ii) NOTE: Map 71 follows:



(72) Hawaii 21—*Ischaemum byrone*—a (206 ha, 510 ac)

(i) Unit consists of the following 16 boundary points: Start at 265058, 2131828; 265367, 2132139; 265624, 2132015; 265956, 2131806; 266250, 2131617; 266582, 2131721; 267180, 2131645; 267711, 2131370; 267789, 2131408; 267891, 2131332; 268138, 2131256; 268432, 2131114; 268755, 2131009; 269049, 2130962; 269248, 2130905; 269266, 2130849; return to starting point.

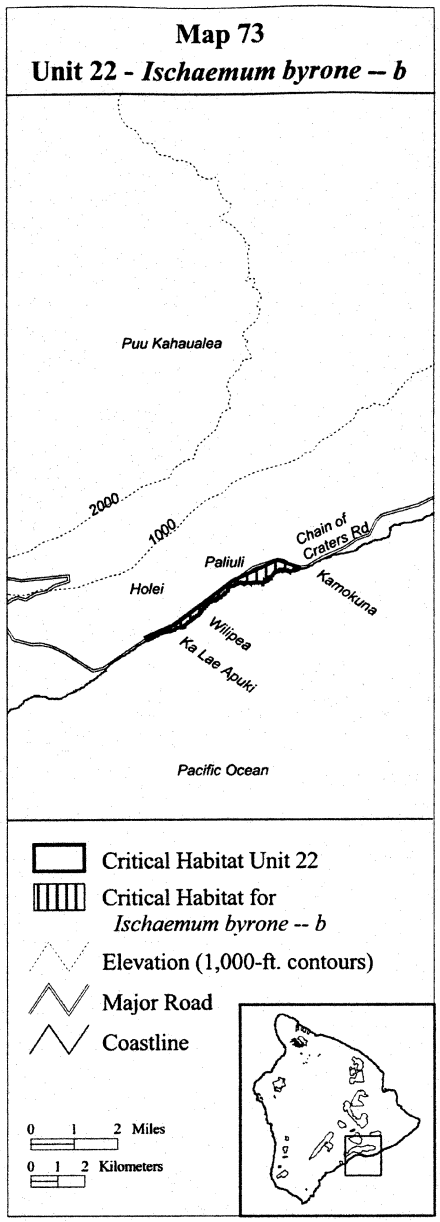
(ii) NOTE: Map 72 follows:



(73) Hawaii 22—*Ischaemum byrone*—b (159 ha, 393 ac)

(i) Unit consists of the following 11 boundary points: Coast; 284893, 2137276; 279221, 2134615; 279221, 2134615; 279175, 2134728; 280175, 2135157; 281315, 2136008; 282395, 2136841; 284061, 2137614; 284803, 2137355; 284850, 2137360; 284874, 2137349.

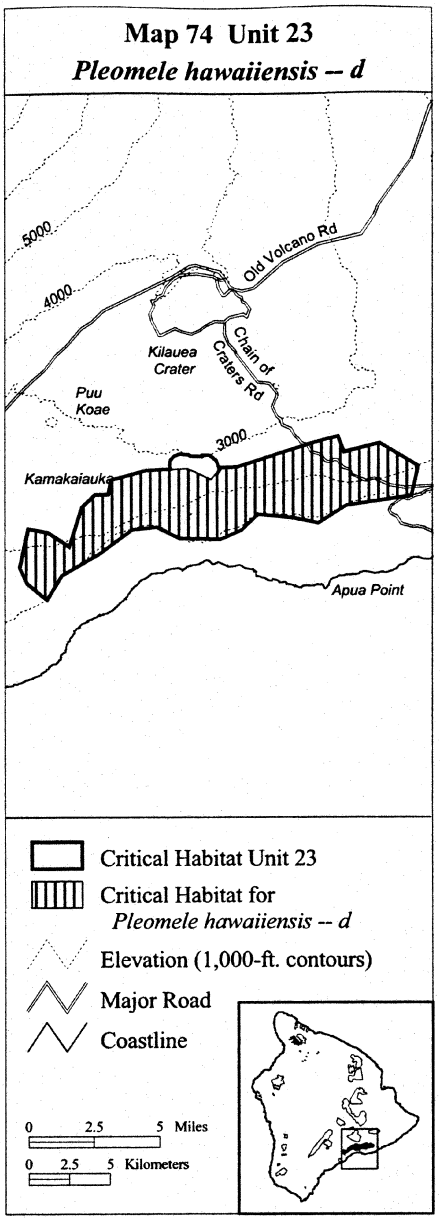
(ii) NOTE: Map 73 follows:



(74) Hawaii 23—*Pleomele hawaiiensis*—d
(8,943 ha, 22,097 ac)

(i) Unit consists of the following 33 boundary points: Start at 274892, 2136370; 270874, 2135790; 269174, 2134697; 267700, 2135019; 265425, 2135256; 264383, 2134214; 263150, 2133692; 260638, 2133740; 259217, 2134451; 257700, 2134309; 255757, 2132839; 253387, 2131465; 252487, 2129948; 251241, 2130960; 250795, 2131956; 251310, 2134361; 252547, 2134120; 253852, 2133261; 254607, 2135700; 255437, 2136482; 256222, 2136490; 256394, 2137383; 258592, 2138001; 261132, 2138090; 262576, 2137383; 263163, 2138161; 264146, 2138195; 268506, 2139617; 269645, 2139914; 270342, 2140091; 270763, 2139124; 272917, 2139676; 275306, 2138240; return to starting point.

(ii) NOTE: Map 74 follows:

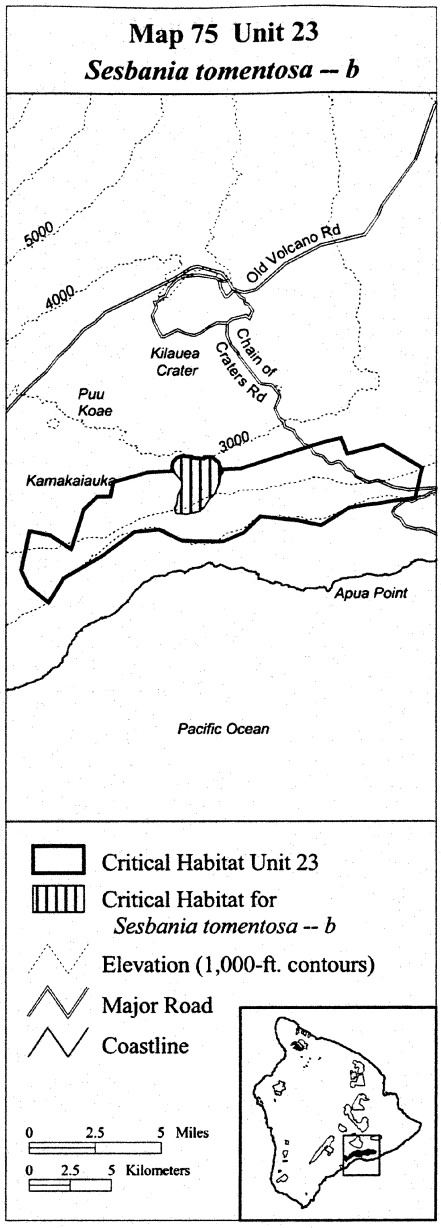


(75) Hawaii 23—*Sesbania tomentosa*—b
(803 ha, 1,984 ac)

(i) Unit consists of the following 27 boundary points: Start at 260007, 2138277; 260064, 2138614; 260288, 2138861; 260620, 2139007; 260945, 2138979; 261187,

2138985; 261288, 2138856; 261541, 2138867; 261945, 2138822; 262013, 2138945; 262440, 2138951; 262861, 2138592; 263063, 2138125; 262940, 2137446; 262614, 2136665; 262294, 2136266; 262007, 2135817; 261704, 2135564; 260951, 2135401; 260255, 2135424; 260176, 2135727; 260316, 2136075; 260361, 2136524; 260608, 2137002; 260580, 2137440; 260153, 2137906; 260058, 2138064; return to starting point.

(ii) NOTE: Map 75 follows:

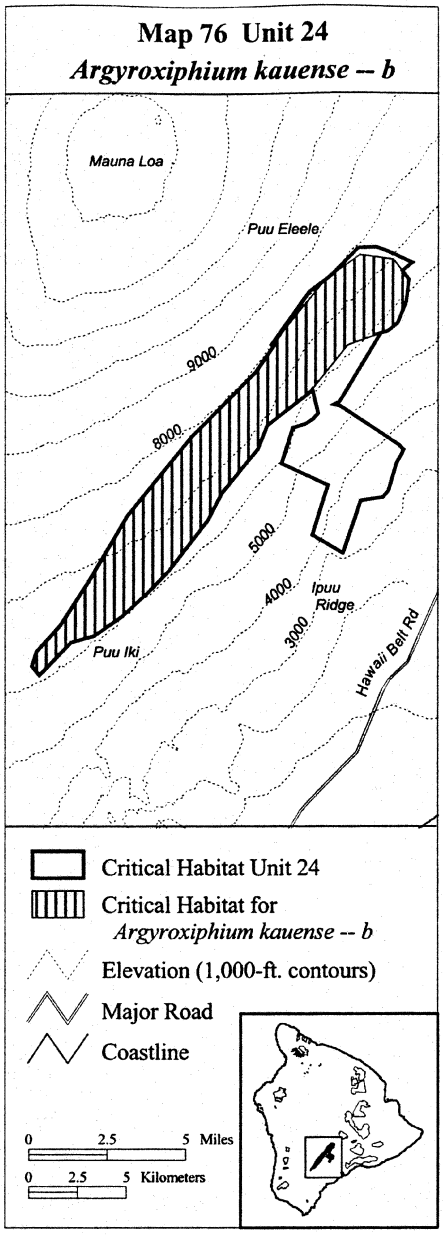


(76) Hawaii 24—*Argyroxiphium kauense*—b (7,795 ha, 19,261 ac)

(i) Unit consists of the following 27 boundary points: Start at 241932, 2146263; 241417, 2145847; 239409, 2145112;

237401, 2142639; 235247, 2140949; 234781, 2139725; 232871, 2137399; 232161, 2136003; 230227, 2133432; 229223, 2132403; 227778, 2131032; 226357, 2130052; 225133, 2129685; 223541, 2127995; 223150, 2128461; 223394, 2129220; 224594, 2130542; 226039, 2132819; 227998, 2136174; 231377, 2140386; 234659, 2143741; 236177, 2145945; 238210, 2148467; 239997, 2149789; 241711, 2149544; 242495, 2148491; 242372, 2147341; return to starting point.

(ii) NOTE: Map 76 follows:

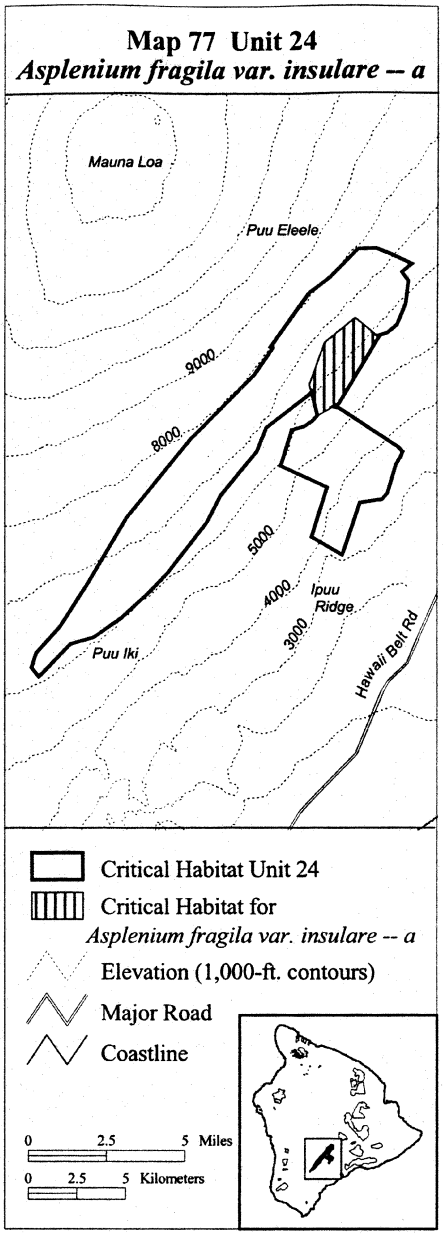


(77) Hawaii 24—*Asplenium fragile* var. *insulare*—a (907 ha, 2,241 ac)

(i) Unit consists of the following six boundary points: Start at 239781, 2146615; 241003, 2145626; 238959, 2142183;

237893, 2141565; 237452, 2143181; 238209, 2145335; return to starting point.

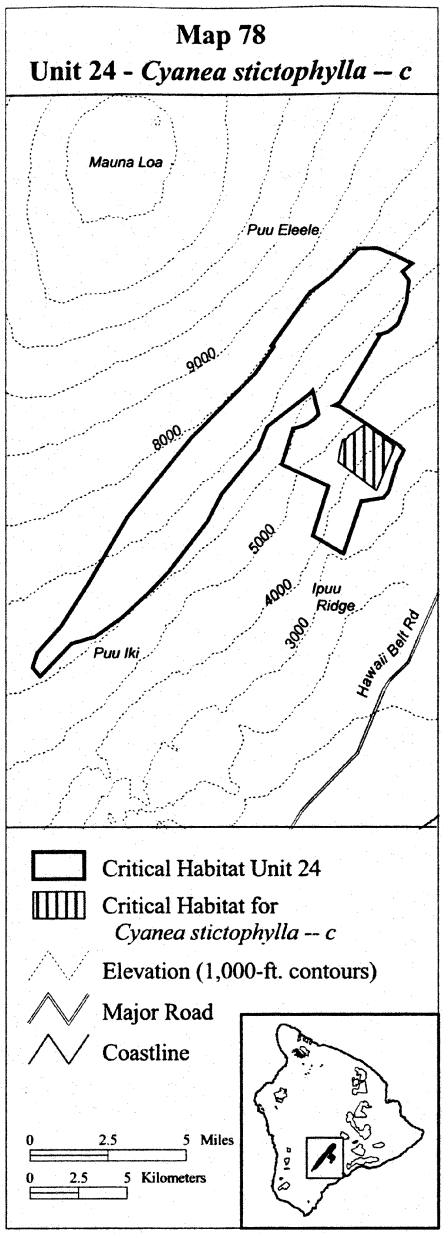
(ii) NOTE: Map 77 follows:



(78) Hawaii 24—*Cyanea stictophylla*—c (584 ha, 1,443 ac)

(i) Unit consists of the following nine boundary points: Start at 240250, 2141066; 241783, 2139920; 240835, 2137607; 238868, 2139097; 238947, 2139692; 239116, 2140248; 239332, 2140329; 239455, 2140496; 239602, 2140570; return to starting point.

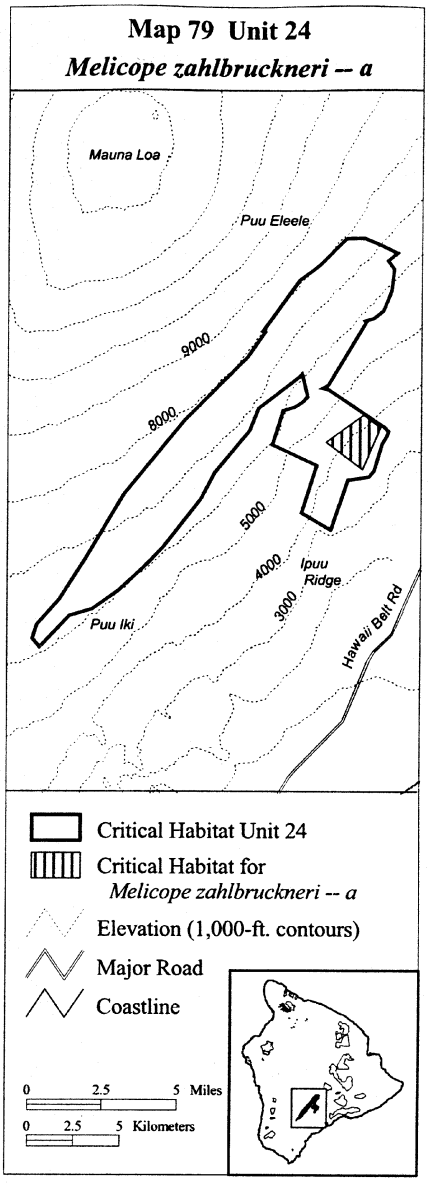
(ii) NOTE: Map 78 follows:



(79) Hawaii 24—*Melicope zahlbruckneri*—a (434 ha, 1,072 ac)

(i) Unit consists of the following four boundary points: Start at 238867, 2139105; 240894, 2140601; 241788, 2139910; 240819, 2137611; return to starting point.

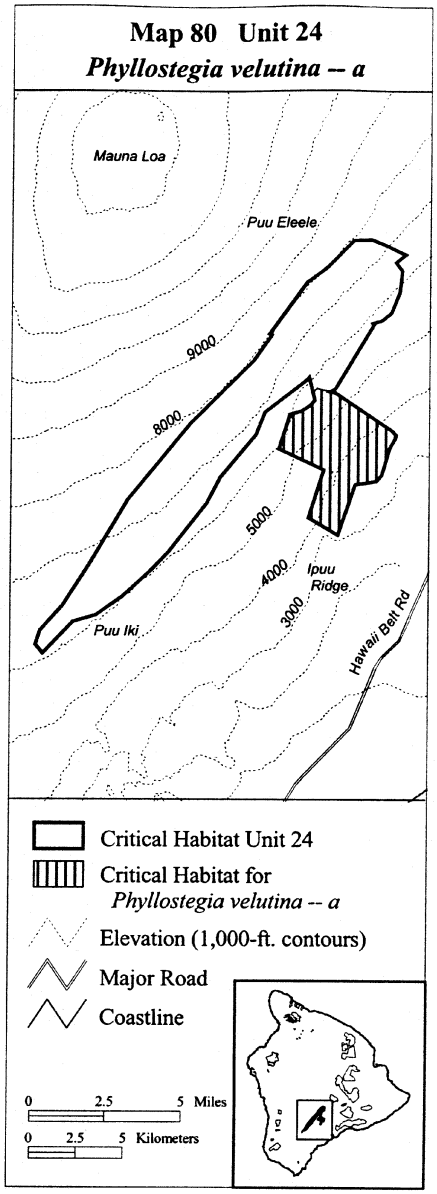
(ii) NOTE: Map 79 follows:



(80) Hawaii 24—*Phyllostegia velutina*—a (2,466 ha, 6,093 ac)

(i) Unit consists of the following 18 boundary points: Start at 238962, 2141970; 242007, 2139925; 242207, 2139714; 242118, 2139436; 241893, 2139030; 241440, 2137533; 241162, 2137224; 240062, 2137024; 239123, 2134346; 237550, 2135268; 238350, 2137847; 235994, 2138947; 236552, 2140823; 237172, 2141003; 237594, 2141281; 237850, 2141570; 237828, 2142070; 238005, 2142204; return to starting point.

(ii) NOTE: Map 80 follows:

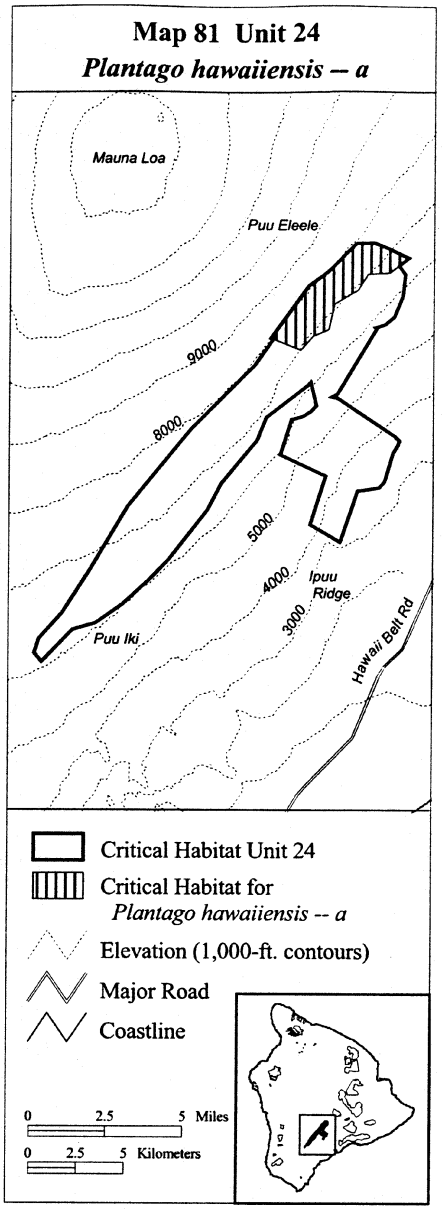


(81) Hawaii 24—*Plantago hawaiensis*—a (1,348 ha, 3,330 ac)

(i) Unit consists of the following 14 boundary points: Start at 239891, 2150141; 240843, 2150153; 241675, 2149824; 242668, 2149348; 241709, 2148593; 240533, 2148496; 240027, 2147666; 238765, 2146944;

238485, 2145606; 237676, 2145240; 237021, 2144491; 235459, 2145119; 237410, 2147869; 238480, 2148664; return to starting point.

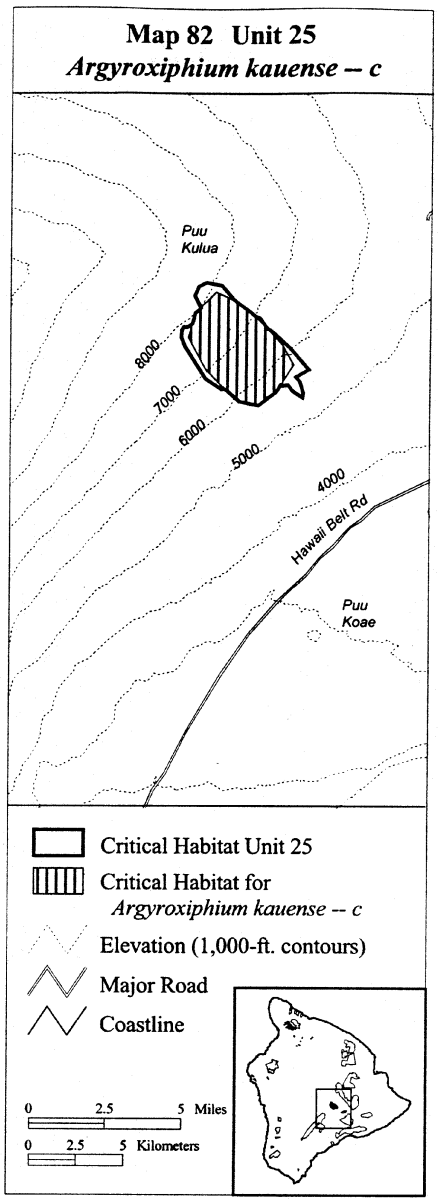
(ii) NOTE: Map 81 follows:



(82) Hawaii 25—*Argyroxiphium kauense*—c (2,006 ha, 4,957 ac)

(i) Unit consists of the following 13 boundary points: Start at 250289, 2157327; 251003, 2156578; 251595, 2155516; 250654, 2154088; 249731, 2153374; 248704, 2153565; 247907, 2154271; 246893, 2155307; 245987, 2156978; 246353, 2158267; 247468, 2159347; 248478, 2158877; 249279, 2158302; return to starting point.

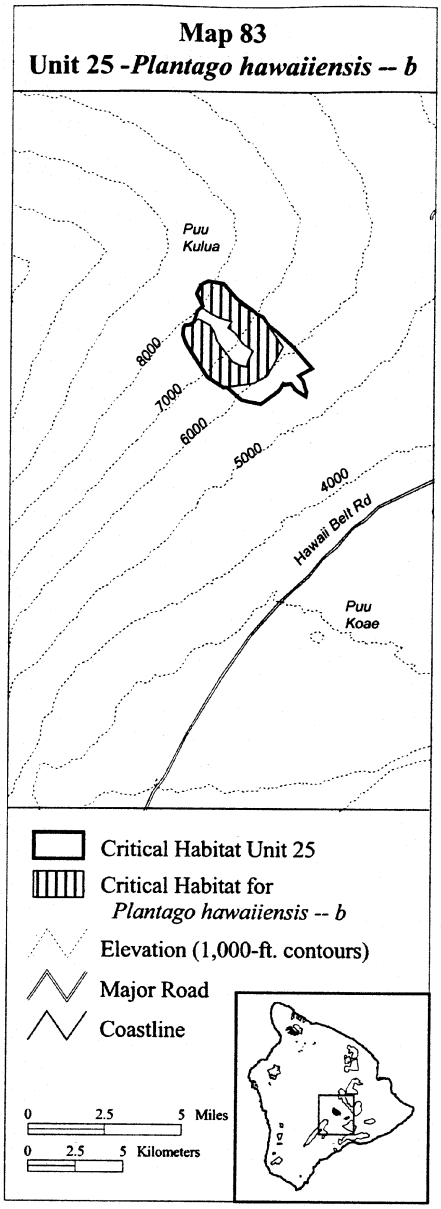
(ii) NOTE: Map 82 follows:



(83) Hawaii 25—*Plantago hawaiensis*—b (1,522 ha, 3,762 ac)

(i) Unit consists of the following 35 boundary points: Start at 250884, 2156394; 250042, 2154844; 249371, 2154454; 247769, 2154222; 246915, 2154794; 245791, 2156465; 245586, 2156984; 245636, 2157360; 245710, 2157517; 245929, 2157517; 246442, 2157846; 247040, 2157529; 247235, 2157212; 247369, 2156711; 247784, 2156175; 248224, 2155589; 248639, 2155406; 248980, 2155320; 249005, 2155564; 249285, 2156187; 248773, 2156528; 248358, 2157090; 247967, 2157383; 248175, 2157737; 247528, 2157895; 246991, 2158164; 246649, 2158418; 246674, 2158444; 246320, 2159164; 246527, 2159640; 246918, 2159860; 247369, 2159775; 247723, 2159701; 248761, 2158530; 249786, 2157944; return to starting point.

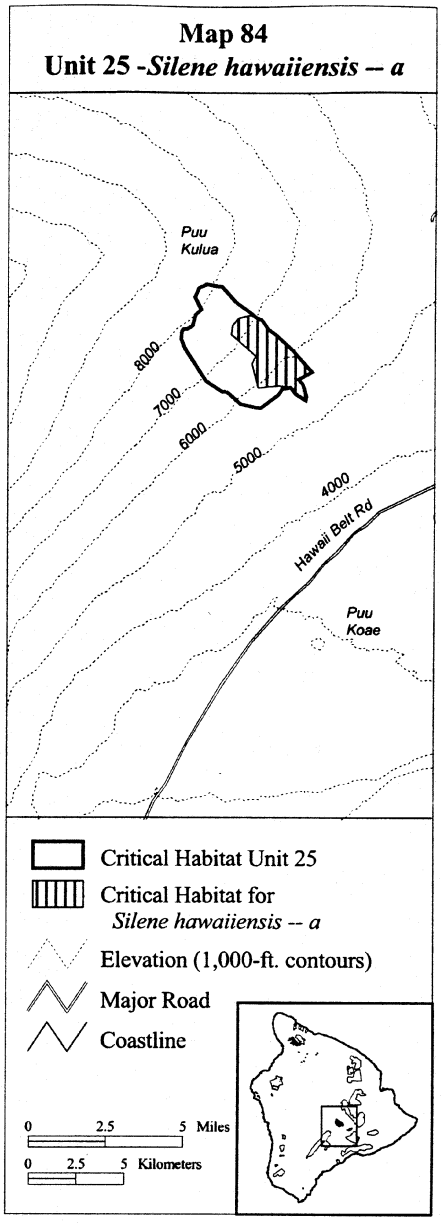
(ii) NOTE: Map 83 follows:



(84) Hawaii 25—*Silene hawaiiensis*—a (854 ha, 2,110 ac)

(i) Unit consists of the following 20 boundary points: Start at 249605, 2154443; 249282, 2155670; 249489, 2156083; 248205, 2157211; 248257, 2157694; 248587, 2158073; 249179, 2158214; 249790, 2157993; 250127, 2157482; 250559, 2157202; 251403, 2156390; 252371, 2155266; 251701, 2154870; 251902, 2154637; 252099, 2154017; 252071, 2153773; 251517, 2154149; 251301, 2154449; 250993, 2154406; 250728, 2154562; return to starting point.

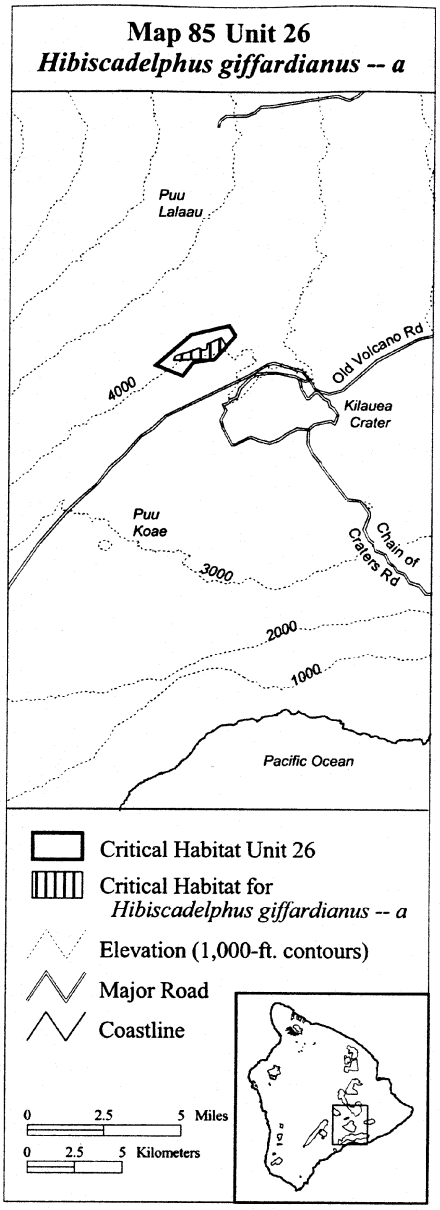
(ii) NOTE: Map 84 follows:



(85) Hawaii 26—*Hibiscadelphus giffardianus*—a (149 ha, 367 ac)

(i) Unit consists of the following 18 boundary points: Start at 256349, 2151035; 256516, 2151138; 256717, 2151196; 257064, 2151279; 257624, 2151506; 257795, 2151400; 258009, 2151416; 258048, 2151718; 258777, 2152045; 258966, 2151770; 259051, 2151582; 258433, 2150898; 258430, 2150898; 257945, 2150909; 257790, 2150915; 257034, 2150898; 256769, 2150857; 256333, 2150857; return to starting point.

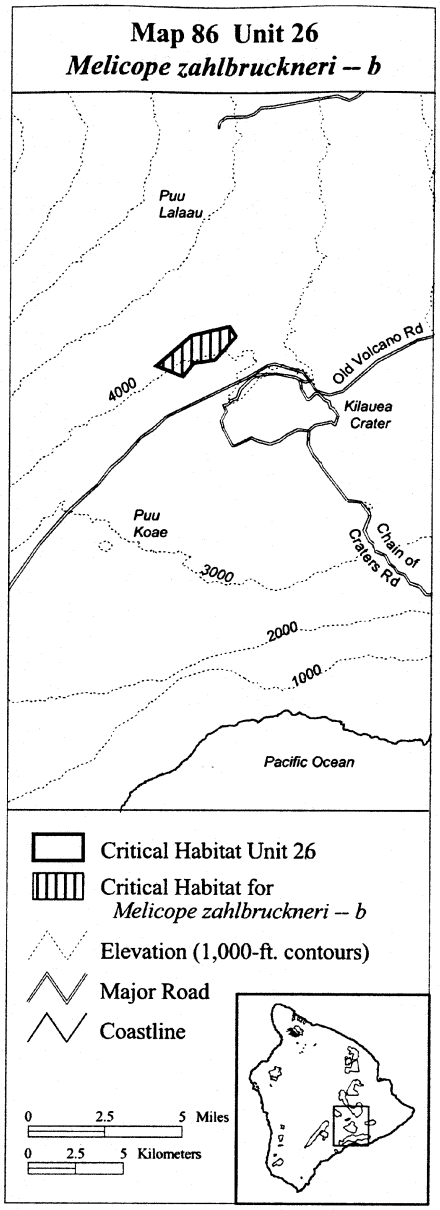
(ii) NOTE: Map 85 follows:



(86) Hawaii 26—*Melicope zahlbruckneri*—b (495 ha, 1,224 ac)

(i) Unit consists of the following seven boundary points: Start at 259520, 2152124; 258420, 2150913; 257324, 2150755; 256781, 2150023; 255379, 2150583; 257220, 2152206; 259198, 2152680; return to starting point.

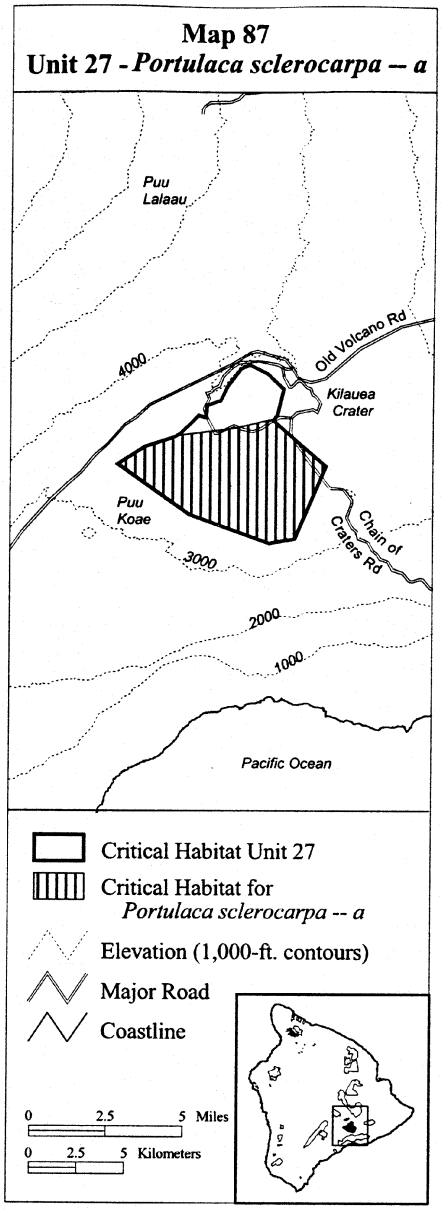
(ii) NOTE: Map 86 follows:



(87) Hawaii 27—*Portulaca sclerocarpa*—a (4,390 ha, 10,848 ac)

(i) Unit consists of the following nine boundary points: Start at 263596, 2140748; 262234, 2140517; 258055, 2142041; 254269, 2144742; 255668, 2145679; 257593, 2146289; 260387, 2146659; 262395, 2147120; 265212, 2144650; return to starting point.

(ii) NOTE: Map 87 follows:

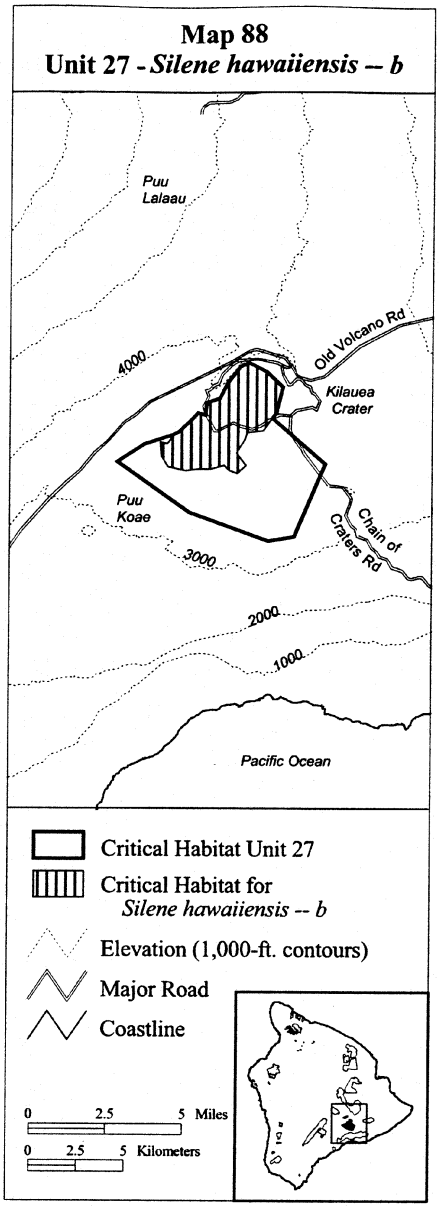


(88) Hawaii 27—*Silene hawaiiensis*—b (1,942 ha, 4,798 ac)

(i) Unit consists of the following 28 boundary points: Start at 261207, 2150002; 262152, 2149529; 262966, 2148732; 262640, 2147357; 261953, 2146398; 261102,

2146308; 260976, 2145910; 260541, 2145204; 261048, 2144534; 260596, 2144100; 260125, 2144299; 259890, 2144552; 259220, 2144335; 258515, 2144335; 257845, 2144263; 256922, 2144462; 256560, 2145059; 256506, 2145801; 256886, 2145710; 257239, 2146201; 257501, 2146344; 258279, 2147086; 258496, 2147337; 258877, 2147212; 258949, 2147864; 259637, 2148117; 260035, 2148895; 260704, 2149800; return to starting point.

(ii) NOTE: Map 88 follows:

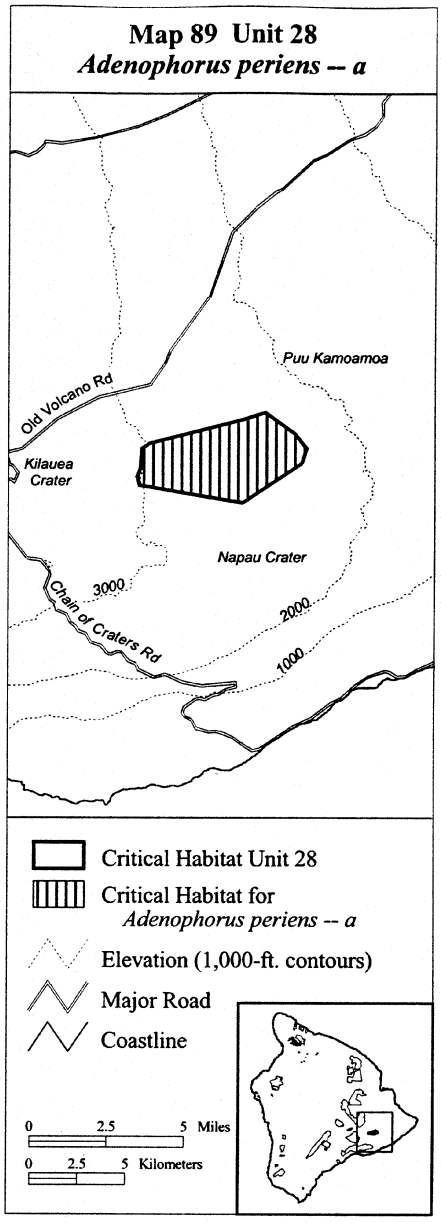


(89) Hawaii 28—*Adenophorus periens*—a (2,733 ha, 6,754 ac)

(i) Unit consists of the following 11 boundary points: Start at 279712, 2148510; 276648, 2146439; 271250, 2147346; 271140, 2147797; 271319, 2148257; 271361,

2149267; 271770, 2149568; 276751, 2150845; 277839, 2151215; 279362, 2150061; 279952, 2149315; return to starting point.

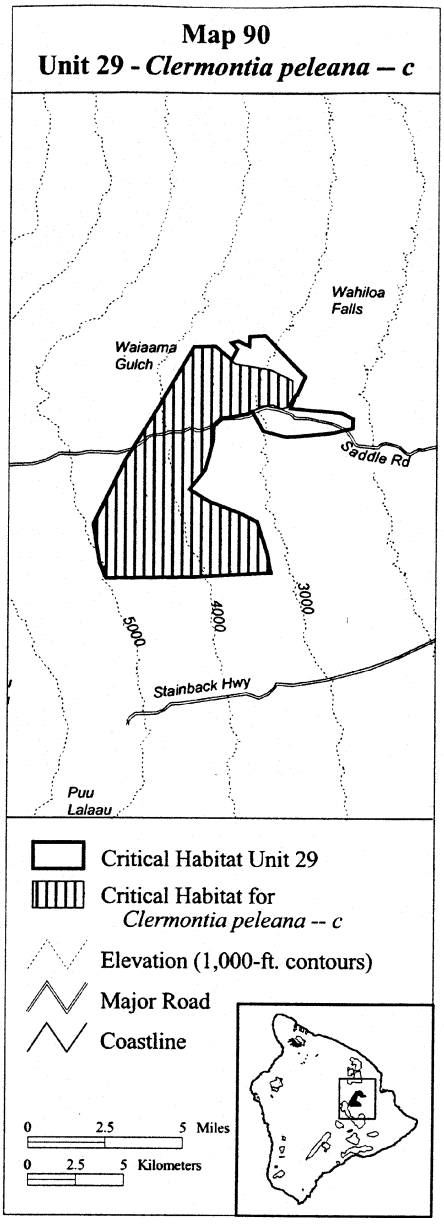
(ii) NOTE: Map 89 follows:



(90) Hawaii 29—*Clermontia peleana*—c (6,845 ha, 16,914 ac)

(i) Unit consists of the following 29 boundary points: Start at 256704, 2173629; 258341, 2177012; 260142, 2179904; 261881, 2182923; 262993, 2182963; 264053, 2182050; 265872, 2181759; 266999, 2181195; 267018, 2180286; 266781, 2179777; 266454, 2179686; 265993, 2179903; 265443, 2179855; 264701, 2179425; 264030, 2179281; 263288, 2179209; 262953, 2178826; 262905, 2178084; 262761, 2177461; 262498, 2176480; 261708, 2175450; 262666, 2174828; 264380, 2174192; 265235, 2173756; 265744, 2172137; 265944, 2171082; 261670, 2170827; 257377, 2170773; 257013, 2171646; return to starting point.

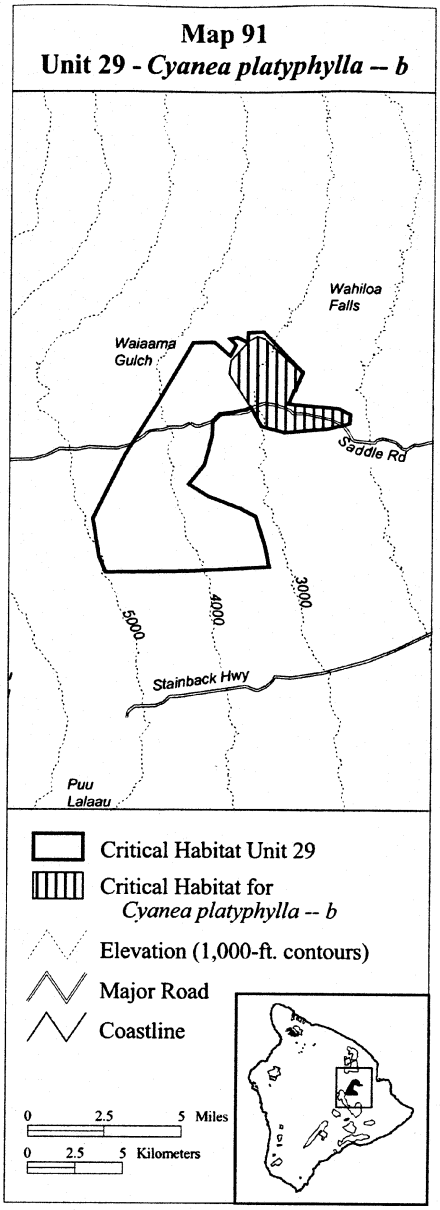
(ii) NOTE: Map 90 follows:



(91) Hawaii 29—*Cyanea platyphylla*—b (1,524 ha, 3,767 ac)

(i) Unit consists of the following 15 boundary points: Start at 270137, 2179182; 270117, 2178705; 269049, 2178426; 266707, 2178218; 265505, 2178550; 264852, 2179669; 264237, 2180565; 263774, 2181296; 263878, 2181980; 264821, 2183016; 265256, 2183296; 265629, 2183151; 267567, 2181379; 266904, 2179742; 269567, 2179503; return to starting point.

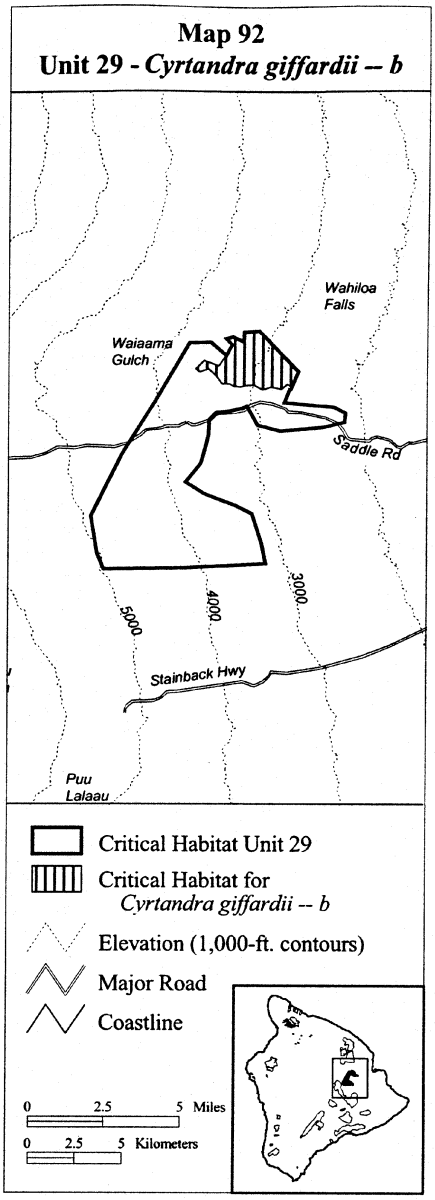
(ii) NOTE: Map 91 follows:



(92) Hawaii 29—*Cyrtandra giffardii*—b (938 ha, 2,319 ac)

(i) Unit consists of the following 28 boundary points: Start at 262416, 2181378; 262234, 2181545; 262682, 2181990; 263440, 2181695; 263960, 2182446; 264133, 2182822; 263843, 2183142; 264177, 2183241; 264755, 2182952; 264784, 2183472; 265594, 2183524; 267656, 2181395; 267302, 2180559; 267067, 2180712; 266763, 2180438; 266546, 2180496; 266214, 2180553; 265752, 2180423; 265275, 2180683; 264856, 2180640; 264596, 2180553; 264191, 2180611; 264018, 2180727; 263642, 2180727; 263367, 2181102; 263122, 2181334; 262891, 2181536; 262486, 2181377; return to starting point.

(ii) NOTE: Map 92 follows:

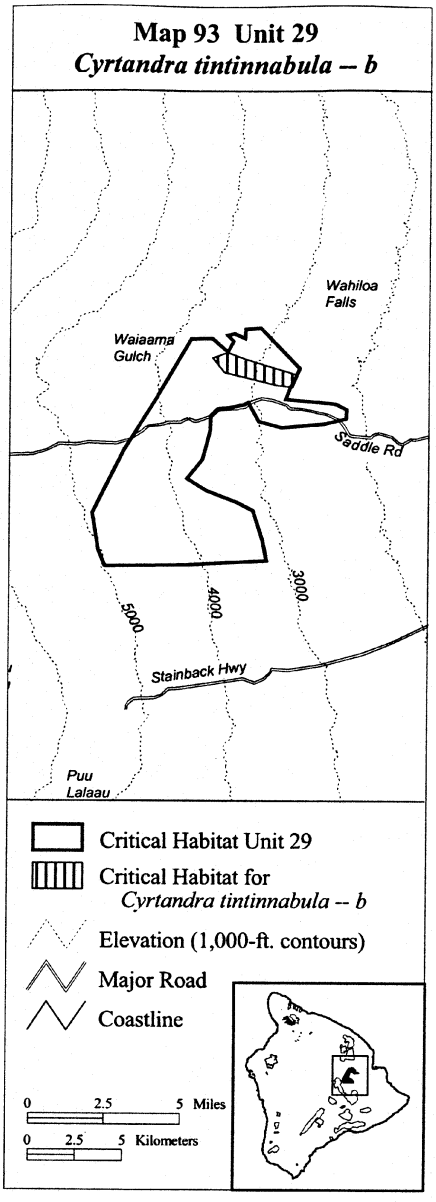


(93) Hawaii 29—*Cyrtandra tintinnabula*—b (378 ha, 934 ac)

(i) Unit consists of the following eight boundary points: Start at 267234, 2180396; 266451, 2180468; 263662, 2181160; 263032, 2181914; 263831, 2182224; 264610,

2181934; 265290, 2181716; 267462, 2181056; return to starting point.

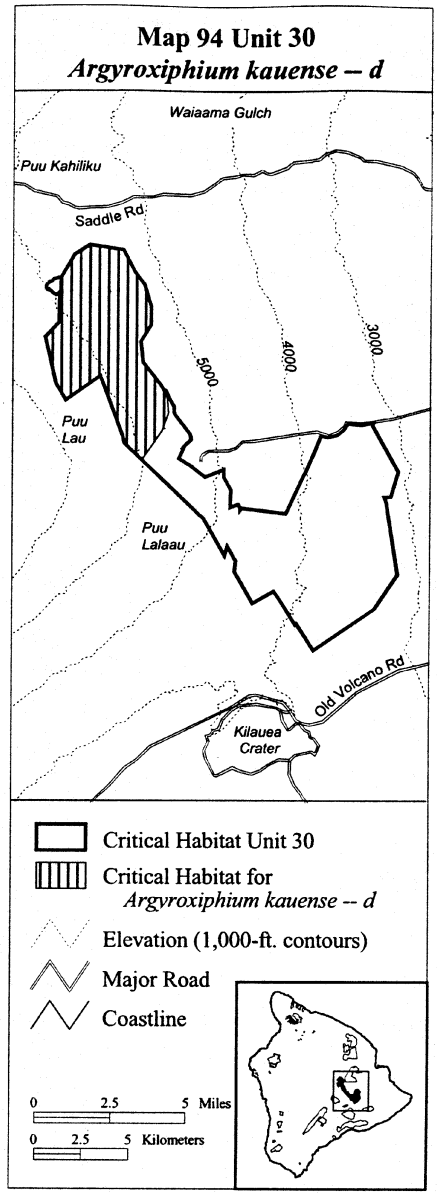
(ii) NOTE: Map 93 follows:



(94) Hawaii 30—*Argyroxiphium kauense*—d (4,281 ha, 10,578 ac)

(i) Unit consists of the following 35 boundary points: Start at 251376, 2166456; 250829, 2167375; 250254, 2169847; 250992, 2170628; 251020, 2172877; 251769, 2174236; 252605, 2174758; 254398, 2174497; 255008, 2173313; 255513, 2172668; 255879, 2171502; 255879, 2170492; 255339, 2169604; 255451, 2168509; 256441, 2167275; 256753, 2166610; 256810, 2165770; 256453, 2164780; 255495, 2163352; 255306, 2163361; 254541, 2164098; 254498, 2164137; 254481, 2164182; 254455, 2164255; 254449, 2164271; 254374, 2164589; 254004, 2165599; 253287, 2167525; 253238, 2167661; 253194, 2167785; 253194, 2167786; 253193, 2167786; 253192, 2167786; 253191, 2167786; 253146, 2167752; return to starting point.

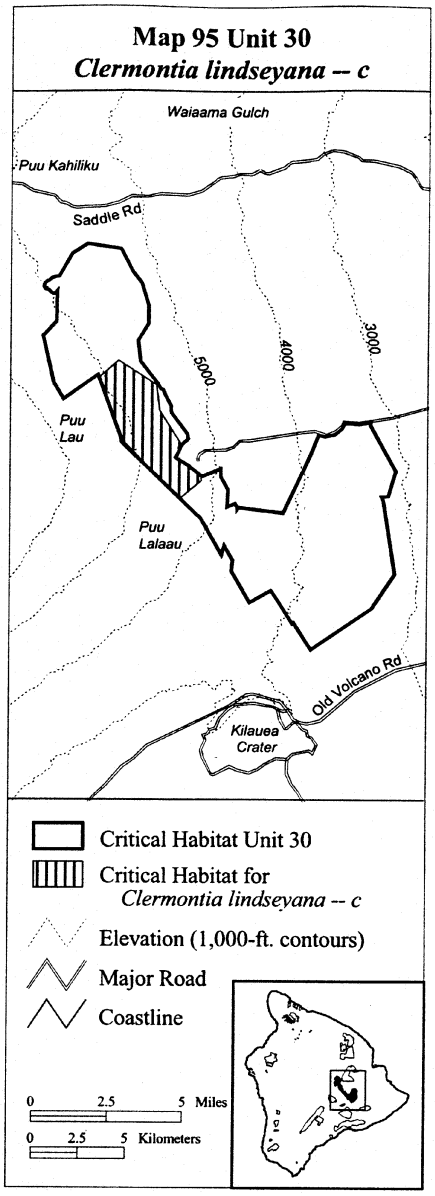
(ii) NOTE: Map 94 follows:



(95) Hawaii 30—*Clermontia lindseyana*—c (1,634 ha, 4,037 ac)

(i) Unit consists of the following 13 boundary points: Start at 254584, 2164181; 253305, 2167650; 254302, 2168554; 256320, 2167251; 256487, 2165898; 257687, 2164037; 257302, 2163331; 258133, 2162854; 258725, 2162386; 258756, 2162085; 257655, 2161172; 256263, 2162480; 255102, 2163686; return to starting point.

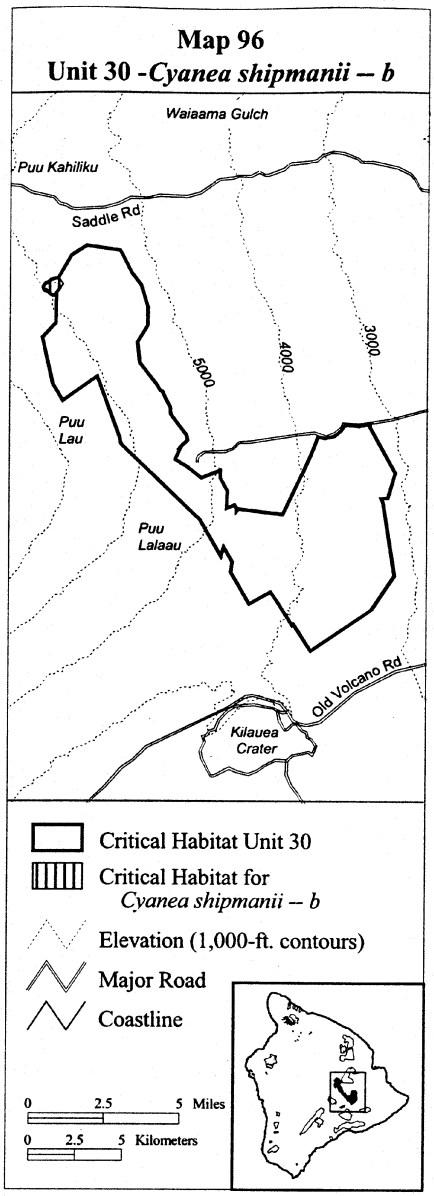
(ii) NOTE: Map 95 follows:



(96) Hawaii 30—*Cyanea shipmanii*—b (62 ha, 152 ac)

(i) Unit consists of the following 17 boundary points: Start at 250385, 2172716; 250588, 2172812; 250726, 2172919; 250993, 2173015; 251162, 2173040; 251356, 2172692; 251292, 2172620; 251217, 2172460; 251121, 2172321; 251014, 2172236; 250918, 2172140; 250790, 2172086; 250673, 2172161; 250545, 2172300; 250385, 2172332; 250300, 2172449; 250310, 2172535; return to starting point.

(ii) NOTE: Map 96 follows:

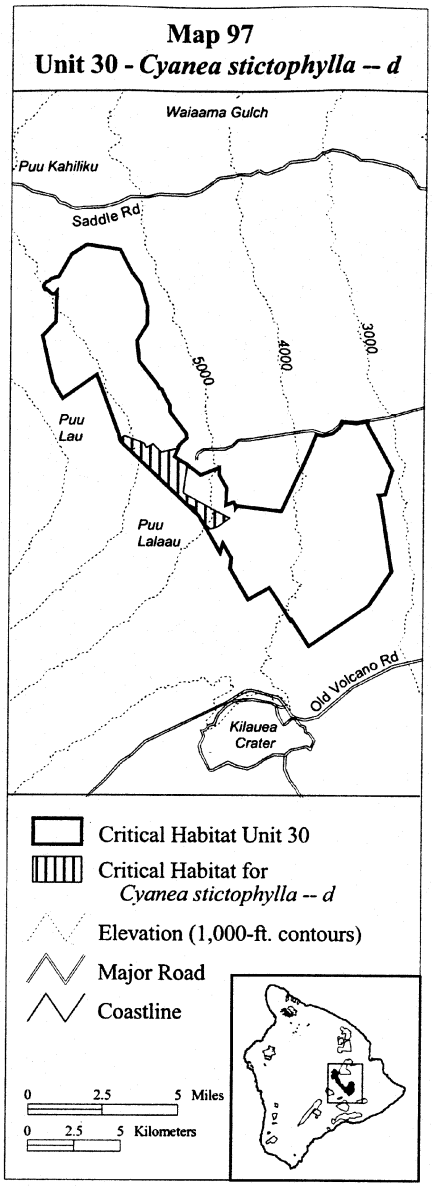


(97) Hawaii 30—*Cyanea shipmanii*—c (825 ha, 2,038 ac)

(i) Unit consists of the following 17 boundary points: Start at 254374, 2164589; 254004, 2165599; 253236, 2167756; 253128, 2168010; 254193, 2168432; 254246,

2168296; 254470, 2167400; 254649, 2167176; 255481, 2167289; 256666, 2167013; 256799, 2166728; 257113, 2166101; 257113, 2164936; 256396, 2164757; 255321, 2165116; 254559, 2165295; 254649, 2164623; return to starting point.

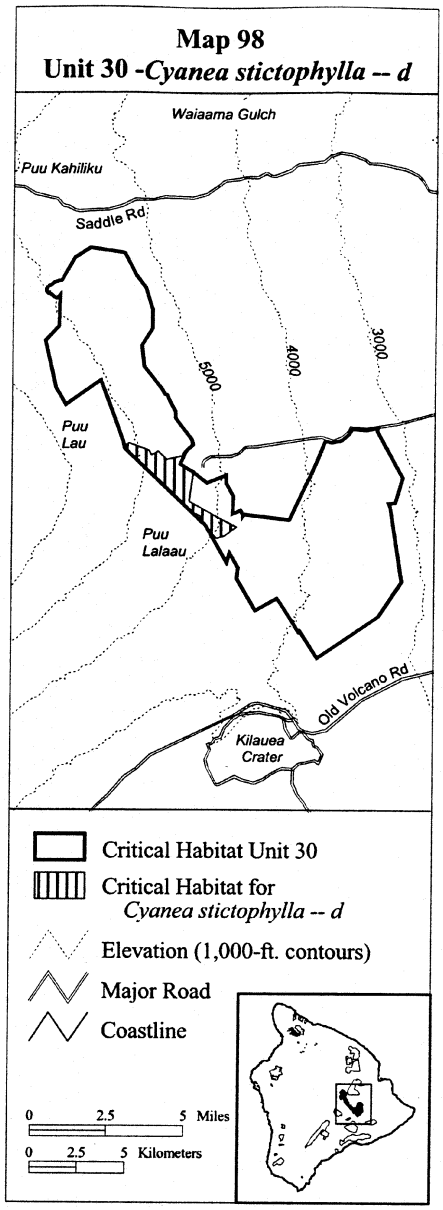
(ii) NOTE: Map 97 follows:



(98) Hawaii 30—*Cyanea stictophylla*—d (623 ha, 1,539 ac)

(i) Unit consists of the following 27 boundary points: Start at 254498, 2164341; 254727, 2164444; 255743, 2164078; 255868, 2163816; 256222, 2164021; 256656, 2163576; 257560, 2163785; 257352, 2163331; 258066, 2162902; 257844, 2161395; 257900, 2161317; 259249, 2160573; 260356, 2159979; 259695, 2159517; 259319, 2159380; 258898, 2159773; 258849, 2159861; 258810, 2159929; 258784, 2159981; 258755, 2160036; 258715, 2160077; 258688, 2160104; 258437, 2160584; 258243, 2160676; 258167, 2160673; 256128, 2162630; 254574, 2164116; return to starting point.

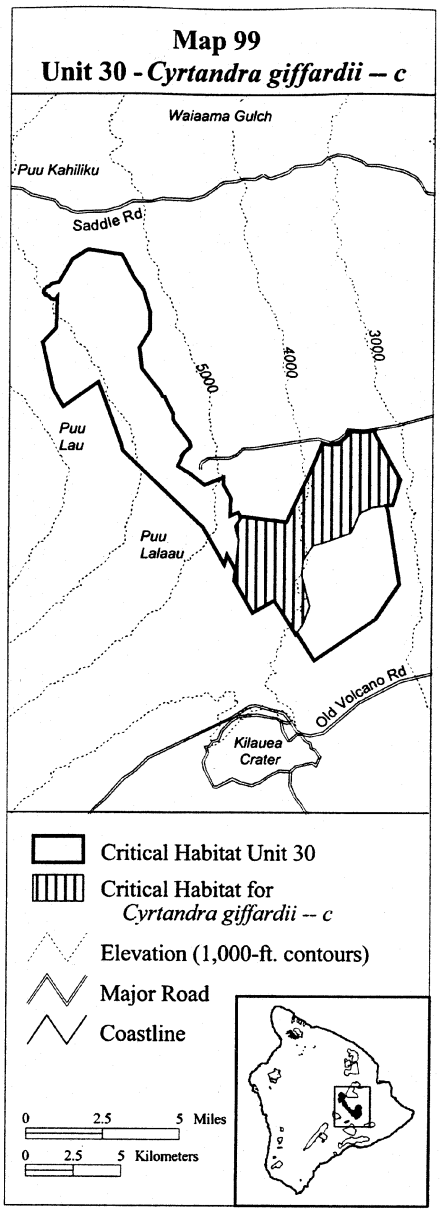
(ii) NOTE: Map 98 follows:



(99) Hawaii 30—*Cyrtandra giffardii*—c (3,872 ha, 9,567 ac)

(i) Unit consists of the following 28 boundary points: Start at 266492, 2165136; 267184, 2165097; 267638, 2165195; 269069, 2162612; 268669, 2161281; 267615, 2161161; 266924, 2160825; 266490, 2159798; 265048, 2159265; 264495, 2159127; 264001, 2158357; 263902, 2157567; 264357, 2155927; 263981, 2154960; 263634, 2154426; 262793, 2155728; 262477, 2156217; 261337, 2155564; 260360, 2157263; 260584, 2159423; 260367, 2160114; 260734, 2160659; 263088, 2160361; 264090, 2162500; 264176, 2162638; 264221, 2162790; 264951, 2164464; 265860, 2164445; return to starting point.

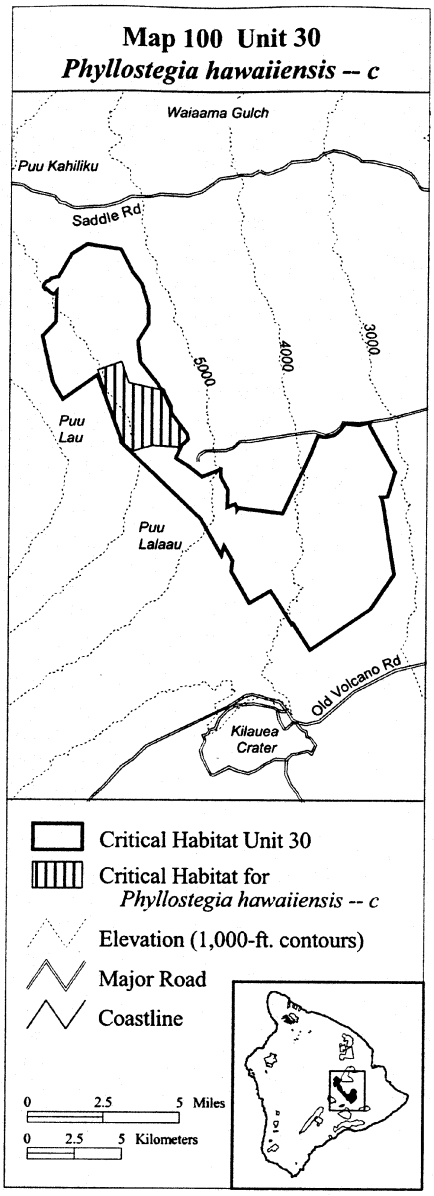
(ii) NOTE: Map 99 follows:



(100) Hawaii 30—*Phyllostegia racemosa*—c (267 ha, 659 ac)

(i) Unit consists of the following 10 boundary points: Start at 255001, 2163655; 256020, 2163968; 257634, 2163912; 257384, 2163319; 257871, 2163010; 257756, 2162804; 256542, 2162680; 256379, 2162447; 256238, 2162463; 256081, 2162615; return to starting point.

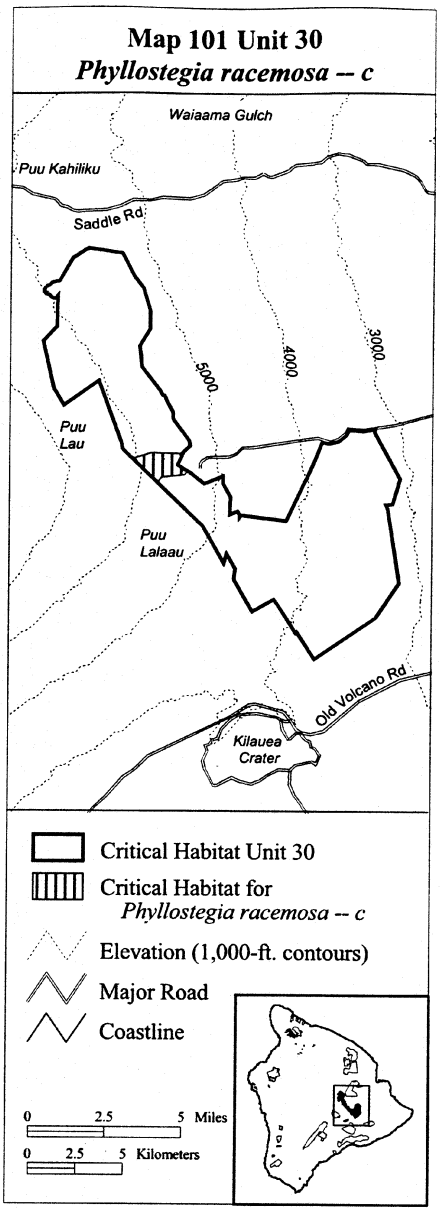
(ii) NOTE: Map 100 follows:



(101) Hawaii 30—*Phyllostegia velutina*—b (1,180 ha, 2,916 ac)

(i) Unit consists of the following 25 boundary points: Start at 255001, 2163655; 256020, 2163968; 257556, 2163812; 257342, 2163356; 258145, 2162834; 258761, 2162325; 259766, 2162727; 259792, 2162339; 260155, 2161636; 260142, 2160687; 260553, 2160880; 260676, 2160624; 260669, 2159628; 260010, 2158695; 259835, 2158111; 258895, 2159775; 258845, 2159864; 258808, 2159929; 258780, 2159981; 258748, 2160040; 258707, 2160080; 258644, 2160142; 258562, 2160221; 258544, 2160239; 256081, 2162615; return to starting point.

(ii) NOTE: Map 101 follows:

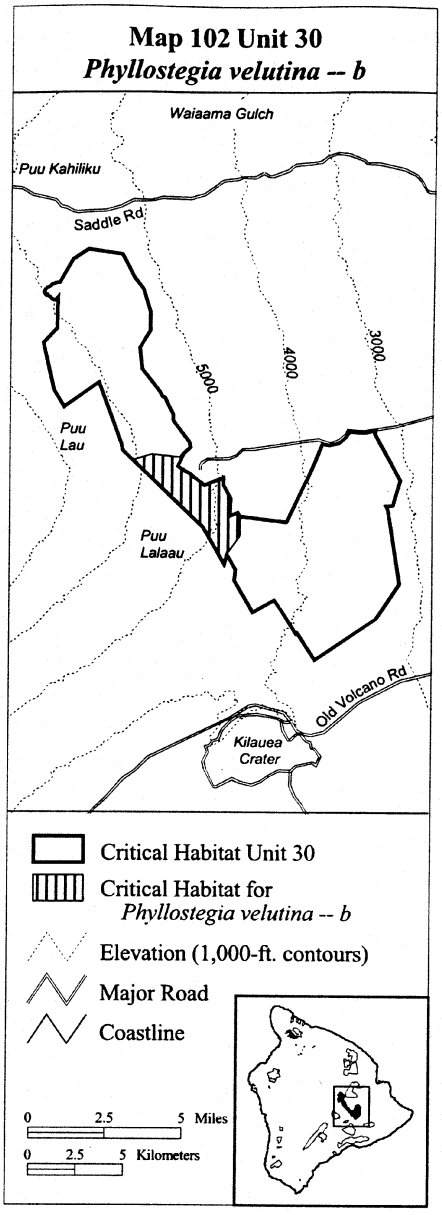


(102) Hawaii 30—*Plantago hawaiensis*—c (1,219 ha, 3,012 ac)

(i) Unit consists of the following 13 boundary points: Start at 254476, 2168522; 254473, 2168510; 254874, 2167383; 256572, 2166997; 257174, 2165685; 257971,

2164620; 258044, 2164337; 257576, 2163925; 256125, 2164018; 255434, 2163788; 255099, 2163685; 254488, 2164250; 253207, 2168032; return to starting point.

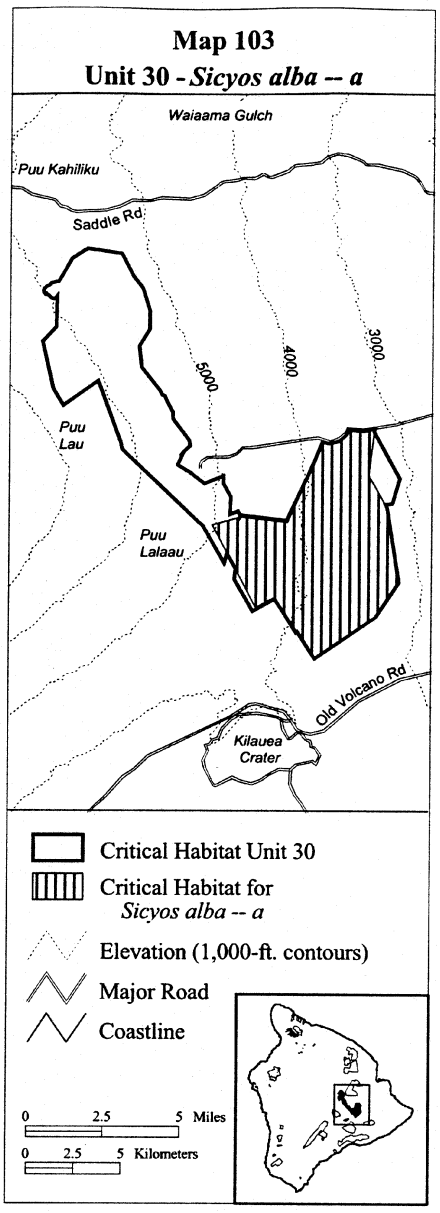
(ii) NOTE: Map 102 follows:



(103) Hawaii 30—*Sicyos alba*—a (6,266 ha, 15,483 ac)

(i) Unit consists of the following 18 boundary points: Start at 266388, 2165221; 267132, 2165147; 267709, 2165277; 267412, 2162783; 268417, 2161049; 269013, 2157105; 267821, 2155262; 264606, 2153076; 262507, 2156298; 261492, 2155783; 259208, 2160114; 260710, 2160549; 263148, 2160288; 264210, 2162671; 264954, 2164570; 265289, 2164477; 265811, 2164588; 266183, 2164886; return to starting point.

(ii) NOTE: Map 103 follows:



(104) Table of Protected Species Within Each Critical Habitat Unit for the Island of Hawaii

Unit name	Species occupied	Species unoccupied
Hawaii 9—*Achyranthes mutica*—a	.....	*Achyranthes mutica.*
Hawaii 9—*Achyranthes mutica*—b	*Achyranthes mutica.*	
Hawaii 9—*Achyranthes mutica*—c	.....	*Achyranthes mutica.*
Hawaii 9—*Achyranthes mutica*—d	.....	*Achyranthes mutica.*

(104) Table of Protected Species Within Each Critical Habitat Unit for the Island of Hawaii—Continued

Unit name	Species occupied	Species unoccupied
Hawaii 9—*Achyranthes mutica*—e		*Achyranthes mutica.*
Hawaii 9—*Achyranthes mutica*—f		*Achyranthes mutica.*
Hawaii 9—*Achyranthes mutica*—g		*Achyranthes mutica.*
Hawaii 9—*Achyranthes mutica*—h		*Achyranthes mutica.*
Hawaii 9—*Achyranthes mutica*—i		*Achyranthes mutica.*
Hawaii 9—*Achyranthes mutica*—j		*Achyranthes mutica.*
Hawaii 28—*Adenophorus periens*—a	*Adenophorus periens.*	
Hawaii 10—*Argyroxiphium kauense*—a		*Argyroxiphium kauense.*
Hawaii 24—*Argyroxiphium kauense*—b	*Argyroxiphium kauense.*	
Hawaii 25—*Argyroxiphium kauense*—c	*Argyroxiphium kauense.*	
Hawaii 30—*Argyroxiphium kauense*—d	*Argyroxiphium kauense.*	
Hawaii 24—*Asplenium fragile* var. *insulare*—a.	*Asplenium fragile* var. *insulare.*	
Hawaii 10—*Bonamia menziesii*—a		*Bonamia menziesii.*
Hawaii 8—*Clermontia drepanomorpha*—a	*Clermontia drepanomorpha.*	
Hawaii 1—*Clermontia lindseyana*—a	*Clermontia lindseyana.*	
Hawaii 2—*Clermontia lindseyana*—b	*Clermontia lindseyana.*	
Hawaii 30—*Clermontia lindseyana*—c	*Clermontia lindseyana.*	
Hawaii 1—*Clermontia peleana*—a	*Clermontia peleana.*	
Hawaii 3—*Clermontia peleana*—b	*Clermontia peleana.*	
Hawaii 29—*Clermontia peleana*—c	*Clermontia peleana.*	
Hawaii 1—*Clermontia pyrularia*—a		*Clermontia pyrularia.*
Hawaii 2—*Clermontia pyrularia*—b	*Clermontia pyrularia.*	
Hawaii 10—*Colubrina oppositifolia*—a	*Colubrina oppositifolia.*	
Hawaii 18—*Colubrina oppositifolia*—b	*Colubrina oppositifolia.*	
Hawaii 11—*Cyanea hamatiflora* ssp. *carlsonii*—a.	*Cyanea hamatiflora* ssp. *carlsonii.*	
Hawaii 14—*Cyanea hamatiflora* ssp. *carlsonii*—b.		*Cyanea hamatiflora* ssp. *carlsonii.*
Hawaii 15—*Cyanea hamatiflora* ssp. *carlsonii*—c.		*Cyanea hamatiflora* ssp. *carlsonii.*
Hawaii 16—*Cyanea hamatiflora* ssp. *carlsonii*—d.	*Cyanea hamatiflora* ssp. *carlsonii.*	
Hawaii 3—*Cyanea platyphylla*—a	*Cyanea platyphylla.*	
Hawaii 29—*Cyanea platyphylla*—b	*Cyanea platyphylla.*	
Hawaii 1—*Cyanea shipmanii*—a	*Cyanea shipmanii.*	
Hawaii 30—*Cyanea shipmanii*—b	*Cyanea shipmanii.*	
Hawaii 30—*Cyanea shipmanii*—c		*Cyanea shipmanii.*
Hawaii 15—*Cyanea stictophylla*—a	*Cyanea stictophylla.*	
Hawaii 16—*Cyanea stictophylla*—b	*Cyanea stictophylla.*	
Hawaii 24—*Cyanea stictophylla*—c		*Cyanea stictophylla.*
Hawaii 30—*Cyanea stictophylla*—d		*Cyanea stictophylla.*
Hawaii 3—*Cyrtandra giffardii*—a	*Cyrtandra giffardii.*	
Hawaii 29—*Cyrtandra giffardii*—b		*Cyrtandra giffardii.*
Hawaii 30—*Cyrtandra giffardii*—c	*Cyrtandra giffardii.*	
Hawaii 3—*Cyrtandra tintinnabula*—a	*Cyrtandra tintinnabula.*	
Hawaii 29—*Cyrtandra tintinnabula*—b		*Cyrtandra tintinnabula.*
Hawaii 10—*Delissea undulata*—a		*Delissea undulata.*
Hawaii 10—*Delissea undulata*—b	*Delissea undulata.*	
Hawaii 17—*Diellia erecta*—a	*Diellia erecta.*	
Hawaii 18—*Diellia erecta*—b	*Diellia erecta.*	
Hawaii 17—*Flueggea neowawraea*—a	*Flueggea neowawraea.*	
Hawaii 18—*Flueggea neowawraea*—b	*Flueggea neowawraea.*	
Hawaii 18—*Gouania vitifolia*—a	*Gouania vitifolia.*	
Hawaii 26—*Hibiscadelphus giffardianus*—a.	*Hibiscadelphus giffardianus.*	
Hawaii 10—*Hibiscadelphus hualalaiensis*—a.	*Hibiscadelphus hualalaiensis.*	
Hawaii 10—*Hibiscus brackenridgei*—a	*Hibiscus brackenridgei.*	
Hawaii 21—*Ischaemum byrone*—a		*Ischaemum byrone.*
Hawaii 22—*Ischaemum byrone*—b	*Ischaemum byrone.*	
Hawaii 4—*Isodendrion hosakae*—a		*Isodendrion hosakae.*
Hawaii 4—*Isodendrion hosakae*—b		*Isodendrion hosakae.*
Hawaii 4—*Isodendrion hosakae*—c		*Isodendrion hosakae.*
Hawaii 4—*Isodendrion hosakae*—d		*Isodendrion hosakae.*
Hawaii 4—*Isodendrion hosakae*—e		*Isodendrion hosakae.*
Hawaii 4—*Isodendrion hosakae*—f	*Isodendrion hosakae.*	
Hawaii 19—*Mariscus fauriei*—a	*Mariscus fauriei.*	
Hawaii 24—*Melicope zahlbruckneri*—a		*Melicope zahlbruckneri.*
Hawaii 26—*Melicope zahlbruckneri*—b	*Melicope zahlbruckneri.*	
Hawaii 10—*Neraudia ovata*—a		*Neraudia ovata.*

(104) Table of Protected Species Within Each Critical Habitat Unit for the Island of Hawaii—Continued

Unit name	Species occupied	Species unoccupied
Hawaii 18—*Neraudia ovata*—d	*Neraudia ovata.*	
Hawaii 5—*Nothocestrum breviflorum*—a	.....	*Nothocestrum breviflorum.*
Hawaii 6—*Nothocestrum breviflorum*—b	*Nothocestrum breviflorum.*	
Hawaii 10—*Nothocestrum breviflorum*—c	*Nothocestrum breviflorum.*	
Hawaii 1—*Phyllostegia racemosa*—a	*Phyllostegia racemosa.*	
Hawaii 2—*Phyllostegia racemosa*—b	*Phyllostegia racemosa.*	
Hawaii 30—*Phyllostegia racemosa*—c	.....	*Phyllostegia racemosa.*
Hawaii 24—*Phyllostegia velutina*—a	*Phyllostegia velutina.*	
Hawaii 30—*Phyllostegia velutina*—b	*Phyllostegia velutina.*	
Hawaii 3—*Phyllostegia warshaueri*—a	*Phyllostegia warshaueri.*	
Hawaii 8—*Phyllostegia warshaueri*—b	*Phyllostegia warshaueri.*	
Hawaii 24—*Plantago hawaiensis*—a	*Plantago hawaiensis.*	
Hawaii 25—*Plantago hawaiensis*—b	*Plantago hawaiensis.*	
Hawaii 30—*Plantago hawaiensis*—c	*Plantago hawaiensis.*	
Hawaii 7—*Pleomele hawaiiensis*—a	*Pleomele hawaiiensis.*	
Hawaii 10—*Pleomele hawaiiensis*—b	*Pleomele hawaiiensis.*	
Hawaii 18—*Pleomele hawaiiensis*—c	*Pleomele hawaiiensis.*	
Hawaii 23—*Pleomele hawaiiensis*—d	*Pleomele hawaiiensis.*	
Hawaii 27—*Portulaca sclerocarpa*—a	*Portulaca sclerocarpa.*	
Hawaii 20—*Sesbania tomentosa*—a	*Sesbania tomentosa.*	
Hawaii 23—*Sesbania tomentosa*—b	*Sesbania tomentosa.*	
Hawaii 30—*Sicyos alba*—a	*Sicyos alba.*	
Hawaii 25—*Silene hawaiiensis*—a	*Silene hawaiiensis.*	
Hawaii 27—*Silene hawaiiensis*—b	*Silene hawaiiensis.*	
Hawaii 10—*Solanum incompletum*—a	.....	*Solanum incompletum.*
Hawaii 11—*Solanum incompletum*—b	.....	*Solanum incompletum.*
Hawaii 4—*Vigna o-wahuensis*—a	.....	*Vigna o-wahuensis.*
Hawaii 4—*Vigna o-wahuensis*—b	.....	*Vigna o-wahuensis.*
Hawaii 4—*Vigna o-wahuensis*—c	.....	*Vigna o-wahuensis.*
Hawaii 10—*Zanthoxylum dipetalum* ssp. *tomentosum*—a.	*Zanthoxylum dipetalum* ssp. *tomentosum.*	

(105) 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).

(l) *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 tameiameiae*, *Metrosideros polymorpha*, *Plantago hawaiensis*, *Rhynchospora chinensis*, *Silene hawaiiensis*, or *Vaccinium reticulatum;* and

(ii) Elevations between 1,583 and 2,246 m (5,193 and 8,024 ft).

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 tameiameiae*, *Melicope clusiifolia*, 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 tameiameiae*, *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 hawaiensis;* 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 clermontioides*, *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 platyphylla*** (HAHA)

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 *Urera 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 tameiameiae*, *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 CONVOLVULACEAE: ***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 following 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 CYPERACEAE: ***Mariscus fauriei*** (NCN)

Hawaii 19—*Mariscus 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*, *Rauvolfia 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: ***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 pescaprae*, *Jacquemontia ovalifolia* ssp. *sandwicensis*, *Leptecophylla tameiameiae*, *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 sandwicensis*, *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 LILIACEAE: ***Pleomele hawaiiensis*** (HALA PEPE)

Hawaii 7—*Pleomele hawaiiensis*—a, Hawaii 10—*Pleomele hawaiiensis*—b, Hawaii 18—*Pleomele hawaiiensis*—c, and Hawaii 23—*Pleomele hawaiiensis*—d, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Pleomele 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) 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*, *Nothocestrum 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 hawaiensis*** (LAUKAHI KUAHIWI)

Hawaii 24—*Plantago hawaiensis*—a, Hawaii 25—*Plantago hawaiensis*—b, and Hawaii 30—*Plantago hawaiensis*—c, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Plantago hawaiensis* 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 elements 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*** (KAUILA)

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*, *Rauvolfia 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*, *Cocculus orbiculatus*, *Fimbristylis hawaiiensis*, *Myoporum sandwicense*, *Myrsine lanaiensis*, *Myrsine lessertiana*, *Nothocestrum breviflorum*, *Pleomele hawaiiensis*, *or Reynoldsia sandwicensis;* and

(ii) Elevations between 28 and 1,526 m (93 to 5,005 ft).

FAMILY VIOLACEAE: ***Isodendrion hosakae*** (AUPAKA)

Hawaii 4—*Isodendrion hosakae*—a, Hawaii 4—*Isodendrion hosakae*—b, Hawaii 4—*Isodendrion hosakae*—c, Hawaii 4—*Isodendrion hosakae*—d, Hawaii 4—*Isodendrion hosakae*—e, and Hawaii 4—*Isodendrion hosakae*—f, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Isodendrion 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: ***Isodendrion pyrifolium*** (WAHINE NOHO KULA)

Hawaii 12—*Isodendrion pyrifolium*—a and Hawaii 13—*Isodendrion pyrifolium*—b, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Isodendrion pyrifolium* on Hawaii. Within these unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Lowland dry forests containing one or more of the following native plant species: *Myoporum sandwicense*, *Psydrax odorata*, *Sida fallax*, *Sophora chrysophylla*, or *Waltheria indica;* and

(ii) Elevations between 29 and 128 m (94 and 420 ft).

(2) *Ferns and allies*.

FAMILY ASPLENIACEAE: ***Asplenium fragile*** VAR. ***insulare*** (NCN)

Hawaii 24—*Asplenium fragile* var. *insulare*—a, identified in the legal description in paragraph (k) of this section, constitutes critical habitat for *Asplenium fragile* 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).

FAMILY ASPLENIACEAE: ***Diellia erecta*** (ASPLENIUM-LEAVED DIELLIA)

Hawaii 17—*Diellia erecta*—a and Hawaii 18—*Diellia erecta*—b, identified in the legal descriptions in paragraph (k) of this section, constitute critical habitat for *Diellia erecta* 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*** (PENDENT KIHI FERN)

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]

EFFECTIVE DATE NOTE: At 77 FR 57767, Sept. 18, 2012, §17.99 was amended by revising paragraphs (i) and (j), effective Oct. 18, 2012.

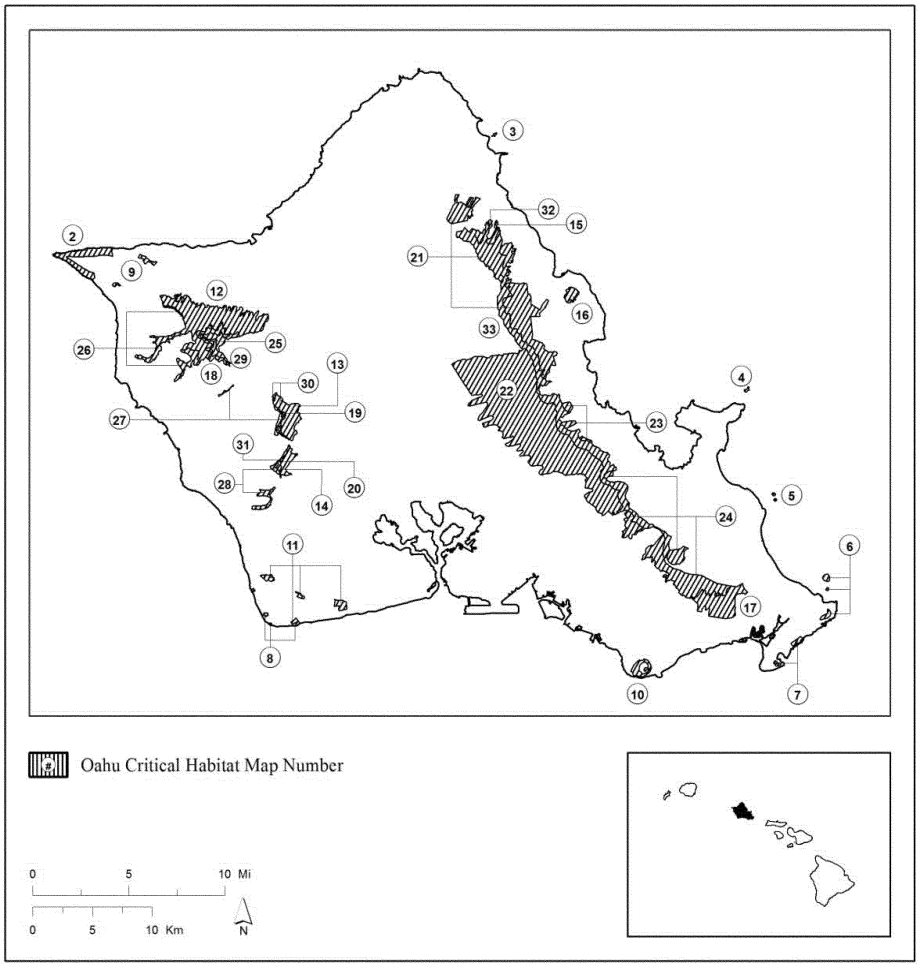
For the convenience of the user, the revised text is set forth as follows:

§ 17.99 Critical habitat; plants on the islands of Kauai, Niihau, Molokai, Maui, Kahoolawe, Oahu, and Hawaii, HI, and on the Northwestern Hawaiian Islands.

(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 habiat 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

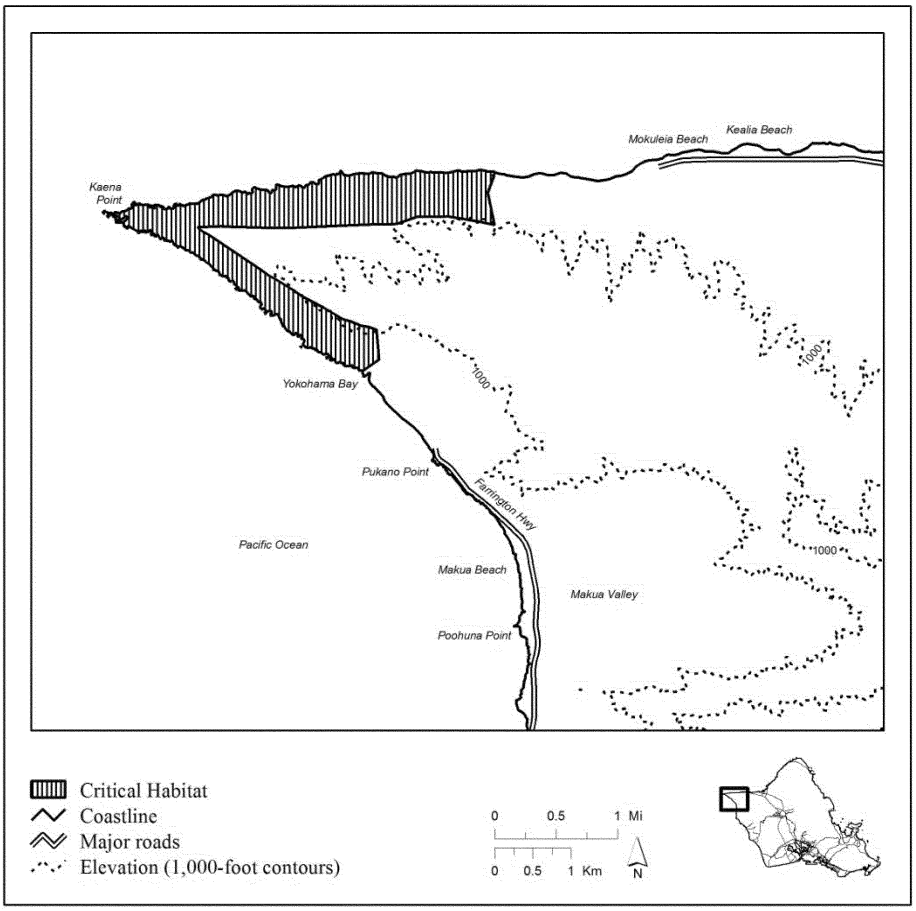


(2) Oahu—Coastal—Unit 1 (958 ac; 388 ha).

(i) This unit is critical habitat for *Achyranthes splendens* var. *rotundata*, *Bidens amplectens*, *Centaurium 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

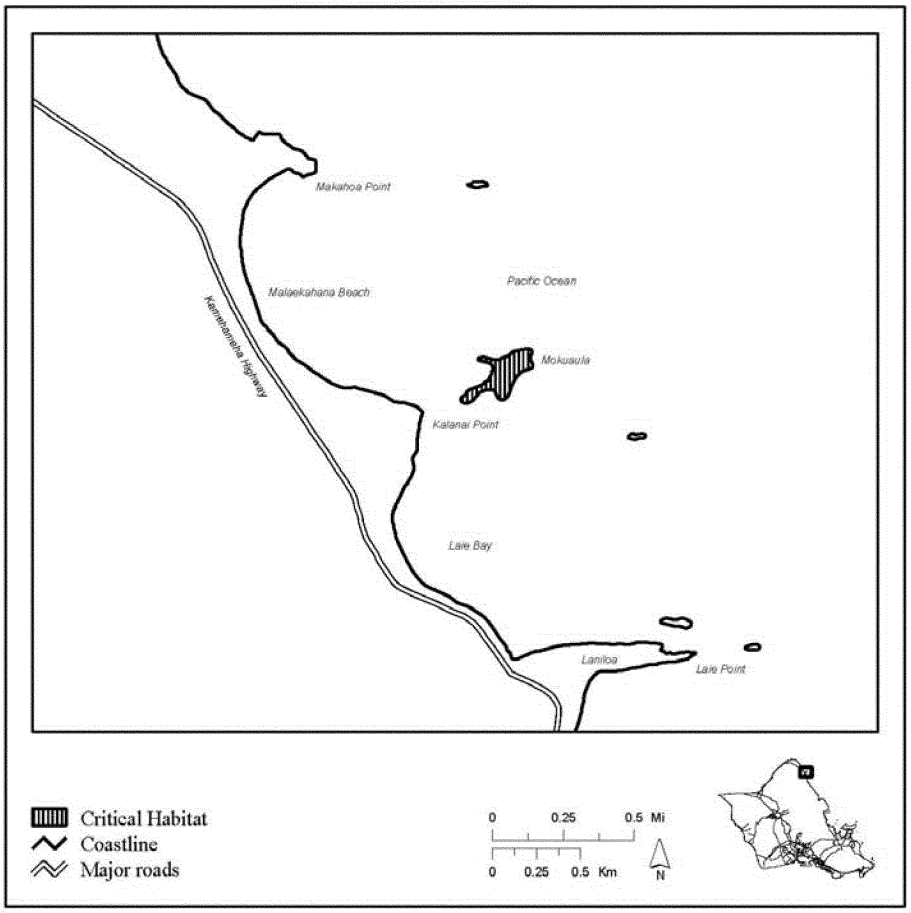


(3) Oahu—Coastal—Unit 2 (12 ac; 5 ha).

(i) This unit is critical habitat for *Centaurium 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

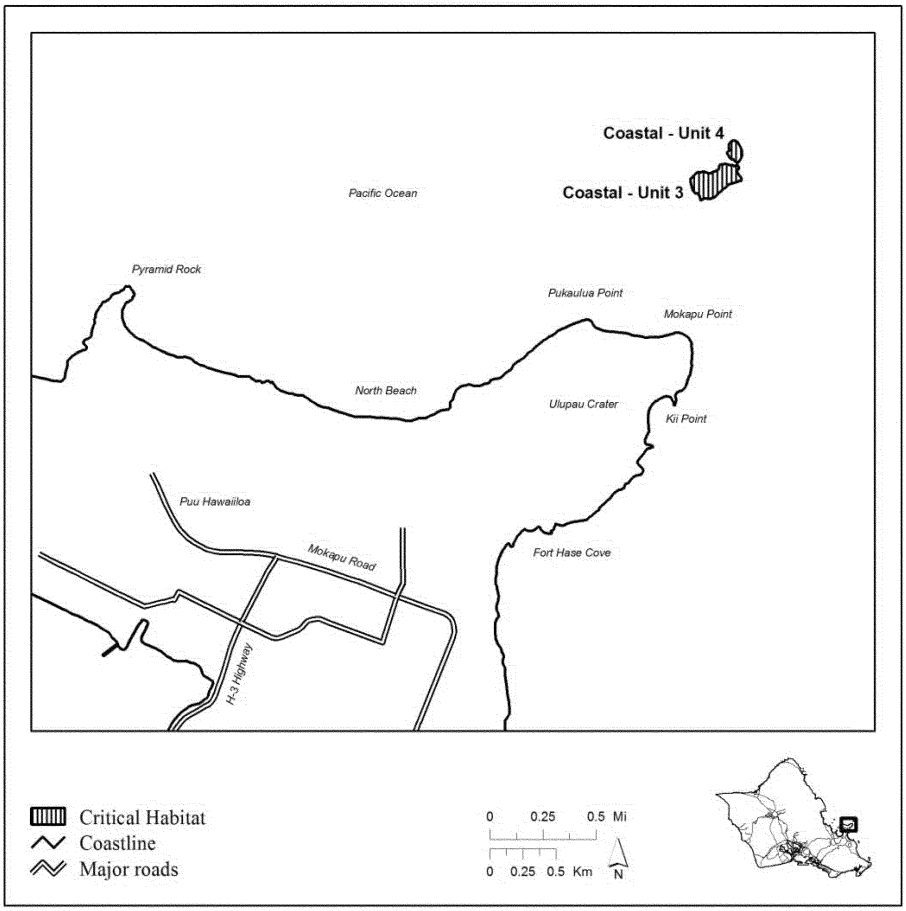


(4) Oahu—Coastal—Unit 3 (15 ac; 6 ha) and Oahu–Coastal–Unit 4 (3 ac; 1 ha).

(i) These units are critical habitat for *Centaurium 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

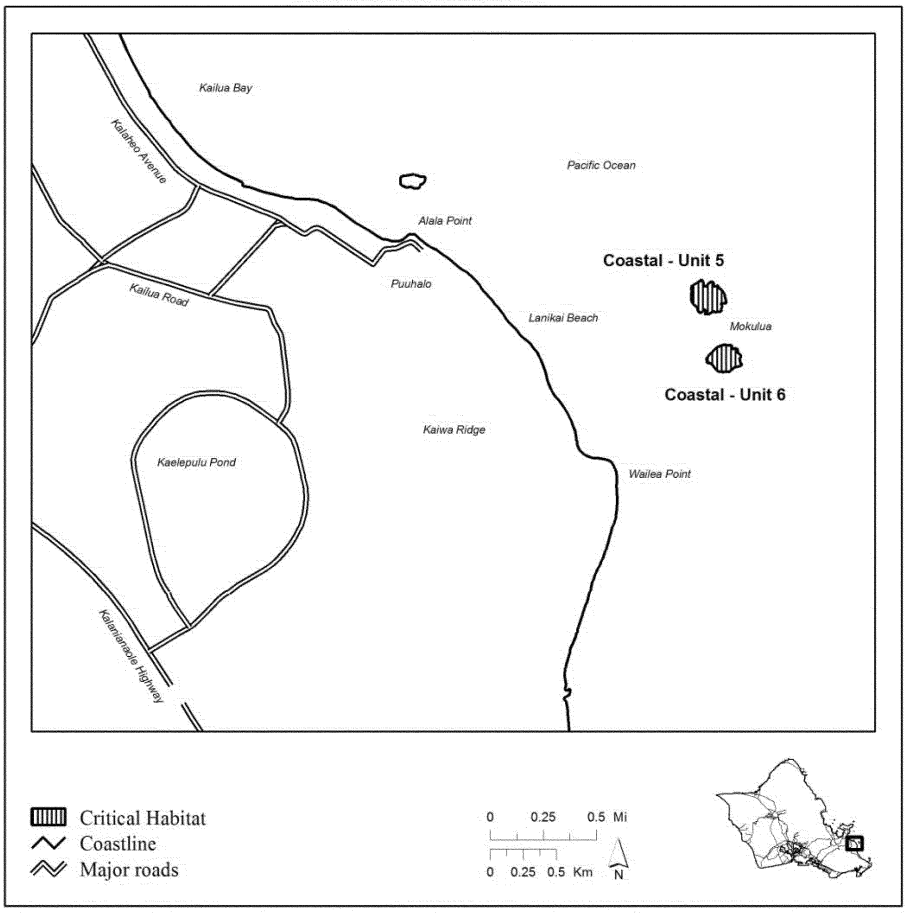


(5) Oahu—Coastal—Unit 5 (12 ac; 5 ha) and Oahu—Coastal—Unit 6 (9 ac; 4 ha).

(i) These units are critical habitat for *Centaurium 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

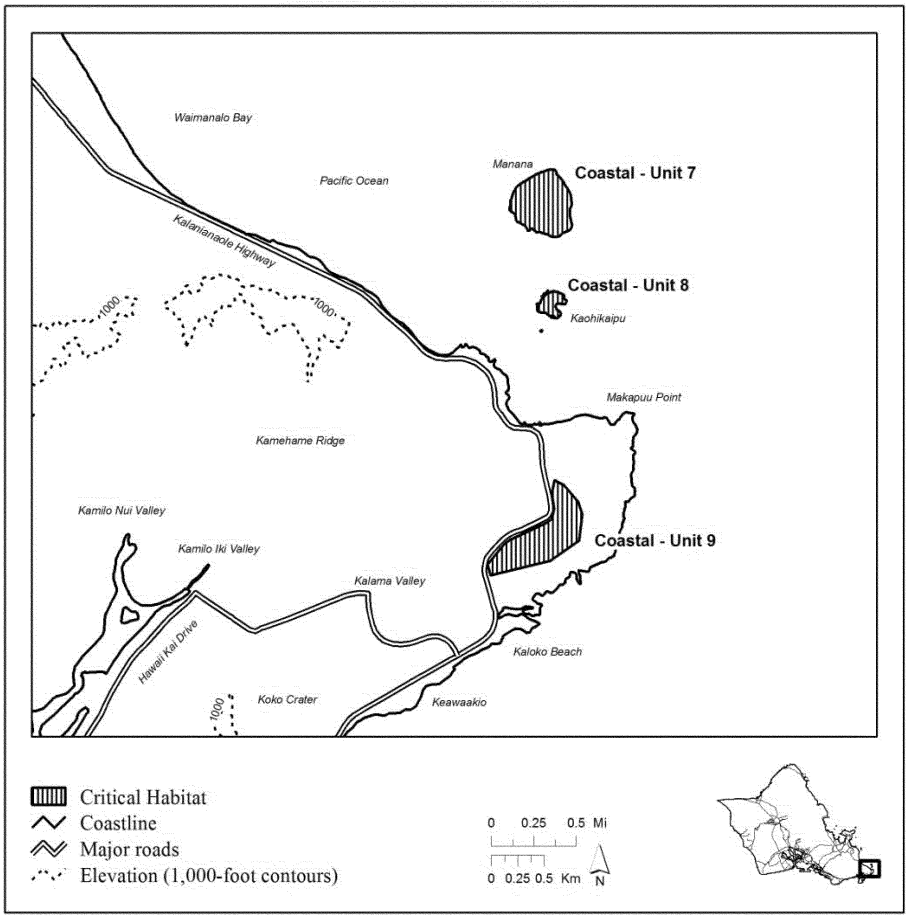


(6) Oahu—Coastal—Unit 7 (67 ac; 27 ha), Oahu—Coastal—Unit 8 (10 ac; 4 ha), and Oahu—Coastal—Unit 9 (80 ac; 33 ha).

(i) These units are critical habitat for, *Centaurium 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



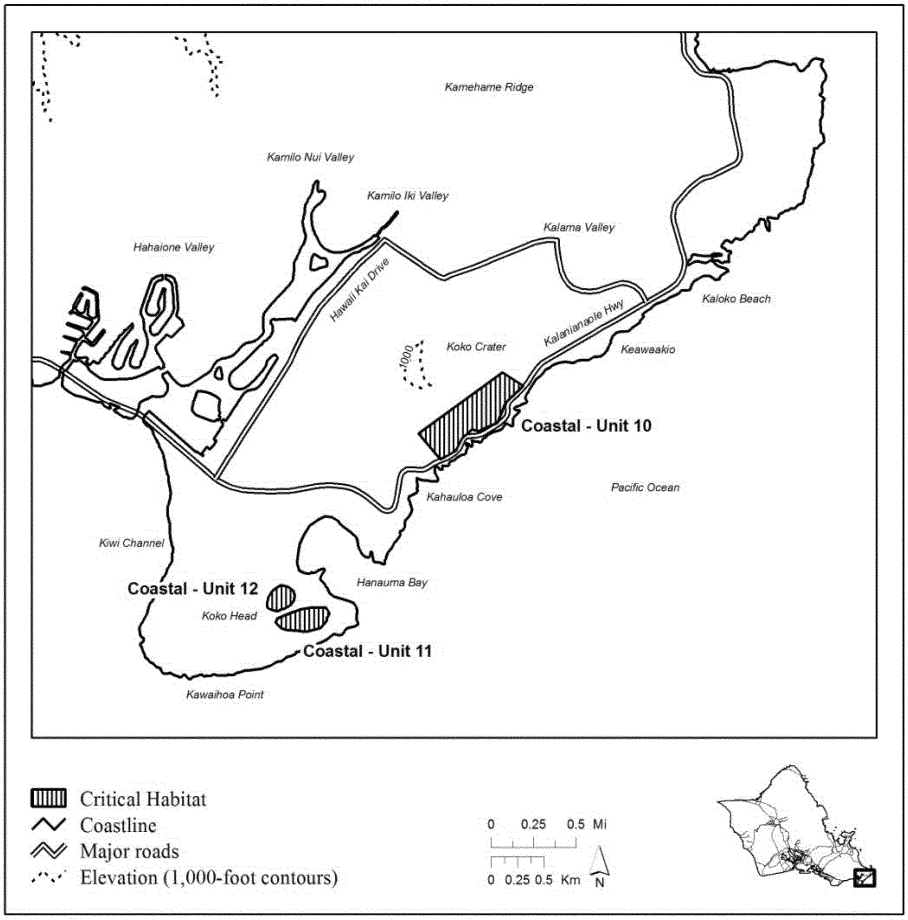
(7) Oahu—Coastal—Unit 10 (74 ac; 30 ha), Oahu—Coastal—Unit 11 (20 ac; 8 ha), and Oahu—Coastal—Unit 12 (11 ac; 5 ha).

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

(ii) Oahu—Coastal—Unit 11 and Oahu—Coastal—Unit 12 are critical habitat for *Centaurium 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

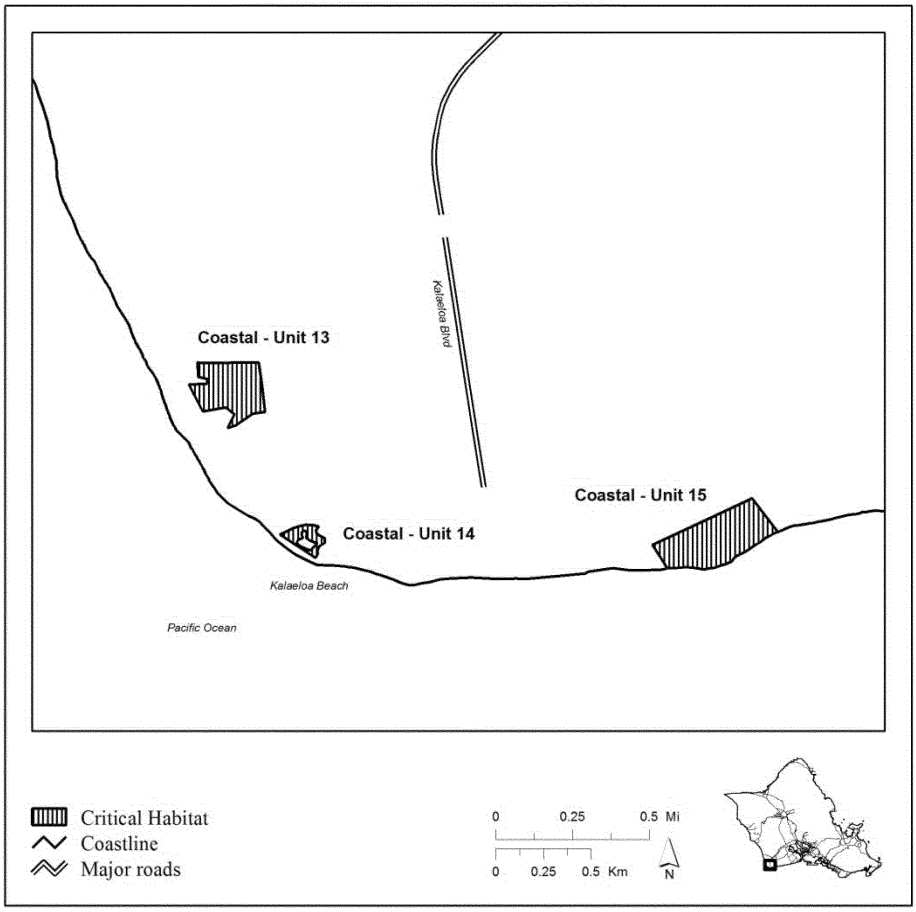


(8) Oahu—Coastal—Unit 13 (23 ac; 10 ha), Oahu—Coastal—Unit 14 (4 ac; 2 ha), and Oahu—Coastal—Unit 15 (33 ac; 13 ha).

(i) These units are critical habitat for *Achyranthes splendens* var. *rotundata*, *Bidens amplectens*, *Centaurium 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

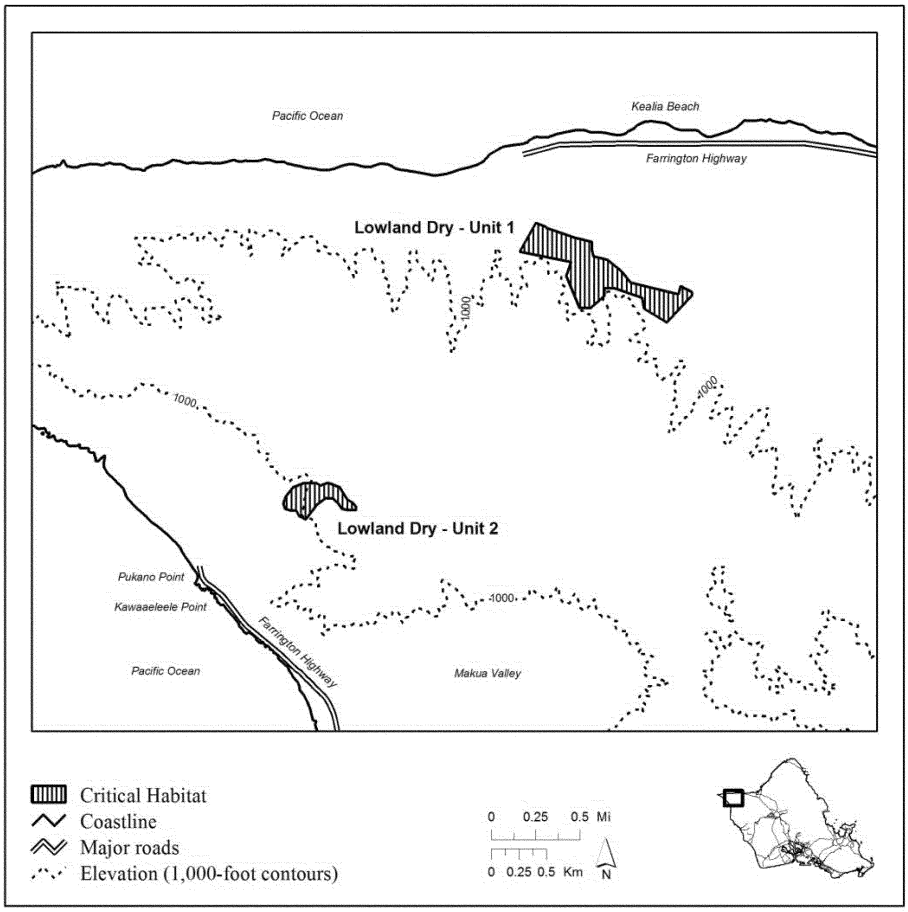


(9) Oahu—Lowland Dry—Unit 1 (102 ac; 41 ha) and Oahu—Lowland Dry—Unit 2 (29 ac; 12).

(i) These units are critical habitat for *Achyranthes splendens* var. *rotundata*, *Bidens amplectens*, *Bonamia menziesii*, *Chamaesyce celastroides* var. *kaenana*, *Euphorbia haeleeleana*, *Gouania meyenii*, *Gouania vitifolia*, *Hibiscus brackenridgei*, *Isodendrion pyrifolium*, *Melanthera tenuifolia*, *Neraudia angulata*, *Nototrichium humile*, *Pleomele forbesii*, *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]

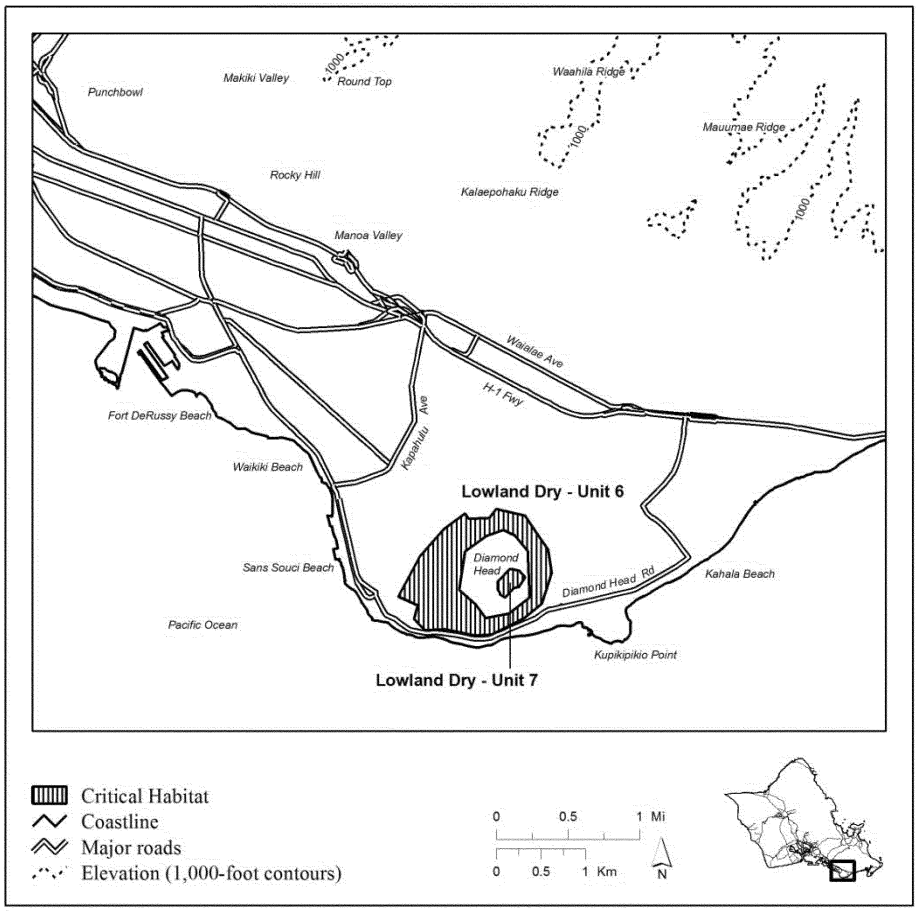
(11) Oahu—Lowland Dry—Unit 6 (287 ac; 116 ha) and Oahu—Lowland Dry—Unit 7 (15 ac; 6 ha).

(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

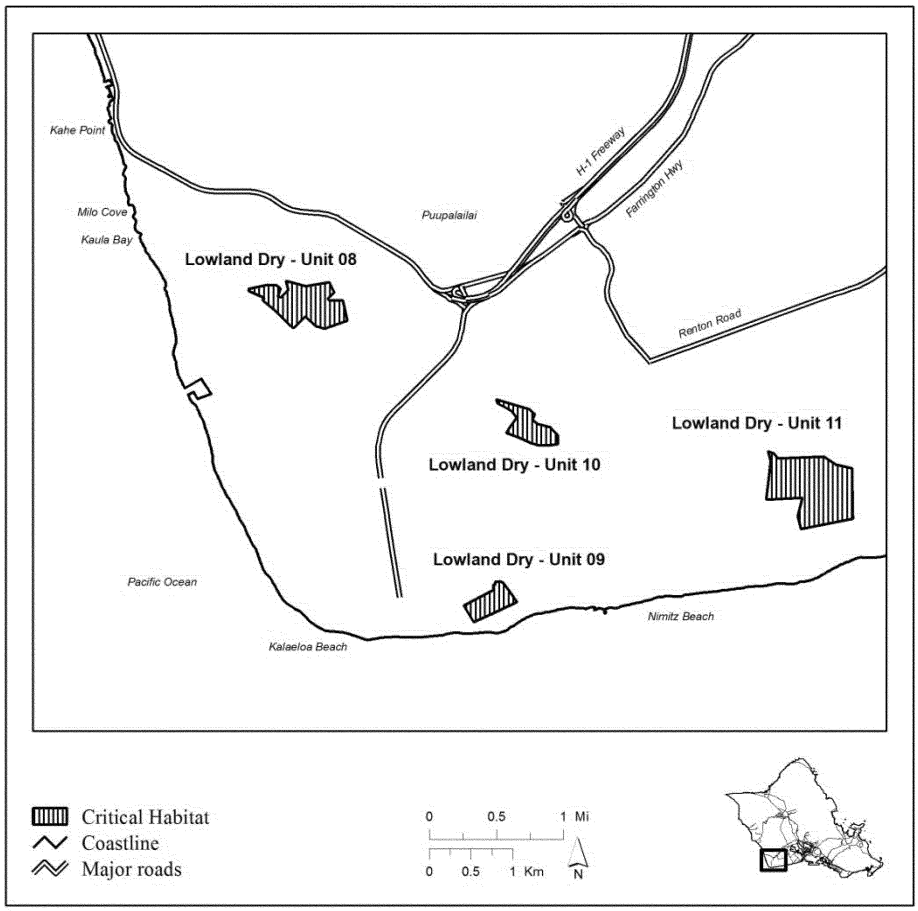


(12) Oahu—Lowland Dry—Unit 8 (99 ac; 40 ha), Oahu—Lowland Dry—Unit 9 (37 ac; 15 ha), Oahu—Lowland Dry—Unit 10 (43 ac; 17 ha), and Oahu—Lowland Dry—Unit 11 (166 ac; 67 ha).

(i) These units are critical habitat for *Achyranthes splendens* var. *rotundata*, *Bidens amplectens*, *Bonamia menziesii*, *Chamaesyce celastroides* var. *kaenana*, *Chamaesyce skottsbergii* var. *skottsbergii*, *Euphorbia haeleeleana*, *Gouania meyenii*, *Gouania vitifolia*, *Hibiscus brackenridgei*, *Isodendrion 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

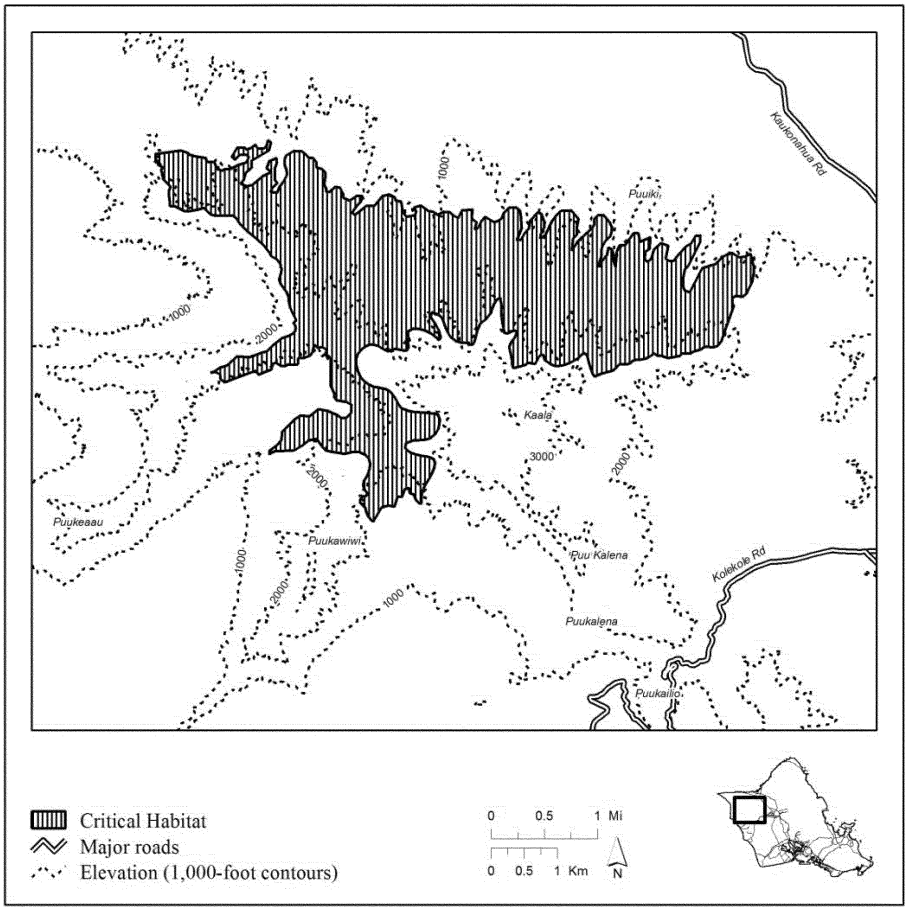


(13) Oahu—Lowland Mesic—Unit 1 (4,448 ac; 1,800 ha).

(i) This unit is critical habitat for *Abutilon sandwicense*, *Alectryon macrococcus*, *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 pennatiformis*, *Cyrtandra dentata*, *Delissea subcordata*, *Diellia falcata*, *Diellia unisora*, *Diplazium molokaiense*, *Dubautia herbstobatae*, *Eragrostis fosbergii*, *Eugenia koolauensis*, *Euphorbia haeleeleana*, *Flueggea neowawraea*, *Gardenia mannii*, *Gouania meyenii*, *Gouania vitifolia*, *Hesperomannia arborescens*, *Hesperomannia arbuscula*, *Hibiscus brackenridgei*, *Isodendrion laurifolium*, *Isodendrion longifolium*, *Kadua coriacea*, *Kadua degeneri*, *Kadua parvula*, *Labordia cyrtandrae*, *Lobelia niihauensis*, *Melanthera tenuifolia*, *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*, *Platydesma cornuta* var. *decurrens*, *Pleomele forbesii*, *Pteralyxia*

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

Map 12
Oahu–Lowland Mesic
Unit 1



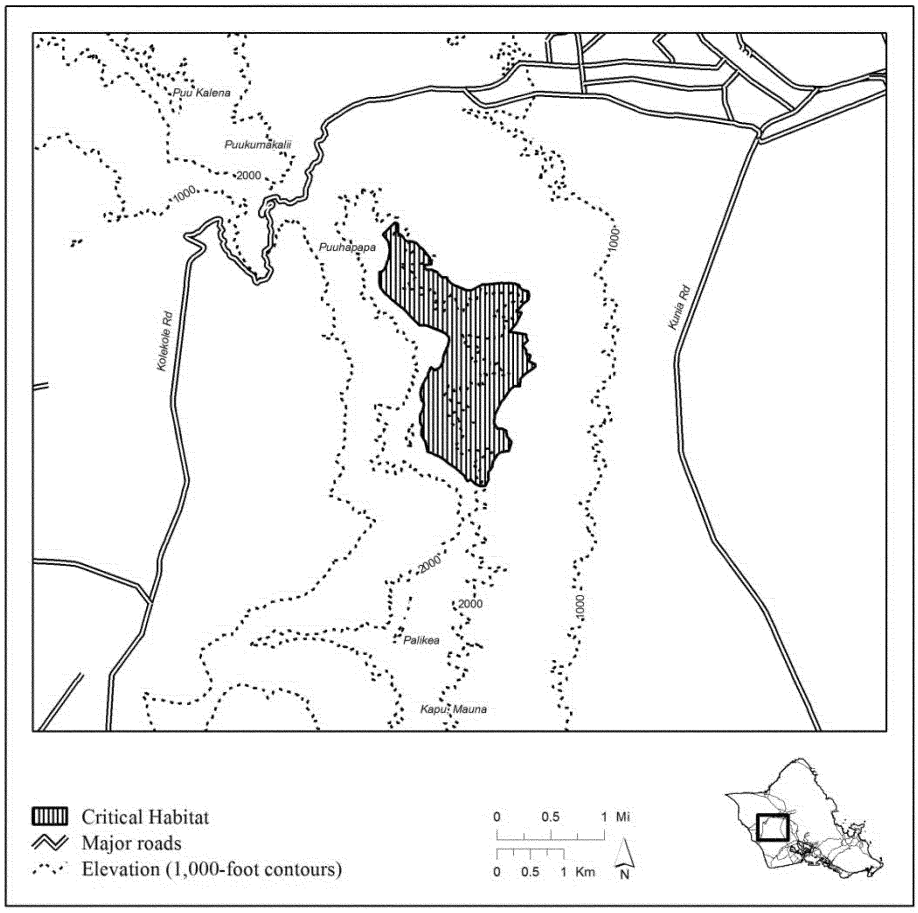
(14) Oahu—Lowland Mesic—Unit 2 (1,063 ac; 430 ha).

(i) This unit is critical habitat for *Abutilon sandwicense*, *Alectryon macrococcus*, *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 pennatiformis*, *Cyrtandra dentata*, *Delissea subcordata*, *Diellia falcata*, *Diellia unisora*, *Diplazium molokaiense*, *Dubautia herbstobatae*, *Eragrostis fosbergii*, *Eugenia koolauensis*, *Euphorbia haeleeleana*, *Flueggea neowawraea*, *Gardenia mannii*, *Gouania meyenii*, *Gouania vitifolia*, *Hesperomannia arborescens*,

Hesperomannia arbuscula, *Hibiscus brackenridgei*, *Isodendrion laurifolium*, *Isodendrion longifolium*, *Kadua coriacea*, *Kadua degeneri*, *Kadua parvula*, *Labordia cyrtandrae*, *Lobelia niihauensis*, *Melanthera tenuifolia*, *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*, *Platydesma cornuta* var. *decurrens*, *Pleomele forbesii*, *Pteralyxia macrocarpa*, *Sanicula mariversa*, *Schiedea hookeri*, *Schiedea kaalae*, *Schiedea nuttallii*, *Schiedea obovata*, *Silene perlmanii*, *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



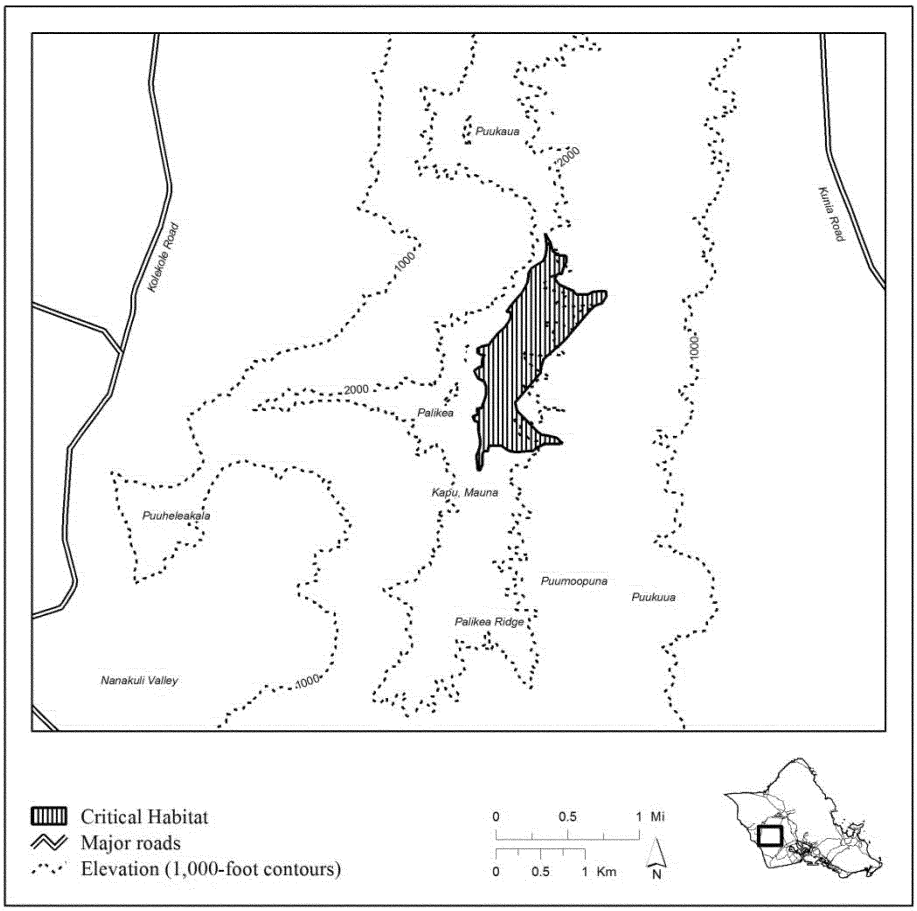
(15) Oahu—Lowland Mesic—Unit 3 (353 ac; 143 ha).

(i) This unit is critical habitat for *Abutilon sandwicense*, *Alectryon macrococcus*, *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 pennatiformis*, *Cyrtandra dentata*, *Delissea subcordata*, *Diellia falcata*, *Diellia unisora*, *Diplazium molokaiense*, *Dubautia herbstobatae*, *Eragrostis fosbergii*, *Eugenia koolauensis*, *Euphorbia haeleeleana*, *Flueggea neowawraea*, *Gardenia mannii*, *Gouania meyenii*, *Gouania vitifolia*, *Hesperomannia arborescens*, *Hesperomannia arbuscula*, *Hibiscus brackenridgei*, *Isodendrion longifolium*, *Kadua coriacea*, *Kadua degeneri*, *Kadua parvula*, *Labordia cyrtandrae*, *Lobelia niihauensis*, *Melanthera tenuifolia*, *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*, *Platydesma cornuta* var. *decurrens*, *Pleomele forbesii*, *Pteralyxia macrocarpa*, *Sanicula mariversa*, *Schiedea hookeri*, *Schiedea kaalae*, *Schiedea nuttallii*, *Schiedea obovata*, *Silene perlmanii*, *Solanum sandwicense*, *Stenogyne kanehoana*, *Tetramolopium lepidotum* ssp. *lepidotum*, *Urera kaalae*, and *Viola chamissoniana* ssp. *chamissoniana*.

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

Map 14
Oahu–Lowland Mesic
Unit 3

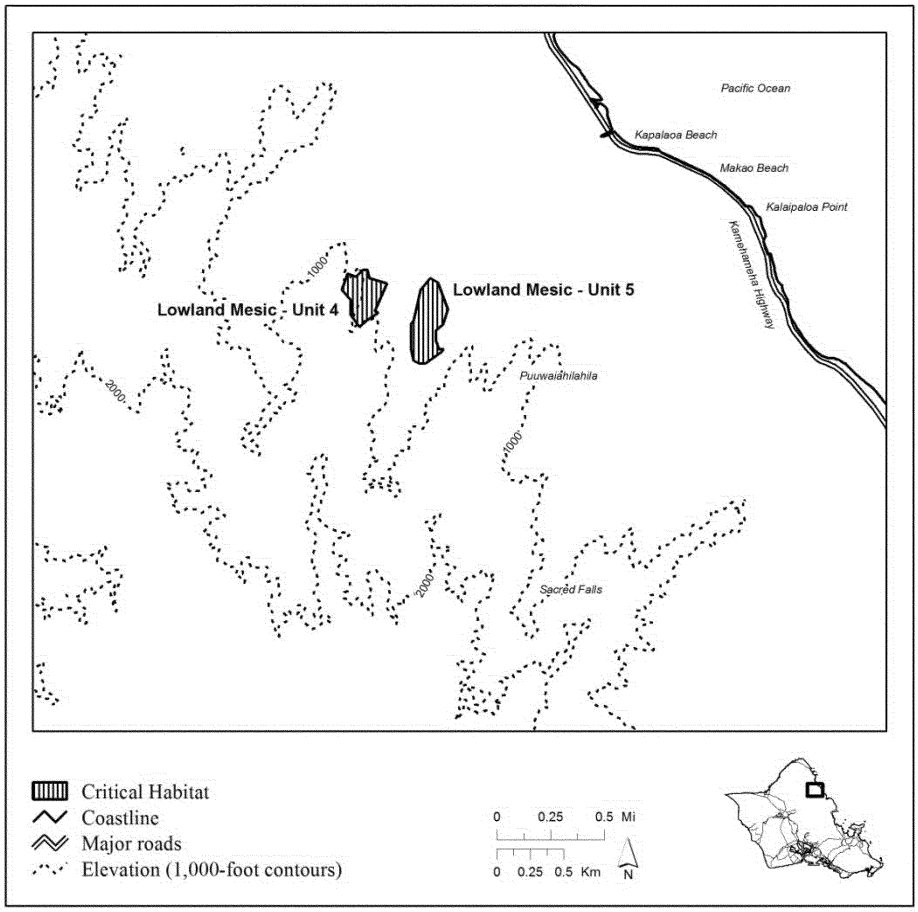


(16) Oahu—Lowland Mesic—Unit 4 (20 ac; 8 ha) and Oahu—Lowland Mesic—Unit 5 (29 ac; 12 ha).

(i) These units are critical habitat for *Alectryon macrococcus*, *Bonamia menziesii*, *Chamaesyce celastroides* var. *kaenana*, *Ctenitis squamigera*, *Cyanea acuminata*, *Cyanea. calycina*, *Cyanea crispa*, *Cyanea grimesiana* ssp. *grimesiana*, *Cyanea lanceolata*, *Cyanea longiflora*, *Cyanea truncata*, *Cyrtandra dentata*, *Cyrtandra polyantha*, *Delissea subcordata*, *Diellia erecta*, *Diellia falcata*, *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*, *Pleomele forbesii*, *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

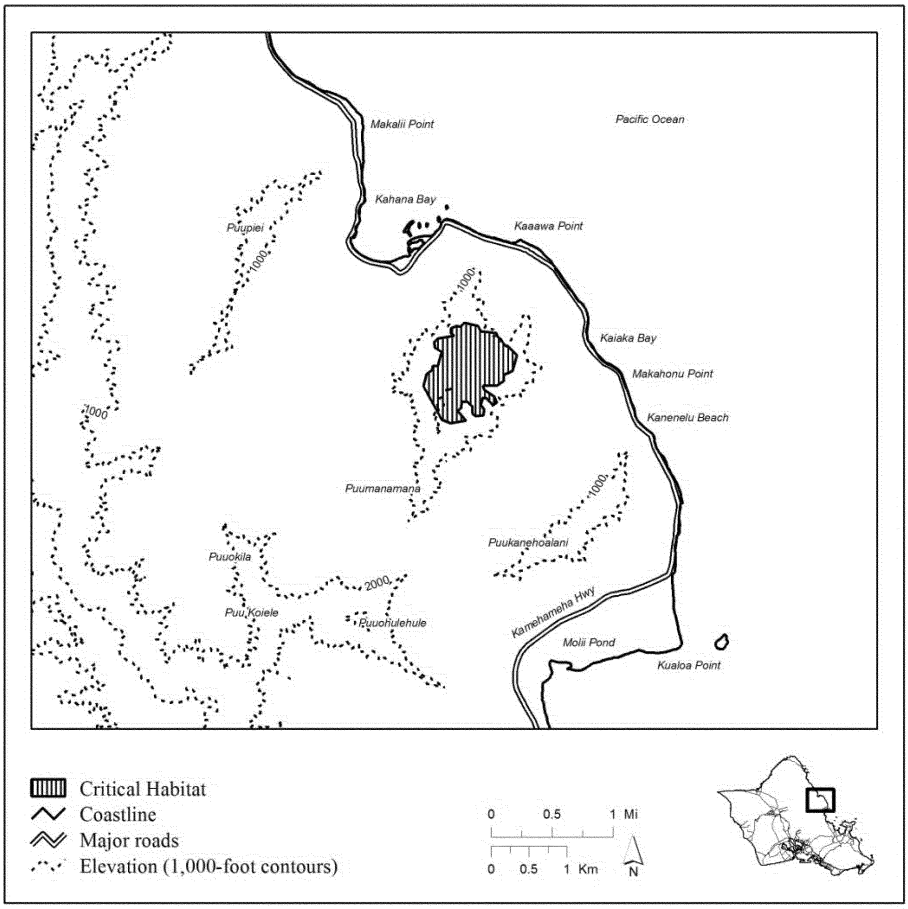


(17) Oahu—Lowland Mesic—Unit 6 (247 ac; 100 ha).

(i) This unit is critical habitat for *Alectryon macrococcus*, *Bonamia menziesii*, *Chamaesyce celastroides* var. *kaenana*, *Ctenitis squamigera*, *Cyanea acuminata*, *Cyanea calycina*, *Cyanea crispa*, *Cyanea grimesiana* ssp. *grimesiana*, *Cyanea lanceolata*, *Cyanea longiflora*, *Cyanea truncata*, *Cyrtandra dentata*, *Cyrtandra polyantha*, *Delissea subcordata*, *Diellia erecta*, *Diellia falcata*, *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*, *Pleomele forbesii*, *Pteralyxia 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

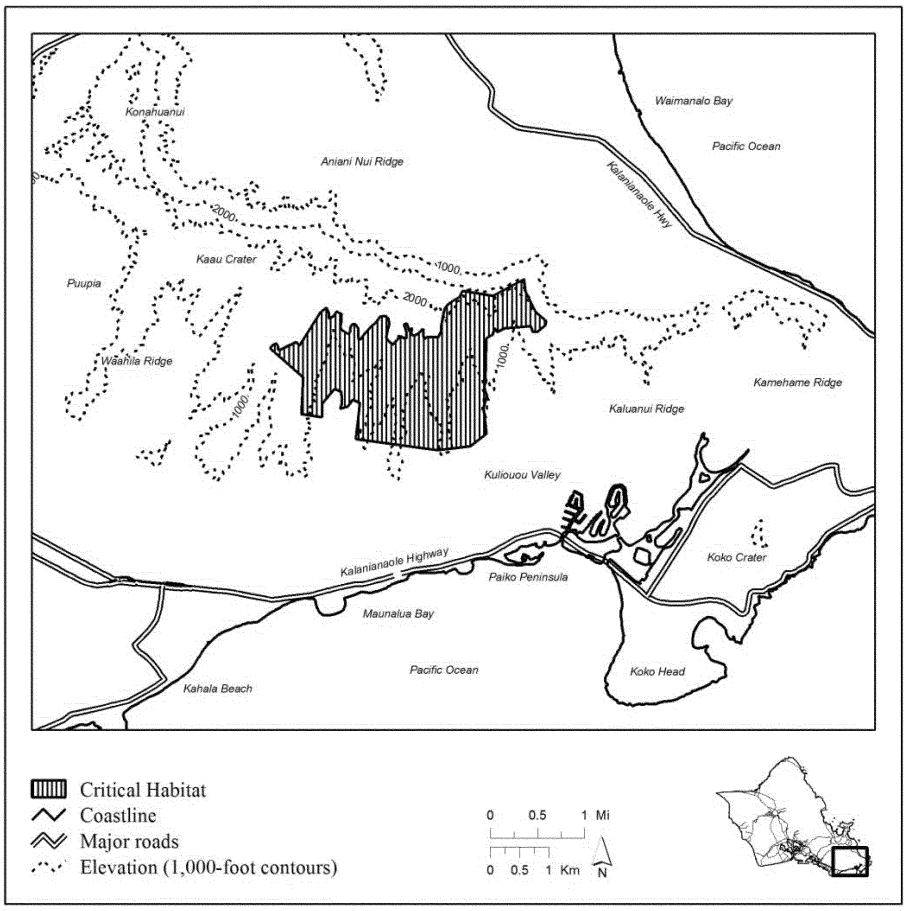


(18) Oahu—Lowland Mesic—Unit 7 (1,669 ac; 676 ha).

(ii) This unit is critical habitat for *Alectryon macrococcus*, *Bonamia menziesii*, *Chamaesyce celastroides* var. *kaenana*, *Ctenitis squamigera*, *Cyanea acuminata*, *Cyanea calycina*, *Cyanea crispa*, *Cyanea grimesiana* ssp. *grimesiana*, *Cyanea lanceolata*, *Cyanea longiflora*, *Cyanea truncata*, *Cyrtandra dentata*, *Cyrtandra polyantha*, *Delissea subcordata*, *Diellia erecta*, *Diellia falcata*, *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*, *Pleomele forbesii*, *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

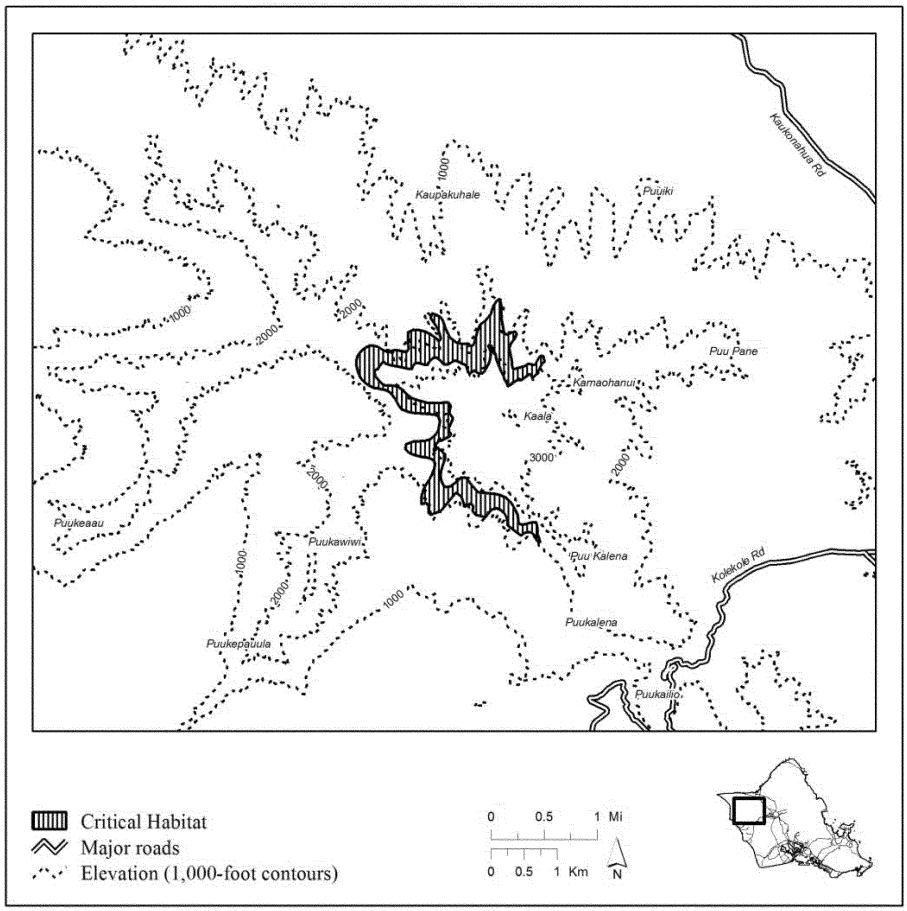


(19) Oahu—Lowland Wet—Unit 1 (541 ac; 219 ha).

(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*, *Isodendrion 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 1 (Map 18) follows:

Map 18
Oahu–Lowland Wet
Unit 1

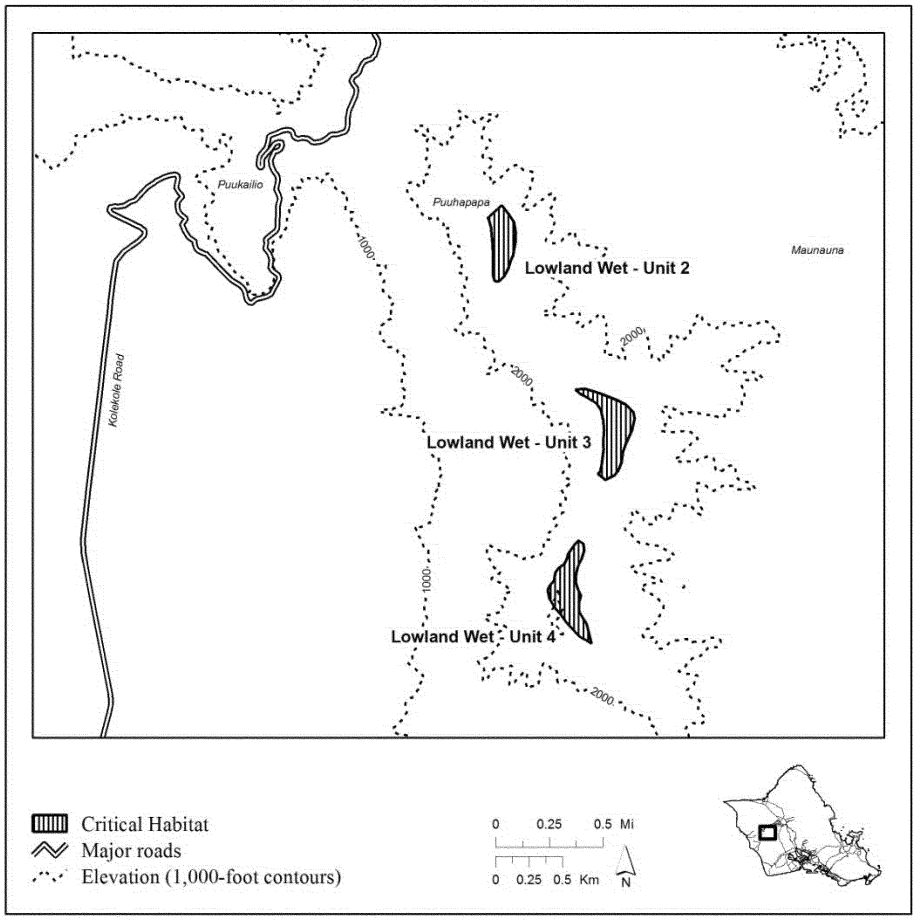


(20) Oahu—Lowland Wet—Unit 2 (20 ac; 8 ha), Oahu—Lowland Wet—Unit 3 (29 ac; 12 ha), and Oahu—Lowland Wet—Unit 4 (27 ac; 11 ha).

(i) These units are 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*, *Isodendrion 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 2, Oahu—Lowland Wet—Unit 3, and Oahu—Lowland Wet—Unit 4 (Map 19) follows:

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

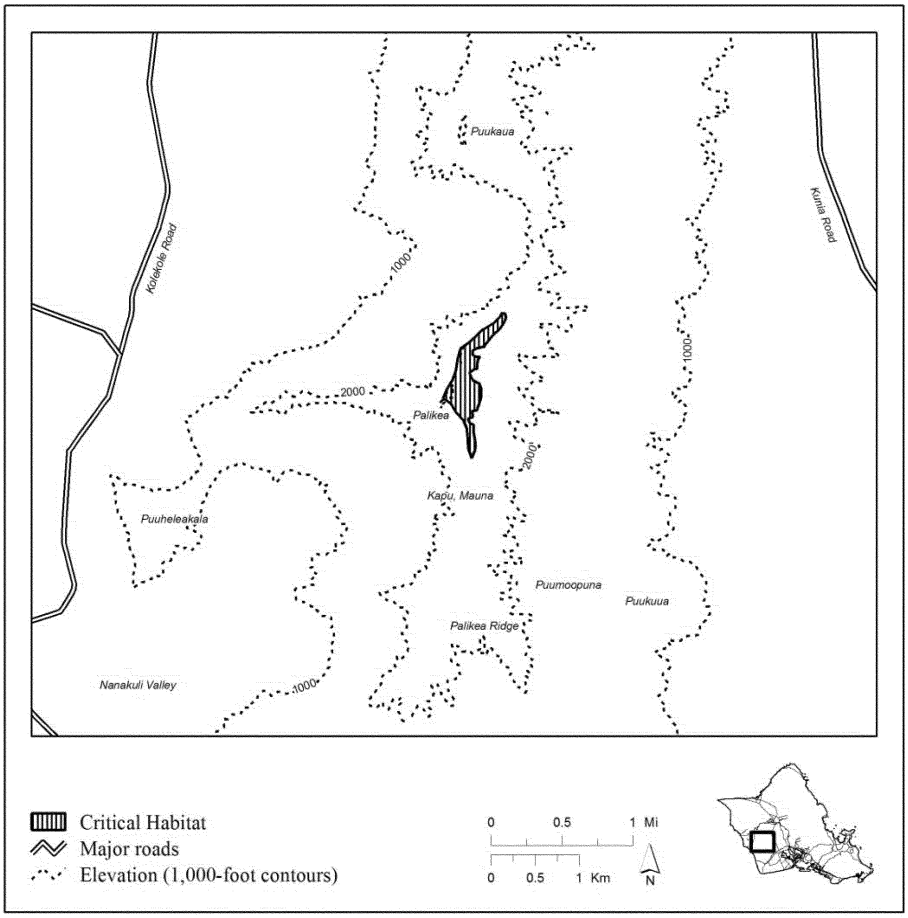


(21) Oahu—Lowland Wet—Unit 5 (74 ac; 30 ha).

(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*, *Isodendrion 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



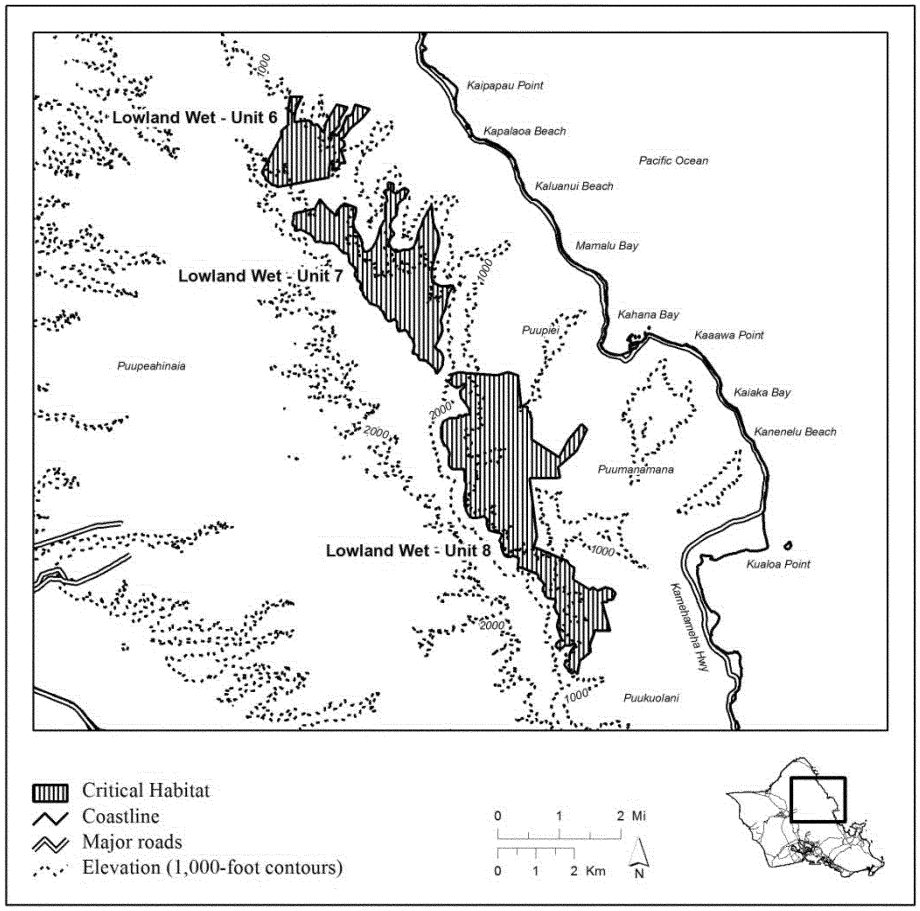
(22) Oahu—Lowland Wet—Unit 6 (790 ac; 320 ha), Oahu—Lowland Wet—Unit 7 (1,787 ac; 723 ha), and Oahu—Lowland Wet—Unit 8 (3,041 ac; 1,231 ha).

(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*, *Huperzia nutans*, *Isodendrion longifolium*, *Labordia cyrtandrae*, *Lobelia gaudichaudii* ssp. *koolauensis*, *Lobelia oahuensis*, *Melicope hiiakae*, *Melicope lydgatei*, *Myrsine juddii*, *Phyllostegia hirsuta*, *Phyllostegia parviflora* var. *parviflora*, *Plantago princeps* var. *longibracteata*, *Plantago princeps* var. *princeps*, *Platanthera holochila*, *Platydesma cornuta* var. *cornuta*, *Psychotria hexandra* ssp. *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



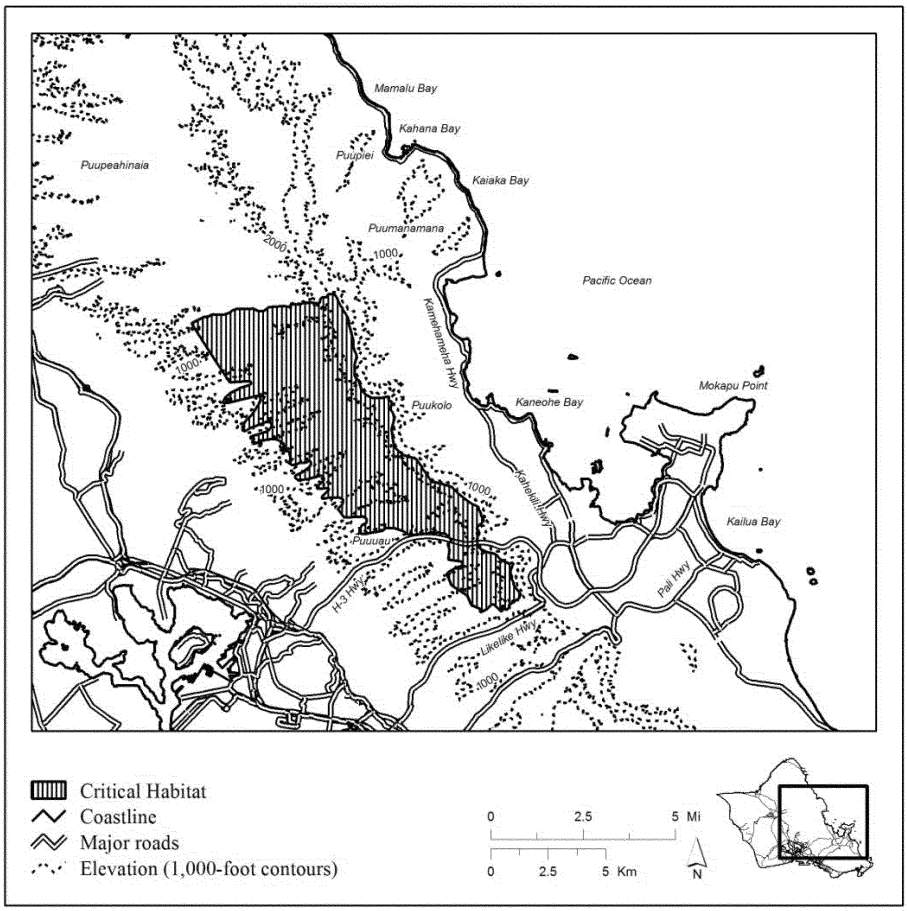
(23) Oahu—Lowland Wet—Unit 9 (15,728 ac; 6,365 ha).

(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*, *Huperzia nutans*, *Isodendrion longifolium*, *Labordia cyrtandrae*, *Lobelia gaudichaudii* ssp. *koolauensis*, *Lobelia oahuensis*, *Melicope hiiakae*, *Melicope lydgatei*, *Myrsine juddii*, *Phyllostegia hirsuta*, *Phyllostegia parviflora* var. *parviflora*, *Plantago princeps* var.

longibracteata, *Plantago princeps* var. *princeps*, *Platanthera holochila*, *Platydesma cornuta* var. *cornuta*, *Psychotria hexandra* ssp. *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



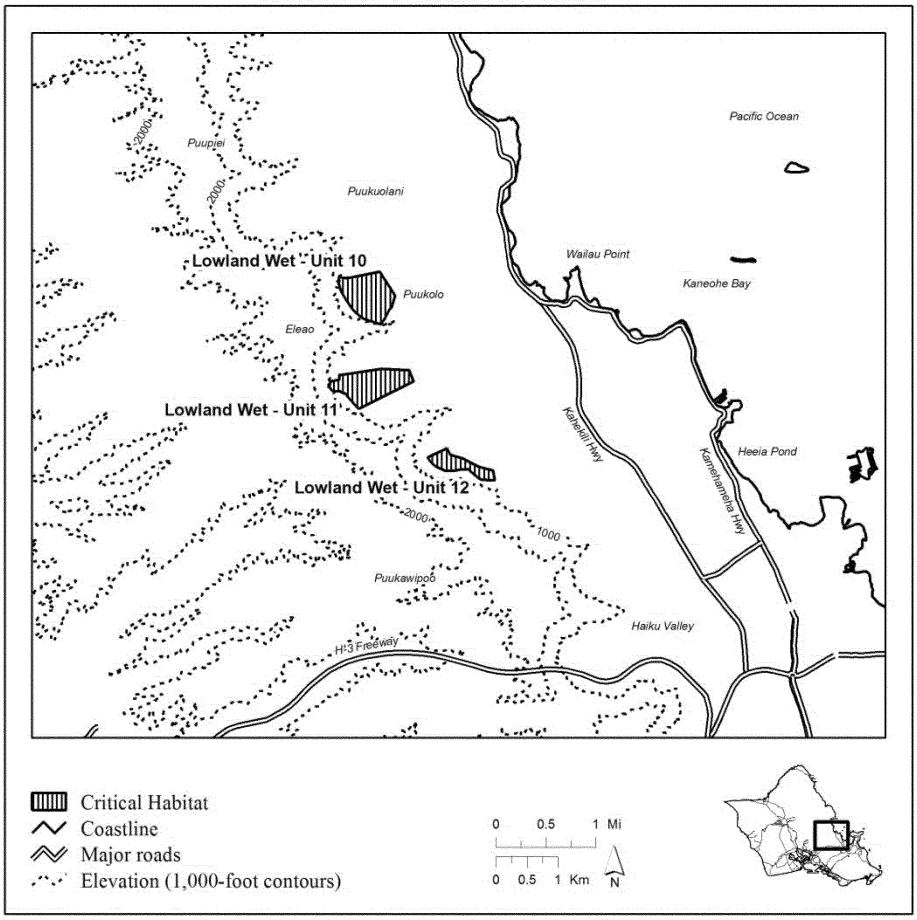
(24) Oahu—Lowland Wet—Unit 10 (124 ac; 50 ha), Oahu—Lowland Wet—Unit 11 (124 ac; 50 ha), and Oahu—Lowland Wet—Unit 12 (53 ac; 21 ha).

(i) These units are critical habitat for *Adenophorus periens*, *Chamaesyce rockii*, *Cyanea acuminata*, *Cyanea calycina*, *Cyanea 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*, *Huperzia*

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



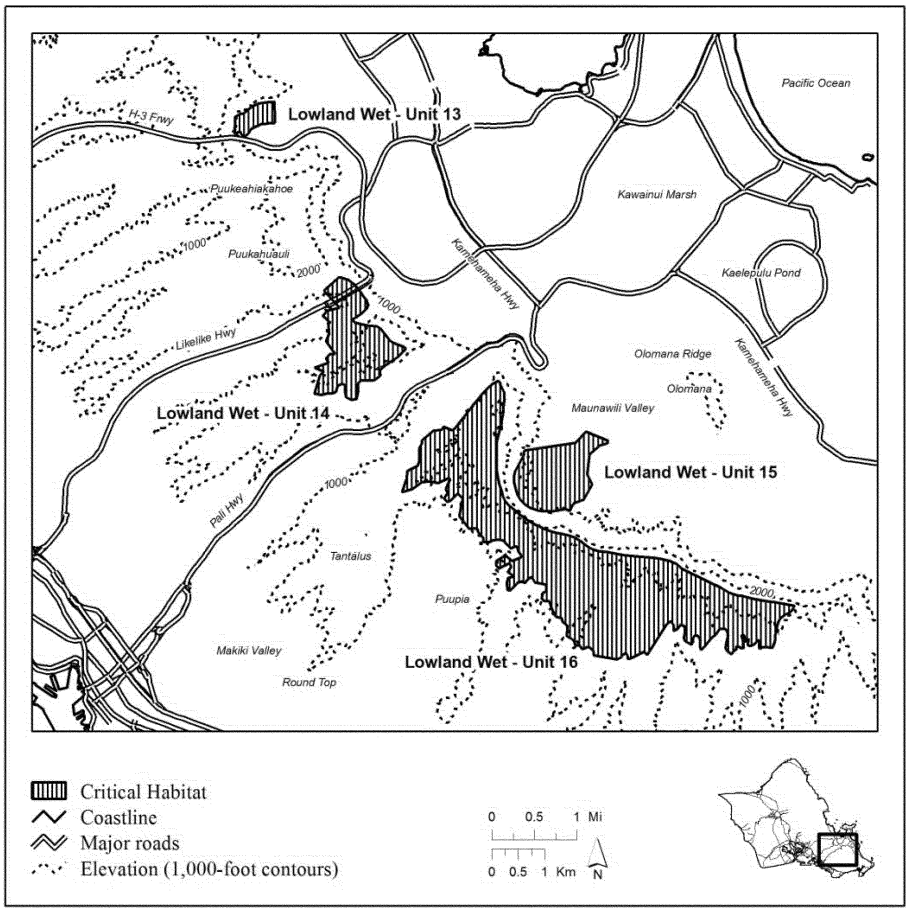
(25) Oahu—Lowland Wet—Unit 13 (75 ac; 30 ha), Oahu—Lowland Wet—Unit 14 (478 ac; 193 ha), Oahu—Lowland Wet—Unit 15 (407 ac; 165 ha), and Oahu—Lowland Wet—Unit 16 (2,507 ac; 1,014 ha).

(i) These units are critical habitat for *Adenophorus periens*, *Chamaesyce rockii*,

Cyanea acuminata, *Cyanea calycina*, *Cyanea crispa*, *Cyanea grimesiana* ssp. *grimesiana*, *Cyanea humboldtiana*, *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*, *Huperzia nutans*, *Isodendrion longifolium*, *Labordia cyrtandrae*, *Lobelia gaudichaudii* ssp. *koolauensis*, *Lobelia oahuensis*, *Melicope hiiakae*, *Melicope lydgatei*, *Myrsine juddii*, *Phyllostegia hirsuta*, *Phyllostegia parviflora* var. *parviflora*, *Plantago princeps* var. *longibracteata*, *Plantago princeps* var. *princeps*, *Platanthera holochila*, *Platydesma cornuta* var. *cornuta*, *Psychotria hexandra* ssp. *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

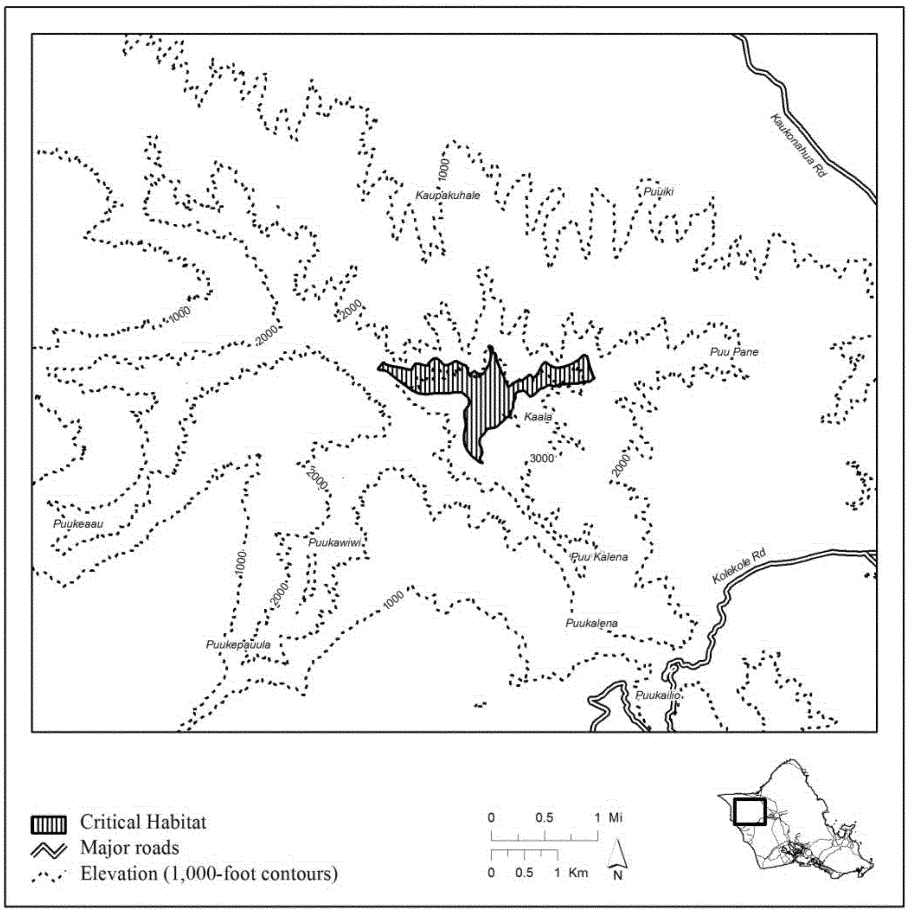


(26) Oahu—Montane Wet—Unit 1 (370 ac; 150 ha).

(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



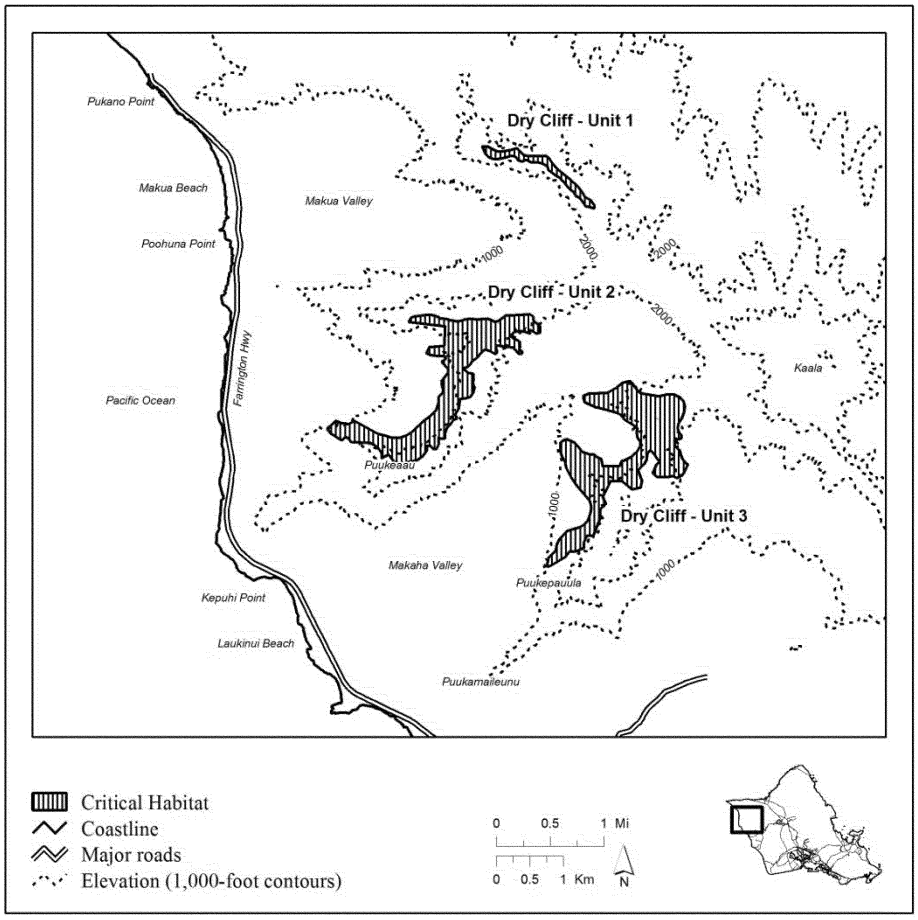
(27) Oahu—Dry Cliff—Unit 1 (49 ac; 20 ha), Oahu—Dry Cliff—Unit 2 (412 ac; 167 ha), and Oahu—Dry Cliff—Unit 3 (450 ac; 182 ha).

(i) These units are critical habitat for *Abutilon sandwicense*, *Achyranthes splendens* var. *rotundata*, *Alectryon macrococcus*, *Bonamia menziesii*, *Cenchrus agrimonioides*, *Chamaesyce herbstii*, *Chamaesyce kuwaleana*, *Cyanea grimesiana* ssp. *obatae*, *Cyrtandra dentata*, *Diellia falcata*, *Diellia unisora*, *Dubautia herbstobatae*, *Eragrostis fosbergii*, *Flueggea neowawraea*, *Gouania meyenii*, *Gouania vitifolia*, *Isodendrion laurifolium*, *Isodendrion pyrifolium*, *Kadua degeneri*, *Kadua parvula*, *Korthalsella degeneri*, *Lepidium arbuscula*, *Lipochaeta lobata* var. *leptophylla*,

Lobelia niihauensis, *Melanthera tenuifolia*, *Melicope makahae*, *Melicope saint-johnii*, *Neraudia angulata*, *Nototrichium humile*, *Peucedanum sandwicense*, *Phyllostegia kaalaensis*, *Plantago princeps* var. *princeps*, *Platydesma cornuta* var. *decurrens*, *Pleomele forbesii*, *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 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



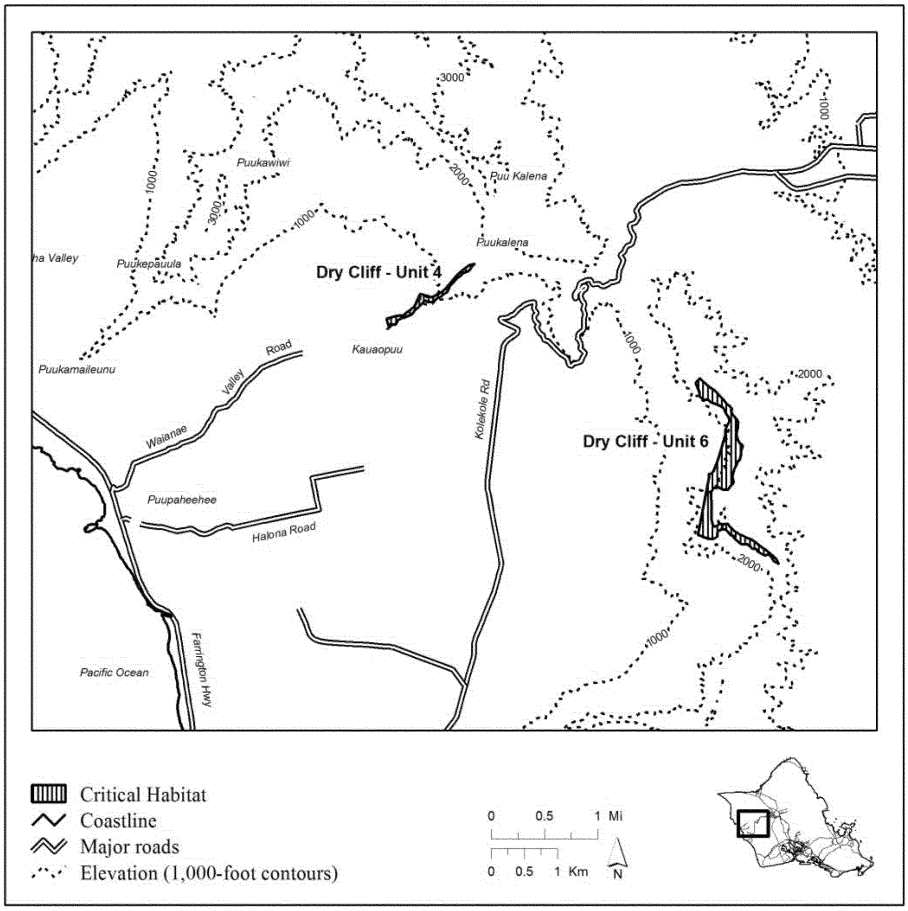
(28) Oahu—Dry Cliff—Unit 4 (24 ac; 10 ha) and Oahu—Dry Cliff—Unit 6 (149 ac; 60 ha).

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

dentata, *Diellia falcata*, *Diellia unisora*, *Dubautia herbstobatae*, *Eragrostis fosbergii*, *Flueggea neowawraea*, *Gouania meyenii*, *Gouania vitifolia*, *Isodendrion laurifolium*, *Isodendrion pyrifolium*, *Kadua degeneri*, *Kadua parvula*, *Korthalsella degeneri*, *Lepidium arbuscula*, *Lipochaeta lobata* var. *leptophylla*, *Lobelia niihauensis*, *Melanthera tenuifolia*, *Melicope makahae*, *Melicope saint-johnii*, *Neraudia angulata*, *Nototrichium humile*, *Peucedanum sandwicense*, *Phyllostegia kaalaensis*, *Plantago princeps* var. *princeps*, *Platydesma cornuta* var. *decurrens*, *Pleomele forbesii*, *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

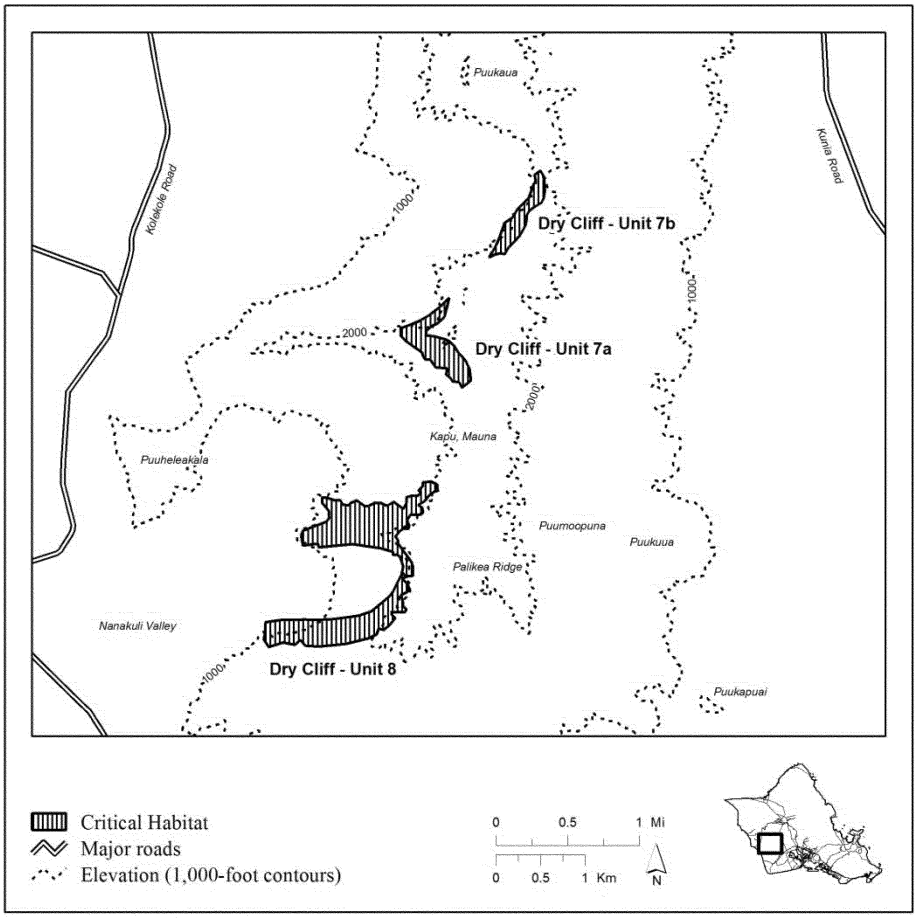


(29) Oahu—Dry Cliff—Unit 7a (68 ac; 27 ha), Oahu—Dry Cliff—Unit 7b (38 ac; 16 ha), and Oahu—Dry Cliff—Unit 8 (259 ac; 105 ha).

(i) These units are critical habitat for *Abutilon sandwicense*, *Achyranthes splendens* var. *rotundata*, *Alectryon macrococcus*, *Bonamia menziesii*, *Cenchrus agrimonioides*, *Chamaesyce herbstii*, *Chamaesyce kuwaleana*, *Cyanea grimesiana* ssp. *obatae*, *Cyrtandra dentata*, *Diellia falcata*, *Diellia unisora*, *Dubautia herbstobatae*, *Eragrostis fosbergii*, *Flueggea neowawraea*, *Gouania meyenii*, *Gouania vitifolia*, *Isodendrion laurifolium*, *Isodendrion pyrifolium*, *Kadua degeneri*, *Kadua parvula*, *Korthalsella degeneri*, *Lepidium arbuscula*, *Lipochaeta lobata* var. *leptophylla*, *Lobelia niihauensis*, *Melanthera tenuifolia*, *Melicope makahae*, *Melicope saint-johnii*, *Neraudia angulata*, *Nototrichium humile*, *Peucedanum sandwicense*, *Phyllostegia kaalaensis*, *Plantago princeps* var. *princeps*, *Platydesma cornuta* var. *decurrens*, *Pleomele forbesii*, *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

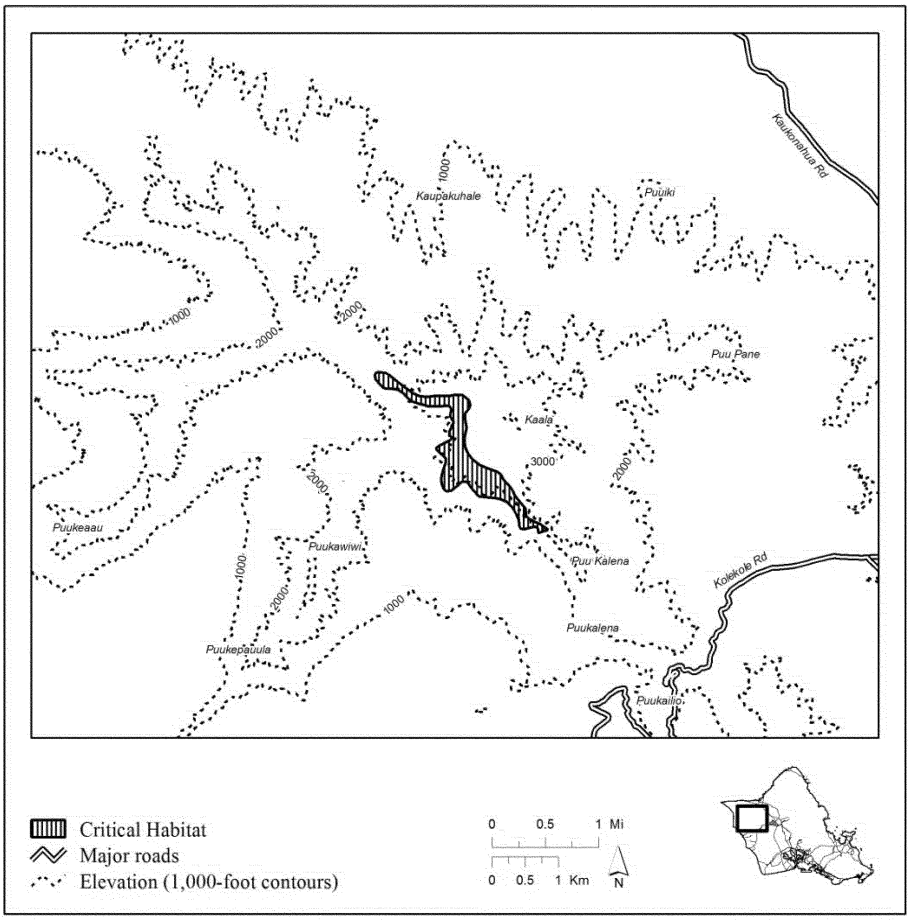


(30) Oahu—Wet Cliff—Unit 1 (235 ac; 95 ha).

(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

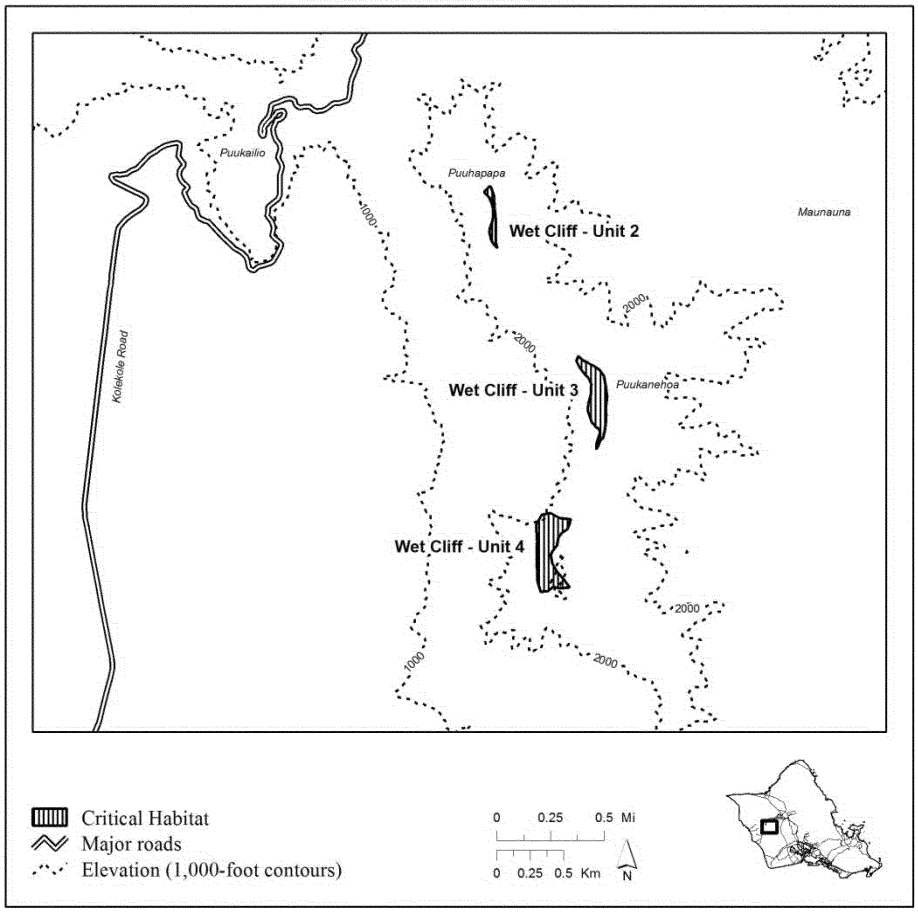


(31) Oahu—Wet Cliff—Unit 2 (3 ac; 1 ha), Oahu—Wet Cliff—Unit 3 (16 ac; 6 ha), and Oahu—Wet Cliff—Unit 4 (23 ac; 9 ha).

(i) These units are critical habitat for *Cyanea acuminata*, *Cyanea calycina*, *Labordia 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

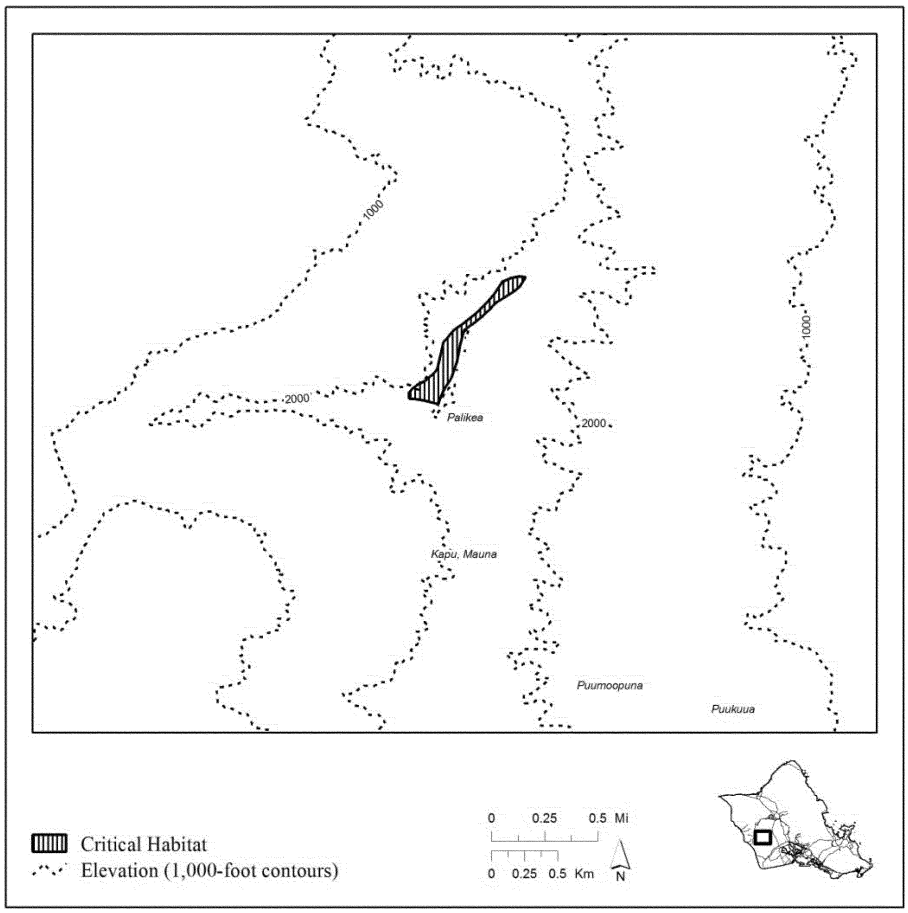


(32) Oahu—Wet Cliff—Unit 5 (31 ac; 13 ha).

(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

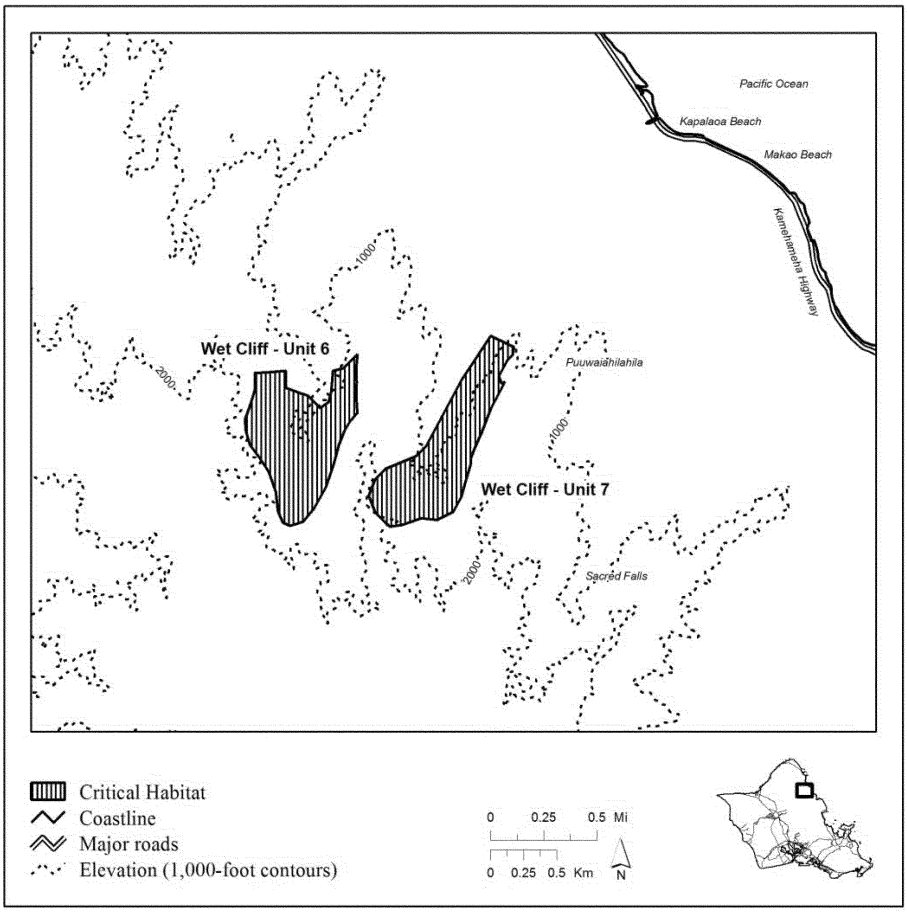


(33) Oahu—Wet Cliff—Unit 6 (151 ac; 61 ha) and Oahu—Wet Cliff—Unit 7 (144 ac; 58 ha).

(i) These units are critical habitat for *Adenophorus periens*, *Chamaesyce deppeana*, *Chamaesyce rockii*, *Cyanea acuminata*, *Cyanea calycina*, *Cyanea crispa*, *Cyanea humboldtiana*, *Cyanea purpurellifolia*, *Cyanea st.-johnii*, *Cyanea truncata*, *Cyrtandra kaulantha*, *Cyrtandra sessilis*, *Cyrtandra subumbellata*, *Cyrtandra viridiflora*, *Huperzia nutans*, *Labordia cyrtandrae*, *Lobelia oahuensis*, *Lysimachia filifolia*, *Phyllostegia hirsuta*, *Phyllostegia parviflora* var. *parviflora*, *Plantago princeps* var. *princeps*, *Psychotria hexandra* ssp. *oahuensis*, *Pteralyxia 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

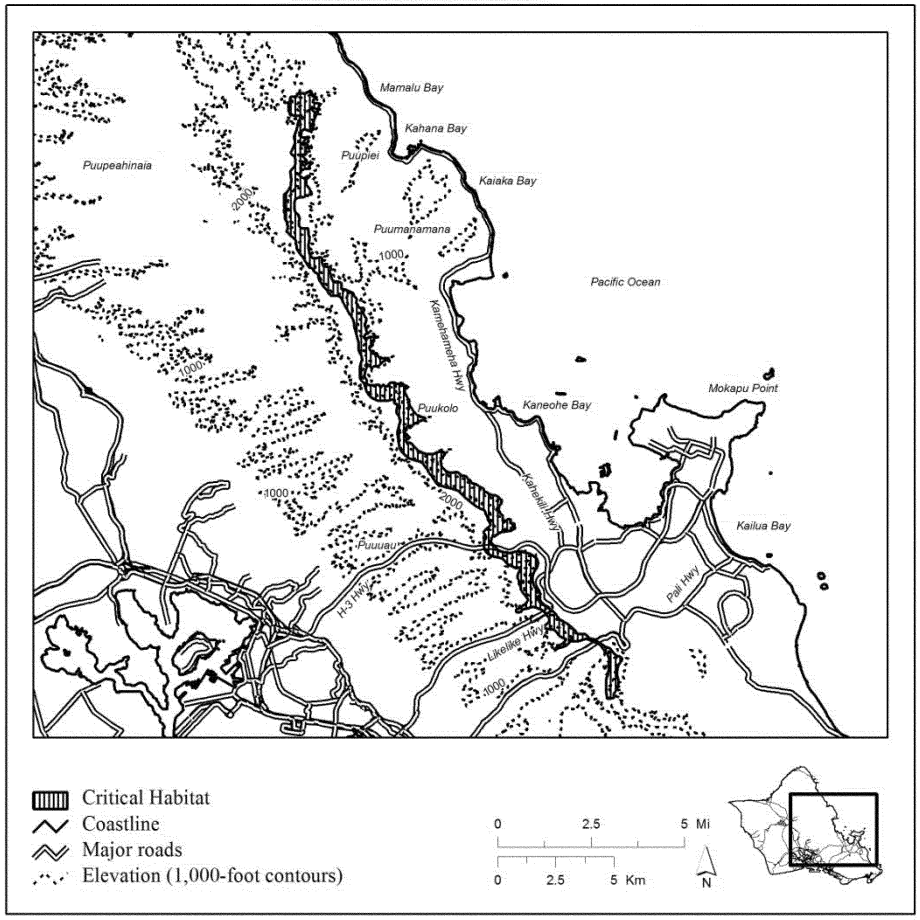


(34) Oahu—Wet Cliff—Unit 8 (4,649 ac; 1,881 ha).

(i) This unit is critical habitat for *Adenophorus periens*, *Chamaesyce deppeana*, *Chamaesyce rockii*, *Cyanea acuminata*, *Cyanea calycina*, *Cyanea crispa*, *Cyanea humboldtiana*, *Cyanea purpurellifolia*, *Cyanea st.-johnii*, *Cyanea truncata*, *Cyrtandra kaulantha*, *Cyrtandra sessilis*, *Cyrtandra subumbellata*, *Cyrtandra viridiflora*, *Huperzia nutans*, *Labordia cyrtandrae*, *Lobelia oahuensis*, *Lysimachia filifolia*, *Phyllostegia hirsuta*, *Phyllostegia parviflora* var. *parviflora*, *Plantago princeps* var. *princeps*, *Psychotria hexandra* ssp. *oahuensis*, *Pteralyxia 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		
	Achyranthes splendens var. *rotundata* ...	*Achyranthes splendens* var. *rotundata*
		Bidens amplectens
		Centaurium sebaeoides
	Chamaesyce celastroides var. *kaenana*	*Chamaesyce celastroides* var. *kaenana*
		Schiedea kealiae
	Sesbania tomentosa	*Sesbania tomentosa*
		Vigna o-wahuensis
Oahu—Coastal—Unit 2		
		Centaurium sebaeoides
		Chamaesyce kuwaleana
		Sesbania tomentosa
		Vigna o-wahuensis
Oahu—Coastal—Unit 3		

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

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

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

Unit name	Species occupied	Species unoccupied
	Achyranthes splendens var. *rotundata* ...	*Achyranthes splendens* var. *rotundata* *Bidens amplectens* *Centaurium sebaeoides* *Chamaesyce celastroides* var. *kaenana* *Schiedea kealiae* *Sesbania tomentosa* *Vigna o-wahuensis*
Oahu—Lowland Dry—Unit 1		
		Achyranthes splendens var. *rotundata*
	Bidens amplectens	*Bidens amplectens* *Bonamia menziesii* *Chamaesyce celastroides* var. *kaenana* *Euphorbia haeleeleana* *Gouania meyenii* *Gouania vitifolia*
	Hibiscus brackenridgei	*Hibiscus brackenridgei* *Isodendrion pyrifolium* *Melanthera tenuifolia* *Neraudia angulata*
	Nototrichium humile	*Nototrichium humile* *Pleomele forbesii* *Schiedea hookeri*
	Schiedea kealiae	*Schiedea kealiae* *Spermolepis hawaiiensis*
Oahu—Lowland Dry—Unit 2		
		Achyranthes splendens var. *rotundata* *Bidens amplectens*
	Bonamia menziesii	*Bonamia menziesii* *Chamaesyce celastroides* var. *kaenana* *Euphorbia haeleeleana* *Gouania meyenii* *Gouania vitifolia* *Hibiscus brackenridgei* *Isodendrion pyrifolium*
	Melanthera tenuifolia	*Melanthera tenuifolia* *Neraudia angulata*
	Nototrichium humile	*Nototrichium humile*
	Pleomele forbesii	*Pleomele forbesii* *Schiedea hookeri* *Schiedea kealiae* *Spermolepis hawaiiensis*
Oahu—Lowland Dry—Unit 6		
	Doryopteris takeuchii	*Doryopteris takeuchii* *Gouania meyenii*
	Spermolepis hawaiiensis	*Spermolepis hawaiiensis*
Oahu—Lowland Dry—Unit 7		
	Cyperus trachysanthos	*Cyperus trachysanthos* *Doryopteris takeuchii* *Gouania meyenii* *Marsilea villosa* *Spermolepis hawaiiensis*
Oahu—Lowland Dry—Unit 8		
		Achyranthes splendens var. *rotundata* *Bidens amplectens* *Bonamia menziesii* *Chamaesyce celastroides* var. *kaenana* *Chamaesyce skottsbergii* var. *skottsbergii* *Euphorbia haeleeleana* *Gouania meyenii* *Gouania vitifolia* *Hibiscus brackenridgei* *Isodendrion pyrifolium* *Melanthera tenuifolia* *Neraudia angulata* *Nototrichium humile* *Schiedea hookeri* *Schiedea kealiae* *Spermolepis hawaiiensis*
Oahu—Lowland Dry—Unit 9		
	Achyranthes splendens var. *rotundata* ...	*Achyranthes splendens* var. *rotundata* *Bidens amplectens*

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

Unit name	Species occupied	Species unoccupied
		Bonamia menziesii
		Chamaesyce celastroides var. *kaenana*
		Chamaesyce skottsbergii var. *skottsbergii*
		Euphorbia haeleeleana
		Gouania meyenii
		Gouania vitifolia
		Hibiscus brackenridgei
		Isodendrion pyrifolium
		Melanthera tenuifolia
		Neraudia angulata
		Nototrichium humile
		Schiedea hookeri
		Schiedea kealiae
		Spermolepis hawaiiensis
Oahu—Lowland Dry—Unit 10		
		Achyranthes splendens var. *rotundata*
		Bidens amplectens
		Bonamia menziesii
		Chamaesyce celastroides var. *kaenana*
	Chamaesyce skottsbergii var. *skottsbergii.*	*Chamaesyce skottsbergii* var. *skottsbergii*
		Euphorbia haeleeleana
		Gouania meyenii
		Gouania vitifolia
		Hibiscus brackenridgei
		Isodendrion pyrifolium
		Melanthera tenuifolia
		Neraudia angulata
		Nototrichium humile
		Schiedea hookeri
		Schiedea kealiae
		Spermolepis hawaiiensis
Oahu—Lowland Dry—Unit 11		
		Achyranthes splendens var. *rotundata*
		Bidens amplectens
		Bonamia menziesii
		Chamaesyce celastroides var. *kaenana*
	Chamaesyce skottsbergii var. *skottsbergii.*	*Chamaesyce skottsbergii* var. *skottsbergii*
		Euphorbia haeleeleana
		Gouania meyenii
		Gouania vitifolia
		Hibiscus brackenridgei
		Isodendrion pyrifolium
		Melanthera tenuifolia
		Neraudia angulata
		Nototrichium humile
		Schiedea hookeri
		Schiedea kealiae
		Spermolepis hawaiiensis
Oahu—Lowland Mesic—Unit 1		
	Abutilon sandwicense	*Abutilon sandwicense*
	Alectryon macrococcus	*Alectryon macrococcus*
	Bonamia menziesii	*Bonamia menziesii*
	Cenchrus agrimonioides	*Cenchrus agrimonioides*
		Chamaesyce celastroides var. *kaenana*
	Chamaesyce herbstii	*Chamaesyce herbstii*
	Colubrina oppositifolia	*Colubrina oppositifolia*
	Ctenitis squamigera	*Ctenitis squamigera*
	Cyanea acuminate	*Cyanea acuminata*
	Cyanea calycina	*Cyanea calycina*
	Cyanea grimesiana ssp. *Grimesiana*	*Cyanea grimesiana* ssp. *grimesiana*
	Cyanea grimesiana ssp. *Obatae*	*Cyanea grimesiana* ssp. *obatae*
	Cyanea longiflora	*Cyanea longiflora*
		Cyanea pinnatifida
	Cyanea superba	*Cyanea superba*
		Cyperus pennatiformis
	Cyrtandra dentate	*Cyrtandra dentata*
	Delissea subcordata	*Delissea subcordata*
	Diellia falcate	*Diellia falcata*
		Diellia unisora

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

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

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

Unit name	Species occupied	Species unoccupied
	Gardenia mannii	*Gardenia mannii*
		Gouania meyenii
		Gouania vitifolia
		Hesperomannia arborescens
		Hesperomannia arbuscula
		Hibiscus brackenridgei
		Isodendrion laurifolium
		Isodendrion longifolium
		Kadua coriacea
		Kadua degeneri
		Kadua parvula
		Labordia cyrtandrae
		Lobelia niihauensis
		Melanthera tenuifolia
		Melicope makahae
		Melicope pallida
		Melicope saint-johnii
		Neraudia angulata
		Nototrichium humile
	Phyllostegia hirsute	*Phyllostegia hirsuta*
	Phyllostegia kaalaensis	*Phyllostegia kaalaensis*
	Phyllostegia mollis	*Phyllostegia mollis*
		Phyllostegia parviflora
		Plantago princeps
	Platydesma cornuta var. *decurrens*	*Platydesma cornuta* var. *decurrens*
	Pleomele forbesii	*Pleomele forbesii*
	Pteralyxia macrocarpa	*Pteralyxia macrocarpa*
		Sanicula mariversa
	Schiedea hookeri	*Schiedea hookeri*
	Schiedea kaalae	*Schiedea kaalae*
		Schiedea nuttallii
		Schiedea obovata
		Silene perlmanii
	Solanum sandwicense	*Solanum sandwicense*
	Stenogyne kanehoana	*Stenogyne kanehoana*
		Tetramolopium lepidotum ssp. *lepidotum*
	Urera kaalae	*Urera kaalae*
		Viola chamissoniana ssp. *chamissoniana*
Oahu—Lowland Mesic—Unit 3		
		Abutilon sandwicense
	Alectryon macrococcus	*Alectryon macrococcus*
		Bonamia menziesii
	Cenchrus agrimonioides	*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 pennatiformis
		Cyrtandra dentata
	Delissea subcordata	*Delissea subcordata*
	Diellia falcate	*Diellia falcata*
	Diellia unisora	*Diellia unisora*
		Diplazium molokaiense
		Dubautia herbstobatae
		Eragrostis fosbergii
		Eugenia koolauensis
		Euphorbia haeleeleana
		Flueggea neowawraea
		Gardenia mannii
		Gouania meyenii
		Gouania vitifolia
		Hesperomannia arborescens
	Hesperomannia arbuscula	*Hesperomannia arbuscula*
		Hibiscus brackenridgei
		Isodendrion laurifolium

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

Unit name	Species occupied	Species unoccupied
		Isodendrion longifolium
		Kadua coriacea
		Kadua degeneri
		Kadua parvula
		Labordia cyrtandrae
		Lobelia niihauensis
		Melanthera tenuifolia
		Melicope makahae
		Melicope pallida
	Melicope saint-johnii	*Melicope saint-johnii*
		Neraudia angulata
		Nototrichium humile
		Phyllostegia hirsuta
		Phyllostegia kaalaensis
	Phyllostegia mollis	*Phyllostegia mollis*
	Phyllostegia parviflora	*Phyllostegia parviflora*
	Plantago princeps	*Plantago princeps*
		Platydesma cornuta var. *decurrens*
	Pleomele forbesii	*Pleomele forbesii*
	Pteralyxia macrocarpa	*Pteralyxia macrocarpa*
		Sanicula mariversa
		Schiedea hookeri
	Schiedea kaalae	*Schiedea kaalae*
		Schiedea nuttallii
		Schiedea obovata
	Silene perlmanii	*Silene perlmanii*
		Solanum sandwicense
		Stenogyne kanehoana
		Tetramolopium lepidotum ssp. *lepidotum*
	Urera kaalae	*Urera kaalae*
		Viola chamissoniana ssp. *chamissoniana*
Oahu—Lowland Mesic—Unit 4		
		Alectryon macrococcus
		Bonamia menziesii
		Chamaesyce celastroides var. *kaenana*
		Ctenitis squamigera
		Cyanea acuminata
		Cyanea calycina
		Cyanea crispa
		Cyanea grimesiana ssp. *grimesiana*
		Cyanea lanceolata
		Cyanea longiflora
		Cyanea truncata
		Cyrtandra dentata
		Cyrtandra polyantha
		Delissea subcordata
		Diellia erecta
		Diellia falcata
		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
		Plantago princeps
		Pleomele forbesii
		Pteralyxia macrocarpa
		Schiedea kaalae
		Schiedea nuttallii
		Solanum sandwicense
		Tetraplasandra gymnocarpa
		Tetraplasandra lydgatei
Oahu—Lowland Mesic—Unit 5		
		Alectryon macrococcus
		Bonamia menziesii

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

Unit name	Species occupied	Species unoccupied
		Chamaesyce celastroides var. *kaenana*
		Ctenitis squamigera
		Cyanea acuminata
		Cyanea calycina
		Cyanea crispa
		Cyanea grimesiana ssp. *grimesiana*
		Cyanea lanceolata
		Cyanea longiflora
		Cyanea truncata
		Cyrtandra dentata
		Cyrtandra polyantha
		Delissea subcordata
		Diellia erecta
		Diellia falcata
		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
		Plantago princeps
		Pleomele forbesii
		Pteralyxia macrocarpa
		Schiedea kaalae
		Schiedea nuttallii
		Solanum sandwicense
		Tetraplasandra gymnocarpa
		Tetraplasandra lydgatei
Oahu—Lowland Mesic—Unit 6		
		Alectryon macrococcus
		Bonamia menziesii
		Chamaesyce celastroides var. *kaenana*
		Ctenitis squamigera
	Cyanea acuminate	*Cyanea acuminata*
		Cyanea calycina
	Cyanea crispa	*Cyanea crispa*
		Cyanea grimesiana ssp. *grimesiana*
		Cyanea lanceolata
		Cyanea longiflora
	Cyanea truncate	*Cyanea truncata*
		Cyrtandra dentata
		Cyrtandra polyantha
		Delissea subcordata
		Diellia erecta
		Diellia falcata
		Eugenia koolauensis
	Gardenia mannii	*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
		Plantago princeps
		Pleomele forbesii
	Pteralyxia macrocarpa	*Pteralyxia macrocarpa*
	Schiedea kaalae	*Schiedea kaalae*
		Schiedea nuttallii
		Solanum sandwicense
		Tetraplasandra gymnocarpa

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

Unit name	Species occupied	Species unoccupied
		Tetraplasandra lydgatei
Oahu—Lowland Mesic—Unit 7		
		Alectryon macrococcus
	Bonamia menziesii	*Bonamia menziesii*
		Chamaesyce celastroides var. *kaenana*
		Ctenitis squamigera
	Cyanea acuminate	*Cyanea acuminata*
		Cyanea calycina
		Cyanea crispa
	Cyanea grimesiana ssp. *Grimesiana*	*Cyanea grimesiana* ssp. *grimesiana*
	Cyanea lanceolata	*Cyanea lanceolata*
		Cyanea longiflora
		Cyanea truncata
		Cyrtandra dentata
	Cyrtandra polyantha	*Cyrtandra polyantha*
		Delissea subcordata
	Diellia erecta	*Diellia erecta*
		Diellia falcata
		Eugenia koolauensis
		Gardenia mannii
		Hesperomannia arborescens
		Isodendrion laurifolium
		Isodendrion longifolium
		Kadua coriacea
		Labordia cyrtandrae
	Lobelia monostachya	*Lobelia monostachya*
		Melicope lydgatei
		Melicope saint-johnii
		Phyllostegia hirsuta
		Phyllostegia mollis
		Phyllostegia parviflora
		Plantago princeps
	Pleomele forbesii	*Pleomele forbesii*
	Pteralyxia macrocarpa	*Pteralyxia macrocarpa*
		Schiedea kaalae
		Schiedea nuttallii
		Solanum sandwicense
		Tetraplasandra gymnocarpa
	Tetraplasandra lydgatei	*Tetraplasandra lydgatei*
Oahu—Lowland Wet—Unit 1		
		Cyanea acuminata
		Cyanea calycina
		Cyanea grimesiana ssp. *grimesiana*
		Cyanea grimesiana ssp. *obatae*
		Cyrtandra dentata
		Diplazium molokaiense
		Gardenia mannii
	Gouania vitifolia	*Gouania vitifolia*
		Hesperomannia arbuscula
		Isodendrion longifolium
		Labordia cyrtandrae
		Lobelia oahuensis
		Phyllostegia hirsuta
		Phyllostegia mollis
		Plantago princeps
		Pteralyxia macrocarpa
	Schiedea hookeri	*Schiedea hookeri*
		Schiedea kaalae
	Urera kaalae	*Urera kaalae*
Oahu—Lowland Wet—Unit 2		
		Cyanea acuminata
		Cyanea calycina
		Cyanea grimesiana ssp. *grimesiana*
		Cyanea grimesiana ssp. *obatae*
		Cyrtandra dentata
		Diplazium molokaiense
		Gardenia mannii
		Gouania vitifolia
		Hesperomannia arbuscula
		Isodendrion longifolium
		Labordia cyrtandrae
		Lobelia oahuensis

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

Unit name	Species occupied	Species unoccupied
	Phyllostegia hirsute	*Phyllostegia hirsuta*
	Phyllostegia mollis	*Phyllostegia mollis*
		Plantago princeps
		Pteralyxia macrocarpa
		Schiedea hookeri
		Schiedea kaalae
	Urera kaalae	*Urera kaalae*
Oahu—Lowland Wet—Unit 3		
		Cyanea acuminata
		Cyanea calycina
		Cyanea grimesiana ssp. *grimesiana*
		Cyanea grimesiana ssp. *obatae*
		Cyrtandra dentata
		Diplazium molokaiense
		Gardenia mannii
		Gouania vitifolia
		Hesperomannia arbuscula
		Isodendrion longifolium
		Labordia cyrtandrae
		Lobelia oahuensis
	Phyllostegia hirsute	*Phyllostegia hirsuta*
	Phyllostegia mollis	*Phyllostegia mollis*
		Plantago princeps
		Pteralyxia macrocarpa
	Schiedea hookeri	*Schiedea hookeri*
		Schiedea kaalae
		Urera kaalae
Oahu—Lowland Wet—Unit 4		
		Cyanea acuminata
		Cyanea calycina
		Cyanea grimesiana ssp. *grimesiana*
		Cyanea grimesiana ssp. *obatae*
		Cyrtandra dentata
		Diplazium molokaiense
		Gardenia mannii
		Gouania vitifolia
		Hesperomannia arbuscula
		Isodendrion longifolium
		Labordia cyrtandrae
		Lobelia oahuensis
		Phyllostegia hirsuta
	Phyllostegia mollis	*Phyllostegia mollis*
		Plantago princeps
		Pteralyxia macrocarpa
		Schiedea hookeri
		Schiedea kaalae
		Urera kaalae
Oahu—Lowland Wet—Unit 5		
		Cyanea acuminata
	Cyanea calycina	*Cyanea calycina*
		Cyanea grimesiana ssp. *grimesiana*
	Cyanea grimesiana ssp. *Obatae*	*Cyanea grimesiana* ssp. *obatae*
		Cyrtandra dentata
		Diplazium molokaiense
		Gardenia mannii
		Gouania vitifolia
	Hesperomannia arbuscula	*Hesperomannia arbuscula*
		Isodendrion longifolium
		Labordia cyrtandrae
		Lobelia oahuensis
		Phyllostegia hirsuta
		Phyllostegia mollis
		Plantago princeps
		Pteralyxia macrocarpa
		Schiedea hookeri
	Schiedea kaalae	*Schiedea kaalae*
		Urera kaalae
Oahu—Lowland Wet—Unit 6		
		Adenophorus periens
		Chamaesyce rockii
		Cyanea acuminata
		Cyanea calycina

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

Unit name	Species occupied	Species unoccupied
		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	*Hesperomannia arborescens*
		Huperzia nutans
		Isodendrion longifolium
		Labordia cyrtandrae
		Lobelia gaudichaudii ssp. *koolauensis*
		Lobelia oahuensis
		Melicope hiiakae
		Melicope lydgatei
		Myrsine juddii
		Phyllostegia hirsuta
		Phyllostegia parviflora
		Plantago princeps
		Platanthera holochila
		Platydesma cornuta var. *cornuta*
		Psychotria hexandra ssp. *oahuensis*
		Pteralyxia macrocarpa
		Pteris lidgatei
		Sanicula purpurea
		Tetraplasandra gymnocarpa
		Trematolobelia singularis
		Viola oahuensis
		Zanthoxylum oahuense
Oahu—Lowland Wet—Unit 7		
		Adenophorus periens
	Chamaesyce rockii	*Chamaesyce rockii*
	Cyanea acuminate	*Cyanea acuminata*
	Cyanea calycina	*Cyanea calycina*
		Cyanea crispa
		Cyanea grimesiana ssp. *grimesiana*
	Cyanea humboldtiana	*Cyanea humboldtiana*
		Cyanea koolauensis
		Cyanea lanceolata
	Cyanea purpurellifolia	*Cyanea purpurellifolia*
		Cyanea st.-johnii
	Cyanea truncate	*Cyanea truncata*
		Cyrtandra dentata
		Cyrtandra gracilis
		Cyrtandra kaulantha
		Cyrtandra polyantha
		Cyrtandra sessilis
		Cyrtandra subumbellata
	Cyrtandra viridiflora	*Cyrtandra viridiflora*
		Cyrtandra waiolani
	Gardenia mannii	*Gardenia mannii*
	Hesperomannia arborescens	*Hesperomannia arborescens*
	Huperzia nutans	*Huperzia nutans*
		Isodendrion longifolium
		Labordia cyrtandrae
		Lobelia gaudichaudii ssp. *koolauensis*
		Lobelia oahuensis
		Melicope hiiakae
		Melicope lydgatei
	Myrsine juddii	*Myrsine juddii*
	Phyllostegia hirsute	*Phyllostegia hirsuta*
		Phyllostegia parviflora

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

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

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

Unit name	Species occupied	Species unoccupied
		Cyrtandra sessilis
		Cyrtandra subumbellata
	Cyrtandra viridiflora	*Cyrtandra viridiflora*
		Cyrtandra waiolani
	Gardenia mannii	*Gardenia mannii*
	Hesperomannia arborescens	*Hesperomannia arborescens*
		Huperzia nutans
		Isodendrion longifolium
	Labordia cyrtandrae	*Labordia cyrtandrae*
		Lobelia gaudichaudii ssp. *koolauensis*
	Lobelia oahuensis	*Lobelia oahuensis*
	Melicope hiiakae	*Melicope hiiakae*
	Melicope lydgatei	*Melicope lydgatei*
		Myrsine juddii
	Phyllostegia hirsute	*Phyllostegia hirsuta*
	Phyllostegia parviflora	*Phyllostegia parviflora*
	Plantago princeps	*Plantago princeps*
		Platanthera holochila
	Platydesma cornuta var. *cornuta*	*Platydesma cornuta* var. *cornuta*
		Psychotria hexandra ssp. *oahuensis*
		Pteralyxia macrocarpa
	Pteris lidgatei	*Pteris lidgatei*
		Sanicula purpurea
	Tetraplasandra gymnocarpa	*Tetraplasandra gymnocarpa*
		Trematolobelia singularis
	Viola oahuensis	*Viola oahuensis*
	Zanthoxylum oahuense	*Zanthoxylum oahuense*
Oahu—Lowland Wet—Unit 10		
		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
		Huperzia nutans
		Isodendrion longifolium
		Labordia cyrtandrae
		Lobelia gaudichaudii ssp. *koolauensis*
		Lobelia oahuensis
		Melicope hiiakae
		Melicope lydgatei
		Myrsine juddii
		Phyllostegia hirsuta
		Phyllostegia parviflora
		Plantago princeps
		Platanthera holochila
		Platydesma cornuta var. *cornuta*
		Psychotria hexandra ssp. *oahuensis*
		Pteralyxia macrocarpa
		Pteris lidgatei
		Sanicula purpurea
		Tetraplasandra gymnocarpa
		Trematolobelia singularis
		Viola oahuensis
		Zanthoxylum oahuense
Oahu—Lowland Wet—Unit 11		

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

Unit name	Species occupied	Species unoccupied
		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* *Huperzia nutans* *Isodendrion longifolium* *Labordia cyrtandrae* *Lobelia gaudichaudii* ssp. *koolauensis* *Lobelia oahuensis* *Melicope hiiakae* *Melicope lydgatei* *Myrsine juddii* *Phyllostegia hirsuta* *Phyllostegia parviflora* *Plantago princeps* *Platanthera holochila* *Platydesma cornuta* var. *cornuta* *Psychotria hexandra* ssp. *oahuensis* *Pteralyxia macrocarpa* *Pteris lidgatei* *Sanicula purpurea* *Tetraplasandra gymnocarpa* *Trematolobelia singularis* *Viola oahuensis* *Zanthoxylum oahuense*
Oahu—Lowland Wet—Unit 12		*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* *Huperzia nutans* *Isodendrion longifolium* *Labordia cyrtandrae* *Lobelia gaudichaudii* ssp. *koolauensis* *Lobelia oahuensis* *Melicope hiiakae*

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

Unit name	Species occupied	Species unoccupied
		Melicope lydgatei *Myrsine juddii* *Phyllostegia hirsuta* *Phyllostegia parviflora* *Plantago princeps* *Platanthera holochila* *Platydesma cornuta* var. *cornuta* *Psychotria hexandra* ssp. *oahuensis* *Pteralyxia macrocarpa* *Pteris lidgatei* *Sanicula purpurea* *Tetraplasandra gymnocarpa* *Trematolobelia singularis* *Viola oahuensis* *Zanthoxylum oahuense*
Oahu—Lowland Wet—Unit 13		*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* *Huperzia nutans* *Isodendrion longifolium* *Labordia cyrtandrae* *Lobelia gaudichaudii* ssp. *koolauensis* *Lobelia oahuensis* *Melicope hiiakae* *Melicope lydgatei* *Myrsine juddii* *Phyllostegia hirsuta* *Phyllostegia parviflora* *Plantago princeps* *Platanthera holochila* *Platydesma cornuta* var. *cornuta* *Psychotria hexandra* ssp. *oahuensis* *Pteralyxia macrocarpa* *Pteris lidgatei* *Sanicula purpurea* *Tetraplasandra gymnocarpa* *Trematolobelia singularis* *Viola oahuensis* *Zanthoxylum oahuense*
Oahu—Lowland Wet—Unit 14	*Cyanea koolauensis*	*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*

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

Unit name	Species occupied	Species unoccupied
		Cyrtandra dentata *Cyrtandra gracilis* *Cyrtandra kaulantha* *Cyrtandra polyantha* *Cyrtandra sessilis* *Cyrtandra subumbellata* *Cyrtandra viridiflora* *Cyrtandra waiolani* *Gardenia mannii* *Hesperomannia arborescens* *Huperzia nutans* *Isodendrion longifolium* *Labordia cyrtandrae* *Lobelia gaudichaudii* ssp. *koolauensis* *Lobelia oahuensis* *Melicope hiiakae* *Melicope lydgatei* *Myrsine juddii* *Phyllostegia hirsuta* *Phyllostegia parviflora* *Plantago princeps* *Platanthera holochila* *Platydesma cornuta* var. *cornuta* *Psychotria hexandra* ssp. *oahuensis* *Pteralyxia macrocarpa* *Pteris lidgatei* *Sanicula purpurea* *Tetraplasandra gymnocarpa* *Trematolobelia singularis* *Viola oahuensis* *Zanthoxylum oahuense*
Oahu—Lowland Wet—Unit 15	*Cyanea crispa*	*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* *Huperzia nutans* *Isodendrion longifolium* *Labordia cyrtandrae* *Lobelia gaudichaudii* ssp. *koolauensis* *Lobelia oahuensis* *Melicope hiiakae* *Melicope lydgatei* *Myrsine juddii* *Phyllostegia hirsuta* *Phyllostegia parviflora* *Plantago princeps* *Platanthera holochila* *Platydesma cornuta* var. *cornuta* *Psychotria hexandra* ssp. *oahuensis* *Pteralyxia macrocarpa* *Pteris lidgatei* *Sanicula purpurea* *Tetraplasandra gymnocarpa*

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

Unit name	Species occupied	Species unoccupied
		Trematolobelia singularis
		Viola oahuensis
		Zanthoxylum oahuense
Oahu—Lowland Wet—Unit 16		
		Adenophorus periens
		Chamaesyce rockii
	Cyanea acuminate	*Cyanea acuminata*
	Cyanea calycina	*Cyanea calycina*
	Cyanea crispa	*Cyanea crispa*
		Cyanea grimesiana ssp. *grimesiana*
	Cyanea humboldtiana	*Cyanea humboldtiana*
	Cyanea koolauensis	*Cyanea koolauensis*
	Cyanea lanceolata	*Cyanea lanceolata*
		Cyanea purpurellifolia
	Cyanea st.-johnii	*Cyanea st.-johnii*
		Cyanea truncata
		Cyrtandra dentata
	Cyrtandra gracilis	*Cyrtandra gracilis*
		Cyrtandra kaulantha
	Cyrtandra polyantha	*Cyrtandra polyantha*
	Cyrtandra sessilis	*Cyrtandra sessilis*
		Cyrtandra subumbellata
		Cyrtandra viridiflora
		Cyrtandra waiolani
	Gardenia mannii	*Gardenia mannii*
	Hesperomannia arborescens	*Hesperomannia arborescens*
		Huperzia nutans
		Isodendrion longifolium
		Labordia cyrtandrae
		Lobelia gaudichaudii ssp. *koolauensis*
		Lobelia oahuensis
		Melicope hiiakae
		Melicope lydgatei
		Myrsine juddii
		Phyllostegia hirsuta
		Phyllostegia parviflora
		Plantago princeps
		Platanthera holochila
	Platydesma cornuta var. *cornuta*	*Platydesma cornuta* var. *cornuta*
		Psychotria hexandra ssp. *oahuensis*
		Pteralyxia macrocarpa
		Pteris lidgatei
	Sanicula purpurea	*Sanicula purpurea*
	Tetraplasandra gymnocarpa	*Tetraplasandra gymnocarpa*
		Trematolobelia singularis
		Viola oahuensis
		Zanthoxylum oahuense
Oahu—Montane Wet—Unit 1		
		Alectryon macrococcus var. *macrococcus*
	Cyanea acuminate	*Cyanea acuminata*
	Cyanea calycina	*Cyanea calycina*
	Labordia cyrtandrae	*Labordia cyrtandrae*
		Lobelia oahuensis
	Melicope christophersenii	*Melicope christophersenii*
		Phyllostegia hirsuta
	Schiedea trinervis	*Schiedea trinervis*
Oahu—Dry Cliff—Unit 1		
		Abutilon sandwicense
		Achyranthes splendens var. *rotundata*
	Alectryon macrococcus	*Alectryon macrococcus*
		Bonamia menziesii
	Cenchrus agrimonioides	*Cenchrus agrimonioides*
	Chamaesyce herbstii	*Chamaesyce herbstii*
		Chamaesyce kuwaleana
	Cyanea grimesiana ssp. *Obatae*	*Cyanea grimesiana* ssp. *obatae*
	Cyrtandra dentate	*Cyrtandra dentata*
		Diellia falcata
		Diellia unisora
		Dubautia herbstobatae
		Eragrostis fosbergii
		Flueggea neowawraea

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

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

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

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

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

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

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

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

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

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

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

Unit name	Species occupied	Species unoccupied
		Lobelia oahuensis
	Melicope christophersenii	*Melicope christophersenii*
		Phyllostegia hirsuta
		Pteralyxia macrocarpa
		Schiedea hookeri
		Schiedea kaalae
	Schiedea trinervis	*Schiedea trinervis*
Oahu—Wet Cliff—Unit 2		
		Cyanea acuminata
	Cyanea calycina	*Cyanea calycina*
		Labordia cyrtandrae
		Lobelia oahuensis
	Melicope christophersenii	*Melicope christophersenii*
		Phyllostegia hirsuta
		Pteralyxia macrocarpa
		Schiedea hookeri
		Schiedea kaalae
		Schiedea trinervis
Oahu—Wet Cliff—Unit 3		
		Cyanea acuminata
		Cyanea calycina
		Labordia cyrtandrae
		Lobelia oahuensis
		Melicope christophersenii
		Phyllostegia hirsuta
		Pteralyxia macrocarpa
		Schiedea hookeri
		Schiedea kaalae
		Schiedea trinervis
Oahu—Wet Cliff—Unit 4		
		Cyanea acuminata
		Cyanea calycina
		Labordia cyrtandrae
		Lobelia oahuensis
		Melicope christophersenii
	Phyllostegia hirsute	*Phyllostegia hirsuta*
		Pteralyxia macrocarpa
	Schiedea hookeri	*Schiedea hookeri*
		Schiedea kaalae
		Schiedea trinervis
Oahu—Wet Cliff—Unit 5		
		Cyanea acuminata
		Cyanea calycina
		Labordia cyrtandrae
		Lobelia oahuensis
		Melicope christophersenii
		Phyllostegia hirsuta
		Pteralyxia macrocarpa
		Schiedea hookeri
		Schiedea kaalae
		Schiedea trinervis
Oahu—Wet Cliff—Unit 6		
		Adenophorus periens
		Chamaesyce deppeana
		Chamaesyce rockii
		Cyanea acuminata
		Cyanea calycina
	Cyanea crispa	*Cyanea crispa*
		Cyanea humboldtiana
		Cyanea purpurellifolia
		Cyanea st.-johnii
		Cyanea truncata
		Cyrtandra kaulantha
		Cyrtandra sessilis
		Cyrtandra subumbellata
		Cyrtandra viridiflora
	Huperzia nutans	*Huperzia nutans*
		Labordia cyrtandrae
		Lobelia oahuensis
		Lysimachia filifolia
		Phyllostegia hirsuta
		Phyllostegia parviflora

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

Unit name	Species occupied	Species unoccupied
		Plantago princeps
		Psychotria hexandra ssp. *oahuensis*
	Pteralyxia macrocarpa	*Pteralyxia macrocarpa*
		Sanicula purpurea
	Schiedea kaalae	*Schiedea kaalae*
		Tetraplasandra gymnocarpa
		Trematolobelia singularis
		Viola oahuensis
Oahu—Wet Cliff—Unit 7		
		Adenophorus periens
		Chamaesyce deppeana
		Chamaesyce rockii
		Cyanea acuminata
		Cyanea calycina
	Cyanea crispa	*Cyanea crispa*
		Cyanea humboldtiana
		Cyanea purpurellifolia
		Cyanea st.-johnii
		Cyanea truncata
		Cyrtandra kaulantha
		Cyrtandra sessilis
		Cyrtandra subumbellata
		Cyrtandra viridiflora
		Huperzia nutans
		Labordia cyrtandrae
		Lobelia oahuensis
		Lysimachia filifolia
		Phyllostegia hirsuta
		Phyllostegia parviflora
		Plantago princeps
	Psychotria hexandra ssp. *Oahuensis*	*Psychotria hexandra* ssp. *oahuensis*
		Pteralyxia macrocarpa
		Sanicula purpurea
	Schiedea kaalae	*Schiedea kaalae*
		Tetraplasandra gymnocarpa
		Trematolobelia singularis
		Viola oahuensis
Oahu—Wet Cliff—Unit 8		
		Adenophorus periens
		Chamaesyce deppeana
		Chamaesyce rockii
	Cyanea acuminate	*Cyanea acuminata*
	Cyanea calycina	*Cyanea calycina*
		Cyanea crispa
	Cyanea humboldtiana	*Cyanea humboldtiana*
	Cyanea purpurellifolia	*Cyanea purpurellifolia*
	Cyanea st.-johnii	*Cyanea st.-johnii*
		Cyanea truncata
	Cyrtandra kaulantha	*Cyrtandra kaulantha*
	Cyrtandra sessilis	*Cyrtandra sessilis*
	Cyrtandra subumbellata	*Cyrtandra subumbellata*
	Cyrtandra viridiflora	*Cyrtandra viridiflora*
	Huperzia nutans	*Huperzia nutans*
	Labordia cyrtandrae	*Labordia cyrtandrae*
	Lobelia oahuensis	*Lobelia oahuensis*
	Lysimachia filifolia	*Lysimachia filifolia*
	Phyllostegia hirsute	*Phyllostegia hirsuta*
	Phyllostegia parviflora	*Phyllostegia parviflora*
	Plantago princeps	*Plantago princeps*
		Psychotria hexandra ssp. *oahuensis*
	Pteralyxia macrocarpa	*Pteralyxia macrocarpa*
	Sanicula purpurea	*Sanicula purpurea*
		Schiedea kaalae
	Tetraplasandra gymnocarpa	*Tetraplasandra gymnocarpa*
	Trematolobelia singularis	*Trematolobelia singularis*
	Viola oahuensis	*Viola oahuensis*

(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*.

(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).
(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).
(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—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—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 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: 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

Pleomele 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 *Pleomele 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 amplectens (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 amplectens* 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.

(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.*

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: *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.*

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.

(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.*

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.

(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*, *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*.

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, 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 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.

(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.

(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.

(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*.

(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).

(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.*

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:

(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:

(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.*

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, 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.

(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*, *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*.

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.

(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.*

(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 (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.

(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 CONVOLVULACEAE

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—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, 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, 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, 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*, *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*.

Chamaesyce skottsbergii var. *skottsbergii* (EWA PLAINS 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 *Chamaesyce 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.

Euphorbia haeleeleana (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 haeleeleana* 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*.

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

Centaurium 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 *Centaurium 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—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—Lowland 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—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*, *Leptecophylla*, *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.

(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.*

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.

(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.

(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*, *Microlepia*.

(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 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:

(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 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* 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*, *Leptecophylla*, *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.

(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).

(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.

(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.*

(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 ssp. *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* ssp. *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 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 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 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, 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 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*.

Platydesma 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 *Platydesma 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*.

Platydesma 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 *Platydesma 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 to190 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 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, AIAKEAKUA)

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:

(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

Isodendrion 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 *Isodendrion 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, and 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.*

Isodendrion 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 *Isodendrion longifolium* 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.*

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—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.

(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.*

Diellia erecta (ASPLENIUM–LEAVED DIELLIA)

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 *Diellia erecta* 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.*

Diellia falcata (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 *Diellia falcata* 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*.

(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 (PENDANT KIHI FERN)

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

Huperzia 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 *Huperzia 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.*

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Subpart J—Manatee Protection Areas

SOURCE: 44 FR 60964, Oct. 22, 1979, unless otherwise noted.

§ 17.100 Purpose.

This subpart provides a means for establishing manatee protection areas without waters under the jurisdiction of the United States, including coastal waters adjacent to and inland waters within the several States, within which certain waterborne activities will be restricted or prohibited for the purpose of preventing the taking of manatees.

§ 17.101 Scope.

This subpart applies to the West Indian manatee (*Trichechus manatus*), also known as the Florida manatee and as the sea cow. The provisions of this subpart are in addition to, and not in lieu of, other regulations contained in this chapter I which may require a permit or prescribe additional restrictions on the importation, exportation, transportation, or taking of wildlife, and the regulations contained in title 33, CFR, which regulate the use of navigable waters.

§ 17.102 Definitions.

In addition to definitions contained in the Acts, part 10 of this subchapter, and § 17.3 of this part, and unless the context otherwise requires, in this subpart:

Acts means the Endangered Species Act of 1973, as amended (87 Stat. 884, 16 U.S.C. 1531–1543) and the Marine Mammal Protection Act of 1972, as amended (86 Stat. 1027, 16 U.S.C. 1361–1407);

Authorized officer means any commissioned, warrant, or petty officer of the U.S. Coast Guard, or any officer or agent designated by the Director of the U.S. Fish and Wildlife Service, the Secretary of the Interior, the Secretary of Commerce, or the Secretary of the Treasury, or any officer designated by the head of a Federal or State agency which has entered into an agreement with the Secretary of the Interior, Secretary of Commerce, Secretary of the Treasury, or Secretary of Transportation to enforce the Acts, or any Coast Guard personnel accompanying and acting under the direction of a person included above in this definition;

Idle speed is defined as the minimum speed needed to maintain steerage (direction) of the vessel;

Manatee protection area means a manatee refuge or a manatee sanctuary;

Manatee refuge means an area in which the Director has determined that certain waterborne activity would result in the taking of one or more manatees, or that certain waterborne activity must be restricted to prevent the taking of one or more manatees, including but not limited to a taking by harassment;

Manatee sanctuary means an area in which the Director has determined that any waterborne activity would result in a taking of one or more manatees, including but not limited to a taking by harassment;

Planing means riding on or near the water's surface as a result of the hydrodynamic forces on a water vehicle's hull, sponsons, foils, or other surfaces. A water vehicle is considered on plane when it is being operated at or above the speed necessary to keep the vessel planing;

Slow speed is defined as the speed at which a water vehicle proceeds when it is fully off plane and completely settled in the water. Due to the different speeds at which water vehicles of different sizes and configurations may travel while in compliance with this definition, no specific speed is assigned to slow speed. A water vehicle is *not* proceeding at slow speed if it is: on a plane; in the process of coming up on or coming off of plane; or creating an excessive wake. A water vehicle *is* proceeding at slow speed if it is fully off plane and completely settled in the water, not creating an excessive wake;

Slow speed (channel exempt) means that the slow-speed designation does not apply to those waters within the maintained, marked channel;

Slow speed (channel included) means that the slow-speed designation applies

both within and outside the designated channel;

Wake means all changes in the vertical height of the water's surface caused by the passage of a water vehicle, including a vessel's bow wave, stern wave, and propeller wash, or a combination thereof;

Waterborne activity includes, but is not limited to, swimming, diving (including skin and scuba diving), snorkeling, water skiing, surfing, fishing, the use of water vehicles, and dredging and filling operations;

Water vehicle, *watercraft*, and *vessel* include, but are not limited to, boats (whether powered by engine, wind, or other means), ships (whether powered by engine, wind, or other means), barges, surfboards, personal watercraft, water skis, or any other device or mechanism the primary or an incidental purpose of which is locomotion on, or across, or underneath the surface of the water.

[44 FR 60964, Oct. 22, 1979, as amended at 67 FR 693, Jan. 7, 2002]

§ 17.103 Establishment of protection areas.

The Director may, by regulation issued in accordance with 5 U.S.C. 553 and 43 CFR part 14, establish manatee protection areas whenever there is substantial evidence showing such establishment is necessary to prevent the taking of one or more manatees. Any regulation establishing a manatee protection area shall state the following information:

(a) Whether the area is to be a manatee sanctuary or refuge.

(1) If the area is to be a manatee sanctuary, the regulation shall state that all waterborne activities are prohibited.

(2) If the area is to be a manatee refuge, the regulation shall state which, if any, waterborne activities are prohibited, and it shall state the applicable restrictions, if any, on permitted waterborne activities.

(b) A description of the area sufficient enough so that its location and dimensions can be readily ascertained without resort to means other than published maps, natural or man-made physical reference points, and posted signs.

(c) Whether the designation is to remain in effect year-round, and if not, the time of year it is to remain in effect.

§ 17.104 Prohibitions.

Except as provided in § 17.105,

(a) *Manatee sanctuary.* It is unlawful for any person to engage in any waterborne activity within a manatee sanctuary.

(b) *Manatee refuge.* It is unlawful for any person within a particular manatee refuge to engage in any waterborne activity which has been specifically prohibited within that refuge, or to engage in any waterborne activity in a manner contrary to that permitted by regulation within that area. Any take of manatees under the Acts (see § 18.3 of this chapter for a definition of ''take'' in regard to marine mammals), including take by harassment, is prohibited wherever it may occur.

(c) *State law.* It is unlawful for any person to engage in any waterborne activity prohibited by, or to engage in any waterborne activity in a manner contrary to that permitted by, any State law or regulation the primary purpose of which is the protection of manatees: *Provided:* that such State law or regulation has been issued as part of a program which is determined to be in accordance with the Endangered Species Act of 1973, pursuant to section 6(c) of that Act (16 U.S.C. 1535(c)) or has been approved as consistent with the Marine Mammal Protection Act of 1972 in accordance with section 109 of that Act (16 U.S.C. 1379) and 50 CFR 18.53.[1]

[44 FR 60964, Oct. 22, 1979, as amended at 77 FR 15631, Mar. 16, 2012]

§ 17.105 Permits and exceptions.

(a) The Director may issue permits allowing the permittee to engage in any activity otherwise prohibited by this subpart. Such permits shall be issued in accordance with the provisions of § 17.22 of this part. Such permits shall be issued only for scientific purposes or for the enhancement of

[1] EDITORIAL NOTE: Section 18.53 was removed at 48 FR 22456, May 18, 1983. See the note at part 18, subpart F.

propagation or survival. All of the provisions of §17.22 shall apply to the issuance of such permits, including those provisions which incorporate other sections by reference. Compliance with this paragraph does not by itself constitute compliance with any applicable requirements of part 18.

(b) Any authorized officer may engage in any activity otherwise prohibited by this subpart if:

(1) The officer is acting in the performance of his or her official duties; and

(2) The activity is being conducted to directly protect any manatees, to enhance the propagation or survival of manatees, or is reasonably required to enforce the other provisions of this subpart.

(c) Any person may engage in any activity otherwise prohibited by this subpart if such activity is reasonably necessary to prevent the loss of life or property due to weather conditions or other reasonably unforeseen circumstances, or to render necessary assistance to persons or property.

(d) Any waterborne activity which would otherwise be prohibited by this subpart may be engaged in if it is conducted by or under a contract with a Federal agency and if the Secretary of Defense, in accordance with section 7(j) of the Endangered Species Act of 1973 (16 U.S.C. 1536(j)) makes a finding that such activity is necessary for reasons of national security. Such a finding must be made prior to the beginning of the activity or the designation of the protection area, whichever occurs later; except that in the case of an emergency establishment of a protection area under §17.106, the finding must be made within 10 days after the beginning of the activity or the designation of the protection area, whichever occurs later.

§17.106 Emergency establishment of protection areas.

(a) The Director may establish a manatee protection area under the provisions of paragraphs (b) and (c) of this section at any time he determines there is substantial evidence that there is imminent danger of a taking of one or more manatees, and that such establishment is necessary to prevent such a taking.

(b) The establishment of a manatee protection area under this section shall become effective immediately upon completion of the following requirements:

(1) Publication of a notice containing the information required by §17.103 of this section in a newspaper of general circulation in each county, if any, in which the protection area lies; and

(2) Posting of the protection area with signs clearly marking its boundaries.

(c) Simultaneously with the publication required by paragraph (b) of this section, the Director shall publish the same notice in the FEDERAL REGISTER. If simultaneous publication is impractical, because of the time involved or the nature of a particular emergency situation, failure to publish notice in the FEDERAL REGISTER simultaneously shall not delay the effective date of the emergency establishment. In such a case, notice shall be published in the FEDERAL REGISTER as soon as possible.

(d) No emergency establishment of a protection area shall be effective for more than 120 days. Termination of an emergency establishment of a protection area shall be accomplished by publishing notice of the termination in the FEDERAL REGISTER and in a newspaper of general circulation in each county, if any, in which the protection area lies.

(e) Within 10 days after establishing a protection area in accordance with this section, the Director shall commence proceedings to establish the area in accordance with §17.103.

§17.107 Facilitating enforcement.

Water vehicles operating in manatee sanctuary or refuge waters are subject to boarding and inspection for the purpose of enforcing the Acts and these regulations.

(a) The operator of a water vehicle shall immediately comply with instructions issued by authorized officers to facilitate boarding and inspection of the water vehicle.

(b) Upon being approached by an authorized officer, the operator of a water vehicle shall be alert for signals conveying enforcement instructions.

(c) A water vehicle signaled for boarding shall:

(1) Guard channel 16, VHF-FM, if equipped with a VHF-FM radio;

(2) Stop immediately and lay to or maneuver in such a manner as to facilitate boarding by the authorized officer and his or her party;

(3) When necessary to facilitate the boarding, provide a safe ladder, manrope, safety line and illumination of the ladder; and

(4) Take such other actions as may be necessary to ensure the safety of the authorized officer and his or her party and to facilitate the boarding and inspection.

(d) It is unlawful for any person to assault, resist, oppose, impede, intimidate, or interfere with any authorized officer or member of his or her party.

§ 17.108 List of designated manatee protection areas.

(a) *Manatee sanctuaries.* The following areas are designated as manatee sanctuaries. All waterborne activities are prohibited in these areas during the period November 15–March 31 of each year. The areas which will be posted are described as follows:

(1) That part of Kings Bay, Crystal River, Citrus County, within T. 18 S., R. 17 E., Tallahassee Meridian; located in SW¼ fractional section 28, more particularly described as follows:

Beginning at Corner 1 (N–1,653,459/E–308,915) Florida Coordinate System, West Zone, a point on the shoreline of Kings Bay near the southwest corner of Lot 9 as accepted on a plat by the Department of the Interior, General Land Office, dated January 10, 1928; thence easterly, along said shoreline, approximately 1240 feet to Corner 2 (N–1,653,762/E/309,641) a point; thence S. 56°58′11″ W., across open water, 776.49 feet to Corner 3 (N–1,653,339/E–308,990) a point; thence N. 32°03′07″ W., across open water, 142.26 feet to the point of beginning, containing 3.41 acres, more or less, to be known as the Banana Island Sanctuary.

(2) That part of Kings Bay, Crystal River, Citrus County, Florida, within T. 18 S., R. 17 E., Tallahassee Meridian; located in SW¼ fractional section 28, more particularly described as follows:

Beginning at Corner 1 (N–1,652,684/E–309,396) Florida Coordinate System, West Zone, a point on the shoreline of Kings Bay, said point being the northwest corner of Lot 31 Sunset Shores Addition to Woodward Park (Plat Book 2, page 140 Citrus County Property Appraiser's Office); thence N. 35°05′33″ W., across open water, 439.10 feet to Corner 2 (N–1,653,043/E–309,144) a point; thence N. 67°23′28″ E., across open water, 873.45 feet to Corner 3, a point on the shoreline of Kings Bay said point also being a corner in the northerly boundary line of Lot 21 in said subdivision; thence southwesterly along said shoreline and the northerly boundary of Lots 21–31, including a canal, approximately 920 feet to the point of beginning, containing 5.62 acres, more or less, to be known as the Sunset Shores Sanctuary.

(3) A tract of submerged land, lying in Sections 21 and 28, Township 18 South, Range 17 East in Citrus County, Florida, more particularly described as follows: All of the submerged land lying within the mean high water line of a canal bordering the western, northern, and eastern sides of Paradise Isle Subdivision, as recorded in Plat Book 3, Page 88 of the Public Records of Citrus County, Florida; bounded at the western exit by a line drawn between the southwestern corner of Lot 7 of said Paradise Isle Subdivision and the southeastern corner of Lot 22 of Springs O'Paradise Subdivision, Unit No. 3, as recorded in Plat Book 3, Page 70 of said Public Records; and bounded at the eastern exit by an easterly extension of the south boundary of said Paradise Isle Subdivision; Containing 3.4 acres, more or less, to be known as the Magnolia Springs Manatee Sanctuary.

(4) A tract of submerged land, lying in Sections 28 and 29, Township 18 South, Range 17 East in Citrus County, Florida, more particularly described as follows: For a point of reference, commence at the southwest corner of said Section 28; Then go N 06°01′23″ W for 4466.90 feet to a 10-inch diameter concrete monument marking the Point of Beginning; Then go N 10°05′38″ W for 477.32 feet to a 10-inch diameter concrete monument with an attached buoy; Then go N 37°34′41″ E for 651.07 feet to a 10-inch diameter concrete monument with an attached buoy; Then go S 73°26′46″ E for 634.10 feet to a 10-inch diameter concrete monument with an attached buoy; Then go S 17°50′16″ E for 1691.53 feet to a 10-inch diameter concrete monument with an attached buoy; Then go S 71°48′58″ W for 117.87 feet to a 10-inch diameter concrete monument with an attached buoy; Then continue S 71°48′58″ W for 5 feet more or less to the mean high water line of Buzzard Island; Then follow said mean high water line northerly and westerly to a point lying S 10°05′38″ E of the point of beginning; Then go N 10°05′38″ W for 5 feet more or less to the point of beginning; Containing 18.0 acres, more or less, to be known as the Buzzard Island Manatee Sanctuary.

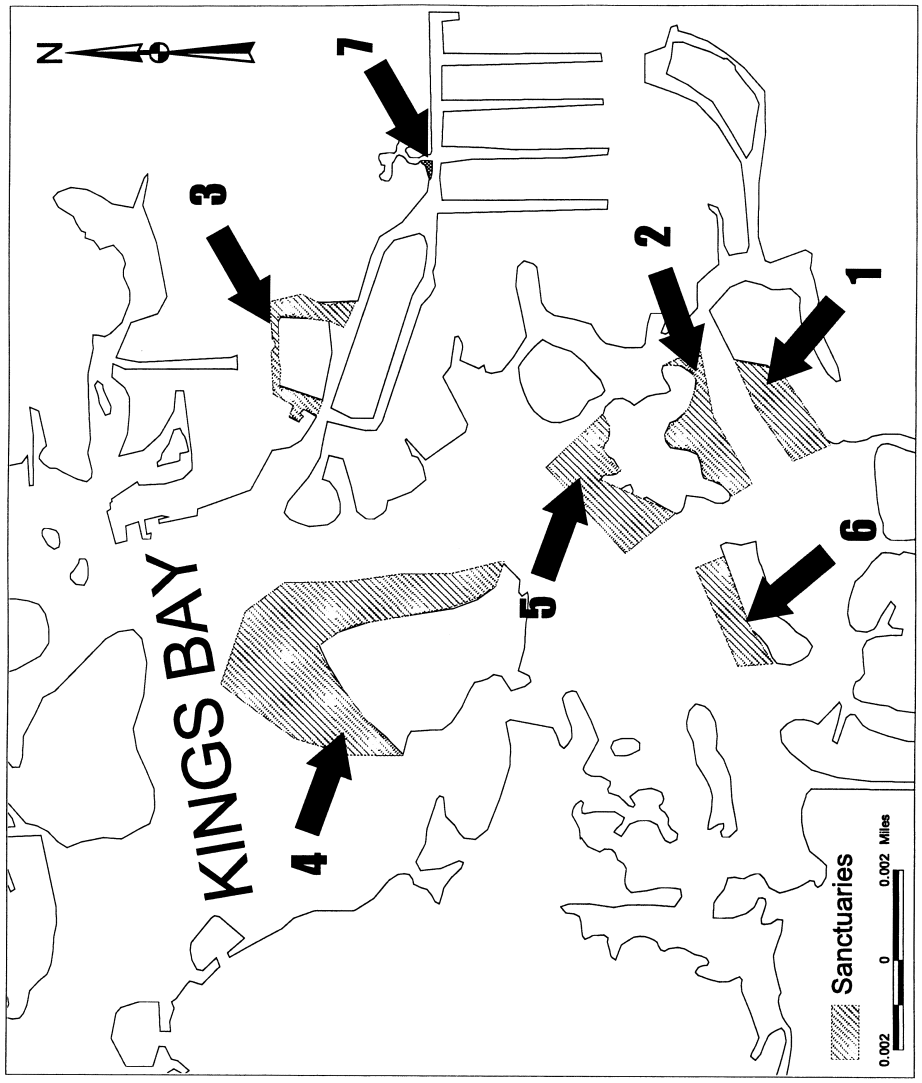
(5) A tract of submerged land, lying in Section 28, Township 18 South, Range 17 East in Citrus County, Florida, more particularly described as follows: For a point of reference, commence at the southwest corner of said

Section 28; Then go N 28°55′06″ E for 2546.59 feet to a 4-inch diameter iron pipe marking the Point of Beginning; Then go N 44°23′41″ W for 282.45 feet to a 10-inch diameter concrete monument with an attached buoy; Then go N 33°53′16″ E for 764.07 feet to a 10-inch diameter concrete monument with an attached buoy; Then go S 31°51′55″ E for 333.22 feet to a 4-inch diameter iron pipe; Then continue S 31°51′55″ E for 5 feet more or less to the mean high water line of Banana Island; Then go westerly along said main high water line to a point lying S 44°23′41″ E from the point of beginning; Then go N 44°23′41″ W for 5 feet more or less to the point of beginning; Containing 4.6 acres, more or less, to be known as the Tarpon Springs Manatee Sanctuary.

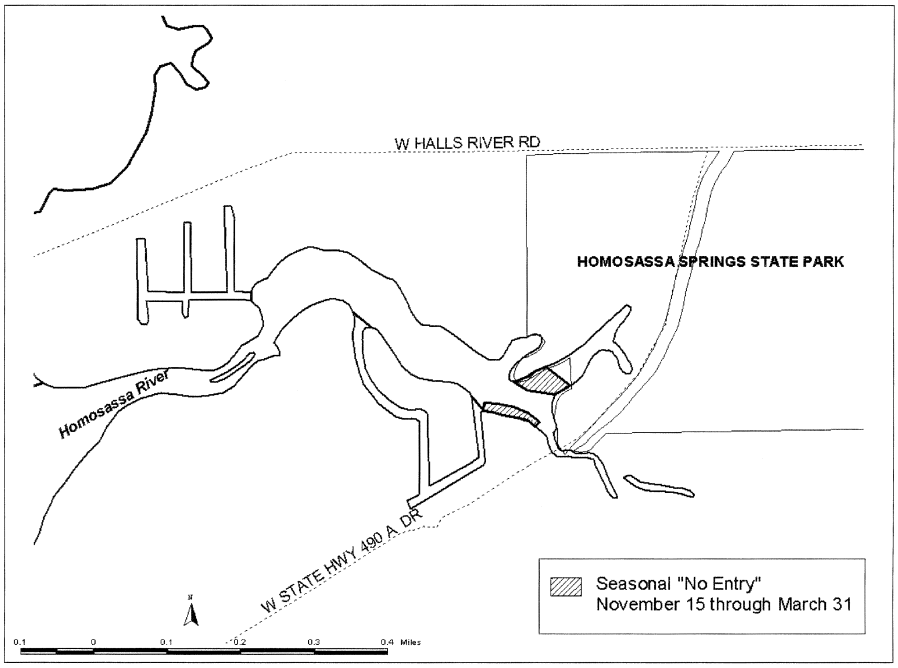
(6) A tract of submerged land, lying in Section 28, Township 18 South, Range 17 East in Citrus County, Florida, more particularly described as follows: For a point of reference, commence at the southwest corner of said Section 28; Then go N 06°43′00″ E for 1477.54 feet to a 10-inch diameter concrete monument marking the Point of Beginning; Then go N 06°24′59″ W for 251.66 feet to a 10-inch diameter concrete monument with an attached buoy; Then go N 65°41′12″ E for 637.83 feet to a 10-inch diameter concrete monument with an attached buoy; Then go S 55°40′52″ E for 272.86 feet to a 10-inch diameter concrete monument; Then continue S 65°15′06″ W for 857.22 feet to the point of beginning; Containing 4.0 acres, more or less, to be known as the Warden Key Manatee Sanctuary.

(7) A tract of submerged land, lying in Section 28, Township 18 South, Range 17 East, Tallahassee Meridian, Citrus County, Florida, more particularly described as follows: For a point of reference, commence at the southwest corner of said Section 28 (N–1651797.56 E–463846.96) Florida Coordinate System, West Zone, NAD 1983, N.G.S. adjustment of 1990 (expressed in U.S. survey feet); thence N. 40°08′47″ E., 5551.65 feet (5551.57 feet grid distance) to an aluminum monument stamped ''PSM 3341 1998'' (N1656009.01 E-467449.35) marking the Point of Beginning; thence N. 77°06′49″ E., 71.84 feet to an aluminum monument stamped ''PSM3341 1998'' (N–1656025.04, N–467519.38); thence S. 04°37′09″ W., 29.88 feet to an aluminum monument stamped ''PSM 3341 1998'' (N–1655995.26 E–467516.98); thence N. 78°29′57″ W., 69.01 feet to the point of beginning; to be known as the Three Sisters Spring Sanctuary.

NOTE: Map for paragraphs (a)(1) through (a)(7) follows:

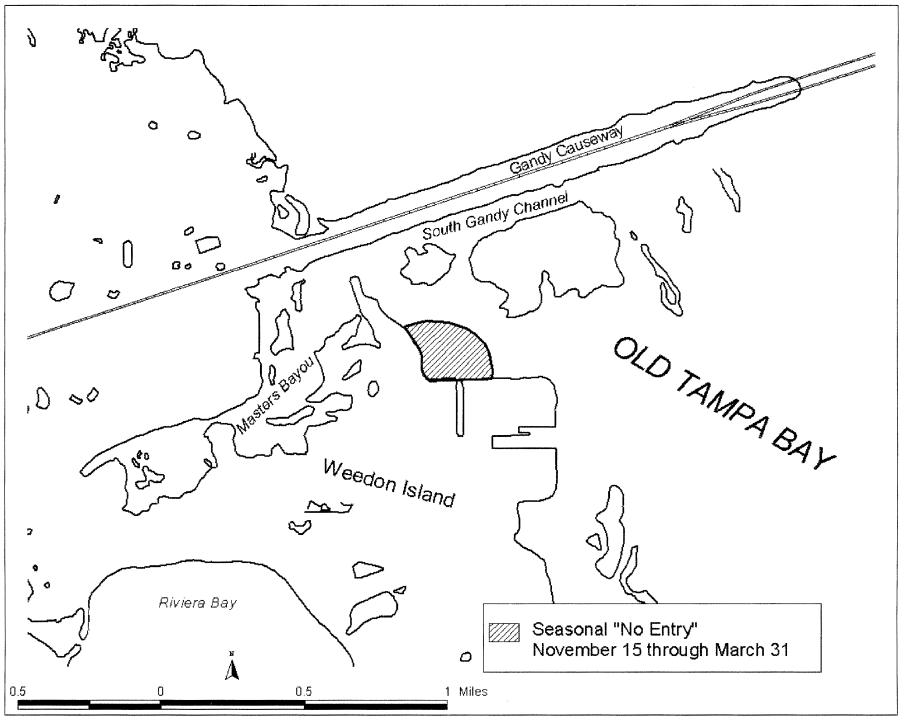


(8) That part of the Homosassa River, Homosassa, Citrus County, Florida, within Section 28, Township 19 South, Range 17 East, described as the headwaters of the Homosassa River (adjacent to the Homosassa Springs State Wildlife Park), including the spring run at the point where the run enters the northeast fork of the river along the southeastern shore and an area opposite this site along the southern shoreline; containing approximately 0.67 ha (1.66 acres). Map follows (see Blue Waters Manatee Sanctuary):



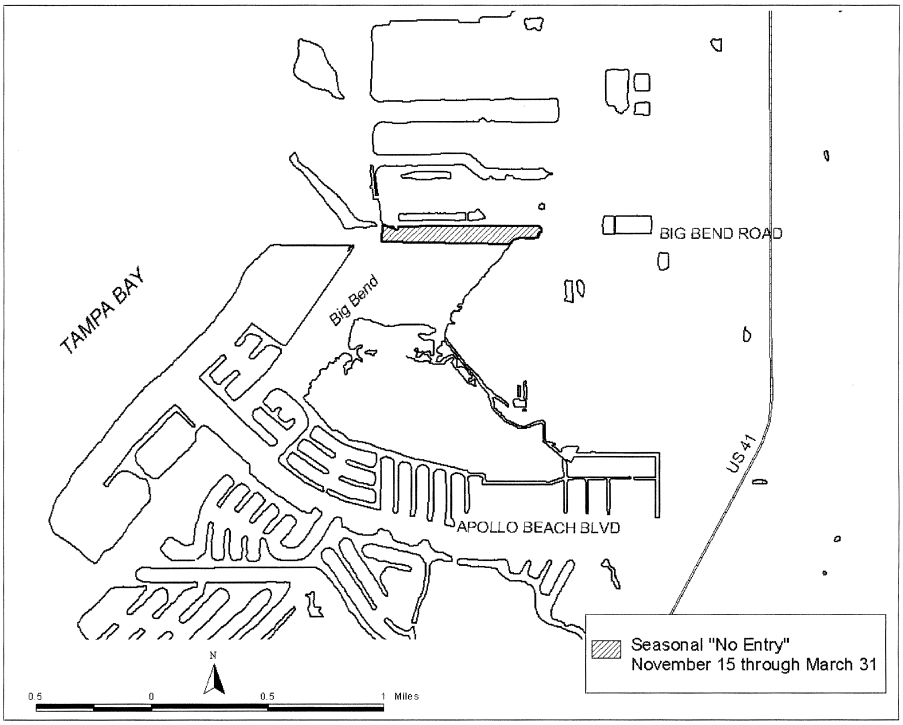
Blue Waters Manatee Sanctuary

(9) That part of Tampa Bay, St. Petersburg, Pinellas County, Florida, within Sections 16 and 21, Township 30 South, Range 17 East, described as the warm-water outflow of the Bartow Electric Generating Plant located on the northern shore of Weedon Island, encircling that point where the discharge enters receiving waters along the western shore of Old Tampa Bay; to be known as the Bartow Electric Generating Plant Manatee Sanctuary, containing approximately 12.07 ha (29.82 acres). Map follows (see Bartow Electric Generating Plant Manatee Sanctuary):



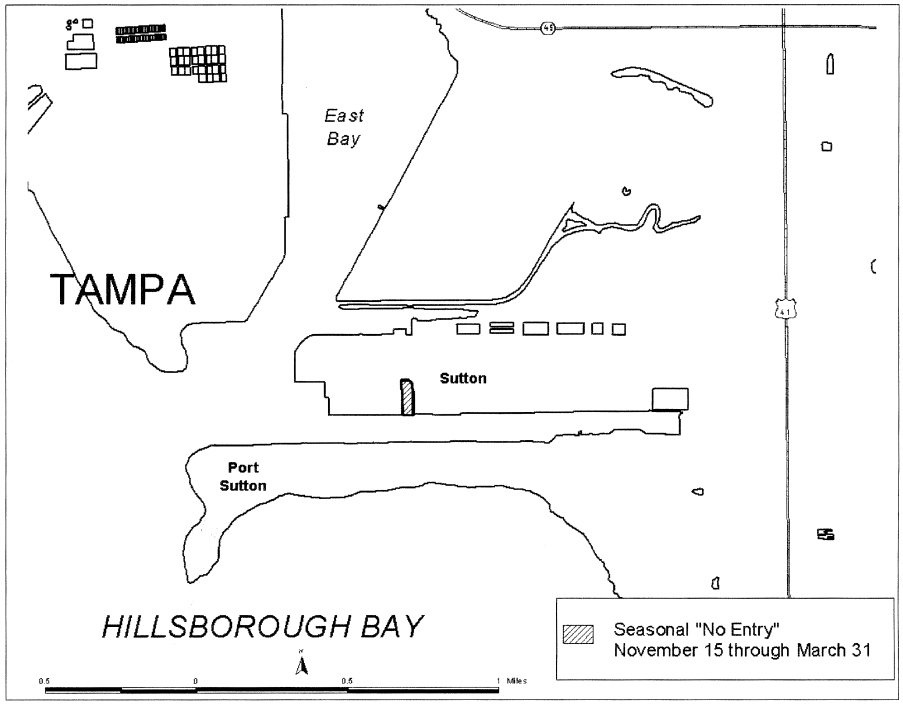
Bartow Electric Generating Plant Manatee Sanctuary

(10) That part of Tampa Bay, Tampa, Hillsborough County, Florida, within Sections 10 and 15, Township 31 South, Range 19 East, described as the waters in and around the warm-water outflow of the Tampa Electric Company Big Bend Electric Generating Station located west of Jackson Branch and including the Big Bend area of eastern Tampa Bay, to be known as the Tampa Electric Company Big Bend Manatee Sanctuary, containing approximately 12.08 ha (29.85 acres). Map follows (See TECO Big Bend Manatee Sanctuary):



TECO Big Bend Manatee Sanctuary

(11) That part of Tampa Bay, Tampa, Hillsborough County, Florida, lying within Section 4, Township 30 South, Range 19 East, described as the warm-water outflow of the Tampa Electric Company Gannon Electric Generating Station, to be known as the Port Sutton Manatee Sanctuary, containing approximately 1.1 ha (2.7 acres). Map follows (see Port Sutton Manatee Sanctuary):



Port Sutton Manatee Sanctuary

(b) *Exceptions.* (1) Adjoining property owners, their guests, employees, and their designees (including but not limited to contractors and lessees) may engage in watercraft access and property maintenance activities through manatee sanctuaries (set forth in paragraphs (a)(1) through (a)(11) of this section) and designated ''no-entry areas'' in the Kings Bay Manatee Refuge (set forth in paragraph (c)(14) of this section). Use of sanctuary and no-entry area waters is restricted to authorized individuals accessing adjoining properties, storing watercraft, and maintaining property and waterways. Maintenance activities include those actions necessary to maintain property and waterways, subject to any Federal, State, and local government permitting requirements.

(2) Authorized individuals must obtain a sticker or letter of authorization from the U.S. Fish and Wildlife Service identifying them as individuals authorized to enter no-entry areas that adjoin their property. Stickers must be placed in a conspicuous location to readily identify authorized watercraft. Individuals with a letter of authorization must have a valid letter in their possession when accessing no-entry areas.

(3) Authorized individuals must conduct any authorized boating activity within these areas at idle or no-wake speeds.

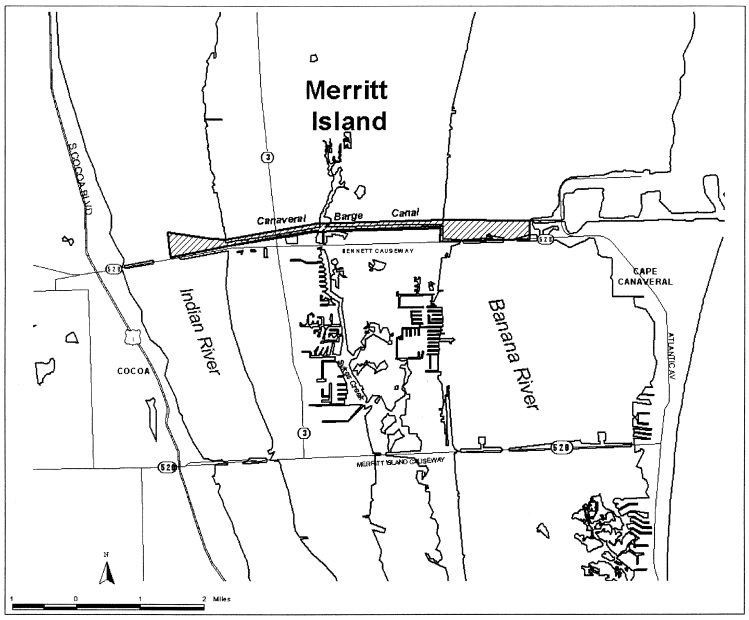
(c) *Manatee refuges.* The following areas are designated as manatee refuges. For each manatee refuge, we will state on appropriate signs which, if any, waterborne activities are prohibited, and state the applicable restrictions, if any, on permitted waterborne activities. The areas that will be posted are described as follows:

(1) *The Barge Canal Manatee Refuge.* (i) The Barge Canal Manatee Refuge is described as all waters lying within the

banks of the Barge Canal, Brevard County, Florida, including all waters lying within the marked channel in the Banana River that lie between the east entrance of the Barge Canal and the Canaveral Locks; containing approximately 276.3 ha (682.7 acres).

(ii) Watercraft are required to proceed at slow speed (channel included) all year. The use of watercraft at speeds greater than slow speed is prohibited throughout the Barge Canal Manatee Refuge.

(iii) Map of the Barge Canal Manatee Refuge follows:

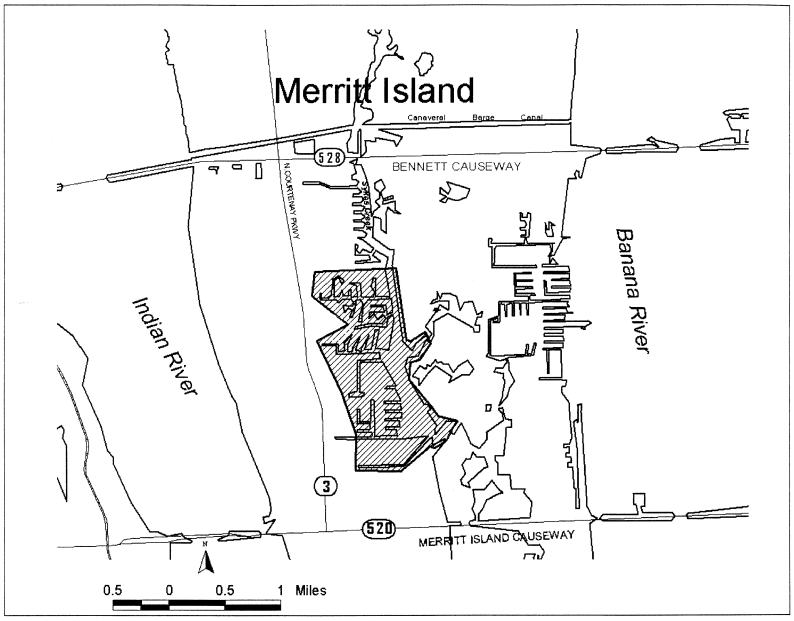


Barge Canal Manatee Refuge

(2) *The Sykes Creek Manatee Refuge.* (i) The Sykes Creek Manatee Refuge is described as all waters, including the marked channel in Sykes Creek, Brevard County, Florida. In particular, the portion of Sykes Creek southerly of the southern boundary of that portion of the creek commonly known as the ''S'' curve (said boundary being a line bearing east from a point on the western shoreline of Sykes Creek at approximate latitude 28 degrees 23′24″ N, approximate longitude 80 degrees 41′27″ W) and northerly of the Sykes Creek Parkway; containing approximately 342.3 ha (845.8 acres).

(ii) Watercraft are required to proceed at slow speed (channel included) all year. The use of watercraft at speeds greater than slow speed is prohibited throughout the Sykes Creek Manatee Refuge.

(iii) Map of the Sykes Creek Manatee Refuge follows:

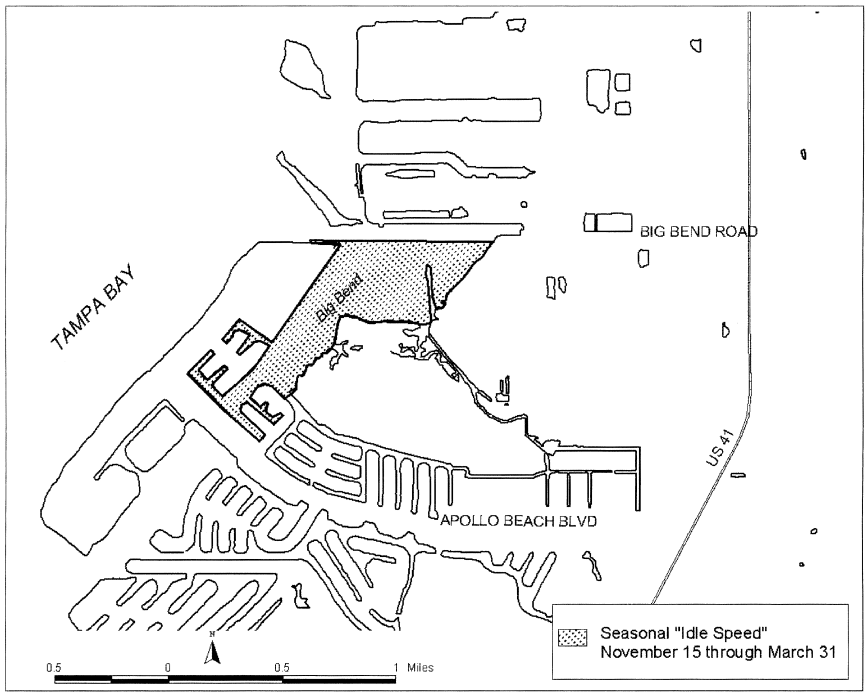


Sykes Creek Manatee Refuge

(3) *The Tampa Electric Company's Big Bend Manatee Refuge.* (i) The Tampa Electric Company's Big Bend Manatee Refuge is described as the entrance channel and those waters south of the manatee sanctuary at the Tampa Electric Company's Big Bend Electric Generating Station within Hillsborough County, Florida; containing approximately 89.35 ha (220.79 acres).

(ii) Watercraft are required to operate at idle speed from November 15 through March 31. Watercraft are prohibited from operating at speeds greater than idle speed from November 15 through March 31, inclusive.

(iii) Map of the Tampa Electric Company's Big Bend Manatee Refuge follows (see TECO Big Bend Manatee Refuge):

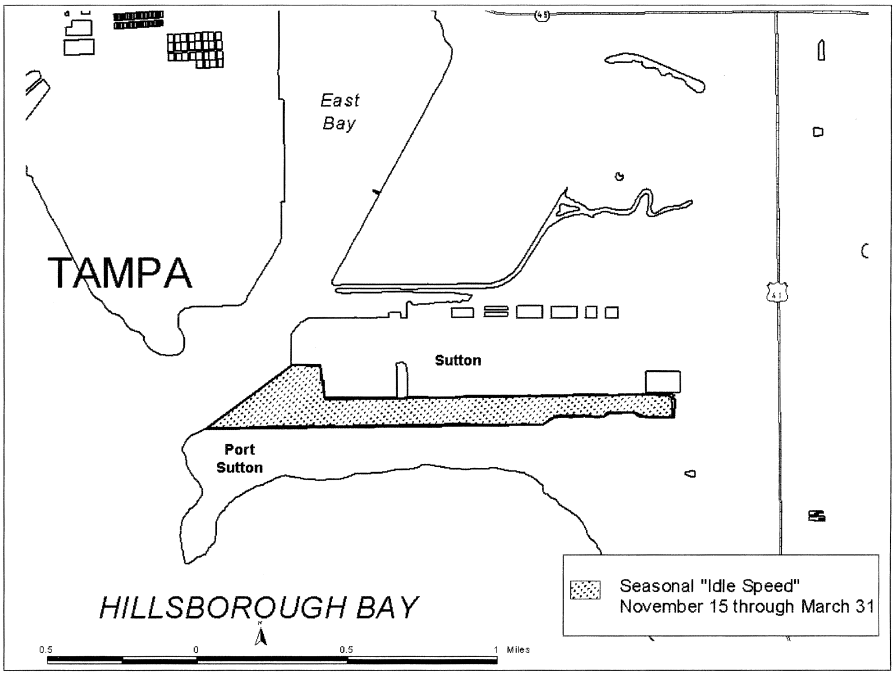


TECO Big Bend Manatee Refuge

(4) *The Port Sutton Manatee Refuge.* (i) The Port Sutton Manatee Refuge is described as those waters surrounding the Port Sutton Manatee Sanctuary, including all waters within Port Sutton, Hillsborough County, Florida; containing approximately 39.2 ha (96.9 acres).

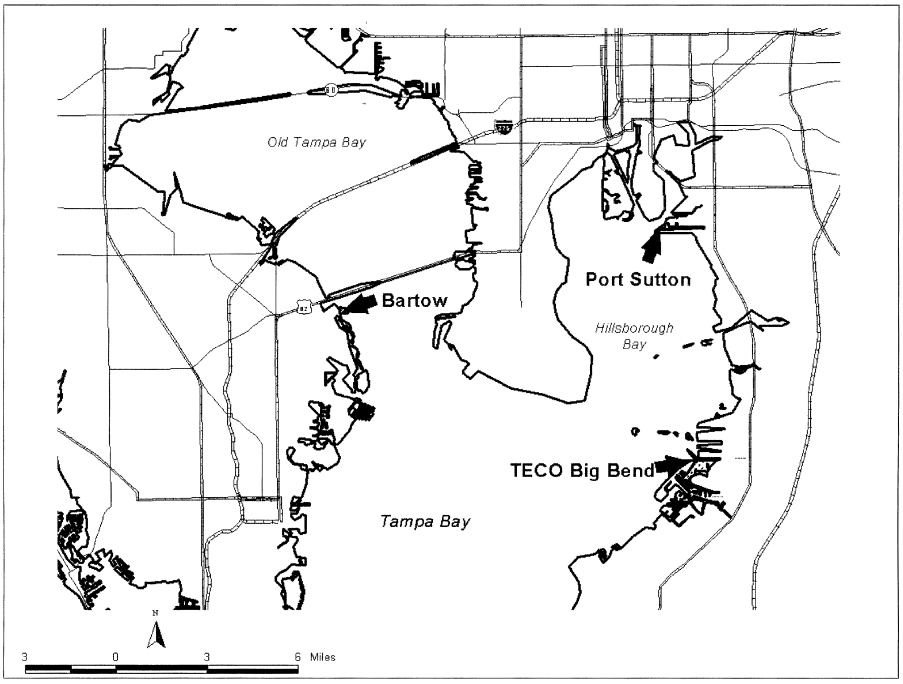
(ii) Watercraft are required to operate at idle speed from November 15 through March 31, inclusive. Watercraft are prohibited from operating at speeds greater than idle speed from November 15 through March 31, inclusive.

(iii) Map of Port Sutton Manatee Refuge follows (see Port Sutton Manatee Refuge):



Port Sutton Manatee Refuge

(iv) Map showing the relative locations of the Bartow, TECO Big Bend, and Port Sutton areas of Tampa Bay follows (see Tampa Bay Manatee Sanctuaries and Refuges):

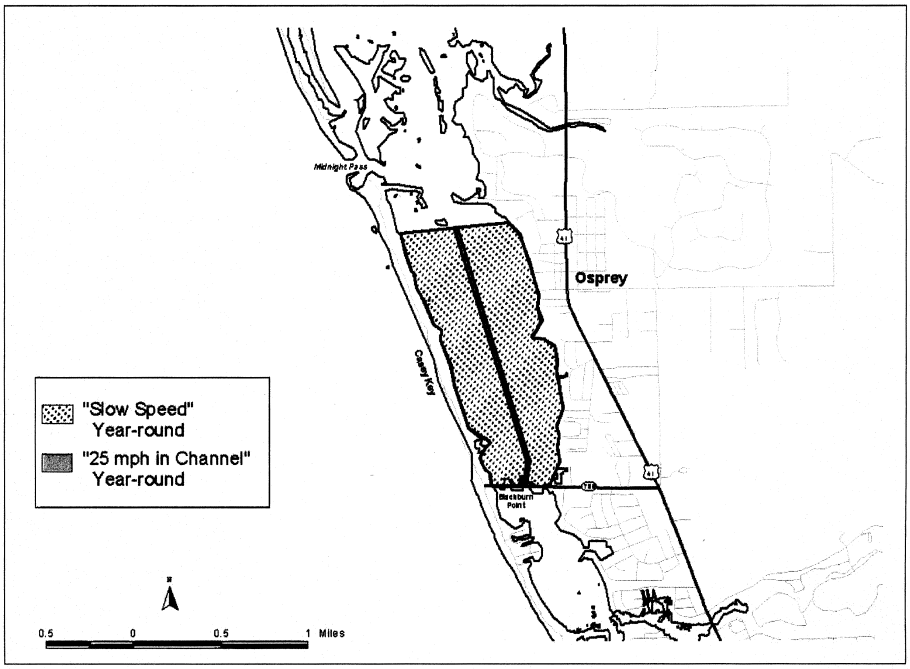


Tampa Bay Manatee Sanctuaries and Refuges

(5) *The Little Sarasota Bay Manatee Refuge.* (i) The Little Sarasota Bay Manatee Refuge is described as those waters lying southerly of a line that bears north 90 degrees 00′00″ E (true) and runs through the southerly tip of the first unnamed island south of Red Intracoastal Waterway Channel Marker ''40'' (latitude 27 degrees 10′07″ N, longitude 82 degrees 30′05″ W) and those waters lying northerly of the Blackburn Point Bridge, Sarasota County, Florida; containing approximately 214.2 ha (529.40 acres).

(ii) Watercraft are required to proceed at slow speed, 40 kilometers per hour (25 miles per hour) within the channel, year-round. Watercraft are prohibited from operating in excess of slow speed outside of the channel and operating at speeds in excess of 40 kilometers per hour (25 miles per hour) within the channel, year-round.

(iii) Map of the Little Sarasota Bay Manatee Refuge follows (see Little Sarasota Bay Manatee Refuge):

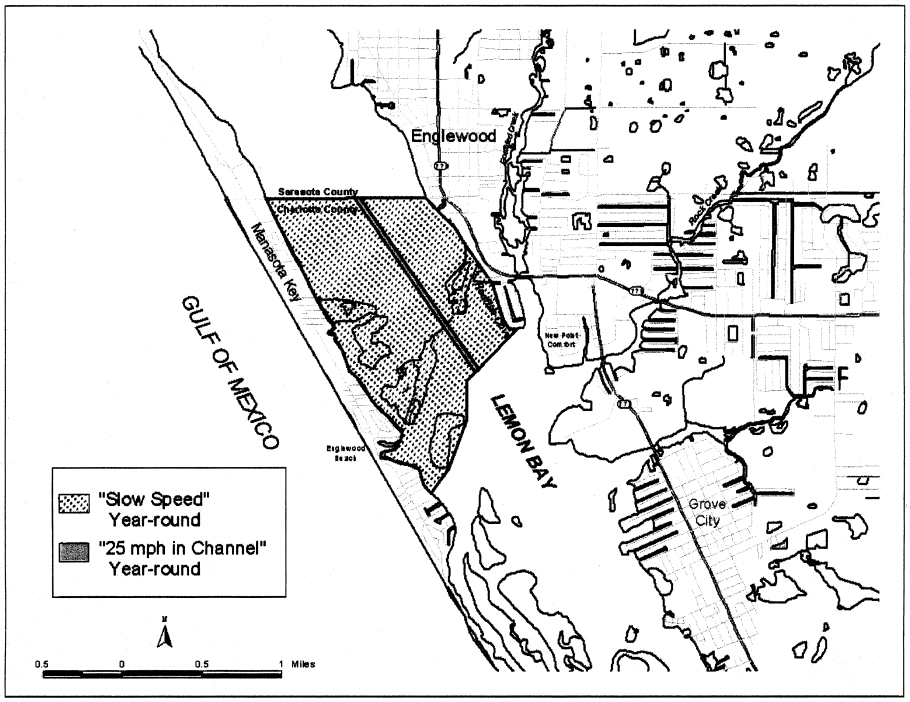


Little Sarasota Bay Manatee Refuge

(6) *The Lemon Bay Manatee Refuge.* (i) The Lemon Bay Manatee Refuge is described as those waters of Lemon Bay lying south of the Sarasota/Charlotte County, Florida, boundary and north of a line north 60 degrees 14′00″ E (true) parallel with a series of small islands approximately 1.6 kilometer (1 mile) south of the Bay Road Bridge; containing approximately 383.61 ha (948.06 acres).

(ii) Watercraft are required to proceed at slow speed, 40 kilometers per hour (25 miles per hour) within the channel, year-round. Watercraft are prohibited from operating in excess of slow speed outside of the channel and operating at speeds in excess of 40 kilometers per hour (25 miles per hour) within the channel, year-round.

(iii) Map of the Lemon Bay Manatee Refuge follows (see Lemon Bay Manatee Refuge):



Lemon Bay Manatee Refuge

(7) *The Peace River Manatee Refuge.* (i) The Peace River Manatee Refuge is described as all waters of the Peace River and certain associated water bodies north and east of the U.S. Highway 41, Charlotte and De Soto Counties, Florida; containing approximately 1.698.11 ha (4,196.11 acres).

(ii) In the Peace River in Charlotte County, watercraft are required to travel at slow speed within a posted shoreline buffer between the US Highway 41 and I–75 bridges. The buffer is approximately 300 meters (1,000 feet) from shore except in a slightly larger area north and west of I–75 to be consistent with recently adopted Florida Fish and Wildlife Conservation Commission's regulations. Watercraft are allowed to travel at a maximum speed of 40 kilometers per hour (25 miles per hour) year-round outside the buffer. Watercraft are prohibited from traveling in excess of slow speed within the posted shoreline buffer between the U.S. Highway 41 and I–75 bridges and are further prohibited from operating in excess of 40 kilometers per hour (25 miles per hour) outside the buffer throughout the year.

(iii) In the Peace River within Charlotte County and upstream of I–75 to red channel marker ''14,'' watercraft are required to travel at slow speed outside of the marked navigation channel. Watercraft are allowed to travel at a maximum speed of 40 kilometers per hour (25 miles per hour) year-round inside the marked navigation channel. Watercraft are prohibited from traveling in excess of slow speed in areas outside of the navigation channel and are further prohibited from traveling in excess of 40 kilometers per hour (25 miles per hour) inside the marked navigation channel, year-round.

(iv) In the waters of the Peace River in Charlotte and De Soto Counties upstream of red channel marker ''14,'' watercraft are allowed to travel at a

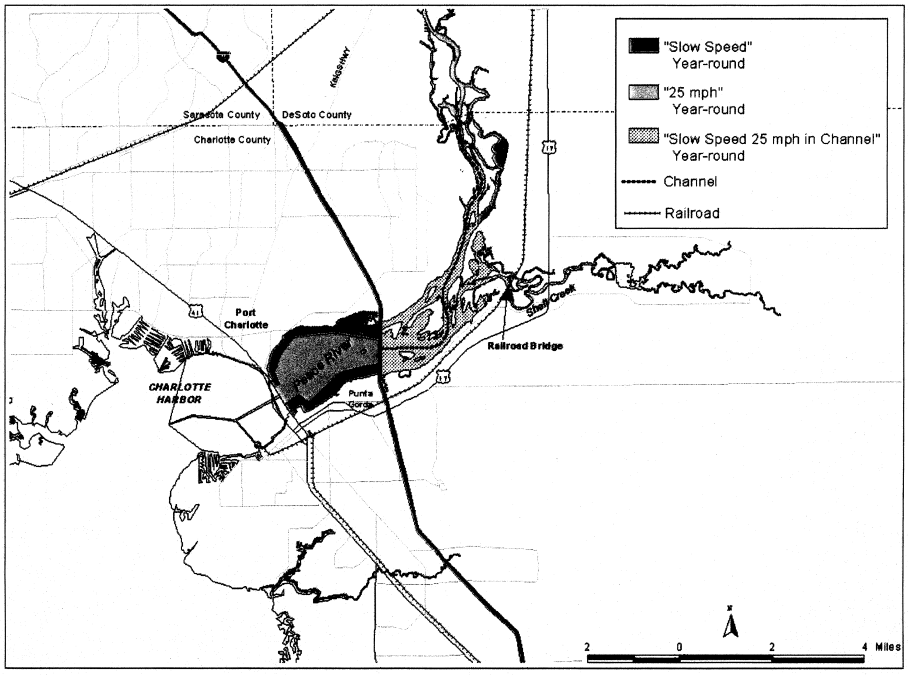
maximum speed of 40 kilometers per hour (25 miles per hour) year-round. Watercraft are prohibited from traveling in excess of 40 kilometers per hour (25 miles per hour), year-round, in this area.

(v) Within the waters of Jim Long Lake and Hunter Creek in Charlotte and De Soto Counties, watercraft are required to travel at slow speed year-round. Watercraft are prohibited from traveling in excess of slow speed in this area, year-round.

(vi) Within the waters of Deep Creek in Charlotte and De Soto Counties, watercraft are required to travel at slow speed year-round. Watercraft are prohibited from traveling in excess of slow speed in this area, year-round.

(vii) Within the waters of Shell Creek in Charlotte County, watercraft are required to travel at slow speed year-round with the following exception. Should a U.S. Coast Guard or State of Florida approved marked navigation channel be established in that portion of Shell Creek approximately 1.6 kilometers (1 mile) downstream of the Seaboard Railroad trestles, watercraft will be allowed to travel at a maximum speed of 40 kilometers per hour (25 miles per hour) in this section of Shell Creek upon posting by the Fish and Wildlife Service or the Florida Fish and Wildlife Conservation Commission. Watercraft are prohibited from traveling in excess of slow speed in this area, year-round.

(viii) Map of the Peace River Manatee Refuge follows (see Peace River Manatee Refuge):



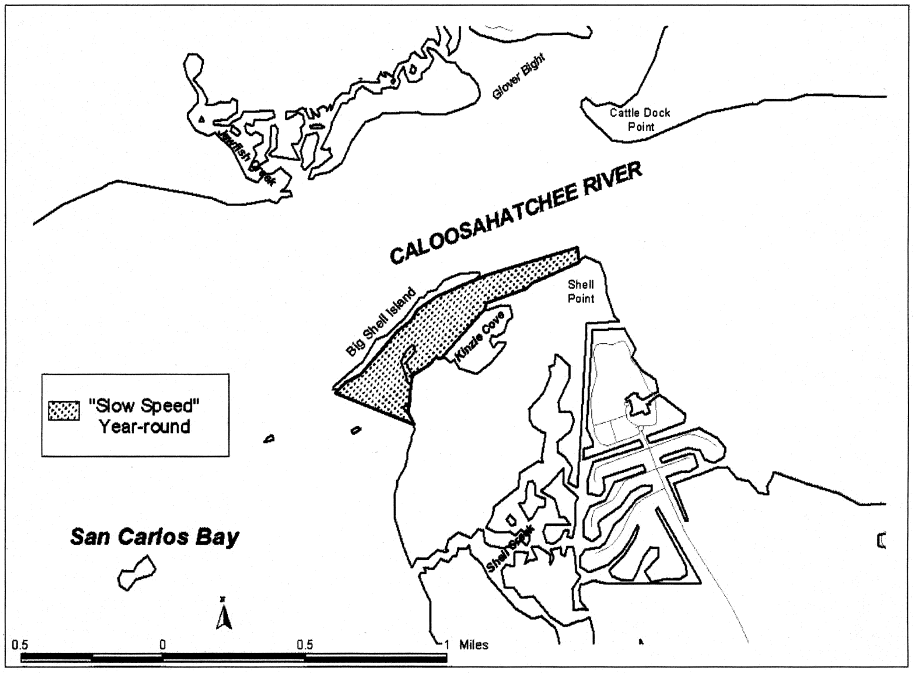
Peace River Manatee Refuge

(8) *The Shell Island Manatee Refuge.* (i) The Shell Island Manatee Refuge is described as all waters within the marked Intracoastal Waterway channel between Green Marker ''99'' (approximate

latitude 26 degrees 31′00″ N, approximate longitude 82 degrees 00′52″ W) and Green Marker ''93'' (approximate latitude 26 degrees 31′37″ N, approximate longitude 81 degrees 59′46″ W), Lee County, Florida; containing approximately 32.6 ha (80.5 acres).

(ii) Watercraft are required to proceed at slow speed (channel included) year-round. Watercraft are prohibited from traveling in excess of slow speed in this area, year-round.

(iii) Map of the Shell Island Manatee Refuge follows (see Shell Island Manatee Refuge):

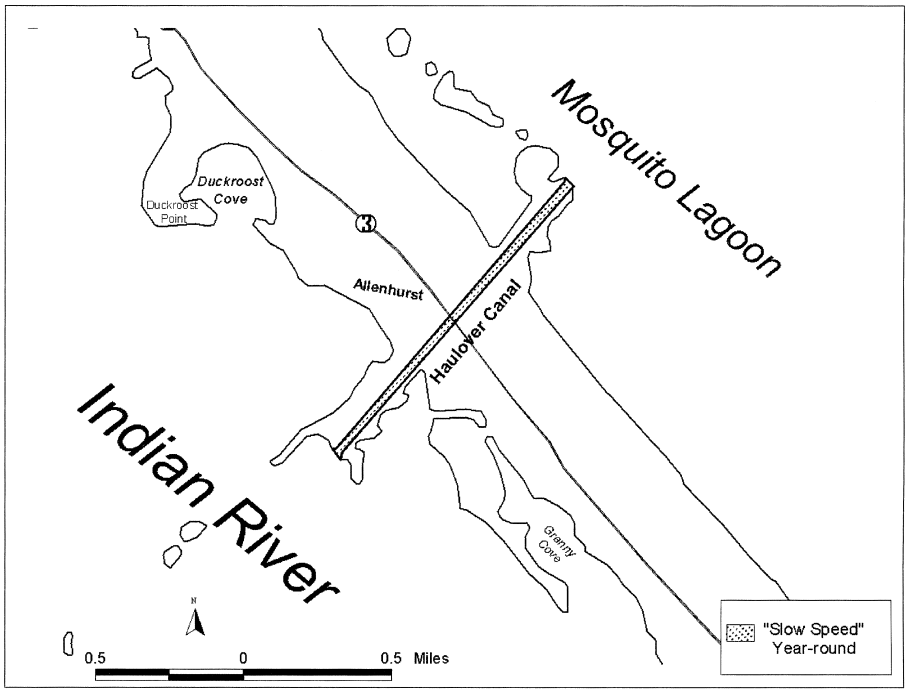


Shell Island Manatee Refuge

(9) *The Haulover Canal Manatee Refuge.* (i) The Haulover Canal Manatee Refuge is described as all waters lying within Haulover Canal in Brevard County, Florida; containing approximately 8.95 ha (22.11 acres).

(ii) Watercraft are required to proceed at slow speed (channel included) year-round. Watercraft are prohibited from traveling in excess of slow speed in this area, year-round.

(iii) Map of the Haulover Canal Manatee Refuge follows (see Haulover Canal Manatee Refuge):



Haulover Canal Manatee Refuge

(10) *The Caloosahatchee River—San Carlos Bay Manatee Refuge.*

(i) The Caloosahatchee River—San Carlos Bay Manatee Refuge is described as all waters of the Caloosahatchee River and San Carlos Bay downstream of the Seaboard Coastline trestle at Beautiful Island to Channel Marker ''93'' and from Channel Marker ''99'' to the Sanibel Causeway, in Lee County. A map showing the refuge and four maps showing specific areas in the refuge are at paragraph (10)(x) of this section.

(ii) From the Seaboard Coastline Railroad trestle at Beautiful Island, downstream to Channel Marker ''25'', a distance of approximately 1.6 kilometers (1 mile), watercraft are required to proceed at slow speed in the marked navigation channel from November 15 to March 31 and at not more than 40 kilometers per hour (km/h) (25 miles per hour) in the channel from April 1 to November 14. See map of ''Edison Bridge Area'' in paragraph (10)(x) of this section.

(iii) From a point 152 meters (500 feet) east of the Edison Bridge downstream to a point 152 meters (500 feet) west of the Caloosahatchee Bridge, approximately 1.1 kilometers (0.7 mile) in length, shoreline-to-shoreline (including the marked navigation channel), watercraft are required to proceed at slow speed (channel included), year-round. See map of ''Edison Bridge Area'' in paragraph (10)(x) of this section.

(iv) From a point 152 meters (500 feet) west of the Caloosahatchee Bridge downstream to a point 152 meters (500 feet) northeast of the Cape Coral Bridge, a distance of approximately 10.9 kilometers (6.8 miles), watercraft are required to proceed year-round at slow speed, while traveling within shoreline buffers extending out from the shore to a minimum distance of approximately 402 meters (1,320 feet), as

marked. Watercraft, with the exception of seaplanes, are required to proceed at not more than 40 km/h (25 miles per hour) throughout the year between these buffers (including the marked navigation channel where not more restrictively designated). See map of ''Cape Coral Bridge Area'' in paragraph (10)(x) of this section.

(v) From a point 152 meters (500 feet) northeast of the Cape Coral Bridge downstream to a point 152 meters (500 feet) southwest of the Cape Coral Bridge, a distance of approximately 0.4 kilometer (0.25 mile), shoreline-to-shoreline (excluding the marked navigation channel), watercraft are required to proceed at slow speed, year-round. In the marked navigation channel, watercraft are required to proceed at not more than 40 km/h (25 miles per hour) throughout the year. See map of ''Cape Coral Bridge Area'' in paragraph (10)(x) of this section.

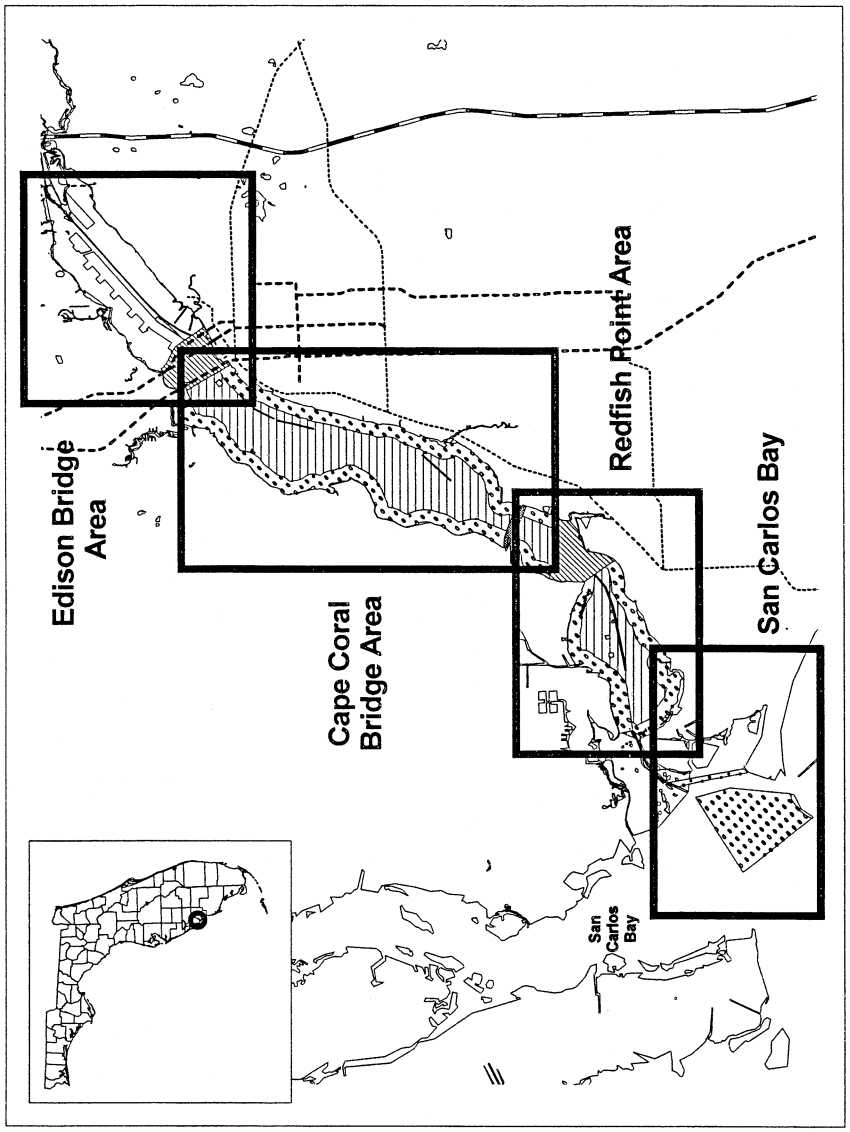
(vi) From a point 152 meters (500 feet) southwest of the Cape Coral Bridge to Channel Marker ''72,'' a distance of approximately 1.9 kilometers (1.2 miles), watercraft are required to proceed year-round at slow speed, while traveling within shoreline buffers extending out from the shore to a minimum distance of approximately 402 meters (1,320 feet), as marked. Watercraft are required to proceed at not more than 40 km/h (25 miles per hour) throughout the year between these buffers (including the marked navigation channel where not more restrictively designated). See map of ''Redfish Point Area'' in paragraph (10)(x) of this section.

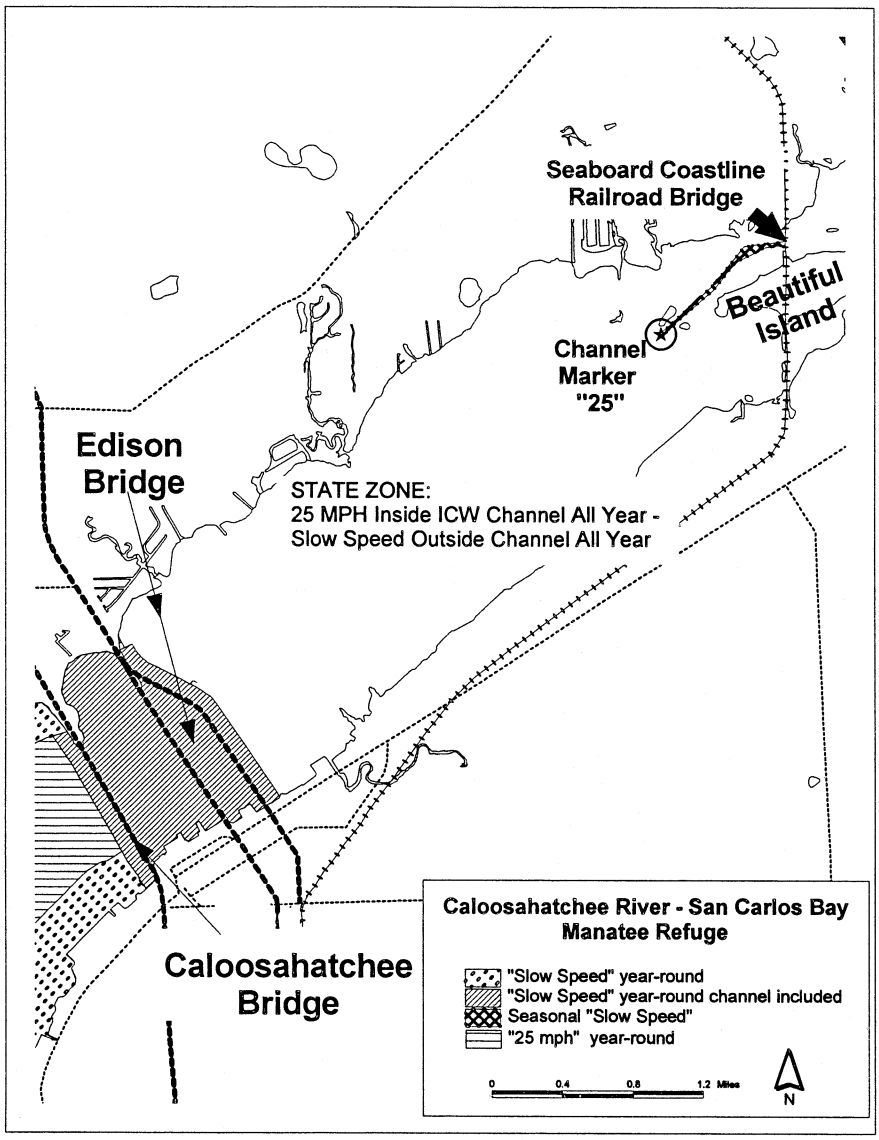
(vii) From Channel Marker ''72'' to Channel Marker ''76'' (in the vicinity of Redfish Point), for a distance of approximately 1.8 kilometers (1.1 miles) in length, shoreline-to-shoreline (including the marked navigation channel), watercraft are required to proceed at slow speed, year-round. See map of ''Redfish Point Area'' in paragraph (10)(x) of this section.

(viii) From Channel Marker ''76'' to Channel Marker ''93,'' a distance of approximately 5.2 kilometers (3.2 miles) in length, watercraft are required to proceed year-round at slow speed, while traveling within shoreline buffers extending out from the shore to a minimum distance of approximately 402 meters (1,320 feet), as marked. Watercraft are required to proceed at not more than 40 km/h (25 miles per hour) throughout the year between these buffers (including the marked navigation channel where not more restrictively designated). See map of ''Redfish Point Area'' in paragraph (10)(x) of this section.

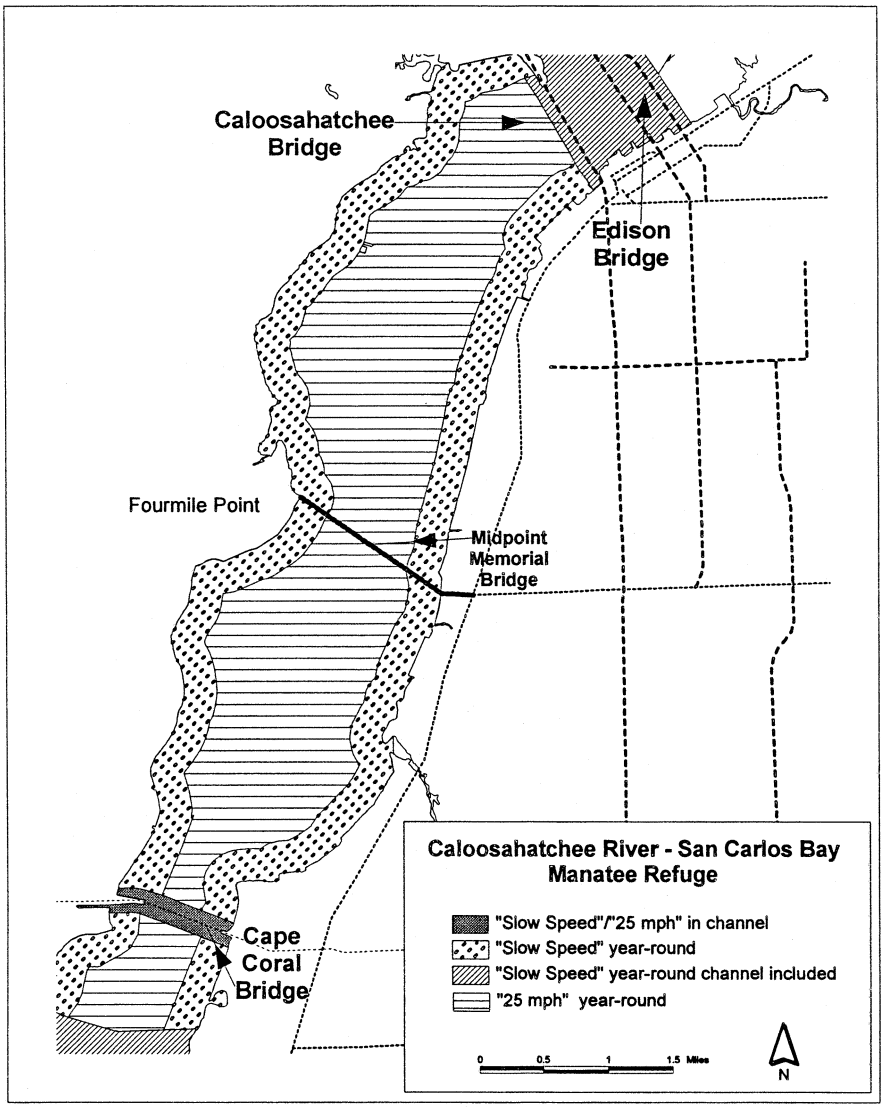
(ix) Except as described below and as marked, from Channel Marker ''99'' to the Sanibel Causeway, watercraft are required to proceed at slow speed year-round in San Carlos Bay within the following limits: A northern boundary described by the southern edge of the marked navigation channel, a line approximately 2.9 kilometers (1.8 miles) in length; a southern boundary described by the Sanibel Causeway (approximately 1.9 kilometers (1.2 miles) in length); a western boundary described by a line that connects the western end of the easternmost Sanibel Causeway island and extending northwest to Channel Marker ''7'' (approximately 2.9 kilometers (1.8 miles) in length); and the eastern boundary includes the western limit of the State-designated manatee protection area (68C–22.005) near Punta Rassa (approximately 2.9 kilometers (1.8 miles) in length). However this area excludes the marked navigation channel from Channel Marker ''99'' to the Sanibel Causeway and adjacent waters, as marked. See map of ''San Carlos Bay'' in paragraph (10)(x) of this section.

(x) Five maps of the Caloosahatchee River—San Carlos Bay Manatee Refuge follow:

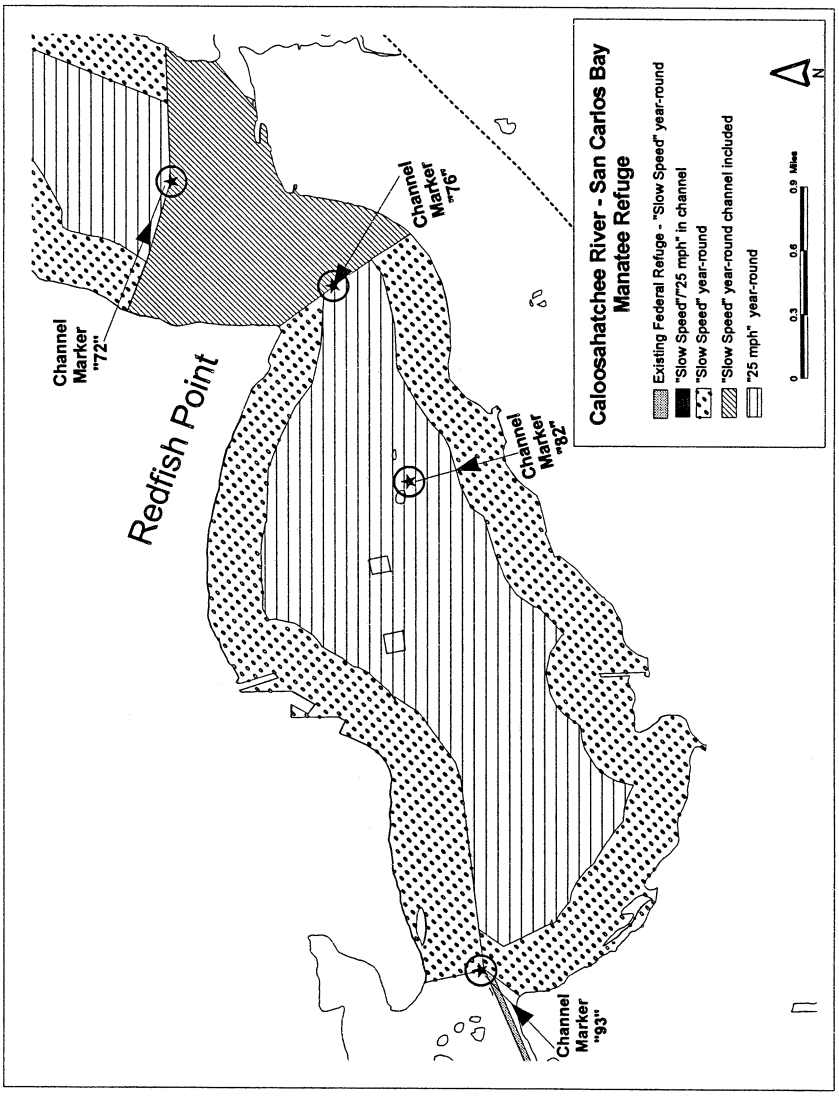

Edison Bridge Area
Cape Coral Bridge Area
Redfish Point Area
San Carlos Bay
San Carlos Bay
Caloosahatchee River - San Carlos Bay Manatee Refuge



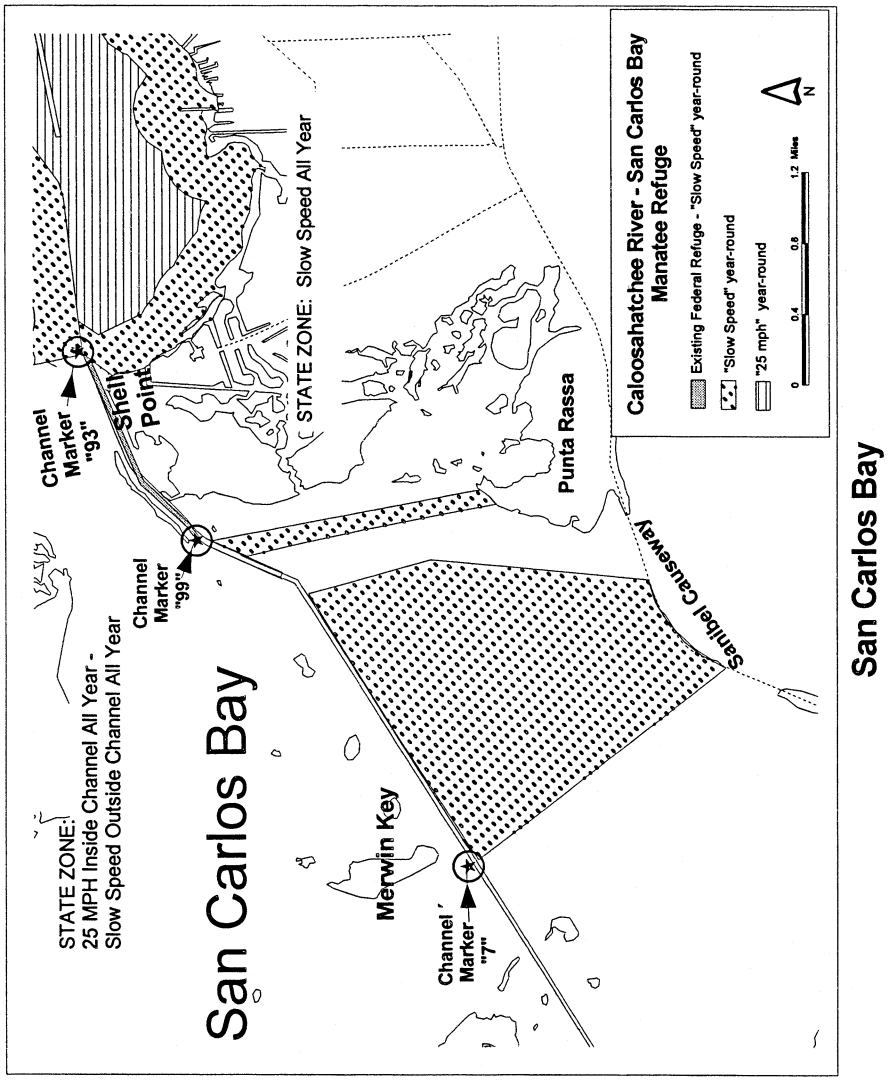
Edison Bridge Area



Cape Coral Bridge Area



Redfish Point Area



(11) *The Lower St. Johns River Manatee Refuge.*

(i) The Lower St. Johns River Manatee Refuge is described as portions of the St. Johns River and adjacent waters in Duval, Clay, and St. Johns Counties from Sandfly Point (the intersection of the right descending bank of the Trout River and the left descending bank of the St. Johns River) and Reddie Point, as marked, upstream to the mouth of Peter's Branch, including Doctors Lake, in Clay County on the western shore, and to the southern shore of the mouth of Julington Creek in St. Johns County on the eastern shore. A map showing the refuge and two maps showing specific areas of the refuge are at paragraph (11)(vi) of this section.

(ii) In the St. Johns River from Sandfly Point on the left descending

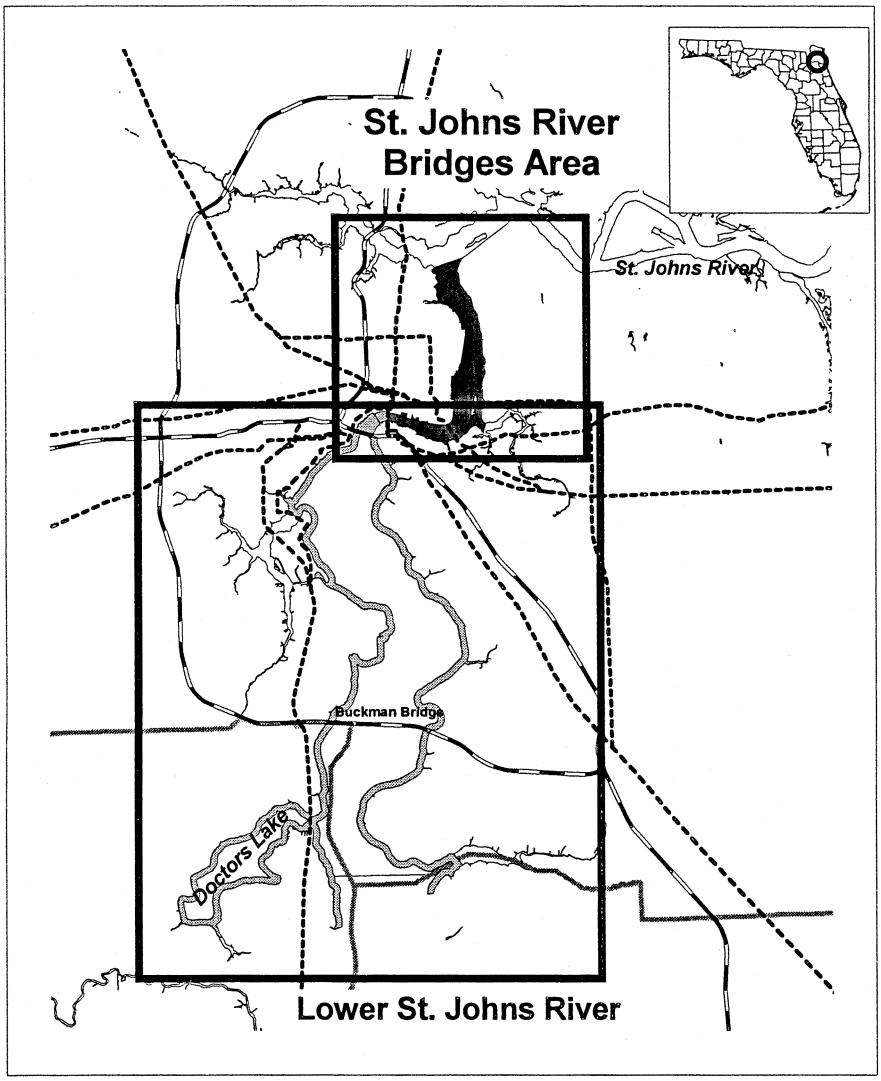
bank of the St. Johns River and Reddie Point on the right descending bank of the St. Johns River, upstream to the Hart Bridge, a distance of approximately 5.5 miles (8.8 km), watercraft are required to proceed at slow speed, year-round, within 300 feet (91 m) of the shoreline on the left descending bank of the St. Johns River and within a buffer as marked, typically about 1,000 feet (305 m) from the shoreline along the right descending bank of the river. The slow speed designation also includes that portion of the river between Exchange Island and the right descending bank, a marked buffer approximately 300 feet (91 m) along the west (channel-ward) shoreline of Exchange Island, and a portion of the Arlington River as marked. Watercraft are also required to proceed at not more than 25 miles per hour (40 km/h), year round, in the area posted as such between these slow speed shoreline buffers. See map of ''St. Johns River Bridges Area'' in paragraph (11)(vi) of this section.

(iii) From the Hart Bridge to the Main Street Bridge, a distance of approximately 2 miles (3.2 km), watercraft are required to proceed at slow speed, year-round, outside the marked navigation channel and at speeds of not more than 25 miles per hour (40 km/h) in the marked channel (from Channel Marker ''81'' to the Main Street Bridge, the channel is defined as the line of sight extending west from Channel Markers ''81'' and ''82'' to the fenders of the Main Street Bridge). See map of ''St. Johns River Bridges Area'' in paragraph (11)(vi) of this section.

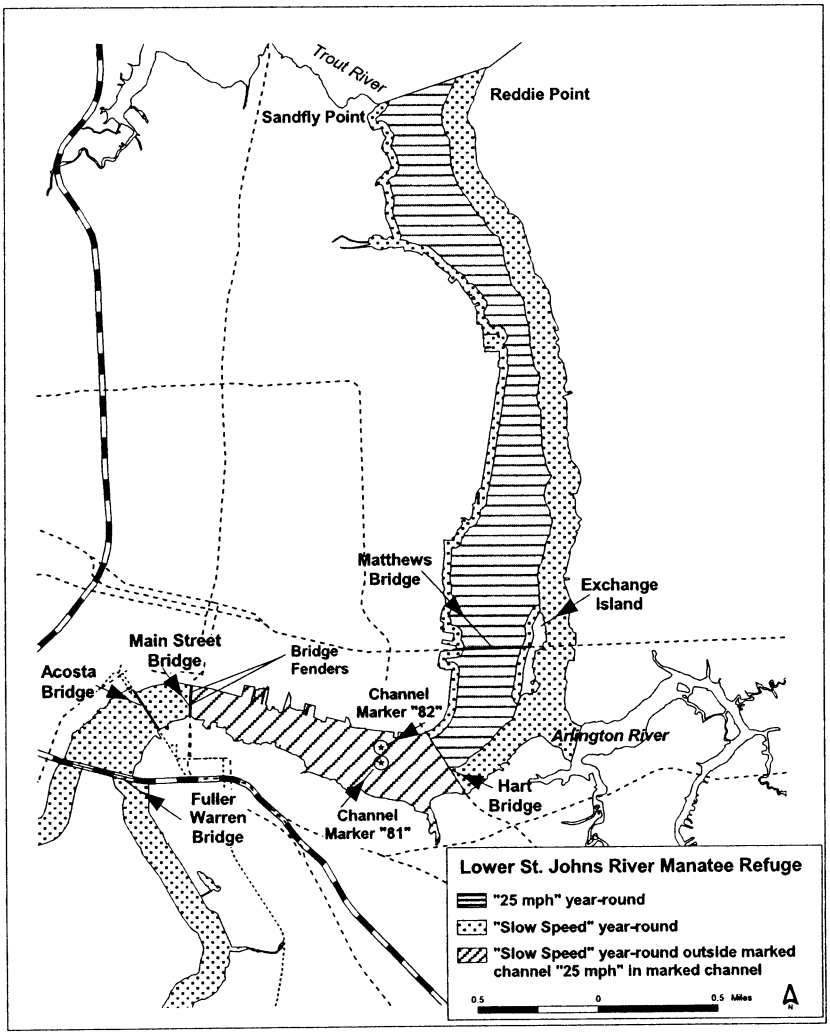
(iv) From the Main Street Bridge to the Fuller Warren Bridge, a distance of approximately 1 mile (1.6 km), shoreline to shoreline, watercraft are required to proceed at slow speed (channel included), year-round. See map of ''St. Johns River Bridges Area'' in paragraph (11)(vi) of this section.

(v) Upstream of the Fuller Warren Bridge: for a distance of approximately 19.3 miles (31.1 km) along the left descending bank of the St. Johns River, watercraft are required to proceed at slow speed, year-round, in a 700-foot (213 m) to 1,000-foot (305 m) as-marked, shoreline buffer from the Fuller Warren Bridge to the south bank of the mouth of Peter's Branch in Clay County; for a distance of approximately 20.2 miles (32.5 km) along the right descending bank of the St. Johns River, watercraft are required to proceed at slow speed, year round, in a 700-foot (213 m) to 1,000-foot (305 m) as marked, shoreline buffer from the Fuller Warren Bridge to the south bank of the mouth of Julington Creek in St. Johns County (defined as a line north of a western extension of the Nature's Hammock Road North); and in Doctors Lake in Clay County watercraft are required to proceed at slow speed, year-round, in a 700-foot (213 m) to 900-foot (274 m) as-marked, shoreline buffer (approximately 12.9 miles (20.8 km)). See map of ''Lower St. Johns River'' in paragraph (11)(vi) of this section.

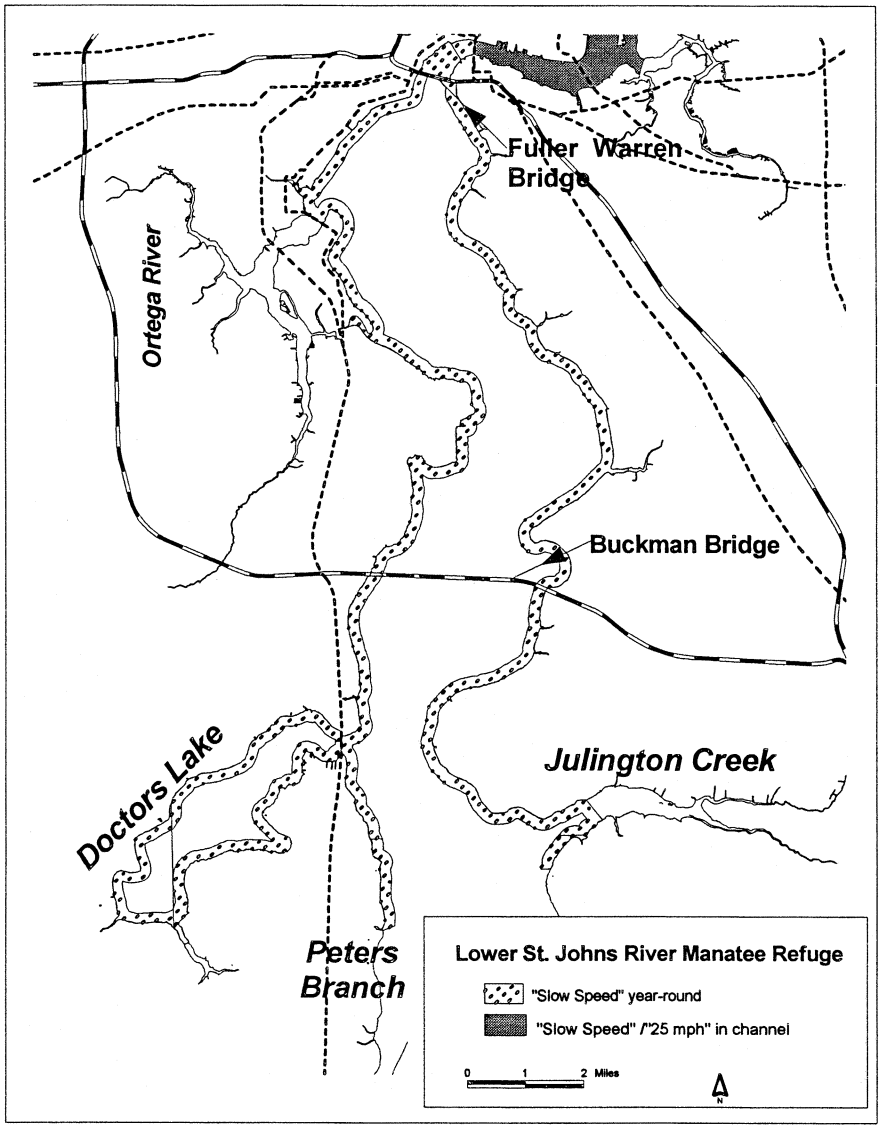
(vi) Three maps of the Lower St. Johns River Manatee Refuge follow:



Lower St. Johns River Manatee Refuge



St. Johns River Bridges Area



Lower St. Johns River

(12) *The Halifax and Tomoka Rivers Manatee Refuge.*

(i) The Halifax and Tomoka Rivers Manatee Refuge is described as the Halifax River and associated waterbodies in Volusia County, from the Volusia County—Flagler County line to New Smyrna Beach. A map showing the refuge and eight maps showing specific areas in the refuge are at paragraph (12)(xii) of this section.

(ii) From the Volusia County—Flagler County line at Halifax Creek

south to Channel Marker ''9,'' a distance of approximately 11.3 kilometers (7.0 miles) in length, watercraft are required to proceed at not more than 40 km/h (km/h)(25 miles per hour) in the channel. See maps of ''Halifax Creek'' and ''Tomoka River Basin'' in paragraph (12)(xii) of this section.

(iii) From Channel Marker ''9'' to a point 152 meters (500 feet) north of the Granada Bridge (State Road 40) (including the Tomoka Basin), a distance of approximately 5.0 km (3.1 miles) in length, watercraft are required to proceed at not more than 40 km/h (25 mph) in areas between the existing 91-meter (300-foot) buffers (and including the marked navigation channel). See maps of ''Tomoka River Basin'' and ''Tomoka River'' in paragraph (12)(xii) of this section.

(iv) In the Tomoka River, from the I–95 Bridge to Alligator Island, as marked, a distance of approximately 1.6 kilometers (1 mile), watercraft are required to proceed at slow speed, shoreline to shoreline, from April 1 to August 31. See map of ''Tomoka River'' in paragraph (12)(xii) of this section.

(v) From 152 meters (500 feet) north to 305 meters (1,000 feet) south of the Granada Bridge (State Road 40), a distance of approximately 0.5 kilometers (0.3 miles) in length, watercraft are required to proceed at slow speed, year-round, shoreline to shoreline. See map of ''Halifax River A'' in paragraph (12)(xii) of this section.

(vi) From a point 305 meters (1,000 feet) south of the Granada Bridge (State Road 40) to a point 152 meters (500 feet) north of the Seabreeze Bridge, a distance of approximately 6.4 km (4.0 miles) in length, watercraft are required to proceed at not more than 40 km/h (25 mph) in areas between the existing 91-meter (300-foot) buffers (and including the marked navigation channel). See map of ''Halifax River A'' in paragraph (12)(xii) of this section.

(vii) As marked, from 152 meters (500 feet) north of the Seabreeze Bridge, to 152 meters (500 feet) north of the Main Street bridge, a distance of approximately 1 kilometer (1 mile) in length, watercraft are required to proceed at slow speed (channel included), year-round. See map of ''Halifax River B'' in paragraph (12)(xii) of this section.

(viii) From Channel Marker ''40'' to a point a minimum of 152 meters (500 feet) north, as marked, of the Dunlawton Bridge, a distance of approximately 14.5 kilometers (9 miles) in length, watercraft are required to proceed at not more than 40 km/h (25 mph) in areas between the existing 91-meter (300-foot) buffers (and including the marked navigation channel). See map of ''Halifax River B'' in paragraph (12)(xii) of this section.

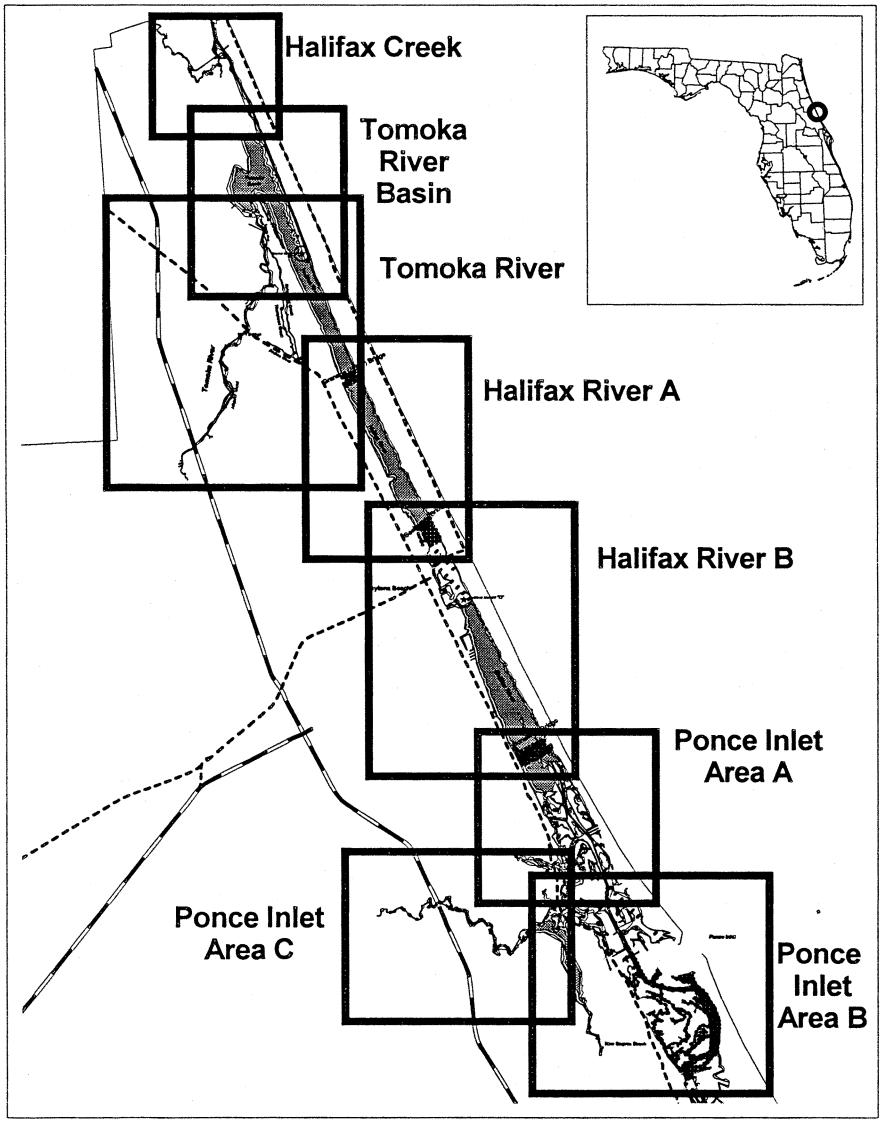
(ix) As marked, a minimum of 152 meters (500 feet) north to 152 meters (500 feet) south of the Dunlawton Bridge, a distance of approximately 0.3 kilometers (0.2 miles) in length, watercraft are required to proceed at slow speed (channel included), year-round, shoreline to shoreline; and adjacent to the western shoreline of the Halifax River north of the Dunlawton Bridge for a distance of approximately 640 meters (2,100 feet), and a minimum of 91 meters (300 feet) from shore, as marked, watercraft are required to proceed at slow speed, year-round. See map of ''Halifax River B'' in paragraph (12)(xii) of this section.

(x) As marked, from a minimum of 152 meters (500 feet) south of the Dunlawton Bridge to Redland Canal, a distance of approximately 10.5 kilometers (6.5 miles) in length, watercraft are required to proceed at not more than 40 km/h (25 mph) in waters not more restrictively designated; along the western shore of the Halifax River, a distance of approximately 3.1 km (1.95 miles), watercraft are required to proceed at not more than 40 km/h (25 mph) in the waters not more restrictively designated; in Rose Bay, a distance of approximately 2.7 km (1.7 miles), watercraft are required to proceed at not more than 40 km/h (25 mph) in waters not more restrictively designated; in Turnbull Bay, a distance of approximately 3.9 km (2.4 miles), watercraft are required to proceed at not more than 40 km/h (25 mph) in waters not more restrictively designated. See maps of ''Ponce Inlet Area A,'' ''Ponce Inlet Area B,'' and ''Ponce Inlet Area C'' in paragraph (12)(xii) of this section.

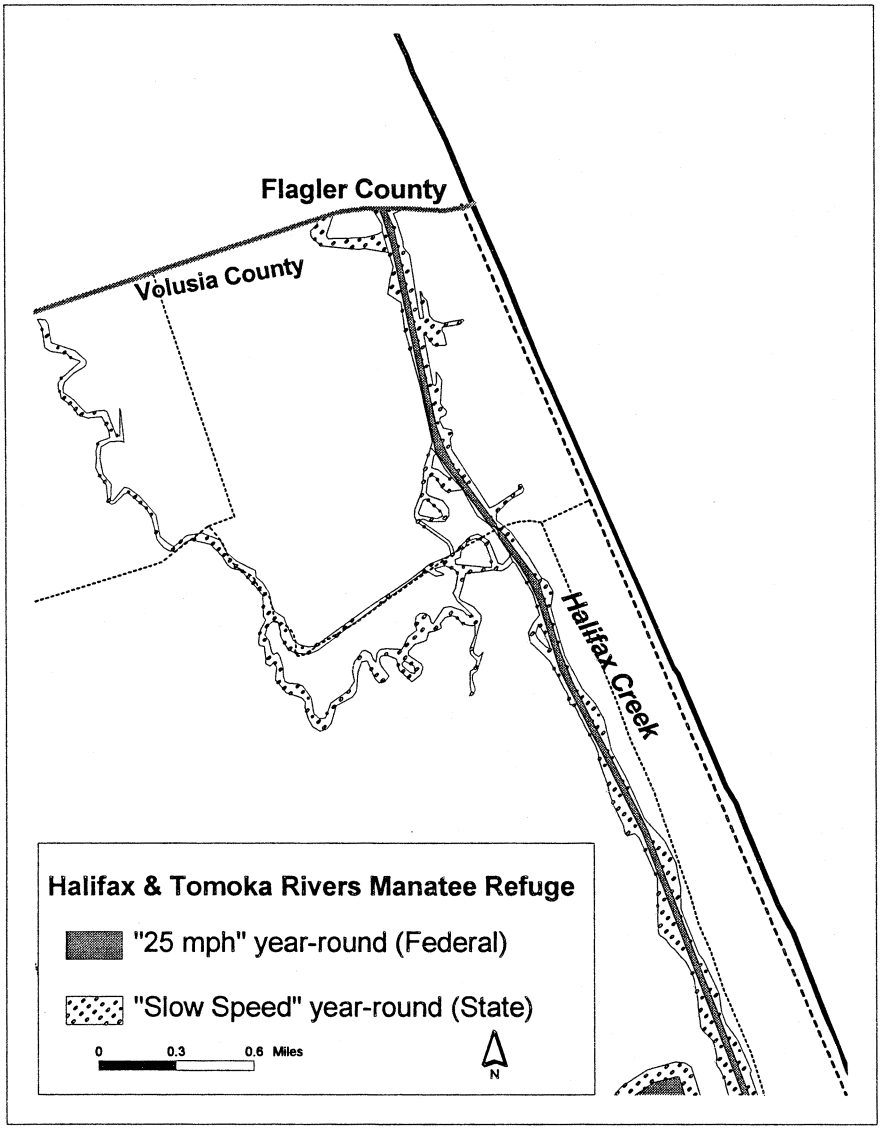
(xi) As marked, in the Intracoastal Waterway and adjacent waters from Redland Canal to the A1A Bridge (New

Smyrna Beach, for a distance of approximately 5.3 kilometers (3.3 miles) in length, watercraft are required to proceed at slow speed (channel included), year-round. See map of ''Ponce Inlet Area B'' in paragraph (12)(xii) of this section.

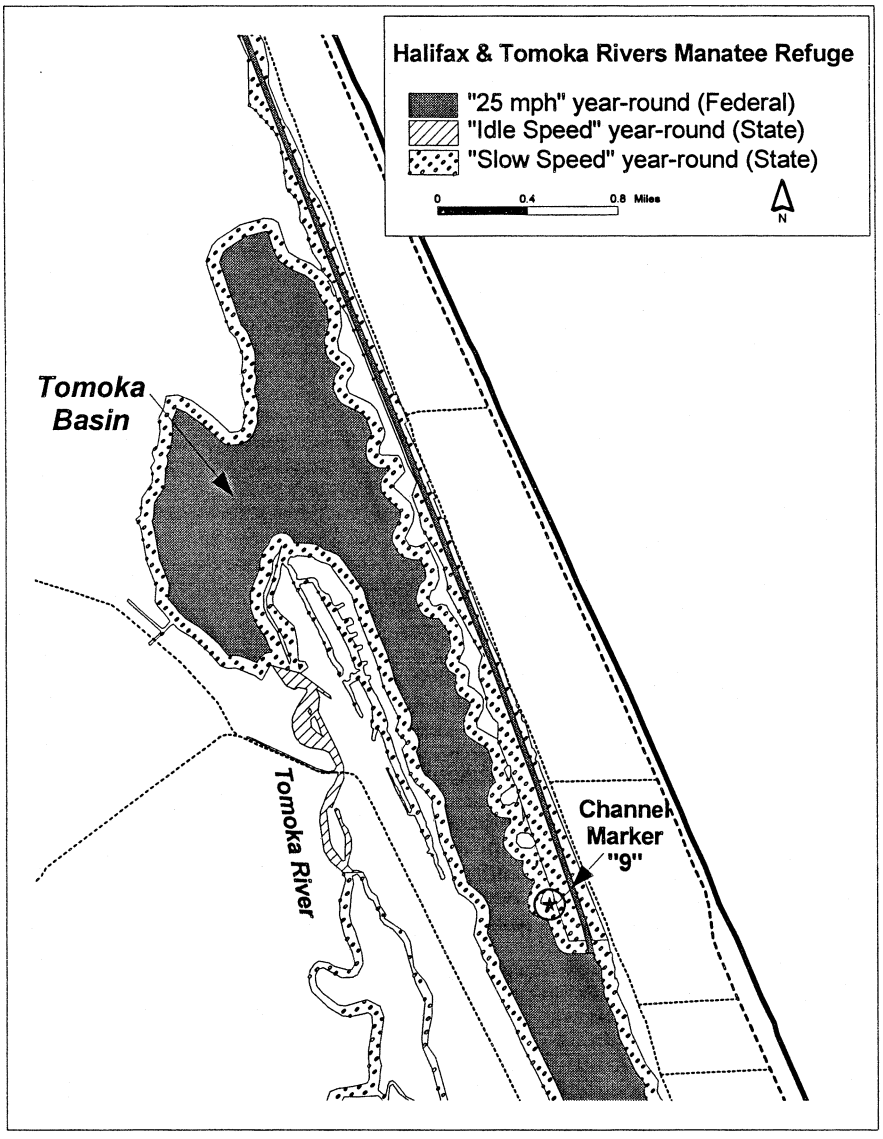
(xii) Nine maps of the Halifax and Tomoka Rivers Manatee Refuge follow:



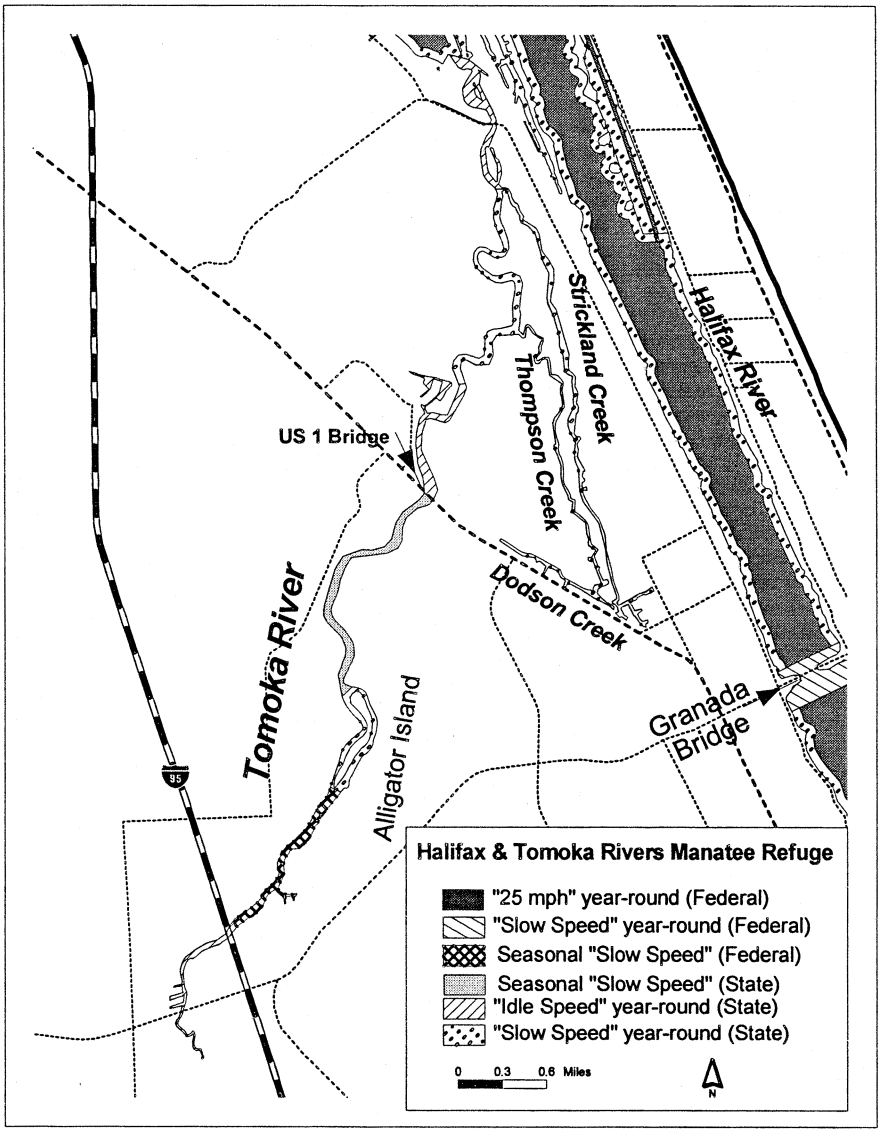
Halifax & Tomoka Rivers Manatee Refuge



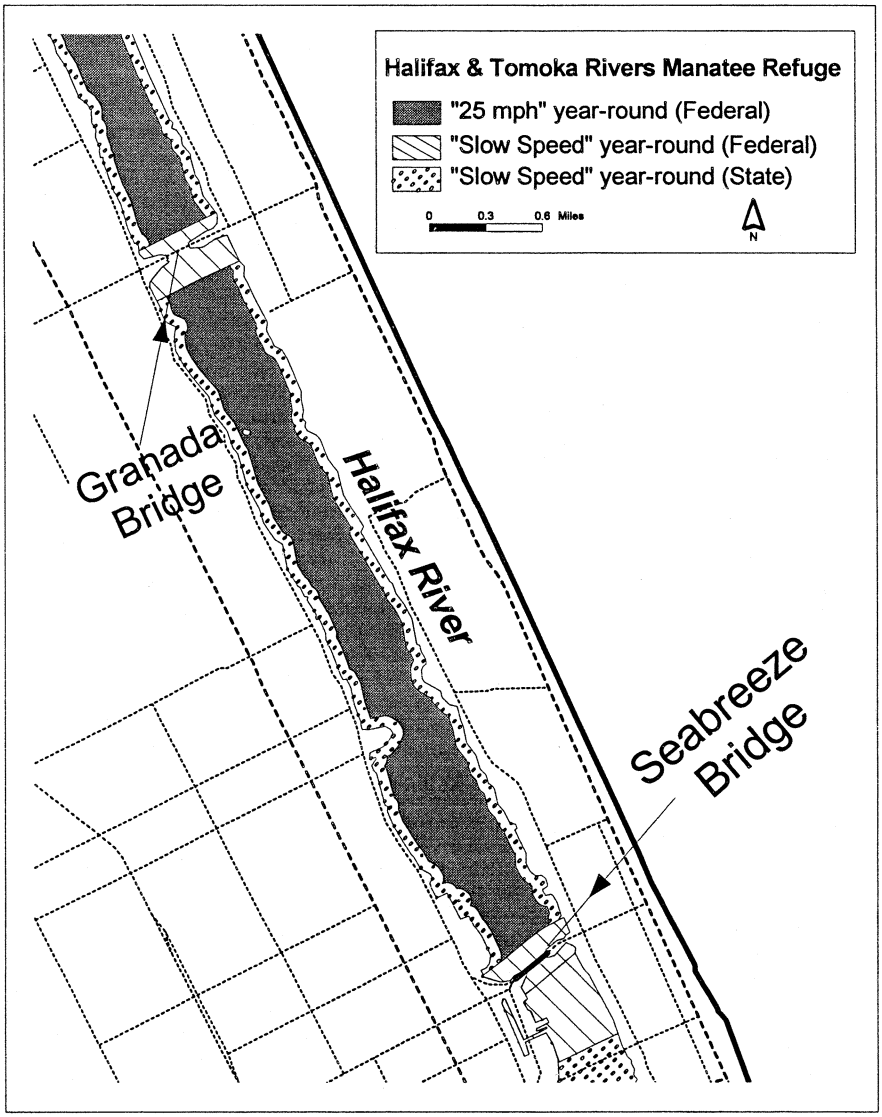
Halifax Creek



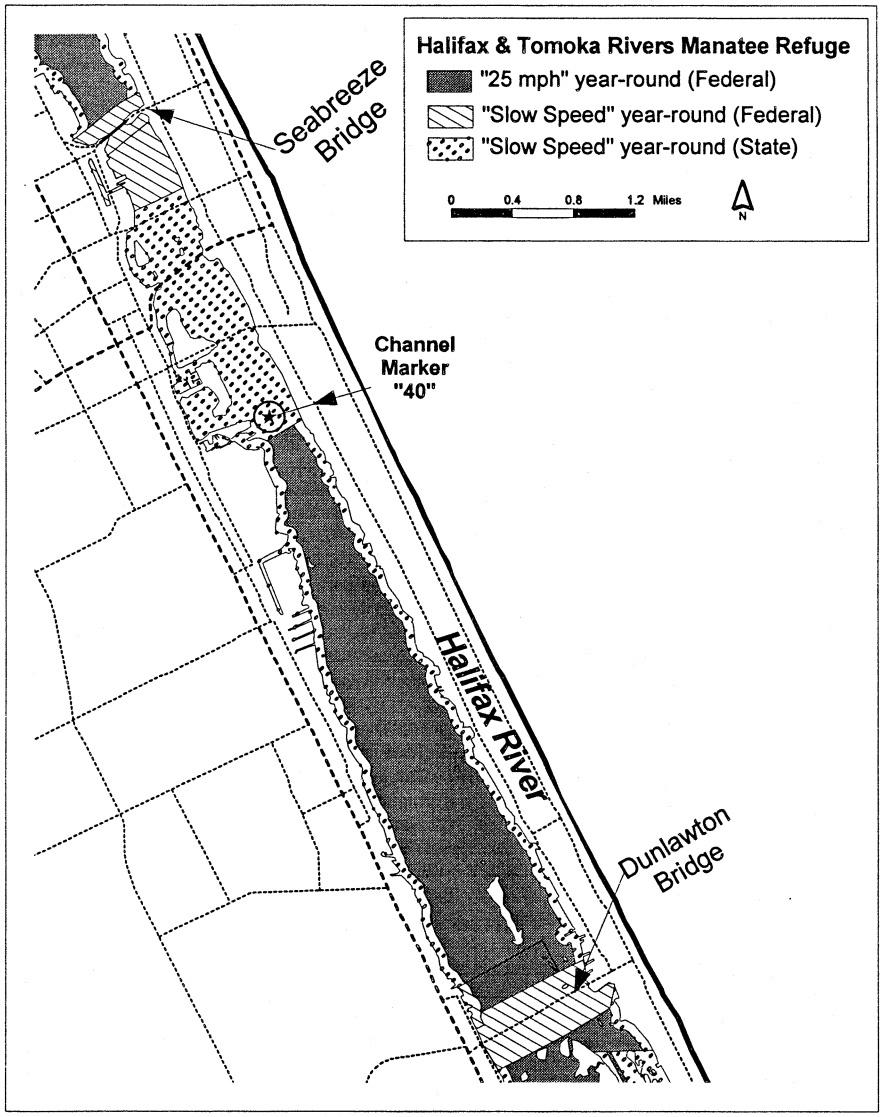
Tomoka River Basin



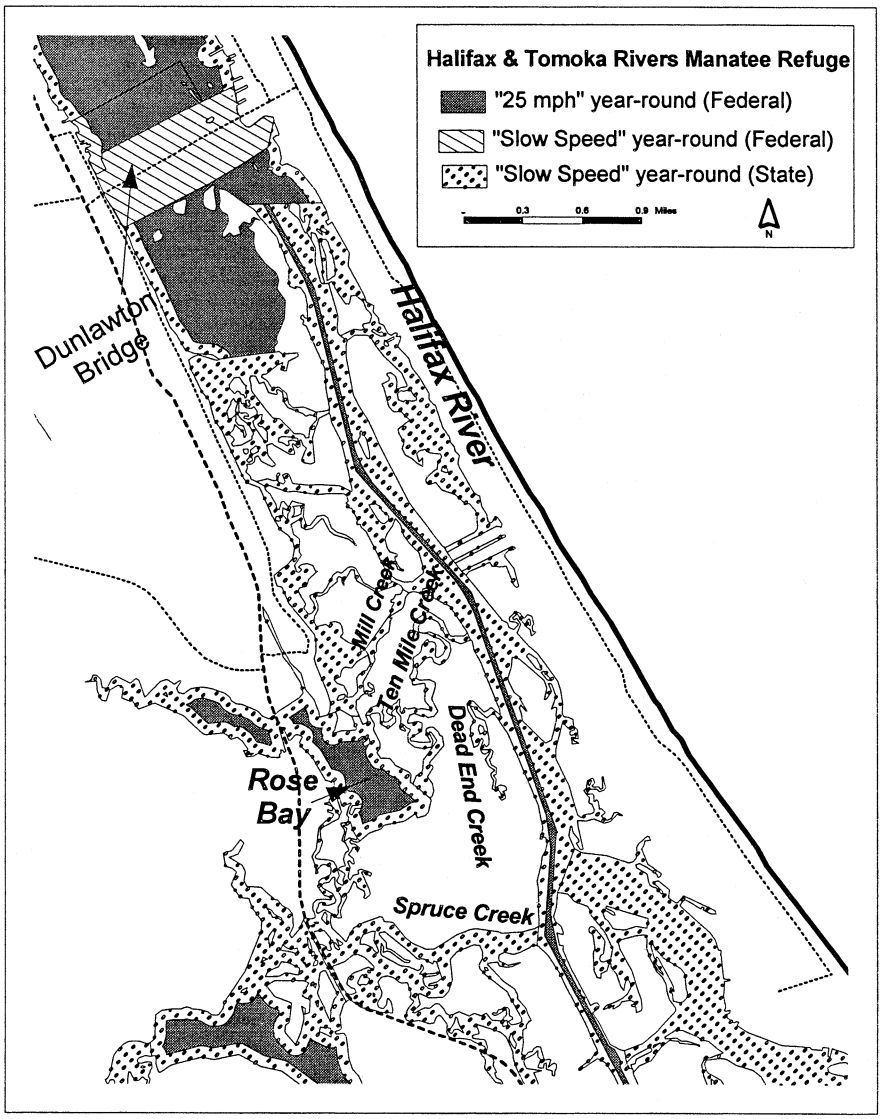
Tomoka River



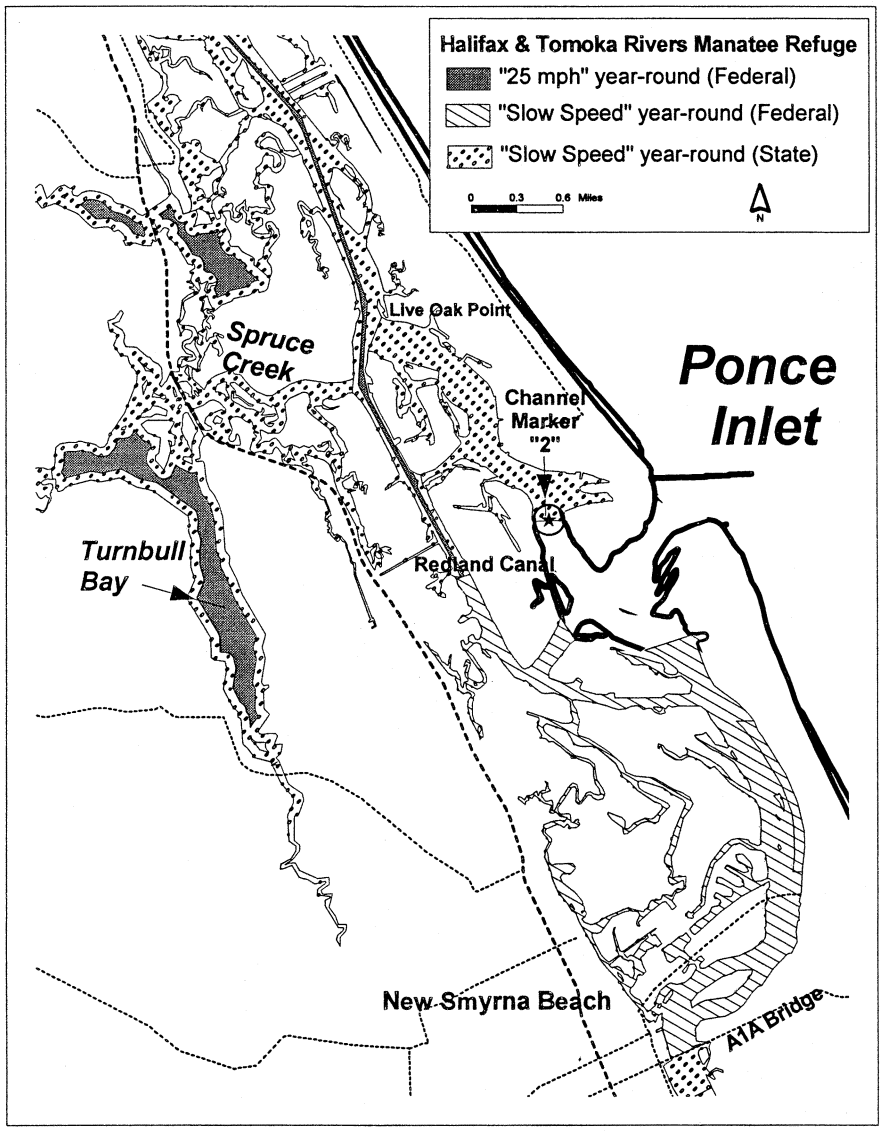
Halifax River A



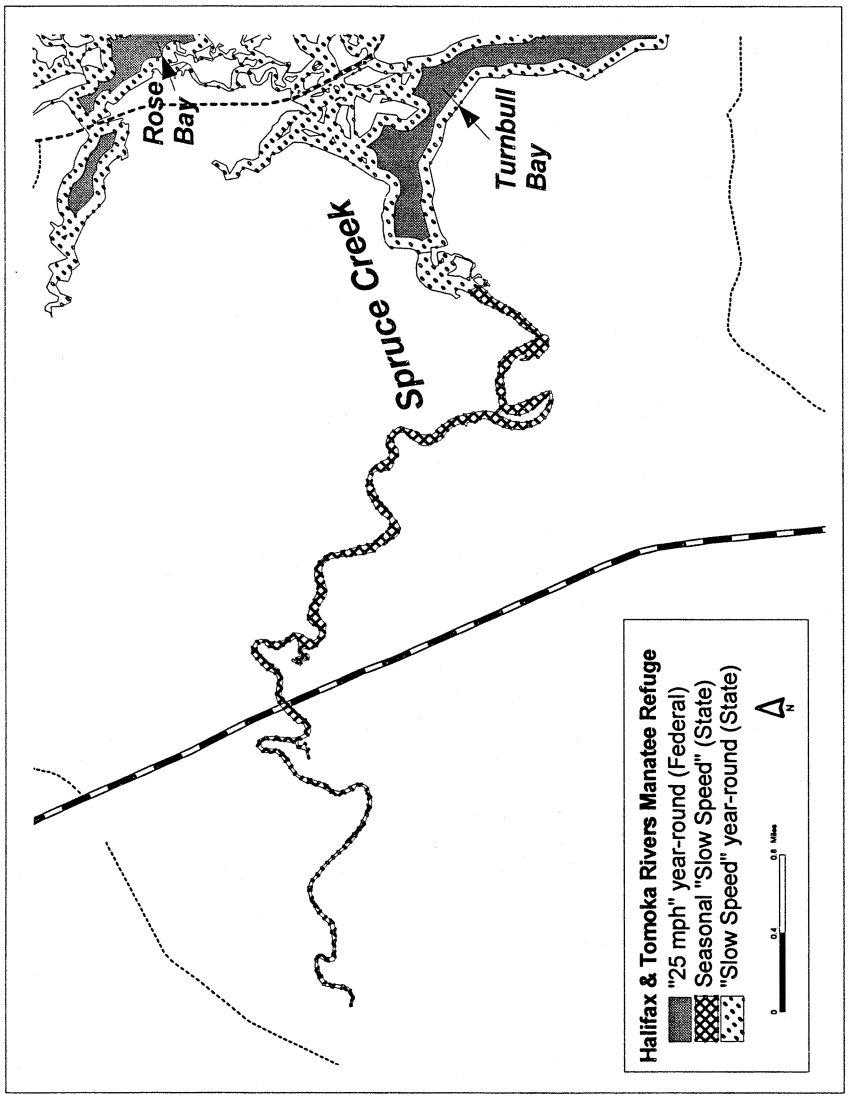
Halifax River B



Ponce Inlet Area A



Ponce Inlet Area B



(13) *The Pine Island-Estero Bay Manatee Refuge.* (i) Watercraft are required to proceed at slow speed all year in all waters of Matlacha Pass, south of a line that bears 90° and 270° from Matlacha Pass Green Channel Marker 77 (approximate latitude 26°40′00″ North, approximate longitude 82°06′00″ West), and north of Pine Island Road (State Road 78), excluding:

(A) The portion of the marked channel otherwise designated in paragraph (c)(13)(iii) of this section;

(B) All waters of Buzzard Bay east and northeast of a line beginning at a point (approximate latitude 26°40′00″ North, approximate longitude 82°05′20″ West) on the southwest shoreline of an unnamed mangrove island east of Matlacha Pass Green Channel Marker

77 and bearing 219° to the northeasternmost point (approximate latitude 26°39′58″ North, approximate longitude 82°05′23″ West) of another unnamed mangrove island, then running along the eastern shoreline of said island to its southeasternmost point (approximate latitude 26°39′36″ North, approximate longitude 82°05′09″ West), then bearing 115° to the westernmost point (approximate latitude 26°39′34″ North, approximate longitude 82°05′05″ West) of the unnamed mangrove island to the southeast, then running along the western shoreline of said island to its southwesternmost point (approximate latitude 26°39′22″ North, approximate longitude 82°04′53″ West), then bearing 123° to the northwesternmost point (approximate latitude 26°39′21″ North, approximate longitude 82°04′52″ West) of an unnamed mangrove island, then running along the western shoreline of said island to its southeasternmost point (approximate latitude 26°39′09″ North, approximate longitude 82°04′44″ West), then bearing 103° to the northwesternmost point (approximate latitude 26°39′08″ North, approximate longitude 82°04′41″ West) of a peninsula on the unnamed mangrove island to the southeast, then running along the southwestern shoreline of said island to its southeasternmost point (approximate latitude 26°38′51″ North, approximate longitude 82°04′18″ West), then bearing 99° to the southernmost point (approximate latitude 26°38′50″ North, approximate longitude 82°04′03″ West) of the unnamed mangrove island to the east, then bearing 90° to the line's terminus at a point (approximate latitude 26°38′50″ North, approximate longitude 82°03′55″ West) on the eastern shoreline of Matlacha Pass; and

(C) All waters of Pine Island Creek and Matlacha Pass north of Pine Island Road (State Road 78) and west and southwest of a line beginning at a point (approximate latitude 26°39′29″ North, approximate longitude 82°06′29″ West) on the western shoreline of Matlacha Pass and bearing 160° to the westernmost point (approximate latitude 26°39′25″ North, approximate longitude 82°06′28″ West) of an unnamed island, then running along the western shoreline of said island to its southernmost point (approximate latitude 26°39′18″ North, approximate longitude 82°06′24″ West), then bearing 128° to the northernmost point (approximate latitude 26°39′12″ North, approximate longitude 82°06′17″ West) of an unnamed mangrove island to the south, then running along the eastern shoreline of said island to its southeasternmost point (approximate latitude 26°39′00″ North, approximate longitude 82°06′09″ West), then bearing 138° to a point (approximate latitude 26°38′45″ North, approximate longitude 82°05′53″ West) on the northern shoreline of Bear Key, then running along the northern shoreline of Bear Key to its easternmost point (approximate latitude 26°38′44″ North, approximate longitude 82°05′46″ West), then bearing 85° to the westernmost point (approximate latitude 26°38′45″ North, approximate longitude 82°05′32″ West) of Deer Key, then running along the northern shoreline of Deer Key to its easternmost point (approximate latitude 26°38′46″ North, approximate longitude 82°05′22″ West), then bearing 103° to the northwesternmost point (approximate latitude 26°38′45″ North, approximate longitude 82°05′17″ West) of the unnamed mangrove island to the east, then running along the western shoreline of said island to its southernmost point (approximate latitude 26°38′30″ North, approximate longitude 82°05′04″ West), then bearing 106° to the westernmost point (approximate latitude 26°38′30″ North, approximate longitude 82°04′57″ West) of the unnamed island to the southeast, then running along the northern and eastern shorelines of said island to a point (approximate latitude 26°38′23″ North, approximate longitude 82°04′51″ West) on its eastern shoreline, then bearing 113° to the northernmost point of West Island (approximate latitude 26°38′21″ North, approximate longitude 82°04′37″ West), then running along the western shoreline of West Island to the point where the line intersects Pine Island Road (State Road 78).

(ii) Watercraft are required to proceed at slow speed all year in all waters of Matlacha Pass, St. James Creek, and San Carlos Bay, south of Pine Island Road (State Road 78), north of a line 500 feet northwest of and parallel to the main marked channel of the Intracoastal Waterway, west of a line that

bears 302° from Intracoastal Waterway Green Channel Marker 99 (approximate latitude 26°31′00″ North, approximate longitude 82°00′52″ West), and east of a line that bears 360° from Intracoastal Waterway Red Channel Marker 10 (approximate latitude 26°29′16″ North, approximate longitude 82°03′35″ West), excluding:

(A) The portions of the marked channels otherwise designated in paragraphs (c)(15)(iv) and (v) of this section;

(B) All waters of Matlacha Pass south of Pine Island Road (State Road 78) and west of the western shoreline of West Island and a line beginning at the southernmost point (approximate latitude 26°37′25″ North, approximate longitude 82°04′17″ West) of West Island and bearing 149° to the northernmost point (approximate latitude 26°37′18″ North, approximate longitude 82°04′12″ West) of the unnamed mangrove island to the south, then running along the eastern shoreline of said island to its southernmost point (approximate latitude 26°36′55″ North, approximate longitude 82°04′02″ West), then bearing 163° to the line's terminus at a point (approximate latitude 26°36′44″ North, approximate longitude 82°03′58″ West) on the eastern shoreline of Little Pine Island;

(C) All waters of Matlacha Pass, Pontoon Bay, and associated embayments south of Pine Island Road (State Road 78) and east of a line beginning at a point (approximate latitude 26°38′12″ North, approximate longitude 82°03′46″ West) on the northwestern shoreline of the embayment on the east side of Matlacha Pass, immediately south of Pine Island Road and then running along the eastern shoreline of the unnamed island to the south to its southeasternmost point (approximate latitude 26°37′30″ North, approximate longitude 82°03′22″ West), then bearing 163° to the northwesternmost point of the unnamed island to the south, then running along the western shoreline of said island to its southernmost point (approximate latitude 26°37′15″ North, approximate longitude 82°03′15″ West), then bearing 186° to the line's terminus at a point (approximate latitude 26°37′10″ North, approximate longitude 82°03′16″ West) on the eastern shoreline of Matlacha Pass;

(D) All waters of Pine Island Creek south of Pine Island Road (State Road 78); and all waters of Matlacha Pass, Rock Creek, and the Mud Hole, west of a line beginning at a point (approximate latitude 26°33′52″ North, approximate longitude 82°04′53″ West) on the western shoreline of Matlacha Pass and bearing 22° to a point (approximate latitude 26°34′09″ North, approximate longitude 82°04′45″ West) on the southern shoreline of the unnamed island to the northeast, then running along the southern and eastern shorelines of said island to a point (approximate latitude 26°34′15″ North, approximate longitude 82°04′39″ West) on its northeastern shoreline, then bearing 24° to a point (approximate latitude 26°34′21″ North, approximate longitude 82°04′36″ West) on the southern shoreline of the large unnamed island to the north, then running along the southern and eastern shorelines of said island to a point (approximate latitude 26°34′31″ North, approximate longitude 82°04′29″ West) on its eastern shoreline, then bearing 41° to the southernmost point (approximate latitude 26°34′39″ North, approximate longitude 82°04′22″ West) of another unnamed island to the northeast, then running along the eastern shoreline of said island to its northwesternmost point (approximate latitude 26°35′22″ North, approximate longitude 82°04′07″ West), then bearing 2° to the southernmost point (approximate latitude 26°35′32″ North, approximate longitude 82°04′07″ West) of the unnamed island to the north, then running along the eastern shoreline of said island to its northernmost point (approximate latitude 26°35′51″ North, approximate longitude 82°03′59″ West), then bearing 353° to the line's terminus at a point (approximate latitude 26°36′08″ North, approximate longitude 82°04′01″ West) on the eastern shoreline of Little Pine Island; and

(E) All waters of Punta Blanca Bay and Punta Blanca Creek, east of the eastern shoreline of Matlacha Pass and east and north of the eastern and northern shorelines of San Carlos Bay.

(iii) Watercraft may not exceed 25 miles per hour, all year, in all waters within the main marked channel in Matlacha Pass south of Green Channel Marker 77 (approximate latitude

26°40′00″ North, approximate longitude 82°06′00″ West) and north of a line perpendicular to the channel at a point in the channel ¼ mile northwest of the Pine Island Road Bridge (State Road 78).

(iv) Watercraft may not exceed 25 miles per hour, all year, in all waters within the main marked channel in Matlacha Pass south of a line perpendicular to the channel at a point in the channel ¼ mile southeast of the Pine Island Road Bridge (State Road 78), and north of a line 500 feet northwest of and parallel to the main marked channel of the Intracoastal Waterway (just north of Green Channel Marker 1).

(v) Watercraft may not exceed 25 miles per hour, all year, in all waters within the marked channel in Matlacha Pass that intersects the main Matlacha Pass channel near Green Channel Marker 15 (approximate latitude 26°31′57″ North, approximate longitude 82°03′38″ West) and intersects the main marked channel of the Intracoastal Waterway near Green Channel Marker 101 (approximate latitude 26°30′39″ North, approximate longitude 82°01′00″ West).

(vi) Watercraft are required to proceed at slow speed from April 1 through November 15 in all canals and boat basins of St. James City and the waters known as Long Cut and Short Cut; and all waters of Pine Island Sound and San Carlos Bay south of a line beginning at the southernmost tip (approximate latitude 26°31′28″ North, approximate longitude 82°06′19″ West) of a mangrove peninsula on the western shore of Pine Island approximately 2200 feet north of Galt Island and bearing 309° to the southeasternmost point (approximate latitude 26°31′32″ North, approximate longitude 82°06′25″ West) of another mangrove peninsula, then running along the southern shoreline of said peninsula to its southwesternmost point (approximate latitude 26°31′40″ North, approximate longitude 82°06′38″ West), then bearing 248° to a point (approximate latitude 26°31′40″ North, approximate longitude 82°06′39″ West) on the eastern shoreline of an unnamed mangrove island, then running along the southern shoreline of said island to its southwesternmost point (approximate latitude 26°31′39″ North, approximate longitude 82°06′44″ West), then bearing 206° to the line's terminus at the northernmost point of the Mac Keever Keys (approximate latitude 26°31′09″ North, approximate longitude 82°07′09″ West), east of a line beginning at said northernmost point of the Mac Keever Keys and running along and between the general contour of the western shorelines of said keys to a point (approximate latitude 26°30′27″ North, approximate longitude 82°07′08″ West) on the southernmost of the Mac Keever Keys, then bearing 201° to a point (approximate latitude 26°30′01″ North, approximate longitude 82°07′19″ West) approximately 150 feet due east of the southeasternmost point of Chino Island, then bearing approximately 162° to Red Intracoastal Waterway Channel Marker 22 (approximate latitude 26°28′57″ North, approximate longitude 82°06′55″ West), then bearing approximately 117° to the line's terminus at Red Intracoastal Waterway Channel Marker 20 (approximate latitude 26°28′45″ North, approximate longitude 82°06′38″ West), north of a line beginning at said Red Intracoastal Waterway Channel Marker 20 and bearing 86° to a point (approximate latitude 26°28′50″ North, approximate longitude 82°05′48″ West) ¼ mile south of York Island, then running parallel to and ¼ mile south of the general contour of the southern shorelines of York Island and Pine Island to the line's terminus at a point on a line bearing 360° from Red Intracoastal Waterway Channel Marker 10 (approximate latitude 26°29′16″ North, approximate longitude 82°03′35″ West), and west and southwest of the general contour of the western and southern shorelines of Pine Island and a line that bears 360° from said Red Intracoastal Waterway Channel Marker 10, excluding the portion of the marked channel otherwise designated in paragraph (c)(13)(vii) of this section.

(vii) Watercraft may not exceed 25 miles per hour from April 1 through November 15 in all waters of the marked channel that runs north of the power lines from the Cherry Estates area of St. James City into Pine Island Sound, east of the western boundary of the zone designated in 17.108(c)(13)(vi), and west of a line perpendicular to the

power lines that begins at the easternmost point (approximate latitude 26°30′25″ North, approximate longitude 82°06′15″ West) of the mangrove island on the north side of the power lines approximately 1,800 feet southwest of the Galt Island Causeway.

(viii) Watercraft are required to proceed at slow speed all year in all waters of San Carlos Bay and Punta Rassa Cove east of a line that bears 352° from the northernmost tip of the northern peninsula on Punta Rassa (approximate latitude 26°29′44″ North, approximate longitude 82°00′33″ West), and south of a line that bears 122° from Intracoastal Waterway Green Channel Marker 99 (approximate latitude 26°31′00″ North, approximate longitude 82°00′52″ West), including all waters of Shell Creek and associated waterways.

(ix) Watercraft are required to proceed at slow speed all year in all waters of San Carlos Bay and the Caloosahatchee River, including the residential canals of Cape Coral, northeast of a line that bears 302° and 122° from Intracoastal Waterway Green Channel Marker 99 (approximate latitude 26°31′00″ North, approximate longitude 82°00′52″ West), west of a line that bears 346° from Intracoastal Waterway Green Channel Marker 93 (approximate latitude 26°31′37″ North, approximate longitude 81°59′46″ West), and north and northwest of the general contour of the northwestern shoreline of Shell Point and a line that bears approximately 74° from the northernmost tip (approximate latitude 26°31′31″ North, approximate longitude 81°59′57″ West) of Shell Point to said Intracoastal Waterway Green Channel Marker 93, excluding the Intracoastal Waterway between markers 93 and 99 (which is already designated as a Federal manatee protection area, requiring watercraft to proceed at slow speed, and is not impacted by this rule).

(x) Watercraft are required to proceed at slow speed from April 1 through November 15 and at not more than 25 miles per hour the remainder of the year in all waters of Hell Peckney Bay southeast of Hurricane Bay, northeast of the northern shorelines of Julies Island and the unnamed island immediately northwest of Julies Island and a line that bears 312° from the northwesternmost point of Julies Island (approximate latitude 26°26′37″ North, approximate longitude 81°54′57″ West), northwest of Estero Bay, and southwest of a line beginning at the southernmost point (approximate latitude 26°27′23″ North, approximate longitude 81°55′11″ West) of an unnamed mangrove peninsula in northwest Hell Peckney Bay and bearing 191° to the northernmost point (approximate latitude 26°27′19″ North, approximate longitude 81°55′11″ West) of an unnamed mangrove island, then running along the northern shoreline of said island to its southeasternmost point (approximate latitude 26°27′11″ North, approximate longitude 81°55′05″ West), then bearing 115° to a point (approximate latitude 26°27′03″ North, approximate longitude 81°54′47″ West) on the northwest shoreline of an unnamed mangrove island, then running along the northern shoreline of said island to its northeasternmost point (approximate latitude 26°27′02″ North, approximate longitude 81°54′33″ West), and then bearing 37° to the line's terminus at the westernmost point of an unnamed mangrove peninsula in eastern Hell Peckney Bay.

(xi) Watercraft are required to proceed at slow speed from April 1 through November 15 and at not more than 25 miles per hour the remainder of the year in all waters of Hendry Creek south of a line that bears 270° from a point (approximate latitude 26°28′40″ North, approximate longitude 81°52′56″ West) on the eastern shoreline of Hendry Creek; and all waters of Estero Bay southeast and east of Hell Peckney Bay, a line that bears 340° from a point (approximate latitude 26°25′56″ North, approximate longitude 81°54′25″ West) on the northern tip of an unnamed mangrove peninsula on the northeastern shoreline of Estero Island, and the northern shoreline of Estero Island, south of Hendry Creek and a line that bears 135° and 315° from Red Channel Marker 18 (approximate latitude 26°27′46″ North, approximate longitude 81°52′00″ West) in Mullock Creek, and north of a line that bears 72° from the northernmost point (approximate latitude 26°24′22″ North, approximate longitude 81°52′34″ West) of Black Island,

including the waters of Buccaneer Lagoon at the southern end of Estero Island, but excluding:

(A) The portions of the marked channels otherwise designated in paragraph (c)(13)(xiii) of this section;

(B) The Estero River; and

(C) To waters of Big Carlos Pass east of a line beginning at a point (approximate latitude 26°24′34″ North, approximate longitude 81°53′05″ West) on the eastern shoreline of Estero Island and bearing 36° to a point (approximate latitude 26°24′40″ North, approximate longitude 81°53′00″ West) on the southern shoreline of Coon Key, south of a line beginning at a point (approximate latitude 26°24′36″ North, approximate longitude 81°52′30″ West) on the eastern shoreline of Coon Key and bearing 106° to a point (approximate latitude 26°24′39″ North, approximate longitude 81°52′34″ West) on the southwestern shoreline of the unnamed mangrove island north of Black Island, and west of a line beginning at a point (approximate latitude 26°24′36″ North, approximate longitude 81°52′30″ West) on the southern shoreline of said unnamed mangrove island north of Black Island and bearing 192° to the northernmost point (approximate latitude 26°24′22″ North, approximate longitude 81°52′34″ West) of Black Island.

(xii) Watercraft are required to proceed at slow speed from April 1 through November 15 and at not more than 25 miles per hour the remainder of the year in all waters of Estero Bay and Big Hickory Bay south of a line that bears 72° from the northernmost point (approximate latitude 26°24′22″ North, approximate longitude 81°52′34″ West) of Black Island, east of the centerline of State Road 865 (but including the waters of the embayment on the eastern side of Black Island and the waters inshore of the mouth of Big Hickory Pass that are west of State Road 865), and north of a line that bears 90° from a point (approximate latitude 26°20′51″ North, approximate longitude 81°50′33″ West) on the eastern shoreline of Little Hickory Island, excluding Spring Creek and the portions of the marked channels otherwise designated under 17.108(c)(13)(xiii) and the portion of Hickory Bay designated in paragraph (c)(13)(xiii) of this section.

(xiii) Watercraft may not exceed 25 miles per hour all year in:

(A) All waters of Big Hickory Bay north of a line that bears 90° from a point (approximate latitude 26°20′51'' North, approximate longitude 81°50′33″ West) on the eastern shoreline of Little Hickory Island, west of a line beginning at a point (approximate latitude 26°20′48″ North, approximate longitude 81°50′24″ West) on the southern shoreline of Big Hickory Bay and bearing 338° to a point (approximate latitude 26°21′39″ North, approximate longitude 81°50′48″ West) on the water in the northwestern end of Big Hickory Bay near the eastern end of Broadway Channel, south of a line beginning at said point on the water in the northwestern end of Big Hickory Bay and bearing 242° to the northernmost point (approximate latitude 26°21′39″ North, approximate longitude 81°50′50″ West) of the unnamed mangrove island south of Broadway Channel, and east of the eastern shoreline of said mangrove island and a line beginning at the southernmost point of said island (approximate latitude 26°21′07″ North, approximate longitude 81°50′58″ West) and bearing 167° to a point on Little Hickory Island (approximate latitude 26°21′03″ North, approximate longitude 81°50′57″ West);

(B) All waters of the main marked North–South channel in northern Estero Bay from Green Channel Marker 37 (approximate latitude 26°26′02 North, approximate longitude 81°54′29″ West) to Green Channel Marker 57 (approximate latitude 26°25′08″ North, approximate longitude 81°53′29″ West);

(C) All waters of the main marked North-South channel in southern Estero Bay south of a line beginning at a point (approximate latitude 26°24′36″ North, approximate longitude 81°52′30″ West) on the southern shoreline of the unnamed mangrove island north of Black Island and bearing 192° to the northernmost point (approximate latitude 26°24′22″ North, approximate longitude 81°52′34″ West) of Black Island, and north and east of Red Channel Marker 62 (approximate latitude 26°21′31″ North, approximate longitude 81°51′20″ West) in Broadway Channel;

(D) All waters within the portion of the marked channel leading to the Gulf

of Mexico through New Pass, west of the North-South channel and east of State Road 865; all waters of the marked channel leading to Mullock Creek north of a line beginning at a point (approximate latitude 26°24′36″ North, approximate longitude 81°52′30″ West) on the eastern shoreline of Coon Key and bearing 106° to a point (approximate latitude 26°24′39″ North, approximate longitude 81°52′34″ West) on the southwestern shoreline of the unnamed mangrove island north of Black Island, and south of Red Channel Marker 18 (approximate latitude 26°27′46″ North, approximate longitude 81°52′00″ West);

(E) All waters of the marked channel leading from the Mullock Creek Channel to the Estero River, west of the mouth of the Estero River. (This designation only applies if a channel is marked in accordance with permits issued by all applicable State and federal authorities. In the absence of a properly permitted channel, this area is as designated under paragraph (c)(13)(xi) of this section);

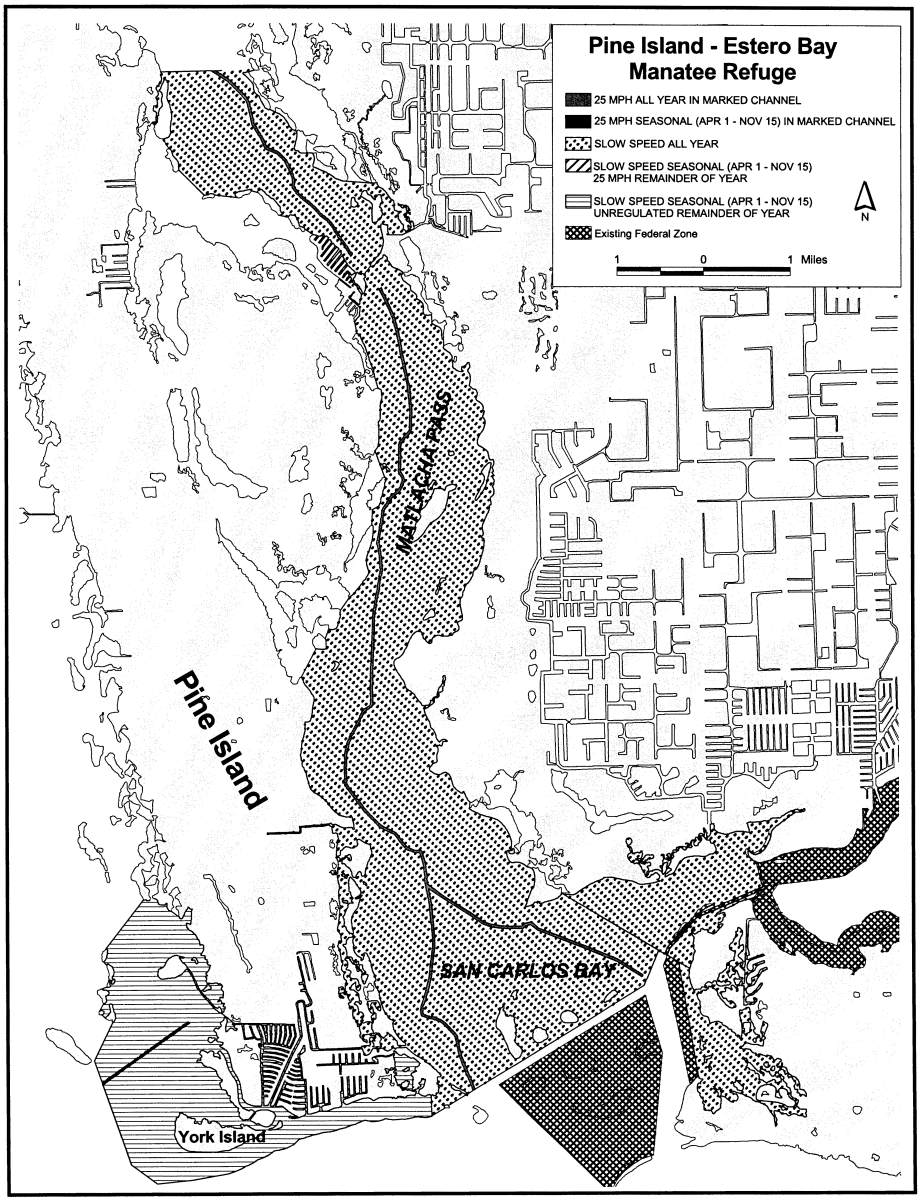
(F) All waters of the marked channel commonly known as Alternate Route Channel, with said channel generally running between Channel Marker 1 (approximate latitude 26°24′29″ North, approximate longitude 81°51′53″ West) and Channel Marker 10 (approximate latitude 26°24′00″ North, approximate longitude 81°51′09″ West);

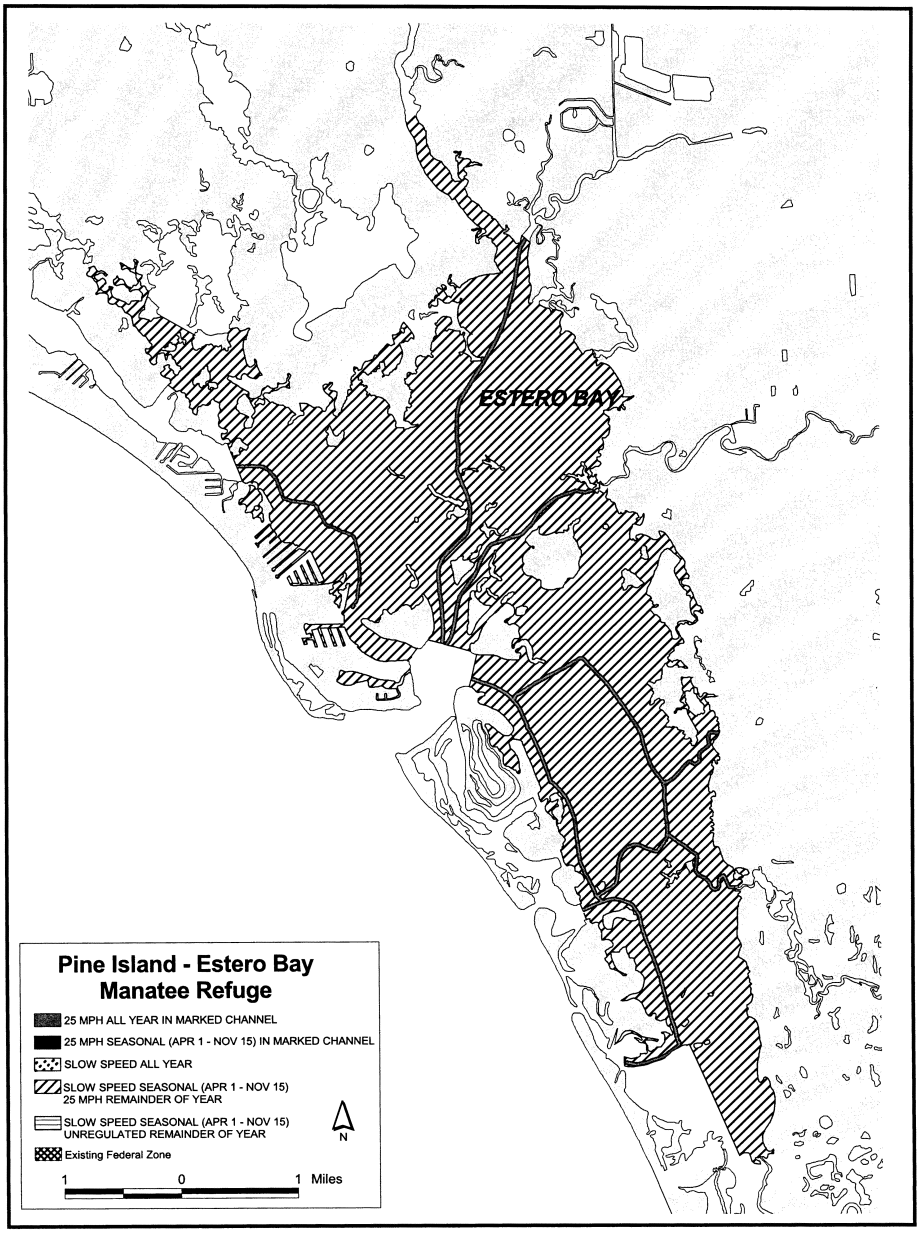
(G) All waters of the marked channel commonly known as Coconut Channel, with said channel generally running between Channel Marker 1 (approximate latitude 26°23′44″ North, approximate longitude 81°50′55″ West) and Channel Marker 23 (approximate latitude 26°24′00″ North, approximate longitude 81°50′30″ West);

(H) All waters of the marked channel commonly known as Southern Passage Channel, with said channel generally running between Channel Marker 1 (approximate latitude 26°22′58″ North, approximate longitude 81°51′57″ West) and Channel Marker 22 (approximate latitude 26°23′27″ North, approximate longitude 81°50′46″ West); and

(I) All waters of the marked channel leading from the Southern Passage Channel to Spring Creek, west of the mouth of Spring Creek.

(xiv) Maps of the Pine Island-Estero Bay Manatee Refuge follow:


Pine Island - Estero Bay
Manatee Refuge
25 MPH ALL YEAR IN MARKED CHANNEL
25 MPH SEASONAL (APR 1 - NOV 15) IN MARKED CHANNEL
SLOW SPEED ALL YEAR
SLOW SPEED SEASONAL (APR 1 - NOV 15)
25 MPH REMAINDER OF YEAR
SLOW SPEED SEASONAL (APR 1 - NOV 15)
UNREGULATED REMAINDER OF YEAR
Existing Federal Zone
1 0 1 Miles
N
MATLACHA PASS
Pine Island
SAN CARLOS BAY
York Island

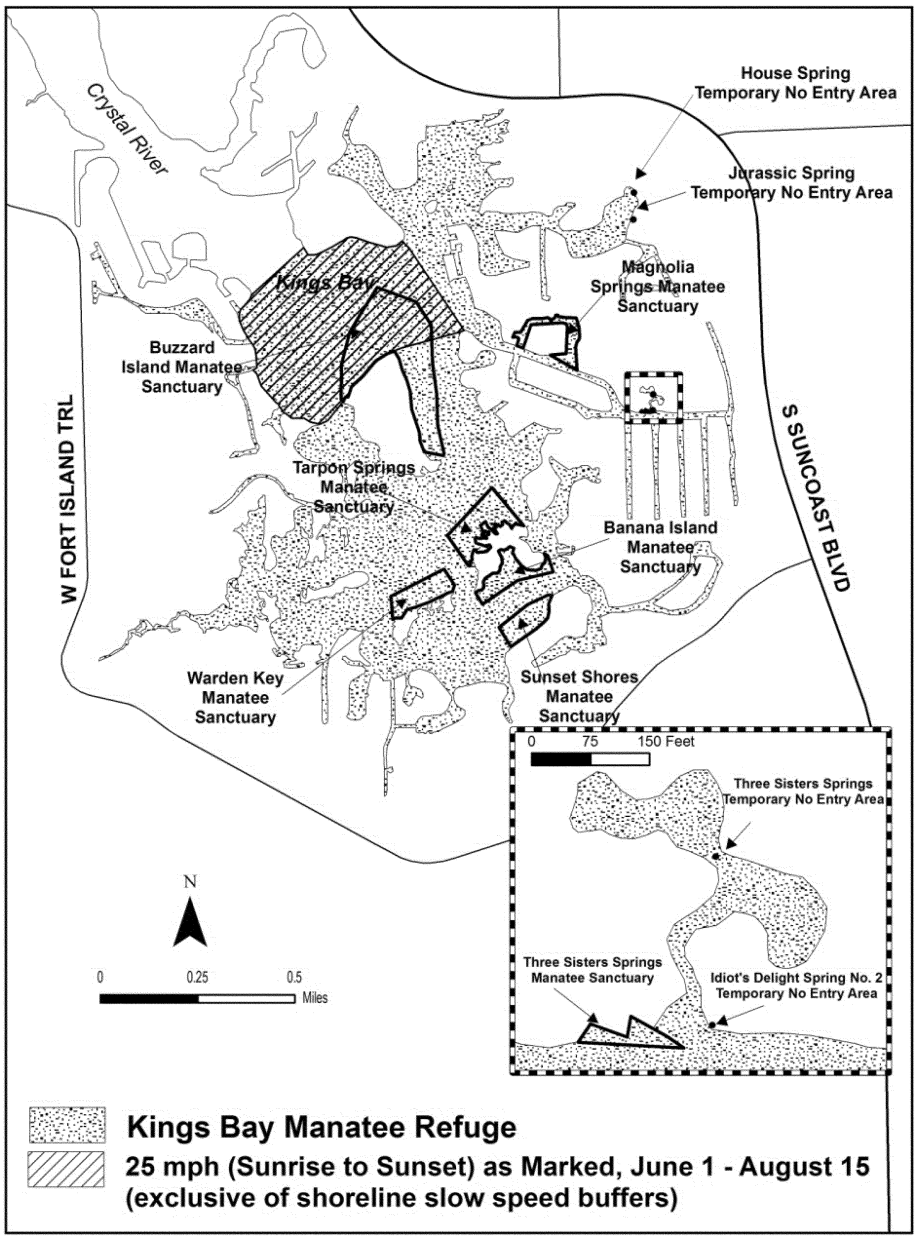


(14) *The Kings Bay Manatee Refuge.* A tract of submerged land that includes all waters of Kings Bay, including all tributaries and adjoining waterbodies, upstream of the confluence of Kings Bay and Crystal River, described by a line that bears North 53°00′00″ East (True) from the northeasternmost point of an island on the southwesterly shore of Crystal River (approximate

latitude 28°53′32″ North, approximate longitude 82°36′23″ West) to the southwesternmost point of a peninsula of Magnolia Shores (approximate latitude 28°53′38″ North, approximate longitude 82°36′16″ West).

(i) *Area covered.* The Kings Bay Manatee Refuge encompasses existing manatee protection areas as described in paragraphs (a)(1) through (a)(7) of this section, and areas outside these sections as depicted on the map in paragraph (c)(14)(ii) of this section.

(ii) *Particular areas.* The following springs fall within the boundaries of the Kings Bay Manatee Refuge. A map showing the entire refuge, including these springs, follows:



(A) *Three Sisters Springs.* A tract of submerged land, lying in Section 28, Township 18 South, Range 17 East, Tallahassee Meridian, Citrus County, Florida, more particularly described as follows: For a point of reference, commence at the northwest corner of said

Section 28 in an east southeast direction to the canal that begins on the west side of Southeast Cutler Spur Boulevard and runs west-northwest to Kings Bay. The spring is north and east of the northern terminus of Southeast Paradise Avenue along the northern shore of said canal. Three Sisters Springs includes three main and numerous smaller spring vents and a spring run that connects the vents to said canal in Crystal River, Citrus County, Florida. This area is not the same as set forth in paragraph (a)(7) of this section. This area is behind the sanctuary (north from the mouth of the channel) as set forth in paragraph (a)(7) of this section.

(*1*) All waterborne activities in this specific area are prohibited from sunset to sunrise from November 15 through March 31 exclusive of the provisions of paragraph (c)(14)(v) of this section.

(*2*) Scuba diving and fishing (including but not limited to fishing by hook and line, by cast net, and by spear) are also prohibited in this specific area from November 15 through March 31 exclusive of the provisions of paragraph (c)(14)(v) of this section.

(*3*) If the provisions of paragraph (c)(14)(vi) of this section are put in effect, all waterborne activities are prohibited in this specific area for the duration established under paragraph (c)(14)(vi) of this section.

(B) *House Spring.* A tract of submerged land, lying in Section 21, Township 18 South, Range 17 East, Tallahassee Meridian, Citrus County, Florida, more particularly described as follows: For a point of reference, commence at the southwest corner of said Section 21 in an east-northeast direction to the northeasternmost corner of Hunter Spring Run. The spring is immediately west of and adjacent to Northeast 2nd Court in Crystal River, Citrus County, Florida.

(C) *Jurassic Spring.* A tract of submerged land, lying in Section 21, Township 18 South, Range 17 East, Tallahassee Meridian, Citrus County, Florida, more particularly described as follows: For a point of reference, commence at the southwest corner of said Section 21 in an east northeast direction to the eastern shore of Hunter Spring Run. The spring is immediately west of the western terminus of Bayshore Drive in Crystal River, Citrus County, Florida.

(D) *Idiot's Delight Number 2 Spring.* A tract of submerged land, lying in Section 28, Township 18 South, Range 17 East, Tallahassee Meridian, Citrus County, Florida, more particularly described as follows: For a point of reference, commence at the northwest corner of said Section 28 in an east southeast direction to the canal that begins on the west side of Southeast Cutler Spur Boulevard and runs west-northwest to Kings Bay. The spring is north and east of the northern terminus of Southeast Paradise Avenue along the northern shore of said canal just east of the southern terminus of the Three Sisters Springs run in Crystal River, Citrus County, Florida.

(iii) *Speed and anchoring restrictions.* (A) Throughout the entire year, watercraft speeds are restricted to slow speed throughout the manatee refuge with the following exceptions:

(*1*) A posted area generally north of Buzzard Island, exclusive of shoreline slow-speed buffer zones, where watercraft may travel at speeds up to 25 miles per hour during daylight hours (sunrise to sunset) from June 1 through August 15;

(*2*) Those areas where access is precluded (manatee sanctuaries, no-entry areas); or

(*3*) Areas where more restrictive speed restrictions are in effect.

(B) From June 1 through August 15, anchorage (other than emergency anchorage) of watercraft is prohibited in the posted high speed (25 miles per hour) area around Buzzard Island referenced in paragraph (c)(14)(iii)(A) of this section.

(iv) *Time and area prohibitions.* When the provisions of paragraphs (c)(14)(v) or (vi) of this section are in effect (November 15 through March 31 and April 1 through November 14, respectively), all waterborne activities, including swimming, diving (including skin and scuba diving), snorkeling, water skiing, surfing, fishing (including with hook and line, by cast net, or spear), and the use of water vehicles (including but not limited to boats powered by engine, wind, or other means; ships powered by engine, wind, or other means; barges,

surfboards, personal watercraft, water skis, and any other devices or mechanisms capable of locomotion on, across, or underneath the surface of the water) are prohibited in areas that are adjacent to and within specified distances from the existing manatee sanctuaries located in Kings Bay (defined in paragraphs (a)(1) through (a)(7) of this section) and the springs defined in paragraph (c)(14)(ii) of this section: Three Sisters Springs, House Spring, Jurassic Spring, and Idiot's Delight Number 2 Spring.

(v) *Expanded temporary no-entry area (November 15 through March 31).* When manatees exceed the capacity of an existing manatee sanctuary or shift usage around an existing manatee sanctuary or shift usage to Three Sisters Springs, House Spring, Jurassic Spring, and Idiot's Delight Number 2 Spring, due to water or weather or other conditions, we will designate ''no-entry'' areas from November 15 through March 31 as appropriate and necessary around any of these sites. The determination to designate and subsequently remove no-entry areas around existing manatee sanctuaries and Three Sisters Springs, House Spring, Jurassic Spring, and Idiot's Delight Number 2 Spring within the Kings Bay Manatee Refuge will be based on aerial survey observations of manatees using the existing sanctuary sites, current weather information, and other sources of credible, relevant information. We will designate no-entry areas within Kings Bay Manatee Refuge and outside of existing sanctuaries as follows:

(A) For the sanctuaries set forth in paragraphs (a)(1) through (a)(6) of this section, to a distance not to exceed 100 feet from the existing sanctuary boundary.

(B) For the Three Sisters Springs Sanctuary, to a distance not to exceed 400 feet from the existing boundary. We do not intend to completely mark off the manmade channel. Expansions could occur directly around the existing sanctuary and north into the area locally known as Three Sisters Springs.

(C) For House Spring and Jurassic Spring, an area that does not exceed 100 feet from the associated spring vents.

(D) For Idiot's Delight Number 2 Spring, an area that does not exceed 25 feet from the associated spring vent. Any temporary designation will be configured to avoid the manmade channel in the canal and will not block access into Three Sisters Springs.

(vi) *Temporary no-entry areas (April 1 through November 14).* Temporary no-entry area designations may be made in the existing manatee sanctuaries located in Kings Bay defined in paragraphs (a)(1) through (a)(7) and paragraphs (c)(14)(v)(A) through (D) of this section prior to November 15 and after March 31 during cold fronts when manatees are present. Designations will remain in effect for the duration of a cold front and only when there is regular manatee use; temporary no-entry area designations will remain in effect for no longer than 14 consecutive days.

(vii) *Posting of temporary no-entry areas designated in accordance with paragraph (c)(14)(v) or (vi) of this section.* Additional temporary protection areas will be posted to distances as described in paragraph (c)(14)(v) of this section and identified by the following devices: buoys, float lines, signs, advisories from onsite Service employees and their designees, or other methods.

(viii) *Notifications of temporary no-entry areas designated in accordance with paragraph (c)(14)(v) or (vi) of this section.* When we determine that the provisions of paragraph (c)(14)(v) or (vi) of this section are appropriate, the temporary protection areas will be designated and posted to distances as described in paragraph (c)(14)(v) of this section. No-entry area designations will occur immediately. We will advise the public of designations through public notice(s) announcing and describing the measures in a local newspaper and other media, including but not limited to, local television and radio broadcasts, Web sites and other news outlets, as soon as time permits. Onsite Service employees and their designees, when present, may also inform waterway users of designations.

(ix) *Prohibited activities (year-round).* We specifically identify and prohibit the activities set forth in this paragraph to prevent the take of one or

more manatees by individuals engaged in waterborne activities while in the water, in boats, or on-shore within the Kings Bay Manatee Refuge. In regard to these prohibited activities, we consider a resting manatee to be a mostly motionless manatee that rises to breathe from the water bottom, in the water column, or on the water's surface. While resting, a manatee may make minor changes in its posture and may slightly shift its position. Minor changes in posture occur when resting manatees breathe or roll. Resting manatees may also make slight movements with their flippers or tail to compensate for drift, etc. Prohibited activities include:

(A) Chasing or pursuing manatee(s).

(B) Disturbing or touching a resting or feeding manatee(s).

(C) Diving from the surface on to a resting or feeding manatee(s).

(D) Cornering or surrounding or attempting to corner or surround a manatee(s).

(E) Riding, holding, grabbing, or pinching or attempting to ride, hold, grab, or pinch a manatee(s).

(F) Poking, prodding, or stabbing or attempting to poke, prod, or stab a manatee(s) with anything, including your hands and feet.

(G) Standing on or attempting to stand on manatee(s).

(H) Separating a mother and calf or attempting to separate a mother and calf.

(I) Separating manatee(s) from a group or attempting to separate manatee(s) from a group.

(J) Giving manatee(s) anything to eat or drink or attempting to give manatee(s) anything to eat or drink.

(K) Actively initiating contact with belted or tagged manatee(s) and associated gear, including any belts, harnesses, tracking devices, or antennae.

(L) Interfering with rescue and research activities.

[45 FR 74881, Nov. 12, 1980, as amended at 57 FR 5990, Feb. 19, 1992; 59 FR 24658, May 12, 1994; 63 FR 55556, Oct. 16, 1998; 67 FR 693, Jan. 7, 2002; 67 FR 66473, Nov. 8, 2002; 68 FR 46898, Aug. 6, 2003; 69 FR 40805, July 7, 2004; 70 FR 17874, Apr. 7, 2005; 70 FR 21969, Apr. 28, 2005; 70 FR 29458, May 23, 2005; 77 FR 15631, Mar. 16, 2012]

FINDING AIDS

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17 Comment period extended 66344
17.102 Amended 693
17.108 (b) note removed; (c) added 693
(a) introductory text and (b) revised; (a)(7) amended; (a)(8) through (11) and (c)(3), (4) and (5) added; eff. 9–20–02 through 1–20–03 59417
(a) introductory text, (8) through (11), (b) and (c)(1) through (5) revised; (c)(6) through (11) added; (a)(7) illustration amended 68473

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17 Comment period reopened 12611
17.99 Heading revised; (i) and (j) added 36080
Heading revised; (k) and (l) added 39704
17.108 (c)(12), (13) and (14) added 46898

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17.108 (c)(15) added; eff. 4–7–04 to 8–5–04 18285
(c)(5) and (11) removed; (c)(6) through (10) and (12) through (15) redesignated as (c)(5) through (13); new (c)(10)(i) through (ix), (11)(i) through (iv) and (12)(i) through (xi) amended 40805
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17.108 (c)(13) added 17874
(c)(11)(i) through (iv) revised; (c)(11)(v) redesignated as (c)(11)(vi) and amended; new (c)(11)(v) added 21969
(c)(13)(i)(B) amended 29458

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(Regulations published from January 1, 2012, through October 1, 2012)

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