

Kauai, critical habitat was not designated for *A. mutica* on that island. Ten critical habitat units for this species are designated on the island of Hawaii, providing habitat for a total of 10 populations.

Hawaii 9—*Achyranthes mutica*—a: This unit contains a portion of Waipahoehoe Gulch in the Kawaihae watershed.

Hawaii 9—*Achyranthes mutica*—b: This unit contains a portion of Keauewai Stream and Kilohana Gulch in the Kawaihae watershed, and is currently occupied by 25 to 50 individuals.

Hawaii 9—*Achyranthes mutica*—c: This unit contains a portion of an unnamed gulch adjacent to Puu Loa in the Kawaihae watershed.

Hawaii 9—*Achyranthes mutica*—d: This unit contains a portion of an unnamed gulch between Hawaii 9—*Achyranthes mutica*—c and Lauhine Gulch in the Kawaihae watershed.

Hawaii 9—*Achyranthes mutica*—e: This unit contains a portion of Lauhine Gulch and a gulch just east of Lauhine Gulch and west of Puu Kawaiwai in the Kawaihae watershed.

Hawaii 9—*Achyranthes mutica*—f: This unit contains a portion of Umipoho Gulch in the Kawaihae watershed.

Hawaii 9—*Achyranthes mutica*—g: This unit contains a portion of Pauahi Gulch, straddling the Kawaihae and the Waikoloa/Waiulaula watersheds.

Hawaii 9—*Achyranthes mutica*—h: This unit contains a portion of Momoualua Gulch in the Waikoloa/Waiulaula watershed.

Hawaii 9—*Achyranthes mutica*—i: This unit contains a portion of an unnamed gulch between Puu Kamoa and Puu Lanikepu in the Waikoloa/Waiulaula watershed.

Hawaii 9—*Achyranthes mutica*—j: This unit contains a portion of Waiaka Gulch in the Waikoloa/Waiulaula watershed. This unit provides the easternmost critical habitat within the species' historical range.

Hawaii 28—*Adenophorus periens*—a

We are designating one critical habitat unit for *Adenophorus periens*, short-lived perennial. This unit straddles the Kaahakini and Kilauea watersheds, and lies completely within the Kahaulea NAR. The unit provides habitat for 1 population of 300 mature, reproducing individuals of *A. periens*, and is currently occupied by an unknown number of individuals. It contains habitat features essential for the conservation of the species including, but not limited to, *Metrosideros polymorpha* or *Ilex anomala*, or possibly other native trees large enough

to support epiphytic growth of this species, in *Metrosideros polymorpha-Cibotium glaucum* lowland wet forest. This unit is essential to the conservation of *A. periens* because it supports an extant colony of this species and includes habitat that is important for the expansion of the present population. This unit is geographically separated from other critical habitat for this multi-island species in order to reduce the likelihood of all recovery populations being destroyed by one naturally occurring catastrophic event. In addition to this unit, critical habitat was designated for four populations *A. periens* within its historical range on Kauai (68 FR 9116, February 27, 2003), for one population on Oahu (68 FR 35949, June 17, 2003), and four populations on Molokai (68 FR 12982, March 19, 2003).

Hawaii 10—*Argyroxiphium kauense*—a through Hawaii 30—*Argyroxiphium kauense*—d

We are designating four critical habitat units for *Argyroxiphium kauense*, a long-lived perennial. Of the four units, only "Hawaii 10—*Argyroxiphium kauense*—a" is currently unoccupied by the species. The habitat features contained in these four units that are essential for this species include, but are not limited to, subalpine forests, bogs, and mountain parkland. The three occupied units contain the habitat features essential to the conservation of *A. kauense* and each supports at least one extant colony of the species and includes habitat that is important for the expansion of present populations, which are currently considered nonviable. The unoccupied unit is essential to the conservation of the species because it supports habitat that is necessary for the establishment of additional populations in order to reach recovery goals. Each unit is geographically separated from other critical habitat for this island-endemic species in order to reduce the likelihood of all recovery populations on the island being destroyed by one naturally occurring catastrophic event. The four units being designated in this rule for *A. kauense* provide habitat to support a total of eight populations.

Hawaii 10—*Argyroxiphium kauense*—a: This unit, which contains no named natural features, lies in the Kiholo watershed and is completely within the Puuwaawaa Wildlife Sanctuary. This unoccupied unit, in combination with adjacent Kamehameha Schools land, provides habitat for one population of 2,000 individuals. This unit provides the

northwesternmost critical habitat within the species' historical range.

Hawaii 24—*Argyroxiphium kauense*—b: This unit contains the upper portions of Hionamoa, Kauhuula, Moaula, Pikea, and Waihaka gulches, Makaka Ravine, Puu Kinikini summit, and Maunaanu Waterhole. The southern portion lies in the Hilea watershed, the northern portion in Kapapala watershed, and the central portion in the Pahala watershed. The northeast portion is in the Kapapala Forest Reserve. This unit provides habitat for four populations of 2,000 individuals and is currently occupied by about 1,130 individuals of *A. kauense* in three locations. This unit provides the southernmost critical habitat within the species' historical range.

Hawaii 25—*Argyroxiphium kauense*—c: This unit contains a portion of Kipuka Kulalio and Kipuka Maunaiu in the Kapapala watershed. This unit provides habitat for one population of 2,000 individuals and currently is occupied by about 1,000 outplanted individuals of *A. kauense*.

Hawaii 30—*Argyroxiphium kauense*—d: This unit contains portions of the lava flows of 1852 and 1942 and lies mostly in the Wailoa watershed, with the southern tip in the Kaahakini watershed. The upper area of the unit lies in portions of Upper Waiakea Forest Reserve and Mauna Loa Forest Reserve. The southern portion is part of the Olaa-Kilauea Partnership. This unit provides habitat for two populations of 2,000 individuals of *A. kauense* and is currently occupied by fewer than 500 individuals. This unit provides the easternmost critical habitat within the species' historical range.

Hawaii 24—*Asplenium fragile* var. *insulare*—a

We are designating one critical habitat unit for *Asplenium fragile* var. *insulare*, a short-lived perennial. The unit contains no named natural features and lies in the Pahala watershed, mostly in Kapapala Forest Reserve, with the southern point in Kau Forest Reserve. This unit provides habitat for 1 population of 300 mature, reproducing individuals of *A. fragile* var. *insulare* and is currently occupied by 11 individuals. It contains habitat features essential for this species including, but not limited to, *Metrosideros polymorpha* dry montane forest, *Dodonaea viscosa* dry montane shrubland, *Myoporum sandwicense-Sophora chrysophylla* dry montane forest, and *Metrosideros polymorpha-Acacia koa* forest, as well as subalpine dry forest and shrubland. This species grows almost exclusively in large, moist lava tubes (from 3 to 4.5