

This unit is essential to the conservation of the taxon because it supports habitat that is important to the establishment of additional populations on Kauai in order to reach recovery goals. It provides habitat for the easternmost range of the species. The habitat features contained in this unit that are essential for this species include, but are not limited to, sand dunes in coastal shrubland. This unit is geographically separated from the other three units designated as critical habitat for this island-endemic species, in order to avoid all recovery populations from being destroyed by one naturally occurring catastrophe. Although we do not feel that there is enough habitat that currently exists to reach the recovery goal of 8 to 10 populations for this species, this unit is at an appropriate distance from the other unit to avoid their destruction by one naturally occurring catastrophic event.

**Kauai 17—*Panicum niihauense*—d**

This unit is critical habitat for *Panicum niihauense* and is 27 ha (67 ac) on Federal and State land. This unit contains Kokole Point. This unit provides habitat for one population of 300 mature, reproducing individuals of the short-lived perennial *Panicum niihauense* and is currently unoccupied. This unit is essential to the conservation of the taxon because it supports habitat that is important to the establishment of additional populations on Kauai in order to reach recovery goals. It provides habitat for the easternmost range of the species. The habitat features contained in this unit that are essential for this species include, but are not limited to, sand dunes in coastal shrubland. This unit is geographically separated from the other three units designated as critical habitat for this species, in order to avoid all recovery populations from being destroyed by one naturally occurring catastrophe. Although we do not feel that there is enough habitat that currently exists to reach the recovery goal of 8 to 10 populations for this species, this unit is at an appropriate distance from the other unit to avoid their destruction by one naturally occurring catastrophic event.

**Kauai 7—*Peucedanum sandwicense*—a**

This unit is critical habitat for *Peucedanum sandwicense* and is 21 ha (53 ac) on private land. This unit contains Haupū Summit and Queen Victoria's Profile. This unit provides habitat for one population of 300 mature, reproducing individuals of the short-lived perennial *Peucedanum sandwicense* and is currently occupied

with one plant. This unit is essential to the conservation of the taxon because it supports an extant colony of this species and includes habitat that is important for the expansion of the present population, which is currently considered non-viable. It provides habitat for the westernmost range of the species. The habitat features contained in this unit that are essential for this species include, but are not limited to, cliff habitats in mixed shrub coastal dry cliff communities or diverse mesic forest. This unit provides for one population within this multi-island species' historical range on Kauai that is some distance away from the other critical habitat for this species, in order to avoid all recovery populations from being destroyed by one naturally occurring catastrophic event.

**Kauai 11—*Peucedanum sandwicense*—b**

This unit is critical habitat for *Peucedanum sandwicense* and is 579 ha (1,431 ac) on State land (Kuia NAR and Na Pali Coast State Park). This unit contains portions of Kuia and Mahanaloa Valleys, and Milolii Ridge. This unit provides habitat for two populations of 300 mature, reproducing individuals of the short-lived perennial *Peucedanum sandwicense* and is currently occupied with 55 plants. This unit is essential to the conservation of the taxon because it supports an extant colony of this species and includes habitat that is important for the expansion of the present population, which is currently considered non-viable. It provides habitat for the westernmost range of the species. The habitat features contained in this unit that are essential for this species include, but are not limited to, cliff habitats in mixed shrub coastal dry cliff communities or diverse mesic forest. This unit provides for two populations within this multi-island species' historical range on Kauai that are some distance away from the other critical habitat for this species, in order to avoid all recovery populations from being destroyed by one naturally occurring catastrophic event.

**Kauai 11—*Peucedanum sandwicense*—c**

This unit is critical habitat for *Peucedanum sandwicense* and is 181 ha (447 ac) on State land (Hono o Na Pali NAR and Na Pali Coast State Park). This unit contains portions of Kaaalahina Ridge, and Alealau, Kanakou, Keanapuka, and Puu Ki Summits. This unit provides habitat for one population of 300 mature, reproducing individuals of the short-lived perennial

*Peucedanum sandwicense* and is currently occupied with 100 to 200 plants. This unit is essential to the conservation of the taxon because it supports an extant colony of this species and includes habitat that is important for the expansion of the present population, which is currently considered non-viable. It provides habitat for the westernmost range of the species. The habitat features contained in this unit that are essential for this species include, but are not limited to, cliff habitats in mixed shrub coastal dry cliff communities or diverse mesic forest. This unit provides for one population within this multi-island species' historical range on Kauai that is some distance away from the other critical habitat for this species, in order to avoid all recovery populations from being destroyed by one naturally occurring catastrophic event.

**Kauai 10—*Phlegmariurus nutans*—a**

This unit is critical habitat for *Phlegmariurus nutans* and is 621 ha (1,532 ac) on State (Lihue-Koloa Forest Reserve) and private land. This unit contains Kahili, Kalalea, Kamanu, Kapalaoa, and Kawaikini Summits. This unit provides habitat for three populations of 300 mature, reproducing individuals of the short-lived perennial *Phlegmariurus nutans* and is currently unoccupied. This unit is essential to the conservation of the taxon because it supports habitat that is important to the establishment of additional populations on Kauai in order to reach recovery goals. It provides habitat for the westernmost range of the species. The habitat features contained in this unit that are essential for this species include, but are not limited to, tree trunks on open ridges and slopes in *Metrosideros polymorpha-Dicranopteris linearis* wet forest. This unit provides for three populations within this multi-island species' historical range on Kauai that are some distance away from the other critical habitat for this species, in order to avoid all recovery populations from being destroyed by one naturally occurring catastrophic event. This species has wind-blown spores with limited opportunity for germination and growth. Therefore, this species requires large intact areas of land to support a viable population.

**Kauai 11—*Phyllostegia knudsenii*—a**

This unit is critical habitat for *Phyllostegia knudsenii* and is 297 ha (735 ac) on State land (Alakai Wilderness Preserve). This unit contains portions of Kawaiiki and Kipalau Valleys. This unit provides habitat for three populations of 300 mature,