

princeps—b, 17—*Platanthera holochila*—b, 17—*Pteris lidgatei*—b, 17—*Remya mauiensis*—a, 17—*Remya mauiensis*—b, 17—*Sanicula purpurea*—b, 17—*Spermolepis hawaiiensis*—b, and 16—*Hibiscus brackenridgei*—a.

Maui E

This unit was proposed as critical habitat for two multi-island species, *Bonamia menziesii* and *Hibiscus brackenridgei*. The entire unit is eliminated from the final rule. There is a lower likelihood that the biological features essential to these species will persist there because the area has a low likelihood of being managed for conservation and there are 10 other locations that have been designated or proposed to meet the recovery goal of 8 to 10 populations throughout their historical ranges on this and other islands. There is also habitat designated elsewhere on Maui for *Bonamia menziesii* and *Hibiscus brackenridgei*. Exclusion of this unit from critical habitat for *Bonamia menziesii* and *Hibiscus brackenridgei* resulted in the overall reduction of 14,101 ha (34,843 ac) of critical habitat on Maui.

Maui F

No changes were made to Maui F. The area designated as critical habitat for the multi-island species *Vigna o-wahuensis* provides habitat within its historical range for one population. This unit remains 144 ha (357 ac) but was renamed 12—*Vigna o-wahuensis*—a.

Maui G

This unit was proposed as critical habitat for four species: *Brighamia rockii*; *Ischaemum byrone*; *Mariscus pennatiformis*; and *Peucedanum sandwicense*. Modifications were made to this unit to exclude areas that do not contain the primary constituent elements for these species. The portion excluded was not essential to the conservation of these four species because it has a lower proportion of associated native species than other areas we consider to be essential to the conservation of these four species, it has a low likelihood of being managed for conservation (Buck, *in litt.* 2002), and there are at least eight other locations that have been designated or proposed to meet the recovery goal of 8 to 10 populations throughout their historical ranges on this and other islands.

The area designated as critical habitat for these multi-island species provides habitat for one population of *Brighamia rockii*, two populations each of *Ischaemum byrone* and *Mariscus pennatiformis*, and one population of

Peucedanum sandwicense within their historical ranges.

These modifications resulted in the reduction from 83 ha (185 ac) to 52 ha (128 ac). This unit was renamed 3—*Brighamia rockii*—c, 4—*Brighamia rockii*—d, 5—*Brighamia rockii*—e, 5—*Ischaemum byrone*—a, 7—*Ischaemum byrone*—b, 5—*Mariscus pennatiformis*—a, and 4—*Peucedanum sandwicense*—a.

Maui H

This unit was proposed as critical habitat for 25 species: *Alectryon macrococcus*; *Argyroxiphium sandwicense* ssp. *macrocephalum*; *Bidens micrantha* ssp. *kalealaha*; *Bonamia menziesii*; *Cenchrus agrimonoides*; *Clermontia lindseyana*; *Colubrina oppositifolia*; *Diellia erecta*; *Diplazium molokaiense*; *Flueggea neowawraea*; *Geranium arboreum*; *Geranium multiflorum*; *Lipochaeta kamolensis*; *Melicope adscendens*; *Melicope knudsenii*; *Melicope mucronulata*; *Neraudia sericea*; *Nototrichium humile*; *Phlegmariurus mannii*; *Phyllostegia mollis*; *Plantago princeps*; *Sesbania tomentosa*; *Schiedea haleakalensis*; *Spermolepis hawaiiensis*; and *Zanthoxylum hawaiiense*. We excluded the proposed critical habitat on Ulupalakua and Haleakala Ranch lands because the benefits of excluding these lands outweighed the benefits of including them in critical habitat (see “Analysis of Impacts Under Section 4(b)(2)”). We excluded the proposed critical habitat for the Maui endemics *Geranium arboreum* and *Schiedea haleakalensis*, and the multi-island species *Zanthoxylum hawaiiense*. Areas proposed for these three species were excluded because we have proposed adequate and more appropriate habitat elsewhere on Maui and, for *Z. hawaiiense*, on other islands within its historical ranges. The portion excluded was not essential to the conservation of these three species because it has a lower proportion of associated native species than other areas we consider to be essential to the conservation of these three species, it has a low likelihood of being managed for conservation (Urdman *in litt.*, 2002; Silva *in litt.*, 2002), and there are at least eight other locations that have been designated or proposed to meet the recovery goal of 8 to 10 populations throughout their historical ranges on this and other islands. There is habitat designated elsewhere on Maui for *Geranium arboreum*, *Schiedea haleakalensis*, and *Zanthoxylum hawaiiense*.

The area designated as critical habitat for the Maui endemic species provides habitat for one population each of

Argyroxiphium sandwicense ssp. *macrocephalum* and *Geranium multiflorum*, four populations of *Lipochaeta kamolensis*, and one population of *Melicope adscendens* within their historical ranges. The area designated as critical habitat for the multi-island species provides habitat for two populations of *Alectryon macrococcus*; four populations of *Bidens micrantha* ssp. *kalealaha*; one population each of *Bonamia menziesii* and *Cenchrus agrimonoides*; two populations of *Clermontia lindseyana*; one population each of *Colubrina oppositifolia*, *Diellia erecta*, *Diplazium molokaiense*, and *Flueggea neowawraea*; two populations each of *Melicope knudsenii* and *Melicope mucronulata*; three populations of *Neraudia sericea*; two populations of *Nototrichium humile*; one population of *Phlegmariurus mannii*; two populations of *Phyllostegia mollis*; and one population each of *Plantago princeps*, *Sesbania tomentosa*, and *Spermolepis hawaiiensis* within their historical ranges.

These modifications resulted in the reduction from 14,101 ha (34,843 ac) to 9,823 ha (24,270 ac). This unit was renamed 9—*Argyroxiphium sandwicense* ssp. *macrocephalum*—a, 9—*Bidens micrantha* ssp. *kalealaha*—b, 9—*Clermontia lindseyana*—a, 9—*Clermontia lindseyana*—b, 9—*Diellia erecta*—b, 9—*Diplazium molokaiense*—b, 9—*Flueggea neowawraea*—a, 9—*Geranium multiflorum*—c, 9—*Lipochaeta kamolensis*—a, 9—*Melicope knudsenii*—a, 9—*Melicope mucronulata*—a, 9—*Neraudia sericea*—a, 9—*Nototrichium humile*—a, 9—*Phlegmariurus mannii*—b, 9—*Phyllostegia mollis*—b, 9—*Plantago princeps*—a, 10—*Alectryon macrococcus*—b, 11—*Lipochaeta kamolensis*—b, 13—*Alectryon macrococcus*—c, 13—*Bonamia menziesii*—a, 13—*Cenchrus agrimonoides*—a, 13—*Colubrina oppositifolia*—a, 13—*Flueggea neowawraea*—b, 13—*Melicope adscendens*—a, 13—*Melicope knudsenii*—b, 13—*Melicope mucronulata*—b, 13—*Sesbania tomentosa*—b, and 13—*Spermolepis hawaiiensis*—a.

Maui I

This unit was proposed as critical habitat for 11 species: *Argyroxiphium sandwicense* ssp. *macrocephalum*; *Asplenium fragile* var. *insulare*; *Bidens micrantha* ssp. *kalealaha*; *Clermontia lindseyana*; *Diellia erecta*; *Diplazium molokaiense*; *Geranium arboreum*; *Geranium multiflorum*; *Phlegmariurus mannii*; *Phyllostegia mollis*; and