

Appendix Table Guide—Modeled Historic Range Maps for Hawaiian Vascular Plant Species

This appendix contains maps that show the modeled ranges of 1,158 Hawaiian plant species, including all native Hawaiian vascular plant species that have enough data for modeling their range. For this initial mapping effort, the plants were only mapped at the species level. Species taxonomy follows Wagner and others (1990).

Accompanying the maps is a table entitled “of2012-1192_appendix-table.pdf.” Each species contains an entry that includes information on its family name, common name, conservation status, and native status, according to the Smithsonian National Museum of Natural History’s Flora of the Hawaiian Islands database (Wagner and others, 2005). In addition, the table lists the type of range map modeled in this study and also includes links to the range maps, which can be downloaded either in JPG format or as GIS shapefiles.

The following is a excerpt from the table, in addition to a list of the table’s fields and an explanation of their content.

Name	Family	Common Name	Conservation Status	Native Status	Map Type	DOWNLOAD JPG FILES	DOWNLOAD GIS FILES (shapefiles, in zip format)
<i>Abutilon eremitopetalum</i>	Malvaceae	n/a	Endangered	Endemic	Model	http://pubs.usgs.gov/of/2012/1192/jpgs/Abutilon_eremitopetalum.jpg	http://pubs.usgs.gov/of/2012/1192/shapefiles/abuierem.zip
<i>Abutilon incanum</i>	Malvaceae	Ma`o	Apparently Secure	Indigenous	Model	http://pubs.usgs.gov/of/2012/1192/jpgs/Abutilon_incanum.jpg	http://pubs.usgs.gov/of/2012/1192/shapefiles/abuincia.zip
<i>Abutilon menziesii</i>	Malvaceae	Ko`oloa`ula	Endangered	Endemic	Model	http://pubs.usgs.gov/of/2012/1192/jpgs/Abutilon_menziesii.jpg	http://pubs.usgs.gov/of/2012/1192/shapefiles/abumenz.zip
<i>Etc. ... [total of 1,230 table entries for 1,158 species and maps]</i>							

- **Name**—Lists the genus and species name of each taxon. In some cases where the species names have recently been revised, both a synonym and a table entry to the most recently used scientific name for that taxon are provided to facilitate locating the maps.
- **Family**—Lists the family name of each taxon.
- **Common Name**—Lists the common name of each taxon, if available (n/a, not available).
- **Conservation Status**—Contains the listing status for each species, according to the Smithsonian National Museum of Natural History’s Flora of the Hawaiian Islands database (Wagner and others, 2005) and the U.S. Fish and Wildlife Service (2012). Categories include “Extinct,” “Endangered,” “Vulnerable,” “Rare,” and “Apparently Secure” (see <http://botany.si.edu/pacificislandbiodiversity/hawaiianflora/1999Assessment.html> for discussion of conservation status categories; see also, Wagner and others, 1999).
- **Native Status**—Lists the natural distribution of the species. Categories include “Endemic” to the Hawaiian Islands and “Indigenous” to the Hawaiian Islands but also found naturally elsewhere.
- **Map Type**—Lists the type of range map that has been generated by this study. Categories include “Model,” which means that the range map shows the potential range of a species (either estimated, possible, or both) modeled by this study; “Point,” which means that the approximate location of the only known locality of a species is shown on the range map as a point locality; and “Descriptive,” which means that the “potential area of historic collections” of an extinct species has been shown on the range map.
- **DOWNLOAD JPG FILES**—Contains a link to download the JPG file of the range map for each species.
- **DOWNLOAD GIS FILES (shapefiles, in zip format)**—Contains a link to download the shapefile for the range map of each mappable species. The shapefiles are projected in UTM Zone 4N coordinates using NAD83 datum.