MAPS:
MOLOKAI ROAD SURVEY AND EXPERT INTERVIEWS

2005

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The following document includes maps of species found on Molokai during roadside surveys and expert interviews. To create island wide distribution maps for each target, we drove all the publicly accessible paved roads of Molokai at about 5-10 mph. When we came across one of our 126 target species, we recorded the location, naturalized status, and notes. We used a Garmin eTrex global positioning systems (GPS) unit to record locations. Maps were created using ArcView software. We further refined the maps by interviewing expert field botanists on Molokai, and adding any other location information we could find in the literature.

During this survey, we drove 142 miles of roads and found 986 locations for 41 species. Expert interviews, existing gps data, and literature searches added 291 locations for 10 species, of which 4 were not observed at all during road surveys. Some target species were found in limited distribution, while others were widespread. There were 85 target species which were not observed during our roadside survey. This document and more maps of these species can be found at www.hear.org/starr.
Known distribution on Molokai of

Archontophoenix spp.

USGS-BRD-PIERC Haleakala Field Station (2005)
Known distribution on Molokai of

*Arundo donax*
Known distribution on Molokai of

*Bassia hyssopifolia*

![Map of Molokai showing distribution of *Bassia hyssopifolia*]

- ▲️ Red ▲️: Naturalized plants
- ▲️ Green ▲️: Cultivated plants
- ▲️ Yellow ▲️: Status unknown plants
- Area surveyed
- 1000 foot contours

USGS-BRD-PIERC Haleakala Field Station (2005)
Known distribution on Molokai of

*Caesalpinia decapetala*
Known distribution on Molokai of

*Carmona retusa*
Known distribution on Molokai of
*Cestrum nocturnum*

![Map showing known distribution of Cestrum nocturnum on Molokai](image)

Legend:
- ▲ Red triangle: Naturalized plants
- ▲ Green triangle: Cultivated plants
- ▲ Yellow triangle: Status unknown plants

Area surveyed:
- 1000 foot contours

Scale:
- 4 miles

USGS-BRD-PIERC Haleakala Field Station (2005)
Known distribution on Molokai of
*Citharexylum spinosum*

USGS-BRD-PIERC Haleakula Field Station (2005)
Known distribution on Molokai of

*Clusia rosea*

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**Legend:**
- ▲ Naturalized plants
- • Cultivated plants
- △ Status unknown plants

**Survey Lines:**
- ▲ Area surveyed
- \_/ 1000 foot contours

**Scale:**

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4  0  4  8 Miles
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*USGS-BRD-PIERC Haleakala Field Station (2005)*
Known distribution on Molokai of *Cortaderiaspp.*
Known distribution on Molokai of

*Cryptostegia* spp.
Known distribution on Molokai of

*Ficus benjamina*
Known distribution on Molokai of
Ficus carica

- Naturalized plants
- Cultivated plants
- Status unknown plants

Area surveyed
1000 foot contours

USGS-BRD-PIERC Haleakala Field Station (2005)
Known distribution on Molokai of

*Ficus elastica*
Known distribution on Molokai of

*Ficus lyrata*
Known distribution on Molokai of

*Ficus macrophylla*

Legend:
- Red triangle: Naturalized plants
- Green circle: Cultivated plants
- Yellow triangle: Status unknown plants
- Area surveyed
- 1000 foot contours

USGS-BRD-PIERC Haleakala Field Station (2005)
Known distribution on Molokai of
Ficus microcarpa
Known distribution on Molokai of

*Ficus pumila*

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Legend:
- △: Naturalized plants
- ●: Cultivated plants
- ▲: Status unknown plants

Area surveyed
- 1000 foot contours

Scale:
- 4 0 4 8 Miles

USGS-BRD-PIERC Haleakalā Field Station (2005)
Known distribution on Molokai of

*Ficus religiosa*

USGS-BRD-PIERC Haleakala Field Station (2005)
Known distribution on Molokai of

_Hedychium gardnerianum_

USGS-BRD-PIERC Haleakala Field Station (2005)
Known distribution on Molokai of 
Hyparrhenia spp.
Known distribution on Molokai of

*Leptospermum scoparium*
Known distribution on Molokai of
*Ligustrum lucidum*

USGS-BRD-PIERC Haleakala Field Station (2005)
Known distribution on Molokai of

*Livistona chinensis*

Legend:
- ▲  Red triangle: Naturalized plants
- ▲  Green triangle: Cultivated plants
- ▲  Yellow triangle: Status unknown plants

Survey:
- Area surveyed
- 1000 foot contours

Scale:
4 0 4 8 Miles

USGS-BRD-PIERC Haleakala Field Station (2005)
Known distribution on Molokai of
*Lonicera japonica*

Legend:
- Red triangle: Naturalized plants
- Green triangle: Cultivated plants
- Yellow triangle: Status unknown plants

Survey:
- Area surveyed
- 1000 foot contours

Scale:
- 0 to 8 miles

Source:
USGS-BRD-PIERC Haleakala Field Station (2005)
Known distribution on Molokai of *Merremia tuberosa*

- **Legend:**
  - △: Naturalized plants
  - ○: Cultivated plants
  - ▲: Status unknown plants
  - Area surveyed
  - 1,000 foot contours

- **Scale:**
  - 4 miles

- **Source:**
  - USGS-BRD-PIERC Haleakala Field Station (2005)
Known distribution on Molokai of *Ochna* spp.
Known distribution on Molokai of
*Olea europaea subsp. cuspidata*
Known distribution on Molokai of

*Olea europaea* subsp. *europaea*
Known distribution on Molokai of
Passiflora laurifolia

USGS-BRD-PIERC Haleakala Field Station (2005)
Known distribution on Molokai of

*Pereskia aculeata*

![Map of Molokai showing distribution of *Pereskia aculeata*]

Legend:
- ▲ Red: Naturalized plants
- ▲ Green: Cultivated plants
- ▲ Orange: Status unknown plants
- /\ /\: Area surveyed
- /: 1000 foot contours

USGS-BRD-PIERC Haleakala Field Station (2005)
Known distribution on Molokai of *Phormium tenax*
Known distribution on Molokai of

*Pimenta dioica*
Known distribution on Molokai of

*Pinus* spp.
Known distribution on Molokai of

*Podranea ricasoliana*

![Map of Molokai showing the distribution of Podranea ricasoliana](image_url)

Legend:
- ▲ Red: Naturalized plants
- △ Green: Cultivated plants
- ○ Yellow: Status unknown plants

Surveyed areas:
- Area surveyed
- 1000 foot contours

Scale: 4 Miles

*USGS-BRD-PIERC Haleakula Field Station (2005)*
Known distribution on Molokai of

*Salsola tragus*

Survey:
- ▲ Naturalized plants
- ▲ Cultivated plants
- ▲ Status unknown plants
- - Area surveyed
- — 1000 foot contours

USGS-BRD-PIERC Haleakala Field Station (2005)
Known distribution on Molokai of
*Schefflera actinophylla*

- Naturalized plants
- Cultivated plants
- Status unknown plants
- Area surveyed
- 1000 foot contours

USGS-BRD-PIERC Haleakala Field Station (2005)
Known distribution on Molokai of

*Schefflera arboricola*
Known distribution on Molokai of

*Solandra maxima*

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- **Naturalized plants**: Red triangle
- **Cultivated plants**: Green triangle
- **Status unknown plants**: Yellow triangle
- **Area surveyed**: Area boundaries
- **1000 foot contours**: Contour lines

USGS-BRD-PIERC Haleakala Field Station (2005)
Known distribution on Molokai of 
*Sphaeropteris cooperi*
Known distribution on Molokai of
Tetragonia tetragonioides

USGS-BRD-PIERC Haleakala Field Station (2005)
Known distribution on Molokai of
*Thunbergia alata*

USGS-BRD-PIERC Haleakala Field Station (2005)
Known distribution on Molokai of

*Thunbergia fragrans*

Diagram showing the known distribution of *Thunbergia fragrans* on Molokai, with symbols indicating naturalized plants, cultivated plants, status unknown plants, area surveyed, and 1000 foot contours. The map is labeled with the USGS-BRD-PIERC Haleakala Field Station (2005) information.
Known distribution on Molokai of 
*Thunbergia grandiflora*
Known distribution on Molokai of *Thunbergia laurifolia*
Known distribution on Molokai of *Washingtonia* spp.