

Hawaii Plants

Hawaii is a group of volcanic islands.

Plants in Hawaii are chance arrivals from over 2,500 miles away.



Hawaii Plants

Polynesians arrived about 1,500 years ago and begin to introduce plants to the islands.

Europeans also bring plants in more modern times.

Many of these exotic plants have become more aggressive than local plants.



Hawaii Plants

Seeds for Hawaii's first plants arrived here by floating on the waves, being blown by the wind, or transported by traveling birds.



Coconut (*Cocos*)

Hawaii's Plants

Hawaiian flora is an amalgam of:

- Endemic
- Indigenous
- Polynesian
- Exotic
- Cultivated



Hawaii Plants

There are approximately 1,000 species native to Hawaii.

About half are endemic and occur nowhere else but Hawaii.

About one-third of these are considered threatened or endangered.



Hawaii Endemic Plants

There are about seven Hibiscus species found in Hawaii.

Mo'o hau hele (*Hibiscus brackenridgei*) is the Hawaiian State Flower.



Hawaii Endemic Plants

Koki'o ke'oke'o
Hibiscus arnottianus



Hawaii Endemic Plants

Hibiscus clayi



Hawaii Endemic Plants

Koki'o ke'oke'o
Hibiscus waimeae



Hawaii Endemic Plants

Ko'oloa'ula
Abutilon menziesii



Hawaii Endemic Plants

Loulu (Fan palms)
Pritchardia



Hawaii Endemic Plants

Alula
Brighamia insignis

Brighamia is functionally extinct in the wild because the exclusive pollinator for the flowers has gone extinct.



Hawaii Endemic Plants

Hawaiian silversword
Argyroxiphium sandwicense



Hawaii Endemic Plants

Mamane
Sophora chrysophylla



Hawaii Endemic Plants

'Ohi'a lehua (*Metrosideros polymorpha*)



Hawaii Endemic Plants

'Ohi'a lehua (*Metrosideros polymorpha*)

Metrosideros is considered sacred to Pele, the volcano goddess.



Hawaii Endemic Plants

Koa (*Acacia koa*)



Hawaii Endemic Plants

Hawaiian tree cotton
Kokia dryarioides



Hawaii Endemic Plants

Hapu (Hawaiian tree fern)
Cibotium glaucum



Hawaii Endemic Plants

Ohelo 'Ai (*Vaccinium reticulatum*)



Hawaii Endemic Plants

Ohelo Kau La'au
Vaccinium calycinum



Hawaii Endemic Plants

Pua kala
Argemone glauca



Hawaii Indigenous Plants

Other native Hawaiian plants are considered indigenous because they also occur in other locations outside of Hawaii.

Kou
Cordia subcordata



Hawaii Indigenous Plants

Forked fern (*Dicranopteris linearis*)



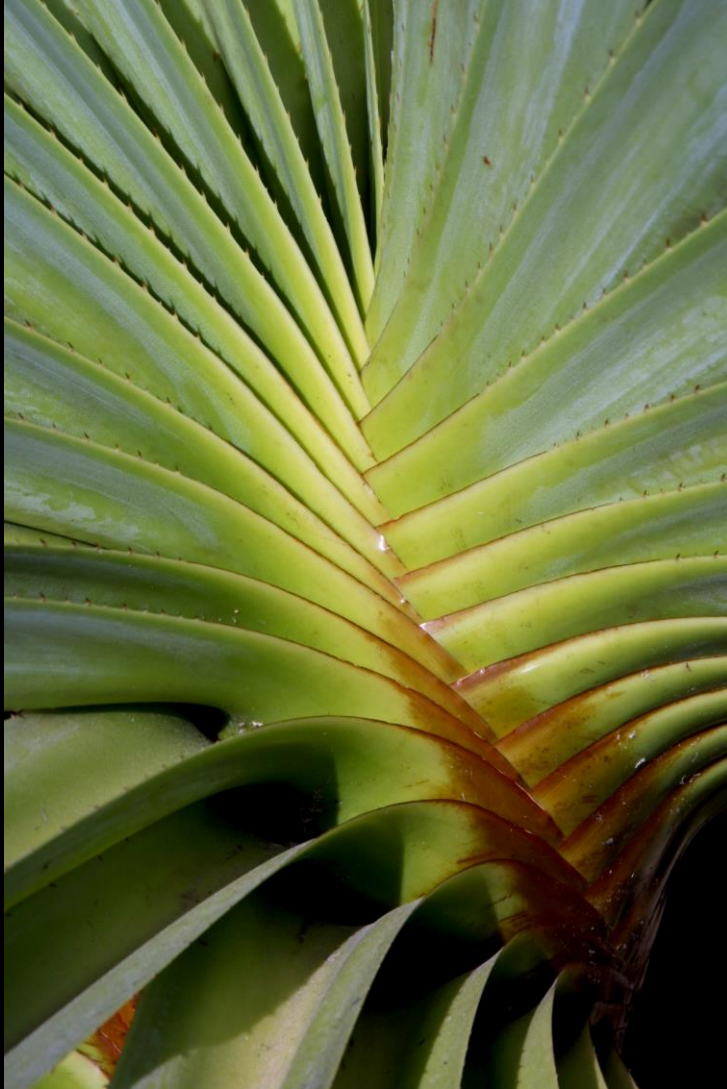
Hawaii Indigenous Plants

Florida hopbush
Dodonaea viscosa



Hawaii Indigenous Plants

Hala (screw pine)
Pandanus tectorius



Hawaii Indigenous Plants

Beach naupaka
(*Scaevola taccada*)



Hawaii Indigenous Plants

Beach naupaka (*Scaevola taccada*)



Hawaii Indigenous Plants

Ilima (*Sida fallax*)



Hawaii Indigenous Plants

Pukiawe
Leptecophylla (Styphelia) tameiameia



Canoe Plants

Canoe plants were originally brought to Hawaii by the ancient Polynesians.

The Polynesians came here by canoe, thus the name "canoe plants".

They are not native to Hawaii but are an important part of its cultural heritage.



Canoe Plants

Kukui or candlenut (*Aleurites moluccana*)

Kukui is the state tree of Hawaii.



Canoe Plants

Kukui or candlenut (*Aleurites moluccana*)

Oil extracted from the nut is used as lamp oil and as a linseed-like drying oil.

The nuts were roasted and used as a flavoring in cooking.



Canoe Plants

Milo (*Thespesia populnea*)

The wood was used to make food bowls and plates.

The bark was used for fiber to make rope.

The young leaves were eaten.

The fruits were used to make a yellowish green dye.



Canoe Plants

Breadfruit (*Artocarpus altilis*)



Canoe Plants

Coconut palm (*Cocos nucifera*)



Canoe Plants

Mastwood (*Calophyllum inophyllum*)

Mastwood trees were traditionally used by people in the Pacific Islands as timber for ships.



Canoe Plants

Noni (*Morinda citrifolia*)

The fruit was used medicinally and as a famine food.

The root was used to make yellow dye, while the bark was used for red dye.

Noni fruit is edible but can be foul-smelling. Usually blended into other fruit juices as a health drink.



Canoe Plants

Ti (*Cordyline fruticosa*)

Parts of the plants were used for medicinal purposes.

The leaves were used as food wrappers, plates, thatch, hula skirts, and sandals.

The tuber-like rhizomes were baked and eaten or fermented into alcohol.



Canoe Plants

Mountain apple (*Syzygium malaccense*)

The fruits were eaten and used in religious ceremonies.

Various parts of the plant were used for medicinal purposes.

Brown dye was made from the bark and red dye was made from the fruit skins.

The wood was used for building and carving.



Canoe Plants

Hau (*Hibiscus tiliaceus*)

The tough, light wood was used to make canoes.

The young bark was used for rope.

The bark was also used for medicinal purposes.



Canoe Plants

Shampoo ginger
Zingiber zerumbet

Flowers was used to
make shampoo.

The roots were used
medicinally and dried to
make a fragrant powder.

The leaves were
wrapped around baked
meat to flavor it.



Exotic Invasive Plants

Miconia
Miconia calvescens



Exotic Invasive Plants

Glory bush
Tibouchina urvilleana



Exotic Invasive Plants

Pampas grass
Cortaderia



Exotic Invasive Plants

Bengal trumpet
Thunbergia grandiflora



Exotic Invasive Plants

Barbados gooseberry
Pereskia aculeata



Exotic Invasive Plants

Plume poppy
Bocconia frutescens



Exotic Invasive Plants

False kava (*Piper auritum*)



Hawaiian Ornamental Plants

Red ginger
Alpinia purpurata

Shell ginger
Alpinia zerumbet



Hawaiian Ornamental Plants

Head gingers (*Costus*)



Hawaiian Ornamental Plants

Torch ginger
(*Etilingera elatior*)



Hawaiian Ornamental Plants

Indonesian wax ginger
Tapeinochilos ananassae



Hawaiian Ornamental Plants

White ginger lily
Hedychium coronarium



Hawaiian Ornamental Plants

Orange ginger lily
Hedychium coccineum



Kahili ginger lily
Hedychium gardnerianum



Hawaiian Ornamental Plants

Yellow ginger lily
Hedychium flavescens



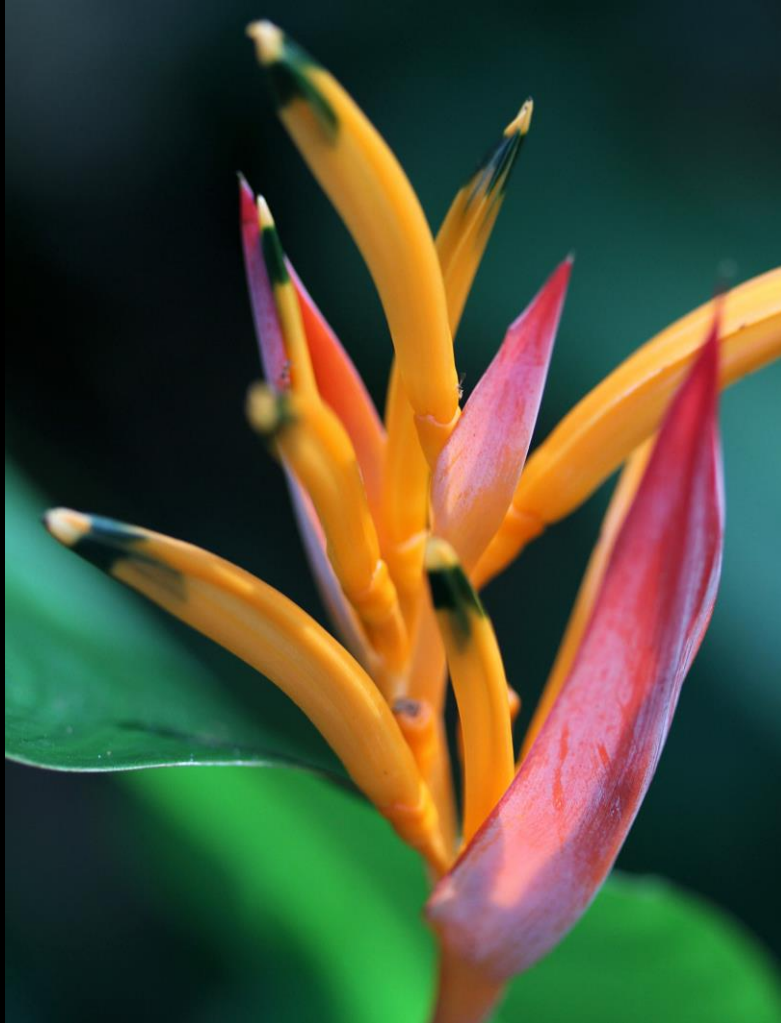
Hawaiian Ornamental Plants

Blue ginger
Dichorisandra thyrsiflora



Hawaiian Ornamental Plants

Parakeet heliconia
Heliconia psittacorum



Hawaiian Ornamental Plants

Expanded lobster claw
Heliconia latispatha



Hawaiian Ornamental Plants

Hanging lobster claw
Heliconia rostrata



Hawaiian Ornamental Plants

Heliconia



Hawaiian Ornamental Plants

Coral hibiscus
Hibiscus schizopetalus



Hawaiian Ornamental Plants

Mazapan
Malvaviscus penduliflorus



Hawaiian Ornamental Plants

Rose grape
Medinilla magnifica



Hawaiian Ornamental Plants

Bird of paradise
Strelitzia reginae



Hawaiian Ornamental Plants

Frangipani
Plumeria rubra



Hawaiian Ornamental Plants

Frangipani (*Plumeria rubra*)



Hawaiian Ornamental Plants

Octopus tree
Shefflera actinophylla



Hawaiian Ornamental Plants

Royal poinciana (*Delonix regia*)



Hawaiian Ornamental Plants

Orchid tree
Bauhinia galpinii



Hawaiian Ornamental Plants

Golden showers
Cassia fistula



Hawaiian Ornamental Plants

Pink showers
Cassia javanica



Hawaiian Ornamental Plants

Rainbow showers
Cassia xnealiae



Hawaiian Ornamental Plants

African tulip tree
Spathodea campanulata



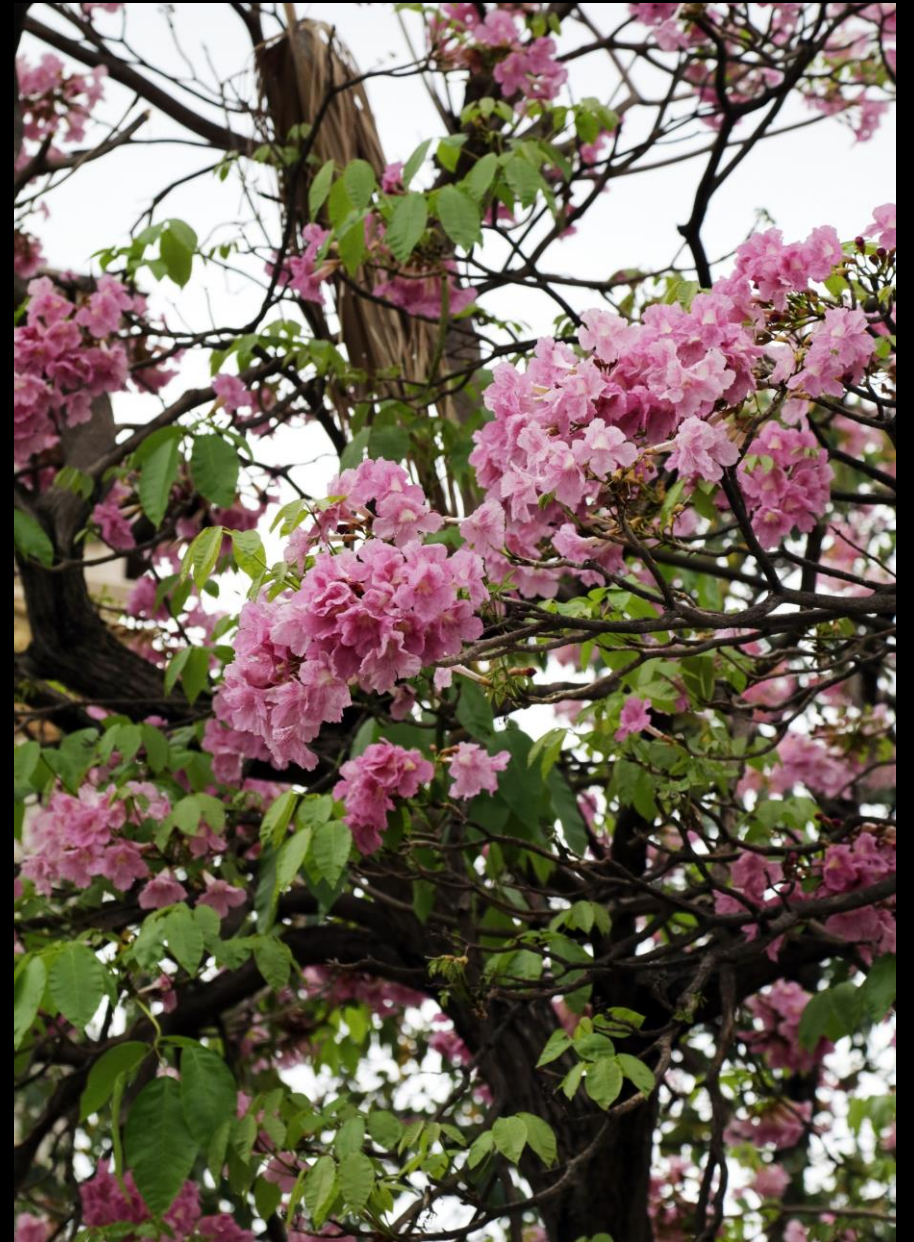
Hawaiian Ornamental Plants

Golden Trumpet tree
Handroanthus (Tabebuia) chryso-tricha



Hawaiian Ornamental Plants

Pink Trumpet tree
Handroanthus (Tabebuia) heterophylla



Hawaiian Ornamental Plants

Be-still tree
Thevetia peruviana



Hawaiian Ornamental Plants

Autograph tree
(*Clusia rosea*)

Autograph tree has a strangler life cycle. Autograph tree gets its common name from the way it retains writing that are scratched into the leaf.



Autograph tree has a strangler plant.



Hawaiian Ornamental Plants

Sea grape
Coccoloba uvifera



Beach and Shoreline plants

Sea-side morningglory (*Ipomoea pescaprae*)



Beach and Shoreline plants

Tree heliotrope
Tournefortia argentea



Beach and Shoreline plants

Indian almond
Terminalia catappa



Beach and Shoreline plants



Mangroves

Beach and Shoreline plants

Red mangrove
Rhizophora mangle



Oriental mangrove
Bruguiera gymnorhiza



Button mangrove
Canocarpus erectus

