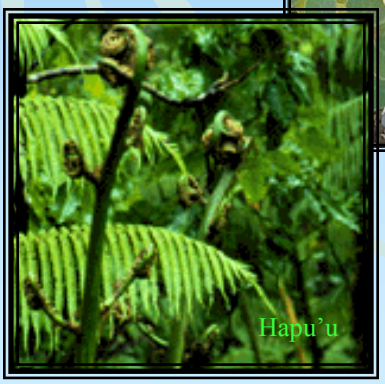
Kona's



Native Hawaiian Plants

USDA NRCS
U.S. Department of Agriculture
Natural Resources Conservation Service

Kona Soil and Water
Conservation District

Kona's Native Hawaiian Plants

Business Name

Save Hawaii's Native Ecosystem

Hawaii's vegetation is made up of more than 1,100 very special species, most of which occur solely here in the islands. Many of them evolved in Hawaii from ancestors who arrived on these isolated islands millennia ago, and are found nowhere else on Earth. If these plants were to disappear, they would be gone forever, never to be seen by future generations. Sadly, the extinction of many native Hawaiian species has already occurred, and many other species are traveling down the same path. At current estimates, Hawaii's native species make up more than one third of the United State's Endangered Species List. The cause of this loss is a mixture of many factors, mostly the invasion of alien species and habitat destruction.

Throughout history many things have been altered in Hawaii's landscape. The arrival of humans, starting with the Polynesians, created problems for many native species. When humans arrived, they brought with them the comforts of home. This included plants and animals they were accustomed to in their homeland. People introduced pigs, goats, cattle, agricultural crops, trees, and other seemingly harmless alien life forms. Other alien species were introduced accidentally.

Help save Kona's native plants

Feral pigs damage many acres of native forest. They plow the native understory, killing many of the plants. Also, they cause extensive damage to hapu'u (native tree ferns). Pigs knock down tree ferns and eat the starchy inner core. Clearings created by pigs promote the growth of weeds and leave soil susceptible to erosion.

Rats feed on seeds of many native plants, preventing the plants from reproducing. Alien insects bore into twigs and eat native seeds. Weeds are a major problem in the islands. Many introduced trees, shrubs, grass, vines, and ferns are very competitive against native species. Some grasses and ferns promote wildfires that can wipe out a native forest in hours.

One simple way of helping our native forest is to propagate native plants. You can help by purchasing native plants and cultivating them on your property. This will increase the chance they will survive in Hawaii for future generations to enjoy.

Another way to help the native vegetation is by reducing populations of alien species, especially ones that are killing native flora and taking over their habitats.

This publication was written in order to promote the use of native plants for ecological restoration and landscaping, and to help landowners choose species that are suitable for their property. It includes many of the plant species that occur naturally in North and South Kona. Some of these plants can be purchased at retail nurseries, and some may already be growing on your property.

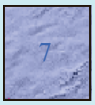
The climate zone maps on the next two pages can help you determine which native plant species are suitable for your location. To some extent, different soils found within a given climate zone will support similar plant species. However, properties located on very young lava flows with very thin organic soils are suitable for growing only a sparse cover of a few species. More information about correlating native species with specific soil types will be available soon from NRCS.

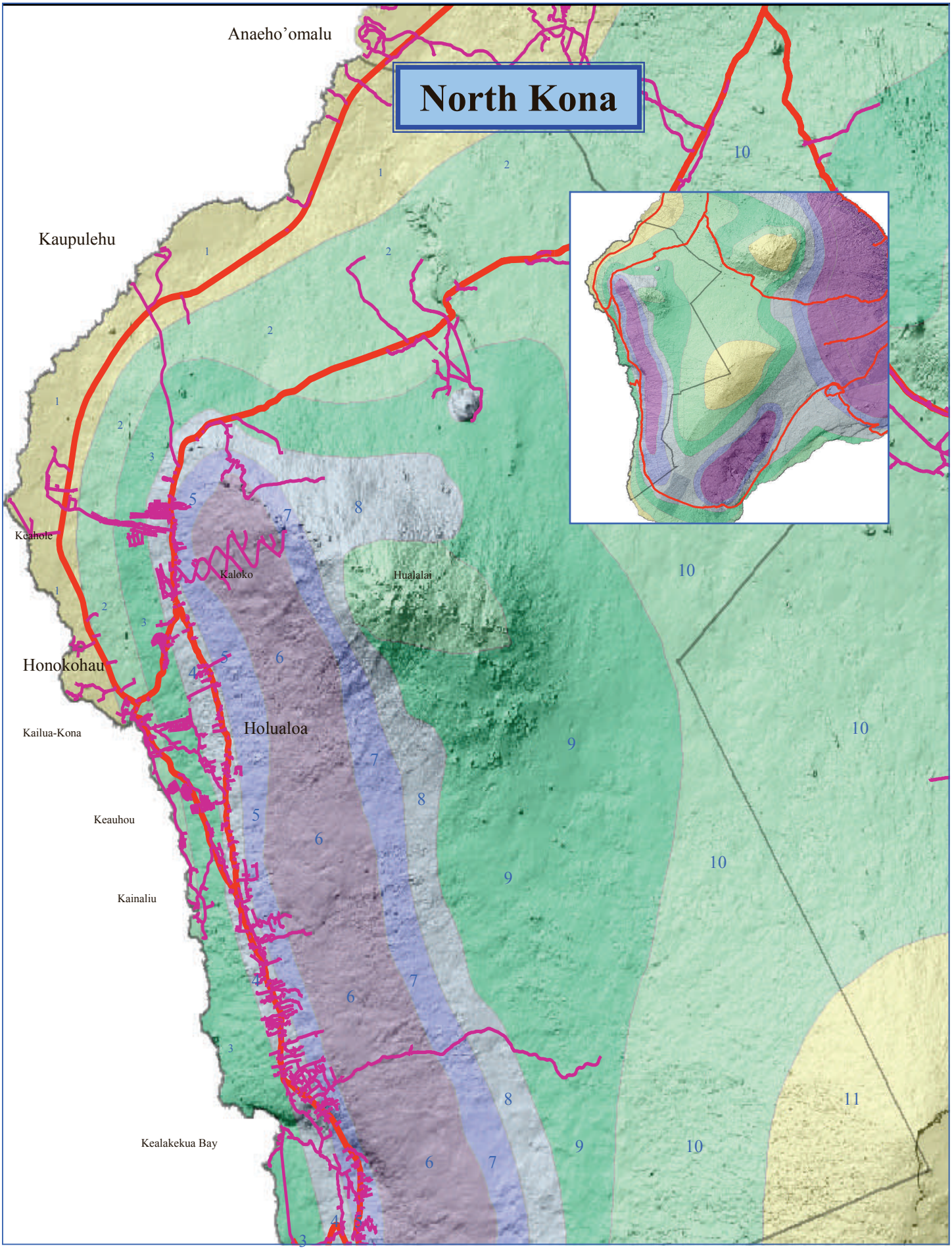
To use the map, locate your property and determine the number of the zone in which it is located. The plants shown in the brochure are numbered as to their suitable habitats.

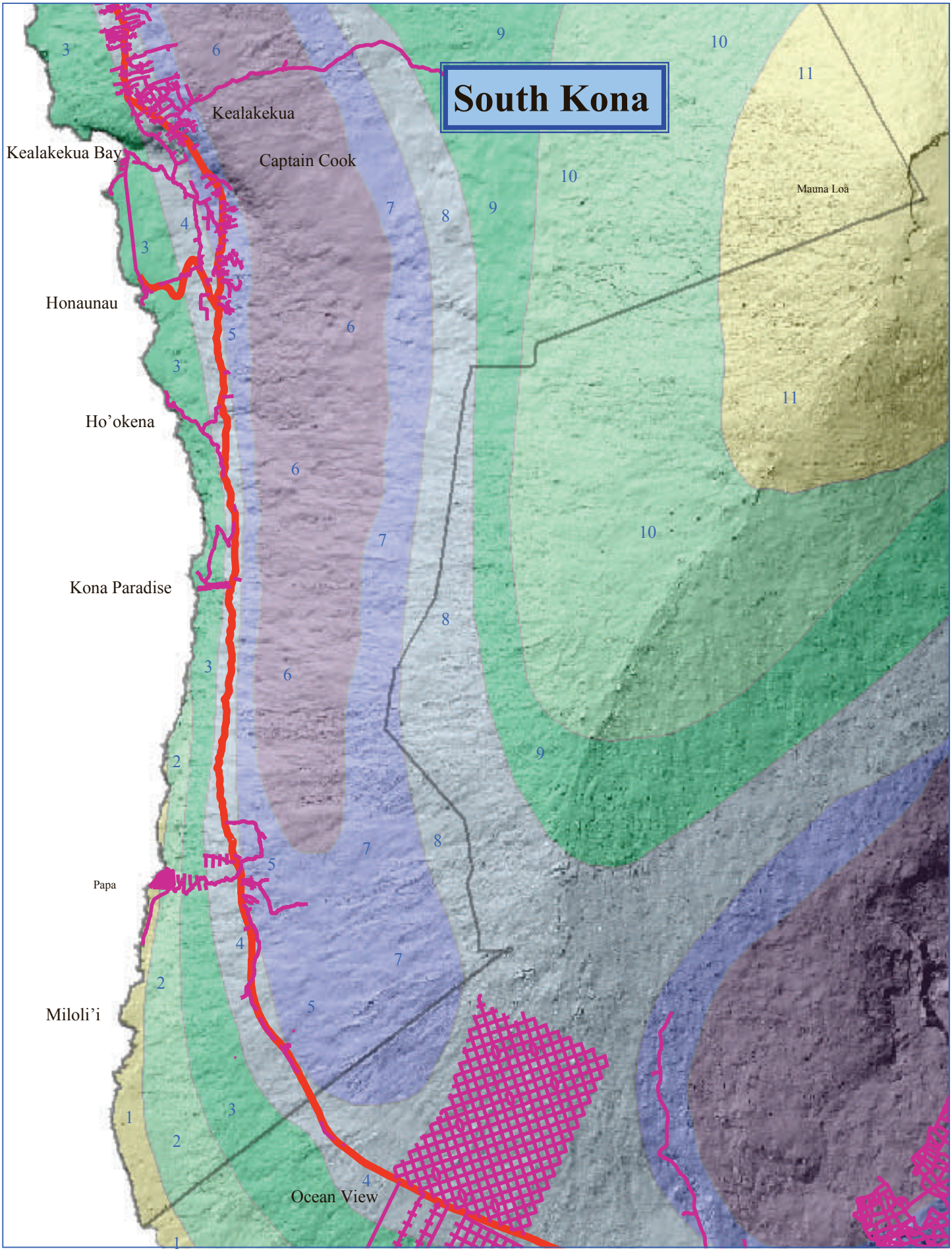
Threatened and endangered species can be bought and planted in yards for landscaping. However, commercially-bought specimens are not to be used in large-scale restoration projects without a permit.

Makai

Mauka

Zone	Map Symbol	Zone Description
Arid		A very hot, dry zone found along part of the Kona coast. Plants must tolerate drought and salt spray. Mostly shrubs, grasses, and vines.
Dry		Hot and dry. Shrubs, grasses, vines, and widely-spaced small trees live here.
Moderately Dry		Hot and dry, but able to support many shrubs, grasses, vines, and a fairly dense stand of small to medium size trees.
Seasonal Mesic		"Mesic" means a moderately moist climate. This zone is warm and dry, but moist for part of the year. Many trees, shrubs, grasses, vines, and herbs thrive in this zone.
Moist Mesic		This zone supports a mix of plants that live in moist and dry environments. It can support a dense and very diverse forest with fairly tall trees.
Wet		The rain forest zone, with very large trees, dense tree ferns, and many different species.
Moist Mesic		Transition from rain forest to high elevation drier forest. Koa trees become more common, while tree ferns are smaller and less numerous.
Seasonal Mesic		A fairly dry environment that can support large koa and ohia trees, along with sandalwood and mamane.
Moderately Dry		Dry and cool, with medium sized koa, mamane, sandalwood, and shrubs.
Dry		Very dry and cool, with small mamane, shrubs, and grasses.
Arid		Very dry and cold. Plants must be able to withstand winter drought and frost. Vegetation is short and very sparse.


North Kona
Anaeho'omalu
Kaupulehu
Kealhole
Kaloko
Hualalai
Honokohau
Kailua-Kona
Holualoa
Keauhou
Kainaliu
Kealakekua Bay


South Kona
Kealakekua
Kealakekua Bay
Captain Cook
Honaunau
Ho'okena
Kona Paradise
Papa
Miloli'i
Ocean View
Mauna Loa

~ Plant Kona's Native Beauties~

Indigenous/Endemic to Hawaii	
Indigenous: Aa	Native (arrived in Hawaii without human intervention) species that occur in Hawaii and other places.
Endemic: Aa	Native (arrived in Hawaii without human intervention) species that are unique to Hawaii.
Endangered:	Species that are very few in number and at risk of becoming extinct.

PICTURE
of
PLANT

Common Name
Scientific Name
Climate Zone(s)

Shrubs

`A`ali`i
Dodonaea viscosa
1,2,3,4,5, 8,9

ʻAheahea
Chenopodium oahuense
2,3

`Ākia
Wikstromia sandwicensis
Wikstromia pulcherrima
3,4,5

`Ākala
Rubus hawaiensis
6,7,8

USDA NRCS
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Natural Resources Conservation Service

Āulu
Papala kepau
Pisonia sandwicensis
Pisonia brunoniana
5,7

Clermontia
Clermontia clermontioides
Clermontia hawaiiensis
Clermontia parviflora
Clermontia montis-loa
5,6,7

Na`ena`e
Dubautia ciliolata
Dubautia scabra
8,9,10

‘Ohai
Sesbania tomentosa
1,2

`Iliahialo`e, Coast sandalwood
Santalum ellipticum
1,2,3

`Ilihia
Cyrtandra platyphylla
5,6

‘Ilie’e
Plumbago zeylanica
2,3

`Ilima
Sida fallax
1,2,3,4

Kanawao
Broussaisia arguta
6

Kōlea lau li`i`
Myrsine sandwicensis
5,6,7

Kolokolo kahakai
Vitex rotundifolia
1,2

Kolomona
Senna gaudichaudii
2,3,4

Ko'oko'olau
Bidens menziesii
8,9

Ko'oloa'ula
Abutilon menziesii
2,3

Kukaenene
Coprosma ernodeoides
9,10

Kulu'I
Nototrichium sandwicense
2,3,4

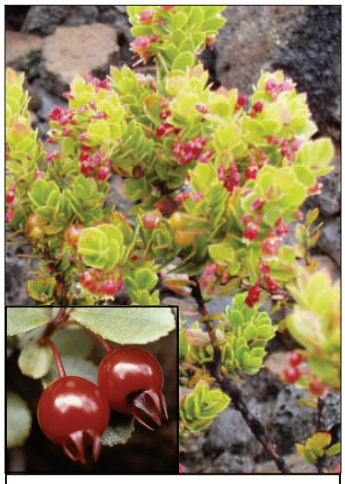
Maiapilo
Capparis sandwichiana
1,2,3

Ma`o hau hele
Hibiscus brackenridgei
4,5

Mint (native)
Stenogyne microphylla
8,9

Naupaka kahakai
Scaevola sericea
1,2,3

'Ōhelo
Vaccinium calycinum
5,6,7



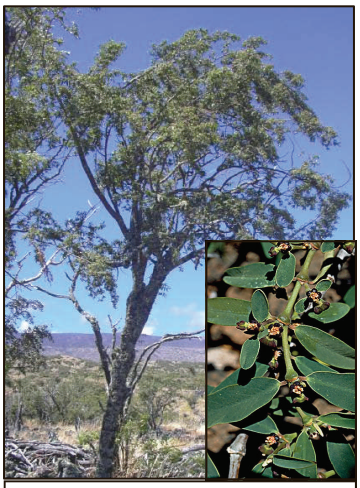
'Ōhelo
Vaccinium reticulatum
7,8,9,10

Pilo
Coprosma montana
7,8,9

'Ulei
Osteomeles anthyllidifolia
2,3,9,10

Trees

A'e
Sapindus saponaria
4,5



'Akoko
Chamaesyce olowaluana
9,10

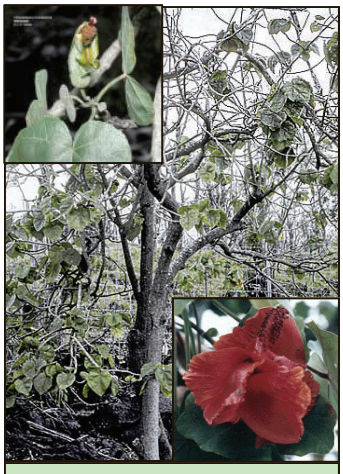
'Āla'a
Pouteria sandwicensis
3,4,5

Alahe'e
Psydrax odoratum
3,4,5

Hala
Pandanus tectorius
1,2,3,4

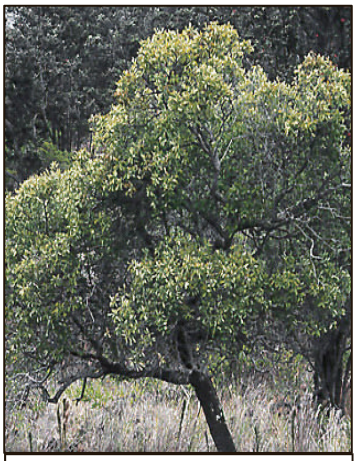
Hala pepe
Pleomele hawaiiensis
3,4

Hame
Antidesma platyphyllum
Antidesma pulvinatum
5,6,7



Hau kuahiwi
Hibiscadelphus hualalaiensis
3,4

Hō`awa
Pittosporum hosmeri
4,5



`Iliahi, Sandalwood
Santalum paniculatum
4,5,7,8,9

Kauila, Kauwila, O'a
Alphitonia ponderosa
4,5

Kauila, Kauwila

Colubrina oppositifolia

2,3,4

**Kāwa`u,** `Aiwa

Ilex anomala

6,7

Keahi

Nesoluma polynesicum

4,5

Koa

Acacia koa

6,7,8,9

Koki`o

Hibiscus kokio

3,4,5

Koki`o

Kokia drynarioides

4

Kōlea lau li'i

Myrsine lanaiensis
Myrsine lessertiana

4,5,6,7,9

Kopiko

Psychotria hawaiiensis
Psychotria mauiensis

4,5,6,7

Kolokolo mokihana

Melicope clusiifolia
Melicope hawaiiensis

4,5,6

Kou

Cordia subcordata

2

Lama

Diospyros sandwicensis

2,3,4,5

Loulu, Fan palm

Pritchardia affinis
Pritchardia schattaueri

1, 2, 3, 4,

Māmani

Sophora chrysophylla

2,3,4,7,8,9,10

Māmaki

Pipturus albidus

5,6,7

Manono

Kadua axillaris
Kadua affinis

4, 5, 6, 7, 8

Maua, A‘e

Xylosma hawaiiense

3,4

Naio

Myoporum sandwicense

3,4,5,8,9

‘Ohe

Reynoldsia sandwicensis

3,4

‘Ohe

Tetraplasandra hawaiensis

4,5,6

‘Ōhi‘a lehua

Metrosideros polymorpha

3,4,5,6,7,8,9,10

Olomea

Perrottetia sandwicensis

6,7

Olopua

Nestegis sandwicensis

3,4,5

Uhiuhi

Caesalpinia kavaiensis

3,4,5

Wiliwili

Erythrina sandwicensis

2,3

Herbs

`Ala`ala wai nui
Peperomia spp.
4,5,6,7

Ko`oko`olau
Bidens micrantha
1,2,3

Pua kala
Argemone glauca
4,8

Wood rush
Luzula hawaiiensis
7,8,9

Kaluaha, Pua'akuhinia
Astelia menziesiana
6,7

`Ala`ala wai nui
Plectranthus parviflorus
2,3

'Uki'uki
Dianella sandwicensis
5,6,7,8,9

Vines and Climbers

Hoi kuahiwi
Smilax melastomifolia
6

Huehue
Cocculus orbiculatus
1,2,3,4,5

`Ie`ie
Freycinetia arborea
5,6,7

Kā`e`e
Mucuna gigantean
2,3

Kākalaioa

Caesalpinia bonduc

4,5

Maile

Alyxia oliviformis

5,6,7

Mohihihi

Vigna marina

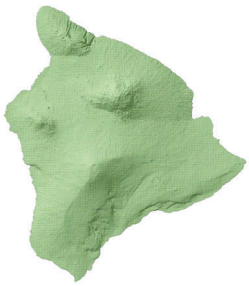
1,2,3

Pā‘ūohi`iaka

Jacquemontia ovalifolia

1,2,3

Ferns



Hapu`u, Hawaiian tree fern

Cibotium chamissoi
Cibotium glaucum
Cibotium menziesii

5,6,7

Asplenium

Asplenium spp.

4,5,67

Diplazium

Diplazium spp.

4,5,6,7

Dryopteris

Dryopteris spp.

3,4,5,6,7

‘I’o nui

Dryopteris wallichiana

5,6,7,8

Pala`ā, Pala`s; Palapala`ā

Sphenomeris chinensis

5,6,7

Palapalai

Microlepia strigosa

5,6,7

Pneumatopteris

Pneumatopteris spp.

5,6,7

Uluhe

Dicranopteris linearis

5,6,7

Retailers:

Future Forests
PO Box 847
Kailua Kona, HI 96745
Tele: 325-2377

Amy Greenwell Ethnobotanical Garden
82-6188 Mamalahoa Highway
Captain Cook, HI 96704
Tele: 323-3318

State Tree Nursery
Division of Forestry and Wildlife
Kamuela, HI
Tele: (Hilo) 974-4221

Makani Gardens
1625 West Kuiaha Rd.
Haiku, HI 96708
Tele: (Maui) 808-572-6337

Hawaii Reforestation Nursery Services, LLC
6281 Kawaihau Rd E1
Kapaa, HI 96746
Tele: 821-8841

Nursery Solutions, Inc.
73-4301 Lani St.
Kailua Kona, HI 96740
Tele: 331-8535

Grow Native Corporation
PO Box 753
M. View, HI 96771
Tele: 968-8350

Mauna Ikena
PO Box 1337
Keaau, HI 96749
Tele: 966-6337

Kauai Nursery & Landscaping
3-1550 Kaumualii Hwy.
Lihue, HI 96766
Tele: 808-245-7747

Aileen's Nursery
942 W. Kawailani St.
Hilo, HI 96720

Notes

Kona's Natives are Beautiful

This informational packet was created as an effort to promote the cultivation of native Hawaiian plants, especially ones that are on the brink of extinction. Flora that has had a questionable historic existence in this region has been included in an effort to help restore Hawaii's native vegetation.

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