

Salt and Wind Tolerance of Landscape Plants for Hawaiii

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Landscaping near the ocean in Hawai'i can be challenging and frustrating because of sea salt and wind. Salt can be deposited on leaves and in soils by wind carrying ocean spray, by high surf, or by irrigating with brackish water. Also, high water tables in some coastal areas result in severe soil salinity.

Landscape professionals, property managers, and homeowners are concerned with the survival, growth, and appearance of landscape plants. Damage to plants resulting from high levels of salt usually appears as a burning of the margins or tips of the leaves, followed by defoliation and death of sensitive species. The leaves may sometimes be bluish, whitish, or off color, and the plant may wilt easily even though soil water is adequate.

Excessive salt levels most often damage plants by causing dehydration. Because of the salt, water moves out of the roots or leaves through a process called osmosis. In addition, plants may accumulate sodium or chloride ions, and these can eventually reach toxic levels. Research has shown that plant tolerance of salt results from one or more of the following mechanisms, whereby the plant either

- prevents the absorption of sodium or chloride ions by its roots or leaves,
- tolerates the accumulation of sodium or chloride ions in its tissues, or
- tolerates the osmotic stress caused by salt in the soil or on its leaves.

*Patti Clifford is a weed risk assessment specialist with the Hawai'i Invasive Species Council. She provided the weed risk category designations for this revision. She also updated some of the botanical names that had been changed since this publication was originally issued in 1996.

The tolerance or response of plants to salt can vary with cultivars, the plant age and growth stage, environmental conditions, cultural practices, irrigation management, soil fertility, and the intensity of other stresses on the plant. Also, some plants may be tolerant of salt in the soil but intolerant of salt deposited on their leaves, or vice versa.

Wind can be as injurious to plants as salt. When the two are combined near the ocean, plants suffer even greater damage.

The following tables were compiled by the authors and reflect both research findings and years of observation of plants in Hawai'i's landscapes. The tables should help landscape professionals and homeowners select suitable plant materials for coastal sites.

The tables list the botanical name, common name, and height of many common (and some uncommon) land-scape plants in Hawai'i. Each plant category is divided into zones according to salt tolerance.

Zone 1 plants are highly salt and wind tolerant and can be used in exposed locations, such as areas near the beach receiving direct winds from the ocean. These plants are tolerant of soil salinity and wind-borne salt. During severe storms and hurricanes, even plants listed in Zone 1 may experience moderate to severe salt and wind injury.

Zone 2 plants are moderately tolerant of soil salinity and usually tolerate light salt spray but should not be used in exposed locations. They may be sensitive to wind or to medium or heavy salt spray. These plants do best when protected by buildings, fences, or plantings of Zone 1 species. Zone 2 plants and more sensitive plants may be damaged if seaside wind buffers are removed to

enhance an ocean view. Zone 2 plants would likely be suitable for landscapes irrigated with brackish water.

Weed risk categories

Invasive plant species pose environmental risks and should be avoided. The Hawai'i Noxious Weed List, the Hawai'i Alien Species Coordinator list, and the Hawai'i-Pacific Weed Risk Assessment (HP-WRA) websites are sources of information about species invasiveness. Details about HP-HWRA assessment can be found at www.hear.org/wra.

Within the context of the HP-WRA, *invasive* means spreading beyond the intended area of cultivation and having significant ecological or economic impacts as a weed. Species listed that are designated "L" have been scored as low risk (unlikely to become invasive in Hawai'i). "U" indicates that the plant has not yet been assessed; the Hawai'i Invasive Species Council will schedule species for assessment upon request (contact hpwra@yahoo.com). Species designated "H" are high risk; they have been assessed as either likely to be or documented as invasive in Hawai'i. However, the website www.botany.hawaii.edu/faculty/daehler/wra contains the following clarification about this assessment:

The "H" designation is an indication of risk in at least some environments, but it does not mean "do not plant." Some plants with the "H" designation have high economic value and suitable alternatives may not be available. Examples include St. Augustine grass (Stenotaphrum secundatum) and seashore paspalum (Paspalum vaginatum), both of which are widely planted turf grasses. Further planting of these species is unlikely to cause problems, although you might want to exercise caution if planting adjacent to a natural wetland (seashore paspalum) or adjacent to a coastal nature reserve (St. Augustine grass). While you may chose to request that a contractor or landscape architect minimize the use of species with "H" ratings, there may be some circumstances and environments where a species with an "H" rating poses little risk while also providing great benefits. Therefore, it is not appropriate to interpret the "H" rating strictly to mean, "do not plant."

Key to the table

Left-hand column

- n = Native or indigenous Hawaiian plant
- p = Polynesian introduced or "heritage" plant

Weed risk assessment

- L = Not currently recognized as invasive in Hawai'i, and not likely to have major ecological or economic impacts on other Pacific Islands based on the HP-WRA screening process.
- H = High risk species that are either pests or likely to become pests.
- U = Species not yet evaluated.
- E = "Evaluate"; some species have gone through an initial assessment, but not enough information is available yet to confirm a designation.

Blank = a native species.

Note

Botanical names have been updated in this revised publication based on Staples and Herbst (2005), the Bishop Museum Online Cultivated Plant List, the USDA Germplasm Resources Information Network, and the International Plant Names Index.

References

- Daehler, C. Weed risk assessments for Hawaii and Pacific Islands. http://www.botany.hawaii.edu/faculty/daehler/wra.
- Division of Plant Industry, Hawai'i Department of Agriculture. 1992. List of plant species designated as noxious weeds for eradication or control purposes by the Hawaii Department of Agriculture. Chapter 68. http://www.hawaii.edu/ehso/bio/weedlist.pdf.
- Hawai'i State Alien Species Coordinator. 2001. Hawaii's most invasive horticultural plants. Division of Forestry and Wildlife, Hawai'i Department of Land and Natural Resources. http://www.state.hi.us/dlnr/dofaw/hortweeds/specieslist.htm.
- Staples, G.W., and D.R. Herbst. 2005. A tropical garden flora: Plants cultivated in the Hawaiian Islands and other tropical places. Bishop Museum Press, Honolulu.

| | Botanical name | Common name | Height (inches) | HP-WRA | | |
|---|-----------------------------------|-------------------------------|-----------------|--------------|--|--|
| G | Groundcovers — Zone 1 | | | | | |
| | Aloe spp. | aloe | 18 | | | |
| | Argusia gnaphalodes | sea lavender | 60 | | | |
| | Asparagus setaceus | asparagus fern | variable | Н | | |
| | Asparagus densiflorus 'Sprengeri' | Sprenger asparagus fern | variable | Н | | |
| n | Capparis sandwichiana | maiapilo, pua pilo | 48 | | | |
| | Carissa macrocarpa | dwarf Natal plum | 24 | L | | |
| n | Chamaesyce degeneri | beach spurge, 'akoko, koko | 5 | | | |
| | Epipremnum pinnatum | pothos | 8 | Н | | |
| | Glottiphyllum depressum | fig marigold | 6 | N | | |
| n | Heliotropium anomalum | | | | | |
| | var. argenteum | hinahina kū kahakai | 6 | | | |
| n | Ipomoea pes-caprae | | | | | |
| | subsp. Brasiliensis | beach morning glory, pohuehue | 6 | | | |
| n | Jacquemontia ovalifolia | pā'ūoHi'iaka | 4 | | | |
| | subsp. sandwicensis | - | | | | |
| n | Lipochaeta integrifolia | nehe | 12 | | | |
| n | Lycium sandwicense | ʻōhelo kai, ʻae ʻae | 6 | U | | |
| n | Nama sandwicense | Hawaiian nama | 4 | Н | | |
| | Phyla nodiflora | lippia | 2 | U | | |
| | Portulaca spp. | purslane | 6 | | | |
| n | Portulaca lutea | 'ihi, native yellow portulaca | 36 | | | |
| n | Sesbania tomentosa | 'ohai | 12 | | | |
| n | Sesuvium portulacastrum | ʻākulikuli | 12 | | | |
| | Sphagneticola trilobata | wedelia | 12 | U | | |
| n | Sporobolus virginicus | aki aki | 12 | | | |
| n | Vitex rotundifolia | beach vitex, pōhinahina | 24 | | | |
| G | roundcovers — Zone 2 | | | | | |
| | Alternanthera amoena | joy weed | 12 | U | | |
| | Asystasia gangetica | coromandel | 12 | Н | | |
| | Bidens mauiensis | koʻokoʻolau | 36 | U | | |
| | Carpobrotus edulis | hottentot fig | 6 | Н | | |
| | Ficus pumila | creeping fig | 2–12 | L | | |
| | Gaillardia pulchella | blanket flower | 18 | U | | |
| | Helianthus debilis | beach sunflower | 18 | \mathbf{U} | | |
| | Hemerocallis spp. | daylily | 24 | U | | |
| n | Jacquemontia ovalifolia | pā'ūoHi'iaka | 48 | | | |
| | subsp. sandwicensis | • | | | | |
| | Kalanchoe spp. | kalanchoe | 12–24 | L, E | | |
| | Lantana montevidensis | weeping lantana | 18–24 | H | | |
| | Liriope spicata | lilyturf | 8 | Н | | |
| | Lonicera japonica | Japanese honeysuckle | variable | Н | | |
| | Ophiopogon japonicus | mondo grass | 6 | L | | |
| | Pseudogynoxys chenopodioides | Mexican flame vine | variable | U | | |
| | | | | | | |

| | Botanical name | Common name | Height (inches) | HP-WRA |
|---|----------------------------|----------------------------|-----------------|--------|
| | Sansevieria trifasciata | snake plant | 30 | Н |
| n | Sida fallax | ʻilima papa | 6 | |
| | Tecoma capensis | Cape honeysuckle | 72 | U |
| | Trachelospemum jasminoides | Confederate jasmine | variable | L |
| | Tradescantia pallida | purple queen, purple-heart | 24 | U |
| | Tradescantia pendula | wandering jew | 6 | U |
| | Tradescantia spathacea | oyster plant | 12 | U |
| n | Vitex rotundifolia | beach vitex, pōhinahina | 4 | U |
| n | Wikstroemia uva-ursi | ʻakia | 18 | |
| | Zamia pumila | coontie | 24 | U |

Palms — Zone 1

These palms will survive in sites exposed to salt and wind, but their appearance is much better when they are provided with some wind protection. Plant palms in groups or combine them with exteremely salt-tolerant plants for protection.

| | Coccothrinax barbadensis | silver palm | 20 | U |
|---|--------------------------|----------------------|----|---|
| p | Cocos nucifera | coconut | 80 | L |
| | Dictyosperma album | princess palm | 30 | L |
| | Hyophorbe lagenicaulis | bottle palm | 15 | L |
| | Phoenix dactylifera | date palm | 50 | U |
| | Phoenix reclinata | Senegal date palm | 25 | U |
| n | Pritchardia affinis | Kona loulu | 25 | |
| | Pritchardia pacifica | Fiji Island fan palm | 25 | L |
| | Pritchardia thurstonii | Masai palm | 25 | L |
| | Sabal palmetto | cabbage palmetto | 30 | U |
| | Serenoa repens | saw palmetto | 8 | U |
| | Thrinax microcarpa | brittle thatch palm | 12 | U |
| | Thrinax radiata | thatch palm | 20 | L |
| | Washingtonia robusta | washingtonia palm | 80 | Н |

Palms — Zone 2

Many recent palm introductions are adapted to Zone 2.

| Acoelorrhaphe wrightii | paurotis palm | 20 | Е |
|--------------------------------|----------------------------|----|---|
| Acrocomia armentalis | acrocomia | 40 | U |
| Butia capitata | pindo palm, butia | 30 | U |
| Chamaerops humilis | European fan palm | 10 | U |
| Dypsis lutescens | areca palm, butterfly palm | 30 | U |
| Elaeis guineensis | African oil palm | 60 | Н |
| Hyphaene thebaica | gingerbread palm | 25 | U |
| Latania loddigesii | blue latan palm | 40 | L |
| Livistona chinensis | Chinese fan palm | 30 | E |
| Phoenix canariensis | Canary Island date palm | 30 | U |
| Pritchardia spp. (~30 species) | loulu palm | 30 | |

n

| | Botanical name | Common name | Height (inches) | HP-WRA |
|----|--------------------------------|---------------------------------------|-----------------|--------------|
| | Ptychosperma elegans | solitaire palm | 20 | E |
| | Roystonea regia | royal palm | 80 | U |
| | Veitchia merrillii | Manila palm | 15 | L |
| Sl | hrubs — Zone 1 | | | |
| | Agave americana | century plant | 4–8 | \mathbf{U} |
| | Ardisia escallonioides | marlberry | 10 | U |
| | Batis maritima | 'ākulikuli kai, pickleweed, salt wort | 3 | U |
| n | Capparis sandwichiana | maiapilo | 4 | |
| | Carissa macrocarpa | | | |
| | (dwarf cvs. available) | Natal plum | 10 | L |
| | Chrysobalamus icaco | coco plum | 10 | U |
| | Cortaderia selloana | pampas | 8 | H |
| | Gardenia taitensis | tiare gardenia | 15 | L |
| | Morella cerifera | wax myrtle | 12 | U |
| | Nerium oleander | oleander, dwarf oleander | 15, 3 | L |
| n | Osteomeles anthyllidifolia | ʻulei | 2 | |
| | Pittosporum tobira 'Variegata' | variegated Japanese pittosporum | 5 | U |
| | Pittosporum tobira 'Wheeleri' | Wheeler's dwarf pittosporum | 4 | U |
| | Russelia equisetiformis | coral plant | 4 | L |
| n | Scaevola taccada | naupaka | 10 | |
| n | Sesbania tomentosa | 'ohai | 2 | |
| | Vitex agnus-castus | chaste tree | 15 | U |
| | Yucca aloifolia | Spanish bayonet | 15 | U |
| | Yucca elephantipes | spineless yucca | 15 | U |
| | Yucca flaccida | Adam's needle | 3 | U |
| Sl | hrubs — Zone 2 | | | |
| | Acacia farnesiana | acacia | 10 | Н |
| | Acalypha wilkesiana | acalypha | 8 | L |
| | Acca sellowiana | pineapple guava | 12 | U |
| | Alpinia nutans | shell ginger | 6 | U |
| | Caesalpinia pulcherrima | dwarf poinciana, 'ohai ali'i | 9 | L |
| | Callistemon citrinus | red bottlebrush | 20 | L |
| | Cestrum nocturnum | night-blooming jasmine | 8 | H |
| | Crassula ovata | jade plant | 3 | U |
| | Cuphea hyssopifolia | cuphea | 2 | L |
| | Cycas circinalis | queen sago palm | 15 | U |
| | Cycas revoluta | sago palm | 10 | L |
| | Dracaena arborea | tree dracaena | 10 | U |
| | Dracaena draco | dragon tree | 15 | L |
| | Dracaena fragrans | dracaena fragrans | 20 | L |
| | Dracaena marginata | dracaena marginata | 15 | L |
| | Duranta erecta | golden-dewdrop | 10 | U |

| | Botanical name | Common name | Height (inches) | HP-WRA |
|----|---------------------------------------|-----------------------------------|-----------------|--------|
| | Eranthemum pulchellum | blue sage | 4 | L |
| | Euphorbia milii | crown-of-thorns | 2–5 | L |
| | Ficus carica | common fig, piku | 15 | L |
| | Ficus microcarpa | wax fig | 12 | Н |
| | Fortunella japonica | kumquat | 10 | U |
| | Hamelia patens | scarlet bush | 10 | Н |
| | Holmskioldia sanguinea | Chinese hat, cup-and-saucer plant | 15 | L |
| | Homalocladium platycladum | ribbon bush | 5 | U |
| | <i>Ilex vomitoria</i> (and cultivars) | yaupon holly, dwarf yaupon holly | 12, 4 | U |
| | Ixora coccinea (and cultivars) | ixora | 2–10 | E |
| | Lantana camara | lantana | 6 | Н |
| | Leucophyllum frutescens | Texas sage | 10 | U |
| | Ligustrum japonicum | Japanese privet | 12 | E |
| | Malpighia coccigera | Singapore holly | 3 | U |
| | Malvaviscus arboreus | Turk's cap | 12 | U |
| | Nageia nagi | broadleaf podocarpus | 15–20 | U |
| n | Osteomeles anthyllidifolia | ʻūlei | 2 | |
| | Pedilanthus tithymaloides | devil's backbone | 5 | U |
| | Pentas lanceolata | pentas | 4 | U |
| | Phormium tenax | New Zealand flax | 6 | Н |
| | Plumbago auriculata | plumbago | 5 | U |
| | Podocarpus macrophyllus | podocarpus | 15 | L |
| | Pseuderanthemum carruthersii | | | |
| | var. atropurpureum | pseuderanthemum | 5 | U |
| | Rhapiolepis indica | Indian hawthorn | 6 | L |
| | Russelia equisetiformis | fountain plant | 6 | L |
| | Sesbania punicea | rattle box, false poinciana | 6 | Н |
| | Severinia buxifolia | box thorn | 6 | U |
| | Strelitzia reginae | bird-of-paradise | 4 | L |
| | Suriana maritima | baycedar | 10 | U |
| | Synadenium grantii | African milk bush | 10 | U |
| | Tetrapanax papyrifer | rice paper plant | 15 | U |
| | Thevetia peruviana | be-still tree, lucky nut | 15 | Н |
| | Triphasia trifolia | lime berry | 12 | U |
| | Viburnum odoratissimum | sweet viburnum | 15 | U |
| | Viburnum suspensum | sandankaw viburnum | 10 | U |
| | Vitex rotundifolia | beach vitex, pohinahina | 4 | U |
| | - | - | | |
| Tı | rees — Zone 1 | | | |
| | Araucaria columnaris | Cook pine | 60 | L |
| | Araucaria heterophylla | Norfolk Island pine | 80 | L |
| | Barringtonia asiatica | hutu | 60 | L |
| | Bucida buceras | geometry tree, black olive | 30 | L |
| | Bursera simarubra | gumbo limbo | 30 | U |
| | Callistemon citrinus | bottlebrush | 20 | U |
| | | | | |

| | Botanical name | Common name | Height (inches) | HP-WRA |
|---|----------------------------|----------------------------------|-----------------|--------|
| p | Calophyllum inophyllum | kamani | 40 | |
| • | Casuarina equisetifolia | Australian pine, common ironwood | 60–70 | Н |
| | Clusia rosea | autograph tree, pitch apple | 20 | E |
| | Coccoloba diversifolia | pigeon plum | 30 | U |
| | Coccoloba uvifera | sea grape | 20 | L |
| | Conocarpus erectus | buttonwood, silver buttonwood | 30 | L |
| | Cordia sebestena | geiger tree, kou haole | 25–30 | L |
| p | Cordia subcordata | kou | 20 | |
| _ | Euphorbia tirucalli | pencil tree | 10-15 | U |
| | Ficus macrophylla | Morton Bay fig | 50 | E |
| | Guaiacum sanctum | lignum vitae | 15 | U |
| | Heritiera littoralis | looking glass tree | 30 | L |
| p | Hibiscus tiliaceus | hau | 30 | |
| | Kigelia africana | sausage tree | 35 | U |
| | Manilkara roxburghiana | coastal red milkwood | 35 | U |
| n | Myoporum sandwicense | naio | 15–20 | |
| | Morinda citrifolia | noni, Indian mulberry | 10 | Н |
| | Myrica cerifera | wax myrtle | 20 | U |
| | Noronhia emarginata | Madagascar olive | 25 | E |
| | Ochrosia elliptica | ochrosia | 25 | U |
| n | Pandanus odoratissimus | pandanus, hala | 15 | |
| | Pandanus tectorius | variegated pandanus | 15 | U |
| | Pandanus utilis (and spp.) | screw pine | 25 | U |
| | Rhizophora mangle | red mangrove | 20-40 | U |
| | Swietenia mahagoni | mahogony | 40 | L |
| | Tamarix aphylla | tamarisk | 30+ | Н |
| | Terminalia catappa | tropical almond | 60 | L |
| p | Thespesia populnea | milo | 30 | U |
| | Tournefortia argentea | beach heliotrope, tahinu | 12–15 | L |
| T | rees — Zone 2 | | | |
| р | Aleurites moluccana | kukui, candlenut | 40 | Н |
| 1 | Allocasuarina verticillata | ironwood (longleaf) | 40 | U |
| | Araucaria bidwillii | bunya-bunya | 60 | U |
| | Bischofia javanica | bischofia | 40 | H |
| | Brachychiton acerifolius | Australian flame tree | 40 | L |
| | Brugmansia x candida | angel's trumpet | 15 | U |
| | Callistemon citrinus | red bottlebrush | 20 | L |
| | Casimiroa edulis | white sapote | 30 | U |
| | Casuarina glauca | grey ironwood | 40 | H |
| | Chrysophyllum cainito | star apple | 30 | U |
| | Chrysophyllum oliviforme | satin leaf | 30 | H |
| | Cinnamomum camphora | camphor tree | 50 | H |
| | Cordyline australis | giant dracaena | 40 | U |
| | Crescentia cujete | calabash tree | 30 | Ĺ |
| | | | - - | _ |

| | Botanical name | Common name | Height (inches) | HP-WRA |
|---|----------------------------------|--------------------------------|-----------------|--------|
| | Dalbergia sissoo | sissoo | 80 | Н |
| | Delonix regia | royal poinciana | 50 | L |
| | Diospyros dignyna | black sapote | 25 | U |
| | Enterolobium cyclocarpum | earpod tree | 80 | L |
| | Erythrina crista-galli | coral tree | 25 | L |
| n | Erythrina sandwicensis | wiliwili | 30 | |
| | Erythrina variegata 'Orientalis' | tiger's claw | 35 | U |
| | Eucalyptus spp. | eucalyptus | variable | L, H |
| | Eugenia brasiliensis | grumichama, Brazilian plum | 15 | U |
| | Ficus benghalensis | Indian banyan | 80 | L |
| | Ficus lyrata | fiddle leaf fig | 35 | L |
| | Ficus microcarpa | Chinese banyan | 50 | Н |
| | Grevillea robusta | silk oak | 60 | E |
| | Hernandia nymphaeifolia | lantern tree | 50 | L |
| | Hibiscus elatus | Cuban bast | 50 | U |
| | Ilex vomitoria | yaupon holly | 20 | U |
| | Jatropha integerrima | rose-flowered jatropha | 15 | U |
| | Ligustrum lucidum | glossy privet | 30 | E |
| | Malpighia glabra | Barbados cherry | 20 | L |
| | Mammea americana | mamay apple | 40 | U |
| | Mangifera indica | mango | 50 | U |
| | Manilkara zapota | sapodilla | 30 | U |
| | Melaleuca quinquenervia | paper bark, cajeput tree, punk | 25–30 | Н |
| | Millettia pinnata | pongamia | 50 | L |
| | Nolina recurvata | pony tail | 30 | U |
| | Olea europaea 'Cuspidata' | olive | 30 | E |
| | Parkinsonia aculeata | Jerusalem thorn | 30 | Н |
| | Pithecellobium dulce | ʻopiuma | 50 | U |
| | Plumeria spp. | plumeria, frangipani | 20 | L |
| | Podocarpus gracilior | African fern pine | 20 | L |
| | Pouteria sapota | mamey sapote | 30 | U |
| | Prosopis pallida | kiawe | 50 | U |
| | Psidium cattleianum | strawberry guava | 20 | Н |
| | Psidium guajava | guava | 25 | Н |
| | Schefflera actinohylla | octopus tree | 30 | U |
| | Schinus molle | California pepper | 30 | U |
| | Schotia brachypetala | schotia | 30 | L |
| | Senna surattensis | kolomona | 20 | E |
| | Sophora tomentosa | Silver bush | 15 | L |
| | Spathodea campanulata | African tulip tree | 50 | Н |
| | Strelitzia nicolai | white bird-of-paradise tree | 18 | L |
| | Syzygium cumini | jambolan plum | 40 | U |
| | Syzygium jambos | rose apple | 30 | U |
| | Tabebuia aurea | golden trumpet, yellow tecoma | 30 | U |
| | Tamarindus indica | tamarind | 30 | L |
| | Thevetia peruviana | be-still tree, yellow oleander | 25 | Н |
| | Tipuana tipu | tipu, rosewood | 40 | L |

| | Botanical name | Common name | Height (inches) | HP-WRA | |
|----|---------------------------------------|------------------------------------|-----------------|--------|--|
| Vi | Vines — Zone 1 | | | | |
| | Cryptostegia madagascariensis | rubber vine, purple allamanda | | Н | |
| | Epipremnum pinnatum 'Aureum' | pothos | | U | |
| | Hylocereus undatus | night-blooming cereus | | U | |
| n | Ipomoea pes-capre subsp. brasiliensis | beach morning-glory, pōhuehue | | | |
| | Tecoma capensis | Cape honeysuckle | | U | |
| Vi | ines — Zone 2 | | | | |
| | Allamanda spp. | allamanda | | Н | |
| | Bougainvillea spp. | bougainvillea | | L | |
| | Congea tomentosa | wooly congea | | | |
| | Ficus pumila | creeping fig | | L | |
| | Hedera canariensis | Algerian ivy | | U | |
| | Jasminum laurifolium nitidum | star jasmine | | U | |
| | Jasminum multiflorum | downy jasmine | | L | |
| | Mandevilla splendens | pink allamanda | | U | |
| | Petrea volubilis | queen's wreath | | L | |
| | Philodendron spp. | philodendron | | L | |
| | Pseudogynoxys chenopodioides | Mexican flame vine | | U | |
| | Solandra maxima | chalice vine | | U | |
| | Trachelospermum jasminoides | Confederate jasmine | | U | |
| Tu | ırf — Zone 1 | | | | |
| | Cynodon dactylon | bermudagrass | | U | |
| | Paspalum distichum | seashore paspalum | | Н | |
| | Stenotaphrum secundatum | St. Augustinegrass | | Н | |
| Tu | ırf — Zone 2 | | | | |
| | Zoysia japonica | japanesegrass | | L | |
| | Zoysia matrella | manilagrass | | U | |
| | Zoysia matrella var. pacifica | templegrass, mascarenegrass, korea | ingrass | L | |
| | * " | = = | - | | |