

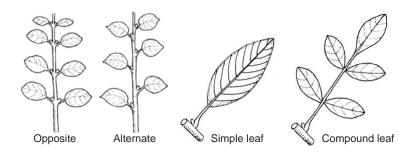
Terrestrial Noxious Weeds of Florida FIELD GUIDE



Noxious Weed Species

SCIENTIFIC NAME	COMMON NAME	CATEGORY
Abrus precatorius	rosary pea	Vines
Alternanthera sessilis	sessile joyweed	Herbs
Ardisia crenata	coral ardisia	Woody
Ardisia elliptica	shoebutton ardisia	Woody
Casuarina spp.	Australian pine	Woody
Colubrina asiatica	latherleaf	Woody
Commelina benghalensis	tropical spiderwort	Herbs
Cupaniopsis anacardioides	carrotwood	Woody
Cuscuta species	dodder	Vines
Dioscorea alata	white yam	Vines
Dioscorea bulbifera	air potato	Vines
Dolichandra unguis-cati	cat's claw vine	Vines
Imperata cylindrica	cogongrass	Grasses
Ipomoea triloba	little bell morning glory	Vines
Leucaena leucocephala	white lead tree	Woody
Ligustrum sinense	Chinese privet	Woody
Lonicera japonica	Japanese honeysuckle	Vines
Lygodium japonicum	Japanese climbing fern	Ferns
Lygodium microphyllum	small-leaved climbing fern	Ferns
Melaleuca quinquenervia	melaleuca	Woody
Mikania micrantha	climbing hempweed	Vines
Mimosa pigra	catclaw mimosa	Woody
Neyraudia reynaudiana	Burma reed	Grasses
Paederia spp.	skunkvine and sewervine	Vines
Pennisetum pedicellatum	Kyasuma grass	Grasses
Pennisetum polystachyon	missiongrass, thin napiergrass	Grasses
Pueraria montana	kudzu	Vines
Rhodomyrtus tomentosa	downy myrtle	Woody
Rottboellia cochinchinensis	itchgrass	Grasses
Saccharum spontaneum	wild sugarcane	Grasses
Sapium sebiferum	Chinese tallow tree	Woody
Scaevola taccada	beach naupaka	Woody
Schinus terebinthifolius	Brazilian pepper	Woody
Setaria pumila	yellow bristlegrass	Grasses
Solanum tampicense	wetland nightshade	Woody
Solanum torvum	turkeyberry	Woody
Solanum viarum	tropical soda apple	Woody
Tridax procumbens	coat buttons	Herbs

- Decide which category the plant in question best fits: fern, grass, herbaceous, vine or woody plant.
- Note how the leaves are arranged along the twig: opposite, alternate or maybe no leaves.
- Observe the leaf structure: simple or compound.
- Then look through the species descriptions in the category for your plant.



This guide includes plant species regulated as noxious weeds in Florida and known to grow here. Although the descriptions refer mainly to the adult plant, some information about seedlings is also provided. You can confirm a species name by sending a sample to DPI in Gainesville.

Note: This guide does NOT include aquatic weeds.

CATEGORY	LEAF ARRANGEMENT	LEAF STRUCTURE	COMMON NAME	SPECIES
FERNS			Japanese climbing fern	Lygodium japonicum
non-flowering plants, usually with finely divided leaves			small-leaved climbing fern	Lygodium microphyllum
			Burma reed	Neyraudia reynaudiana
			cogongrass	Imperata cylindrica
GRASSES			itchgrass	Rottboellia cochinchinensis
herbaceous plants with specialized leaves and flowers			Kyasuma grass	Pennisetum pedicellatum
			missiongrass, thin napiergrass	Pennisetum polystachyon
			wild sugarcane	Saccharum spontaneum
			yellow bristlegrass	Setaria pumila
HERBS	alternate	simple	sessile joyweed	Alternanthera sessilis
tender, not woody plants	alternate	simple	tropical spiderwort	Commelina benghalensis
	opposite	simple	coat buttons	Tridax procumbens

CATEGORY	LEAF ARRANGEMENT	LEAF STRUCTURE	COMMON NAME	SPECIES
	alternate	compound; 3 leaflets	kudzu	Pueraria montana
	alternate	compound; many leaflets	rosary pea	Abrus precatorius
	alternate	simple	little bell morning glory	Ipomoea triloba
VINES climbing with tendrils or twining stems or scrambling over other	alternate	simple, heart shaped	air potato	Dioscorea bulbifera
	none; orange stems		dodder	Cuscuta spp.
	opposite	compound; 2 leaflets	cat's claw vine	Dolichandra unguis-cati
plants	opposite	simple	climbing hempweed	Mikania micrantha
	opposite	simple	Japanese honeysuckle	Lonicera japonica
	opposite	simple	skunkvine and/or sewervine	Paederia spp.
	opposite	simple, heart shaped	winged yam	Dioscorea alata
	alternate	compound; 3-7 leaflets	Brazilian pepper	Schinus terebinthifolius
	alternate	compound; usually 5-7 leaflets	carrotwood	Cupaniopsis anacardioides
	alternate	compound; many leaflets	catclaw mimosa	Mimosa pigra
	alternate	compound; many leaflets	white lead tree	Leucaena leucocephala
	alternate	simple	beach naupaka	Scaevola taccada
	alternate	simple	Chinese tallow tree	Sapium sebiferum
WOODY	alternate	simple	coral ardisia	Ardisia crenata
trees or shrubs	alternate	simple	latherleaf	Colubrina asiatica
	alternate	simple	melaleuca	Melaleuca quinquenervia
	alternate	simple	shoebutton ardisia	Ardisia elliptica
	alternate	simple	tropical soda apple	Solanum viarum
	alternate	simple	turkeyberry	Solanum torvum
	alternate	simple	wetland nightshade	Solanum tampicense
	needle-like		Australian pine	Casuarina spp.
	opposite	simple	Chinese privet	Ligustrum sinense
	opposite	simple	downy rose- myrtle	Rhodomyrtus tomentosa

Lygodium japonicum - Japanese climbing fern

This twining fern grows in dense clumps from thin, profusely branching rhizomes and from abundant, light weight, windborne spores. Japanese climbing fern has escaped cultivation after being originally introduced as an ornamental and is known to contaminate pine straw harvested from infested pine plantations. It is now classified as a noxious weed by Alabama as well as Florida.

FLEPPC-Cat. I invasive

usually found in disturbed roadsides, ditches and pine plantations, but increasingly in natural areas such as pine flatwoods and wetlands

SROWTH FORM

vine-like, twining fern with matted, above or below ground rhizome; above ground parts freezing in winter, but resprouting in spring

🛊 LEAVES

fronds (the leaves of ferns) grow to 90 feet long with a slender, winding and twining, tan rachis; sterile pinnae (major segments of the leaf) triangular in shape, bipinnately compound; pale hairs on pinnae and rachis

✤ FLOWERS

no flowers; fertile pinnae on the same fronds as sterile pinnae; slender, fingerlike lobes of the pinnules (divisions of the pinnae)

🐌 FRUIT

no fruit; spores under curled lobes of pinnules

SEEDLINGS

sterile pinnae, similar to adult

IDENTIFICATION

dense stands of tangled, vine-like, climbing ferns with bipinnate fronds

hairy rachis and pinnae

pinnules farthest from rachis are elongated

lacey, dissected fronds distinguish it from old-world climbing fern (*Lygodium microphyllum*)



DISTRIBUTION

This species is native from eastern and southeastern Asia through Indonesia to northern Australia and is occasionally weedy in the tropical parts of this range. It is apparently absent from South America and Africa. In the United States, it has naturalized throughout the southeastern coastal states from North Carolina to Texas and in Arkansas. It is also reported from Hawaii and Puerto Rico. This climbing fern is rapidly expanding its range in Florida. While it is still most common in the panhandle and the northern peninsula, it has been collected throughout the state.

Lygodium japonicum - Japanese climbing fern



James H. Miller & Ted Bodner, Southern Weed Science Society









Lygodium microphyllum – small-leaved climbing fern

This twining fern grows in dense clumps from thin, profusely branching rhizomes and from abundant, light weight, windborne spores. This species has escaped from cultivation and covers native vegetation, including trees, and can serve as a ladder for fire to climb into the forest canopy.

FEDERAL NOXIOUS WEED

FLEPPC-Cat. I invasive

S HABITAT

usually found wet areas, such as flatwoods, moist hammocks, swamps and floodplain forests, as well as abandoned fields, drainage ditches and other disturbed sites

GROWTH FORM

twining, vine-like fern growing from rhizome; slender, winding, wiry rachis with petiolelike stalks that attach to each pinnule (leaflet), remaining as a stub when the pinnule falls off

🛊 LEAVES

fronds (the leaves of ferns) grow to 100 feet long; sterile pinnae (major segments of the leaf) roughly triangular or somewhat heart-shaped, once compound and not lobed

✤ FLOWERS

no flowers; fertile pinnae on the same fronds as sterile pinnae; fringe along the leaflet margins created by rolled leaf tissue that covers the sporangia

🕼 FRUIT

no fruit; windborne spores under rolled edges of pinnae, viable up to four years

SEEDLINGS

sterile pinnae, similar to adultlobes; petioles may be purple-tinged or green

IDENTIFICATION

dense stands of tangled, vine-like, climbing ferns with pinnate fronds

nearly glabrous rachis and pinnae

rachis with short petiolelike stalks or stubs remaining after pinnules fall

pinnae somewhat heart-shaped, once compound and not lobed, distinguish it from lacey, dissected fronds of Japanese climbing fern (*Lygodium japonicum*)



DISTRIBUTION

Old World climbing fern is native through much of the tropics, including tropical Africa, Asia, Australia and Pacific islands. In Florida, this fern is found throughout most of the peninsula, and a separate population has been documented in Duval County.

Lygodium microphyllum – small-leaved climbing fern



Amy Ferriter, State of Idaho



habitat



Poaceae (Gramineae) - Grass Family

Neyraudia reynaudiana - Burma reed

In 1915, Burma reed was introduced to the Chapman Field USDA Subtropical Horticulture Research Station as a potential erosion control and ornamental. By 1993, it had invaded nearly 75% of pine rocklands in Miami-Dade County outside of Everglades National Park. This grass forms large stands like Phragmites berlandieri (common reed); however, Neyraudia lacks the ring of hairs around the stem just below the inflorescence that helps identify Phragmites.

FLEPPC-Cat. I invasive

HABITAT

disturbed areas, swamps, forest edges and pine flatwoods; drought and flood tolerant

🜲 GROWTH FORM

robust, perennial grass up to 15 feet tall, growing in dense clump spread by fragmented rhizomes; culms (stems), often branched, approximately ½ inch wide

🛊 LEAVES

leaf blade, up to 40 inches long and 1 inch wide above, glabrous (hairless) on the undersides; with auricules (small earlike projections) at its base; ligule (found where the blade meets the sheath) a cartilaginous ridge with a fringe of hairs about $^{1/_{10}}$ inch long

🔆 FLOWERS

plumelike, glistening, silky inflorescence up to 3 feet long, erect to nodding **FRUIT**

spikelets break apart to release the tiny seeds, 1/20 inch long

SEEDLINGS

N/A

IDENTIFICATION

dense clumps of tall grass, spreading by rhizomes

shimmery, silky flower plumes to 3 feet long, with hundreds of tiny flowers

ligule composed of a cartilaginous ridge with a fringe of very short hairs



DISTRIBUTION

This species is native to warm temperate and tropical Asia from northeastern India and Nepal eastward to Taiwan and southward to the Indonesian island of Java. In its native range, Burma reed is found in a variety of habitats at altitudes from sea level to 6,500 feet. It is occasionally cultivated and has now become naturalized in the Bahamas, Mexico and Florida. *Neyraudia reynaudiana* has been vouchered with herbarium specimens from a few South Florida counties.





leaf blades

ligule

Gramineae (Poaceae) - Grass Family

Imperata cylindrica - cogongrass

This is a fast-growing, perennial grass averaging 3 to 4 feet in height, but occasionally reaching 6 feet. Cogongrass is recognized as one of the most aggressive weeds in Florida, capable of rapidly choking out and displacing native plant species as well as infesting agricultural lands. The rhizomes (underground stems) it produces forms a dense mat and makes the species difficult to control. Removal of the aboveground portions of the plant is easily accomplished, but rapid regrowth occurs if the rhizomes are not killed or removed.

FEDERAL NOXIOUS WEED

FLEPPC-Cat. II invasive

HABITAT

fire-adapted natural areas such as pinelands, disturbed areas and agricultural lands

🜲 GROWTH FORM

rarely seen as a single plant, as it spreads by creeping, horizontal underground stems, forming dense patches over large areas

LEAVES

arise directly from underground stems; overlapping leaf sheaths give the base a rounded appearance; yellowish green (turning red-brown in cool weather), prominent white, off-center midrib; blades 1/2 to 1 inch across, with hairy bases and finely serrated margins

✤ FLOWERS

flowers are borne in dense, fluffy, silvery white panicles; persistent, purplish-black stigmas among the white hairs

🕼 FRUIT

fluffy, plumose seedheads 2 to 8 inches in length; up to 3,000 seeds

SEEDLINGS

leaf blade glabrous, except for tuft of hair at base

IDENTIFICATION

grass with white, off-center midrib

fluffy, plumose seedheads

below ground scaly rhizome with sharp pointed growing tip



DISTRIBUTION

Cogongrass is native to Australia, Micronesia, East and Southeast Asia, India and eastern and southern Africa, but it is now naturalized pantropically. In the United States, it occurs in southern states from Texas eastward to South Carolina and a few other scattered states. In Florida, it has been documented from the western panhandle to the Keys. It occurs on both moist and dry sites that are disturbed, but not frequently tilled, such as roadsides, utility corridors, industrial sites, pastures, pine plantations and orchards.



Chris Evans

James H. Miller

infestation

Gramineae (Poaceae) - Grass Family

Rottboellia cochinchinensis - itchgrass

Itchgrass has become a major weed of upland rice, sugarcane, corn, sorghum, soybean and several vegetable crops throughout the tropics. It competes for soil nutrients, water and light, resulting in reduced yields, and also hosts insect pests and diseases that affect grain crops. Itchgrass plants may begin producing seed six to seven weeks after they emerge, and a single plant can yield between 2,000 and 16,000 seeds.

FEDERAL NOXIOUS WEED

HABITAT

disturbed and agricultural areas such as hammock edges, clearings, pastures and roadsides in Florida; tropical and subtropical agricultural areas worldwide

🜲 GROWTH FORM

erect, annual grass to 10 feet tall, often with stilt roots at the base of the stem, growing in large clumps from side shoots

LEAVES

leaf sheath and blade have stiff hairs with a swelling (tubercle) at the base; hairs break off to penetrate and irritate skin; blades, 6 to 20 inches long, 1 inch wide, with white midribs and scabrous (like sandpaper) margins.

✤ FLOWERS

cylindrical, unbranched, segmented inflorescence similar to Fakahatchee grass (*Tripsacum dactyloides*)

🚳 FRUIT

cylindrical seedhead breaks into segments

SEEDLINGS

single first leaf sheath and blade with long, stiff hairs

IDENTIFICATION

tall, erect grass with inch-wide leaf blades and white midrib

irritating hairs with bulbous base, especially dense on the leaf sheaths and base of leaf blade

cylindrical, unbranched, segmented inflorescence that breaks apart when mature



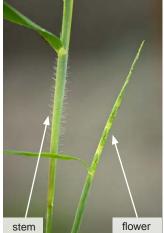
DISTRIBUTION

Itchgrass is native to tropical Africa, tropical Asia and northern Australia. It has been introduced throughout the Caribbean, tropical America and the southeastern and central United States. It is most commonly found on sunny, disturbed sites with high rainfall or irrigation in subtropical and tropical climates. This species has been reported from scattered locations throughout Florida and has been vouchered with herbarium specimens from Escambia County in the north to Monroe County (Florida Keys) in the south.

Rottboellia cochinchinensis - itchgrass



John Bradford













Pennisetum pedicellatum – kyasuma grass

Pennisetum pedicellatum is a tropical grass with a massive root system. Its common names include kyasuwa grass, annual mission grass, Deenanth grass, feather pennisetum and hairy fountain grass, as well as kyasuma grass. Although its Latin name is now considered to be *Cenchrus pedicellatus*, we use the name found on the Florida state noxious weed list.

FEDERAL NOXIOUS WEED

HABITAT

dry, disturbed areas; reported as a pest plant in citrus groves; not common in Florida

GROWTH FORM

annual or perennial, erect bunch or tussock grass, sometimes bending and growing roots at nodes, to 6 feet tall

🛊 LEAVES

typical grass leaves, to 10 inches long, with scattered, stiff hairs at the base of the leaf blade

FLOWERS

foxtail or bottlebrush shaped panicles, 2-4 inches long, with pale pink to purple tinged bristles

🕼 FRUIT

grain (cayopsis) remaining enclosed in floret at maturity

SEEDLINGS

typical grass seedling with parallel veins

IDENTIFICATION

clumping, more or less erect grass with no obvious stolon, to 6 feet tall, but usually shorter

inflorescence erect, 2-4 inches long, pale pink to purple

spikelets bundled with 40-90 inner bristles and 10-20 outer bristles



DISTRIBUTION

Kyasuma grass is native to tropical Africa and India. The weedy species is now naturalized in tropical, subtropical and warm temperate regions in Australia, Hawaii, New Caledonia and Brazil as well as Florida. It has been vouchered with herbarium specimens from Manatee and Polk counties in Florida.

Pennisetum pedicellatum – kyasuma grass



Forest and Kim Starr









Gramineae (Poaceae) - Grass Family

Pennisetum polystachion - missiongrass

Missiongrass was introduced to many areas of Florida as an ornamental and pasture grass. This species has a negative impact on the productivity of agricultural fields and pastures and can out-compete and displace native grasses. It also alters fire regimes, resulting in extremely hot fires that can kill native plant species. The accepted name is now *Cenchrus polystachios*, and that name was included in 2017 on the federal noxious weed list, although this has yet to be changed on the Florida list.

FEDERAL NOXIOUS WEED

FLEPPC-Cat. II invasive

HABITAT

dry, disturbed sites, including roadsides, pastures, agricultural fields and levees; in Australia, found in undisturbed grasslands and open woodlands

GROWTH FORM

variable in appearance, but generally upright and growing in clumps

LEAVES

leaf sheaths are hairless, but have ciliate margins; leaf blades, $1\!/_6$ to $^3\!/_4$ inch wide and up to 22 inches long

✤ FLOWERS

inflorescence with one to several spike-like panicles; flower spikelets sessile (stalkless) and surrounded by bristles

🕼 FRUIT

each spikelet surrounded by plumose (feathery) bristles, with one or several bristles noticeably longer than the others; mature seeds airborne by bristles

SEEDLINGS

single first leaf, like corn plants

IDENTIFICATION

clumping, perennial grass with a hard, knotty base and erect, branching stems to 6 feet tall

erect to slightly drooping panicles to 14 inches long with short, dense branches

inflorescence appearing yellow, light brown or purplish brown



DISTRIBUTION

Native to tropical Africa, missiongrass is now naturalized in tropical, subtropical and warm temperate regions worldwide. It is particularly common on cleared forest lands in Southeast Asia and the Pacific Islands. In the United States, it has been found only in Florida and Hawaii. Missiongrass has been vouchered with herbarium specimens from only a few isolated occurrences, except in Collier County, where missiongrass seems to be locally established in the Immokalee area.

Pennisetum polystachion - missiongrass



fruit

ligule

Saccharum spontaneum – wild sugarcane

Saccharum spontaneum is a highly variable, invasive weed. It hybridizes easily with other species and is used in sugarcane breeding research which puts it at risk of escaping and spreading. In Florida, it is believed to have escaped from research facilities during hurricanes. This species is a weed of cotton, pearl millet, sorghum, rice, tea and coffee.

FEDERAL NOXIOUS WEED

S HABITAT

range of environments from wet to dry habitats, low to high elevations, fertile to nutrient poor soils and tropical to temperate climates; agricultural lands, roadsides, disturbed areas and banks of rivers, lakes and ponds

🜲 GROWTH FORM

variable grass, some short bunchgrasses and others with 12-18 feet tall stems; culms less than 1 inch in diameter; very similar to cultivated sugarcane, but culms thinner

🛊 LEAVES

to 6 feet long, about $\frac{1}{2}$ inch wide, usually glabrous (without hairs); white-ish midrib; minute teeth on leaf edges

✤ FLOWERS

inflorescence an open, multi-branched panicle to 1½ feet long; panicle axis hairy; spikelets composed of two flowers, without awns

🕼 FRUIT

dry fruit typical of grasses, wind dispersal aided by a callus hairs forming a "parachute"

SEEDLINGS

Species Distribution Map

typical grass seedling

IDENTIFICATION

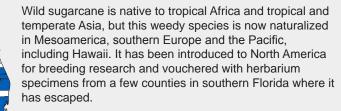
grass with large, plumose inflorescence

terminal, erect, branched panicle inflorescence with unawned spikelets

solitary culms or a few growing in a small clump from elongated rhizomes

leaf blades hairless, except near ligule





Saccharum spontaneum - wild sugarcane



Singapore National Parks

leaf with midrib

Setaria pumila - yellow bristlegrass

Setaria species are characterized by bristles below each flower spikelet, and this one has 4-12 bristles for each spikelet, giving its inflorescences a foxtail appearance and suggesting its common name, although it is also known as yellow foxtail, cattail grass and pigeon grass. The species name for this plant on the Florida noxious weed list is Setaria pallidefusca, but the 2017 federal noxious weed list includes the currently accepted name. It is an early invader of disturbed and agricultural areas.

FEDERAL NOXIOUS WEED

roadsides, ditch banks, fields, pastures, railroad beds and other disturbed sites

🜲 GROWTH FORM

annual grass, growing in tufts from fibrous roots

LEAVES

leaf sheaths are hairless, but have ciliate ligules and a few hairs at the collar; leaf blades up to 12 inches long and $\frac{1}{2}$ inch wide

FLOWERS

yellowish, densely packed, giving the panicles a cylindrical, spike-like appearance

🕼 FRUIT

each spikelet surrounded by plumose (feathery) bristles, with one or several bristles noticeably longer than the others; mature seeds airborne by bristles

SEEDLINGS

single first leaf, like corn plants, usually roughly parallel with ground surface

IDENTIFICATION

clumping, annual grass with no obvious rhizome, to 4 feet tall, but usually shorter

inflorescence erect, yellowish,1-4-inch long, cylindrical panicle

leaf blades hairless, except near ligule



DISTRIBUTION

Yellow bristlegrass is native to tropical and temperate Africa, Asia and Europe. The weedy species is now naturalized in tropical, subtropical and warm temperate regions worldwide. It has been introduced throughout most of North America and vouchered with herbarium specimens from counties scattered throughout Florida from Escambia to Miami-Dade.

Setaria pumila - yellow bristlegrass









Plantnet

Alternanthera sessilis - sessile joyweed

This is a perennial herb with stems that are sometimes erect, but usually creep along the soil and produce roots at the nodes. This plant is classified as a terrestrial weed by the state of Florida, but it can grow in water and is found in the aquarium trade.

FEDERAL NOXIOUS WEED

HABITAT

found in a variety of wet sites and disturbed areas

GROWTH FORM

perennial, herbaceous weed with creeping or erect stems sometimes lined with rows of whitish hairs

LEAVES

simple, opposite, hairless, with no teeth along the margin, narrowly oval to oblong, blunt or pointed at the tip, 2 to 4 inches long and less than an inch wide

✤ FLOWERS

tiny, white, with a paper-like texture, and borne in dense, rounded, sessile (without a stalk) clusters in the leaf axils, about $1/_2$ inch long and wide

🕼 FRUIT

dry fruits, called "utricles," that remain attached to the flower until the mature fruit is exerted beyond their tips

SEEDLINGS

seeds produce new plants with opposite leaves similar to mature plants, but rooting at the nodes allows vegetative reproduction.

IDENTIFICATION

herbaceous weed usually with creeping stems, rooting at the nodes; sometimes weakly erect stem; hairs at nodes and sometimes in lines along the stem

simple, hairless, opposite leaves, 2 to 4 times longer than wide

white, papery flowers in dense clusters attached directly to the leaf axil; very similar to the aquatic weed, *A. philoxeroides*, which has a stalked flower

dry fruits peek out above the persistent flower parts when mature

DISTRIBUTION



This weed is found in wet disturbed areas as well as rice and sugarcane fields in tropical and subtropical regions. It is possibly native to southern Asia, but is now found in tropical and subtropical regions around the world and has been introduced throughout the southeastern United States from South Carolina to Texas. This species has been reported in Florida counties scattered from the western panhandle through the central peninsula. It grows in wet and drier areas, including roadsides, ditches, bogs, swamps, pond banks, disturbed areas, pastures and other cultivated areas.



leaves and stem





J.M.Garg





Jim Space



Jim Space

Commelina benghalensis - tropical spiderwort

This sprawling, herbaceous plant is a serious pest of peanuts, soybeans and cotton because it is resistant to most commercial herbicides. Manual eradication is difficult because stems produce roots at the nodes, and detached pieces can grow into new plants. Abundant seeds from both the above-ground and below-ground flowers add to the difficulty of control.

FEDERAL NOXIOUS WEED

fields, nursery beds and containers, lawns and other disturbed areas

🜲 GROWTH FORM

annual (perennial in frost-free areas) herbaceous plant with succulent, sprawling, hairy stems to 15 inches long

E LEAVES

alternate, with ovate blades about twice as long as wide, 1 to 4 inches long; petiole base sheaths around the stem, sheath margin with reddish brown (or pale tan), eyelash-like hairs

FLOWERS

above ground: two conspicuous blue or purple petals and a third smaller, inconspicuous, white or pale blue petal; below ground: closed, white, self-pollinating (cleistogamous) flowers on runners

🐌 FRUIT

pear-shaped capsule, splits at maturity; above-ground flowers produce 1 large, 4 small seeds; below-ground flowers produce 1 large, 2 small seeds

SEEDLINGS

first leaf: erect, ovate to ovate-elliptic, glabrous

IDENTIFICATION

herbaceous weed with succulent, sprawling, hairy stems

two conspicuous blue or purple petals and a third smaller, inconspicuous, white or pale blue petal; similar species have flowers with all blue or all white petals

below ground closed, white, self-pollinating (cleistogamous) flowers growing on runners



DISTRIBUTION

Tropical spiderwort is native in the Old World tropics and subtropics, but has spread to the United States, the West Indies and South America. In this country, it has been reported in Alabama, California, Florida, Georgia, Louisiana, Mississippi and North Carolina. This weed grows in cultivated fields, nursery beds and containers, lawns and other disturbed areas in scattered counties from the panhandle nearly to Lake Okeechobee in the central part of the state.

Commelina benghalensis - tropical spiderwort



Jamie Kairalla









Tridax procumbens - coat buttons

Coat buttons is common and widespread and is a serious weed of various crops in South Asia, several Pacific islands and tropical Africa. Although it is listed as a noxious weed by the USDA and the State of Florida, it is not yet a serious weed in North America. To help avoid future infestations, be on the lookout for this weedy plant.

FEDERAL NOXIOUS WEED

> HABITAT

vacant lots and roadsides, as well as in lawns, nursery containers and sidewalk cracks

GROWTH FORM

perennial herbs; stems procumbent (growing along the ground without rooting) to ascending

🛊 LEAVES

opposite; with or without petioles; arrow-shaped, lanceolate, or ovate, often lobed or coarsely toothed; hairy on both upper and lower leaf blades

FLOWERS

heads usually borne singly, 3-8 non-overlapping, creamy yellow (sometimes white or purplish) three-lobed ray florets, 40-80 yellow disc florets

🕼 FRUIT

3-, 4-, or 5-angled, dry, single-seeded achene with a feathery crown (pappus)

SEEDLINGS

first leaves opposite, with a fringe of hairs along the margins

IDENTIFICATION

herbaceous plant with opposite leaves, growing along the ground without rooting at the nodes

daisylike, with widely spaced, white or cream ray florets and yellow disc florets

easily confused with *Bidens alba*, Spanish needles, but that plant has upright stems, compound leaves (3-5 leaflets) and much larger, more conspicuous flower heads

pubescent leaves



DISTRIBUTION

The plant is native to tropical America, but is widely naturalized in tropical and subtropical areas around the world. In the United States, it is established only in Florida, Hawaii and Puerto Rico. It is common in dry, sunny, disturbed areas from Volusia County to the Keys, and in Leon County.

Tridax procumbens - coat buttons



Sheldon Navie









Fabaceae (Leguminosae) - Pea Family

Pueraria montana var. lobata - kudzu

In East Asia, kudzu has a long history of use for food, medicine, fiber and forage. It was introduced from Japan as an ornamental and promoted in the southeastern United States as an inexpensive livestock forage and means of erosion control. By the 1950s, kudzu's aggressive, weedy tendencies were becoming more widely known, and it is now listed as a noxious or restricted plant in 13 states.

FLEPPC-Cat. I invasive

full sun, forming dense masses of vegetation along roadsides, watercourses and hammock edges, flatwoods, gullies, spoil areas and other weedy sites

🜲 GROWTH FORM

fast-growing, climbing and trailing perennial vine with stems to 100 feet long and an extensive root system, producing massive tubers weighing up to 400 pounds

🛊 LEAVES

alternate, trifoliate (with three leaflets) on long petioles; lateral leaflets are usually two-lobed and the terminal leaflet three-lobed, but leaflets may be unlobed; upper and lower surfaces of the leaflets covered with soft, golden hairs

✤ FLOWERS

pink to reddish-purple, typical pea flowers, 0.5 inch across, in clusters (racemes) in the upper leaf axils; sweet fragrance like grape candy or jelly

🐌 FRUIT

flat legumes, 3 to 4 inches long, brown with golden hairs; three to 10 reddish-brown seeds, with a white scar left from attachment to pod

SEEDLINGS

young stems vine-like with long, fine hairs; first leaflets usually unlobed

IDENTIFICATION

vine with rampant growth, massive stature, overtopping trees or covering roadsides

large tri-foliate leaves with lobed leaflets covered in golden hairs

grape-scented flower spikes



DISTRIBUTION

Kudzu is native to eastern and southeastern Asia and the western South Pacific islands. It has become naturalized in central Asia, eastern Europe, southern Africa, much of the eastern and central United States and parts of the West Indies and Central America. This species has escaped from cultivation and occurs in disturbed habitats throughout the state. Herbarium specimens document kudzu scattered from Escambia County in the panhandle to Miami-Dade County.

Pueraria montana var. lobata - kudzu













Peggy Greb USDA/ARS

Abrus precatorius - rosary pea

This woody vine has no tendrils or other climbing structures, but grows by twining over native shrubs and trees, disturbing natural areas. The deep tap root of this perennial aids in resprouting after fire or attempts at eradication.

FLEPPC-Cat. I invasive

S HABITAT

invades natural areas, including both pinelands and hammocks, and is established in disturbed areas

🜲 GROWTH FORM

woody, perennial, twining vine with no tendrils

🖢 LEAVES

alternate; even-pinnately compound leaves have eight to 20 pairs of oblong leaflets, less than 1 inch long

✤ FLOWERS

stalks of pea-like pale purple to lavender or rarely white flowers

🚯 FRUIT

pubescent legume with a sharp beak at the tip, containing four to eight poisonous, red seeds with a black spot

SEEDLINGS

first true leaves are pinnate compound with tiny oblong leaflets

IDENTIFICATION

scrambling, woody vine with no tendrils or other climbing structures

even-pinnately compound leaves have eight to 20 pairs of oblong leaflets less than 1 inch long

a pubescent bean pod

bright red seeds with a black spot



DISTRIBUTION

This species is possibly native to India, but certainly tropical Asia, and is now found in tropical and subtropical regions around the world. In the United States, *Abrus precatorius* is found in Hawaii and Florida. In Florida, this species is found growing from central peninsula counties southward to Miami-Dade and Collier counties.

Abrus precatorius - rosary pea



seedling

growth form

Ipomoea triloba - littlebell

Littlebell is a vine with a twining or creeping habit. It is not a high climber but is more often seen scrambling through grasses and over low shrubs. Stems rarely exceed 10 feet. When cut, the stems and the petioles (leaf stalks) exude a small amount of milky sap.

S HABITAT

disturbed sites such residential landscapes, nurseries, abandoned homesites, agricultural fields, orchards, old pastures and highway and utility corridors

GROWTH FORM

twining or creeping vine, most often described as an annual; but in parts of Australia, a perennial, with a woody, underground tuber

🛊 LEAVES

alternate; variable in size (ranging from $\frac{3}{4}$ to 3 $\frac{1}{4}$ inches long) and in outline (heart-shaped, three-lobed or five-lobed)

✤ FLOWERS

borne in the leaf axils; sometimes solitary but more often in small clusters; pink to pale purple tubular flowers, ½ to 1 inch long with five short lobes, each ending in a short, abrupt point

🐌 FRUIT

small (about $\frac{1}{4}$ inch wide), globose capsules with a persistent style; containing two to four dark brown seeds

SEEDLINGS

first leaves deeply dissected with two long, pointed lobes

IDENTIFICATION

vine with low, scrambling habit

milky sap from cut or broken stems

flowers less than an inch long and colored pink or purple with white anthers



DISTRIBUTION

This species is native to the West Indies, Mexico, Belize and Trinidad, but it is now widely naturalized throughout the tropics. The first record of littlebell in Florida is from Monroe County in 1891. By the 1980s, it was recognized as a serious weed of citrus groves, especially in Hendry County. Littlebell has now been documented from many Florida counties, including the entire southern peninsula, parts of the central and northern peninsula, and the central panhandle.

Ipomoea triloba - littlebell





Dioscorea bulbifera - air potato

Air potato has separate male (staminate) and female (carpellate or fruit-bearing) flowers borne on different plants, and only carpellate plants have been observed in Florida. Plants reproduce asexually by means of bulbils (aerial tubers). One to four bulbils are produced at each leaf axil, and a single plant can produce 200 bulbils in a growing season. Bulbils spread by gravity, water currents, heavy machinery, and movement of contaminated brush and soil.

FLEPPC-Cat. I invasive

HABITAT

disturbed sites and natural areas, including hammocks and pinelands, throughout Florida

GROWTH FORM

deciduous, counter-clockwise twining, herbaceous vine, growing to 65 feet or more, sometimes with an underground tuber

🛊 LEAVES

alternate; heart-shaped, with rounded basal lobes, long tips; conspicuous, arching, longitudinal veins on leaf blade with secondary veins giving a quilted appearance

✤ FLOWERS

not common in Florida; female in spikes of up to 50 inconspicuous flowers with whitish-green petals

🚯 FRUIT

not seen in Florida

SEEDLINGS

new plants develop from bulbils growing at each leaf axil; bulbils are either dark brown with a warty texture or light tan to gray and smooth

IDENTIFICATION

vigorous vine with counter-clockwise twining habit, rounded stems, alternate leaves

abundant globose aerial tubers

heart-shaped leaves with elongated tips and both arching longitudinal veins and puckering secondary veins

avoid confusion with winged yam which has opposite leaves, a winged, squared stem and long, rather than rounded, bulbils



DISTRIBUTION

Native to tropical Africa, Asia, the Pacific Islands and northern Australia, air potato is now naturalized throughout the West Indies and tropical America. In the United States, it is found in Hawaii, Texas, Louisiana, Mississippi, Alabama, Georgia and Florida. Sensitivity to freezing temperatures has limited its expansion into more temperate areas. Air potato occurs throughout Florida from Monroe County in the south to Escambia County in the western panhandle. It is most often found on disturbed sites, but also invades natural habitats including hammocks and pinelands.

Dioscorea bulbifera - air potato



Cuscuta spp. - dodders

Florida's noxious weed list excludes native species of *Cuscuta*, but all dodder species are considered plant pests that reduce the viability of nursery stock. Plant pests include any living stage of parasitic weeds that can injure or damage a plant. Parasitic plants in nursery stock are subject to quarantine to prevent the spread of the pest (F.S. 581.011).

FEDERAL NOXIOUS WEED

S HABITAT

roadsides, pastures, forest edges; depend on the host plant for nutrition; generally, they do not kill their host, but can substantially weaken it

SROWTH FORM

fast growing, twining, parasitic vines, with yellow or orange stems; tooth-like projections called "haustoria" that penetrate the host plant; not aromatic when crushed; roots present only on young plants

🝁 LEAVES

inconspicuous or absent

🔆 FLOWERS

white, tubular, about 1/8 inch in diameter, often in dense clusters

🕼 FRUIT

a whitish berry, opening by a cap-like lid in some species, or more often, decaying on the vine or on the soil and releasing the seeds gradually

SEEDLINGS

single thread-like stem attached by roots until contact with host, then roots wither

IDENTIFICATION

parasitic vine with spaghetti-like stems, 1-3mm in diameter; forming a dense mat over host plants

no chlorophyll (not green in color, but orange or yellow)

roots and leaves usually lacking

penetrating haustoria (suckers) along stem

not aromatic when crushed





The genus contains about 150 species with a worldwide distribution. In this country, one or more species is found in every state, except Alaska. Many species are restricted to a single host, but all Florida dodders have a wide host range. Eight species are native in Florida, and of these, *Cuscuta pentagona* is the most widely distributed, but at least one of these species is found in almost every county. Of the exotic species, only *C. japonica* has been collected in Florida and that only in Gadsden County. The native species include *C. americana, C. compacta, C. exaltata, C. gronovii, C. indecora, C. obtusiflora, C. pentagona*, and *C. umbellata*.

Cuscuta spp. - dodders



Bignoniaceae - Trumpet creeper Family

Dolichandra unguis-cati – cat's claw vine

Cat's claw vine was known to be in Florida in the late 1940s when this attractive plant was introduced as an ornamental under the older name Macfadyena unguis-cati. This species is a woody vine with root tubers and stolons that can also form at each node as it grows along the soil surface. The name cat's claw refers to the shape of the tendrils, thought to look like a three-toed cat's claw.

FLEPPC-Cat. I invasive

🔊 НАВІТАТ

disturbed areas as well as sandhills, scrub and upland pine and hardwood forests

🜲 GROWTH FORM

woody vine to 50 feet long, often rooting at the nodes, forming underground tubers; climbing with claw-like, three-pronged tendrils

🝁 LEAVES

opposite, compound, with two small, ovate or lanceolate leaflets

FLOWERS

yellow, trumpet shaped, growing singly or clustered, to 4 inches across

🕼 FRUIT

linear and flat pods, 20 inches long, containing wind-dispersed, oblong, winged seeds

SEEDLINGS

new plants have simple leaves with slightly toothed margins unlike the compound leaves with smooth margins of adult vines

IDENTIFICATION

woody vine with opposite, two-leaflet, compound leaves

claw-like tendrils with tree prongs

yellow tubular flowers distinguish it from the native, orange-flowered cross vine

linear, flattened pods to 20 inches long



DISTRIBUTION

Cat's claw vine is native to the West Indies and from Mexico through Argentina.

In Florida, it has been vouchered by herbarium specimens from scattered counties throughout the state with a concentration in the central and southeastern peninsula.

Dolichandra unguis-cati – cat's claw vine



Forest and Kim Starr

Forest and Kim Starr





flower

Mikania micrantha - climbing hempweed

Although this plant has been found in Miami-Dade County, surveys have found no spread beyond the Redland area. In tropical Asia, the plant is an important weed of plantation crops, such as tea, oil palms, coconuts, cacao, and coffee. The vine covers crops with a dense mat of foliage, shading them and even causing their stems to break.

FEDERAL NOXIOUS WEED

FLEPPC-Cat. II invasive

S HABITAT

disturbed habitats, crop plantations, abandoned plant nurseries

🜲 GROWTH FORM

rampantly growing, perennial, twining vine; stem round in cross section or indistinctly six-angled, deciduous flap of leaf-like tissue (pseudostipule) between the two leaves at each node

🛊 LEAVES

opposite, heart-shaped or triangular, with a long, slender, tapering tip and a coarsely toothed margin; yellow-green, 5-7 nerved from the base, mostly without hairs (glabrous) on the leaf blade

✤ FLOWERS

florets white, less than $^{5}\!/_{8}$ inch long, densely arranged in long-stalked, glabrous, axillary flower clusters

🐌 FRUIT

black, dry fruits (achenes) with five ribs, sparsely sprinkled with glandular dots; pappus of 30 to 32 fine, hair-like, white bristles

SEEDLINGS

leaves similar to adult form

IDENTIFICATION

twining vine without sharp angles on the stem, overtopping other vegetation in disturbed areas

opposite, heart-shaped leaves with long, tapering tip

deciduous flap of leaf-like tissue (pseudostipule) between the two leaves at each node

heads of four white florets, less than 5/8 inch long, on glabrous inflorescence branches



DISTRIBUTION

The species is native throughout tropical America, but it has become widely naturalized in the Old World tropics, particularly in Asia and the Pacific islands. In the United States, it was found in Florida. So far, the plant has only been found in the Redlands area of Miami-Dade County.

Mikania micrantha - mile-a-minute



flower close up

Lonicera japonica – Japanese honeysuckle

Japanese honeysuckle was introduced in Florida in 1875 as an ornamental and has been used as a deer forage. This species is a woody vine that can cover forest floors, climb tall trees and form dense mats in forest canopies. The vine can even strangle small saplings by twining around them and girdling their trunks.

FLEPPC-Cat. I invasive

S HABITAT

disturbed areas, hammock edges, wetlands, scrub and upland hardwood forests

🜲 GROWTH FORM

woody, evergreen to semi-evergreen vine, twining or scrambling, without tendrils or aerial roots; to 30 feet in length

LEAVES

opposite, simple, ovate to oblong, 1-2 inches long, sometimes lobed, midrib pubescent

🔆 FLOWERS

fragrant, tubular, two-lipped, white to cream colored

🕼 FRUIT

spherical berry, 1/4 inch in diameter; black when ripe

SEEDLINGS

leaves can be simple, like the adult leaves, or with lobed margins

IDENTIFICATION

woody vine, usually very hairy, with opposite, simple leaves and twining habit

white to yellow tubular flowers with very unequal lobes forming two lips

black spherical fruit

DISTRIBUTION



Japanese honeysuckle is native to China, Japan and Korea. In the United States, it has escaped cultivation throughout most of the East Coast and southern states from New York and Michigan through Florida and California. It is regulated as a noxious weed, prohibited plant or invasive species in Connecticut, New Hampshire, Ohio and Vermont. In Florida, it has been vouchered by herbarium specimens from scattered counties throughout the state with a concentration in the central and southeastern peninsula.

Lonicera japonica – Japanese honeysuckle



Chris Evans



leaves





Paederia foetida - skunkvine

Paederia foetida (skunkvine) and *Paederia cruddasiana* (sewervine) are very similar in habit, appearance and odor. The following description applies to both perennial twining vines. Both are aggressive, fast-growing vines that can trail over the ground or climb high up in trees forming thick, tangled masses of vegetation and killing trees and understory plants. In Florida, sewervine has been found only in Broward and Miami-Dade counties.

FLEPPC-Cat. I invasive

HABITAT

disturbed sites such as residential landscapes, parks, abandoned lots, pastures, fencerows, roadsides and utility corridors; native plant communities, including sandhills, floodplains, hammocks and upland mixed forests

🜲 GROWTH FORM

vines with slender and herbaceous stems, reaching over 30 feet in length; evergreen in South Florida, but deciduous in central and northern Florida; woody roots and stem base possible; can produce roots along stem at nodes

🛊 LEAVES

opposite or whorled; disagreeable (skunklike) odor when crushed; variable blade shape, but usually lobed or cordate (heart shaped) at base; petioles from ¼ to 3½ inches long; flap of tissue (interpetiolar stipule) between the two leaves at each node

✤ FLOWERS

pinkish-white, grayish-pink or pale purple, less than ¹/₂-inch-long, tubular with five short lobes, darker purplish-red throat; outside of tube densely hairy

🕼 FRUIT

globose, pea-sized, capsule, shiny brown and papery at maturity; two black seeds, dotted with white, needle-shaped crystals

SEEDLINGS

no description found, assume leaves similar to adult

IDENTIFICATION

vine with opposite leaves, obvious stipules and disagreeable odor when crushed

small, white to pinkish-lavender, tubular flowers with purple throat

Paederia cruddasiana fruit ellipsoid to ovoid and laterally compressed capsules and conspicuous wings on the seed margins

Paederia foetida capsules subglobose with unwinged seeds

DISTRIBUTION



Skunkvine is native to temperate and tropical Asia and has naturalized in North America, South America, the Mascarene Islands and the Pacific Islands. In the United States, it occurs in Hawaii, Texas, Louisiana, Florida, Georgia and the Carolinas. Skunkvine has been vouchered from Florida counties scattered from Escambia in the north to Miami-Dade in the south, while sewervine has been found only in Broward and Miami-Dade.

Paederia foetida - skunkvine

Shirley Denton



2 mm

Dioscoreaceae - Yam Family

Dioscorea alata - winged yam

This yam is an important food crop throughout the tropics. Although it is not as common as the air potato (*Dioscorea bulbifera*), vines of the winged yam are just as vigorous, smothering other vegetation from ground level into the tree canopy. The winged yam reproduces primarily by means of aerial tubers (called bulbils) borne on the stems and seldom develops flowers in Florida.

FLEPPC-Cat. I invasive

growing in disturbed sites, canopy gaps and forest edges throughout the state; escapes from cultivation

🜲 GROWTH FORM

deciduous, clockwise twining, herbaceous vine, growing to 50 feet or more, with four usually purplish wings

🔹 LEAVES

opposite, but often alternate at the base of the vine; heart-shaped or arrowhead-shaped; 5-7 conspicuous, arching, longitudinal veins on leaf blade

🔆 FLOWERS

rarely seen in Florida; inconspicuous, whitish petals

🚯 FRUIT

rarely seen in Florida; three-winged capsules in drooping racemes

- SEEDLINGS

rarely seen in Florida; new plants develop from elongated, tuber-like bulbils

IDENTIFICATION

vine, with twining, winged stems, dying to the ground during the winter

leaves opposite, but can be alternate at the base of the vine

elongated, rough-textured tubers in the axils of the leaves; up to 4 inches long.

two native species, *D. floridana* and *D. villosa*, do not produce aerial tubers, but have flowers and fruit in Florida; air potato (*D. bulbifera*) has alternate leaves and no wings on the stem



DISTRIBUTION

This plant is widely cultivated as a food plant, with hundreds of named cultivars. Its area of origin is believed to be in Southeast Asia. In the United States, it is reported to be naturalized in Florida, Georgia and Louisiana, with its naturalized range is expanding. Although the winged yam was introduced into Florida by Spanish and Portuguese traders in the 1500s, it only recently has become widely naturalized. At present, it is found growing outside cultivation in counties scattered throughout the state, from Escambia to Miami-Dade.

Dioscorea alata - winged yam



Schinus terebinthifolia - Brazilian pepper

Brazilian pepper was first introduced to Florida as an ornamental in the 1840s, and by the 1950s it had been documented as an invasive pest in both disturbed and natural habitats. It is estimated to have invaded over 700,000 acres in Florida, including large swaths of Everglades National Park. The name of this genus has been treated as either masculine or feminine, so the epithet may be spelled *terebinthifolius* or *terebinthifolia*. Classical Greek and Latin usage seems to be feminine. We are following the Atlas of Florida Vascular Plants and other authorities in spelling the epithet *terebinthifolia*.

FLEPPC-Cat. I invasive

HABITAT

moist to mesic disturbed sites, sand dunes, shell mounds, coastal strands, tidal marshes, swamps, hammocks, wet flatwoods, scrub and upland pine forests

GROWTH FORM

shrub or a small- to medium-sized multi-stemmed tree to 45 feet tall (usually shorter) with a dense tangle of branches

LEAVES

alternate, odd-pinnately compound, with usually seven to nine sessile leaflets; oblong to elliptic leaflets, 1 to 2 inches long, dark green above and paler green below, conspicuous midvein and parallel lateral veins are lighter in color; margins often toothed

✤ FLOWERS

male and female flowers on separate plants; tiny (less than 1/10 inch long), five-petaled, white flowers in short clusters in the leaf axils near the branch tips

🌑 FRUIT

spherical, fleshy fruit with a single seed, about 1/5 inch in diameter; glossy, bright red at maturity

SEEDLINGS

first true leaves are not compound, but have sharp teeth along the margins and can be lobed at the base

IDENTIFICATION

medium tall shrub or small tree with intertwining branches

dark green, pinnate compound leaves with prominent lighter colored veins

clusters of bright red, ripe fruit

clear, resinous sap from wounds that turns black when dry

DISTRIBUTION



Native to Brazil, Argentina and Paraguay, Brazilian pepper is widely cultivated as an ornamental. It has escaped from cultivation and naturalized in much of tropical America, the West Indies, Africa, the Mascarene Islands, Europe, southern Asia, Pacific Islands, and the coasts of Australia. In the United States, Brazilian pepper has established outside of cultivation in southern regions of California, Texas, and Alabama as well as Hawaii and Florida. Brazilian pepper occurs throughout peninsular Florida.

Schinus terebinthifolia - Brazilian pepper



Jeff Lotz

Jeff Lotz



Sapindaceae-Soapberry Family

Cupaniopsis anacardioides - carrotwood

This fast-growing, evergreen tree has smooth, gray outer bark, but the inner bark is often orange; hence, the common name "carrotwood." It was introduced to Florida as an ornamental as early as 1955; by 1990, it was observed in both disturbed and natural communities, especially moist coastal lowlands such as mangroves.

FLEPPC-Cat. I invasive

planted as a street ornamental; escaped into disturbed areas and natural areas

GROWTH FORM

evergreen, usually single-trunked tree up to 35 feet tall

alternately, pinnately compound, with four to 10 leaflets on short, swollen stalks; glossy, leathery leaflets may be oblong, elliptic or obovate and have no teeth or lobes, but the rounded apex is sometimes notched

✤ FLOWERS

less than ${\rm 1}\!\!/_2$ inch wide, greenish-white to yellow, borne in branched, often pendulous, inflorescences in the axil of leaves

🚯 FRUIT

three-lobed or three-ridged, woody capsules; orange-yellow when ripe and ½ to 1 inch in diameter; splitting, when ripe, to reveal three shiny, black seeds enclosed in a fleshy orange to red tissue called an aril

SEEDLINGS

first true leaves are pinnate compound or trifoliate (sometimes only two leaflets), with a few teeth along the leaflet margin; petiole and rachis winged

IDENTIFICATION

conspicuous clusters of orange-yellow, three-lobed fruit

black seeds surrounded by bright red aril when fruits open

pinnate, compound leaves, some with a notch indented at the tip





Carrotwood is native to New Guinea and the northern and eastern coasts of Australia. It is cultivated as an ornamental in subtropical and tropical regions. In Florida, this species has escaped from cultivation and is naturalized in both disturbed and undisturbed coastal habitats on the central and southern peninsula. Tolerant of poor soils, periodic flooding, drought, salt and shade, carrotwood is found in coastal hammocks, dunes, strands, mangrove swamps, marshes, pine scrub, flatwoods and spoil islands.

Cupaniopsis anacardioides - carrotwood



Forest & Kim Starr









Mimosa pigra - catclaw mimosa

This species was first collected in Florida in 1953 and is thought to have been introduced through intentional cultivation or as a contaminant in imported nursery stock. By 1985, large infestations were noted in South Florida. Catclaw mimosa forms dense, impenetrable thickets that displace native vegetation and choke waterways.

FEDERAL NOXIOUS WEED

FLEPPC-Cat. I invasive

S HABITAT

scrub, sandhills, coastal berms, shell mounds, mesic flatwoods, strand swamps, depression marshes and weedy areas

GROWTH FORM

sprawling, multi-branched shrub, 10 to 20 feet high; stems covered with short, stiff, appressed hairs and scattered, curved prickles to ½ inch long

LEAVES

alternate and bipinnately compound, with 8 to14 pairs of pinnae and 25 to 43 pairs of leaflets; solitary, vertical prickles where opposing pinnae meet and paired horizontal prickles on the rachis between each pair of pinnae; leaflets and pairs of pinnae are sensitive (fold together at night or when touched)

✤ FLOWERS

tiny; four inconspicuous petals and eight showy, pink, lilac or white stamens in dense, globular heads about $\frac{1}{2}$ inch wide composed of about 100 flowers

🕼 FRUIT

flattened pods $1\frac{1}{2}$ to 5 inches long, covered with bristly hairs in clusters of two to 30; turning from green to brown at maturity and breaking into single-seeded segments

SEEDLINGS

first leaves may be pinnate, rather than bipinnate

IDENTIFICATION

sprawling, multi-branched shrub with scattered, curved prickles to $\frac{1}{2}$ inch long on the stem

bipinnate leaves, with 8 to14 pairs of pinnae armed with horizontal and vertical prickles

pink, lilac or white flowers with showy stamens in heads 1/2 inch wide

flattened pods 11/2 to 5 inches long, covered with bristly hairs in clusters of two to 30





Catclaw mimosa is native to Mexico, Central America, South America and probably the West Indies. It is also widely distributed in large parts of continental Africa, as well as the islands of Madagascar and Mauritius, but it is unclear whether it is native or a very early introduction to Africa. This species has escaped from cultivation and naturalized in northern Australia, Southeast Asia, the Galapagos Islands, Hawaii and Florida. In Florida, it has been vouchered by herbarium specimens from a few counties in the southern peninsula.

Mimosa pigra - catclaw mimosa



Wibowo Djatmiko, wikipedia





leaf



Leguminosae (Fabaceae) - Legume Family

Leucaena leucocephala - white lead tree

The tree is frost-sensitive and is usually killed to the ground during most winters in northern Florida; however, regrowth is rapid and most trees recover sufficiently to produce a large crop of seeds each year. This species is very similar to the tree *Albizia julibrissin* (mimosa), but the flower colors differ.

FLEPPC-Cat. II invasive

disturbed flatwoods, spoil areas, roadsides, and other weedy sites

🛦 GROWTH FORM

deciduous shrub or small tree to 25 feet tall has an open, spreading crown and smooth, pale gray-brown bark

LEAVES

alternate; twice-pinnately compound, to about a foot long; 4-9 pairs of pinnae (main divisions); dimple-like gland on the rachis; leaflets, with a pointed tip and an uneven base, about 1/2 inch long and 1/8 inch wide; 13 to 17 pairs per pinna

✤ FLOWERS

tiny, white or yellowish; in dense ball-like clusters (heads) about ³/₄ inch in diameter

🚯 FRUIT

flat pods, rounded or blunt at the tip or with a short, broad point, 5 to 7 inches long and an inch or less wide, reddish brown when mature; 10 to 20 flattened seeds

SEEDLINGS

first leaves pinnate, but twice-pinnate leaves quickly develop

IDENTIFICATION

small tree twice-pinnately compound leaves

dimple-like gland on the rachis

during flowering, numerous tiny, white or yellowish-white flowers in dense, spherical heads

during fruiting, numerous seed pods, reddish brown when mature





The lead tree is native to Mexico and Central America, but it is cultivated throughout the tropics, and it has widely escaped and naturalized. In the United States, it has been reported from Arizona, California, Florida, Hawaii and Texas. Lead tree has been collected in scattered counties from Alachua County to the Keys (Monroe County).

Leucaena leucocephala - white lead tree



Sheldon Navie









leaf gland

Scaevola taccada - beach naupaka

The name of this species has been the source of considerable debate. Other names that have been used include *Scaevola sericea*, *Scaevola koenigii* and *Scaevola frutescens*. In Asia, the pith of the stems is used to make rice paper, and the leaves and fruit are said to be edible, but not palatable. In Florida, beach naupaka is displacing endangered native plant species. It grows rapidly and produces abundant seed, which has hastened its spread.

FLEPPC-Cat. I invasive

coastal strands, tidal swamps, beach dunes, rock barrens, maritime hammocks and disturbed coastal sites

🜲 GROWTH FORM

variable, evergreen, multi-stemmed shrub forming rounded mounds, usually 3 to 8 feet high, but can reach 16 feet

🛊 LEAVES

leathery, spirally arranged, densely clustered at the branch tips; 3 to 9 inches long, with a spoon-like shape; glossy, lime green; revolute (with the margins rolled under)

✤ FLOWERS

in groups of three in short, axillary clusters; corolla is split along one side, fan-like, five pale green and white petal lobes, with faint dark lines running lengthwise

🕼 FRUIT

single-seeded, globose to ovoid, fleshy, white fruits about $\frac{1}{2}$ inch long with persistent sepals; small seeds are white to off-white in color, with longitudinally ridges

SEEDLINGS

juvenile leaves are similar to mature leaves

IDENTIFICATION

shrub near coastal strands or beaches similar to native inkberry, Scaevola plumieri

leathery, flexible leaves 3 to 9 inches long, with margins often rolled under

flower corolla split along one side, in a distinctive fan-like shape

ripe fruit white in color (native inkberry fruit turns black when ripe)



DISTRIBUTION

Beach naupaka is native to coastal areas and islands of the Old World tropics and subtropics, including East Africa, Asia, the South Pacific and northern Australia. It is naturalized in Florida, the West Indies and possibly in other parts of tropical America. This species is found in frost-free areas along the coast from Brevard and Pinellas counties southward.

Scaevola taccada - beach naupaka











Sapium sebiferum (Triadica sebifera) – Chinese tallow

There is not general agreement as to the correct generic name for this plant (*Triadica* or *Sapium*), so we use the name as it appears in Rule 5B-57, Florida Administrative Code, where *Sapium* sebiferum is designated a noxious weed by the state of Florida. Louisiana, Mississippi and Texas have also designated it a noxious weed. Before its invasive character was known, Chinese tallow (also known as popcorn tree) was planted as an ornamental with leaves that turn brilliant shades of red in the fall.

FLEPPC-Cat. I invasive

S HABITAT

mostly moist sites, from roadsides to mesic flatwoods and swamps

GROWTH FORM

deciduous tree to 40 feet tall, with an airy, rounded crown; abundant root suckers

LEAVES

alternate; blade roughly diamond-shaped, broad base and long-pointed tip, 1 to 3 inches long; petiole often as long as the blade; milky sap

FLOWERS

separate male and female flowers in long, slender, drooping yellow catkins

🕼 FRUIT

three-parted capsule, brown at maturity, with three white seeds, remaining on the branches and resembling a popped kernel of popcorn

SEEDLINGS

first leaves similar to adult leaves

IDENTIFICATION

simple diamond-shaped leaves, with long petioles and long, pointed tip

conspicuous brown, three-lobed fruit with three white seeds like popped popcorn

milky sap exuded when leaves are damaged



DISTRIBUTION

The tree is native to Central China and Japan, but it is widely cultivated for the oil in its seeds. It has escaped and has become a weed in various parts of the world, but particularly in Asia and Australia. In the United States, it is naturalized in the coastal states from North Carolina to Texas. It has been recorded from counties in all parts of Florida.

Sapium sebiferum (Triadica sebifera) – Chinese tallow



John D. Byrd



Ardisia crenata - coral ardisia

This species is a multi-stemmed shrub up to 6 feet tall, but usually shorter. It is sometimes found in dish gardens or potted as a houseplant. This highly ornamental species has escaped from cultivation and is now thoroughly naturalized. The dense clusters of bright red berries ripen in winter.

FLEPPC-Cat. I invasive

S HABITAT

dense stands of coral ardisia cover forest understories, especially wetter areas, and shade out seedlings of native ground covers

GROWTH FORM

multi-stemmed shrub up to 6 feet tall; usually no more than 3 feet tall; large underground storage stem; plants resprout after fire or stem damage

🛊 LEAVES

alternate, elliptic, evergreen, glossy, up to about 8 inches long; margins are conspicuously crenate (scalloped)

🔆 FLOWERS

in the axils of the leaves in dense, drooping, rounded clusters; five, small, pale pink or white petals

🚯 FRUIT

bright red when ripe, round, about $\frac{1}{3}$ inch in diameter, in dense drooping clusters; occasional plants with white or pink fruits

🜱 SEEDLINGS

even very young plants have the characteristic leaves with scalloped margins

IDENTIFICATION

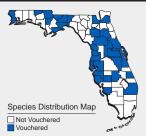
understory shrub

glossy green leaves with conspicuously crenate (scalloped) margins; nodules in the crenations

bright red, round fruit about $1/_3$ inch in diameter, in dense drooping clusters, persisting through the winter

small, white or pale pink, star-shaped flowers

other species of *Ardisia* occur in Florida, but only coral ardisia has leaves with scalloped margins and red fruit



DISTRIBUTION

Coral ardisia is native to temperate and tropical Asia, from Japan to northern India, but has been widely introduced in other areas as an ornamental and has become naturalized in Alabama, Georgia, Hawaii, Louisiana and Texas as well as Florida. In Florida, the shrub is usually found in rich, moist, often dense woods in the panhandle and in the peninsula in scattered counties from Duval south to Lee and Palm Beach counties.

Ardisia crenata - coral ardisia



Batholith



flower





Colubrina asiatica - latherleaf

Colubrina asiatica was used the plant as a traditional source of soap, medicine and fish poison. This fast-growing plant has become extremely problematic in hammocks of South Florida and the Keys where its dense growth is threatening native flora.

FLEPPC-Cat. I invasive

S HABITAT

coastal dunes and hammocks, marshes, beaches and disturbed areas

🜲 GROWTH FORM

fast-growing, scrambling evergreen shrub with stems to 30 or more feet long

🛊 LEAVES

alternate, glossy green, serrate margins and three main veins arising from the base; 1.6 to 3.5 inches long by 1 to 2 inches wide

FLOWERS

small, green to white flowers in small clusters near leaf axils; five conspicuous sepals, five concave petals clasping a fleshy nectar ring; each petal enclosing a stamen

🎒 FRUIT

green and fleshy turning to brown and dry capsule containing three grayish brown seeds that float and are salt-tolerant

SEEDLINGS

first true leaves small, but resemble adult foliage

IDENTIFICATION

leaves with serrate margins with three main veins

scrambling growth form

upright glabrous stems

crushed leaves producing a thin soapy lather in water



DISTRIBUTION

This species is native from eastern Africa across to southern Asia and Australia. It is also found naturally on some Pacific Islands, including Hawaii. The plant has spread from introductions in Jamaica throughout the Caribbean and to Mexico and Florida. Latherleaf has been documented along the central Florida coasts south through the Keys, where it is very common. Often, the plant invades coastal hammocks and dunes as well as mangrove forests, marshes and disturbed areas.

Colubrina asiatica - latherleaf



Melaleuca quinquenervia – melaleuca

Melaleuca was first introduced to Florida around 1886 as an ornamental, shade tree and windbreak. In the 1930s, the U.S. Army Corps of Engineers planted it to stabilize levees on Lake Okeechobee, and seeds were spread from airplanes over the Everglades.

FEDERAL NOXIOUS WEED

FLEPPC-Cat. I invasive

S HABITAT

usually expected in wetlands, but found in a variety of habitats, including scrub, sandhills, mesic to wet flatwoods, coastal hammocks, marshes, lakes, mangroves, coastal strands and disturbed sites

🜲 GROWTH FORM

evergreen tree to 80-100 feet tall; white, orangish-tan or gray peeling bark

🛊 LEAVES

alternate, narrowly lance-shaped or sickle-shaped, leathery, gray-green, usually with five parallel veins running lengthwise; strong eucalyptus aroma when crushed

✤ FLOWERS

white, cream or greenish-white flowers in bottlebrush-like spikes at branch tips; conspicuous stamens, held in bundles of 5-10, fused at their bases

🗿 FRUIT

cup-shaped, woody capsules, approximately ³/₈-inch-wide, in dense clusters along branches; each with hundreds of tiny seeds

SEEDLINGS

silvery hairs on young leaves, otherwise similar to adult leaves

IDENTIFICATION

evergreen tree with peeling white, orangish-tan or gray bark

alternate, narrow, leathery, gray-green, leaves with (usually) five longitudinal veins

bottlebrush-like of white flower clusters at the branch tips

dense clusters of woody capsules along branches, persisting for years



DISTRIBUTION

Melaleuca is native to New South Wales and Queensland, Australia, New Caledonia and Papua New Guinea. It is widely cultivated in tropical regions and has naturalized in southern Africa, India, the Philippines, the West Indies, Central America, Guyana, Hawaii, Louisiana and Florida. This species is found in central and southern Florida counties. Melaleuca's impact is most profound in the Everglades, where it forms dense stands that severely impact the ecosystem by altering water flow, displacing native plant species and reducing habitat and food sources for wildlife.

Melaleuca quinquenervia – melaleuca





bark





Ardisia elliptica - shoebutton ardisia

This evergreen tree or shrub invades natural areas, forming clumps or thickets that crowd out other species. It is a pest plant in tropical and subtropical areas, including Hawaii.

FLEPPC-Cat. I invasive

escaped from cultivation into mesic hammocks in the central and southern peninsula

GROWTH FORM

evergreen tree or shrub, 15 to 20 feet in height, with a large tap root that aids in resprouting after fire or other damage

LEAVES

leathery, alternate leaves; entire, elliptic to elliptic-obovate or ovate; dotted with glands on the lower surface of the leaf blade; new leaves reddish

✤ FLOWERS

axillary cluster of pinkish-purple, star-shaped flowers

🚯 FRUIT

fruit looks like a berry, but is a round drupe (like a peach fruit, with a single seed), about $\frac{1}{4}$ inch across; first white, and then maturing from red to purple to black

SEEDLINGS

first true leaves are similar to mature leaves

IDENTIFICATION

tree or shrub in dense stands within natural areas

new foliage is often with a red tint

conspicuous clusters of small, purplish-pink, star-shaped flowers in the axils of leaves

black fruit (when ripe)



DISTRIBUTION

This species is possibly native to India, but certainly tropical Asia, and is now found in tropical and subtropical regions around the world. Documented occurrences of shoebutton ardisia are known from several coastal counties in the central and southern peninsula. This species thrives in maritime hammocks, coastal forests, swamplands, flatwoods and waste places in South Florida.

Ardisia elliptica - shoebutton ardisia



Patricia Howell



leaves





Solanum viarum - tropical soda apple

Tropical soda apple is a fast-growing, rapidly spreading species that adapts to a broad range of environmental conditions. It displaces native plant species and poses a serious threat to the cattle and vegetable industries. A successful biocontrol program using the tropical soda apple leaf-eating beetle, *Gratiana boliviana*, has helped control this weed by causing extensive defoliation.

FEDERAL NOXIOUS WEED

FLEPPC-Cat. I invasive

HABITAT

pastures, citrus groves, vegetable fields and roadsides as well as natural areas of scrub, flatwoods, swamps, floodplain forests and edges of pinelands and hammocks

🗍 GROWTH FORM

shrubby, herbaceous perennial, 3 to 6 feet tall; stems finely pubescent with simple hairs and broad-based, curved prickles (occasionally straight prickles also)

ELEAVES

alternate, glistening, ovoid, slightly sticky blades, three to five broad lobes on each side, 4 to 8 inches long, covered with a mix of simple, gland-tipped and stellate (star-shaped) hairs (seen with a 10X hand lens); petioles to 2 inches long; straight, rigid, yellowish prickles along midvein and secondary veins on upper and lower surfaces and petiole

♣ FLOWERS

star shaped with 5 white petals and 5 prominent, pale-yellow anthers in clusters of up to 5 flowers

🗊 FRUIT

spherical berries ½ to 1½ inches across; immature fruit pale green with darker green markings, turning dull yellow; up to 400, small, rounded seeds

SEEDLINGS

first leaves and petioles have prickles

IDENTIFICATION

shrubby plant with prickles and hairy, sticky-feeling leaves

immature fruit pale green with darker green markings, turning dull yellow when ripe

most often found in pastures and agricultural fields



DISTRIBUTION

Although native to South America, tropical soda apple is now naturalized in the West Indies, Mexico and Central America, as well as tropical regions of Africa, Asia and Australia. It has invaded the United States, from North Carolina and Tennessee west to Texas and Oklahoma. First reported from Florida in 1988, tropical soda apple has now been vouchered with herbarium specimens from most counties in the peninsula and several in the eastern panhandle.

Solanum viarum - tropical soda apple



Allan Boatman







Solanaceae - Black Nightshade Family

Solanum torvum - turkeyberry

This is an evergreen, multi-branched shrub or small tree that can grow to 16 feet high. Branchlets bear stellate (star-shaped) hairs and scattered, flattened, broad-based, straight to slightly hooked prickles (absent on older woody branches).

FEDERAL NOXIOUS WEED

FLEPPC-Cat. II invasive

HABITAT

usually open, disturbed areas (with full to partial sun exposure), such as roadsides, agricultural fields, pastures and cleared woodlands, but also dry to mesic hammocks, floodplain marshes and swamps

🜲 GROWTH FORM

evergreen, multi-branched shrub or small tree and grow up to 16 feet tall

LEAVES

alternate, blade is 3-10 in. long, oblong to ovate in shape, irregularly lobed or unlobed; upper leaf surface, is green and stellate pubescent; lower surface, paler grayish-green and more densely stellate pubescent with scattered prickles along the midveins

✤ FLOWERS

stalks of up to 100 bright white, star-shaped flowers, 1/2 to 1 inch across in a mix of bisexual and staminate (male) flowers at leaf axils; scattered stellate hairs and simple gland-tipped hairs are found on the calyx

🕼 FRUIT

globose to ovoid fruit, to 1/2 inch wide, yellow to brown at maturity; in erect clusters

SEEDLINGS

cotyledons with short trichomes; first true leaves green, pubescent, with irregular lobes; petioles may be purple-tinged or green

IDENTIFICATION

tree-like habit (or at least the development of woody tissue)

stout, flattened, slightly hooked prickles

petiolate leaves with oblique bases and dense stellate hairs below

bright white flowers with short, glandular hairs mixed with stellate hairs on the inflorescence branches, pedicels and calyces

clusters of blueberry-sized fruit that turn yellow, orange or brownish with age

DISTRIBUTION



Turkeyberry is native to the West Indies (including the Bahamas, the Greater Antilles and the Lesser Antilles), Mexico, Central America and northern and western South America. In Florida, it has been documented with herbarium specimens mainly in southern Florida, but also in Columbia County.

Solanum torvum - turkeyberry





Forest & Kim Starr

leaf underside with dense stellate hairs

Solanum tampicense - wetland nightshade

This species, known as aquatic soda apple and scrambling nightshade as well as wetland nightshade, is especially difficult to control. Plants resprout readily, and in full sun, plants produce flowers and fruit year-round. It displaces native species by forming extensive, impenetrable thickets in remote areas, in full sun or deep shade in harmocks, on ditch banks and along roadsides.

FEDERAL NOXIOUS WEED

FLEPPC-Cat. I invasive

floodplain forests, swamps, disturbed and regularly flooded wetlands, open marshes

GROWTH FORM

sprawling to clambering multi-stemmed shrub with a woody base or small tree; stems to 16 feet tall with broad-based, curved prickles; forming dense, tangled thickets

LEAVES

alternate, ovate to lanceolate, 3 to 9 inches long, and pinnately lobed with broad, rounded sinuses between the lobes; curved prickles on veins of lower surface; sometimes straight prickles along veins on the upper leaf surface; unlike tropical soda apple (*Solanum viarum*) **not** sticky to the touch

✤ FLOWERS

borne in short-stalked clusters in the leaf axils; white corolla, about ⁵/₈ inch wide, with five linear-lanceolate petals united only at the base; bright yellow anthers

🕼 FRUIT

globose berries, about ³/₈ inch in diameter; lustrous surface changing from green to orange to red; 10 to 60 flattened, roundish, yellow to tan seeds

SEEDLINGS

first true leaves green with sinuate margins, glabrous or with a few short hairs; purple main veins, petiole and prickles

IDENTIFICATION

sprawling to clambering multi-stemmed shrub or small tree

found growing near water in dense thickets

clusters of small (less than 3/8 inch wide) fruit, maturing red

pubescent leaves with stellate hairs only (no sticky, glandular hairs)

DISTRIBUTION



Wetland nightshade is native to Cuba, the Cayman Islands, Mexico and Central America. This species has been observed in a few central Florida counties and the Keys of Monroe County. It has invaded three major river basins, including the Peace River drainage, Fisheating Creek (part of the western Okeechobee River drainage), and the Big Cypress Swamp drainage.

Solanum tampicense - wetland nightshade



Alison Fox







Charles T. Bryson

Casuarinaceae - Sheoak Family

Casuarina spp. - Australian pines

Three species of *Casuarina* have naturalized in Florida: *C. cunninghamiana*, *C. equisetifolia* and *C. glauca*. The latter two are listed as noxious weeds in Florida, but all species of *Casuarina* are Class I Prohibited Aquatic Plants. Also, hybrids of *Casuarina* in Florida with intermediate characteristics make species-level field identification difficult. For that reason, this guide will help you to recognize the genus, not species or hybrids.

FLEPPC-Cat. I invasive

dense stands

🗍 GROWTH FORM

evergreen tree with gray-brown to reddish-brown bark, smooth and peeling on younger trees, becoming rough and furrowed with age

LEAVES

true leaves are tiny, triangular, scale-like; arranged in whorls at the end of each branchlet; structures that appear to be needle-like leaves are slender, segmented branchlets, olive-green to gray-green with minute, longitudinal ridges

★ FLOWERS

tiny, inconspicuous; *C. equisetifolia* is monoecious, with male and female flowers on a single tree; *C. glauca* and *C. cunninghamiana* are dioecious, with male and female flowers on separate trees.

🐌 FRUIT

 $1/_6$ to $1/_5$ inch long, single seeded, samaras, borne in woody, cone-like fruiting heads $1/_2$ to 1 inch long

SEEDLINGS

even very young plants have the characteristic branchlets with segments that break apart

IDENTIFICATION

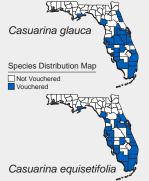
trees, superficially like pines, which have needle-like leaves in bundles of two to five needles, but on *Casuarina* the needle-like structures are branchlets that snap apart in segments

true leaves are tiny, triangular, scales arranged in a whorl around the branchlet

samaras, borne in woody, cone-like fruiting heads 1/2 to 1 inch long

no pine fragrance

DISTRIBUTION



Of the three Australian pine species found in Florida, *C. equisetifolia* has the widest native distribution, ranging from the Andaman and Nicobar Islands through Southeast Asia, Malesia and the western Pacific Islands to northern and eastern Australia. *Casuarina cunninghamiana* and *C. glauca* are native Australia. All three are cultivated throughout the subtropics and tropics. In Florida, *C. equisetifolia* and *C. glauca* are most common in coastal habitats near brackish or salt water; *C. cunninghamiana* is typically found on the fringes of freshwater rivers and streams and can occur further inland than the two other species. In Florida, Australian pine is found in frost-free areas most often on coastal strands, but also in tidal swamps, beach dunes, rock barrens, maritime hammocks and disturbed coastal sites. *Casuarina equisetifolia* is the most common and widespread Australian pine species in Florida.

Casuarina spp. - Australian pines

Bob Bierman

Roger Hammer

Roger Culos Wikipedia



Casuarina equisetifolia in landscape/growth form



leaf, fruit and seeds

C. glauca fruit



Forest & Kim Starr

Casuarina equisetifolia seedling

Ligustrum sinense - Chinese privet

Chinese privet was introduced to the United States as an ornamental shrub in 1852 and had escaped from cultivation by the 1930s. It has colonized abandoned homesteads, vacant lots, pastures and forests and is now regarded as one of the major weeds of woodland habitats in the southeastern United States.

FLEPPC-Cat. I invasive

S HABITAT

usually open, low and moist disturbed sites, but also reported from upland hammocks, pinelands, floodplains, maritime hammocks, beach dunes and edges of swamps, marshes, lakes and streams

🜲 GROWTH FORM

evergreen to semi-deciduous shrub or small tree to 16 feet tall; shallow, but extensive root system, with frequent suckers that help form dense stands

🛊 LEAVES

opposite to subopposite; petioles (leaf stalks) and leaf undersides sparsely pubescent; ovate to elliptic leaf blades, less than 2 inches long

✤ FLOWERS

tiny, white to off-white flowers borne in 2- to 4-inch-long, cone-shaped clusters at branch tips and leaf axils; disagreeable odor

🚯 FRUIT

small (less than 1/4 inch long), blue-black; one to four seeds

🜱 SEEDLINGS

first true leaves opposite and similar to adult leaves

IDENTIFICATION

dense stands of shrubs or small trees

hairy twigs with raised, tan-colored lenticels (plant pores)

blunt-tipped, opposite leaves less than 2 inches long with hairs on leaf undersides

cone-shaped clusters of tiny, white flowers with a disagreeable odor



DISTRIBUTION

Chinese privet is native to China, Vietnam and Laos. It is naturalized in South Africa, the Mascarene Islands, Australia, New Zealand, the Pacific Islands, Argentina and much of the eastern and central United States, from southern New England west to Kansas and south to Texas and Florida. It is particularly problematic in wetlands and moist forests in the southeastern United States. This species has been documented with herbarium specimens from most of the panhandle, parts of North and Central Florida and Miami-Dade County.

Ligustrum sinense - Chinese privet

James H. Miller, USDA Forest Service



Rhodomyrtus tomentosa - downy rose-myrtle

This attractive ornamental with sweet and edible fleshy fruits was introduced into Florida in the 1920s, where it soon escaped and rapidly became a serious pest. It is fire-resistant, resprouting rapidly after being burned, and it forms dense stands in pinelands and other habitats, mostly in the central part of the state.

FLEPPC-Cat. I invasive

S HABITAT

varied sites including scrub, coastal strands and flatwoods

🜲 GROWTH FORM

shrub growing to 6 feet tall with many branches

LEAVES

opposite, leathery evergreen with three conspicuous main veins; densely hairy on the underside with gray or tawny hairs, occasionally glabrous (without hairs); oval, blunt at the apex, 2 to 3 inches long

✤ FLOWERS

growing singly or a few together in the axils of the leaves; five rose-pink petals, central mass of pink stamens

🕼 FRUIT

juicy berry is about $^{1\!/_{2}}$ inch across, turning dark purple when ripe, blueberry shape, up to 200 small seeds

SEEDLINGS

young leaves similar to adult leaves

IDENTIFICATION

shrub with opposite leaves

three-nerved leaves, dark green on the upper side and gray or tawny on the underside from dense hairs

rosy pink flowers with five petals and many stamens



DISTRIBUTION

The downy myrtle is native to southern and southeastern Asia, from India to the Philippines and Indonesia, where it grows in a variety of habitats from sea level to 7,000 feet elevation. It has been introduced into the Pacific Islands where it has become seriously invasive. In the United States, it has only been recorded from Hawaii and Florida, where it has been documented in scattered counties, from Central Florida to Collier and Palm Beach counties in the south.

Rhodomyrtus tomentosa - downy rose-myrtle



Roger Hammer



fruit

Noxious Weed Species

COMMON NAME	SCIENTIFIC NAME	CATEGORY
air potato	Dioscorea bulbifera	Vines
Australian pine	Casuarina spp.	Woody
beach naupaka	Scaevola taccada	Woody
Brazilian pepper	Schinus terebinthifolius	Woody
Burma reed	Neyraudia reynaudiana	Grasses
carrotwood	Cupaniopsis anacardioides	Woody
catclaw mimosa	Mimosa pigra	Woody
cat's claw vine	Dolichandra unguis-cati	Vines
Chinese privet	Ligustrum sinense	Woody
Chinese tallow	Sapium sebiferum	Woody
climbing hempweed	Mikania micrantha	Vines
coat buttons	Tridax procumbens	Herbs
cogongrass	Imperata cylindrica	Grasses
coral ardisia	Ardisia crenata	Woody
dodder	Cuscuta spp.	Vines
downy myrtle	Rhodomyrtus tomentosa	Woody
itchgrass	Rottboellia cochinchinensis	Grasses
Japanese climbing fern	Lygodium japonicum	Ferns
Japanese honeysuckle	Lonicera japonica	Vines
kudzu	Pueraria montana	Vines
Kyasuma grass	Pennisetum pedicellatum	Grasses
latherleaf	Colubrina asiatica	Woody
little bell morning glory	Ipomoea triloba	Vines
melaleuca	Melaleuca quinquenervia	Woody
missiongrass, thin napiergrass	Pennisetum polystachyon	Grasses
rosary pea	Abrus precatorius	Vines
sessile joyweed	Alternanthera sessilis	Herbs
shoebutton ardisia	Ardisia elliptica	Woody
skunkvine and sewervine	Paederia spp.	Vines
small-leaved climbing fern	Lygodium microphyllum	Ferns
tropical soda apple	Solanum viarum	Woody
tropical spiderwort	Commelina benghalensis	Herbs
turkeyberry	Solanum torvum	Woody
wetland nightshade	Solanum tampicense	Woody
white lead tree	Leucaena leucocephala	Woody
white yam	Dioscorea alata	Vines
wild sugarcane	Saccharum spontaneum	Grasses
yellow bristlegrass	Setaria pumila	Grasses

Noxious weeds are regulated by the state of Florida, based on CHAPTER 5B-57, F.A.C.

Additional Information Sources

Websites

FDACS DPI

https://www.freshfromflorida.com/Divisions-Offices/Plant-Industry/Bureaus-and-Services/ Bureau-of-Entomology-Nematology-Plant-Pathology/Botany/Noxious-Weeds

UF/IFAS Center for Aquatic and Invasive Plants http://plants.ifas.ufl.edu/

UF/IFAS Assessment of Non-native Plants in Florida's Natural Areas https://assessment.ifas.ufl.edu/

Florida Exotic Pest Plant Council http://www.fleppc.org/

Federal Noxious Weed List https://www.aphis.usda.gov/plant_health/plant_pest_info/weeds/downloads/weedlist.pdf

Books

Bryson, C.T. and M.W.DeFelice. 2009. Weeds of the South. University of Georgia Press, Athens, Georgia. 468 p.

Langeland, K.A., H.M. Cherry, C.M. McCormick and K.A.Craddock Burks. 2008. Nonnative plants in Florida's natural areas. The University of Florida, IFAS Communications Services, Gainesville, Florida. 193 p.

Simberloff, D. et al. 1997. Strangers in paradise: impact and management of nonindigenous species in Florida. Island Press, Washington, DC. 479 p.

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The photographs made easily available from Bugwood https://www.bugwood.org, Florida Plant Atlas http://florida.plantatlas.usf.edu and wikipedia https://www.wikipedia.org are appreciated. Photographers are acknowledged for individual photographs within the guide.

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