

A Floristic Survey and Rare Species Assessment of Prairie
Pines Preserve, Lee County, Florida
Final Report
Contract #2645 Task 2

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Cover photo: Depression marsh at Prairie Pines Preserve by the primary author.

Introduction:

Lee County Parks and Recreation manages Prairie Pines Preserve. Lee County possessed very little floristic data on Prairie Pines Preserve including floristic inventories, lists of rare plant species, lists of exotic species, or status of rare plant species. The Institute for Regional Conservation (“IRC”) was contracted to provide these data to Lee County on this property.

Study Design:

Survey Prairie Pines Preserve, owned by Lee County, producing a species list and collect occurrence data for agency listed rare species. Two biologists visit each habitat during each inventory period. Inventory periods take place four times within the year covering each flowering season, winter, spring, summer, and fall.

- a) Make list of all plant species on property.
- b) Estimate population sizes on a \log_{10} scale of all mature individuals of each plant species.
- c) Collect GPS coordinates for occurrences of rare plant species when they occupy small, discrete areas on each site.

Results:

Prairie Pines Preserve was visited by two IRC biologists December 2-4 & 17-18, 2003, April 20-22, July 6-8, and September 14-16, 2004. Within the Prairie Pines Preserve, a total of 503 native, naturalized, and cultivated exotic plant species were recorded in our surveys. Of these 422 (84%) are considered native to Lee County and 81 (16%) are considered exotic and naturalized, two are yet to be determined. Two additional non-native species *Opuntia ficus-indica* and *Vitex trifolia* were recorded as cultivated only, from dumped material, on the site. Of the exotic species found on the preserve, 33 were considered ruderal or potentially invasive. Potentially invasive species include *Acacia auriculiformis*, *Hemarthria altissima*, *Murdannia nudiflora*, *Panicum maximum*, *Pennisetum purpureum*, *Phoenix reclinata*, *Neyraudia reynaudiana*, *Syngonium podophyllum*, and *Vitex trifolia*. Of the native species recorded, 27 species determined to be ruderal only, 6 % of the native flora. Twenty-seven vascular plants listed as invasive or potentially invasive by the Florida Exotic Pest Plant Council (FLEPPC) were recorded at the site. All were found naturalized on the site. Taxonomy follows Wunderlin (1998) or Gann et al. (2004).

No plant species listed by the U.S. Fish and Wildlife Service were recorded. Seven plant species listed by the State of Florida as threatened or endangered were recorded. Three plant species listed by the Florida Natural Areas Inventory (FNAI) as critically imperiled (S1), imperiled (S2) or rare (S3) in Florida were recorded. Sixteen plant species considered critically imperiled (SF1) in South Florida by The Institute for Regional Conservation (Gann et al 2004) were recorded. One plant species, *Rubus cuneifolius*, ranked as critically imperiled

by IRC was downranked to imperiled as a result of this survey. Two plant species are newly recorded for South Florida (*Euthamia graminifolia* var. *hirtipes* and *Salvia azurea*) and are now considered critically imperiled to this region. Twenty-five rare plant species were recorded (Table 4), 6% of the native plant species recorded.

If determinations could not be made in the field, plants were new to Lee County, or documentation of unusual species was deemed important plants were vouchered. These collections are deposited at Fairchild Tropical Botanic Garden in Coral Gables, FL. A total of 101 collections were made at the preserve and include 91 species.

A total of 9 habitats were surveyed during this study (Table 1). Habitats follow guidelines provided by the Florida Natural Areas Inventory and Florida Department of Natural Resources (FNAI, 2004) or The Institute for Regional Conservation (Gann et al., 2004). Habitats surveyed include: basin marsh, bayhead, depression marsh, disturbed upland (including roadside), disturbed wetland, mesic flatwoods, prairie hammock, wet flatwoods, and wet prairie. Bayhead is a habitat newly reported for Prairie Pines Preserve.

The compiled plant list is provided in two formats. Table 2 provides a list of vascular plants recorded at the site arranged by group, family, and then genus/species. Common names and native status are also provided here. Table 3 provides a list of vascular plants recorded at the site arranged by genus/species with common names. In Table 3, native status, state status, FNAI status, IRC status, FL EPPC status, habitat location, and collector/collector # are provided. Also in Table 3, population size estimates on a \log_{10} scale of each of these species are noted. Table 4 provides a list of rare plants recorded at the site. Table 5 provides a list of rare species with GPS coordinates in decimal degrees for discrete locations, and a description of where the plants were observed.

An electronic copy of this report and a plant list with the above information in excel format is also provided and also includes Herbarium Label data for those plants collected.

Table 1:

The Habitats of Prairie Pines Preserve

The following are habitat descriptions for the 9 habitats encountered in the 2003-2004 survey of Prairie Pines Preserve.

Basin Marsh: Large basin with peat substrate; seasonally inundated; temperate or subtropical; frequent fire; sawgrass and/or cattail and/or buttonbush and/or mixed emergents (FNAI 2004).

Bayhead: Wetland with peat substrate; usually saturated and occasionally inundated; subtropical; rare or no fire; bays and/or dahoon holly, cocoplum, wax myrtle, and other hardwoods. This category is not used by the Florida Natural Areas Inventory and has been added (Gann et al., 2001).

Depression Marsh: Small rounded depression in sand substrate with peat accumulating toward center; seasonally inundated, still water; subtropical or temperate; frequent or occasional fire; maidencane, fire flag, pickereelweed, and mixed emergents, may be in concentric bands (FNAI 2004).

Disturbed Upland (including Roadside): Includes areas such as roadsides, agricultural fields, or thickets. This category is not used by the Florida Natural Areas Inventory and has been added (Gann et al., 2004).

Disturbed Wetland: Includes disturbed wet areas such as ditches, canals, and borrow pits. This category is not used by the Florida Natural Areas Inventory and has been added (Gann et al., 2004).

Mesic Flatwoods: Flatland with sand substrate; mesic; subtropical or temperate; frequent fire; slash pine and/or longleaf pine with saw palmetto, gallberry and/or wiregrass or cutthroat grass understory (FNAI 2004).

Prairie Hammock: Flatland with sand/organic soil over marl or limestone substrate; mesic; subtropical; occasional or rare fire; live oak and/or cabbage palm. (FNAI 2004).

Wet Flatwoods: Flatland with sand substrate; seasonally inundated; subtropical or temperate; frequent fire; vegetation characterized by slash pine or pond pine and/or cabbage palm with mixed grasses and herbs (FNAI 2004).

Wet Prairie: Flatland with sand substrate; seasonally inundated; subtropical or temperate; annual or frequent fire; maidencane, beakrush, spikerush, wiregrass, pitcher plants, St. John's wort, mixed herbs. (FNAI 2004).

Table 2:
The Vascular Plants of
Prairie Pines Preserve, Lee County



The Institute for Regional Conservation
 Miami, Florida

Compiled from field observations made by Steven W. Woodmansee and Jimi L. Sadle between December 2nd, 2003 and September 16th, 2004.

Dicots

Acanthaceae

E	<i>Blechnum pyramidatum</i>	Green shrimpplant, Browne's blechnum
	<i>Dyschoriste oblongifolia</i>	Common twinflower, Oblongleaf twinflower
	<i>Elytraria caroliniensis</i> var. <i>angustifolia</i>	Narrowleaf Carolina scalystem
	<i>Ruellia succulenta</i>	Thickleaf wild petunia
	<i>Stenandrium dulce</i>	Pinklet

Aceraceae

	<i>Acer rubrum</i>	Red maple
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Amaranthaceae

E	<i>Alternanthera philoxeroides</i>	Alligatorweed
	<i>Amaranthus australis</i>	Southern water-hemp, Southern amaranth
E	<i>Amaranthus spinosus</i>	Spiny amaranth
E	<i>Gomphrena serrata</i>	Globe-amaranth
	<i>Iresine diffusa</i>	Bloodleaf, Juba's bush

Anacardiaceae

	<i>Rhus copallinum</i>	Winged sumac
E	<i>Schinus terebinthifolius</i>	Brazilian-pepper
	<i>Toxicodendron radicans</i>	Eastern poison-ivy

Annonaceae

	<i>Annona glabra</i>	Pond-apple
	<i>Asimina reticulata</i>	Common pawpaw, Netted pawpaw

Apiaceae

	<i>Centella asiatica</i>	Coinwort, Spadeleaf
	<i>Cycospermum leptophyllum</i>	Marsh parsley
	<i>Eryngium baldwinii</i>	Baldwin's eryngo
	<i>Eryngium yuccifolium</i>	Button snakeroot, Button rattlenakemaster
	<i>Hydrocotyle umbellata</i>	Manyflower marshpennywort
	<i>Oxypolis filiformis</i>	Water dropwort, Water cowbane

Apocynaceae

E	<i>Catharanthus roseus</i>	Madagascar-periwinkle
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Aquifoliaceae

Ilex cassine
Ilex glabra

Dahoon holly, Dahoon
Gallberry, Inkberry

Araliaceae

E *Schefflera actinophylla*

Australian umbrellatree

Asclepiadaceae

Asclepias lanceolata
Asclepias tuberosa
Asclepias verticillata
Sarcostemma clausum

Fewflower milkweed
Butterflyweed, Butterfly milkweed
Whorled milkweed
Whitevine, White twinevine

Asteraceae

Acmella oppositifolia var. *repens*
Ambrosia artemisiifolia
Aster adnatus
Aster carolinianus
Aster dumosus
Aster subulatus
Baccharis glomeruliflora
Baccharis halimifolia
Bidens alba var. *radiata*
Bigelovia nudata subsp. *australis*
Boltonia diffusa
Carphephorus carnosus
Carphephorus corymbosus
Carphephorus odoratissimus var. *subtropicanus*
Chaptalia tomentosa
Cirsium horridulum
Cirsium nuttallii
Conyza canadensis var. *pusilla*
Coreopsis floridana
Coreopsis leavenworthii
Elephantopus elatus
E *Emilia fosbergii*
E *Emilia sonchifolia*
Erechtites hieracifolia
Erigeron quercifolius
Erigeron vernus
Eupatorium capillifolium
Eupatorium leptophyllum
Eupatorium mikanioides
Eupatorium mohrii
Eupatorium rotundifolium
Euthamia caroliniana
Euthamia graminifolia var. *hirtipes*
Flaveria linearis
Gnaphalium falcatum
Helenium pinnatifidum
Heterotheca subaxillaris
Hieracium megacephalon
Iva microcephala
Lactuca graminifolia

Oppositeleaf spotflower
Common ragweed
Clasping aster, Scaleleaf aster
Climbing aster
Rice button aster
Annual saltmarsh aster
Silverling
Saltbush, Groundsel tree, Sea-myrtle
Spanish-needles
Southern pineland rayless goldenrod
Smallhead Doll's-daisy
Pineland chaffhead
Florida paintbrush, Coastalplain chaffhead
Pineland purple, False vanillaleaf
Woolly sunbonnets, Pineland daisy
Purple thistle
Nuttall's thistle
Dwarf Canadian horseweed
Florida tickseed
Leavenworth's tickseed
Florida elephant's-foot, Tall elephant's-foot
Florida tasselflower
Lilac tasselflower
Fireweed, American burnweed
Southern-fleabane, Oakleaf fleabane
Early whitetop fleabane
Dog-fennel
Falsefennel
Semaphore eupatorium, Semaphore thoroughwort
Mohr's thoroughwort
Roundleaf thoroughwort, False horehound
Slender goldenrod
Flattop goldenrod
Narrowleaf yellowtops
Cudweed, Narrowleaf purple everlasting
Southeastern sneezeweed
Camphorweed
Coastal plain hawkweed
Piedmont marshelder
Grassleaf lettuce

<i>Liatris tenuifolia</i> var. <i>quadriflora</i>	Shortleaf gayfeather
<i>Lygodesmia aphylla</i>	Roserrush
<i>Mikania cordifolia</i>	Florida Keys hempvine
<i>Mikania scandens</i>	Climbing hempweed, Climbing hempvine
<i>Pectis prostrata</i>	Spreading cinchweed
<i>Pityopsis graminifolia</i>	Narrowleaf silkgrass
<i>Pluchea odorata</i>	Sweetscent
<i>Pluchea rosea</i>	Rosy camphorweed
<i>Pterocaulon pycnostachyum</i>	Blackroot
<i>Rudbeckia hirta</i>	Blackeyed susan
<i>Solidago fistulosa</i>	Pinebarren goldenrod
<i>Solidago odora</i> var. <i>chapmanii</i>	Chapman's goldenrod
<i>Solidago sempervirens</i>	Seaside goldenrod
<i>Solidago stricta</i>	Narrow-leaved goldenrod, Wand goldenrod
<i>Solidago tortifolia</i>	Twistedleaf goldenrod
E <i>Sonchus asper</i>	Spiny sowthistle
E <i>Tridax procumbens</i>	Brittleweed, Coatbuttons
<i>Verbesina virginica</i>	Frostweed, White crownbeard
<i>Vernonia blodgettii</i>	Florida ironweed
E <i>Vernonia cinerea</i>	Little ironweed
<u>Boraginaceae</u>	
<i>Heliotropium polyphyllum</i>	Pineland heliotrope
<u>Brassicaceae</u>	
<i>Lepidium virginicum</i>	Poor-man's-pepper, Virginia pepperweed
<u>Buddlejaceae</u>	
<i>Polypremum procumbens</i>	Rustweed, Juniperleaf
<u>Cactaceae</u>	
CE <i>Opuntia ficus-indica</i>	Spineless cactus
<u>Campanulaceae</u>	
<i>Lobelia glandulosa</i>	Glade lobelia
<i>Lobelia paludosa</i>	White lobelia
<u>Caryophyllaceae</u>	
<i>Drymaria cordata</i>	West Indian chickweed, Drymary
<u>Casuarinaceae</u>	
E <i>Casuarina equisetifolia</i>	Australian-pine, Horsetail casuarina
<u>Chenopodiaceae</u>	
<i>Chenopodium ambrosioides</i>	Mexican tea
<u>Chrysobalanaceae</u>	
<i>Licania michauxii</i>	Gopher-apple
<u>Cistaceae</u>	
<i>Helianthemum corymbosum</i>	Pinebarren frostweed
<i>Lechea torreyi</i>	Piedmont pinweed
<u>Clusiaceae</u>	
<i>Hypericum brachyphyllum</i>	Coastalplain St. John's-wort
<i>Hypericum cistifolium</i>	Roundpod St. John's-wort
<i>Hypericum fasciculatum</i>	Sandweed, Peelbark St. John's-wort

<i>Hypericum gentianoides</i>	Pineweeds, Orangegrass
<i>Hypericum hypericoides</i>	St. Andrew's-cross
<i>Hypericum mutilum</i>	Dwarf St. John's-wort
<i>Hypericum myrtifolium</i>	Myrtleleaf St. John's-wort
<i>Hypericum reductum</i>	Atlantic St. John's-wort
<i>Hypericum tetrapetalum</i>	Fourpetal St. John's-wort
<u>Convolvulaceae</u>	
<i>Evolvulus sericeus</i>	Silver dwarf morningglory
<i>Ipomoea cordatotriloba</i>	Tievine
<i>Ipomoea sagittata</i>	Everglades morningglory
<u>Cucurbitaceae</u>	
<i>Melothria pendula</i>	Creeping-cucumber
E <i>Momordica charantia</i>	Wild balsam-apple, Balsampear
<u>Droseraceae</u>	
<i>Drosera brevifolia</i>	Dwarf sundew
<i>Drosera capillaris</i>	Pink sundew
<u>Ebenaceae</u>	
<i>Diospyros virginiana</i>	Persimmon, Common persimmon
<u>Ericaceae</u>	
<i>Bejaria racemosa</i>	Tarflower
<i>Gaylussacia dumosa</i>	Dwarf black-huckleberry, Dwarf huckleberry
<i>Lyonia fruticosa</i>	Coastalplain staggerbush
<i>Lyonia lucida</i>	Fetterbush
<i>Vaccinium myrsinites</i>	Shiny blueberry
<u>Euphorbiaceae</u>	
<i>Chamaesyce blodgettii</i>	Limestone sandmat
<i>Chamaesyce hirta</i>	Hairy spurge, Pillpod sandmat
<i>Chamaesyce hyssopifolia</i>	Eyebane, Hyssopleaf sandmat
<i>Chamaesyce thymifolia</i>	Gulf sandmat
<i>Cnidoscolus stimulosus</i>	Tread-softly, Finger-rot
<i>Croton glandulosus</i>	Vente conmigo
<i>Euphorbia inundata</i>	Florida pineland spurge
<i>Euphorbia polyphylla</i>	Pineland euphorbia, Lesser Florida spurge
<i>Phyllanthus amarus</i>	Gale-of-wind, Carry-me-seed
<i>Phyllanthus carolinensis subsp. saxicola</i>	Rock Carolina leafflower
E <i>Phyllanthus tenellus</i>	Mascarene Island leafflower
<i>Stillingia aquatica</i>	Corkwood, Water toothleaf
<i>Stillingia sylvatica</i>	Queensdelight
<u>Fabaceae</u>	
E <i>Abrus precatorius</i>	Rosary-pea, Crab-eyes
E <i>Acacia auriculiformis</i>	Earleaf acacia
<i>Aeschynomene americana</i>	Shyleaf
E <i>Albizia lebbek</i>	Woman's tongue, Rattlepod
<i>Centrosema virginianum</i>	Spurred butterfly-pea
<i>Chamaecrista fasciculata</i>	Partridge pea
<i>Chamaecrista nictitans var. aspera</i>	Hairy partridge-pea
E <i>Crotalaria pallida var. obovata</i>	Smooth rattlebox
<i>Crotalaria rotundifolia</i>	Rabbitbells

	<i>Dalea carnea</i>	Whitetassels
	<i>Desmodium incanum</i>	Beggar's-ticks
E	<i>Desmodium triflorum</i>	Threeflower ticktrefoil
	<i>Galactia elliotii</i>	Elliott's milkpea
	<i>Galactia regularis</i>	Eastern milkpea
	<i>Galactia volubilis</i>	Downy milkpea
E	<i>Indigofera hirsuta</i>	Hairy indigo
E	<i>Indigofera spicata</i>	Creeping indigo, Trailing indigo
E	<i>Macroptilium lathyroides</i>	Wild-bean, Wild bushbean
E	<i>Senna alata</i>	Candlestick plant
E	<i>Senna occidentalis</i>	Coffee senna, Septicweed
E	<i>Senna pendula</i> var. <i>glabrata</i>	Valamuerto
	<i>Sesbania herbacea</i>	Danglepod
	<i>Tephrosia spicata</i>	Spiked hoarypea
	<i>Vicia acutifolia</i>	Sand vetch, Fourleaf vetch
	<i>Vigna luteola</i>	Cow-pea, Hairypod cowpea
<u>Fagaceae</u>		
	<i>Quercus laurifolia</i>	Laurel oak, Diamond oak
	<i>Quercus minima</i>	Dwarf live oak
	<i>Quercus myrtifolia</i>	Myrtle oak
	<i>Quercus pumila</i>	Running oak
	<i>Quercus virginiana</i>	Virginia live oak
<u>Gentianaceae</u>		
	<i>Sabatia bartramii</i>	Bartram's rosegentian
	<i>Sabatia brevifolia</i>	Shortleaf rosegentian
	<i>Sabatia grandiflora</i>	Largeflower rosegentian
	<i>Sabatia stellaris</i>	Rose-of-Plymouth
<u>Haloragaceae</u>		
	<i>Proserpinaca palustris</i>	Mermaid weed, Marsh mermaidweed
	<i>Proserpinaca pectinata</i>	Mermaid weed, Combleaf mermaidweed
<u>Hydrophyllaceae</u>		
	<i>Hydrolea corymbosa</i>	Skyflower
<u>Lamiaceae</u>		
	<i>Hyptis alata</i>	Musky mint, Clustered bushmint
E	<i>Hyptis pectinata</i>	Comb bushmint
	<i>Physostegia purpurea</i>	False dragonhead, Eastern false dragonhead
	<i>Piloblephis rigida</i>	Wild pennyroyal
	<i>Sabia azurea</i>	Blue sage, Azure blue sage
<u>Lauraceae</u>		
	<i>Cassytha filiformis</i>	Lovevine, Devil's gut
	<i>Persea palustris</i>	Swamp bay
<u>Lentibulariaceae</u>		
	<i>Pinguicula lutea</i>	Yellow butterwort
	<i>Pinguicula pumila</i>	Small butterwort
	<i>Utricularia cornuta</i>	Horned bladderwort
	<i>Utricularia foliosa</i>	Leafy bladderwort
	<i>Utricularia gibba</i>	Cone-spur bladderwort, Humped bladderwort
	<i>Utricularia purpurea</i>	Eastern purple bladderwort

<i>Utricularia radiata</i>	Little floating bladderwort
<i>Utricularia simulans</i>	Fringed bladderwort
<i>Utricularia subulata</i>	Zigzag bladderwort
<u>Linaceae</u>	
<i>Linum floridanum</i>	Florida yellow flax
<i>Linum medium</i> var. <i>texanum</i>	Stiff yellow flax
<u>Loganiaceae</u>	
<i>Mitreola petiolata</i>	Miterwort, Lax hornpod
<i>Mitreola sessilifolia</i>	Miterwort, Swamp hornpod
<u>Lythraceae</u>	
<i>Ammannia latifolia</i>	Pink redstem, Toothcup
E <i>Cuphea carthagenensis</i>	Colombian waxweed
<i>Lythrum alatum</i> var. <i>lanceolatum</i>	Winged loosestrife
<i>Rotala ramosior</i>	Toothcup, Lowland rotala
<u>Malvaceae</u>	
<i>Sida acuta</i>	Common wireweed, Common fanpetals
E <i>Sida rhombifolia</i>	Cuban jute, Indian hemp
E <i>Urena lobata</i>	Caesarweed
<u>Melastomataceae</u>	
<i>Rhexia cubensis</i>	West Indian meadowbeauty
<i>Rhexia mariana</i>	Pale meadowbeauty, Maryland meadowbeauty
<i>Rhexia nuttallii</i>	Nuttall's meadowbeauty
<u>Menyanthaceae</u>	
<i>Nymphoides aquatica</i>	Big floatingheart
<u>Moraceae</u>	
<i>Ficus aurea</i>	Strangler fig, Golden fig
<u>Myricaceae</u>	
<i>Myrica cerifera</i>	Wax myrtle, Southern Bayberry
<u>Myrsinaceae</u>	
<i>Rapanea punctata</i>	Myrsine, Colicwood
<u>Myrtaceae</u>	
E <i>Melaleuca quinquenervia</i>	Punktree
E <i>Psidium cattleianum</i>	Strawberry guava
E <i>Rhodomyrtus tomentosa</i>	Downy myrtle, Rose myrtle
E <i>Syzygium cumini</i>	Jambolan-plum, Java-plum
<u>Nymphaeaceae</u>	
<i>Nymphaea elegans</i>	Blue waterlily, Tropical royalblue waterlily
<i>Nymphaea mexicana</i>	Yellow waterlily
<i>Nymphaea odorata</i>	American white waterlily
<u>Olacaceae</u>	
<i>Ximenia americana</i>	Hog-plum, Tallowwood
<u>Onagraceae</u>	
<i>Gaura angustifolia</i>	Southern gaura, Southern beeblossom
<i>Ludwigia alata</i>	Winged primrosewillow
<i>Ludwigia curtissii</i>	Curtiss's primrosewillow

<i>Ludwigia linifolia</i>	Southeastern primrosewillow
<i>Ludwigia maritima</i>	Seaside primrosewillow
<i>Ludwigia microcarpa</i>	Smallfruit primrosewillow
<i>Ludwigia octovalvis</i>	Mexican primrosewillow
E <i>Ludwigia peruviana</i>	Peruvian primrosewillow
<i>Ludwigia repens</i>	Creeping primrosewillow
<u>Oxalidaceae</u>	
<i>Oxalis corniculata</i>	Lady's-sorrel, Common yellow woodsorrel
<u>Passifloraceae</u>	
<i>Passiflora incarnata</i>	Maypop, Purple passionflower
<i>Passiflora suberosa</i>	Corkstem passionflower
<u>Phytolaccaceae</u>	
<i>Phytolacca americana</i>	American pokeweed
<u>Plantaginaceae</u>	
<i>Plantago virginica</i>	Southern plantain, Virginia plantain
<u>Polygalaceae</u>	
<i>Polygala baldwinii</i>	Baldwin's milkwort
<i>Polygala grandiflora</i>	Candyweed, Showy milkwort
<i>Polygala incarnata</i>	Procession flower
<i>Polygala lutea</i>	Orange milkwort
<i>Polygala nana</i>	Candyroot
<i>Polygala ramosa</i>	Low pinebarren milkwort
<i>Polygala setacea</i>	Coastalplain milkwort
<u>Polygonaceae</u>	
<i>Polygonum densiflorum</i>	Denseflower knotweed
<i>Polygonum hydropiperoides</i>	Mild water-pepper, Swamp smartweed
E <i>Polygonum lapathifolium</i>	Pale smartweed, Curlytop knotweed
<i>Polygonum punctatum</i>	Dotted smartweed
<u>Portulacaceae</u>	
<i>Portulaca pilosa</i>	Pink purslane, Kiss-me-quick
<u>Primulaceae</u>	
<i>Anagallis minima</i>	Chaffweed
<i>Anagallis pumila</i>	Florida pimpernel
<i>Samolus ebracteatus</i>	Water pimpernel, Limewater brookweed
<i>Samolus valerandi</i> subsp. <i>parviflorus</i>	Pineland pimpernel, Seaside brookweed
<u>Ranunculaceae</u>	
<i>Clematis baldwinii</i>	Pine-hyacinth
<u>Rosaceae</u>	
<i>Rubus cuneifolius</i>	Sand blackberry
<i>Rubus trivialis</i>	Southern dewberry
<u>Rubiaceae</u>	
<i>Cephalanthus occidentalis</i>	Common buttonbush
<i>Diodia virginiana</i>	Buttonweed, Virginia buttonweed
<i>Galium tinctorium</i>	Stiff marsh bedstraw
E <i>Hedyotis corymbosa</i>	Flattop mille grains
<i>Hedyotis procumbens</i>	Innocence, Roundleaf bluet

	<i>Hedyotis uniflora</i>	Clustered mille graine
E	<i>Richardia brasiliensis</i>	Tropical Mexican clover
	<i>Spermacoce assurgens</i>	Woodland false buttonweed
E	<i>Spermacoce verticillata</i>	Shrubby false buttonweed
<u>Salicaceae</u>		
	<i>Salix caroliniana</i>	Coastal Plain willow
<u>Sapindaceae</u>		
E	<i>Cupaniopsis anacardioides</i>	Carrotwood
<u>Sapotaceae</u>		
	<i>Sideroxylon reclinatum</i>	Recline Florida bully
<u>Scrophulariaceae</u>		
	<i>Agalinis fasciculata</i>	Beach false foxglove
	<i>Agalinis linifolia</i>	Flaxleaf false foxglove
	<i>Bacopa caroliniana</i>	Lemon hyssop, Lemon bacopa, Blue waterhyssop
	<i>Bacopa monnieri</i>	Water hyssop, Herb-of-grace
	<i>Buchnera americana</i>	American bluehearts
	<i>Gratiola hispida</i>	Rough hedgehyssop
	<i>Gratiola ramosa</i>	Branched hedgehyssop
	<i>Linaria canadensis</i>	Canada toadflax
E	<i>Lindernia crustacea</i>	Malaysian false-pimpernel
	<i>Lindernia grandiflora</i>	Savannah false-pimpernel
	<i>Mecardonia acuminata</i> subsp. <i>peninsularis</i>	Axillflower
	<i>Micranthemum glomeratum</i>	Manatee mudflower
	<i>Scoparia dulcis</i>	Sweetbroom, Licoriceweed
	<i>Seymeria pectinata</i>	Piedmont blacksenna
<u>Solanaceae</u>		
	<i>Physalis pubescens</i>	Husk tomato
	<i>Physalis walteri</i>	Walter's groundcherry
	<i>Solanum americanum</i>	Common nightshade, American black nightshade
E	<i>Solanum viarum</i>	Tropical soda-apple
<u>Sterculiaceae</u>		
	<i>Melochia spicata</i>	Bretonica peluda
<u>Turneraceae</u>		
	<i>Piriqueta caroliniana</i>	Pitted stripeseed
<u>Ulmaceae</u>		
	<i>Celtis laevigata</i>	Sugarberry, Hackberry
<u>Urticaceae</u>		
	<i>Parietaria floridana</i>	Florida pellitory
<u>Verbenaceae</u>		
	<i>Callicarpa americana</i>	American beautyberry
E	<i>Lantana camara</i>	Shrubverbena
	<i>Phyla nodiflora</i>	Frog fruit, Turkey tangle fogfruit, Capeweed
	<i>Verbena scabra</i>	Harsh verbena, Sandpaper vervain
CE	<i>Vitex trifolia</i>	Simpleleaf chastetree

Violaceae

Viola palmata
Viola sororia

Early blue violet
Common blue violet

Vitaceae

Parthenocissus quinquefolia
Vitis rotundifolia
Vitis shuttleworthii

Virginia-creeper, Woodbine
Muscadine
Calusa grape

Gymnosperms

Pinaceae

Pinus elliottii var. *densa*

South Florida slash pine

Monocots

Alismataceae

Sagittaria isoetiformis
Sagittaria lancifolia

Quillwort arrowhead
Bulltongue arrowhead

Amaryllidaceae

Hymenocallis palmeri
Nothoscordum bivalve

Alligatorlily
False-garlic, Crowpoison

Araceae

E *Syngonium podophyllum*

Nephtytis, American evergreen

Arecaceae

E *Phoenix reclinata*
Sabal palmetto
Serenoa repens
E *Syagrus romanzoffiana*

Senegal date palm
Cabbage palm
Saw palmetto
Queen palm

Bromeliaceae

Tillandsia fasciculata var. *densispica*
Tillandsia recurvata
Tillandsia setacea
Tillandsia usneoides
Tillandsia utriculata

Stiff-leaved wild-pine, Cardinal airplant
Ball-moss
Thin-leaved wild-pine, Southern needleleaf
Spanish-moss
Giant wild-pine, Giant airplant

Burmanniaceae

Burmannia capitata

Southern bluethead

Cannaceae

Canna flaccida

Golden canna, Bandana-of-the-everglades

Commelinaceae

E *Commelina diffusa*
E *Commelina gambiae*
E *Murdannia nudiflora*

Common dayflower
Gambian dayflower
Nakedstem dewflower

Cyperaceae

Carex longii
Carex vexans
Cladium jamaicense
Cyperus articulatus
Cyperus croceus

Long's sedge
Florida hammock sedge
Saw-grass, Jamaica swamp sawgrass
Jointed flatsedge
Baldwin's flatsedge

<i>Cyperus distinctus</i>	Distinct flatsedge, Swamp flatsedge
<i>Cyperus flavescens</i>	Yellow flatsedge
<i>Cyperus haspan</i>	Haspan flatsedge
<i>Cyperus ligularis</i>	Swamp flatsedge
<i>Cyperus odoratus</i>	Fragrant flatsedge
<i>Cyperus polystachyos</i>	Manyspike flatsedge
<i>Cyperus retrorsus</i>	Pinebarren flatsedge
<i>Cyperus surinamensis</i>	Tropical flatsedge
<i>Eleocharis baldwinii</i>	Baldwin's spikerush, roadgrass
<i>Eleocharis cellulosa</i>	Gulf Coast spikerush
<i>Eleocharis geniculata</i>	Canada spikerush
<i>Eleocharis interstincta</i>	Knotted spikerush
<i>Fimbristylis autumnalis</i>	Slender fimbry
<i>Fimbristylis cymosa</i>	Hurricane sedge, Hurricanegrass
<i>Fimbristylis dichotoma</i>	Forked fimbry
<i>Fimbristylis puberula</i>	Hairy fimbry
<i>Fuirena breviseta</i>	Saltmarsh umbrellasedge
<i>Fuirena scirpoidea</i>	Southern umbrellasedge
E <i>Kyllinga brevifolia</i>	Shortleaf spikesedge
E <i>Lipocarpa aristulata</i>	Awned halfchaff sedge
<i>Rhynchospora baldwinii</i>	Baldwin's beaksedge
<i>Rhynchospora colorata</i>	Starrush whitetop
<i>Rhynchospora divergens</i>	Spreading beaksedge
<i>Rhynchospora fascicularis</i>	Fascicled Beaksedge
<i>Rhynchospora fulifolia</i>	Threadleaf beaksedge
<i>Rhynchospora globularis</i>	Globe beak-rush
<i>Rhynchospora inundata</i>	Narrowfruit horned beaksedge
<i>Rhynchospora latifolia</i>	Giant whitetop
<i>Rhynchospora microcarpa</i>	Southern beaksedge
<i>Rhynchospora nitens</i>	Shortbeak beaksedge
<i>Rhynchospora odorata</i>	Fragrant beaksedge
<i>Rhynchospora plumosa</i>	Plumed beaksedge
<i>Rhynchospora tracyi</i>	Tracy's beaksedge
<i>Schoenus nigricans</i>	Black sedge, Black bogrush
<i>Scleria baldwinii</i>	Baldwin's nutrush
<i>Scleria ciliata</i>	Fringed nutrush
<i>Scleria ciliata</i> var. <i>pauciflora</i>	Fewflower nutrush
<i>Scleria georgiana</i>	Slenderfruit nutrush
<i>Scleria triglomerata</i>	Whip nutrush
<i>Scleria verticillata</i>	Low nutrush
<u>Eriocaulaceae</u>	
<i>Eriocaulon compressum</i>	Flattened pipewort
<i>Eriocaulon decangulare</i>	Tenangle pipewort
<i>Eriocaulon ravenelii</i>	Ravenel's pipewort
<i>Lachnocaulon anceps</i>	Whitehead bogbutton
<i>Syngonanthus flavidulus</i>	Yellow hatpins
<u>Haemodoraceae</u>	
<i>Lachnanthes caroliniana</i>	Bloodroot, Carolina redroot
<u>Hypoxidaceae</u>	
<i>Hypoxis juncea</i>	Fringed Yellow stargrass

Iridaceae

Sisyrinchium nashii

Nash's blueeyed-grass

Juncaceae

Juncus effusus var. *solutus*

Soft rush

Juncus marginatus

Shore rush, Grassleaf rush

Juncus megacephalus

Bighead rush

Juncus polycephalus

Manyhead rush

Juncus repens

Lesser creeping rush

Juncus roemerianus

Black needle rush, Needle rush, Black rush

Juncus scirpoides

Needlepod rush

Lemnaceae

Lemna obscura

Little duckweed

Spirodela polyrrhiza

Common duckweed

Liliaceae

Aletris lutea

Yellow colicroot

Lilium catesbaei

Catesby's lily, Pine lily

Schoenolirion albiflorum

Sunnybells, White sunnybell

Marantaceae

Thalia geniculata

Alligatorflag, Fireflag

Najadaceae

Najas guadalupensis

Southern waternymph

Orchidaceae

Calopogon pallidus

Pale grasspink

Eulophia alta

Wild-coco

Habenaria floribunda

Rein orchid, Toothpetal false reinorchid

Habenaria quinqueseta

Longhorn false reinorchid

Sacoila lanceolata

Leafless beaked lady's-tresses

Spiranthes longilabris

Longlip lady's-tresses

Spiranthes vernalis

Spring lady's-tresses

Poaceae

Amphicarpum mublenbergianum

Blue-maidencane

Andropogon glomeratus var. *glaucopsis*

Purple bluestem

Andropogon glomeratus var. *hirsutior*

Hairy bushy bluestem

Andropogon glomeratus var. *pumilus*

Common bushy bluestem

Andropogon gyrans

Elliott's bluestem

Andropogon longiberbis

Hairy bluestem

Andropogon virginicus var. *decipiens*

Chalky bluestem

Andropogon virginicus var. *glaucus*

Southern wiregrass

Aristida beyrichiana

Longleaf threeawn

Aristida palustris

Arrowfeather threeawn

Aristida purpurascens

Bottlebrush threeawn

Aristida spiciformis

Common carpetgrass

Axonopus fissifolius

Big carpetgrass

Axonopus furcatus

Coastal sandbur

Cenchrus incertus

Wrinkled jointtail grass

Coelorachis rugosa

E *Cynodon dactylon*

Bermuda grass

E *Dactyloctenium aegyptium*

Crow's-foot grass, Durban crowfootgrass

Dichanthelium aciculare

Needleleaf witch grass

	<i>Dichanthelium commutatum</i>	Variable witchgrass
	<i>Dichanthelium dichotomum</i>	Cypress witchgrass
	<i>Dichanthelium ensifolium</i>	Cypress witchgrass
	<i>Dichanthelium ensifolium</i> var. <i>unciphillum</i>	Cypress witchgrass
	<i>Dichanthelium erectifolium</i>	Erectleaf witchgrass
	<i>Dichanthelium leucothrix</i>	Rough witchgrass
	<i>Dichanthelium portoricense</i>	Hemlock witchgrass
	<i>Dichanthelium strigosum</i> var. <i>glabrescens</i>	Glabrescent roughhair witchgrass
	<i>Digitaria horizontalis</i>	Jamaican crabgrass
	<i>Digitaria longiflora</i>	Indian crabgrass
	<i>Digitaria pentzii</i>	Pangola grass
	<i>Echinochloa muricata</i>	Rough barnyardgrass
E	<i>Echinochloa walteri</i>	Coast cockspear
	<i>Elionurus tripsacoides</i>	Pan-American balsamscale
E	<i>Eragrostis atrovirens</i>	Thalia love grass
	<i>Eragrostis elliottii</i>	Elliott's love grass
	<i>Eragrostis spectabilis</i>	Purple love grass
	<i>Eragrostis virginica</i>	Coastal love grass
	<i>Eustachys glauca</i>	Prairie fingergrass, Saltmarsh fingergrass
	<i>Eustachys petraea</i>	Common fingergrass, Pinewoods fingergrass
E	<i>Hemarthria altissima</i>	Limpograss
	<i>Imperata brasiliensis</i>	Congongrass, Brazilian satintail
E	<i>Imperata cylindrica</i>	Congongrass, Cogongrass
	<i>Leersia hexandra</i>	Southern cutgrass
	<i>Leptochloa fascicularis</i>	Bearded spangletop, Bearded sprangletop
	<i>Muhlenbergia capillaris</i>	Muhlygrass, Hairawnmuhly
E	<i>Neyrandia reynaudiana</i>	Burmareed, Silkreed
	<i>Panicum dichotomiflorum</i>	Fall panic grass
	<i>Panicum hemitomon</i>	Maidencane
	<i>Panicum hians</i>	Gaping panicum
E	<i>Panicum maximum</i>	Guineagrass
E	<i>Panicum repens</i>	Torpedo grass
	<i>Panicum rigidulum</i>	Redtop panicum
	<i>Panicum tenerum</i>	Bluejoint panicum
	<i>Panicum virgatum</i>	Switchgrass
	<i>Paspalidium geminatum</i>	Egyptian paspalidium
	<i>Paspalum conjugatum</i>	Sour paspalum, Hilograss
E	<i>Paspalum dissectum</i>	Mudbank crowngrass
	<i>Paspalum floridanum</i>	Florida paspalum
	<i>Paspalum monostachyum</i>	Gulfdune paspalum
E	<i>Paspalum notatum</i>	Bahia grass
	<i>Paspalum praecox</i>	Early paspalum
	<i>Paspalum repens</i>	Water paspalum
	<i>Paspalum setaceum</i>	Thin paspalum
E	<i>Paspalum urvillei</i>	Vasey grass
	<i>Paspalum vaginatum</i>	Seashore paspalum
E	<i>Pennisetum purpureum</i>	Napier grass, Elephantgrass
	<i>Phragmites australis</i>	Common reed
E	<i>Rhynchelytrum repens</i>	Rose Natalgrass
	<i>Saccharum giganteum</i>	Sugarcane plumegrass
E	<i>Sacciolepis indica</i>	Indian cupscale
	<i>Sacciolepis striata</i>	American cupscale
	<i>Schizachyrium rhizomatum</i>	Rhizomatous bluestem

	<i>Setaria parviflora</i>	Knotroot foxtail, Yellow bristlegrass
	<i>Sorghastrum secundum</i>	Lopsided Indian grass
	<i>Spartina bakeri</i>	Sand cordgrass
E	<i>Sporobolus indicus</i> var. <i>pyramidalis</i>	West Indian dropseed
	<i>Sporobolus junceus</i>	Pineywoods dropseed
E	<i>Stenotaphrum secundatum</i>	St. Augustine grass
	<i>Tripsacum dactyloides</i>	Eastern gamagrass, Fakahatchee grass
E	<i>Urochloa mutica</i>	Paragrass

Pontederiaceae

	<i>Pontederia cordata</i>	Pickerelweed
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Smilacaceae

	<i>Smilax auriculata</i>	Earleaf greenbrier
	<i>Smilax bona-nox</i>	Saw greenbrier

Typhaceae

	<i>Typha domingensis</i>	Southern cat-tail
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Xyridaceae

	<i>Xyris ambigua</i>	Coastalplain yelloweyed grass
	<i>Xyris brevifolia</i>	Shortleaf yelloweyed grass
	<i>Xyris calcicola</i>	Limestone yelloweyed grass
	<i>Xyris caroliniana</i>	Carolina yelloweyed grass
	<i>Xyris difformis</i> var. <i>floridana</i>	Florida yelloweyed grass
	<i>Xyris elliottii</i>	Elliott's yelloweyed grass
	<i>Xyris flabelliformis</i>	Savannah yelloweyed grass
E	<i>Xyris jupicai</i>	Richard's yelloweyed grass
	<i>Xyris smalliana</i>	Small's yelloweyed grass

Pteridophytes

Azollaceae

	<i>Azolla caroliniana</i>	Carolina Mosquito Fern
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Blechnaceae

	<i>Blechnum serrulatum</i>	Swamp fern, Toothed midorus fern
	<i>Woodwardia virginica</i>	Virginia chain fern

Dennstaedtiaceae

	<i>Pteridium aquilinum</i> var. <i>caudatum</i>	Lacy braken fern
	<i>Pteridium aquilinum</i> var. <i>pseudocaudatum</i>	Tailed braken fern

Lycopodiaceae

	<i>Lycopodiella cernua</i>	Nodding club-moss
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Nephrolepidaceae

	<i>Nephrolepis exaltata</i>	Wild Boston fern
E	<i>Nephrolepis multiflora</i>	Asian sword fern

Osmundaceae

	<i>Osmunda cinnamomea</i>	Cinnamon fern
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Parkeriaceae

E	<i>Ceratopteris thalictroides</i>	Watersprite
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Polypodiaceae

Phlebodium aureum Golden polypody
Pleopeltis polypodioides var. *michauxiana* Resurrection fern

Psilotaceae

Psilotum nudum Whisk-fern

Pteridaceae

Acrostichum danaeifolium Giant leather fern
E *Pteris vittata* China brake

Salviniaceae

E *Salvinia minima* Water spangles

Schizaceae

E *Lygodium microphyllum* Small-leaf climbing fern

Thelypteridaceae

E *Thelypteris dentata* Downy maiden fern
Thelypteris kunthii Southern shield fern

Vittariaceae

Vittaria lineata Shoestring fern

E = Not Native to the site

CE = Not Native to the site, persisting from cultivation only

Citations:

Florida Natural Areas Inventory. 2004. Florida Natural Areas Inventory website. www.FNAI.org. Tallahassee, Florida.

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