

**A FLORISTIC SURVEY AND RARE SPECIES ASSESSMENT OF
SEVEN CONSERVATION AREAS MANAGED BY MARTIN
COUNTY ENVIRONMENTALLY ENDANGERED LANDS
DIVISION, FLORIDA
FINAL REPORT**

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Final report submitted by
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Miami, Florida

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Cover photo: Coreopsis floridana at Hawk's Hammock Park by the author.

Introduction:

Martin County Environmentally Lands Division (MCELD) manages over a dozen conservation areas. MCELD possessed little floristic data on many of these properties, including floristic inventories, lists of rare plant species, status of rare plants and lists of exotic species. The Institute for Regional Conservation (IRC) was contracted to provide these data to MCELD for seven of these properties.

Methods:

Seven selected Martin County owned conservation areas (Danforth, Hawk's Hammock Park, Muscara, Peck Lake Park, Rocky Point Hammock, Santa Lucrea/Fletcher Park, and Sundial) were surveyed producing vascular plant species lists for individual parcels and their habitats. Visits to the conservation areas took place over two seasons, spring/summer and fall/winter. Surveys were conducted in each habitat within each conservation area at least once during each season. Plant species lists include rankings of federal, state, FNAI, IRC, and FLEPPC listed species. Population sizes were estimated for rare natives. GPS coordinates were recorded for occurrences of rare plant species when they occupied small, discrete areas.

The seven conservation areas were surveyed multiple times between July 23 and November 21, 2002. In addition, five of these conservation areas (Danforth, Hawk's Hammock Park, Muscara, Peck Lake Park, and Rocky Point Hammock) had been partially surveyed by the author beginning in 1997 (Gann et al. 2001). Also, data for Peck Lake Park and Rocky Point Hammock obtained from a report published by Bradley et al. (1998) were incorporated into this study. Previous records determined to be false have been omitted. Plant taxonomy is based upon Wunderlin (1998) and Wunderlin & Hansen (2002). Definitions of habitats follow FNAI (2002) and Gann et al. (2001).

Results:

In this study a total of 622 native, naturalized, and cultivated plant species were recorded. Of these, 488 (78%) are considered native to Martin County, 124 (20%) are considered exotic and naturalizing, eight are considered cultivated exotics, and two are doubtfully native. The number of plant species on each property ranged from 94 to 291 species, with an average of 212. The number of native plant species ranged from 74 to 238 species with an average of 171. The number of exotic plant species ranged from 20 to 61 with an average of 40.

A total of 18 habitats were surveyed during this study (Table 1). Habitats surveyed include: basin marsh, baygall, bayhead, beach dune, coastal berm/spoil¹, coastal interdunal swale, coastal strand, depression marsh, disturbed upland (including roadside), disturbed wetland, mesic flatwoods, mesic hammock, scrub, scrubby flatwoods, shell mound, tidal marsh, tidal swamp, and wet flatwoods.

¹ Spoil at Peck Lake Park, Sundial, and Muscara has taken on characteristics of the coastal berm habitat.

Twenty-one plant species listed by the State of Florida as threatened or endangered were recorded (Table 23). Nine plant species listed by the Florida Natural Areas Inventory (FNAI) as critically imperiled (S1), imperiled (S2), or rare (S3) in Florida were recorded. Twenty species considered critically imperiled (SF1) in South Florida by the Institute for Regional Conservation were recorded. No federally listed species were recorded. A total of thirty-eight rare plant species were recorded, 8% of the total number of native plant species.

Vascular plant species lists for each of the seven conservation areas are provided organized in the traditional manner by taxonomic group, family, and then scientific name. Common names are also provided. Plant status (native, not native, or cultivated) and extirpation status is included here. Additional tables are provided with a check-off for all habitats found at the site. Also included in these tables are: plant status, extirpation status, rare plant status, and exotic invasive status. Lists of rare plant species for each property are also provided.

An electronic copy of all plant data is provided in spreadsheet format in Microsoft Excel. Lists of rare plants with lat/long coordinates in decimal degrees and a brief description is included in this copy.

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Table 1:

The Habitats of Seven Martin County Preserves

The following are habitat descriptions for the 18 habitats encountered in the 2002 surveys of the properties contracted.

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 2002).

Baygall: Wetland with peat substrate at base of slope; maintained by downslope seepage, usually saturated and occasionally inundated; subtropical or temperate; rare or no fire; bays and/or dahoon holly and/or red maple and/or mixed hardwoods (FNAI 2002).

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).

Beach Dune: Active coastal dune with sand substrate; xeric; temperate or subtropical; occasional or rare fire; sea oats and/or mixed salt-spray tolerant grasses and herbs (FNAI 2002).

Coastal Berm (including Spoil): Old bar or storm debris with sand/shell substrate; xeric-mesic; subtropical or temperate; rare or no fire; buttonwood, mangroves, and/or mixed halophytic herbs and/or shrubs and trees (FNAI 2002).

Coastal Interdunal Swale: Long narrow depression wetlands in sand/peat-sand substrate; seasonally inundated, fresh to brackish, still water; temperate; rare fire; graminoids and mixed wetland forbs (FNAI 2002).

Coastal Strand: Stabilized coastal dune with sand substrate; xeric; subtropical or temperate; occasional or rare fire; dense saw palmetto and/or seagrape and/or mixed stunted shrubs, yucca, and cacti (FNAI 2002).

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, pickerelweed, and mixed emergents, may be in concentric bands (FNAI 2002).

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., 2001).

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., 2001).

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 2002).

Mesic Hammock: Flatland with sand/organic soil over a sand substrate; mesic; subtropical; occasional or rare fire; live oak and/or cabbage palm. This category is not used by the Florida Natural Areas Inventory and has been added (Gann et al., 2001).

Scrub: Old dune with deep fine sand substrate; xeric; temperate or subtropical; occasional or rare fire (20 - 80 years); sand pine and/or scrub oaks and/or rosemary and lichens (FNAI 2002).

Scrubby Flatwoods: Flatland with sand substrate; xeric-mesic; subtropical or temperate; occasional fire; longleaf pine or slash pine with scrub oaks and wiregrass understory (FNAI 2002).

Shell Mound: Indian midden with shell substrate; xeric-mesic; subtropical or temperate; rare or no fire; mixed hardwoods (FNAI 2002).

Tidal Marsh: Expansive intertidal or supratidal area occupied primarily by rooted, emergent vascular macrophytes (e.g., cord grass, needlerush, saw grass, saltwort, saltgrass and glasswort); may include various epiphytes and epifauna (FNAI 2002).

Tidal Swamp: Expansive intertidal and supratidal area occupied primarily by woody vascular macrophytes (e.g., black mangrove, buttonwood, red mangrove, and white mangrove); may include various epiphytes and epifauna (FNAI 2002).

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 2002).

Table 2:
**The Vascular Plants of
 Danforth**

CR 714/Mapp Rd., Palm City, Florida

Field Data Compiled By:
 Steven W. Woodmansee, Sandra A. Vardaman, and Chuck Mc Cartney
 The Institute for Regional Conservation
 Miami, FL

Various dates 1998-2002

Dicots

<u>Aceraceae</u>	<i>Acer rubrum</i>	Red maple
<u>Amaranthaceae</u>		
E	<i>Gomphrena serrata</i>	Globe-amaranth
<u>Anacardiaceae</u>		
	<i>Rhus copallinum</i>	Winged sumac
E	<i>Schinus terebinthifolius</i>	Brazilian-pepper
	<i>Toxicodendron radicans</i>	Eastern poison-ivy
<u>Annonaceae</u>		
	<i>Asimina reticulata</i>	Common pawpaw, Notted pawpaw
<u>Apiaceae</u>		
	<i>Centella asiatica</i>	Coinwort, Spadeleaf
	<i>Eryngium aromaticum</i>	Fragrant eryngium, Fragrant Eryngo
	<i>Hydrocotyle</i> sp.	Marsh pennywort
	<i>Oxypolis filiformis</i>	Water dropwort, Water cowbane
<u>Aquifoliaceae</u>		
	<i>Ilex cassine</i>	Dahoon holly, Dahoon
	<i>Ilex glabra</i>	Gallberry, Inkberry
<u>Asclepiadaceae</u>		
	<i>Sarcostemma clausum</i>	Whitevine, White twinevine
<u>Asteraceae</u>		
	<i>Ambrosia artemisiifolia</i>	Common ragweed
	<i>Aster dumosus</i>	Rice button aster
	<i>Aster reticulatus</i>	Pinebarren aster, Whitetop aster
	<i>Aster tortifolius</i>	Dixie aster, Whitetop aster
	<i>Baccharis halimifolia</i>	Groundsel tree, Sea-myrtle

<i>Balduina angustifolia</i>	Yellow-buttons, Coastalplain Honeycombhead
<i>Bidens alba</i> var. <i>radiata</i>	Spanish-needles
<i>Bigelovia nudata</i> subsp. <i>australis</i>	Southern pineland rayless goldenrod
<i>Carphephorus carnosus</i>	Pineland chaffhead
<i>Carphephorus corymbosus</i>	Florida paintbrush, Coastalplain chaffhead
<i>Carphephorus odoratissimus</i>	Vanillaleaf
<i>Carphephorus paniculatus</i>	Hairy chaffhead
<i>Chaptalia tomentosa</i>	Woolly sunbonnets, Pineland daisy
<i>Coryza canadensis</i> var. <i>pusilla</i>	Dwarf Canadian horseweed
<i>Coreopsis floridana</i>	Florida tickseed
<i>Elephantopus elatus</i>	Florida elephant's-foot, Tall elephant's-foot
<i>Emilia fosbergii</i>	Florida tasselflower
<i>Emilia sonchifolia</i>	Lilac tasselflower
<i>Erechtites hieracifolia</i>	Fireweed, American burnweed
<i>Erigeron quercifolius</i>	Southern-fleabane, Oakleaf fleabane
<i>Erigeron vernus</i>	Early whitetop fleabane
<i>Eupatorium leptophyllum</i>	Falsefennel
<i>Eupatorium mohrii</i>	Mohr's thoroughwort
<i>Eupatorium rotundifolium</i>	Roundleaf thoroughwort, False horehound
<i>Euthamia caroliniana</i>	Slender goldenrod
<i>Helenium amarum</i>	Spanish-daisy, Bitterweed
<i>Hieracium megacephalon</i>	Coastal plain hawkweed
<i>Liatris tenuifolia</i>	Shortleaf gayfeather
<i>Lygodesmia aphylla</i>	Roserush
<i>Marshallia tenuifolia</i>	Barbara's-buttons, Grassleaf Barbara's button
<i>Mikania scandens</i>	Climbing hempweed, Climbing hempvine
<i>Pectis glaucescens</i>	Tea-blinkum, Sanddune cinchweed
<i>Pectis prostrata</i>	Spreading cinchweed
<i>Pityopsis graminifolia</i>	Narrowleaf silkgrass
<i>Pluchea foetida</i>	Stinking camphorweed
<i>Pluchea rosea</i>	Rosy camphorweed
<i>Pterocaulon pycnostachyum</i>	Blackroot
<i>Solidago fistulosa</i>	Pinebarren goldenrod
<i>Solidago odora</i> var. <i>chapmanii</i>	Chapman's goldenrod
<i>Solidago stricta</i>	Narrow-leaved goldenrod, Wand goldenrod
<i>Vernonia cinerea</i>	Little ironweed
<i>Wedelia trilobata</i>	Creeping wedelia, Creeping oxeye
<u>Boraginaceae</u>	
<i>Heliotropium polyphyllum</i>	Pineland heliotrope
<u>Buddleiaceae</u>	
<i>Polyprenum procumbens</i>	Rustweed, Juniperleaf
<u>Casuarinaceae</u>	
<i>Casuarina equisetifolia</i>	Australian-pine, Horsetail casuarina
<u>Chrysobalanaceae</u>	
<i>Licania michauxii</i>	Gopher-apple
<u>Cistaceae</u>	
<i>Lechea deckertii</i>	Deckert's pinweed

Clusiaceae

Hypericum brachyphyllum
Hypericum cistifolium
Hypericum fasciculatum
Hypericum gentianoides
Hypericum hypericoides
Hypericum reductum
Hypericum tetrapetalum

Coastal plain St. John's-wort
Roundpod St. John's-wort
Sandweed, Peelbark St. John's-wort
Pineweeds, Orangegrass
St. Andrew's-cross
Atlantic St. John's-wort
Fourpetal St. John's-wort

Crassulaceae

E, X *Kalanchoe pinnata*

Common liveleaf, Cathedral bells, Life plant

Cucurbitaceae

E *Momordica charantia*

Wild balsam-apple, Balsampear

Droseraceae

Drosera capillaris

Pink sundew

Ericaceae

Bejaria racemosa

Tarflower

Gaylussacia dumosa

Dwarf black-huckleberry, Dwarf huckleberry

Lyonia fruticosa

Coastal plain staggerbush

Lyonia lucida

Fetterbush

Vaccinium darrowii

Darrow's blueberry

Vaccinium myrsinites

Shiny blueberry

Euphorbiaceae

Chamaesyce hirta

Hairy spurge, Pillpod sandmat

Chamaesyce hypericifolia

Eyebane, Graceful sandmat

Chamaesyce hyssopifolia

Eyebane, Hyssopleaf sandmat

Croton glandulosus

Vente conrigo

Euphorbia polyphylla

Pineland euphorbia, Lesser Florida spurge

E *Phyllanthus urinaria*

Chamber bitter

Poinsettia cyathophora

Paintedleaf, Fire-on-the-mountain

Stillingia sylvatica

Queensdelight

Fabaceae

E *Abrus precatorius*

Rosary-pea, Crab-eyes

E, X *Acacia auriculiformis*

Earleaf acacia

E *Alysicarpus vaginalis*

White moneywort

Chamaecrista fasciculata

Partridge pea

Chamaecrista nictitans var. *aspera*

Hairy partridge-pea

E *Crotalaria lanceolata*

Lanceleaf rattlebox

E *Crotalaria pallida* var. *obovata*

Smooth rattlebox

Crotalaria rotundifolia

Rabbitbells

Desmodium incanum

Beggar's-ticks

E *Desmodium triflorum*

Threeflower ticktrefoil

Galactia eliottii

Elliott's milkpea

Galactia regularis

Eastern milkpea

Galactia volubilis

Downy milkpea

E *Indigofera spicata*

Creeping indigo, Trailing indigo

E *Macroptilium lathyroides*

Wild-bean, Wild bushbean

<i>Mimosa quadrivalvis</i> var. <i>floridana</i>	Florida sensitive brier
<i>Stylosanthes hamata</i>	Pencilflower, Cheesytoes
<i>Vigna luteola</i>	Cow-pea, Hairypod cowpea
<u>Fagaceae</u>	
<i>Quercus geminata</i>	Sand live oak
<i>Quercus laurifolia</i>	Laurel oak, Diamond oak
<i>Quercus minima</i>	Dwarf live oak
<i>Quercus myrtifolia</i>	Myrtle oak
<u>Gentianaceae</u>	
<i>Sabatia grandiflora</i>	Largeflower rosegentian
<u>Haloragidaceae</u>	
<i>Proserpinaca pectinata</i>	Mermaid weed, Combleaf mermaidweed
<u>Lamiaceae</u>	
<i>Piloblephis rigida</i>	Wild pennyroyal
<i>Trichostema dichotomum</i>	Forked bluecurls
<u>Lauraceae</u>	
<i>Cassipoua filiformis</i>	Lovevine, Devil's gut
<i>Persea palustris</i>	Swamp bay
<u>Lythraceae</u>	
E <i>Cuphea carthagenensis</i>	Colombian waxweed
<u>Magnoliaceae</u>	
E <i>Magnolia grandiflora</i>	Southern magnolia
<i>Magnolia virginiana</i>	Sweet-bay
<u>Malvaceae</u>	
<i>Hibiscus furcellatus</i>	Lindenleaf rosemallow
<i>Sida acuta</i>	Common wireweed, Common fanpetals
<i>Sida rhombifolia</i>	Cuban jute, Indian hemp
E <i>Urena lobata</i>	Caesarweed
<u>Melastomataceae</u>	
E, X <i>Melastoma malabathricum</i>	Nuttall's meadowbeauty Straits Rhododendron, Malabar melastome
<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, X <i>Rhodomyrtus tomentosa</i>	Downy myrtle, Rose myrtle
E <i>Syzygium jambos</i>	Rose-apple, Malabar-plum
<u>Onagraceae</u>	
<i>Gaura angustifolia</i>	Southern gaura, Southern beeblossum

Ludwigia clata
Ludwigia linifolia
Ludwigia maritima
Ludwigia microcarpa
Ludwigia octovalvis

Winged primrosewillow
Southeastern primrosewillow
Seaside primrosewillow
Smallfruit primrosewillow
Mexican primrosewillow

Oxalidaceae

Oxalis corniculata

Lady's-sorrel, Common yellow woodsorrel

Passifloraceae

Passiflora suberosa

Corkstem passionflower

Polygalaceae

Polygala grandiflora

Candyweed, Showy milkwort

Polygala lutea

Orange milkwort

Polygala nana

Candyroot

Polygala rugelii

Big yellow milkwort

Polygala setacea

Coastalplain milkwort

Polygonaceae

Polygonella ciliata

Hairy jointweed

Polygonella polygama

Wideleaf October flower

Polygonum hydropiperoides

Mild water-pepper, Swamp smartweed

Rosaceae

Rubus trivialis

Southern dewberry

Rubiaceae

Diodia virginiana

Buttonweed, Virginia buttonweed

E *Hedyotis corymbosa*

Flattop mille grains

Hedyotis uniflora

Clustered mille grain

E *Mitracarpus hirtus*

Tropical girdlepod

E *Psychotria nervosa*

Shiny-leaved wild-coffee

E *Richardia brasiliensis*

Tropical Mexican clover

E *Spermacoce asurgens*

Woodland false buttonweed

E *Spermacoce verticillata*

Shrubby false buttonweed

Salicaceae

Salix caroliniana

Coastal Plain willow

Scrophulariaceae

Agalinis fasciculata

Beach false foxglove

Agalinis linifolia

Flaxleaf false foxglove

Buchnera americana

American bluehearts

Gratiola hispida

Rough hedgeyssop

Mecardonia acuminata subsp. *peninsularis*

Axiflower

Scoparia dulcis

Sweetbroom, Licoriceweed

Seymeria pectinata

Piedmont blacksenne

Theaceae

Gordonia lasianthus

Loblolly bay

Urticaceae

Boehmeria cylindrica

Button-hemp, False nettle, Bog hemp

Verbenaceae

Phyla nodiflora

Frog fruit, Turkey tangle fogfruit, Capeweed

Violaceae

Viola primulifolia

Primrose-leaved violet

Vitaceae

Parthenocissus quinquefolia

Virginia-creeper, Woodbine

Vitis rotundifolia

Muscadine

Gymnosperms

Pinaceae

Pinus clausa

Sand pine

Pinus elliotii var. *densa*

South Florida slash pine

Monocots

Alismataceae

Sagittaria lancifolia

Bulltongue arrowhead

Areaceae

Sabal palmetto

Cabbage palm

Serenoa repens

Saw palmetto

E *Syagrus romanzoffiana*

Queen palm

Bromeliaceae

Tillandsia paucifolia

Twisted wild-pine, Potbelly airplant

Tillandsia recurvata

Ball-moss

Tillandsia usneoides

Spanish-moss

Tillandsia utriculata

Giant wild-pine, Giant airplant

Commelinaceae

E *Commelina diffusa*

Common dayflower

E *Murdannia nudiflora*

Nakedstem dewflower

Cyperaceae

Bulbostylis ciliatifolia

Densetuft hairsedge

Cyperus croceus

Baldwin's flatsedge

Cyperus haspan

Haspan flatsedge

Cyperus ligularis

Swamp flatsedge

Cyperus polystachyos

Manyspike flatsedge

Cyperus surinamensis

Tropical flatsedge

Eleocharis geniculata

Canada spikerush

Fimbristylis spadiacea

Marsh fimbry

Fuirena scirpoides

Southern umbrellasedge

Rhynchospora cephalantha

Bunched beaksedge

Rhynchospora ciliaris

Fringed beaksedge

Rhynchospora divergens

Spreading beaksedge

Rhynchospora fascicularis

Fascicled Beaksedge

Rhynchospora latifolia

Giant whitetop

Rhynchospora nitens

Shortbeak beaksedge

Rhynchospora plumosa

Plumed beaksedge

Rhynchospora tracyi

Tracy's beaksedge

<i>Scleria baldwinii</i>	Baldwin's nutrush
<i>Scleria ciliata</i>	Fringed nutrush
<i>Scleria triglomerata</i>	Whip nutrush
<u>Eriocaulaceae</u>	
<i>Eriocaulon decangulare</i>	Tenangle 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
<u>Iridaceae</u>	
<i>Sisyrinchium nashii</i>	Nash's blueeyed-grass
<u>Juncaceae</u>	
<i>Juncus marginatus</i>	Shore rush, Grassleaf rush
<u>Liliaceae</u>	
<i>Aletris lutea</i>	Yellow colicroot
<i>Lilium catesbaei</i>	Catesby's lily, Pine lily
<i>Schoenocaulon dubium</i>	Feather-shank, Florida feathershank
<i>Schoenolirion albiflorum</i>	Sunnybells, White sunnybell
<u>Musaceae</u>	
CE <i>Musa xparadisica</i>	Common banana
<u>Orchidaceae</u>	
<i>Calopogon barbatus</i>	Bearded grasspink
<i>Habenaria floribunda</i>	Rein orchid, Toothpetal false reinorchid
<i>Pogonia ophioglossoides</i>	Rose pogonia, Snakemouth orchid
<u>Poaceae</u>	
<i>Amphicarpum muhlenbergianum</i>	Blue-maidencane
<i>Andropogon brachystachyus</i>	Shortspike bluestem
<i>Andropogon glomeratus</i> var. <i>hirsutior</i>	Hairy bushy bluestem
<i>Andropogon glomeratus</i> var. <i>pumilus</i>	Common bushy bluestem
<i>Andropogon ternarius</i>	Splitbeard bluestem
<i>Andropogon virginicus</i> var. <i>glaucus</i>	Chalky bluestem
<i>Aristida beyrichiana</i>	Southern wiregrass
<i>Aristida palustris</i>	Longleaf threeawn
<i>Aristida purpurascens</i>	Arrowfeather threeawn
<i>Aristida rhizomophora</i>	Florida threeawn
<i>Aristida spiciformis</i>	Bottlebrush threeawn
<i>Axonopus fissifolius</i>	Common carpetgrass
<i>Cenchrus incertus</i>	Coastal sandbur
<i>Ctenium aromaticum</i>	Toothache grass
E <i>Cynodon dactylon</i>	Bermuda grass
E <i>Dactyloctenium aegyptium</i>	Crow's-foot grass, Durban crowfootgrass
<i>Dichantheium aciculare</i>	Needleleaf witch grass
<i>Dichantheium ensifolium</i>	Cypress witchgrass

<i>Dichanthelium erectifolium</i>	Erectleaf witchgrass
<i>Dichanthelium leucothrix</i>	Rough witchgrass
<i>Dichanthelium ovale</i>	Eggleaf witchgrass
<i>Dichanthelium portoricense</i>	Hemlock witchgrass
<i>Dichanthelium strigosum</i> var. <i>glabrescens</i>	Glabrescent roughhair witchgrass
<i>Digitaria ciliaris</i>	Southern crabgrass
<i>Digitaria villosa</i>	Shaggy crabgrass
E <i>Eragrostis atrovirens</i>	Thalia love grass
<i>Eragrostis eliottii</i>	Elliott's love grass
<i>Eragrostis virginica</i>	Coastal love grass
E <i>Eremochloa ophiuroides</i>	Centipede grass
<i>Eustachys petraea</i>	Common fingergrass, Pinewoods fingergrass
<i>Panicum hemitomon</i>	Maidencane
<i>Panicum hians</i>	Gaping panicum
E <i>Panicum repens</i>	Torpedo grass
<i>Panicum tenerum</i>	Bluejoint panicum
<i>Panicum verrucosum</i>	Warty panicum, Warty panicgrass
<i>Panicum virgatum</i>	Switchgrass
<i>Paspalum conjugatum</i>	Sour paspalum, Hillograss
<i>Paspalum floridanum</i>	Florida paspalum
E <i>Paspalum notatum</i>	Bahia grass
<i>Paspalum praecox</i>	Early paspalum
<i>Paspalum setaceum</i>	Thin paspalum
E <i>Pennisetum purpureum</i>	Napier grass, Elephantgrass
<i>Phragmites australis</i>	Common reed
<i>Saccharum giganteum</i>	Sugarcane plumegrass
E <i>Sacciolepis indica</i>	Indian cupscale
<i>Sacciolepis striata</i>	American cupscale
<i>Schizachyrium stoloniferum</i>	
<i>Setaria parviflora</i>	Knotroot foxtail, Yellow bristlegrass
<i>Sorghastrum secundum</i>	Lopsided Indiangrass
E <i>Sporobolus indicus</i> var. <i>pyramidalis</i>	West Indian dropseed
E <i>Stenotaphrum secundatum</i>	St. Augustine grass
<u>Smilacaceae</u>	
<i>Smilax auriculata</i>	Earleaf greenbrier
<i>Smilax laurifolia</i>	Catbrier, Laurel greenbrier, Bamboo vine
<u>Xyridaceae</u>	
<i>Xyris ambigua</i>	Coastalplain yelloweyed grass
<i>Xyris brevifolia</i>	Shortleaf yelloweyed grass
<i>Xyris caroliniana</i>	Carolina yelloweyed grass
<i>Xyris eliottii</i>	Elliott's yelloweyed grass
E <i>Xyris jupicai</i>	Richard's yelloweyed grass
<i>Xyris smalliana</i>	Small's yelloweyed grass
<u>Blechnaceae</u>	
<i>Blechnum serrulatum</i>	Swamp fern, Toothed midorus fern
<i>Woodwardia virginica</i>	Virginia chain fern

Pteridophytes

Dennstaedtiaceae

- Pteridium aquilinum* var. *caudatum* Lacy braken fern
Pteridium aquilinum var. *pseudocaudatum* Tailed braken fern

Lycopodiaceae

- Lycopodiella caroliniana* Slender club-moss

Osmundaceae

- Osmunda cinnamomea* Cinnamon fern
Osmunda regalis var. *spectabilis* Royal fern

Polypodiaceae

- Phlebodium aureum* Golden polypody

Schizaceae

- E *Lygodium microphyllum* Small-leaf climbing fern

E = Not Native to the site (exotic)

CE = Cultivated exotic

X = Extirpated from the site

Scientific Name

Xyris caroliniana
Xyris elliotii
Xyris jupical
Xyris smalliana

X = Extirpated

Common Names

Carolina yellowed grass
 Elliott's yellowed grass
 Richard's yellowed grass
 Small's yellowed grass

Origin	N > N Z
Federal Status	
State Status	
FNAI Status	
IRC Status	
FL EPPC	
Depression Marsh	x x
Disturbed Dry	
Disturbed Wet	
Mesic Flatwoods	x
Scrubby Flatwoods	x
Wet Flatwoods	x x

Origin	FNAI Status
N = Native	S1 = Critically Imperiled in Florida
A = Exotic (non native)	S2 = Imperiled in Florida
CA = Cultivated Exotic	S3 = Very rare or local throughout its range in Florida
Federal Status	IRC status
T = Threatened	SF1 = Critically Imperiled in South Florida (SF)
E = Endangered	Florida EPPC Status
State Status	I = species that are invading and disrupting native plant communities
T = Threatened	II = species that have shown a potential to disrupt native plant communities
E = Endangered	

Table 4:
**The Rare Vascular Plants of
 Danforth**

CR 714/Mapp Rd., Palm City, Florida

Field Data Compiled By:
 Steven W. Woodmansee, Sandra A. Vardaman, and Chuck McCartney
 The Institute for Regional Conservation
 Miami, FL

Various dates 1998-2002

Scientific Name	Common Names	Federal Status	State Status	FNAI Status	IRC Status	Population Size Range
<i>Aristida rhizomophora</i>	Florida threeawn			S3		101-1000
<i>Aster reticulatus</i>	Pinebarren aster, Whitetop aster				SF1	11-100
<i>Aster tortifolius</i>	Dixie aster, Whitetop aster				SF1	11-100
<i>Lilium catesbaei</i>	Catesby's lily, Pine lily		T			11-100
<i>Lycopodiella caroliniana</i>	Slender club-moss				SF1	11-100
<i>Marshallia tenuifolia</i>	Barbara's-buttons, Grassleaf Barbara's button				SF1	11-100
<i>Panicum verrucosum</i>	Warty panicum, Warty panicgrass				SF1	11-100
<i>Pogonia ophioglossoides</i>	Rose pogonia, Snakemouth orchid		T		SF1	11-100
<i>Schoenocaulon dubium</i>	Feather-shank, Florida feathershank				SF1	2-10
<i>Tillandsia utriculata</i>	Giant wild-pine, Giant airplant		E			11-100
<i>Viola primulifolia</i>	Primrose-leaved violet				SF1	2-10

Federal Status	FNAI Status
T = Threatened	S1 = Critically imperiled in Florida
E = Endangered	S2 = Imperiled in Florida
State Status	S3 = Very rare or local throughout its range in Florida
T = Threatened	IRC status
E = Endangered	SF1 = Critically Imperiled in South Florida (SF)

Table 5:

The Vascular Plants of
Hawk's Hammock Park

7201 Markel St., Palm City, Florida

Field Data Compiled By:

Steven W. Woodmansee, Sandra A. Vardaman, and Chuck McCartney
The Institute for Regional Conservation
Miami, FL

Various dates 1998-2002

Dicots

<u>Acanthaceae</u>	<i>Elytraria caroliniensis</i> var. <i>angustifolia</i>	Narrowleaf Carolina scalystem
<u>Amaranthaceae</u>		
E	<i>Amaranthus blitum</i>	Purple amaranth
<u>Anacardiaceae</u>		
E	<i>Schinus terebinthifolius</i>	Brazilian-pepper
<u>Annonaceae</u>		
	<i>Asimina reticulata</i>	Common pawpaw, Netted pawpaw
<u>Apiaceae</u>		
	<i>Centella asiatica</i>	Coinwort, Spadeleaf
	<i>Oxypolis filiformis</i>	Water dropwort, Water cowbane
<u>Aquifoliaceae</u>		
	<i>Ilex cassine</i>	Dahoon holly, Dahoon
	<i>Ilex glabra</i>	Gallberry, Inkberry
<u>Asclepiadaceae</u>		
	<i>Asclepias pedicellata</i>	Savannah milkweed
	<i>Sarcostemma clausum</i>	Whitevine, White twinevine
<u>Asteraceae</u>		
	<i>Ambrosia artemisiifolia</i>	Common ragweed
	<i>Aster reticulatus</i>	Pinebarren aster, Whitetop aster
	<i>Aster tortifolius</i>	Dixie aster, Whitetop aster
	<i>Baccharis halimifolia</i>	Groundsel tree, Sea-myrtle
	<i>Bidens alba</i> var. <i>radiata</i>	Spanish-needles
	<i>Bidens mitis</i>	Smallfruit beggarticks
	<i>Bigelovia nudata</i> subsp. <i>australis</i>	Southern pineland rayless goldenrod
	<i>Carpophorus carnosus</i>	Pineland chaffhead
	<i>Carpophorus odoratissimus</i>	Vanillaleaf
	<i>Chaptalia tomentosa</i>	Woolly sunbonnets, Pineland daisy

Cirsium horridulum
Conoclinium coelestinum
Conyza canadensis var. *pusilla*
Coreopsis floridana
Eclipta prostrata
Elephantopus elatus
Emilia fosbergii
Erechtites hieracifolia
Erigeron vernus
Eupatorium capillifolium
Eupatorium leptophyllum
Eupatorium mohrii
Euthamia caroliniana
Liatris tenuifolia
Lygodesmia aphylla
Marshallia tenuifolia
Mikania scandens
Pityopsis graminifolia
Pluchea foetida
Pluchea rosea
Pterocaulon pycnostachyum
Rudbeckia hirta
Solidago fistulosa
Solidago gigantea
Solidago odora var. *chapmanii*
Solidago stricta
 E *Vernonia cinerea*
 E *Wedelia trilobata*

Buddleiaceae

Polypremum procumbens

Cabombaceae

Cabomba caroliniana

Campanulaceae

Lobelia glandulosa

Cistaceae

Lechea deckertii

Clusiaceae

Hypericum brachyphyllum

Hypericum cistifolium

Hypericum fasciculatum

Hypericum hypericoides

Hypericum mutilum

Hypericum tetrapetalum

Cucurbitaceae

E *Momordica charantia*

Purple thistle
 Blue mistflower
 Dwarf Canadian horseweed
 Florida tickseed
 False-daisy
 Florida elephant's-foot, Tall elephant's-foot
 Florida tasselflower
 Fireweed, American burnweed
 Early whitetop fleabane
 Dog-fennel
 Falsefennel
 Mohr's thoroughwort
 Slender goldenrod
 Shortleaf gayfeather
 Roserush
 Barbara's-buttons, Grassleaf Barbara's button,
 Climbing hempweed, Climbing hempvine
 Narrowleaf silkgrass
 Stinking camphorweed
 Rosy camphorweed
 Blackroot
 Blackeyed susan
 Pinebarren goldenrod
 Giant goldenrod
 Chapman's goldenrod
 Narrow-leaved goldenrod, Wand goldenrod
 Little ironweed
 Creeping wedelia, Creeping oxeye

Rustweed, Juniperleaf

Carolina fanwort

Glade lobelia

Deckert's pinweed

Coastalplain St. John's-wort

Roundpod St. John's-wort

Sandweed, Peelbark St. John's-wort

St. Andrew's-cross

Dwarf St. John's-wort

Fourpetal St. John's-wort

Wild balsam-apple, Balsampear

Droseraceae

Drosera capillaris

Pink sundew

Ericaceae

Bejaria racemosa

Tarflower

Gaylussacia dumosa

Dwarf black-huckleberry, Dwarf huckleberry

Lyonia fruticosa

Coastal plain staggerbush

Lyonia lucida

Fetterbush

Vaccinium darrowii

Darrow's blueberry

Vaccinium myrsinites

Shiny blueberry

Euphorbiaceae

Chamaesyce hirta

Hairy spurge, Pillpod sandmat

Chamaesyce hypericifolia

Eyebane, Graceful sandmat

Croton glandulosus

Vente commigo

Stillingia aquatica

Corkwood, Water toothleaf

Fabaceae

E *Abrus precatorius*

Rosary-pea, Crab-eyes

Chamaecrista fasciculata

Partridge pea

Chamaecrista nictitans var. *aspera*

Hairy partridge-pea

E *Crotalaria lanceolata*

Lanceleaf rattlebox

E *Crotalaria pallida* var. *obovata*

Smooth rattlebox

Crotalaria rotundifolia

Rabbitbells

Desmodium incanum

Beggar's-ticks

E *Desmodium triflorum*

Threeflower ticktrefoil

E *Galactia eliottii*

Elliott's milkpea

E *Indigofera hirsuta*

Hairy indigo

E *Macroptilium lathyroides*

Wild-bean, Wild bushbean

Mimosa quadrivalvis var. *floridana*

Florida sensitive brier

Vigna luteola

Cow-pea, Hairy pod cowpea

Fagaceae

Quercus laurifolia

Laurel oak, Diamond oak

Quercus minima

Dwarf live oak

Gentianaceae

Sabatia grandiflora

Largeflower rosegentian

Haloragaceae

Proserpinaca pectinata

Mermaid weed, Combleaf mermaidweed

Lamiaceae

Hyptis alata

Musky mint, Clustered bushmint

Piloblephis rigida

Wild pennyroyal

Lauraceae

Cassythia filiformis

Lovevine, Devil's gut

Persea palustris

Swamp bay

Lentibulariaceae

Pinguicula lutea

Yellow butterwort

Utricularia juncea

Southern bladderwort

Utricularia purpurea

Eastern purple bladderwort

<i>Utricularia subulata</i>	Zigzag bladderwort
<u>Loganiaceae</u>	
<i>Mitreola petiolata</i>	Miterwort, Lax hornpod
<u>Lythraceae</u>	
E <i>Cuphea carthagenensis</i>	Colombian waxweed
<i>Lythrum alatum</i> var. <i>lanceolatum</i>	Winged loosestrife
<u>Magnoliaceae</u>	
<i>Magnolia virginiana</i>	Sweet-bay
<u>Malvaceae</u>	
<i>Sida acuta</i>	Common wireweed, Common fanpetals
E <i>Urena lobata</i>	Caesarweed
<u>Melastomataceae</u>	
<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>Myricaceae</u>	
<i>Myrica cerifera</i>	Wax myrtle, Southern Bayberry
<u>Myrtaceae</u>	
E <i>Melaleuca quinquenervia</i>	Punktree
E, X <i>Psidium cattleianum</i>	Strawberry guava
<u>Onagraceae</u>	
<i>Ludwigia alata</i>	Winged primrosewillow
<i>Ludwigia linifolia</i>	Southeastern primrosewillow
<i>Ludwigia maritima</i>	Seaside primrosewillow
<i>Ludwigia octovalvis</i>	Mexican primrosewillow
E <i>Ludwigia peruviana</i>	Peruvian primrosewillow
<i>Ludwigia repens</i>	Creeping primrosewillow
<u>Phytolaccaceae</u>	
<i>Phytolacca americana</i>	American pokeweed
<u>Polygalaceae</u>	
<i>Polygala cruciata</i>	Drumheads
<i>Polygala cymosa</i>	Tall pinebarren milkwort
<i>Polygala lutea</i>	Orange milkwort
<i>Polygala rugelii</i>	Big yellow milkwort
<i>Polygala setacea</i>	Coastalplain milkwort
<u>Polygonaceae</u>	
<i>Polygonum hydropiperoides</i>	Mild water-pepper, Swamp smartweed
<u>Rubiaceae</u>	
<i>Cephalanthus occidentalis</i>	Common buttonbush
<i>Diodia teres</i>	Poor joe, Rough buttonweed
<i>Diodia virginiana</i>	Buttonweed, Virginia buttonweed

- E *Hedyotis corymbosa*
- Hedyotis uniflora*
- E *Richardia scabra*
- Spermacoce assurgens*
- E *Spermacoce verticillata*

Salicaceae

Salix caroliniana

Scrophulariaceae

Agalinis tinifolia
Bacopa caroliniana
Bacopa monnieri
Buchnera americana
Gratiola hispida
Gratiola ranosa
Scoparia dulcis

Solanaceae

E. X *Lycopersicon esculentum*

Theaceae

Gordonia lasianthus

Verbenaceae

E *Lantana camara*
Phyla nodiflora

Violaceae

Viola lanceolata
Viola primulifolia

Vitaceae

Vitis rotundifolia

Flattop mille grains
 Clustered mille grain
 Rough Mexican clover
 Woodland false buttonweed
 Shrubby false buttonweed

Coastal Plain willow

Flaxleaf false foxglove
 Lemon hyssop, Lemon bacopa, Blue waterhyssop
 Water hyssop, Herb-of-grace
 American bluehearts
 Rough hedgehyssop
 Branched hedgehyssop
 Sweetbroom, Licoriceweed

Tomato, Garden Tomato

Loblolly bay

Shrubverbena
 Frog fruit, Turkey tangle fogfruit, Capeweed

Bog white violet
 Primrose-leaved violet

Muscadine

Gymnosperms

Pinaceae

Pinus elliotii var. *densa*

South Florida slash pine

Monocots

Alismataceae

Sagittaria graminea
Sagittaria lancifolia

Grassy arrowhead
 Bulltongue arrowhead

Amaryllidaceae

Hymenocallis palmeri

Alligatorlily

Areaceae

Sabal palmetto
Serenoa repens

Cabbage palm
Saw palmetto

Bromeliaceae

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

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

Burmanniaceae

Burmannia biflora

Bluethread

Commelinaceae

E *Commelina diffusa*
E *Murdannia nudiflora*

Common dayflower
Nakedstem dewflower

Cyperaceae

Bulbostylis ciliatifolia
Cladium jamaicense
E *Cyperus croceus*
Cyperus haspan
Cyperus ligularis
Cyperus odoratus
Cyperus polystachyos
Cyperus retrorsus
Cyperus surinamensis
Eleocharis cellulosa
Fuirena scirpoidea
E *Lipocarpus aristulata*
Rhynchospora cephalantha
Rhynchospora ciliaris
Rhynchospora colorata
Rhynchospora divergens
Rhynchospora fascicularis
Rhynchospora inundata
Rhynchospora latifolia
Rhynchospora microcarpa
Rhynchospora odorata
Rhynchospora tracyi
Scleria baldwinii
Scleria triglomerata

Densetuft hairsedge
Saw-grass, Jamaica swamp sawgrass
Baldwin's flatsedge
Haspan flatsedge
Swamp flatsedge
Fragrant flatsedge
Manyspike flatsedge
Pinebarren flatsedge
Tropical flatsedge
Gulf Coast spikerush
Southern umbrellasedge
Awned halfchaff sedge
Bunched beaksedge
Fringed beaksedge
Starrush whitetop
Spreading beaksedge
Fasciated Beaksedge
Narrowfruit horned beaksedge
Giant whitetop
Southern beaksedge
Fragrant beaksedge
Tracy's beaksedge
Baldwin's nutrush
Whip nutrush

Eriocaulaceae

Eriocaulon compressum
Eriocaulon decangulare
Lachnocaulon anceps
Syngonanthus flavidulus

Flattened pipewort
Tenangle pipewort
Whitehead bogbutton
Yellow hatpins

<u>Haemodoraceae</u>		
<i>Lachnanthes caroliniana</i>		Bloodroot, Carolina redroot
<u>Hypoxidaceae</u>		
<i>Hypoxis juncea</i>		Fringed Yellow stargrass
<u>Juncaceae</u>		
<i>Juncus marginatus</i>		Shore rush, Grassleaf rush
<i>Juncus polycephalos</i>		Manyhead rush
<i>Juncus scirpoides</i>		Needlepod rush
<u>Lemnaceae</u>		
E <i>Spirodela punctata</i>		Dotted duckweed
<i>Wolffiella gladiata</i>		Bog-mat, Florida mudmidget
<u>Liliaceae</u>		
<i>Aletris lutea</i>		Yellow colicroot
<i>Lilium catesbaei</i>		Catesby's lily, Pine lily
<i>Schoenolirion albiflorum</i>		Sunnybells, White sunnybell
<u>Orchidaceae</u>		
<i>Calopogon barbatus</i>		Bearded grasspink
<i>Habenaria floribunda</i>		Rein orchid, Toothpetal false reinorchid
<i>Habenaria nivea</i>		Snowy orchid
<u>Poaceae</u>		
<i>Amphicarpum muhlenbergianum</i>		Blue-maidencane
<i>Andropogon brachystachyus</i>		Shortspike bluestem
<i>Andropogon glomeratus</i> var. <i>glaucopsis</i>		Purple bluestem
<i>Andropogon glomeratus</i> var. <i>hirsutior</i>		Hairy bushy bluestem
<i>Andropogon glomeratus</i> var. <i>pumilus</i>		Common bushy bluestem
<i>Andropogon ternarius</i>		Splitbeard bluestem
<i>Andropogon virginicus</i> var. <i>glaucus</i>		Chalky bluestem
<i>Aristida beyrichiana</i>		Southern wiregrass
<i>Aristida palustris</i>		Longleaf threeawn
<i>Aristida purpurascens</i> var. <i>virgata</i>		Florida threeawn
<i>Aristida rhizomophora</i>		Bottlebrush threeawn
<i>Aristida spiciformis</i>		Common carpetgrass
<i>Axonopus fissifolius</i>		Big carpetgrass
<i>Axonopus furcatus</i>		Wrinkled jointtail grass
<i>Coelorachis rugosa</i>		Toothache grass
<i>Ctenium aromaticum</i>		Crow's-foot grass, Durban crowfootgrass
E <i>Dactyloctenium aegyptium</i>		Cypress witchgrass
<i>Dichanthelium ensifolium</i>		Shortleaf cypress witchgrass
<i>Dichanthelium ensifolium</i> var. <i>breve</i>		Erectleaf witchgrass
<i>Dichanthelium erectifolium</i>		Rough witchgrass
<i>Dichanthelium leucothrix</i>		Hemlock witchgrass
<i>Dichanthelium portoricense</i>		Glabrescent roughhair witchgrass
<i>Dichanthelium strigosum</i> var. <i>glabrescens</i>		Southern crabgrass
<i>Digitaria ciliaris</i>		Thalia love grass
E <i>Eragrostis atrovirens</i>		Elliott's love grass
<i>Eragrostis eliottii</i>		

<i>Eragrostis virginica</i>	Coastal love grass
E <i>Eremochloa ophiuroides</i>	Centipede grass
E <i>Eriochloa polystachya</i>	Caribgrass
<i>Eustachys petraea</i>	Common fingergrass, Pinewoods fingergrass
E <i>Imperata cylindrica</i>	Congongrass, Cogongrass
<i>Leersia hexandra</i>	Southern cutgrass
<i>Muhlenbergia capillaris</i>	Muhlygrass, Hairawmuhly
<i>Panicum hemitomon</i>	Maidencane
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>Paspalum conjugatum</i>	Sour paspalum, Hilograss
E <i>Paspalum notatum</i>	Bahia grass
<i>Paspalum pleostachyum</i>	Tropical paspalum
<i>Paspalum praecox</i>	Early paspalum
<i>Paspalum setaceum</i>	Thin paspalum
E <i>Paspalum urvillei</i>	Vasey grass
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 scoparium</i>	Little bluestem
<i>Setaria parviflora</i>	Knotroot foxtail, Yellow bristlegrass
<i>Sorghastrum secundum</i>	Lopsided Indiangrass
E <i>Sporobolus indicus</i> var. <i>pyramidalis</i>	West Indian dropseed
<i>Sporobolus junceus</i>	Pineywoods dropseed
<u>Pontederiaceae</u>	
E <i>Eichhornia crassipes</i>	Common water-hyacinth
<i>Pontederia cordata</i>	Pickerelweed
<u>Smilacaceae</u>	
<i>Smilax auriculata</i>	Earleaf greenbrier
<i>Smilax laurifolia</i>	Catbrier, Laurel greenbrier, Bamboo vine
<u>Typhaceae</u>	
<i>Typha domingensis</i>	Southern cat-tail
<u>Xyridaceae</u>	
<i>Xyris ambigua</i>	Coastalplain yelloweyed grass
<i>Xyris brevifolia</i>	Shortleaf yelloweyed grass
<i>Xyris caroliniana</i>	Carolina yelloweyed grass
<i>Xyris elliotii</i>	Elliott's yelloweyed grass
<i>Xyris fimbriata</i>	Fringed yelloweyed grass
<i>Xyris flabelliformis</i>	Savannah yelloweyed grass
E <i>Xyris jupicai</i>	Richard's yelloweyed grass

Pteridophytes

<u>Blechnaceae</u>	
<i>Blechnum serrulatum</i>	Swamp fern, Toothed midsorus fern
<i>Woodwardia virginica</i>	Virginia chain fern
<u>Dennstaedtiaceae</u>	
<i>Pteridium aquilinum</i> var. <i>caudatum</i>	Lacy braken fern
<i>Pteridium aquilinum</i> var. <i>pseudocaudatum</i>	Tailed braken fern
<u>Lycopodiaceae</u>	
<i>Lycopodiella appressa</i>	Southern club-moss
<i>Lycopodiella caroliniana</i>	Slender club-moss
<i>Lycopodiella cernua</i>	Nodding club-moss
<u>Osmundaceae</u>	
<i>Osmunda cinnamomea</i>	Cinnamon fern
<i>Osmunda regalis</i> var. <i>spectabilis</i>	Royal fern
<u>Polypodiaceae</u>	
<i>Phlebodium aureum</i>	Golden polypody
<u>Salviniaceae</u>	
E <i>Salvinia minima</i>	Water spangles
<u>Schizaceae</u>	
E <i>Lygodium microphyllum</i>	Small-leaf climbing fern
<u>Thelypteridaceae</u>	
<i>Thelypteris interrupta</i>	Interrupted maiden fern; Hottentot fern
<i>Thelypteris kunthii</i>	Southern shield fern
<u>Vittariaceae</u>	
<i>Vittaria lineata</i>	Shoestring fern

E = Not Native to the site

X = Extirpated from the site

Scientific Name	Common Names	Origin	Federal Status	State Status	FNAI Status	IRC Status	FL EPPC	Basin Marsh	Bayhead	Depression Marsh	Disturbed Dry	Disturbed Wet	Mesic Flatwoods	Wet Flatwoods
<i>Leersia hexandra</i>	Southern cutgrass	N						X						
<i>Liatris tenuifolia</i>	Shortleaf gayfeather	N												
<i>Lilium catesbaei</i>	Catesby's lily, Pine lily	N		-1									X	X
<i>Lipocarpha anstulata</i>	Awned hairchaff sedge	A										X		
<i>Lobelia glandulosa</i>	Glade lobelia	N						X					X	
<i>Ludwigia alata</i>	Winged primrosewillow	N						X						
<i>Ludwigia linifolia</i>	Southeastern primrosewillow	N						X						
<i>Ludwigia maritima</i>	Seaside primrosewillow	N						X						
<i>Ludwigia octovalvis</i>	Mexican primrosewillow	N						X						
<i>Ludwigia peruviana</i>	Peruvian primrosewillow	N						X						
<i>Ludwigia repens</i>	Creeping primrosewillow	A							X					
<i>Lycopersicon esculentum, X</i>	Tomato, Garden Tomato	N							X					
<i>Lycopodiella appressa</i>	Southern club-moss	N						X						
<i>Lycopodiella caroliniana</i>	Slender club-moss	N						X						
<i>Lycopodiella cernua</i>	Nodding club-moss	N						X						
<i>Lygodesmia aphylla</i>	Roserush	N						X						
<i>Lygodium microphyllum</i>	Small-leaf climbing fern	A						X						
<i>Lyonia lucida</i>	Fettersh	N						X						
<i>Lyonia fruticosa</i>	Coastal plain staggerbush	N						X						
<i>Lythrum alatum var. lanceolatum</i>	Winged loosestrife	N						X						
<i>Macropitium latyroides</i>	Wild-bean, Wild bushbean	A						X						
<i>Magnolia virginiana</i>	Sweet-bay	N						X						
<i>Marshallia tenuifolia</i>	Barbarts-buttons, Grassleaf Barbara's button	N				SF1			X					
<i>Melaleuca quinquevervia</i>	Punktree	A												
<i>Mikania scandens</i>	Climbing hempweed, Climbing hempvine	N												
<i>Mimosa quadrivalvis var. floridana</i>	Florida sensitive brier	N												
<i>Mitreola petiolata</i>	Miterwort, Lax hornpod	N						X						
<i>Momordica charantia</i>	Wild balsam-apple, Balsampear	A						X						
<i>Muhlenbergia capillaris</i>	Muhlygrass, Hairwammuhly	N						X						
<i>Murdannia nudiflora</i>	Nakedstem dewflower	A						X						
<i>Myrica centifera</i>	Wax myrtle, Southern Bayberry	N						X						
<i>Nymphoides aquatica</i>	Big floatingheart	N						X						
<i>Osmonda cinnamomea</i>	Cinnamon fern	N						X						
<i>Osmonda regalis var. spectabilis</i>	Royal fern	N						X						
<i>Oxypholis filiformis</i>	Water dropwort, Water cowbane	N						X						
<i>Panicum hemitomon</i>	Malden cane	N						X						
<i>Panicum maximum</i>	Guineagrass	A						X						

Scientific Name	Common Names	Origin	Federal Status	State Status	FNAI Status	IRC Status	FL EPPC	Basin Marsh	Bayhead	Depression Marsh	Disturbed Dry	Disturbed Wet	Mesic Flatwoods	Wet Flatwoods
<i>Rhynchospora cephalantha</i>	Bunched beaksedge	N											X	X
<i>Rhynchospora ciliaris</i>	Fringed beaksedge	N											X	X
<i>Rhynchospora colorata</i>	Starrush whitetop	N						X					X	X
<i>Rhynchospora divergens</i>	Spreading beaksedge	N									X		X	X
<i>Rhynchospora fascicularis</i>	Fascled Beaksedge	N									X		X	X
<i>Rhynchospora inundata</i>	Narrowfruit horned beaksedge	N										X	X	X
<i>Rhynchospora latifolia</i>	Giant whitetop	N						X		X			X	X
<i>Rhynchospora microcarpa</i>	Southern beaksedge	N						X		X			X	X
<i>Rhynchospora odorata</i>	Fragrant beaksedge	N						X		X			X	X
<i>Rhynchospora tracyi</i>	Tracy's beaksedge	N						X		X			X	X
<i>Richardia scabra</i>	Rough Mexican clover	A									X		X	X
<i>Rudbeckia hirta</i>	Blackeyed susan	N									X		X	X
<i>Sabal palmetto</i>	Cabbage palm	N						X					X	X
<i>Sabatia grandiflora</i>	Largeflower rosegentian	N							X				X	X
<i>Saccharum giganteum</i>	Sugarcane plumegrass	N						X					X	X
<i>Sacciolepis indica</i>	Indian cupscal	A								X			X	X
<i>Sacciolepis striata</i>	American cupscal	N									X		X	X
<i>Sagittaria graminea</i>	Grassy arrowhead	N						X					X	X
<i>Sagittaria lanifolia</i>	Bulltongue arrowhead	N									X		X	X
<i>Salix caroliniana</i>	Coastal Plain willow	N									X		X	X
<i>Salvinia minima</i>	Water spangles	A									X		X	X
<i>Sarcostemma clausum</i>	Whitevine, White twinevine	N						X			X		X	X
<i>Schinus terebinthifolius</i>	Brazilian-pepper	A									X		X	X
<i>Schizachyrium scoparium</i>	Little bluestem	N									X		X	X
<i>Schoenolimon albiflorum</i>	Sunnybells, White sunnybell	N						X			X		X	X
<i>Sciela baldwinii</i>	Baldwin's nutrush	N						X			X		X	X
<i>Sciela triglomerata</i>	Whip nutrush	N						X			X		X	X
<i>Scoparia dulcis</i>	Sweetroom, Licoriceweed	N									X		X	X
<i>Serenoa repens</i>	Saw palmetto	N						X			X		X	X
<i>Setaria parviflora</i>	Knotroot foxtail, Yellow bristlegass	N						X			X		X	X
<i>Sida acuta</i>	Common wireweed, Common fanpetals	N									X		X	X
<i>Smilax auriculata</i>	Earleaf greenbrier	N						X			X		X	X
<i>Smilax laurifolia</i>	Catbrier, Laurel greenbrier, Bamboo vine	N						X			X		X	X
<i>Smilago fistulosa</i>	Pinebarrren goldenrod	N									X		X	X
<i>Smilago gigantea</i>	Giant goldenrod	N									X		X	X
<i>Smilago odora</i> var. <i>chapmanii</i>	Chapman's goldenrod	N									X		X	X
<i>Solidago stricta</i>	Narrow-leaved goldenrod, Wand goldenrod	N									X		X	X
<i>Sorghastrum secundum</i>	Lopsided Indiangrass	N									X		X	X

Table 7:

The Rare Vascular Plants of
Hawk's Hammock Park

7201 Markel St., Palm City, Florida

Field Data Compiled By:
Steven W. Woodmansee, Sandra A. Vardaman, and Chuck McCartney
The Institute for Regional Conservation
Miami, FL

Various dates 1998-2002

Scientific Name	Common Names	Federal Status	State Status	FNAI Status	IRC Status	Population Size Range
<i>Anistida purpurascens</i> var. <i>virgata</i>	Florida threewain			S3	SF1	11-100
<i>Aristida rhizomophora</i>	Pinebarren aster, Whitetop aster				SF1	1001-10,000
<i>Aster reticulatus</i>	Dixie aster, Whitetop aster				SF1	101-1000
<i>Aster tortifolius</i>	Bluethead				SF1	11-100
<i>Burmanna biflora</i>	Narrowleaf Carolina scalystem			S2	SF1	11-100
<i>Elytraria carolinensis</i> var. <i>angustifolia</i>	Snowy orchid		T			11-100
<i>Habenaria nivea</i>	Catesby's lily, Pine lily		T			11-100
<i>Lilium catesbaei</i>	Slender club-moss					11-100
<i>Lycopodiella caroliniana</i>	Barbara's-buttons, Grassleaf Barbara's button				SF1	101-1000
<i>Marshallia tenuifolia</i>	Yellow butterwort				SF1	11-100
<i>Pinguicula lutea</i>	Reflexed wild-pine, Northern needleleaf		T			11-100
<i>Tillandsia barbiana</i>	Stiff-leaved wild-pine, Cardinal airplant		T			11-100
<i>Tillandsia fasciculata</i> var. <i>densispica</i>	Giant wild-pine, Giant airplant		E			11-100
<i>Tillandsia utriculata</i>	Southern bladderwort		E			11-100
<i>Utricularia juncea</i>	Primrose-leaved violet				SF1	101-1000
<i>Viola primulifolia</i>	Bog-mat, Florida mudmidget				SF1	101-1000
<i>Wolffella gladiata</i>	Fringed yelloweyed grass				SF1	10,000-100,000
<i>Xyris fimbriata</i>					SF1	101-1000

Federal Status	FNAI Status
T = Threatened	S1 = Critically imperiled in Florida
E = Endangered	S2 = Imperiled in Florida
State Status	S3 = Very rare or local throughout its range in Florida
T = Threatened	IRC status
E = Endangered	SF1 = Critically imperiled in South Florida (SF)

Table 8:
**The Vascular Plants of
 Muscara**

A1A Hutchinson Island, Jensen Beach, Florida

Field Data Compiled By:
 Steven W. Woodmansee and Sandra A. Vardaman
 The Institute for Regional Conservation
 Miami, FL

Various dates 1998-2002

Dicots

<u>Acanthaceae</u>	
<i>Dicliptera sexangularis</i>	False-mint, Sixangle folding
<u>Aizoaceae</u>	
<i>Sesuvium portulacastrum</i>	Perennial sea-purslane, Shoreline seapurslane
<u>Amaranthaceae</u>	
E <i>Gomphrena serrata</i>	Globe-amaranth
<u>Anacardiaceae</u>	
E <i>Schinus terebinthifolius</i>	Brazilian-pepper
<u>Apiaceae</u>	
<i>Hydrocotyle verticillata</i>	Whorled marshpennywort
<u>Apocynaceae</u>	
E <i>Catharanthus roseus</i>	Madagascar-periwinkle
<i>Rhabdadenia biflora</i>	Mangrove rubbervine, Mangrovevine
<u>Araliaceae</u>	
E <i>Schefflera actinophylla</i>	Australian umbrellatree
<u>Asclepiadaceae</u>	
E <i>Morrenia odorata</i>	Latexplant
<i>Sarcostemma clausum</i>	Whitevine, White twinevine
<u>Asteraceae</u>	
<i>Ambrosia artemisiifolia</i>	Common ragweed
<i>Aster elliotii</i>	Elliott's aster
<i>Baccharis halimifolia</i>	Groundsel tree, Sea-myrtle
<i>Bidens alba</i> var. <i>radiata</i>	Spanish-needles
<i>Borrchia frutescens</i>	Silver sea-oxeye-daisy, Bushy seaside oxeye
<i>Conyza canadensis</i> var. <i>pusilla</i>	Dwarf Canadian horseweed

E	<i>Emilia fosbergii</i>	Florida tasselflower
	<i>Erechtites hieracifolia</i>	Fireweed, American burnweed
	<i>Eupatorium capillifolium</i>	Dog-fennel
	<i>Eupatorium serotinum</i>	Lateflowering thoroughwort
	<i>Helianthus debilis</i>	East Coast dune sunflower
	<i>Iva imbricata</i>	Beach-elder, Seacoast marshelder
	<i>Mikania scandens</i>	Climbing hempweed, Climbing hempvine
	<i>Pluchea odorata</i>	Sweetscent
E	<i>Sonchus oleraceus</i>	Common sowthistle
	<i>Verbesina virginica</i>	Frostweed, White crownbeard
E	<i>Wedelia trilobata</i>	Creeping wedelia, Creeping oxeye
	<u>Avicenniaceae</u>	
	<i>Avicennia germinans</i>	Black mangrove
	<u>Bataceae</u>	
	<i>Batis maritima</i>	Saltwort, Turtleweed
	<u>Boraginaceae</u>	
	<i>Heliotropium angiospermum</i>	Scorpionstail
	<i>Heliotropium curassavicum</i>	Seaside heliotrope, Salt heliotrope
	<u>Brassicaceae</u>	
	<i>Cakile lanceolata</i>	Coastal searocket
	<i>Lepidium virginicum</i>	Poor-man's-pepper, Virginia pepperweed
	<u>Burseraceae</u>	
	<i>Bursera simaruba</i>	Gumbo-limbo
	<u>Cactaceae</u>	
	<i>Opuntia stricta</i>	Erect pricklypear
	<u>Capparaceae</u>	
	<i>Capparis flexuosa</i>	Limber caper, Bayleaf capertree
	<u>Casuarinaceae</u>	
E	<i>Casuarina equisetifolia</i>	Australian-pine, Horsetail casuarina
	<u>Chenopodiaceae</u>	
E	<i>Chenopodium ambrosioides</i>	Mexican tea
	<u>Combretaceae</u>	
	<i>Loguncularia racemosa</i>	White mangrove
E	<i>Terminalia catappa</i>	Tropical-almond, West Indian-almond
	<u>Convolvulaceae</u>	
	<i>Cuscuta pentagona</i>	Fiveangled dodder
	<i>Ipomoea indica</i> var. <i>acuminata</i>	Ocean-blue morningglory
	<i>Ipomoea pes-caprae</i> subsp. <i>brasiliensis</i>	Railroadvine, Bayhops
	<i>Ipomoea violacea</i>	Coastal morningglory
	<u>Cucurbitaceae</u>	
	<i>Melothria pendula</i>	Creeping-cucumber
E	<i>Momordica charantia</i>	Wild balsam-apple, Balsampear

Euphorbiaceae

Chamaesyce bombensis
Chamaesyce hirta
Chamaesyce hypericifolia
Chamaesyce hyssopifolia
Chamaesyce maculata
Chamaesyce mendezii
Chamaesyce mesembrianthemifolia
Croton punctatus
Poinsettia cyathophora

Sand-dune spurge, Dixie sandmat
Hairy spurge, Pillpod sandmat
Eyebane, Graceful sandmat
Eyebane, Hyssopleaf sandmat
Milk-purslane, Spotted sandmat
Mendez's sandmat
Seaside spurge, Coastal beach sandmat
Beach-tea, Gulf croton
Paintedleaf, Fire-on-the-mountain

Fabaceae

Caesalpinia bonduc
Canavalia rosea
Centrosema virginianum
Dalbergia ecastaphyllum
Desmodium incanum
Galactia volubilis
E *Indigofera spicata*
E *Macroptilium lathyroides*
E *Senna occidentalis*
E, X *Senna pendula* var. *glabrata*
Sophora tomentosa var. *truncata*
Vigna luteola

Gray nicker-bean
Beach-bean, Baybean, Seaside jackbean
Spurred butterfly-pea
Coinvine
Beggar's-ticks
Downy milkpea
Creeping indigo, Trailing indigo
Wild-bean, Wild bushbean
Coffee senna, Septicweed
Valamuerto
Yellow necklacepod
Cow-pea, Hairy pod cowpea

Fagaceae

Quercus virginiana

Virginia live oak

Goodeniaceae

Scaevola plumieri
E *Scaevola sericea*

Inkberry, Beachberry, Gullfeed
Beach napuka

Lamiaceae

Monarda punctata

Horsemint, Spotted beebalm

Lythraceae

Ammannia latifolia

Pink redstem, Toothcup

Malvaceae

E *Hibiscus tiliaceus*
Kosteletzkya virginica
Sida acuta
E *Sida cordifolia*

Seaside mahoe, Sea hibiscus, mahoe
Virginia saltmarsh mallow
Common wireweed, Common fanpetals
Lima

Moraceae

Ficus aurea
E *Ficus microcarpa*

Strangler fig, Golden fig
Laurel fig, Indian laurel

Myrsinaceae

Ardisia escallonioides
Rapanea punctata

Marlberry
Myrsine, Colicwood

Myrtaceae

Eugenia axillaris

White stopper

<i>Eugenia foetida</i>	Spanish stopper, Boxleaf stopper
<u>Nyctaginaceae</u>	
<i>Pisonia aculeata</i>	Devil's claws, Pullback
<u>Oleaceae</u>	
<i>Forestiera segregata</i>	Florida privet, Florida swamprivet
<u>Onagraceae</u>	
<i>Gaura angustifolia</i>	Southern gaura, Southern beeblossum
<i>Ludwigia octovalvis</i>	Mexican primrosewillow
E <i>Ludwigia peruviana</i>	Peruvian primrosewillow
<u>Oxalidaceae</u>	
<i>Oxalis corniculata</i>	Lady's-sorrel, Common yellow woodsorrel
<u>Passifloraceae</u>	
<i>Passiflora suberosa</i>	Corkstem passionflower
<u>Phytolaccaceae</u>	
<i>Phytolacca americana</i>	American pokeweed
<i>Rivina humilis</i>	Rougeplant
<u>Polygonaceae</u>	
<i>Coccoloba diversifolia</i>	Pigeonplum, Tietongue
<i>Coccoloba uvifera</i>	Seagrape
<u>Portulacaceae</u>	
<i>Portulaca oleracea</i>	Purslane, Little hogweed
<i>Portulaca pilosa</i>	Pink purslane, Kiss-me-quick
<u>Primulaceae</u>	
<i>Samolus valerandi subsp. parviflorus</i>	Pineland pimpernel, Seaside brookweed
<u>Rhizophoraceae</u>	
<i>Rhizophora mangle</i>	Red mangrove
<u>Rubiaceae</u>	
<i>Randia aculeata</i>	White indigoberry
E <i>Richardia grandiflora</i>	Largeflower Mexican clover
<i>Spermacoce assurgens</i>	Woodland false buttonweed
E <i>Spermacoce verticillata</i>	Shrubby false buttonweed
<u>Rutaceae</u>	
<i>Zanthoxylum clava-herculis</i>	Hercules'-club
<i>Zanthoxylum fagara</i>	Wild-lime, Lime prickly-ash
<u>Salicaceae</u>	
<i>Salix caroliniana</i>	Coastal Plain willow
<u>Sapindaceae</u>	
E <i>Cupaniopsis anacardioides</i>	Carrotwood
<u>Sapotaceae</u>	
<i>Sideroxylon foetidissimum</i>	Wild mastic, False mastic

<u>Scrophulariaceae</u>		
<i>Bacopa monnieri</i>		Water hyssop, Herb-of-grace
<u>Solanaceae</u>		
<i>Physalis cordata</i>		Heartleaf groundcherry
<i>Physalis walteri</i>		Walter's groundcherry
<i>Solanum americanum</i>		Common nightshade, American black nightshade
<u>Ulmaceae</u>		
<i>Celtis laevigata</i>		Sugarberry, Hackberry
<u>Verbenaceae</u>		
<i>Phyla nodiflora</i>		Frog fruit, Turkey tangle fogfruit, Capeweed
<u>Vitaceae</u>		
<i>Parthenocissus quinquefolia</i>		Virginia-creeper, Woodbine
<u>Monocots</u>		
<u>Agavaceae</u>		
<i>Yucca aloifolia</i>		Spanish-bayonet, Aloe yucca
<u>Amaryllidaceae</u>		
E <i>Crinum asiaticum</i>		Poison bulb
<i>Hymenocallis latifolia</i>		Mangrove spiderlily, Perfumed spiderlily
<u>Areaceae</u>		
E <i>Cocos nucifera</i>		Coconut palm
<i>Sabal palmetto</i>		Cabbage palm
<i>Serenoa repens</i>		Saw palmetto
<u>Bromeliaceae</u>		
<i>Tillandsia fasciculata</i> var. <i>densispica</i>		Stiff-leaved wild-pine, Cardinal airplant
<i>Tillandsia recurvata</i>		Ball-moss
<u>Commelinaceae</u>		
E <i>Commelina diffusa</i>		Common dayflower
<i>Commelina erecta</i>		Whitemouth dayflower
<u>Cyperaceae</u>		
<i>Cyperus croceus</i>		Baldwin's 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
E <i>Fimbristylis cymosa</i>		Hurricane sedge, Hurricanegrass
<u>Poaceae</u>		
<i>Andropogon glomeratus</i> var. <i>pumilus</i>		Common bushy bluestem
<i>Cenchrus echinatus</i>		Southern sandbur
<i>Cenchrus incertus</i>		Coastal sandbur
E <i>Dactyloctenium aegyptium</i>		Crow's-foot grass, Durban crowfootgrass
E <i>Eragrostis atrovirens</i>		Thalia love grass
<i>Eragrostis elliottii</i>		Elliott's love grass

<i>Eustachys petraea</i>	Common fingergrass, Pinewoods fingergrass
<i>Panicum amarum</i>	Beachgrass, Bitter panicgrass
E <i>Panicum repens</i>	Torpedo grass
E <i>Paspalum notatum</i>	Bahia grass
<i>Paspalum setaceum</i>	Thin paspalum
<i>Paspalum vaginatum</i>	Seashore paspalum
<i>Setaria parviflora</i>	Knotroot foxtail, Yellow bristlegrass
<i>Spartina patens</i>	Marshhay cordgrass, Saltmeadow cordgrass
E <i>Sporobolus indicus</i> var. <i>pyramidalis</i>	West Indian dropseed
E <i>Stenotaphrum secundatum</i>	St. Augustine grass
<i>Uniola paniculata</i>	Sea-oats
E <i>Urochloa subquadriflora</i>	Signal grass, Tropical signalgrass

Pteridophytes

<u>Polypodiaceae</u>	Golden polypody
<i>Phlebodium aureum</i>	
<u>Pteridaceae</u>	Giant leather fern
<i>Acrostichum danæifolium</i>	
<u>Vittariaceae</u>	Shoestring fern
<i>Vittaria lineata</i>	

E = Not Native to the site

X = Extirpated