

A Floristic Survey and Rare Species Assessment of
Wild Turkey Strand Preserve, Lee County, Florida
Final Report

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September 23, 2005



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Cover photo: Fringed meadowbeauty (*Rhexia petiolata*), a species newly recorded for Lee County, and ranked as Critically Imperiled in South Florida by The Institute for Regional Conservation taken by the primary author.

Introduction:

Lee County Parks and Recreation manages the 2600 acre Wild Turkey Strand Preserve. Lee County possessed very little floristic data on Wild Turkey Strand 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.

Methods:

Survey Wild Turkey Strand 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 over four weeks dispersed throughout 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:

Wild Turkey Strand Preserve was visited by two IRC biologists October 5-7 and December 7-9, 2004 & and April 5-7, 2005 and July 20-22, 2005. Within the Wild Turkey Strand Preserve, a total of 501 native, naturalized, and cultivated exotic plant species were recorded in our surveys. Of these 405 (81%) are considered native to Lee County, 1 is considered doubtfully native, and 94 (19%) are considered exotic and naturalized. One additional non-native species *Opuntia ficus-indica* was recorded as cultivated only, from dumped material, on the site. Of the exotic species found on the preserve, 57 were considered ruderal or potentially invasive. Potentially invasive species include *Acacia auriculiformis*, *Alternanthera philoxeroides*, *Caperonia palustris*, *Ceratopteris thalictroides*, *Cyperus esculentus*, *Hemarthria altissima*, *Imperata cylindrica*, *Lantana camara*, *Murdannia nudiflora*, *Nephrolepis multiflora*, *Oeceoclades maculata*, *Psidium guajava*, *Pteris vittata*, *Rhynchoselytrum repens*, *Senna pendula* var. *glabra*, *Syzygium cumini*, *Urochloa mutica*, and *Urochloa subquadripara*. In addition a species apparently new to the Flora of North America (*Eleocharis acutangula*) was discovered. This species was invading basin marsh, and it should be closely monitored if not eradicated from the preserve before it becomes problematic elsewhere. Of the native species recorded, 36 species were determined to be ruderal (not occurring in any undisturbed habitat) only 9 % of the native flora. Twenty-three vascular plants listed as invasive or potentially invasive by the Florida Exotic Pest Plant Council (FLEPPC) were recorded at the site (table 6). 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. Thirteen plant species listed by the State of Florida as commercially exploited, threatened, or endangered were recorded. One plant species listed by the Florida Natural Areas Inventory (FNAI) as critically imperiled (S1) in Florida was recorded. Seventeen plant species considered critically imperiled (SF1) in South Florida by The Institute for Regional Conservation (Gann et al 2005) were recorded. One native plant species was newly recorded for Lee County and is ranked SF1 (*Rhexia petiolata*). In addition, as a result of this inventory, *Wolfiella gladiata* has now been downranked to imperiled in South Florida (SF2). Twenty-nine rare plant species were recorded (Table 4), 7% 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. Primary collections are deposited in part at Fairchild Tropical Botanic Garden Herbarium (FTG) in Coral Gables, FL. Duplicate specimens are deposited at The University of South Florida Herbarium (USF) and other registered herbaria. A total of 65 collections were made at the preserve and include 60 vascular plant species and one non vascular plant species (*Ricciocarpus natans*), a floating liverwort, not included elsewhere in this report.

A total of nine 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, dome swamp, mesic flatwoods, prairie hammock and strand swamp. Bayhead is a habitat newly reported for Wild Turkey Strand 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, FLEPPC 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. Table 6 provides a list of FLEPPC species recorded at the site.

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 all plants collected.

Table 1:

The Habitats of Wild Turkey Strand Preserve

The following are habitat descriptions for the 9 habitats encountered in the 2004-2005 survey of Wild Turkey Strand 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 2005).

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, pickerelweed, and mixed emergents, may be in concentric bands (FNAI 2005).

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).

Dome Swamp: Rounded depression in sand/limestone substrate with peat accumulating toward center; seasonally inundated, still water; subtropical or temperate; occasional or rare fire; cypress, blackgum, or bays, often tallest in center. (FNAI 2005)

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 2005).

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 2005).

Strand Swamp: Broad, shallow channel with peat over mineral substrate; seasonally inundated, flowing water; subtropical; occasional or rare fire; cypress and/or willow. (FNAI 2005)

Table 2:
The Vascular Plants of
Wild Turkey Strand Preserve, Lee County



The Institute for Regional Conservation
 Miami, Florida

Compiled from field observations made by Steven W. Woodmansee and/or Keith A. Bradley
 between October 4th, 2004 and July 22nd, 2005.

Dicots

Acanthaceae

<i>Dyschoriste oblongifolia</i>	Common twinflower, Oblongleaf twinflower
<i>Justicia angusta</i>	Narrow-leaved waterwillow
<i>Stenandrium dulce</i>	Pinklet

Aceraceae

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

E <i>Alternanthera philoxeroides</i>	Alligatorweed
E <i>Alternanthera sessilis</i>	Sessile joyweed
E <i>Amaranthus viridis</i>	Slender amaranth
E <i>Gomphrena serrata</i>	Globeamaranth
I <i>Iresine diffusa</i>	Bloodleaf, Juba's bush

Anacardiaceae

E <i>Rhus copallina</i>	Winged sumac
E <i>Schinus terebinthifolius</i>	Brazilian-pepper

Annonaceae

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

Apiaceae

<i>Centella asiatica</i>	Coinwort, Spadeleaf
<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
<i>Ptilimnium capillaceum</i>	Mock bishopsweed, Herbwilliam

Aquifoliaceae

<i>Ilex cassine</i>	Dahoon holly, Dahoon
<i>Ilex glabra</i>	Gallberry, Inkberry

<u>Asclepiadaceae</u>	
<i>Asclepias longifolia</i>	Longleaf milkweed
<i>Asclepias pedicellata</i>	Savannah milkweed
<i>Sarcostemma clausum</i>	Whitevine, White twinevine
<u>Asteraceae</u>	
<i>Ambrosia artemisiifolia</i>	Common ragweed
<i>Aster adnatus</i>	Clasping aster, Scaleleaf aster
<i>Aster carolinianus</i>	Climbing aster
<i>Aster dumosus</i>	Rice button aster
<i>Aster elliotii</i>	Elliott's aster
<i>Aster subulatus</i>	Annual saltmarsh aster
<i>Baccharis glomeruliflora</i>	Silverling
<i>Baccharis halimifolia</i>	Saltbush, Groundsel tree, Sea-myrtle
<i>Bidens alba</i> var. <i>radiata</i>	Spanish-needles
<i>Bigelowia nudata</i> subsp. <i>australis</i>	Southern pineland rayless goldenrod
<i>Boltonia diffusa</i>	Smallhead Doll's-daisy
<i>Carphephorus corymbosus</i>	Florida paintbrush, Coastalplain chaffhead
<i>Carphephorus odoratissimus</i> var. <i>suptropicanus</i>	Pineland purple, False vanillaleaf
<i>Chaptalia tomentosa</i>	Woolly sunbonnets, Pineland daisy
<i>Cirsium horridulum</i>	Purple thistle
<i>Cirsium nuttallii</i>	Nuttall's thistle
<i>Conoclinium coelestinum</i>	Blue mistflower
<i>Conyza canadensis</i> var. <i>pusilla</i>	Dwarf Canadian horseweed
<i>Coreopsis floridana</i>	Florida tickseed
<i>Coreopsis leavenworthii</i>	Leavenworth's tickseed
<i>Eclipta prostrata</i>	False-daisy
<i>Elephantopus elatus</i>	Florida elephant's-foot, Tall elephant's-foot
E <i>Emilia fosbergii</i>	Florida 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 capillifolium</i>	Dog-fennel
<i>Eupatorium leptophyllum</i>	Falsefennel
<i>Eupatorium mohrii</i>	Mohr's thoroughwort
<i>Euthamia caroliniana</i>	Slender goldenrod
<i>Gnaphalium falcatum</i>	Cudweed, Narrowleaf purple everlasting
<i>Gnaphalium obtusifolium</i>	Rabbit's tobacco, Sweet everlasting
<i>Helenium pinnatifidum</i>	Southeastern sneezeweed
<i>Heterotheca subaxillaris</i>	Camphorweed
<i>Hieracium megacephalon</i>	Coastal plain hawkweed
<i>Iva microcephala</i>	Piedmont marshelder
<i>Liatris garberi</i>	Garber's gayfeather
<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 gigantea</i>	Giant goldenrod
<i>Solidago sempervirens</i>	Seaside goldenrod
<i>Solidago stricta</i>	Narrow-leaved goldenrod, Wand goldenrod
<i>Solidago tortifolia</i>	Twistedleaf goldenrod
E <i>Tridax procumbens</i>	Brittleweed, Coatbuttons
E <i>Vernonia cinerea</i>	Little ironweed
<u>Boraginaceae</u>	
<i>Heliotropium polyphyllum</i>	Pineland heliotrope
<u>Brassicaceae</u>	
<i>Rorippa teres</i>	Southern marsh yellowcress
<u>Buddlejaceae</u>	
<i>Polypteron procumbens</i>	Rustweed, Juniperleaf
<u>Cactaceae</u>	
CE <i>Opuntia ficus-indica</i>	Spineless cactus
<u>Campanulaceae</u>	
<i>Lobelia glandulosa</i>	Glade lobelia
<u>Caprifoliaceae</u>	
<i>Sambucus canadensis</i>	Elderberry, American elder
<u>Caryophyllaceae</u>	
<i>Drymaria cordata</i>	West Indian chickweed, Drymary
<u>Chenopodiaceae</u>	
E <i>Chenopodium album</i>	Lamb's-quarters
E <i>Chenopodium ambrosioides</i>	Mexican tea
<u>Chrysobalanaceae</u>	
<i>Chrysobalanus icaco</i>	Coco-plum
<i>Licania michauxii</i>	Gopher-apple
<u>Cistaceae</u>	
<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 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 indica</i> var. <i>acuminata</i>	Ocean-blue morningglory
<i>Ipomoea sagittata</i>	Everglades morningglory
<u>Cornaceae</u>	
<i>Cornus foemina</i>	Stiff cornel, Swamp dogwood, Stiff dogwood

Cucurbitaceae

- Cucumis sativa*
Melothria pendula

Cucumber
Creeping-cucumber

Droseraceae

- Drosera capillaris*

Pink sundew

Ericaceae

- Bejaria racemosa*
Gaylussacia dumosa
Lyonia fruticosa
Vaccinium myrsinites

Tarflower
Dwarf black-huckleberry, Dwarf huckleberry
Coastalplain staggerbush
Shiny blueberry

Euphorbiaceae

- Caperonia castaneifolia*
E *Caperonia palustris*
Chamaesyce hirta
Chamaesyce hypericifolia
Chamaesyce hyssopifolia
Cnidoscolus stimulosus
Euphorbia inundata
Euphorbia polypylla
Phyllanthus carolinensis subsp. saxicola
E *Phyllanthus urinaria*
Stillingia aquatica
Stillingia sylvatica

Chestnutleaf Falsecroton
Sacatrapo
Hairy spurge, Pillpod sandmat
Eyebane, Graceful sandmat
Eyebane, Hyssopleaf sandmat
Tread-softly, Finger-rot
Florida pineland spurge
Pineland euphorbia, Lesser Florida spurge
Rock Carolina leafflower
Chamber bitter
Corkwood, Water toothleaf
Queensdelight

Fabaceae

- E *Abrus precatorius*
E *Acacia auriculiformis*
Acacia farnesiana
Aeschynomene americana
E *Aeschynomene indica*
E *Alysicarpus ovalifolius*
Centrosema virginianum
Chamaecrista nictitans
Chamaecrista nictitans var. aspera
E *Crotalaria lanceolata*
E *Crotalaria pallida var. obovata*
Crotalaria rotundifolia
E *Crotalaria spectabilis*
Desmodium incanum
E *Desmodium triflorum*
Galactia elliottii
Galactia regularis
E *Indigofera hirsuta*
E *Macroptilium lathyroides*
E *Medicago lupulina*
E *Melilotus albus*
E *Senna pendula var. glabrata*
Sesbania herbacea
Tephrosia rugelii
Vicia acutifolia

Rosary-pea, Crab-eyes
Earleaf acacia
Sweet acacia
Shyleaf
Indian joint-vetch
False moneywort, Alyce-clover
Spurred butterfly-pea
Sensitive-pea
Hairy partridge-pea, Hairy sensitive-pea
Lanceleaf rattlebox
Smooth rattlebox
Rabbitbells
Showy rattlebox
Beggar's-ticks
Threeflower ticktrefoil
Elliott's milkpea
Eastern milkpea
Hairy indigo
Wild-bean, Wild bushbean
Black medic
White sweetclover
Valamuerto
Danglepod
Rugel's hoarypea
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 virginiana</i>	Virginia live oak
<u>Gentianaceae</u>	
<i>Bartonia verna</i>	White screwstem
<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>Haloraginaceae</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
E <i>Hyptis spicigera</i>	Marubio
E <i>Hyptis verticillata</i>	John Charles
<i>Lycopus rubellus</i>	Taperleaf waterhoarhound
<i>Physostegia purpurea</i>	False dragonhead, Eastern false dragonhead
<i>Piloblepharis rigida</i>	Wild pennyroyal
<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 inflata</i>	Floating bladderwort
<i>Utricularia purpurea</i>	Eastern purple bladderwort
<i>Utricularia resupinata</i>	Small purple 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 var. texanum</i>	Stiff yellow flax
<u>Loganiaceae</u>	
<i>Mitreola petiolata</i>	Miterwort, Lax hornpod
<i>Mitreola sessilifolia</i>	Mitrewort, Swamp hornpod

<u>Lythraceae</u>		
	<i>Ammannia latifolia</i>	Pink redstem, Toothcup
E	<i>Cuphea carthagenensis</i>	Colombian waxweed
	<i>Rotala ramosior</i>	Toothcup, Lowland rotala
<u>Malvaceae</u>		
	<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>		
	<i>Rhexia cubensis</i>	West Indian meadowbeauty
	<i>Rhexia mariana</i>	Pale meadowbeauty, Maryland meadowbeauty
	<i>Rhexia nuttallii</i>	Nuttall's meadowbeauty
	<i>Rhexia petiolata</i>	Fringed meadowbeauty
<u>Menyanthaceae</u>		
	<i>Nymphoides aquatica</i>	Big floatingheart
<u>Moraceae</u>		
	<i>Ficus aurea</i>	Strangler fig, Golden fig
E	<i>Ficus microcarpa</i>	Laurel fig, Indian laurel
<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 guajava</i>	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
<u>Oleaceae</u>		
	<i>Fraxinus caroliniana</i>	Water ash, Carolina ash, Pop ash
<u>Onagraceae</u>		
	<i>Gaura angustifolia</i>	Southern gaura, Southern beeblissom
	<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
	<i>Oenothera laciniata</i>	Cut-leaf evening-primrose
<u>Oxalidaceae</u>		
	<i>Oxalis corniculata</i>	Lady's-sorrel, Common yellow wood sorrel

<u>Passifloraceae</u>		
	<i>Passiflora suberosa</i>	Corkystem passionflower
<u>Phytolaccaceae</u>		
	<i>Phytolacca americana</i>	American pokeweed
<u>Polygalaceae</u>		
	<i>Polygala balduinii</i>	Baldwin's milkwort
	<i>Polygala cruciata</i>	Drumheads
	<i>Polygala cymosa</i>	Tall pinebarren 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 rugelii</i>	Big yellow 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 pensylvanicum</i>	Pennsylvannia smartweed
	<i>Polygonum punctatum</i>	Dotted smartweed
<u>Portulacaceae</u>		
	<i>Portulaca oleracea</i>	Purslane, Little hogweed
<u>Primulaceae</u>		
	<i>Anagallis minima</i>	Chaffweed
	<i>Anagallis pumila</i>	Florida pimpernel
	<i>Samolus valerandi subsp. <i>parviflorus</i></i>	Pineland pimpernel, Seaside brookweed
<u>Ranunculaceae</u>		
	<i>Clematis baldwinii</i>	Pine-hyacinth
<u>Rhamnaceae</u>		
	<i>Berchemia scandens</i>	rattan vine, Alabama supplejack
<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 teres</i>	Poor joe, Rough buttonweed
	<i>Diodia virginiana</i>	Buttonweed, Virginia buttonweed
	<i>Galium hispidulum</i>	Coastal bedstraw
E	<i>Hedyotis corymbosa</i>	Flattop mille graines
	<i>Hedyotis procumbens</i>	Innocence, Roundleaf bluet
	<i>Hedyotis uniflora</i>	Clustered mille graine
E	<i>Richardia scabra</i>	Rough Mexican clover
	<i>Spermacoce assurgens</i>	Woodland false buttonweed
	<i>Spermacoce prostrata</i>	Prostrate false buttonweed
E	<i>Spermacoce verticillata</i>	Shrubby false buttonweed

<u>Salicaceae</u>		
	<i>Salix caroliniana</i>	Coastal Plain willow
<u>Sapotaceae</u>		
	<i>Sideroxylon reclinatum</i>	Recline Florida bully
<u>Scrophulariaceae</u>		
	<i>Agalinis fasciculata</i>	Beach false foxglove
	<i>Agalinis obtusifolia</i>	Tenlobe false foxglove
	<i>Bacopa caroliniana</i>	Lemon hyssop, Lemon bacopa, Blue
	<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 dubia</i> var. <i>anagallidea</i>	Yellowseed false-pimpernel
	<i>Lindernia grandiflora</i>	Savannah false-pimpernel
	<i>Mecardonia acuminata</i> subsp. <i>peninsularis</i>	Axilflower
	<i>Micranthemum glomeratum</i>	Manatee mudflower
	<i>Micranthemum umbrosum</i>	Shade mudflower
	<i>Scoraria dulcis</i>	Sweetbroom, Licoriceweed
<u>Solanaceae</u>		
E	<i>Lycopersicon esculentum</i>	Tomato, Garden Tomato
	<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 tampicense</i>	Aquatic soda-apple
<u>Sterculiaceae</u>		
E	<i>Melochia corchorifolia</i>	Chocolateweed
	<i>Melochia spicata</i>	Bretonica peluda
	<i>Waltheria indica</i>	Sleepy morning
<u>Turneraceae</u>		
	<i>Piriqueta caroliniana</i>	Pitted stripeseed
<u>Urticaceae</u>		
	<i>Boehmeria cylindrica</i>	Button-hemp, False nettle, Bog hemp
<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
<u>Violaceae</u>		
	<i>Viola lanceolata</i>	Bog white violet
	<i>Viola palmata</i>	Early blue violet
<u>Vitaceae</u>		
	<i>Parthenocissus quinquefolia</i>	Virginia-creeper, Woodbine
	<i>Vitis rotundifolia</i>	Muscadine, Muscadine grape

Gymnosperms

Cupressaceae

Taxodium ascendens

Pond cypress

Pinaceae

Pinus elliottii var. densa

South Florida slash pine

Monocots

Alismataceae

Sagittaria graminea

Grassy arrowhead

Sagittaria graminea var. chapmanii

Chapman's arrowhead

Sagittaria lancifolia

Bulltongue arrowhead

Amaryllidaceae

Crinum americanum

Swamp-lily, Seven-sisters, String-lily

Nothoscordum bivalve

False-garlic, Crowpoison

Araceae

E *Pistia stratiotes*

Water-lettuce

Arecaceae

Sabal palmetto

Cabbage palm

Serenoa repens

Saw palmetto

Bromeliaceae

Tillandsia balbisiana

Reflexed wild-pine, Northern needleleaf

Tillandsia fasciculata var. densispica

Stiff-leaved wild-pine, Cardinal airplant

Tillandsia paucifolia

Twisted wild-pine, Potbelly airplant

Tillandsia recurvata

Ball-moss

Tillandsia setacea

Thin-leaved wild-pine, Southern needleleaf

Tillandsia usneoides

Spanish-moss

Tillandsia utriculata

Giant wild-pine, Giant airplant

Burmanniaceae

Burmannia capitata

Southern bluethread

Commelinaceae

E *Commelina diffusa*

Common dayflower

E *Commelina gambiae*

Gambian dayflower

E *Murdannia nudiflora*

Nakedstem dewflower

E *Murdannia spirata*

Asiatic dewflower

Cyperaceae

Carex longii

Long's sedge

Carex verrucosa

Warty sedge

Cladium jamaicense

Saw-grass, Jamaica swamp sawgrass

Cyperus compressus

Poorland flatsedge

Cyperus croceus

Baldwin's flatsedge

Cyperus distinctus

Distinct flatsedge, Swamp flatsedge

E *Cyperus esculentus*

Yellow nut-grass, Chufa flatsedge

Cyperus flavescens

Yellow flatsedge

Cyperus haspan

Haspan flatsedge

E	<i>Cyperus iria</i>	Ricefield flatsedge
	<i>Cyperus ligularis</i>	Swamp flatsedge
	<i>Cyperus odoratus</i>	Fragrant flatsedge
	<i>Cyperus polystachyos</i>	Manyspike flatsedge
E	<i>Cyperus pumilus</i>	Low flatsedge
	<i>Cyperus retrorsus</i>	Pinebarren flatsedge
E	<i>Cyperus rotundus</i>	Nut-grass
	<i>Cyperus surinamensis</i>	Tropical flatsedge
E	<i>Eleocharis acutangula</i>	Acute spikerush
	<i>Eleocharis baldwinii</i>	Baldwin's spikerush, roadgrass
	<i>Eleocharis cellulosa</i>	Gulf Coast spikerush
	<i>Eleocharis flavescens</i>	Yellow spikerush, Pale spikerush
	<i>Eleocharis geniculata</i>	Canada spikerush
	<i>Eleocharis interstincta</i>	Knotted spikerush
	<i>Fimbristylis autumnalis</i>	Slender fimbry
E	<i>Fimbristylis cymosa</i>	Hurricane sedge, Hurricanegrass
	<i>Fimbristylis puberula</i>	Hairy fimbry
E	<i>Fimbristylis schoenoides</i>	Ditch fimbry
	<i>Fuirena breviseta</i>	Saltmarsh umbrellasedge
	<i>Fuirena scirpoidea</i>	Southern umbrellasedge
E	<i>Kyllinga brevifolia</i>	Shortleaf spikesedge
	<i>Kyllinga odorata</i>	Fragrant spikesedge
	<i>Kyllinga pumila</i>	Low spikesedge
E	<i>Lipocarpha aristulata</i>	Awned halfchaff sedge
	<i>Lipocarpha micrantha</i>	Smallflower halfchaff sedge
	<i>Rhynchospora colorata</i>	Starrush whitetop
	<i>Rhynchospora divergens</i>	Spreading beaksedge
	<i>Rhynchospora fascicularis</i>	Fascicled Beaksedge
	<i>Rhynchospora fernaldii</i>	Fernald's beaksedge
	<i>Rhynchospora filifolia</i>	Threadleaf beaksedge
	<i>Rhynchospora inundata</i>	Narrowfruit horned beaksedge
	<i>Rhynchospora microcarpa</i>	Southern beaksedge
	<i>Rhynchospora nitens</i>	Shortbeak beaksedge
	<i>Rhynchospora plumosa</i>	Plumed beaksedge
	<i>Rhynchospora rariflora</i>	Fewflower beaksedge
	<i>Rhynchospora tracyi</i>	Tracy's beaksedge
	<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 hirtella</i>	Riverswamp nutrush
E	<i>Scleria lacustris</i>	Wright's nutrush
	<i>Scleria reticularis</i>	Netted nutrush
	<i>Scleria verticillata</i>	Low nutrush

Eriocaulaceae

<i>Eriocaulon compressum</i>	Flattened pipewort
<i>Eriocaulon decangulare</i>	Tangle pipewort
<i>Lachnocaulon anceps</i>	Whitehead bogbutton
<i>Lachnocaulon minus</i>	Small's bogbutton
<i>Syngonanthus flavidulus</i>	Yellow hatpins

<u>Haemodoraceae</u>		
<i>Lachnanthes caroliana</i>		Bloodroot, Carolina redroot
<u>Hypoxidaceae</u>		
<i>Hypoxis juncea</i>		Fringed Yellow stargrass
<u>Iridaceae</u>		
<i>Sisyrinchium angustifolium</i>		Narroleaf blueeyed-grass
<u>Juncaceae</u>		
<i>Juncus marginatus</i>		Shore rush, Grassleaf rush
<i>Juncus megacephalus</i>		Bighead rush
<u>Lemnaceae</u>		
<i>Lemna obscura</i>		Little duckweed
<i>Lemna valdiviana</i>		Valdivia duckweed
<i>Spirodela polyrhiza</i>		Common 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
<u>Marantaceae</u>		
<i>Thalia geniculata</i>		Alligatorflag, Fireflag
<u>Najadaceae</u>		
<i>Najas wrightiana</i>		Wright's waternymph
<u>Orchidaceae</u>		
<i>Bletia purpurea</i>		Pinepink
<i>Encyclia tampensis</i>		Florida butterfly orchid
<i>Eulophia alta</i>		Wild-coco
<i>Habenaria floribunda</i>		Rein orchid, Toothpetal false reinorchid
<i>Habenaria quinqueseta</i>		Longhorn false reinorchid
<i>Harrisella porrecta</i>		Needleroot airplant orchid
E <i>Oeceoclades maculata</i>		African ground orchid, Monk orchid
<i>Sacoila lanceolata</i>		Leafless beaked lady's-tresses
<i>Spiranthes laciniata</i>		Lacelip lady's-tresses
<i>Spiranthes longilabris</i>		Longlip lady's-tresses
<i>Spiranthes odorata</i>		Fragrant lady's-tresses, Marsh lady's-tresses
<i>Spiranthes vernalis</i>		Spring lady's-tresses
<u>Poaceae</u>		
<i>Amphicarpum muhlenbergianum</i>		Blue-maidencane
<i>Andropogon glomeratus var. glaucopsis</i>		Purple bluestem
<i>Andropogon glomeratus var. pumilus</i>		Common bushy bluestem
<i>Andropogon gyrans</i>		Elliott's bluestem
<i>Andropogon ternarius</i>		Splitbeard bluestem
<i>Andropogon virginicus</i>		Broomsedge bluestem
<i>Andropogon virginicus var. glaucus</i>		Chalky bluestem
<i>Aristida beyrichiana</i>		Southern wiregrass
<i>Aristida palustris</i>		Longleaf threeawn
<i>Aristida purpurascens</i>		Arrowfeather threeawn

	<i>Aristida spiciformis</i>	Bottlebrush threeawn
	<i>Axonopus fissifolius</i>	Common carpetgrass
	<i>Axonopus furcatus</i>	Big carpetgrass
E	<i>Bothriochloa pertusa</i>	Pitted bluestem, Pitted beardgrass
	<i>Cenchrus incertus</i>	Coastal sandbur
E	<i>Cynodon dactylon</i>	Bermuda grass
E	<i>Dactyloctenium aegyptium</i>	Crow's-foot grass, Durban crowfootgrass
	<i>Dichanthelium aciculare</i>	Needleleaf witch grass
	<i>Dichanthelium dichotomum</i>	Cypress witchgrass
	<i>Dichanthelium ensifolium</i>	Cypress witchgrass
	<i>Dichanthelium ensifolium</i> var. <i>unciphyllum</i>	Cypress witchgrass
	<i>Dichanthelium leucothrix</i>	Rough witchgrass
	<i>Dichanthelium portoricense</i>	Hemlock witchgrass
	<i>Dichanthelium strigosum</i> var. <i>glabrescens</i>	Glabrescent roughhair witchgrass
E	<i>Digitaria bicornis</i>	Asia crabgrass
	<i>Digitaria ciliaris</i>	Southern crabgrass
E	<i>Digitaria longiflora</i>	Indian crabgrass
D	<i>Digitaria serotina</i>	Blanket crabgrass, Dwarf crabgrass
E	<i>Echinochloa colona</i>	Jungle-rice
E	<i>Echinochloa crus-galli</i>	Barnyardgrass
	<i>Echinochloa walteri</i>	Coast cockspur
E	<i>Eleusine indica</i>	Indian goose grass
	<i>Elionurus tripsacoides</i>	Pan-American balsamscale
E	<i>Eragrostis atrovirens</i>	Thalia love grass
E	<i>Eragrostis ciliaris</i>	Gophertail love grass
	<i>Eragrostis ellottii</i>	Elliott's 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
	<i>Gymnopogon brevifolius</i>	Slim skeleton grass, Shortleaf skeleton grass
E	<i>Hemarthria altissima</i>	Limpograss
E	<i>Hymenachne amplexicaulis</i>	Trompetilla
	<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>Luziola fluitans</i>	Water grass, Southern watergrass
	<i>Muhlenbergia capillaris</i>	Muhlygrass, Hairawnmuhly
	<i>Panicum dichotomiflorum</i>	Fall panic grass
	<i>Panicum dichotomiflorum</i> var. <i>bartowense</i>	Hairy 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 crownglass
	<i>Paspalum floridanum</i>	Florida paspalum
	<i>Paspalum laeve</i>	Field 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>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
E	<i>Sorghum bicolor</i>	Grain sorghum
	<i>Spartina bakeri</i>	Sand cordgrass
E	<i>Sporobolus indicus</i>	Smut grass
E	<i>Sporobolus indicus</i> var. <i>pyramidalis</i>	West Indian dropseed
	<i>Sporobolus junceus</i>	Pineywoods dropseed
E	<i>Urochloa mutica</i>	Paragrass
E	<i>Urochloa subquadripala</i>	Signal grass, Tropical signalgrass
	<i>Zizaniopsis miliacea</i>	Southern wild-rice, Giant cut-grass
E	<i>Zoysia tenuifolia</i>	Mascarene templegrass

Pontederiaceae

Pontederia cordata

Pickerelweed

Smilacaceae

Smilax auriculata
Smilax laurifolia
Smilax tamnoides

Earleaf greenbrier
 Catbrier, Laurel greenbrier, Bamboo vine
 Catbrier, Bristly greenbrier, Hogbrier

Typhaceae

Typha domingensis

Southern cat-tail

Xyridaceae

	<i>Xyris ambigua</i>	Coastalplain yelloweyed grass
	<i>Xyris brevifolia</i>	Shortleaf yelloweyed grass
	<i>Xyris caroliniana</i>	Carolina yelloweyed grass
	<i>Xyris difformis</i> var. <i>floridana</i>	Florida yelloweyed grass
	<i>Xyris ellottii</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

Azolla caroliniana

Carolina Mosquito Fern

Blechnaceae

Blechnum serrulatum
Woodwardia virginica

Swamp fern, Toothed midsorus fern
 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>Nephrolepidaceae</u>		
	<i>Nephrolepis biserrata</i>	Giant sword fern
	<i>Nephrolepis exaltata</i>	Wild Boston fern
E	<i>Nephrolepis multiflora</i>	Asian sword fern
<u>Ophioglossaceae</u>		
	<i>Ophioglossum petiolatum</i>	Stalked adder's tongue fern
<u>Osmundaceae</u>		
	<i>Osmunda regalis</i> var. <i>spectabilis</i>	Royal fern
<u>Parkeriaceae</u>		
E	<i>Ceratopteris thalictroides</i>	Watersprite
<u>Polypodiaceae</u>		
	<i>Campyloneurum phyllitidis</i>	Long strap fern
	<i>Phlebodium aureum</i>	Golden polypody
	<i>Pleopeltis polypodioides</i> var. <i>michaixiana</i>	Resurrection fern
<u>Psilotaceae</u>		
	<i>Psilotum nudum</i>	Whisk-fern
<u>Pteridaceae</u>		
E	<i>Pteris vittata</i>	China brake
<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
	<i>Thelypteris palustris</i> var. <i>pubescens</i>	Marsh fern
<u>Vittariaceae</u>		
	<i>Vittaria lineata</i>	Shoestring fern

E = Not Native to the site

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

D = Doubtfully Native to the site

Appendix 1: Wild Turkey Strand Preserve Rare Plant Locations

Wild Turkey Strand Preserve Rare Plant Locations Overview



Data collected Oct. 2004 - July 2005 by
Steven W. Woodmansee and other IRC staff
Map prepared by Steven W. Woodmansee and Keith Bradley
The Institute for Regional Conservation
Miami, FL
www.regionalconservation.org



**Wild Turkey Strand Preserve
Rare Plant Locations
North**



Data collected Oct. 2004 - July 2005 by
Steven W. Woodmansee and other IRC staff
Map prepared by Steven W. Woodmansee and Keith Bradley
The Institute for Regional Conservation
Miami, FL
www.regionalconservation.org



**Wild Turkey Strand Preserve
Rare Plant Locations
North of Powerlines, Southeast End**



Data collected Oct. 2004 - July 2005 by
Steven W. Woodmansee and other IRC staff
Map prepared by Steven W. Woodmansee and Keith Bradley
The Institute for Regional Conservation
Miami, FL
www.regionalconservation.org



**Wild Turkey Strand Preserve
Rare Plant Locations
North of Powerlines, Southeast End 2**



Data collected Oct. 2004 - July 2005 by
Steven W. Woodmansee and other IRC staff
Map prepared by Steven W. Woodmansee and Keith Bradley
The Institute for Regional Conservation
Miami, FL
www.regionalconservation.org



**Wild Turkey Strand Preserve
Rare Plant Locations
South of Powerlines, Central**



Data collected Oct. 2004 - July 2005 by
Steven W. Woodmansee and other IRC staff
Map prepared by Steven W. Woodmansee and Keith Bradley
The Institute for Regional Conservation
Miami, FL
www.regionalconservation.org



**Wild Turkey Strand Preserve
Rare Plant Locations
South of Powerlines, Central, West End**



Data collected Oct. 2004 - July 2005 by
Steven W. Woodmansee and other IRC staff
Map prepared by Steven W. Woodmansee and Keith Bradley
The Institute for Regional Conservation
Miami, FL
www.regionalconservation.org

**Wild Turkey Strand Preserve
Rare Plant Locations
South of Powerlines, South, West End**



Data collected Oct. 2004 - July 2005 by
Steven W. Woodmansee and other IRC staff
Map prepared by Steven W. Woodmansee and Keith Bradley
The Institute for Regional Conservation
Miami, FL
www.regionalconservation.org



**Wild Turkey Strand Preserve
Rare Plant Locations
South of Powerlines, South, East End**



Data collected Oct. 2004 - July 2005 by
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Map prepared by Steven W. Woodmansee and Keith Bradley
The Institute for Regional Conservation
Miami, FL
www.regionalconservation.org

**Wild Turkey Strand Preserve
Rare Plant Locations
South of Powerlines, South**



Data collected Oct. 2004 - July 2005 by
Steven W. Woodmansee and other IRC staff
Map prepared by Steven W. Woodmansee and Keith Bradley
The Institute for Regional Conservation
Miami, FL
www.regionalconservation.org



**Wild Turkey Strand Preserve
Rare Plant Locations
South of Powerlines, Site 90**



Data collected Oct. 2004 - July 2005 by
Steven W. Woodmansee and other IRC staff
Map prepared by Steven W. Woodmansee and Keith Bradley
The Institute for Regional Conservation
Miami, FL
www.regionalconservation.org



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