

# Natural Forest Community Delineation Methods

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## Introduction

The Natural Forest Community (NFC) system was established in 1984 under ordinance 89-9, Chapter 24-60 of the Miami-Dade County Code. The ordinance provides legal protection for sites designated by the county as NFCs:

*“Natural Forest Community shall mean all stands of trees (including their associated understory) which were designated as Natural Forest Communities on the Dade County Natural Forest Community Maps and approved by the Board of County Commissioners, pursuant to Resolution No. R-1764-84.”*

Factors for reviewing proposed Natural Forest Community sites in the original ordinance included: 1) Presence of endangered, threatened, rare, or endemic species (plants or animals); 2) Plant species diversity on the site; 3) Size of trees; 4) Size of site; 5) Wildlife habitat value; 6) Geological features; and 7) Percentage of site covered by non-native plant species.

As required by the ordinance, quantitative evaluation criteria were developed by DERM incorporating the above factors, including separate criteria for the delineation of hardwood hammocks and pinelands. These criteria have become outdated as more scientifically rigorous criteria for delineating natural areas have been developed since 1984, primarily relating to delineation of wetland habitats. Some of the methods used to delineate NFCs by DERM proved to be ineffective including the establishment of transects to measure plant species cover and diversity on each site.

As specified in section 151 of the ordinance, evaluation criteria may be revised occasionally. This document establishes new criteria for the delineation of NFCs in Miami-Dade County. The goal in the development of these new criteria is to utilize scientifically sound methods that can be used by appropriately trained biologists to delineate NFCs.

This document was first submitted to Miami-Dade County on July 27, 2004 for review. Feedback received from reviewers has been compiled into the current documents.

## Methods

We have drawn extensively from the published literature on wetlands delineation to develop the new NFC criteria, particularly the Florida Wetlands Delineation Manual (Gilbert et al. 1995) and the Wetlands Delineation Manual by the US Army Corps of Engineers (USAC 1987). Despite extensive literature searches, we found no examples of methods used to delineate upland forest community boundaries. While many examples of tree ordinances and forest protection ordinances were found, they generally used very subjective criteria in delineating forest boundaries in the rare instances where criteria were mentioned at all.

Our new NFC delineation criteria rely heavily upon plant species that characterize a given site. Wetland delineations in the United States also rely heavily upon vegetation since many species are good indicators of soil and hydrologic conditions, factors also used to delineate wetlands (Gilbert et al. 1995; USAC 1987). In the case of NFCs, we are not seeking to define a set of physical factors, rather, the plant community itself. The approach taken by Tiner (1993) in using the primary indicators method is followed here, especially for vegetation but also for soils.

As is done for wetlands, we have developed a list of Obligate NFC (O-NFC) and Facultative NFC (FAC-NFC) native plant species for NFCs (Appendix 3). Obligate species reach their greatest abundance in NFCs and almost always occur only in NFCs, rather than disturbed habitats. Facultative NFC species are not as reliable an indicator as obligate species, occasionally occurring in disturbed habitats, but are still more typical of NFCs. Purely Facultative (FAC) native species may occur in NFCs, but also occur very frequently in disturbed sites, so are not reliable indicators of NFCs. Ruderal (R) native species may rarely occur in NFCs, but are primarily species of disturbed habitats.

Each NFC currently shown on DERM maps will be visited and delineated using the criteria in Appendices A & B below. Once the boundary of an NFC has been established, the boundary will be walked with a Trimble ProXR GPS to ensure a precise mapping of the NFC boundary. The interior of the site will also be walked to determine if there are any sections of the interior that do not qualify. If these are found they will also be mapped. GPS and GIS accuracy will follow DERM standards.

In addition to mapping the boundary of the NFC, all plant species within the delineated boundaries will be recorded, including natives, non-natives, and cultivated taxa. The approximate population size on a  $\log_{10}$  scale (1, 2-10, 11-100, 101-1000, etc.) of each Federal and State-listed species will be recorded. The data will be provided to DERM indicating nativity status, endangered or threatened species status, Florida Natural Areas Inventory (FNAI) rank, and Florida Exotic Pest Plant Council (FLEPPC) rank. If an NFC includes private property and public conservation lands, floristic data will be collected separately for the private and public portions.

A Floristic Quality Assessment (FQA) will also be performed for each NFC site. FQAs have proved to be useful in ranking the quality of natural areas (Lopez & Fennessy 2002). This may be valuable to the county in prioritizing acquisition and management efforts. FQAs are developed by giving a numerical coefficient of conservatism, using ranging from 0-10, for each plant species on the site. A zero indicates a non-native species, a one a native that grows only in disturbed areas, and

a ten a plant that tolerates essentially no habitat modifications. Different methods of calculating the index have been proposed. A simple average of the coefficients is now considered to be the most meaningful (Rooney and Rogers 2002). Coefficients of Conservatism for plant species that are known to occur in NFCs are listed in the attached Vegetative Index (Appendix 4). The FQA will not be used in the delineation of a site.

Reasonable scientific judgment may be used to delineate areas that would otherwise not qualify as NFC in unusual circumstances, such as when sites have populations of endangered or threatened species of plants or animals or have unusual geological features.

## Appendix 1

### Delineation Technique

1. All areas previously delineated as NFCs by DERM, or areas contiguous with them (when time permits), either in 1984 or later dates, will be assessed and delineated. No minimum size will be set. If NFC boundaries are found to extend onto privately owned folios where NFC was not previously mapped, no NFC is now to be mapped on those folios.
2. NFCs are to include natural habitats including but not limited to pine rocklands, rockland hammocks, prairie hammocks, mesic hammocks, scrubby flatwoods, and coastal uplands (see FNAI for habitat descriptions).
3. Prior to site inspection Miami-Dade County soil surveys should be consulted (Noble et al. 1996). Soil survey maps are somewhat inaccurate and out of date, so determination of soil conditions must be made on site. Site inspectors are to be familiar with the Miami-Dade County soil classification and be able to make determinations of soil types.
4. Natural Forest Communities must be dominated by O-NFC and/or FAC-NFC plant species. Relative cover of combined O-NFC and FAC-NFC species to ruderal and non-native species is to be visually estimated. Usual visual estimates of cover, rather than more intensive plot or transect sampling techniques, is being used to make efficient use of time in delineating a site. The use of visual estimates of cover as a semi-quantitative technique is well established in the field of vegetation sampling (e.g. Mueller-Dombois & Ellenberg 1974), and is known to be accurate when done by field workers with some experience.

On sites such as hammocks with a complicated vegetation strata, visual estimates may be made in each of three strata: canopy (>3m), subcanopy (1-3m), and understory (<1m). Once this is done, the sum of the O-NFC and FAC-NFC covers must be greater than the sum of exotics and ruderal species. This technique allows for sites that have combinations of disturbed and intact strata to be classified easily.

If more precision is required, such as in cases involving legal challenges, more precise quantitative techniques may be used. Methods for these techniques were not developed under this project, but may include transects or plot sampling.

If isolated or persisting trees are present that are O-NFC or FAC-NFC species, the understory must qualify as an NFC. Thus, NFCs are not to include areas dominated by canopy tree species unless vegetation below the canopy warrants its designation as an NFC.

It may not be necessary for inspectors to know all O-NFC or FAC-NFC plant species. For example, saw palmetto (*Serenoa repens*) cover itself may be the dominant cover at many sites, indicating immediately that the subcanopy meets the definition of an NFC. Inspectors should be familiar with the most abundant FAC-NFC and O-NFC species to be able to delineate NFCs.

Designation of habitat (e.g. hammock, pineland, scrubby flatwoods) is not to be considered in this step.

**5.** Narrow edges (<15 feet) dominated by exotic plant species may be mapped as part of the NFC if growing on undisturbed soils. If exotics along the edge are growing on disturbed soils, then this area is not to be mapped.

**6.** Embedded disturbed areas close to or greater than 1/10 acre should also be walked with a GPS. Areas larger than this are to be mapped as non-NFC. Non-paved roads, easements, or trails, or fire breaks should be considered as part of the NFC as long as they are less than 15 feet wide. Paved roads are not to be considered part of the NFC. Structures, and disturbed grounds adjacent to them, are not to be considered NFC until a point where soil and vegetation criteria as described above are met.

**7.** Once the edges of an NFC have been delineated they should be mapped in the field by walking the boundary with a geographic positioning system (GPS) with sub-meter accuracy, such as a Trimble ProXR.

## Appendix 2

### Habitat Classification Technique

After delineation of an NFC the habitat type will be determined following descriptions by FNAI (1990). If more than one habitat is present in an NFC the boundary between the two habitats should be mapped in the field with a GPS. Separate plant lists will be compiled for each plant community.

Determination of forest type is made in almost all circumstances by the historic vegetation on the site. For example, if a site was formerly a pine rockland, but due to fire suppression has developed a dense canopy of hardwood species, the site is not to be mapped as a rockland hammock, rather, a fire suppressed pine rockland. Most of these sites may be restorable to pine rocklands with proper management.

Precise determination of ecotone boundaries when two plant communities grade into each other may be difficult or impossible at times, particularly if a pine rockland adjacent to a rockland hammock has been fire suppressed for decades. In these instances several techniques may be used to delineate ecosystem boundaries. Older aerial photographs, especially those from 1938, may be used for sites in much of southern Miami-Dade County. Other historical documentation of hammock localities may also be used (e.g. Young 1951, 1959, 1959). The presence of pine or saw palmetto stumps indicate pine rockland presence. Solution holes may indicate rockland hammock presence. Reasonable scientific judgment must be used in these rare circumstances.

## **Appendix 3**

### **Native Vegetative Index**

Scientific Name	Common Name	NFC Status
<i>Abildgaardia ovata</i>	Flatspike sedge	FAC-NFC
<i>Acacia farnesiana</i>	Sweet acacia	FAC
<i>Acacia pinetorum</i>	Pineland acacia	O-NFC
<i>Acalypha chamaedrifolia</i>	Three-seeded mercury, Bastard copperleaf	FAC-NFC
<i>Acanthocereus tetragonus</i>	Barbwire cactus, Dilldoe cactus	O-NFC
<i>Adiantum melanoleucum</i>	Fragrant maidenhair	O-NFC
<i>Adiantum tenerum</i>	Brittle maidenhair	FAC-NFC
<i>Adiantum villosum</i>	Wooly maidenhair	O-NFC
<i>Aeschynomene americana</i>	Shyleaf	FAC
<i>Aeschynomene viscidula</i>	Sticky joint-vetch	FAC-NFC
<i>Agalinis fasciculata</i>	Beach false foxglove	FAC-NFC
<i>Agave decipiens</i>	False-sisal	O-NFC
<i>Ageratina jucunda</i>	Hammock snakeroot	O-NFC
<i>Aletris bracteata</i>	White colic-root, bracted colic-root	O-NFC
<i>Aletris lutea</i>	Yellow colicroot	O-NFC
<i>Alvaradoa amorphoides</i>	Mexican alvaradoa	O-NFC
<i>Ambrosia artemisiifolia</i>	Common ragweed	R
<i>Amorpha herbacea</i> var. <i>crenulata</i>	Crenulate leadplant	O-NFC
<i>Ampelopsis arborea</i>	Peppervine	FAC-NFC
<i>Amphitecna latifolia</i>	Black-calabash	O-NFC
<i>Amyris balsamifera</i>	Balsam torchwood	O-NFC
<i>Amyris elemifera</i>	Common torchwood, Sea torchwood	O-NFC
<i>Andropogon glomeratus</i> var. <i>pumilus</i>	Common bushy bluestem	FAC
<i>Andropogon longiberbis</i>	Hairy bluestem	FAC-NFC
<i>Andropogon ternarius</i>	Splitbeard bluestem	O-NFC
<i>Andropogon tracyi</i>	Tracy's bluestem	O-NFC
<i>Andropogon virginicus</i> var. <i>decipiens</i>		O-NFC

<i>Anemia adiantifolia</i>	Pine fern, Maidenhair pineland fern	FAC-NFC
<i>Angadenia berteroi</i>	Pineland-allamanda, Pineland golden trumpet	O-NFC
<i>Annona glabra</i>	Pond-apple	O-NFC
<i>Ardisia escallonioides</i>	Marlberry	O-NFC
<i>Argythamnia blodgettii</i>	Blodgett's wild mercury, Blodgett's silverbush	FAC-NFC
<i>Aristida beyrichiana</i>	Southern wiregrass	O-NFC
<i>Aristida condensata</i>	Big threeawn, Piedmont threeawn	O-NFC
<i>Aristida patula</i>	Tall threeawn	FAC-NFC
<i>Aristolochia pentandra</i>	Marsh's dutchman's-pipe	O-NFC
<i>Aristida purpurascens</i>	Arrowfeather threeawn	FAC-NFC
<i>Arnoglossum ovatum</i>	Ovateleaf indian plantain	O-NFC
<i>Asclepias connivens</i>	Largeflower milkweed	O-NFC
<i>Asclepias tuberosa</i>	Butterflyweed, Butterfly milkweed	O-NFC
<i>Asclepias verticillata</i>	Whorled milkweed	O-NFC
<i>Asclepias viridis</i>	Green antelopehorn	O-NFC
<i>Asimina reticulata</i>	Common pawpaw, Netted pawpaw	O-NFC
<i>Asplenium abscissum</i>	Cutleaf spleenwort	O-NFC
<i>Asplenium dentatum</i>	Toothed spleenwort	O-NFC
<i>Asplenium verecundum</i>	Modest spleenwort	O-NFC
<i>Asplenium xbiscaynianum</i>	Biscayne spleenwort	O-NFC
<i>Aster adnatus</i>	Clasping aster, Scaleleaf aster	O-NFC
<i>Aster bracei</i>	Brace's aster	FAC-NFC
<i>Aster concolor</i>	Eastern silver aster	O-NFC
<i>Aster dumosus</i>	Rice button aster	FAC-NFC
<i>Aster elliotii</i>	Elliott's aster	O-NFC
<i>Aster tortifolius</i>	Dixie aster, Whitetop aster	O-NFC
<i>Ayenia euphrasiifolia</i>	Eyebright ayenia	FAC-NFC



<i>Baccharis angustifolia</i>	Narrowleaved groundsel, Saltwater Falsewillow	FAC-NFC
<i>Baccharis dioica</i>	Hammock groundsel, Broombush Falsewillow	FAC-NFC
<i>Baccharis glomeruliflora</i>	Silverling	FAC-NFC
<i>Baccharis halimifolia</i>	Groundsel tree, Sea-myrtle	FAC-NFC
<i>Balduina angustifolia</i>	Yellow-buttons, Coastalplain Honeycombhead	O-NFC
<i>Basiphyllaea corallicola</i>	Carter's orchid	O-NFC
<i>Bejaria racemosa</i>	Tarflower	O-NFC
<i>Berlandiera subacaulis</i>	Florida green-eyes	O-NFC
<i>Bidens alba</i> var. <i>radiata</i>	Spanish-needles	R
<i>Blechnum serrulatum</i>	Swamp fern, Toothed midsorus fern	O-NFC
<i>Bletia patula</i>	Flor de pasmo	O-NFC
<i>Bletia purpurea</i>	Pinepink	FAC-NFC
<i>Boehmeria cylindrica</i>	Button-hemp, False nettle, Bog hemp	FAC-NFC
<i>Bourreria cassinifolia</i>	Pineland strongback	FAC-NFC
<i>Bourreria succulenta</i>	Smooth strongback, Bahama strongbark	O-NFC
<i>Bouteloua hirsuta</i>	Hairy grama	FAC-NFC
<i>Brassia caudata</i>	Spider orchid, Cricket orchid	O-NFC
<i>Brickellia mosieri</i>	Mosier's false boneset	O-NFC
<i>Buchnera americana</i>	American bluehearts	FAC-NFC
<i>Bulbostylis ciliatifolia</i>	Densetuft hairsedge	O-NFC
<i>Bulbostylis stenophylla</i>	Sandyfield hairsedge	O-NFC
<i>Bursera simaruba</i>	Gumbo-limbo	FAC-NFC
<i>Elephantopus elatus</i>	Florida elephant's-foot, Tall elephant's-foot	FAC-NFC
<i>Eltroplectris calcarata</i>	Longclaw orchid, Spurred neottia	O-NFC
<i>Elytraria caroliniensis</i> var. <i>angustifolia</i>	Narrowleaf Carolina scalystem	O-NFC

<i>Encyclia boothiana</i> var. <i>erythronioides</i>	Dollar orchid	O-NFC
<i>Ipomoea microdactyla</i>	Man-in-the-ground, Bejuco colorado	O-NFC
<i>Ipomoea sagittata</i>	Everglades morningglory	O-NFC
<i>Ipomoea tenuissima</i>	Rockland morningglory	O-NFC
<i>Ipomoea violacea</i>	Coastal morningglory	FAC-NFC
<i>Iresine diffusa</i>	Bloodleaf, Juba's bush	FAC-NFC
<i>Oncidium ensatum</i>	Florida dancinglady orchid	O-NFC
<i>Oncidium undulatum</i>	Mule-ear orchid, Mule-ear oncidium	O-NFC
<i>Ophioglossum palmatum</i>	Hand fern	O-NFC
<i>Oplismenus hirtellus</i>	Woodsgrass, Basketgrass	FAC-NFC
<i>Opuntia humifusa</i>	Pricklypear	FAC-NFC
<i>Byrsonima lucida</i>	Locustberry	O-NFC
<i>Caesalpinia bonduc</i>	Gray nicker-bean	FAC-NFC
<i>Caesalpinia major</i>	Yellow nicker-bean	O-NFC
<i>Callicarpa americana</i>	American beautyberry	FAC-NFC
<i>Calyptanthes pallens</i>	Spicewood, Pale lidflower	O-NFC
<i>Calyptanthes zuzygium</i>	Myrtle-of-the-river	O-NFC
<i>Campyloneurum angustifolium</i>	Narrow strap fern, Narrow-leaved strap fern	O-NFC
<i>Campyloneurum costatum</i>	Tailed strap fern	O-NFC
<i>Campyloneurum phyllitidis</i>	Long strap fern	O-NFC
<i>Canella winterana</i>	Cinnamon bark, Pepper cinnamon	O-NFC
<i>Capparis cynophallophora</i>	Jamaica caper-tree	O-NFC
<i>Capparis flexuosa</i>	Limber caper, Bayleaf capertree	O-NFC
<i>Capraria biflora</i>	Goatweed	FAC
<i>Capsicum annuum</i> var. <i>glabriusculum</i>	Bird pepper, Cayenne pepper	FAC-NFC
<i>Cardiospermum microcarpum</i>	Balloonvine, Heartseed	FAC
<i>Cassytha filiformis</i>	Lovevine, Devil's gut	FAC-NFC

<i>Catopsis berteroniana</i>	Powdery strap airplant	O-NFC
<i>Catopsis floribunda</i>	Florida strap airplant	O-NFC
<i>Cayaponia americana</i>	American melonleaf	O-NFC
<i>Celosia nitida</i>	West Indian cock's comb	O-NFC
<i>Celtis laevigata</i>	Sugarberry, Hackberry	O-NFC
<i>Cenchrus echinatus</i>	Southern sandbur	FAC
<i>Cenchrus gracillimus</i>	Slender sandbur	O-NFC
<i>Cenchrus incertus</i>	Coastal sandbur	FAC
<i>Centella asiatica</i>	Coinwort, Spadeleaf	FAC
<i>Centrosema virginianum</i>	Spurred butterfly-pea	FAC-NFC
<i>Chamaesyce blodgettii</i>	Limestone sandmat	FAC
<i>Chamaesyce conferta</i>	Everglades key sandmat	FAC-NFC
<i>Chamaecrista deeringiana</i>	Deering partridge-pea	O-NFC
<i>Chamaesyce deltoidea</i> subsp. <i>adhaerens</i>	Goulds wedge sandmat	FAC-NFC
<i>Chamaesyce deltoidea</i>	Wedge sandmat	FAC-NFC
<i>Chamaesyce deltoidea</i> subsp. <i>pinetorum</i>	Pineland deltoid spurge, Pineland sandmat	O-NFC
<i>Chamaecrista fasciculata</i>	Partridge pea	O-NFC
<i>Chamaesyce garberi</i>	Garber's sandmat	O-NFC
<i>Chamaesyce hirta</i>	Hairy spurge, Pillpod sandmat	R
<i>Chamaesyce hypericifolia</i>	Eyebane, Graceful sandmat	R
<i>Chamaesyce hyssopifolia</i>	Eyebane, Hyssopleaf sandmat	R
<i>Chamaesyce mendezii</i>	Mendez's sandmat	R
<i>Chamaecrista nictitans</i> var. <i>aspera</i>	Hairy partridge-pea	FAC
<i>Chamaesyce pergamena</i>	Southern Florida sandmat	O-NFC
<i>Chamaesyce porteriana</i>	Porter's sandmat	O-NFC
<i>Chaptalia albicans</i>	White sunbonnets	FAC-NFC
<i>Chiococca alba</i>	Common snowberry, Milkberry	FAC-NFC
<i>Chiococca parvifolia</i>	Pineland snowberry	FAC-NFC

<i>Chloris elata</i>	Tall windmillgrass	FAC-NFC
<i>Chromolaena odorata</i>	Jack-in-the-bush	R
<i>Chrysobalanus icaco</i>	Coco-plum	FAC-NFC
<i>Chrysopsis linearifolia</i> subsp. <i>dressii</i>	Dress goldenaster	O-NFC
<i>Chrysophyllum oliviforme</i>	Satinleaf	O-NFC
<i>Cirsium horridulum</i>	Purple thistle	FAC-NFC
<i>Cissampelos pareira</i>	Pareira brava	O-NFC
<i>Cissus trifoliata</i>	Marinevine, Sorrelvine	?
<i>Cissus verticillata</i>	Possum-grape, Seasonvine	FAC
<i>Citharexylum spinosum</i>	Florida fiddlewood	O-NFC
<i>Cladium jamaicense</i>	Saw-grass, Jamaica swamp sawgrass	FAC-NFC
<i>Clematis baldwinii</i>	Pine-hyacinth	O-NFC
<i>Clitoria mariana</i>	Butterfly pea, Atlantic pigeonwings	O-NFC
<i>Cnidoscolus stimulosus</i>	Tread-softly, Finger-rot	O-NFC
<i>Coccothrinax argentata</i>	Florida silver palm	FAC-NFC
<i>Coccoloba diversifolia</i>	Pigeonplum, Tietongue	O-NFC
<i>Coccoloba uvifera</i>	Seagrape	FAC-NFC
<i>Colubrina arborescens</i>	Coffee colubrina, Greenheart	FAC-NFC
<i>Colubrina cubensis</i> var. <i>floridana</i>	Florida snake-bark, Cuban nakedwood	FAC-NFC
<i>Colubrina elliptica</i>	Nakedwood, Soldierwood	O-NFC
<i>Commelina erecta</i>	Whitemouth dayflower	O-NFC
<i>Conoclinium coelestinum</i>	Blue mistflower	FAC-NFC
<i>Conocarpus erectus</i>	Buttonwood	FAC-NFC
<i>Conradina grandiflora</i>	Largeflower false-rosemary	O-NFC
<i>Conyza canadensis</i> var. <i>pusilla</i>	Dwarf Canadian horseweed	R
<i>Cordia bahamensis</i>	Bahama manjack, Bahama geiger	O-NFC
<i>Cordia globosa</i>	Butterflybush, Curacao	FAC-NFC

	bush	
<i>Coreopsis leavenworthii</i>	Leavenworth's tickseed	FAC-NFC
<i>Cranichis muscosa</i>	Moss orchid, Cypressknee helmet orchid	O-NFC
<i>Crossopetalum ilicifolium</i>	Quailberry, Christmasberry	O-NFC
<i>Crossopetalum rhacoma</i>	Rhacoma, Maidenberry	O-NFC
<i>Croton glandulosus</i>	Vente conmigo	FAC-NFC
<i>Croton linearis</i>	Pineland croton, Grannybush	FAC-NFC
<i>Croton lobatus</i>	Lobed croton	FAC-NFC
<i>Crotalaria pumila</i>	Low rattlebox	FAC-NFC
<i>Crotalaria rotundifolia</i>	Rabbitbells	O-NFC
<i>Ctenitis sloanei</i>	Florida tree fern, Red-hair comb fern	O-NFC
<i>Ctenitis submarginalis</i>	Brown-hair comb fern	O-NFC
<i>Cynanchum blodgettii</i>	Blodgett's swallowwort	O-NFC
<i>Cynanchum scoparium</i>	Hairnetvine, Leafless swallowwort	FAC-NFC
<i>Cyperus compressus</i>	Poorland flatsedge	FAC
<i>Cyperus croceus</i>	Baldwin's flatsedge	R
<i>Cyperus filiculmis</i>	Wiry flatsedge	O-NFC
<i>Cyperus floridanus</i>	Florida flatsedge	FAC-NFC
<i>Cyperus ligularis</i>	Swamp flatsedge	FAC
<i>Cyperus planifolius</i>	Flatleaf flatsedge	FAC-NFC
<i>Cyperus tetragonus</i>	Fourangle flatsedge	O-NFC
<i>Dalbergia brownii</i>	Brown's Indian rosewood	FAC-NFC
<i>Dalea carnea</i>	Whitetassels	O-NFC
<i>Dalea carthagenensis</i> var. <i>floridana</i>	Florida prairieclover	FAC-NFC
<i>Desmodium floridanum</i>	Florida ticktrefoil	O-NFC
<i>Desmodium incanum</i>	Beggar's-ticks	R
<i>Desmodium lineatum</i>	Sand tricktrefoil	O-NFC
<i>Desmodium marilandicum</i>	Smooth ticktrefoil	O-NFC
<i>Desmodium paniculatum</i>	Panicledleaf ticktrefoil	?

<i>Desmodium strictum</i>	Pinebarren ticktrefoil	?
<i>Desmanthus virgatus</i>	Wild tantan	FAC
<i>Dichantherium aciculare</i>	Needleleaf witch grass	O-NFC
<i>Dichantherium commutatum</i>	Variable witchgrass	FAC-NFC
<i>Dichantherium ensifolium</i> var. <i>unciphyllum</i>	Cypress witchgrass	O-NFC
<i>Dichantherium laxiflorum</i>	Openflower witchgrass	O-NFC
<i>Dichantherium ovale</i>	Eggleaf witchgrass	O-NFC
<i>Dichantherium portoricense</i>	Hemlock witchgrass	O-NFC
<i>Dichantherium strigosum</i> var. <i>glabrescens</i>	Glabrescent roughhair witchgrass	O-NFC
<i>Dicliptera sexangularis</i>	False-mint, Sixangle foldingwing	FAC-NFC
<i>Digitaria ciliaris</i>	Southern crabgrass	R
<i>Digitaria filiformis</i> var. <i>dolichophylla</i>	Caribbean crabgrass	O-NFC
<i>Digitaria pauciflora</i>	Everglades crabgrass, Twospike crabgrass	O-NFC
<i>Diodia teres</i>	Poor joe, Rough buttonweed	FAC
<i>Diospyros virginiana</i>	Persimmon, Common persimmon	O-NFC
<i>Dodonaea angustifolia</i>	Narrow varnishleaf	FAC-NFC
<i>Drymaria cordata</i>	West Indian chickweed, Drymary	FAC
<i>Drypetes lateriflora</i>	Guiana-plum	O-NFC
<i>Dyschoriste angusta</i>	Rockland twinflower, Pineland snakeherb	O-NFC
<i>Echites umbellata</i>	Devil's-potato, Rubbervine	O-NFC
<i>Encyclia cochleata</i>	Clamshell orchid, cockleshell orchid	O-NFC
<i>Encyclia tampensis</i>	Florida butterfly orchid	O-NFC
<i>Epidendrum floridense</i>	Umbrella star orchid	O-NFC
<i>Epidendrum nocturnum</i>	Night-blooming epidendrum, Night-scented	O-NFC

	orch	
<i>Epidendrum rigidum</i>	Stiff-flower star orchid	O-NFC
<i>Eragrostis elliottii</i>	Elliott's love grass	FAC-NFC
<i>Erechtites hieracifolia</i>	Fireweed, American burnweed	FAC
<i>Erigeron quercifolius</i>	Southern-fleabane, Oakleaf fleabane	FAC-NFC
<i>Eriochloa michauxii</i>	Longleaf cup grass, Michaux's cup grass	O-NFC
<i>Erithalis fruticosa</i>	Blacktorch	FAC-NFC
<i>Ernodea cokeri</i>	Coker's beach creeper	O-NFC
<i>Ernodea littoralis</i>	Beach-creeper, Coughbush	FAC-NFC
<i>Eryngium baldwinii</i>	Baldwin's eryngo	O-NFC
<i>Erythrina herbacea</i>	Coral-bean, Cherokee bean	O-NFC
<i>Erythrodes querceticola</i>	Jug orchid	O-NFC
<i>Eugenia axillaris</i>	White stopper	O-NFC
<i>Eugenia confusa</i>	Ironwood, Redberry stopper	O-NFC
<i>Eugenia foetida</i>	Spanish stopper, Boxleaf stopper	O-NFC
<i>Eulophia alta</i>	Wild-coco	FAC-NFC
<i>Eupatorium capillifolium</i>	Dog-fennel	R
<i>Eupatorium compositifolium</i>	Dog fennel, Yankeeweed	FAC-NFC
<i>Eupatorium leptophyllum</i>	Falsefennel	O-NFC
<i>Eupatorium mikanioides</i>	Semaphore eupatorium, Semaphore thoroughwort	O-NFC
<i>Eupatorium mohrii</i>	Mohr's thoroughwort	O-NFC
<i>Eupatorium serotinum</i>	Lateflowering thoroughwort	FAC-NFC
<i>Euphorbia polyphylla</i>	Pineland euphorbia, Lesser Florida spurge	O-NFC
<i>Eustachys glauca</i>	Prairie fingergrass, Saltmarsh fingergrass	FAC-NFC
<i>Eustachys petraea</i>	Common fingergrass,	FAC-NFC

	Pinewoods fingergrass	
<i>Evolvulus sericeus</i>	Silver dwarf morningglory	O-NFC
<i>Exothea paniculata</i>	Inkwood, Butterbough	O-NFC
<i>Ficus aurea</i>	Strangler fig, Golden fig	FAC-NFC
<i>Ficus citrifolia</i>	Short-leaf fig, Wild banyan tree	O-NFC
<i>Fimbristylis caroliniana</i>	Carolina fimbry	?
<i>Flaveria linearis</i>	Narrowleaf yellowtops	FAC-NFC
<i>Flaveria trinervia</i>	Annual yellowtop, Clustered yellowtops	R
<i>Forestiera segregata</i>	Florida privet, Florida swampprivet	FAC-NFC
<i>Galactia floridana</i>	Hairy milkpea	O-NFC
<i>Galactia pinetorum</i>	Pineland milkpea	O-NFC
<i>Galactia regularis</i>	Eastern milkpea	FAC-NFC
<i>Galactia smallii</i>	Small's milkpea	O-NFC
<i>Galactia striata</i>	Florida hammock milkpea	FAC-NFC
<i>Galactia volubilis</i>	Downy milkpea	FAC-NFC
<i>Galeandra beyrichii</i>	Beyrich's hooded orchid	O-NFC
<i>Galium hispidulum</i>	Coastal bedstraw	FAC-NFC
<i>Gaura angustifolia</i>	Southern gaura, Southern beeblossum	FAC
<i>Genipa clusiifolia</i>	Sevenyear-apple, Sevenyear apple	FAC-NFC
<i>Glandularia maritima</i>	Beach verbena, Coastal mock vervain	O-NFC
<i>Gnaphalium obtusifolium</i>	Rabbit's tobacco, Sweet everlasting	FAC-NFC
<i>Gouania lupuloides</i>	Chewstick, Whiteroot	FAC-NFC
<i>Guapira discolor</i>	Blolly, Beefree	FAC-NFC
<i>Guettarda elliptica</i>	Everglades velvetseed, Hammock velvetseed	O-NFC
<i>Guettarda scabra</i>	Rough velvetseed	FAC-NFC
<i>Guzmania monostachia</i>	West Indian tufted airplant	O-NFC
<i>Gyminda latifolia</i>	West Indian false boxwood	O-NFC

<i>Gymnopogon ambiguus</i>	Bearded skeleton grass	O-NFC
<i>Gymnopogon brevifolius</i>	Slim skeleton grass, Shortleaf skeleton grass	O-NFC
<i>Gymnanthes lucida</i>	Crabwood, Oysterwood	O-NFC
<i>Habenaria floribunda</i>	Rein orchid, Toothpetal false reinorchid	FAC-NFC
<i>Habenaria quinqueseta</i>	Longhorn false reinorchid	O-NFC
<i>Hamelia patens</i>	Firebush	FAC-NFC
<i>Hedyotis nigricans</i> var. <i>floridana</i>	Florida diamond flowers	FAC-NFC
<i>Hedyotis procumbens</i>	Innocence, Roundleaf bluet	FAC-NFC
<i>Helenium flexuosum</i>	Sneezeweed, Purple sneezeweed	O-NFC
<i>Heliotropium angiospermum</i>	Scorpionstail	FAC-NFC
<i>Helianthemum corymbosum</i>	Pinebarren frostweed	O-NFC
<i>Heliotropium polyphyllum</i>	Pineland heliotrope	FAC-NFC
<i>Herissantia crispa</i>	Bladdermallow	FAC-NFC
<i>Heteropogon contortus</i>	Tanglehead	FAC
<i>Heterotheca subaxillaris</i>	Camphorweed	FAC
<i>Hieracium megacephalon</i>	Coastal plain hawkweed	O-NFC
<i>Hippomane mancinella</i>	Manchineel	O-NFC
<i>Hippocratea volubilis</i>	Medicine vine	O-NFC
<i>Hymenocallis palmeri</i>	Alligatorlily	O-NFC
<i>Hypericum hypericoides</i>	St. Andrew's-cross	FAC-NFC
<i>Hypoxis sessilis</i>	Glossyseed yellow stargrass	O-NFC
<i>Hypoxis wrightii</i>	Bristleseed yellow stargrass	O-NFC
<i>Hyptis alata</i>	Musky mint, Clustered bushmint	FAC-NFC
<i>Ilex cassine</i>	Dahoon holly, Dahoon	O-NFC
<i>Ilex glabra</i>	Gallberry, Inkberry	O-NFC
<i>Ilex krugiana</i>	Krug's holly, Tawnyberry holly	O-NFC

<i>Imperata brasiliensis</i>	Congongrass, Brazilian satintail	FAC-NFC
<i>Indigofera miniata</i> var. <i>florida</i>	Florida coastal indigo	FAC
<i>Indigofera mucronata</i> var. <i>keyensis</i>	Florida Keys indigo	O-NFC
<i>Ipomoea alba</i>	Common moonflowers, Moonflowers	FAC-NFC
<i>Ipomoea cordatotriloba</i>	Tievine	R
<i>Ipomoea indica</i> var. <i>acuminata</i>	Ocean-blue morningglory	FAC-NFC
<i>Jacquemontia curtisii</i>	Pineland clustervine	FAC-NFC
<i>Jacquemontia pentanthos</i>	Skyblue clustervine	FAC-NFC
<i>Juncus megacephalus</i>	Bighead rush	FAC-NFC
<i>Justicia angusta</i>	Narrow-leaved waterwillow	FAC-NFC
<i>Koanophyllon villosum</i>	Shrub eupatorium	FAC-NFC
<i>Krugiodendron ferreum</i>	Black ironwood, Leadwood	O-NFC
<i>Lactuca graminifolia</i>	Grassleaf lettuce	FAC-NFC
<i>Lantana canescens</i>	Hammock lantana, Hammock shrubverbena	O-NFC
<i>Lantana depressa</i>	Pineland lantana, Rockland shrubverbena	O-NFC
<i>Lantana involucrata</i>	Wild-sage, Buttonsage	FAC-NFC
<i>Lasiacis divaricata</i>	Smallcane, Florida tibisee	O-NFC
<i>Lechea deckertii</i>	Deckert's pinweed	O-NFC
<i>Lechea divaricata</i>	Drysand pinweed	O-NFC
<i>Lechea sessiliflora</i>	Pineland pinweed	O-NFC
<i>Lechea torreyi</i>	Piedmont pinweed	O-NFC
<i>Leersia monandra</i>	Bunch cutgrass	O-NFC
<i>Leiphaimos parasitica</i>	Parasitic ghostplant	O-NFC
<i>Lepidium virginicum</i>	Poor-man's-pepper, Virginia pepperweed	R
<i>Liatis chapmanii</i>	Chapman's gayfeather	O-NFC
<i>Liatis gracilis</i>	Slender gayfeather	O-NFC
<i>Liatis tenuifolia</i>	Shortleaf gayfeather	O-NFC

<i>Licania michauxii</i>	Gopher-apple	O-NFC
<i>Licaria triandra</i>	Gulf licaria, Pepperleaf sweetwood	O-NFC
<i>Lindernia dubia</i> var. <i>anagallidea</i>	Yellowseed false-pimpernel	FAC-NFC
<i>Linum arenicola</i>	Sand flax	FAC-NFC
<i>Linum carteri</i>	Carter's flax	FAC-NFC
<i>Linum carteri</i> var. <i>smallii</i>	Small's flax	FAC-NFC
<i>Linum medium</i> var. <i>texanum</i>	Stiff yellow flax	?
<i>Lobelia paludosa</i>	White lobelia	O-NFC
<i>Lomariopsis kunzeana</i>	Holly vine fern	O-NFC
<i>Ludwigia microcarpa</i>	Smallfruit primrosewillow	FAC-NFC
<i>Ludwigia octovalvis</i>	Mexican primrosewillow	FAC
<i>Ludwigia repens</i>	Creeping primrosewillow	FAC-NFC
<i>Lyonia fruticosa</i>	Coastalplain staggerbush	O-NFC
<i>Lyonia lucida</i>	Fetterbush	O-NFC
<i>Lysiloma latisiliquum</i>	Wild-tamarind, False tamarind	FAC-NFC
<i>Macradenia lutescens</i>	Longgland orchid	O-NFC
<i>Magnolia virginiana</i>	Sweet-bay	O-NFC
<i>Mecardonia acuminata</i> subsp. <i>peninsularis</i>	Axilflower	FAC-NFC
<i>Melanthera angustifolia</i>	Prairie blackanthers	O-NFC
<i>Melanthera nivea</i>	Snow squarestem	FAC-NFC
<i>Melanthera parvifolia</i>	Pineland blackanthers	FAC-NFC
<i>Melothria pendula</i>	Creeping-cucumber	FAC
<i>Melochia tomentosa</i>	Woolly pyramidflower, Teabush, Broomwood	O-NFC
<i>Metopium toxiferum</i>	Poisonwood, Florida poisons tree	FAC-NFC
<i>Microgramma heterophylla</i>	Climbing vine fern	O-NFC
<i>Mikania cordifolia</i>	Florida Keys hempvine	FAC-NFC
<i>Mikania scandens</i>	Climbing hempweed, Climbing hempvine	FAC-NFC

<i>Mimosa quadrivalvis</i> var. <i>angustata</i>	Sensitive brier	O-NFC
<i>Mitreola petiolata</i>	Miterwort, Lax hornpod	FAC-NFC
<i>Mitreola sessilifolia</i>	Mitrewort, Swamp hornpod	FAC-NFC
<i>Morinda royoc</i>	Yellowroot, Redgal, Mouse's pineapple	FAC-NFC
<i>Morus rubra</i>	Red mulberry	O-NFC
<i>Muhlenbergia capillaris</i>	Muhlygrass, Hairawnmuhly	O-NFC
<i>Myrcianthes fragrans</i>	Twinberry, Simpson's stopper	?
<i>Myrica cerifera</i>	Wax myrtle, Southern Bayberry	FAC-NFC
<i>Nama jamaicense</i>	Jamaicanweed	?
<i>Nephrolepis biserrata</i>	Giant sword fern	O-NFC
<i>Nephrolepis exaltata</i>	Wild Boston fern	FAC-NFC
<i>Neptunia pubescens</i>	Tropical-puff	FAC-NFC
<i>Ocimum campechianum</i>	Wild basil, Wild sweet basil	FAC-NFC
<i>Ocotea coriacea</i>	Lancewood	O-NFC
<i>Odontosoria clavata</i>	Wedgelet fern	FAC-NFC
<i>Opuntia stricta</i>	Erect pricklypear	FAC-NFC
<i>Oxalis corniculata</i>	Lady's-sorrel, Common yellow woodsorrel	R
<i>Palafoxia feayi</i>	Feay's palafox	O-NFC
<i>Palafoxia integrifolia</i>	Coastalplain palafox	O-NFC
<i>Panicum dichotomiflorum</i> var. <i>bartowense</i>	Hairy fall panic grass	FAC
<i>Panicum dichotomiflorum</i>	Fall panic grass	FAC-NFC
<i>Panicum tenerum</i>	Bluejoint panicum	O-NFC
<i>Panicum virgatum</i>	Switchgrass	FAC-NFC
<i>Parietaria floridana</i>	Florida pellitory	FAC
<i>Parietaria praetermissa</i>	Clustered pellitory	?
<i>Parthenocissus quinquefolia</i>	Virginia-creeper, Woodbine	FAC-NFC
<i>Paspalum blodgettii</i>	Coral paspalum, Blodgett's crowngrass	FAC-NFC

<i>Paspalum caespitosum</i>	Blue paspalum, Blue crowngrass	FAC-NFC
<i>Paspalum monostachyum</i>	Gulfdune paspalum	O-NFC
<i>Paspalum setaceum</i>	Thin paspalum	FAC
<i>Passiflora pallens</i>	Pineland passionflower	O-NFC
<i>Passiflora sexflora</i>	Goatsfoot	O-NFC
<i>Passiflora suberosa</i>	Corksystem passionflower	FAC-NFC
<i>Pectis glaucescens</i>	Tea-blinkum, Sanddune cinchweed	FAC
<i>Pelexia adnata</i>	Hachueta	O-NFC
<i>Penstemon multiflorus</i>	Manyflower beardtongue	O-NFC
<i>Pentalinon luteum</i>	Wild-allamanda, Hammock viperstail	FAC-NFC
<i>Peperomia magnoliifolia</i>	Spoonleaf peperomia	O-NFC
<i>Peperomia obtusifolia</i>	Florida peperomia, Baby rubberplant	?
<i>Persea borbonia</i>	Red bay	O-NFC
<i>Persea palustris</i>	Swamp bay	O-NFC
<i>Petiveria alliacea</i>	Guinea hen weed	FAC-NFC
<i>Phaseolus polystachios</i> var. <i>sinuatus</i>	Thicket bean	O-NFC
<i>Phlebodium aureum</i>	Golden polypody	FAC-NFC
<i>Phyllanthus caroliniensis</i> subsp. <i>saxicola</i>	Rock Carolina leafflower	FAC-NFC
<i>Phyla nodiflora</i>	Frog fruit, Turkey tangle fogfruit, Capeweed	FAC
<i>Phyllanthus pentaphyllus</i> var. <i>floridanus</i>	Florida five-petalled leafflower	FAC-NFC
<i>Phyla stoechadifolia</i>	Southern fogfruit	FAC-NFC
<i>Physalis angustifolia</i>	Coastal groundcherry	?
<i>Physostegia purpurea</i>	False dragonhead, Eastern false dragonhead	O-NFC
<i>Physalis walteri</i>	Walter's groundcherry	FAC-NFC
<i>Phytolacca americana</i>	American pokeweed	FAC-NFC
<i>Picramnia pentandra</i>	Florida bitterbush	O-NFC

<i>Pilea herniarioides</i>	Caribbean clearweed	?
<i>Pilea microphylla</i>	Artillery plant, Rockweed	FAC
<i>Piloblephis rigida</i>	Wild pennyroyal	O-NFC
<i>Pinguicula pumila</i>	Small butterwort	O-NFC
<i>Pinus elliottii</i> var. <i>densa</i>	South Florida slash pine	FAC-NFC
<i>Piriqueta caroliniana</i>	Pitted stripeseed	FAC-NFC
<i>Piscidia piscipula</i>	Jamaica-dogwood, Florida fishpoison tree	FAC-NFC
<i>Pisonia aculeata</i>	Devil's claws, Pullback	?
<i>Pithecellobium keyense</i>	Florida Keys blackbead	FAC-NFC
<i>Pityopsis graminifolia</i>	Narrowleaf silkgrass	FAC-NFC
<i>Pleopeltis polypodioides</i> var. <i>michauxiana</i>	Resurrection fern	FAC-NFC
<i>Pluchea carolinensis</i>	Cure-for-all	R
<i>Pluchea odorata</i>	Sweetscent	FAC-NFC
<i>Pluchea rosea</i>	Rosy camphorweed	FAC-NFC
<i>Plumbago scandens</i>	Wild plumbago, Doctorbush	?
<i>Poinsettia cyathophora</i>	Paintedleaf, Fire-on-the-mountain	FAC
<i>Poinsettia heterophylla</i>	Fiddler's spurge, Mexican fireplant	R
<i>Poinsettia pinetorum</i>	Pineland poinsettia, Pineland spurge	O-NFC
<i>Polanisia tenuifolia</i>	Slenderleaf clammyweed	FAC-NFC
<i>Polygala boykinii</i>	Boykin's milkwort	O-NFC
<i>Polygonella ciliata</i>	Hairy jointweed	FAC-NFC
<i>Polystachya concreta</i>	Greater yellowspike orchid	O-NFC
<i>Polygonella gracilis</i>	Tall jointweed	FAC-NFC
<i>Polygala grandiflora</i>	Candyweed, Showy milkwort	FAC-NFC
<i>Polygala incarnata</i>	Procession flower	O-NFC
<i>Polygonella polygama</i> var. <i>brachystachya</i>	Thinleaf October flower	FAC-NFC
<i>Polygonella polygama</i>	Wideleaf October flower	FAC-NFC

<i>Polypremum procumbens</i>	Rustweed, Juniperleaf	R
<i>Polygala smallii</i>	Small's milkwort, Tiny polygala	O-NFC
<i>Ponthieva brittoniae</i>	Britton's ponthieva, Britton's shadow witch	O-NFC
<i>Ponthieva racemosa</i>	Hairy shadow witch	O-NFC
<i>Portulaca oleracea</i>	Purslane, Little hogweed	FAC
<i>Prescotia oligantha</i>	Small prescott orchid	O-NFC
<i>Prunus myrtifolia</i>	West Indian cherry	O-NFC
<i>Psidium longipes</i>	Longstalked-stopper	O-NFC
<i>Psilotum nudum</i>	Whisk-fern	FAC-NFC
<i>Psychotria ligustrifolia</i>	Bahama wild coffee	O-NFC
<i>Psychotria nervosa</i>	Shiny-leaved wild-coffee	FAC-NFC
<i>Psychotria sulzneri</i>	Shortleaf wild coffee	O-NFC
<i>Pteridium aquilinum</i> var. <i>caudatum</i>	Lacy braken fern	FAC-NFC
<i>Pteris bahamensis</i>	Bahama ladder brake	FAC-NFC
<i>Pteroglossaspis ecristata</i>	Giant orchid	O-NFC
<i>Pterocaulon pycnostachyum</i>	Blackroot	O-NFC
<i>Quercus chapmanii</i>	Chapman's oak	O-NFC
<i>Quercus geminata</i>	Sand live oak	O-NFC
<i>Quercus laurifolia</i>	Laurel oak, Diamond oak	FAC-NFC
<i>Quercus minima</i>	Dwarf live oak	O-NFC
<i>Quercus myrtifolia</i>	Myrtle oak	O-NFC
<i>Quercus pumila</i>	Running oak	O-NFC
<i>Quercus virginiana</i>	Virginia live oak	FAC-NFC
<i>Quercus xrolfsii</i>	Rolfs' oak	O-NFC
<i>Randia aculeata</i>	White indigoberry	FAC-NFC
<i>Rapanea punctata</i>	Myrsine, Colicwood	FAC-NFC
<i>Reynosia septentrionalis</i>	Darlingplum	FAC-NFC
<i>Rhus copallinum</i>	Winged sumac	FAC-NFC
<i>Rhynchosia cinerea</i>	Brownhair snoutbean	O-NFC
<i>Rhynchospora colorata</i>	Starrush whitetop	FAC-NFC

<i>Rhynchospora divergens</i>	Spreading beaksedge	FAC-NFC
<i>Rhynchospora floridensis</i>	Florida whitetop	FAC-NFC
<i>Rhynchospora globularis</i>	Globe beak-rush	FAC-NFC
<i>Rhynchospora grayi</i>	Gray's beaksedge	O-NFC
<i>Rhynchosia michauxii</i>	Michaux's snoutbean	O-NFC
<i>Rhynchosia minima</i>	Least snoutbean	FAC
<i>Rhynchosia parvifolia</i>	Small-leaf snoutbean	O-NFC
<i>Rhynchospora plumosa</i>	Plumed beaksedge	O-NFC
<i>Rhynchospora pusilla</i>	Fairy beaksedge	?
<i>Rhynchosia reniformis</i>	Dollarweed, Dollarleaf	O-NFC
<i>Rhynchosia swartzii</i>	Swartz's snoutbean	O-NFC
<i>Rivina humilis</i>	Rougeplant	FAC-NFC
<i>Roystonea regia</i>	Royal palm, Florida royal palm	?
<i>Ruellia succulenta</i>	Thickleaf wild petunia	O-NFC
<i>Sabal etonia</i>	Scrub palmetto	O-NFC
<i>Sabal palmetto</i>	Cabbage palm	FAC-NFC
<i>Sabatia stellaris</i>	Rose-of-Plymouth	FAC-NFC
<i>Sachsia polycephala</i>	Bahama sachsia	O-NFC
<i>Sacoila lanceolata</i> var. <i>paludicola</i>	Leafless beaked lady's-tresses	O-NFC
<i>Salix caroliniana</i>	Coastal Plain willow	FAC-NFC
<i>Salvia micrantha</i>	Blodgett's sage, Yucatan sage	?
<i>Samolus ebracteatus</i>	Water pimpernel, Limewater brookweed	FAC-NFC
<i>Sapindus saponaria</i>	Soapberry	FAC-NFC
<i>Sarcostemma clausum</i>	Whitevine, White twinevine	FAC
<i>Schaefferia frutescens</i>	Florida boxwood	O-NFC
<i>Schizachyrium gracile</i>	Wire bluestem	FAC-NFC
<i>Schizaea pennula</i>	Ray fern	O-NFC
<i>Schizachyrium rhizomatum</i>	Rhizomatus bluestem	O-NFC
<i>Schizachyrium sanguineum</i>	Crimson bluestem	FAC-NFC



<i>Schoepfia chrysophylloides</i>	Gulf graytwig, Graytwig	O-NFC
<i>Schoenus nigricans</i>	Black sedge, Black bogrush	O-NFC
<i>Scleria ciliata</i>	Fringed nutrush	FAC-NFC
<i>Scleria ciliata</i> var. <i>curtissii</i>	Curtiss' nutrush	O-NFC
<i>Scleria lithosperma</i>	Florida Keys nutrush	FAC-NFC
<i>Scleria verticillata</i>	Low nutrush	FAC-NFC
<i>Scutellaria havanensis</i>	Havana skullcap	FAC-NFC
<i>Selaginella arenicola</i>	Sand spike-moss	FAC-NFC
<i>Selaginella armata</i> var. <i>eatonii</i>	Eaton's spike-moss	FAC-NFC
<i>Senna ligustrina</i>	Privet senna, Privet wild sensitive plant	FAC-NFC
<i>Senna mexicana</i> var. <i>chapmanii</i>	Bahama senna, Chapman's wild sensitive plant	O-NFC
<i>Senna obtusifolia</i>	Sicklepod, Coffeeweed	R
<i>Serenoa repens</i>	Saw palmetto	O-NFC
<i>Setaria macrosperma</i>	Coastal foxtail, Coral bristlegrass	FAC-NFC
<i>Setaria parviflora</i>	Knotroot foxtail, Yellow bristlegrass	FAC-NFC
<i>Seymeria pectinata</i>	Piedmont blacksenna	O-NFC
<i>Sida acuta</i>	Common wireweed, Common fanpetals	R
<i>Sida elliotii</i>	Elliott's fanpetals	O-NFC
<i>Sida rhombifolia</i>	Cuban jute, Indian hemp	R
<i>Sideroxylon celastrinum</i>	Saffronplum	O-NFC
<i>Sideroxylon foetidissimum</i>	Wild mastic, False mastic	O-NFC
<i>Sideroxylon reclinatum</i> subsp. <i>austrofloridense</i>	Everglades bully	O-NFC
<i>Sideroxylon reclinatum</i>	Recline Florida bully	O-NFC
<i>Sideroxylon salicifolium</i>	Willow-bustic, White bully	FAC-NFC
<i>Simarouba glauca</i>	Paradisetree	O-NFC
<i>Sisyrinchium angustifolium</i>	Narroleaf blueeyed-grass	FAC-NFC

<i>Sisyrinchium nashii</i>	Nash's blueeyed-grass	O-NFC
<i>Smilax auriculata</i>	Earleaf greenbrier	FAC-NFC
<i>Smilax bona-nox</i>	Saw greenbrier	FAC-NFC
<i>Smilax havanensis</i>	Havana greenbrier, Everglades greenbrier	O-NFC
<i>Smilax laurifolia</i>	Catbrier, Laurel greenbrier, Bamboo vine	O-NFC
<i>Solanum americanum</i>	Common nightshade, American black nightshade	R
<i>Solanum chenopodioides</i>	Black nightshade	FAC-NFC
<i>Solanum erianthum</i>	Potatotree	FAC-NFC
<i>Solanum verbascifolium</i>	Mullein nightshade	FAC-NFC
<i>Solidago gigantea</i>	Giant goldenrod	FAC-NFC
<i>Solidago odora</i> var. <i>chapmanii</i>	Chapman's goldenrod	O-NFC
<i>Solidago stricta</i>	Narrow-leaved goldenrod, Wand goldenrod	FAC-NFC
<i>Solidago tortifolia</i>	Twistedleaf goldenrod	O-NFC
<i>Sophora tomentosa</i> var. <i>truncata</i>	Yellow necklacepod	FAC-NFC
<i>Sorghastrum secundum</i>	Lopsided Indiangrass	FAC-NFC
<i>Spermacoce assurgens</i>	Woodland false buttonweed	R
<i>Spermacoce prostrata</i>	Prostrate false buttonweed	FAC-NFC
<i>Spermacoce terminalis</i>	Everglades Keys false buttonweed	O-NFC
<i>Spermacoce tetraquetra</i>	Pineland false buttonweed	FAC
<i>Spiranthes amesiana</i>		O-NFC
<i>Spiranthes costaricensis</i>	Costa Rican lady's-tresses	O-NFC
<i>Spiranthes cranichoides</i>	Cranichis lady's-tresses	O-NFC
<i>Spiranthes elata</i>	Tall neottia, Tall lady's-tresses	O-NFC
<i>Spiranthes torta</i>	Southern lady's-tresses	O-NFC
<i>Sporobolus compositus</i> var. <i>clandestinus</i>	Hidden dropseed	FAC-NFC
<i>Sporobolus junceus</i>	Pineywoods dropseed	O-NFC

<i>Stachytarpheta jamaicensis</i>	Blue porterweed, Joee	FAC
<i>Stenandrium dulce</i>	Pinklet	O-NFC
<i>Stillingia sylvatica</i>	Queensdelight	O-NFC
<i>Stylosanthes calcicola</i>	Everglades key pencilflower	O-NFC
<i>Stylosanthes hamata</i>	Pencilflower, Cheesytoes	R
<i>Stylisma villosa</i>	Hairy dawnflower	FAC-NFC
<i>Swietenia mahagoni</i>	West Indian mahogany	FAC-NFC
<i>Tectaria coriandrifolia</i>	Hairy halberd fern	O-NFC
<i>Tectaria fimbriata</i>	Least halbard fern	O-NFC
<i>Tectaria heracleifolia</i>	Broad halbard fern	O-NFC
<i>Tectaria xamesiana</i>	Ames' halberd fern	O-NFC
<i>Tephrosia angustissima</i>	Narrowleaf hoarypea	O-NFC
<i>Tephrosia angustissima</i> var. <i>corallicola</i>	Coral hoarypea	FAC-NFC
<i>Tephrosia chrysophylla</i>	Scurf hoarypea	O-NFC
<i>Tephrosia florida</i>	Florida hoarypea	O-NFC
<i>Tephrosia spicata</i>	Spiked hoarypea	O-NFC
<i>Tetrazygia bicolor</i>	West Indian-lilac, Florida clover ash	O-NFC
<i>Teucrium canadense</i>	Wood sage, Canadian germander	FAC-NFC
<i>Thelypteris augescens</i>	Abrupt-tip maiden fern	FAC-NFC
<i>Thelypteris hispidula</i> var. <i>versicolor</i>	Hairy maiden fern	FAC-NFC
<i>Thelypteris kunthii</i>	Southern shield fern	FAC-NFC
<i>Thelypteris ovata</i>	Ovate maiden fern	FAC-NFC
<i>Thelypteris patens</i>	Grid-scale maiden fern	O-NFC
<i>Thelypteris sclerophylla</i>	Stiff star-hair fern	O-NFC
<i>Tillandsia balbisiana</i>	Reflexed wild-pine, Northern needleleaf	FAC-NFC
<i>Tillandsia fasciculata</i> var. <i>densispica</i>	Stiff-leaved wild-pine, Cardinal airplant	FAC-NFC
<i>Tillandsia fasciculata</i>	Cardinal airplant	O-NFC

<i>Tillandsia flexuosa</i>	Banded wild-pine, Twisted airplant	O-NFC
<i>Tillandsia paucifolia</i>	Twisted wild-pine, Potbelly airplant	FAC-NFC
<i>Tillandsia recurvata</i>	Ball-moss	FAC-NFC
<i>Tillandsia setacea</i>	Thin-leaved wild-pine, Southern needleleaf	FAC-NFC
<i>Tillandsia usneoides</i>	Spanish-moss	FAC-NFC
<i>Tillandsia utriculata</i>	Giant wild-pine, Giant airplant	FAC-NFC
<i>Tillandsia variabilis</i>	Soft-leaved wild-pine, Leatherleaf airplant	O-NFC
<i>Tillandsia xsmalliana</i>	Reddish wild-pine	O-NFC
<i>Tournefortia hirsutissima</i>	Chiggery grapes	O-NFC
<i>Tournefortia volubilis</i>	Twining soldierbush	FAC-NFC
<i>Toxicodendron radicans</i>	Eastern poison-ivy	FAC-NFC
<i>Tragia saxicola</i>	Florida Keys noseburn	O-NFC
<i>Tragia urens</i>	Wavyleaf noseburn	FAC-NFC
<i>Trema lamarckianum</i>	West Indian trema, Pain-in-the-back	FAC-NFC
<i>Trema micranthum</i>	Florida trema, Nettle tree	FAC-NFC
<i>Trichostema dichotomum</i>	Forked bluecurls	FAC-NFC
<i>Trichomanes krausii</i>	Kraus' bristle fern	O-NFC
<i>Trichomanes punctatum</i> subsp. <i>floridanum</i>	Florida bristle fern	O-NFC
<i>Tridens flavus</i>	Tall redtop, Purpletop tridens	FAC-NFC
<i>Triplasis americana</i>	Perennial sandgrass	FAC-NFC
<i>Tripsacum floridanum</i>	Florida gamagrass	O-NFC
<i>Triphora gentianoides</i>	Gentian noddingcaps	FAC
<i>Triplasis purpurea</i>	Purple sandgrass	FAC-NFC
<i>Tropidia polystachya</i>	Young palm orchid	O-NFC
<i>Urochloa adspersa</i>	Dominican signalgrass	FAC-NFC
<i>Vaccinium myrsinites</i>	Shiny blueberry	O-NFC
<i>Vanilla dilloniana</i>	Leafless vanilla, Mrs. Lott's	O-NFC

	vanilla	
<i>Verbesina virginica</i>	Frostweed, White crownbeard	FAC-NFC
<i>Vernonia blodgettii</i>	Florida ironweed	O-NFC
<i>Vigna luteola</i>	Cow-pea, Hairypod cowpea	FAC
<i>Vitis aestivalis</i>	Summer grape	?
<i>Vitis cinerea</i> var. <i>floridana</i>	Florida grape	FAC-NFC
<i>Vitis rotundifolia</i>	Muscadine	FAC-NFC
<i>Vitis shuttleworthii</i>	Calusa grape	FAC-NFC
<i>Vittaria lineata</i>	Shoestring fern	O-NFC
<i>Waltheria indica</i>	Sleepy morning	FAC
<i>Warea carteri</i>	Carter's pinelandcress	O-NFC
<i>Ximenia americana</i>	Hog-plum, Tallowwood	O-NFC
<i>Yucca aloifolia</i>	Spanish-bayonet, Aloe yucca	?
<i>Zamia integrifolia</i>	Coontie, Florida arrowroot	O-NFC
<i>Zanthoxylum clava-herculis</i>	Hercules'-club	O-NFC
<i>Zanthoxylum coriaceum</i>	Biscayne prickly-ash	O-NFC
<i>Zanthoxylum fagara</i>	Wild-lime, Lime prickly-ash	O-NFC
<i>Zornia bracteata</i>	Shyvine, Viperina	O-NFC

## Appendix 4

### Coefficients of Conservatism

Coefficient	Description
0	Exotic.
1	Ruderal native found almost exclusively in disturbed sites.
2	Primarily ruderal but rarely found in undisturbed sites.
3	Found most commonly in disturbed sites, but occasionally in undisturbed sites.
4	Found frequently in both disturbed and undisturbed sites, but more often in disturbed than undisturbed sites.
5	Found more often in undisturbed sites than disturbed sites and reproducing in disturbed sites, including urban soils.
6	Confined to scraped soils (Krome very gravelly loam) or intact soils, sometimes becoming abundant in scraped soils.
7	Can tolerate some mechanical disturbance and can reproduce afterwards, but found primarily in undisturbed situations.
8	Cannot tolerate clearing, but can persist and reproduce following some minor disturbances, such as hydrological changes, fire suppression, or exotic plant invasions.
9	Cannot tolerate clearing, but can persist following some minor disturbances, such as hydrological changes, fire suppression, or exotic plant invasions.
10	Cannot tolerate any significant ecosystem disturbance.

Scientific Name	Coefficient		
Abildgaardia ovata	6	Annona squamosa	0
Abrus precatorius	0	Antigonon leptopus	0
Acacia auriculiformis	0	Ardisia elliptica	0
Acacia farnesiana	3	Ardisia escallonioides	8
Acacia pinetorum	8	Argythamnia blodgettii	7
Acalypha chamaedrifolia	5	Aristida beyrichiana	9
Acalypha ostryifolia	0	Aristida condensata	9
Acanthocereus tetragonus	8	Aristolochia littoralis	0
Acrocomia aculeata	0	Aristolochia maxima	0
Adenantha pavonina	0	Aristida patula	7
Adiantum anceps	0	Aristolochia pentandra	10
Adiantum caudatum	0	Aristida purpurascens	5
Adiantum melanoleucum	10	Arnoglossum ovatum	9
Adiantum tenerum	7	Asclepias connivens	9
Adiantum trapeziforme	0	Asclepias curassavica	0
Adiantum villosum	10	Asclepias tuberosa	8
Aeschynomene viscidula	7	Asclepias verticillata	8
Agalinis fasciculata	7	Asclepias viridis	8
Agave decipiens	8	Asimina reticulata	8
Agave sisalana	0	Asparagus densiflorus	0
Agdestis clematidea	0	Asparagus setaceus	0
Ageratum houstonianum	0	Asplenium abscissum	10
Ageratina jucunda	8	Asplenium dentatum	10
Albizia lebbeck	0	Asplenium verecundum	10
Aletris bracteata	9	Asplenium xbiscaynianum	10
Aletris lutea	9	Aster adnatus	8
Alstonia macrophylla	0	Aster bracei	5
Alvaradoa amorphoides	8	Aster concolor	8
Alysicarpus vaginalis	0	Aster dumosus	7
Ambrosia artemisiifolia	1	Aster elliottii	8
Amorpha herbacea var. crenulata	8	Aster tortifolius	8
Ampelopsis arborea	5	Ayenia euphrasiifolia	6
Amphitecna latifolia	10	Baccharis angustifolia	5
Amyris balsamifera	10	Baccharis dioica	7
Amyris elemifera	8	Baccharis glomeruliflora	5
Andropogon glomeratus var. pumilus	4	Baccharis halimifolia	5
Andropogon longiberbis	6	Balduina angustifolia	8
Andropogon ternarius	8	Bambusa arundinacea	0
Andropogon tracyi	10	Basiphyllaea corallicola	8
Andropogon virginicus var. decipiens	10	Bauhinia variegata	0
Anemia adiantifolia	7	Begonia hirtella	0
Angadenia berteroi	8	Bejaria racemosa	9
Annona glabra	8	Berlandiera subcaulis	8
		Bidens alba var. radiata	1
		Bischofia javanica	0

<i>Blechnum pyramidatum</i>	0	<i>Campyloneurum costatum</i>	10
<i>Blechnum serrulatum</i>	8	<i>Campyloneurum phyllitidis</i>	10
<i>Bletia patula</i>	10	<i>Canavalia brasiliensis</i>	0
<i>Bletia purpurea</i>	7	<i>Canella winterana</i>	8
<i>Boehmeria cylindrica</i>	5	<i>Capparis cynophallophora</i>	8
<i>Bothriochloa pertusa</i>	0	<i>Capparis flexuosa</i>	8
<i>Bourreria cassinifolia</i>	7	<i>Capraria biflora</i>	4
<i>Bourreria succulenta</i>	9	<i>Capsicum annuum</i> var. <i>glabriusculum</i>	7
<i>Bouteloua hirsuta</i>	6	<i>Capsicum frutescens</i>	0
<i>Brassia caudata</i>	10	<i>Cardiospermum microcarpum</i>	3
<i>Brickellia mosieri</i>	10	<i>Carica papaya</i>	0
<i>Brosimum alicastrum</i>	0	<i>Caryota mitis</i>	0
<i>Broussonetia papyrifera</i>	0	<i>Caryota urens</i>	0
<i>Buchnera americana</i>	5	<i>Cassytha filiformis</i>	7
<i>Bucida buceras</i>	0	<i>Casuarina equisetifolia</i>	0
<i>Bulbostylis barbata</i>	0	<i>Catharanthus roseus</i>	0
<i>Bulbostylis ciliatifolia</i>	8	<i>Catopsis berteroniana</i>	10
<i>Bulbostylis stenophylla</i>	8	<i>Catopsis floribunda</i>	10
<i>Bursera simaruba</i>	7	<i>Cayaponia americana</i>	10
<i>Elephantopus elatus</i>	5	<i>Cecropia palmata</i>	0
<i>Eltroplectris calcarata</i>	10	<i>Celosia nitida</i>	8
<i>Elytraria caroliniensis</i> var. <i>angustifolia</i>	8	<i>Celtis laevigata</i>	9
<i>Emilia fosbergii</i>	0	<i>Cenchrus echinatus</i>	4
<i>Emilia sonchifolia</i>	0	<i>Cenchrus gracillimus</i>	9
<i>Encyclia boothiana</i> var. <i>erythronioides</i>	10	<i>Cenchrus incertus</i>	4
<i>Ipomoea microdactyla</i>	8	<i>Centella asiatica</i>	4
<i>Ipomoea sagittata</i>	8	<i>Centrosema virginianum</i>	7
<i>Ipomoea tenuissima</i>	8	<i>Cestrum diurnum</i>	0
<i>Ipomoea violacea</i>	5	<i>Chamaesyce blodgettii</i>	4
<i>Iresine diffusa</i>	5	<i>Chamaesyce conferta</i>	6
<i>Oncidium ensatum</i>	10	<i>Chamaecrista deeringiana</i>	8
<i>Oncidium undulatum</i>	10	<i>Chamaesyce deltoidea</i> subsp. <i>adhaerens</i>	7
<i>Ophioglossum palmatum</i>	10	<i>Chamaesyce deltoidea</i>	6
<i>Oplismenus hirtellus</i>	6	<i>Chamaesyce deltoidea</i> subsp. <i>pinetorum</i>	9
<i>Opuntia humifusa</i>	7	<i>Chamaecrista fasciculata</i>	8
<i>Byrsonima lucida</i>	8	<i>Chamaesyce garberi</i>	8
<i>Caesalpinia bonduc</i>	5	<i>Chamaesyce hirta</i>	1
<i>Caesalpinia major</i>	8	<i>Chamaesyce hypericifolia</i>	2
<i>Callicarpa americana</i>	7	<i>Chamaesyce hyssopifolia</i>	1
<i>Callisia fragrans</i>	0	<i>Chamaesyce lasiocarpa</i>	0
<i>Calophyllum antillanum</i>	0	<i>Chamaesyce mendezii</i>	1
<i>Calyptranthes pallens</i>	9	<i>Chamaecrista nictitans</i> var. <i>aspera</i>	4
<i>Calyptranthes zuzygium</i>	10		
<i>Campyloneurum angustifolium</i>	10		

<i>Chamaesyce pergamena</i>	8	<i>Conradina grandiflora</i>	8
<i>Chamaesyce porteriana</i>	9	<i>Conyza canadensis</i> var. <i>pusilla</i>	2
<i>Chamaedorea seifrizii</i>	0	<i>Cordia bahamensis</i>	10
<i>Chaptalia albicans</i>	6	<i>Cordia globosa</i>	6
<i>Chiococca alba</i>	7	<i>Cordia sebestena</i>	0
<i>Chiococca parvifolia</i>	7	<i>Coreopsis leavenworthii</i>	7
<i>Chloris elata</i>	6	<i>Cornutia grandifolia</i>	0
<i>Chromolaena odorata</i>	1	<i>Cranichis muscosa</i>	10
<i>Chrysophyllum cainito</i>	0	<i>Crassocephalum crepidioides</i>	0
<i>Chrysobalanus icaco</i>	7	<i>Crossopetalum ilicifolium</i>	8
<i>Chrysopsis linearifolia</i> subsp. <i>dressii</i>	9	<i>Crossopetalum rhacoma</i>	8
<i>Chrysophyllum oliviforme</i>	9	<i>Croton glandulosus</i>	6
<i>Cirsium horridulum</i>	7	<i>Crotalaria incana</i>	0
<i>Cissampelos pareira</i>	8	<i>Croton linearis</i>	7
<i>Cissus verticillata</i>	3	<i>Croton lobatus</i>	7
<i>Citharexylum spinosum</i>	10	<i>Crotalaria pallida</i> var. <i>obovata</i>	0
<i>Citrus aurantifolia</i>	0	<i>Crotalaria pumila</i>	5
<i>Citrus aurantium</i>	0	<i>Crotalaria rotundifolia</i>	8
<i>Citrus limon</i>	0	<i>Crotalaria spectabilis</i>	0
<i>Citrus reticulata</i>	0	<i>Crotalaria verrucosa</i>	0
<i>Citrus sinensis</i>	0	<i>Cryptostegia madagascariensis</i>	0
<i>Citrus xparadisi</i>	0	<i>Ctenitis sloanei</i>	10
<i>Cladium jamaicense</i>	7	<i>Ctenitis submarginalis</i>	10
<i>Clematis baldwinii</i>	9	<i>Cupaniopsis anacardioides</i>	0
<i>Clerodendrum chinense</i>	0	<i>Cycas circinalis</i>	0
<i>Clerodendrum indicum</i>	0	<i>Cynanchum blodgettii</i>	8
<i>Clerodendrum kaempferi</i>	0	<i>Cynanchum scoparium</i>	7
<i>Clerodendrum speciosissimum</i>	0	<i>Cynodon dactylon</i>	0
<i>Clitoria mariana</i>	8	<i>Cyperus compressus</i>	2
<i>Clitoria ternatea</i>	0	<i>Cyperus croceus</i>	2
<i>Clusia rosea</i>	0	<i>Cyperus filiculmis</i>	10
<i>Cnidioscolus stimulosus</i>	8	<i>Cyperus floridanus</i>	6
<i>Coccothrinax argentata</i>	7	<i>Cyperus ligularis</i>	4
<i>Coccoloba diversifolia</i>	9	<i>Cyperus planifolius</i>	6
<i>Coccoloba uvifera</i>	7	<i>Cyperus tetragonus</i>	10
<i>Cocos nucifera</i>	0	<i>Cyrtopodium paranaense</i>	0
<i>Colubrina arborescens</i>	7	<i>Dalbergia brownii</i>	7
<i>Colubrina asiatica</i>	0	<i>Dalbergia sissoo</i>	0
<i>Colubrina cubensis</i> var. <i>floridana</i>	7	<i>Dalea carnea</i>	8
<i>Colubrina elliptica</i>	8	<i>Dalea carthagenensis</i> var. <i>floridana</i>	7
<i>Commelina diffusa</i>	0	<i>Delonix regia</i>	0
<i>Commelina erecta</i>	8	<i>Desmodium floridanum</i>	9
<i>Conoclinium coelestinum</i>	6	<i>Desmodium incanum</i>	2
<i>Conocarpus erectus</i>	7	<i>Desmodium lineatum</i>	10

Desmodium marilandicum	8	Ernodea littoralis	7
Desmodium triflorum	0	Eryngium baldwinii	8
Desmanthus virgatus	4	Erythrina herbacea	8
Dichantherium aciculare	8	Erythrodes querceticola	10
Dichantherium commutatum	7	Eugenia axillaris	8
Dichantherium ensifolium var. unciphyllum	8	Eugenia confusa	9
Dichantherium laxiflorum	8	Eugenia foetida	8
Dichantherium ovale	8	Eugenia uniflora	0
Dichantherium portoricense	8	Eulophia alta	7
Dichantherium strigosum var. glabrescens	8	Eupatorium capillifolium	2
Dicliptera sexangularis	5	Eupatorium compositifolium	7
Digitaria ciliaris	1	Eupatorium leptophyllum	9
Digitaria filiformis var. dolichophylla	8	Eupatorium mikanioides	9
Digitaria pauciflora	9	Eupatorium mohrii	8
Diodia teres	4	Eupatorium serotinum	6
Dioscorea alata	0	Euphorbia graminea	0
Dioscorea bulbifera	0	Euphorbia polyphylla	9
Diospyros digyna	0	Eustachys glauca	5
Diospyros maritima	0	Eustachys petraea	5
Dioscorea sansibarensis	0	Evolvulus sericeus	8
Diospyros virginiana	9	Exothea paniculata	9
Dodonaea angustifolia	7	Fatoua villosa	0
Drypetes lateriflora	10	Ficus altissima	0
Dypsis lutescens	0	Ficus aurea	5
Dyschoriste angusta	8	Ficus citrifolia	8
Echites umbellata	8	Ficus microcarpa	0
Ehretia microphylla	0	Fimbristylis cymosa	0
Elaeis guineensis	0	Flacourtia indica	0
Encyclia cochleata	10	Flaveria linearis	5
Encyclia tampensis	9	Flaveria trinervia	1
Epidendrum floridense	10	Forestiera segregata	5
Epidendrum nocturnum	10	Furcraea foetida	0
Epidendrum rigidum	10	Furcraea selloa	0
Epipremnum pinnatum	0	Galactia floridana	8
Eragrostis cilianensis	0	Galactia pinetorum	8
Eragrostis elliottii	5	Galactia regularis	7
Erechtites hieracifolia	4	Galactia smallii	8
Eremochloa ophiuroides	0	Galactia striata	6
Erigeron quercifolius	5	Galactia volubilis	6
Eriobotrya japonica	0	Galeandra beyrichii	10
Eriochloa michauxii	10	Galium hispidulum	5
Erithalis fruticosa	7	Gaura angustifolia	3
Ernodea cokeri	9	Genipa clusiifolia	7
		Glandularia maritima	8
		Glycosmis parviflora	0



Gnaphalium obtusifolium	7	Indigofera suffruticosa	0
Gouania lupuloides	7	Ipomoea alba	5
Guapira discolor	6	Ipomoea cordatotriloba	1
Guettarda elliptica	8	Ipomoea indica var. acuminata	5
Guettarda scabra	7	Ixora arborea	0
Guzmania monostachia	10	Jacaranda mimosifolia	0
Gyminda latifolia	10	Jacquemontia curtisii	6
Gymnopogon ambiguus	8	Jacquemontia pentanthos	7
Gymnopogon brevifolius	8	Jasminum dichotomum	0
Gymnanthes lucida	8	Jasminum fluminense	0
Habenaria floribunda	7	Juncus megacephalus	7
Habenaria quinqueseta	8	Justicia angusta	7
Hackelochloa granularis	0	Kalanchoe pinnata	0
Hamelia patens	5	Kalanchoe tubiflora	0
Harpullia arborea	0	Koanophyllon villosum	6
Hedyotis nigricans var. floridana	7	Krugiodendron ferreum	9
Hedyotis procumbens	6	Lactuca graminifolia	5
Helenium flexuosum	8	Lantana camara	0
Heliotropium angiospermum	5	Lantana camara x depressa	0
Helianthemum corymbosum	8	Lantana canescens	8
Heliotropium polyphyllum	6	Lantana depressa	8
Herissantia crispa	5	Lantana involucrata	5
Heteropteris beecheyana	0	Lasiacis divaricata	8
Heteropogon contortus	3	Lechea deckertii	8
Heterotheca subaxillaris	3	Lechea divaricata	8
Hibiscus tiliaceus	0	Lechea sessiliflora	8
Hieracium megacephalon	8	Lechea torreyi	8
Hippomane mancinella	9	Leersia monandra	8
Hippocratea volubilis	8	Leiphaimos parasitica	10
Hylocereus undatus	0	Lepianthes umbellata	0
Hymenocallis palmeri	10	Lepidium virginicum	1
Hypparrhenia rufa	0	Leucaena leucocephala	0
Hypericum hypericoides	7	Liatris chapmanii	8
Hypoxis sessilis	10	Liatris gracilis	8
Hypoxis wrightii	10	Liatris tenuifolia	8
Hyptis alata	7	Licania michauxii	8
Ilex cassine	8	Licaria triandra	9
Ilex glabra	8	Lindernia dubia var. anagallidea	5
Ilex krugiana	8	Linum arenicola	6
Imperata brasiliensis	7	Linum carteri	6
Indigofera hirsuta	0	Linum carteri var. smallii	6
Indigofera miniata var. florida	4	Livistona chinensis	0
Indigofera mucronata var. keyensis	8	Lobelia paludosa	10
Indigofera spicata	0	Lomariopsis kunzeana	10
		Ludwigia microcarpa	5

Ludwigia octovalvis	4	Nephrolepis falcata f. furcans	0
Ludwigia repens	5	Nephrolepis hirsutula cv. Superba	0
Lyonia fruticosa	8	Nephrolepis multiflora	0
Lyonia lucida	8	Neptunia pubescens	5
Lysiloma latisiliquum	6	Neyraudia reynaudiana	0
Lysiloma sabicu	0	Ochrosia elliptica	0
Macfadyena unguis-cati	0	Ocimum campechianum	7
Macroptilium lathyroides	0	Ocotea coriacea	8
Macradenia lutescens	10	Odontosoria clavata	7
Macrothelypteris torresiana	0	Oeceoclades maculata	0
Magnolia virginiana	8	Opuntia stricta	7
Mangifera indica	0	Oxalis corniculata	2
Manilkara zapota	0	Pachyrhizus erosus	0
Mecardonia acuminata subsp. peninsularis	6	Paederia cruddasiana	0
Melanthera angustifolia	8	Palafoxia feayi	8
Melanthera nivea	6	Palafoxia integrifolia	8
Melanthera parvifolia	7	Panicum dichotomiflorum var. bartowense	4
Melaleuca quinquenervia	0	Panicum dichotomiflorum	5
Melaleuca viminalis	0	Panicum maximum	0
Melia azedarach	0	Panicum tenerum	10
Melicoccus bijugatus	0	Panicum virgatum	7
Melinis minutiflora	0	Parietaria floridana	4
Melothria pendula	4	Parthenocissus quinquefolia	5
Melochia tomentosa	8	Paspalum blodgettii	6
Merremia dissecta	0	Paspalum caespitosum	6
Merremia tuberosa	0	Paspalum monostachyum	9
Metopium toxiferum	6	Paspalum setaceum	4
Microgramma heterophylla	10	Passiflora biflora	0
Mikania cordifolia	5	Passiflora edulis	0
Mikania scandens	6	Passiflora foetida	0
Mimosa pudica	0	Passiflora pallens	8
Mimosa quadrivalvis var. angustata	8	Passiflora sexflora	8
Mitreola petiolata	5	Passiflora suberosa	5
Mitreola sessilifolia	7	Pectis glaucescens	3
Momordica charantia	0	Pelexia adnata	10
Morinda royoc	7	Pennisetum purpureum	0
Morus rubra	9	Penstemon multiflorus	9
Mucuna pruriens	0	Pentalinon luteum	7
Muhlenbergia capillaris	9	Peperomia amplexicaulis	0
Murraya paniculata	0	Peperomia magnoliifolia	10
Myrica cerifera	5	Persea americana	0
Nephrolepis biserrata	9	Persea borbonia	9
Nephrolepis cordifolia	0	Persea palustris	8
Nephrolepis exaltata	5	Petiveria alliacea	7

<i>Petitia domingensis</i>	0	<i>Polygonella polygama</i> var. <i>brachystachya</i>	7
<i>Phaseolus polystachios</i> var. <i>sinuatus</i>	8	<i>Polygonella polygama</i>	7
<i>Phlebodium aureum</i>	5	<i>Polypremum procumbens</i>	1
<i>Phoenix dactylifera</i>	0	<i>Polygala smallii</i>	8
<i>Phoenix reclinata</i>	0	<i>Pongamia pinnata</i>	0
<i>Phyllanthus caroliniensis</i> subsp. <i>saxicola</i>	6	<i>Ponthieva brittoniae</i>	10
<i>Phyla nodiflora</i>	4	<i>Ponthieva racemosa</i>	10
<i>Phyllanthus pentaphyllus</i> var. <i>floridanus</i>	6	<i>Portulaca oleracea</i>	3
<i>Phyla stoechadifolia</i>	6	<i>Pouteria campechiana</i>	0
<i>Phyllanthus tenellus</i>	0	<i>Premna odorata</i>	0
<i>Phymatosorus scolopendria</i>	0	<i>Prescotia oligantha</i>	10
<i>Physostegia purpurea</i>	10	<i>Prunus myrtifolia</i>	8
<i>Physalis walteri</i>	6	<i>Psidium cattleianum</i>	0
<i>Phytolacca americana</i>	5	<i>Psidium guajava</i>	0
<i>Picramnia pentandra</i>	8	<i>Psidium longipes</i>	8
<i>Pilea microphylla</i>	3	<i>Psilotum nudum</i>	5
<i>Piloblephis rigida</i>	8	<i>Psychotria ligustrifolia</i>	8
<i>Pimenta dioica</i>	0	<i>Psychotria nervosa</i>	5
<i>Pinguicula pumila</i>	10	<i>Psychotria punctata</i>	0
<i>Pinus elliotii</i> var. <i>densa</i>	7	<i>Psychotria sulzneri</i>	8
<i>Piper aduncum</i>	0	<i>Pteridium aquilinum</i> var. <i>caudatum</i>	6
<i>Piriqueta caroliniana</i>	6	<i>Pteris bahamensis</i>	6
<i>Piscidia piscipula</i>	6	<i>Pteris cretica</i>	0
<i>Pithecoctenium crucigerum</i>	0	<i>Pteroglossaspis ecristata</i>	9
<i>Pithecellobium dulce</i>	0	<i>Pterocaulon pycnostachyum</i>	8
<i>Pithecellobium keyense</i>	6	<i>Pteris tripartita</i>	0
<i>Pittosporum pentandrum</i>	0	<i>Pteris vittata</i>	0
<i>Pityopsis graminifolia</i>	6	<i>Pteris xdelchampsii</i>	0
<i>Pleopeltis polypodioides</i> var. <i>michauxiana</i>	5	<i>Ptychosperma elegans</i>	0
<i>Pluchea carolinensis</i>	1	<i>Pueraria montana</i> var. <i>lobata</i>	0
<i>Pluchea odorata</i>	5	<i>Quercus chapmanii</i>	8
<i>Pluchea rosea</i>	5	<i>Quercus geminata</i>	8
<i>Poinsettia cyathophora</i>	3	<i>Quercus laurifolia</i>	7
<i>Poinsettia heterophylla</i>	2	<i>Quercus minima</i>	8
<i>Poinsettia pinetorum</i>	8	<i>Quercus myrtifolia</i>	8
<i>Polanisia tenuifolia</i>	7	<i>Quercus pumila</i>	8
<i>Polygala boykinii</i>	8	<i>Quercus virginiana</i>	6
<i>Polygonella ciliata</i>	7	<i>Quercus xrolfsii</i>	8
<i>Polystachya concreta</i>	10	<i>Quisqualis indica</i>	0
<i>Polygonella gracilis</i>	7	<i>Randia aculeata</i>	6
<i>Polygala grandiflora</i>	5	<i>Rapanea punctata</i>	6
<i>Polygala incarnata</i>	8	<i>Reynosia septentrionalis</i>	7
		<i>Rhus copallinum</i>	6
		<i>Rhynchosia cinerea</i>	8

<i>Rhynchospora colorata</i>	5	<i>Senna ligustrina</i>	6
<i>Rhynchospora divergens</i>	6	<i>Senna mexicana</i> var. <i>chapmanii</i>	8
<i>Rhynchospora floridensis</i>	6	<i>Senna obtusifolia</i>	1
<i>Rhynchospora globularis</i>	7	<i>Senna pendula</i> var. <i>glabrata</i>	0
<i>Rhynchospora grayi</i>	8	<i>Serenoa repens</i>	8
<i>Rhynchosia michauxii</i>	8	<i>Setaria macrosperma</i>	7
<i>Rhynchosia minima</i>	4	<i>Setaria parviflora</i>	5
<i>Rhynchosia parvifolia</i>	8	<i>Seymeria pectinata</i>	8
<i>Rhynchospora plumosa</i>	9	<i>Sida acuta</i>	1
<i>Rhynchosia reniformis</i>	8	<i>Sida elliotii</i>	8
<i>Rhynchelytrum repens</i>	0	<i>Sida rhombifolia</i>	1
<i>Rhynchosia swartzii</i>	8	<i>Sideroxylon celastrinum</i>	8
<i>Ricinus communis</i>	0	<i>Sideroxylon foetidissimum</i>	8
<i>Rivina humilis</i>	5	<i>Sideroxylon reclinatum</i> subsp. <i>austrofloridense</i>	9
<i>Rottboellia cochinchinensis</i>	0	<i>Sideroxylon reclinatum</i>	9
<i>Rubus niveus</i>	0	<i>Sideroxylon salicifolium</i>	6
<i>Ruellia succulenta</i>	8	<i>Simarouba glauca</i>	8
<i>Sabal etonia</i>	8	<i>Sisyrinchium angustifolium</i>	5
<i>Sabal palmetto</i>	5	<i>Sisyrinchium nashii</i>	8
<i>Sabatia stellaris</i>	7	<i>Smilax auriculata</i>	5
<i>Sachsia polycephala</i>	8	<i>Smilax bona-nox</i>	7
<i>Sacoila lanceolata</i> var. <i>paludicola</i>	10	<i>Smilax havanensis</i>	8
<i>Salix caroliniana</i>	5	<i>Smilax laurifolia</i>	8
<i>Samolus ebracteatus</i>	5	<i>Solanum americanum</i>	2
<i>Sansevieria hyacinthoides</i>	0	<i>Solanum chenopodioides</i>	7
<i>Sapindus saponaria</i>	7	<i>Solanum diphyllum</i>	0
<i>Sarcostemma clausum</i>	4	<i>Solanum erianthum</i>	6
<i>Schaefferia frutescens</i>	10	<i>Solanum seaforthianum</i>	0
<i>Schefflera actinophylla</i>	0	<i>Solanum verbascifolium</i>	7
<i>Schizachyrium gracile</i>	6	<i>Solidago gigantea</i>	6
<i>Schizaea pennula</i>	10	<i>Solidago odora</i> var. <i>chapmanii</i>	8
<i>Schizachyrium rhizomatum</i>	8	<i>Solidago stricta</i>	6
<i>Schizachyrium sanguineum</i>	6	<i>Solidago tortifolia</i>	8
<i>Schinus terebinthifolius</i>	0	<i>Sophora tomentosa</i> var. <i>truncata</i>	7
<i>Schoepfia chrysophylloides</i>	10	<i>Sorghastrum secundum</i>	6
<i>Schoenus nigricans</i>	9	<i>Sorindeia madagascariensis</i>	0
<i>Scleria ciliata</i>	7	<i>Spathodea campanulata</i>	0
<i>Scleria ciliata</i> var. <i>curtissii</i>	10	<i>Spermacoce assurgens</i>	2
<i>Scleria lithosperma</i>	7	<i>Spermacoce prostrata</i>	6
<i>Scleria verticillata</i>	6	<i>Spermacoce terminalis</i>	8
<i>Scutellaria havanensis</i>	7	<i>Spermacoce tetraquetra</i>	4
<i>Selaginella arenicola</i>	10	<i>Spermacoce verticillata</i>	0
<i>Selaginella armata</i> var. <i>eatonii</i>	7	<i>Spiranthes amesiana</i>	10
<i>Selaginella willdenowii</i>	0	<i>Spiranthes costaricensis</i>	10
<i>Selenicereus pteranthus</i>	0		

<i>Spiranthes cranichoides</i>	10	<i>Thelypteris sclerophylla</i>	10
<i>Spiranthes elata</i>	10	<i>Thespesia populnea</i>	0
<i>Spiranthes torta</i>	10	<i>Thunbergia fragrans</i>	0
<i>Sporobolus compositus</i> var. <i>clandestinus</i>	6	<i>Thunbergia grandiflora</i>	0
<i>Sporobolus indicus</i> var. <i>pyramidalis</i>	0	<i>Tillandsia balbisiana</i>	7
<i>Sporobolus junceus</i>	9	<i>Tillandsia fasciculata</i> var. <i>densispica</i>	5
<i>Stachytarpheta urticifolia</i>	0	<i>Tillandsia fasciculata</i>	10
<i>Stenandrium dulce</i>	10	<i>Tillandsia flexuosa</i>	9
<i>Stenotaphrum secundatum</i>	0	<i>Tillandsia paucifolia</i>	7
<i>Stillingia sylvatica</i>	8	<i>Tillandsia recurvata</i>	5
<i>Stylosanthes calcicola</i>	10	<i>Tillandsia setacea</i>	7
<i>Stylosanthes hamata</i>	1	<i>Tillandsia usneoides</i>	5
<i>Stylisma villosa</i>	6	<i>Tillandsia utriculata</i>	7
<i>Swietenia mahagoni</i>	5	<i>Tillandsia variabilis</i>	10
<i>Syagrus romanzoffiana</i>	0	<i>Tillandsia xfloridana</i>	0
<i>Syngonium angustatum</i>	0	<i>Tillandsia xsmalliana</i>	10
<i>Syngonium podophyllum</i>	0	<i>Tournefortia hirsutissima</i>	9
<i>Syzygium cumini</i>	0	<i>Tournefortia volubilis</i>	7
<i>Syzygium jambos</i>	0	<i>Toxicodendron radicans</i>	5
<i>Tabebuia aurea</i>	0	<i>Tradescantia spathacea</i>	0
<i>Tabebuia heterophylla</i>	0	<i>Tragia saxicola</i>	8
<i>Tecoma stans</i>	0	<i>Tragia urens</i>	7
<i>Tectaria coriandrifolia</i>	10	<i>Trema lamarckianum</i>	6
<i>Tectaria fimbriata</i>	9	<i>Trema micranthum</i>	6
<i>Tectaria heracleifolia</i>	9	<i>Trichostema dichotomum</i>	6
<i>Tectaria incisa</i>	0	<i>Trichomanes krausii</i>	10
<i>Tectaria xamesiana</i>	10	<i>Trichomanes punctatum</i> subsp. <i>floridanum</i>	10
<i>Tephrosia angustissima</i>	10	<i>Tridens flavus</i>	6
<i>Tephrosia angustissima</i> var. <i>corallicola</i>	6	<i>Tridax procumbens</i>	0
<i>Tephrosia chrysophylla</i>	9	<i>Triplasis americana</i>	6
<i>Tephrosia florida</i>	8	<i>Tripsacum floridanum</i>	9
<i>Tephrosia spicata</i>	9	<i>Triphora gentianoides</i>	4
<i>Terminalia catappa</i>	0	<i>Triplasis purpurea</i>	6
<i>Tetrazygia bicolor</i>	8	<i>Triphasia trifolia</i>	0
<i>Teucrium canadense</i>	6	<i>Triumfetta semitriloba</i>	0
<i>Thelypteris augescens</i>	7	<i>Tropidia polystachya</i>	10
<i>Thelypteris dentata</i>	0	<i>Turnera ulmifolia</i>	0
<i>Thelypteris hispidula</i> var. <i>versicolor</i>	7	<i>Urena lobata</i>	0
<i>Thelypteris kunthii</i>	5	<i>Urochloa adspersa</i>	6
<i>Thelypteris opulenta</i>	0	<i>Vaccinium myrsinites</i>	8
<i>Thelypteris ovata</i>	7	<i>Vanilla dilloniana</i>	10
<i>Thelypteris patens</i>	10	<i>Vanilla mexicana</i>	0
		<i>Verbesina virginica</i>	7
		<i>Vernonia blodgettii</i>	8

<i>Vernonia cinerea</i>	0
<i>Vigna luteola</i>	4
<i>Vitis cinerea</i> var. <i>floridana</i>	6
<i>Vitis rotundifolia</i>	5
<i>Vitis shuttleworthii</i>	6
<i>Vittaria lineata</i>	9
<i>Waltheria indica</i>	4
<i>Warea carteri</i>	8
<i>Wedelia trilobata</i>	0
<i>Ximenia americana</i>	8
<i>Youngia japonica</i>	0
<i>Zamia furfuracea</i>	0
<i>Zamia integrifolia</i>	8
<i>Zanthoxylum clava-herculis</i>	9
<i>Zanthoxylum coriaceum</i>	10
<i>Zanthoxylum fagara</i>	9
<i>Ziziphus mauritiana</i>	0
<i>Zornia bracteata</i>	9

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## Glossary

**Facultative-NFC (FAC-NFC).** These species occur primarily in undisturbed habitats in Miami-Dade County (estimated probability 67-99%). Some may be classed as FACW or Wetland Obligates by the State of Florida if they are sometimes found sometimes in undisturbed upland areas. Only populations of native species within their natural ranges apply.

**Obligate-NFC (O-NFC).** These species occur only rarely outside of undisturbed habitats in Miami-Dade County (estimated probability >99%). Some may be classed as FACW or Wetland Obligates by the State of Florida if they are sometimes found in undisturbed upland areas. Only populations of native species within their natural ranges apply.

**Facultative (FAC).** These species will grow under a wide variety of disturbed and undisturbed conditions and cannot be reliably used to indicate NFC status.

**Ruderal (R).** Native species which grow predominantly in disturbed habitats (estimated probability 66-100%).