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Appendix C. Species of Concern and their Associated Community Types in South Florida.

Communities are indicated for species where they occur or have been known to occur.

F=Federal
S=State

E=Endangered
T=Threatened

SSC=Florida Species of Special Concern
XN=Nonessential Experimental population
C= Federal Candidate Species

*=FWS Species of Management Concern
S/A=Similarity of Appearance
No designation= FCREPA +/-or FNAI

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
Mammals																						
<i>Blarina carolinensis shermani</i> Sherman's short-tailed shrew (*, SSC)						X					X	X		X		X						
<i>Corynorhinus (=Plecotus) rafinesquii</i> Rafinesque's big-eared bat (*)						X					X					X	X	X				
<i>Eptesicus fuscus fuscus</i> Big brown bat			X			X					X			X		X	X	X				
<i>Eumops glaucinus floridanus</i> (*, SE) Florida mastiff bat							X	X			X	X										
<i>Puma (=Felis) concolor coryi</i> (FE,SE) Florida panther	X	X			X	X	X	X	X	X	X	X		X	X	X	X	X	X			
<i>Mustela vison evergladensis</i> (ST) Everglades mink											X			X	X	X	X	X	X	X		

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Mustela frenata peninsulae</i> Florida weasel						X				X												
<i>Neofiber alleni</i> (*) Round-tailed muskrat														X	X		X			X		
<i>Neotoma floridana smalli</i> (FE, SE) Key Largo woodrat							X															
<i>Odocoileus virginianus clavium</i> Key deer (FE, SE)						X	X	X		X	X				X				X	X		
<i>Oryzomys palustris natator</i> (FE, SE) Rice rat (=silver rice rat)															X				X	X		
<i>Oryzomys palustris planirostris</i> Pine Island rice rat																				X		
<i>Oryzomys palustris sanibeli</i> (SSC) Sanibel Island rice rat																				X		
<i>Peromyscus gossypinus allapaticola</i> Key Largo cotton mouse (FE, SE)							X															
<i>Peromyscus polionotus niveiventris</i> Southeastern beach mouse (FT, ST)				X																		

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs	
<i>Podomys floridanus</i> (*,SSC) Florida mouse	X	X	X						X														
<i>Procyon lotor auspicatus</i> (*) Key Vaca raccoon		X		X	X	X	X				X				X	X			X	X	X	X	
<i>Sciurus niger avicennia</i> (*, ST) Big Cypress (= mangrove) fox squirrel						X				X	X					X	X	X	X				
<i>Sciurus niger shermani</i> (*, SSC) Sherman's fox squirrel	X							X	X	X	X							X					
<i>Sigmodon hispidus exsputus</i> Lower Keys cotton rat				X				X							X								
<i>Sigmodon hispidus insulicola</i> (*) Insular Hispid cotton rat					X			X							X					X			
<i>Sylvilagus palustris hefneri</i> (FE, SE) Lower Keys rabbit				X											X				X	X			
<i>Trichechus manatus</i> (FE, SE) West Indian manatee																			X		X	X	
<i>Ursus americanus floridanus</i> (ST) Florida black bear	X	X		X		X	X	X	X	X	X	X			X	X	X	X	X				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
Birds																						
<i>Aimophila aestivalis</i> (*) Bachman's sparrow	X	X								X	X	X										
<i>Ajaia ajaja</i> (SSC) Roseate spoonbill											X				X		X		X	X	X	
<i>Ammodramus henslowii</i> (*) Henslow's sparrow												X	X	X								
<i>Ammodramus maritimus mirabilis</i> Cape Sable seaside sparrow (FE, SE)														X	X							
<i>Ammodramus savannarum floridanus</i> Florida grasshopper sparrow (FE, SE)												X		X								
<i>Anous stolidus</i> brown noddy				X															X			
<i>Aphelocoma coerulescens</i> (FT, ST) Florida scrub-jay		X							X													
<i>Aramus guarauna</i> (SSC) Limpkin											X						X		X			

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Ardea alba</i> Great egret											X			X	X	X	X	X	X	X	X	
<i>Bartramia longicauda</i> (*) Upland sandpiper												X		X								
<i>Botaurus lentiginosus</i> (*) American bittern														X	X	X	X	X				
<i>Buteo brachyurus</i> Short-tailed hawk	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X		
<i>Campephilus principalis</i> (FE, SE) Ivory-billed woodpecker						X										X	X	X				
<i>Catharus fuscescens</i> (*) Veery					X	X	X	X			X					X		X				
<i>Charadrius alexandrinus tenuirostris</i> Southeastern snowy plover (*, ST)				X																		X
<i>Charadrius melodus</i> (FT, ST) Piping plover				X																		X
<i>Charadrius wilsonia</i> (*) Wilson's plover				X																X	X	X

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Chondestes grammacus</i> (*) Lark sparrow												X										
<i>Circus cyaneus</i> (*) Northern harrier												X	X	X	X	X						
<i>Cistothorus platensis</i> (*) Sedge wren													X	X	X							
<i>Chordeiles gundlachi</i> Antillean nighthawk				X	X		X	X				X										
<i>Coccyzus minor</i> Mangrove cuckoo				X	X		X												X			
<i>Coccyzus americanus</i> (*) Yellow-billed cuckoo						X	X	X														
<i>Colaptes auratus</i> (*) Northern flicker						X		X	X	X	X											
<i>Columba leucocephala</i> (*, ST) White-crowned pigeon					X		X												X			
<i>Columba passerina</i> (*) Common ground dove				X	X		X	X											X			

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Coturnicops noveboracensis</i> (*) Yellow rail												X	X	X	X	X		X				
<i>Dendroica caerulescens</i> (*) Black-throated blue warbler						X	X											X				
<i>Dendroica discolor paludicola</i> Florida prairie warbler					X							X							X			
<i>Dendroica petechia gundlachi</i> Cuban yellow warbler						X													X			
<i>Dendroica kirtlandii</i> (FE, SE) Kirtland's warbler		X	X	X	X	X	X	X	X	X	X					X	X	X				
<i>Dolichonyx oryzivorus</i> (*) Bobolink												X			X							
<i>Egretta caerulea</i> (SSC) Little blue heron											X	X		X	X	X	X	X	X	X	X	
<i>Egretta rufescens</i> (*, SSC) Reddish egret																			X	X	X	
<i>Egretta thula</i> (SSC) Snowy egret											X	X		X	X	X	X	X	X	X	X	

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Egretta tricolor</i> (SSC) Tricolor (=Louisiana) heron											X	X		X	X	X	X	X	X	X	X	
<i>Elanoides forficatus</i> American swallow-tailed kite						X				X	X	X		X	X	X	X	X				
<i>Elanus leucurus</i> White-tailed kite												X		X	X		X					
<i>Eudocimus albus</i> (SSC) White ibis										X		X		X	X	X	X	X	X	X	X	
<i>Falco columbarius</i> Merlin		X		X	X	X	X	X	X	X	X	X		X	X	X	X		X	X		
<i>Falco peregrinus</i> [FE (S/A)] Peregrine falcon	X	X		X				X	X	X	X	X		X	X	X	X		X	X		
<i>Falco peregrinus anatum</i> (FE) American peregrine falcon					X			X		X	X	X		X	X				X			
<i>Falco peregrinus tundrius</i> (SE) Arctic peregrine falcon				X				X		X	X	X		X	X				X			
<i>Falco sparverius paulus</i> (*, ST) Southeastern American kestrel	X	X						X		X	X	X							X			

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Fregata magnificens</i> Magnificent frigatebird																			X		X	
<i>Gavia immer</i> (*) Common loon																		X	X	X	X	
<i>Grus americana</i> (F/XN, SSC) Whooping crane												X		X	X							
<i>Grus canadensis pratensis</i> (ST) Florida sandhill crane										X	X	X		X	X							
<i>Haematopus palliatus</i> (SSC) American oystercatcher				X															X	X	X	X
<i>Haliaeetus leucocephalus</i> (FT, ST) Bald eagle	X		X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	
<i>Helmitheros verminvorus</i> (*) Worm-eating warbler						X																
<i>Hirundo fulva fulva</i> West Indian cave swallow																						
<i>Hylocichla mustelina</i> (*) Wood thrush						X												X				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Ixobrychus exilis</i> (*) Least bittern															X	X	X	X				
<i>Lanius ludovicianus</i> (*) loggerhead shrike										X	X	X	X	X								
<i>Laterallus jamaicensis</i> (*) Black rail												X			X		X			X		
<i>Limnothlypis swainsonii</i> (*) Swainson's warbler						X					X							X				
<i>Mycteria americana</i> (FE, SE) Wood stork											X			X	X	X	X	X	X	X	X	X
<i>Numenius americanus</i> (*) Long-billed curlew				X																		
<i>Lanius ludovicianus</i> (*) loggerhead shrike										X	X	X	X	X								
<i>Pandion haliaetus</i> (SSC) Osprey											X			X	X	X	X	X	X	X	X	
<i>Pelecanus occidentalis</i> (SSC) Brown pelican																			X	X	X	

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<i>Picoides borealis</i> (FE, ST) Red-cockaded woodpecker	X									X	X											
<i>Polyborus plancus audubonii</i> Audubon's crested caracara (FT, ST)						X				X	X	X		X								
<i>Rallus longirostris insularum</i> Mangrove clapper rail (*)																			X			
<i>Rostrhamus sociabilis plumbeus</i> Everglade snail kite (FE, SE)											X				X			X				
<i>Rynchops niger</i> (SSC) Black skimmer				X											X				X	X	X	
<i>Seiurus motacilla</i> (*) Louisiana waterthrush																	X	X				
<i>Setophaga ruticilla</i> American redstart						X											X					
<i>Speotyto cunicularia</i> (SSC) Burrowing owl	X											X										
<i>Spizella pusilla</i> (*) Field sparrow												X		X								

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<i>Sterna antillarum</i> (ST) Least tern				X											X				X	X	X	
<i>Sterna dougallii dougallii</i> (FT, ST) Roseate tern				X																X	X	X
<i>Sturnella magna</i> (*) Eastern meadowlark										X	X	X		X								
<i>Tyto alba</i> (*) Barn owl					X	X	X					X		X								
<i>Vermivora bachmanii</i> (FE, SE) Bachman's warbler						X											X					
<i>Vermivora pinus</i> (*) Blue-winged warbler					X	X																
<i>Vireo altiloquus</i> Black-wiskered vireo							X												X			
Reptiles																						
<i>Alligator mississippiensis</i> American alligator [FT (S/A), SSC]											X			X	X	X	X	X	X			
<i>Caretta caretta</i> (FT, ST) Loggerhead sea turtle				X																	X	X

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<i>Chelonia mydas</i> (FE, SE) Green sea turtle				X																	X	X
<i>Clemmys guttata</i> Spotted turtle										X	X				X	X					X	
<i>Crocodylus acutus</i> (FE, SE) American crocodile																			X		X	
<i>Dermochelys coriacea</i> (FE,SE) Leatherback sea turtle				X																	X	X
<i>Diadophis punctatus acricus</i> (*, ST) Big Pine Key ringneck snake						X		X														
<i>Drymarchon corais couperi</i> (FT, ST) Eastern indigo snake	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X			
<i>Elaphe guttata guttata</i> (SSC) Red rat snake						X	X	X			X			X								
<i>Eretmochelys imbricata</i> (FE, SE) Hawksbill sea turtle				X																	X	X
<i>Eumeces egregius egregius</i> (SSC) Florida Keys mole skink				X		X	X															

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<i>Eumeces egregius lividus</i> (FT, ST) Bluetail mole skink	X	X																				
<i>Farancia erythrogramma seminola</i> South Florida rainbow snake												X										
<i>Gopherus polyphemus</i> (SSC) Gopher tortoise	X	X		X	X			X	X	X	X	X										
<i>Kinosternon baurii</i> (SE) Striped mud turtle							X								X				X			
<i>Lampropeltis calligaster rhombamaculata</i> Mole snake	X								X													
<i>Lepidochelys kempii</i> (FE, SE) Kemp's (=Atlantic) ridley sea turtle				X																	X	X
<i>Malaclemys terrapin rhizophorarum</i> Mangrove terrapin																			X			
<i>Neoseps reynoldsi</i> (FT, ST) Sand skink	X	X																				
<i>Nerodia clarkii taeniata</i> Atlantic saltmarsh snake (FT, ST)																				X		

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<i>Pituophis melanoleucus mugitus</i> Florida pine snake (*, SSC)	X	X							X													
<i>Sceloporus woodi</i> (*) Florida scrub lizard	X	X																				
<i>Stilosoma extenuatum</i> (ST) Short-tailed snake	X	X																				
<i>Storeria dekayi victa</i> (ST) Florida brown snake Lower Keys population							X					X		X								
<i>Tantilla oolitica</i> (*, ST) Rim Rock crowned (Miami Black- headed) snake							X	X														
<i>Thamnophis sauritus sackeni</i> (ST) Florida ribbon snake Lower Keys population				X			X				X	X		X			X			X		
Amphibians																						
<i>Rana capito</i> (*, SSC) Gopher frog	X	X							X	X	X	X			X							

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Fishes																						
<i>Acipenser oxyrinchus</i> (SSC) Atlantic sturgeon																			X	X	X	X
<i>Acipenser oxyrinchus desotoi</i> (FT) Gulf sturgeon																			X			
<i>Agonostomus monticola</i> Mountain mullet																			X	X	X	X
<i>Awaous tajasica</i> River goby																			X	X	X	X
<i>Centropomus undecimalis</i> (SSC) Common snook																			X	X	X	X
<i>Gambusia rhizophora</i> Mangrove gambusia																			X		X	
<i>Gobiomorus dormitor</i> Bigmouth sleeper																			X	X	X	X
<i>Gobionellus pseudofasciatus</i> Slashcheek goby																				X		

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<i>Gobionellus stigmaturus</i> Spot tail goby																					X	X
<i>Menidia conchorum</i> (ST) Key silverside																			X		X	X
<i>Microphis brachyurus lineatus</i> Opossum pipefish																			X	X	X	X
<i>Rivulus marmoratus</i> (SSC) Mangrove rivulus																			X	X	X	
<i>Starksia starcki</i> (SSC) Key blenny																						X
Invertebrates																						
<i>Amblyscirtes alternata</i> Least Florida skipper	X	X								X												
<i>Anaea troglodyta floridalis</i> (*) Florida leafwing butterfly								X														
<i>Anomala eximia</i> (*) Archbold anomalan scarab beetle		X																				
<i>Anomala exigua</i> (*) Exiguous anomalan scarab beetle	X																					

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<i>Aratus pisonii</i> Mangrove tree crab																			X			
<i>Asaphomyia floridensis</i> (*) Florida asaphomyian tabanid fly		X																				
<i>Ataenius superficialis</i> (*) Big Pine Key ataenius dung beetle								X														
<i>Atrytone arogos arogos</i> (*) Arogos skipper	X									X												
<i>Atrytonopsis loammi</i> Loammi skipper										X												
<i>Belocephalus micanopy</i> (*) Big Pine Key conehead katydid								X														
<i>Belocephalus sleighti</i> (*) Keys shortwinged conehead Katydid							X	X														
<i>Ceraclea floridana</i> (*) Florida ceraclea longhorn Caddisfly																						
<i>Cerithium lindae</i> Gastropod																						X

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<i>Cesonia irvingi</i> (*) Key gnaphosid spider		X																				
<i>Cicindela abdominalis floridana</i> Miami tiger beetle		X																				
<i>Cicindela highlandensis</i> (*) Highlands tiger beetle		X																				
<i>Cicindela scabrosa</i> Scrub tiger beetle		X																				
<i>Copris gopheri</i> (*) Copris tortoise commensal scarab beetle	X	X																				
<i>Cotinis new sp.</i> Keys green June beetle							X															
<i>Crangonyx hobbsi</i> (*) Hobb's cave amphipod																						
<i>Cyclocephala miamiensis</i> (*) Miami roundhead scarab beetle																						
<i>Cycloptilum irregularis</i> (*) Keys scaly cricket							X															

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<i>Dendrogyra cylindrus</i> (SE) Pillar coral																						X
<i>Eburia stroheckeri</i> Strohecker's eburia							X															
<i>Ephydatia subtilis</i> (*) Kissimmee sponge																						
<i>Eumaeus atala Florida</i> (*) Florida atala butterfly							X	X														
<i>Euphyes berryi</i> Berry's skipper														X	X	X						
<i>Euphyes pilatka</i> Palatka skipper								X				X			X				X			
<i>Euphyes pilatka klotsi</i> Klots' skipper								X														
<i>Floridobolus penneri</i> Florida scrub millipede	X	X																				
<i>Goniopsis cruentata</i> mangrove crab																			X			

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<i>Hesperia meskei</i> Rockland grass skipper								X														
<i>Hemiargus thomasi</i> Caribbean blue							X															
<i>Hydroptila lloganae</i> Llogan's vari-colored microcaddisfly							X							X			X					
<i>Hydroptila molsonae</i> Molson's microcaddisfly																X	X					
<i>Idia gopheri</i> (*) Tortoise commensal noctuid moth	X	X																				
<i>Libellula jesseana</i> Purple skimmer	X		X																			
<i>Liguus fasciatus</i> (SSC) Florida tree snail							X															
<i>Melanoplus indicifer</i> East coast scrub grasshopper		X																				
<i>Melongene sprucecreekensis</i> Gastropod																						X

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<i>Micronaspis floridana</i> (*) Florida intertidal firefly				X																			
<i>Mixogaster delongi</i> (*) Delong's mixogaster flower fly																							
<i>Modulus papei</i> Gastropod																							X
<i>Mycotrupes pedester</i> (*) Scrub Island burrowing scarab beetle		X																					
<i>Nehalennia pallidula</i> Everglades sprite														X			X						
<i>Nerita lindae</i> Gastropod																							X
<i>Nesostizocera floridana</i> Florida forestiera borer							X																
<i>Oecetis parva</i> (*) Little longhorn caddisfly																							
<i>Oecetis pratelia</i> Little meadow long-horn sedge																							

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<i>Onthophagus polyphemi</i> (*) Onthophagus tortoise commensal scarab beetle	X	X																				
<i>Orthalicus floridensis</i> Banded tree snail							X															
<i>Orthalicus reses nesodryas</i> Florida Keys tree snail							X															
<i>Orthalicus reses</i> (not incl. <i>nesodryas</i>) Stock Island tree snail (FT, SE)							X															
<i>Oxyethira florida</i> (*) Florida cream& mottled microcaddisfly																						
<i>Oxyethira kingi</i> King's cream& mottled microcaddisfly																						
<i>Heraclides aristodemus ponceanus</i> Schaus swallowtail butterfly (FE, SE)							X															
<i>Photuris brunnipennis floridana</i> (*) Everglades brownwing firefly						X	X															
<i>Phyllophaga elizoria</i> Scarab beetle	X	X																				

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<i>Praticolella bakeri</i> Ridge shrubsnaail	X	X																				
<i>Procambarus milleri</i> Miami cave crayfish								X														
<i>Serica tantula</i> (C) Tantula serican scarab beetle																						
<i>Serica frosti</i> (*) Frost's Spring serican scarab beetle		X																				
<i>Sosippus placidus</i> (*) Lake Placid funnel wolf spider		X																				
<i>Strymon acis bartrami</i> (*) Bartram's hairstreak butterfly								X														
<i>Trigonopelastes floridana</i> (*) Scrub palmetto flower scarab beetle		X																				
<i>Trox howelli</i> (*) Caracara commensal scarab beetle												X										
<i>Villosa amygdala</i> Florida rainbow															X							

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Plants																						
<i>Acacia choriophylla</i> (SE) Tamarindillo				X			X												X			
<i>Acacia tortuosa</i> (SE) Poponax							X															
<i>Acoelorrhaphe wrightii</i> (ST) Everglades palm							X															
<i>Acrostichum aureum</i> (ST) Golden leather fern							X												X	X		
<i>Adiantum capillus-veneris</i> Venus'-hair fern						X																
<i>Adiantum melanoleucum</i> (SE) Fragrant maidenhair fern							X															
<i>Adiantum tenerum</i> (SE) Brittle maidenhair fern						X	X															
<i>Adiantum tetraphyllum</i> four-leaved maidenhair fern							X															
<i>Aeschynomene pratensis</i> Meadow jointvetch															X			X				

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<i>Ageratum littorale</i> Cape Sable whiteweed							X															
<i>Agrimonia incisa</i> (*) Incised groovebur	X					X																
<i>Aletris bracteata</i> Bracted colic-root								X														
<i>Alvaradoa amorphoides</i> (SE) Everglades leaf lace							X	X														
<i>Amorpha crenulata</i> (FE, SE) Crenulate lead-plant								X														
<i>Amyris balsamifera</i> balsam torchwood				X			X															
<i>Angadenia berteroi</i> (ST) Pineland golden trumpet								X							X							
<i>Andropogon arctatus</i> (ST) Pinewood bluestem		X								X	X			X		X						
<i>Anemia wrightii</i> (SE) Parsley fern							X	X														

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<i>Argythamnia blodgettii</i> (SE) Blodgett's wild mercury (*)							X	X														
<i>Aristida rhizomophora</i> Florida three-awned grass										X	X	X				X						
<i>Aristolochia pentandra</i> (SE) Marsh's Dutchman's pipe				X			X															
<i>Asclepias curtissii</i> (SE) Curtis' milkweed		X							X													
<i>Asimina tetramera</i> (FE, SE) Four-petal pawpaw		X																				
<i>Asplenium auritum</i> (SE) Auricled spleen-wort						X										X	X					
<i>Asplenium serratum</i> (SE) Birds nest spleenwort							X				X						X	X				
<i>Asplenium trichomanes-dentatum</i> Slender spleenwort (SE)							X															
<i>Asplenium verecundum</i> (SE) Delicate spleenwort							X															
<i>Avicennia germinans</i> Black mangrove																			X	X		

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<i>Baccharis dioica</i> Broombush falsewillow							X															
<i>Basiphyllaea corallicola</i> (SE) Carter's orchid								X														
<i>Bletia purpurea</i> (ST) Pine-pink orchid								X	X						X		X	X				
<i>Bonamia grandiflora</i> (FT, SE) Florida bonamia	X	X	X																			
<i>Bourreria cassinifolia</i> (SE) Little stronghold								X														
<i>Bourreria radula</i> (SE) Rough-strongback							X															
<i>Brassia caudata</i> (*, SE) Spider orchid							X	X														
<i>Brickellia mosieri</i> (*, SE) Mosier's false boneset								X														
<i>Bulbophyllum pachyrrachis</i> (SE) Rat-tail orchid							X										X					

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<i>Burmannia flava</i> (SE) Fakahatchee burmannia										X	X											
<i>Byrsonima lucida</i> (ST) Locustberry							X	X														
<i>Cacalia diversifolia</i> (ST) Indian-plantain																	X					
<i>Caespinia major</i> (SE) Yellow nicker							X															
<i>Caespinia pauciora</i> (SE) Fewflower holdback							X	X														
<i>Calamintha ashei</i> (*, ST) Ashe's savory		X																				
<i>Calopogon multi-florus</i> Many-flowered grass pink orchid										X	X		X									
<i>Calypttranthes pallens</i> (ST) Pale lidflower							X															
<i>Calypttranthes zuzygium</i> (SE) Myrtle-of-the-river							X															
<i>Campylocentrum pachyrrhizum</i> (SE) Leafless orchid																	X					

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<i>Campyloneurum angustifolium</i> (SE) Narrow strap fern							X				X						X					
<i>Campyloneurum costatum</i> (SE) Tailed strap fern							X				X						X					
<i>Campyloneurum latum</i> Wide strap fern							X															
<i>Canella winteriana</i> (SE) Wild-cinnamon							X															
<i>Carex chapmanii</i> (SE) Chapman's sedge																	X					
<i>Cassia keyensis</i> (SE) Keys cassia								X														
<i>Catesbaea parviflora</i> (SE) Small-flowered lily thorn				X	X		X	X														
<i>Catopsis berteroniana</i> (SE) Airplant							X	X									X		X			
<i>Catopsis floribunda</i> (SE) Many flowered catopsis							X										X					
<i>Catopsis nutans</i> (SE) Nodding catopsis																	X					

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<i>Celosia nitida</i> (SE) West Indian cock's comb							X															
<i>Celtis iguanaea</i> (SE) Iguana hackberry				X	X															X		
<i>Celtis pallida</i> (SE) Spiny hackberry				X	X																	
<i>Cenchrus brownii</i> (SE) Slimbristle sandbur							X															
<i>Centrosema arenicola</i> (SE) Sand butterfly pea	X								X													
<i>Cereus eriophorus</i> var. <i>fragrans</i> Fragrant prickly-apple (FE, SE)		X							X													
<i>Cereus gracilis</i> var. <i>aboriginum</i> (*) Aboriginal prickly-apple					X																	
<i>Cereus gracilis</i> var. <i>simpsonii</i> (*) Simpson's prickly-apple				X	X		X															
<i>Cereus pentagonus</i> (ST) Barbed-wire cactus					X																	

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<i>Chamaecrista lineata</i> var. <i>keyensis</i> Big Pine partridge pea (SE)								X														
<i>Chamaesyce garberi</i> (FT, SE) Garber's spurge				X				X														
<i>Chamaesyce cumulicola</i> (*, SE) Sand-dune spurge		X		X	X																	
<i>Chamaesyce deltoidea</i> ssp. <i>adhaerens</i> Hairy deltoid spurge (SE)								X														
<i>Chamaesyce deltoidea</i> ssp. <i>deltoidea</i> Deltoid spurge (FE,SE)								X														
<i>Chamaesyce deltoidea</i> spp. <i>pinetorum</i> Pinelands sandmat (SE)								X														
<i>Chamaesyce deltoidea</i> spp <i>serpyllum</i> Wedge sandmat (SE)								X														
<i>Chamaesyce pergamena</i> (ST) Rocklands spurge								X														
<i>Chamaesyce porteriana</i> (*) Porter's broad-leaved spurge				X			X	X														

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<i>Chaptalia albicans</i> (ST) White sunbonnets								X														
<i>Cheilanthes microphylla</i> (SE) Southern lip fern					X	X	X															
<i>Cheiroglossa palmata</i> Hand fern						X	X									X	X	X				
<i>Chionanthus pygmaeus</i> (FE, SE) Pygmy fringe-tree		X	X																			
<i>Chromolaena frustrata</i> (SE) Cape Sable thoroughwort							X	X														
<i>Chrysophyllum oliviforme</i> (ST) Satin leaf					X		X	X			X											
<i>Chrysopsis floridana</i> (FE, SE) Florida golden aster		X																				
<i>Cienfuegosia yucatanensis</i> (SE) Yellow hibiscus							X													X		
<i>Cissampelos pareira</i> (SE) Pareira brava							X															

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<i>Cladonia perforata</i> (FE, SE) Florida perforate cladonia		X																				
<i>Clitoria fragrans</i> (FT, ST) Pigeon-wings	X	X	X						X													
<i>Coccothrinax argentata</i> (ST) Silver palm				X	X		X	X														
<i>Coelorachis tuberculosa</i> (*, ST) Piedmont jointgrass											X			X	X							
<i>Colubrina arborescens</i> (SE) Greenheart							X	X														
<i>Colubrina cubensis</i> (SE) Cuban snake-bark							X	X														
<i>Colubrina elliptica</i> (SE) Soldierwood							X															
<i>Conradina brevifolia</i> (FE, SE) Short-leaved rosemary	X	X																				
<i>Conradina grandiflora</i> (*, SE) Large-flowered rosemary		X							X													

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<i>Cordia globosa</i> (SE) Curacao bush							X															
<i>Cranichis muscosa</i> (SE) Moss orchid							X															
<i>Crossopetalum ilicifolium</i> (ST) Christmas-berry							X	X														
<i>Crossopetalum rhacoma</i> (SE) Rhacoma							X	X														
<i>Crotalaria avonensis</i> (FE, SE) Avon Park harebells		X																				
<i>Croton humilis</i> (SE) Pepperbush							X															
<i>Ctenitis sloanei</i> (SE) Florida tree fern							X				X						X					
<i>Ctenitis submarginis</i> (SE) Brown-hair comb fern							X				X						X					
<i>Cucurbita okeechobeensis</i> ssp <i>okeechobeensis</i> Okeechobee gourd (FE, SE)															X			X				

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<i>Cupania glabra</i> (SE) Florida toadwood							X	X														
<i>Cuphea aspera</i> (*) Tropical waxweed										X				X		X						
<i>Cynanchum blodgettii</i> (ST) Blodgett's swallowwort								X														
<i>Cyperus floridanus</i> (SE) Florida flatsedge							X															
<i>Cyperus fuliginus</i> (SE) Limestone flatsedge							X															
<i>Cyrtopodium punctatum</i> (SE) Cow-horn orchid							X							X	X		X	X				
<i>Dalbergia brownii</i> (SE) Brown's Indian rosewood							X															
<i>Dalea carthagenensis</i> var. <i>floridana</i> Florida prairie clover (SE)								X														
<i>Deeringothamnus pulchellus</i> (FE, SE) Beautiful pawpaw										X	X											
<i>Dennstaedtia bipinnata</i> (SE) Cuplet fern						X										X						

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<i>Dicerandra christmanii</i> (FE, SE) Garrett's mint	X	X	X																			
<i>Dicerandra frutescens</i> (FE, SE) Scrub mint	X	X	X																			
<i>Dicerandra immaculata</i> (FE, SE) Lakela's mint		X																				
<i>Digitaria dolichophylla</i> (ST) Caribbean crabgrass				X				X														
<i>Digitaria gracillima</i> (*) Longleaf finger grass	X	X																				
<i>Digitaria pauciflora</i> (*, SE) Twospike crabgrass								X						X	X							
<i>Dodonaea elaeagnoides</i> (SE) Keys hopbush							X	X														
<i>Drosera intermedia</i> (ST) Water sundew											X				X	X						
<i>Drypetes diversifolia</i> (SE) Milkbark							X															

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<i>Drypetes lateriflora</i> (ST) Guiana plum							X															
<i>Eltroplectris calcarata</i> (SE) Spurred neottia							X															
<i>Elytraria caroliniensis</i> var. <i>angustifolia</i> Narrow-leaved Carolina scalystem (*)								X			X			X	X							
<i>Encyclia boothiana</i> (SE) Dollar orchid							X												X			
<i>Encyclia cochleata</i> (SE) Florida clamshell orchid							X										X	X	X			
<i>Encyclia pygmaea</i> (SE) Dwarf epidendrum																	X					
<i>Epidendrum acunae</i> (SE) Acuna's epidendrum																	X					
<i>Epidendrum anceps</i> (SE) Dingy-flowered epidendrum							X										X					
<i>Epidendrum difforme</i> (SE) Umbelled epidendrum																	X					

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<i>Epidendrum nocturnum</i> (SE) Night-smelling epidendrum							X										X	X				
<i>Epidendrum rigidum</i> (SE) Rigid epidendrum							X			X							X					
<i>Epidendrum strobiliferum</i> (SE) Matted epidendrum																	X					
<i>Eragrostis tracyi</i> (*, SE) Sanibel lovegrass				X	X																	
<i>Eriochloa michauxii</i> var. <i>simpsonii</i> (*) Longleaf cupgrass	X			X				X			X											
<i>Eriogonum longifolium</i> var. <i>gnaphalifolium</i> Scrub buckwheat (FT, SE)	X	X	X																			
<i>Erithalis fruticosa</i> (ST) Black torch							X															
<i>Ernodea cokeri</i> (SE) One-nerved ernodea				X				X														
<i>Eryngium cuneifolium</i> (FE, SE) Snakeroot		X																				

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<i>Eugenia confusa</i> (SE) Redberry eugenia							X															
<i>Eugenia rhombea</i> (SE) Red stopper				X			X															
<i>Evolvulus convolvuloides</i> (SE) Dwarf bindweed							X															
<i>Evolvulus grisebachii</i> (SE) Grisebach's bindweed								X														
<i>Exostema caribaeum</i> (SE) Princewood							X															
<i>Forestiera segregata</i> var. <i>pinetorum</i> Florida pinewood privet (*)								X			X											
<i>Galactia pinetorum</i> (*) Pineland milk-pea								X														
<i>Galactia smallii</i> (FE, SE) Small's milkpea								X														
<i>Galeandra beyrichii</i> (SE) Helmet orchid							X															
<i>Garberia heterophylla</i> (ST) Garberia		X	X																			

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<i>Glandularia maritima</i> (SE) coastal vervain				X				X		X												
<i>Glandularia tampensis</i> (SE) tampa vervain										X						X						
<i>Gossypium hirsutum</i> (SE) Wild cotton				X			X															
<i>Govenia utriculata</i> (SE) Gowen's orchid							X															
<i>Guaiacum sanctum</i> (SE) Lignum vitae							X															
<i>Guzmania monostachia</i> (SE) Fuchs' bromeliad							X										X					
<i>Gyminda latifolia</i> (SE) West Indian false-box				X			X															
<i>Gymnopogon chapmanianus</i> Chapman's skeletongrass	X	X								X		X										
<i>Habenaria distans</i> (SE) Distans habenaria							X										X					
<i>Halophila johnsonii</i> (FT, SE) Johnson's seagrass																					X	

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<i>Harrisella filiformis</i> (ST) Threadroot orchid											X						X					
<i>Hartwrightia floridana</i> (*, ST) Hartwrightia										X	X		X			X						
<i>Helianthus debilis</i> ssp. <i>vestitus</i> (*) Hairy beach sunflower		X		X															X			
<i>Heliotropium fruticosum</i> (SE) Key West heliotrope							X															
<i>Hexalectris spicata</i> (SE) Crested coralroot																						
<i>Hibiscus poeppigii</i> (SE) Poeppig's rose-mallow							X															
<i>Hippomane mancinella</i> (SE) Manchineel				X	X		X												X			
<i>Hymenocallis latifolia</i> broad-leaved spiderlily				X	X														X			
<i>Hypelate trifoliata</i> (SE) Inkwood					X		X	X														
<i>Hypericum cumulicola</i> (FE, SE) Highlands scrub hypericum		X																				

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<i>Hypericum edisonianum</i> (SE) Edison ascyrum										X			X	X	X	X						
<i>Ilex krugiana</i> (SE) Krug's holly							X	X														
<i>Ilex opaca</i> var. <i>arenicola</i> Scrub holly		X																				
<i>Illicium parviflorum</i> (*, SE) Yellow star anise						X										X	X					
<i>Indigofera mucronata</i> var. <i>keyensis</i> Key's indigo (SE)				X			X	X														
<i>Ionopsis utricularioides</i> (SE) Delicate ionopsis							X	X									X					
<i>Ipomoea microdactyla</i> (SE) Wild potato morning glory								X									X					
<i>Ipomoea tenuissima</i> (SE) Rockland morning glory								X		X												
<i>Jacquemontia curtissii</i> (*, ST) Pineland jacquemontia								X	X	X				X	X							
<i>Jacquemontia havenensis</i> (SE) Havana clustervine				X			X															

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<i>Jacquemontia pentanthos</i> (SE) Skyblue clustervine							X	X							X							
<i>Jacquemontia reclinata</i> (FE, SE) Beach jacquemontia				X																		
<i>Jacquinia keyensis</i> (ST) Joewood				X	X		X	X														
<i>Justicia crassifolia</i> (SE) thick-leaved water-willow										X						X		X				
<i>Koanophyllon villosum</i> (SE) Keys' thoroughwort							X	X														
<i>Kosteletzkya depressa</i> (SE) White fen							X															
<i>Lantana canescens</i> (SE) Hammock shrub verbena							X															
<i>Lantana depressa</i> var. <i>depressa</i> (*, SE) Florida lantana				X			X	X						X								
<i>Lantana depressa</i> var. <i>floridana</i> (SE) Atlantic Coast Florida lantana		X		X	X																	

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<i>Lantana depressa</i> var. <i>sanibelensis</i> West Coast lantana (SE)				X																		
<i>Lechea cernua</i> (*) Nodding pinweed		X							X													
<i>Lechea divaricata</i> (*, SE) Pine pinweed	X	X							X													
<i>Lechea lakelae</i> (*, SE) Lakela's pinweed		X																				
<i>Leiphaimos parasitica</i> (SE) Parasitic ghostplant							X									X						
<i>Leochilus labiatus</i> (SE) Lipped orchid																						
<i>Lepanthopsis melanantha</i> (*, SE) Tiny orchid																X	X	X				
<i>Liatris ohlingerae</i> (FE, SE) Scrub blazing star		X	X						X													
<i>Licaria triandra</i> (SE) Gulf licaria							X			X												

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<i>Lilium catesbaei</i> (ST) Southern red lily										X	X	X	X	X		X							
<i>Linum arenicola</i> (*, SE) Sand flax								X															
<i>Linum carteri</i> var. <i>carteri</i> (*, SE) Carter's small-flowered flax								X				X											
<i>Linum carteri</i> var. <i>smallii</i> (*, SE) Carter's large-flowered flax	X							X		X		X											
<i>Liparis nervosa</i> (SE) Tall twayblade orchid																	X						
<i>Listera australis</i> (ST) Southern twayblade																							
<i>Lobelia cardinalis</i> (ST) Cardinal flower																							
<i>Lomariopsis kunzeana</i> (SE) Climbing holly-fern							X																
<i>Lupinus aridorum</i> (FE, SE) Scrub lupine		X																					

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<i>Lycopodium dichotomum</i> (SE) Hanging clubmoss																	X					
<i>Lythrum flagellare</i> (*, SE) Lowland loosestrife											X				X	X	X	X				
<i>Macradenia lutescens</i> (SE) Trinidad macradenia							X															
<i>Manilkara jaimiqui</i> (ST) Wild dilly							X	X														
<i>Matelea floridana</i> (SE) Florida spiny-pod						X																
<i>Matelea gonocarpos</i> (ST) Angle-pod																						
<i>Matelea pubiflora</i> (SE) Sandhill spiny pod																						
<i>Maxillaria crassifolia</i> (SE) Hidden orchid																	X					
<i>Maxillaria parviflora</i> (SE) Minnie-max																	X					
<i>Maytenus phyllanthoides</i> (ST) Mayten					X		X															

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<i>Melanthera parvifolia</i> Small-leaved melanthera (*, ST)								X														
<i>Microgramma heterophylla</i> (SE) Climbing vine fern							X			X												
<i>Myrcianthes fragrans</i> var. <i>simpsonii</i> Twinberry (*, ST)							X															
<i>Myriophyllum laxum</i> (*) Piedmont water-milfoil																	X	X				
<i>Najas filifolia</i> (ST) Slender naiad																						
<i>Nemastylis floridana</i> (*, SE) Fall-flowering ixia									X	X				X		X		X				
<i>Nephrolepis biserrata</i> (ST) Giant sword fern							X			X							X					
<i>Neurodium lanceolatum</i> (SE) Ribbon fern																			X			
<i>Nolina atopocarpa</i> (ST) Florida beargrass									X		X											

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Nolina brittoniana</i> (FE, SE) Britton's beargrass	X	X	X						X													
<i>Nymphaea jamesoniana</i> Sleeping beauty waterlily															X							
<i>Ocimum campechianum</i> (SE) Wild basil							X	X														
<i>Okenia hypogaea</i> (SE) Burrowing four-o'clock				X																		
<i>Oncidium bahamense</i> (SE) Dancing-lady orchid		X																				
<i>Oncidium luridum</i> (SE) Mule-ear orchid				X			X															
<i>Oncidium floridanum</i> (SE) Florida oncidium							X															
<i>Ophioglossum palmatum</i> (SE) Hand fern											X										X	
<i>Opuntia corallicola</i> (SE) Semaphore cactus				X			X															
<i>Opuntia stricta</i> (ST) Shell mound prickly-pear		X		X	X																	

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs	
<i>Opuntia triacantha</i> (SE) Keys Joe-jumper				X			X																
<i>Panicum abscissum</i> (*, SE) Cutthroat grass											X	X	X		X	X							
<i>Paronychia chartacea</i> (FT, SE) Papery whitflow-wort	X	X																					
<i>Passiflora multiflora</i> (SE) White-flowered passionvine							X																
<i>Passiflora pallens</i> (SE) Pineland passionvine							X										X						
<i>Passiflora sexflora</i> (SE) Goat's foot leaf passionvine							X																
<i>Pavonia paludicola</i> (SE) Swampbush																			X				
<i>Pavonia spinifex</i> Yellow hibiscus						X										X							
<i>Pechuma dispersa</i> (SE) Widespread polypody							X																
<i>Pechuma plumula</i> (SE) Plume polypody							X										X						

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Pecluma ptilodon</i> (SE) Swamp plume polypody																						
<i>Peltandra sagittifolia</i> Spoon-flower															X	X	X					
<i>Peperomia amplexicaulis</i> (SE) Clasping peperomia							X															
<i>Peperomia glabella</i> (SE) Cypress peperomia										X							X					
<i>Peperomia humilis</i> (SE) Peperomia					X	X	X									X	X		X			
<i>Peperomia magnoliifolia</i> (SE) Spathulate peperomia							X															
<i>Peperomia obtusifolia</i> (SE) Florida peperomia							X										X					
<i>Persea humilis</i> Scrub bay	X	X							X													
<i>Pharus parvifolius</i> Creeping-leaf stalkgrass						X																
<i>Phoradendron rubrum</i> (SE) Mahogony mistletoe							X															

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Phyla stoechadifolia</i> (SE) Southern matchsticks								X							X							
<i>Phyllanthus pentaphyllus</i> ssp. <i>floridanus</i> Florida five-petaled leaf flower (*)								X			X											
<i>Picramnia pentandra</i> (SE) Florida bitterbush							X															
<i>Pilosocereus robinii</i> (FE, SE) Key tree-cactus				X			X															
<i>Pilosocereus bahamensis</i> (SE) Bahamian treecactus							X															
<i>Pinguicula caerulea</i> (ST) Blue butterwort										X	X	X	X									
<i>Pinguicula lutea</i> (ST) Yellow butterwort										X	X	X	X									
<i>Pisonia floridana</i> Rock Key devi's-claw							X															
<i>Pisonia rotundata</i> (SE) Devil's smooth claws				X				X														

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Pithecellobium keyense</i> (ST) Blackbead				X			X	X														
<i>Platanthera blephariglottis</i> (ST) White-fringed orchid													X									
<i>Platanthera ciliaris</i> (*,ST) Yellow-fringed orchid													X									
<i>Platanthera cristata</i> (ST) Crested fringed orchid													X									
<i>Platanthera flava</i> (ST) Gypsy-spikes																						
<i>Platanthera integra</i> (*, SE) Yellow fringeless orchid										X			X	X								
<i>Platanthera nivea</i> (ST) Snowy orchid											X											
<i>Pleopeltis astrolepis</i> (SE) Star-scale fern																	X					
<i>Pleurothallis gelida</i> (SE) Frosted orchid																	X					
<i>Pogonia ophioglossoides</i> (ST) Rose pogonia													X									

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Poinsettia pinetorum</i> (SE) Everglades poinsettia								X	X		X											
<i>Polygala boykinii</i> var. <i>sparsifolia</i> (*) Boykin's few-leaved milkwort							X	X						X								
<i>Polygala lewtonii</i> (FE, SE) Lewton's polygala	X	X	X																			
<i>Polygala smallii</i> (FE, SE) Tiny polygala	X	X						X	X													
<i>Polygonella basiramia</i> (FE, SE) Wireweed		X																				
<i>Polygonella myriophylla</i> (FE, SE) Sandlace		X	X																			
<i>Polyrrhiza lindenii</i> (SE) Ghost orchid						X										X	X					
<i>Polystachya concreta</i> (SE) Pale-flowered polystachya							X										X					
<i>Ponthieva brittoniae</i> (SE) Mrs. Britton's shadow-witch orchid								X	X													

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Prescottia oligantha</i> (SE) Small-flowered orchid							X															
<i>Prunus geniculata</i> (FE, SE) Scrub plum	X	X	X																			
<i>Prunus myrtifolia</i> (ST) West Indian cherry							X	X														
<i>Pseudophoenix sargentii</i> (SE) Buccaneer palm							X															
<i>Psidium longipes</i> (ST) Mangrove berry							X	X														
<i>Psychotria ligustrifolia</i> (SE) Bahama wild coffee							X	X														
<i>Pteris bahamensis</i> (ST) Bahama ladder brake								X														
<i>Pteroglossaspis ecristata</i> (ST) wild coco		X				X		X	X		X											
<i>Remirea maritima</i> (SE) Beach star				X																		
<i>Reynosia septentrionalis</i> (ST) Darling plum					X		X	X														

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Rhipsalis baccifera</i> (SE) Mistletoe cactus							X												X			
<i>Rhizophora mangle</i> Red mangrove																			X			
<i>Rhynchosia cinerea</i> brown-haired snoutbean	X	X	X					X														
<i>Rhynchosia parvifolia</i> (ST) Small-leaf snoutbean								X														
<i>Rhynchosia swartzii</i> (SE) Swartz' snoutbean							X															
<i>Rhynchospora culixa</i> Georgia beakrush	X								X													
<i>Rhynchospora decurrens</i> Decurrent beakrush											X				X		X	X				
<i>Rhynchospora floridensis</i> Florida white-top sedge								X														
<i>Roystonea elata</i> (SE) Florida royal palm							X										X					
<i>Ruellia noctiora</i> (SE) Night-flowering ruellia											X			X		X						

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Sachsis bahamensis</i> (SE) Bahama sachsis								X														
<i>Salix floridana</i> (SE) Florida willow																	X					
<i>Sarracenia minor</i> (ST) Hooded pitcher-plant												X	X									
<i>Savia bahamensis</i> (SE) Maiden bush				X			X	X														
<i>Scaevola plumieri</i> (ST) Inkberry																						
<i>Schaefferia frutescens</i> (SE) Florida boxwood				X			X															
<i>Schizachyrium niveum</i> (*, SE) Riparian autumngrass	X	X																				
<i>Schizachyrium sericatum</i> (SE) Silky bluestem																						
<i>Schizaea germanii</i> (SE) Tropical curly-grass						X																
<i>Scleria lithosperma</i> (SE) Keys' nutrush							X															

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Scutellaria havanensis</i> (SE) Havana skullcap								X			X											
<i>Selaginella eatonii</i> (SE) Eaton's spike moss							X	X														
<i>Senna mexicana</i> (ST) Chapman's sensitive plant								X														
<i>Setaria chapmanii</i> (SE) Coral panic grass							X															
<i>Smilax havanensis</i> (ST) Everglades greenbrier							X	X														
<i>Solanum bahamense</i> var. <i>Rugelii</i> Rugel's Key West horse-nettle							X															
<i>Solanum donianum</i> (ST) Potato tree							X	X														
<i>Sophora tomentosa</i> Necklace pod				X	X														X	X		
<i>Spermacoce terminalis</i> (ST) False buttonweed								X							X							
<i>Sphenomeris clavata</i> (SE) Wedgelet fern							X	X			X											

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<i>Spiranthes adnata</i> (SE) Pelexia							X															
<i>Spiranthes brevilabris</i> (SE) Small ladies'-tresses										X												
<i>Spiranthes costaricensis</i> (SE) Costa Rican ladies'-tresses							X															
<i>Spiranthes elata</i> (SE) Tall neottia						X	X															
<i>Spiranthes laciniata</i> (ST) Lace-lip ladies' tresses										X					X							
<i>Spiranthes longilabris</i> (ST) Long-lip ladies' tresses									X	X	X											
<i>Spiranthes polyantha</i> (*, SE) Florida Keys ladies' tresses						X	X															
<i>Spiranthes torta</i> (SE) Southern ladies' tresses							X	X							X							
<i>Spiranthes tuberosa</i> (ST) Little pearl-twist																						
<i>Stenorrhynchos lanceolatus</i> (ST) Leafless beaked orchid						X	X		X								X					

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Stillingia sylvatica</i> ssp. <i>tenuis</i> (*) Slender queen's delight		X	X					X		X	X											
<i>Strumpfia maritima</i> (SE) Pride-of-Big Pine				X			X	X						X				X				
<i>Stylisma abdita</i> (SE) Hidden stylisma	X	X	X																			
<i>Stylosanthes calcicola</i> (SE) Everglades pencil flower								X							X							
<i>Suriana maritima</i> (SE) Bay cedar				X																		
<i>Swietenia mahagoni</i> (SE) Mahogany							X															
<i>Tectaria x amesiana</i> Ames halberd fern							X															
<i>Tectaria coriandrifolia</i> (*, SE) Hattie Bauer halberd fern							X															
<i>Tectaria fimbriata</i> (=lobata) (SE) Least, lobed halberd fern							X															

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Tectaria heracleifolia</i> (ST) Broad halberd fern							X															
<i>Tephrosia angustissima</i> var. <i>angustissima</i> (SE) Hoary pea								X		X												
<i>Tephrosia angustissima</i> var. <i>curtissi</i> narrow leaved hoary-pea (SE)				X																		
<i>Tephrosia angustissima</i> var. <i>corallicola</i> (SE) Devil's shoestring								X														
<i>Tetrazygia bicolor</i> (ST) Tetrazygia							X	X			X											
<i>Thelypteris augescens</i> (ST) Abrupt-tipped maiden fern							X										X					
<i>Thelypteris grandis</i> (SE) Stately maiden fern																	X					
<i>Thelypteris patens</i> (SE) Grid-scale maiden fern							X															
<i>Thelypteris reptans</i> (SE) Creeping star-hair fern							X															

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Thelypteris reticulata</i> (SE) Lattice-vein fern																	X	X				
<i>Thelypteris sclerophylla</i> (SE) Stiff star-hair fern							X				X											
<i>Thelypteris serrata</i> (SE) Dentate lattice-vein fern											X						X	X				
<i>Thrinax morrisii</i> (SE) Brittle thatch palm					X	X	X	X											X			
<i>Thrinax radiata</i> (SE) Florida thatch palm					X	X		X														
<i>Tillandsia balbisiana</i> (ST) Inflated wild-pine		X				X	X				X						X					
<i>Tillandsia fasciculata</i> (SE) Common wild-pine		X	X			X	X				X				X		X					
<i>Tillandsia flexuosa</i> (SE) Twisted air plant		X		X	X	X	X				X						X	X				
<i>Tillandsia pruinosa</i> (SE) Fuzzy-wuzzy air plant		X			X												X					
<i>Tillandsia utriculata</i> (SE) Giant wild-pine		X	X				X				X						X					

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Tillandsia valenzuelana</i> (ST) Soft-leaved wild-pine						X	X				X						X					
<i>Tournefortia gnaphalodes</i> (SE) Sea lavender				X			X															
<i>Tournefortia hirsutissima</i> (SE) Chiggery-grapes							X															
<i>Tragia saxicola</i> (*, ST) Rockland noseburn								X														
<i>Trema lamarckianum</i> (SE) Lamarck's trema							X	X							X							
<i>Trichomanes holopterum</i> (SE) Entire-winged bristle																X	X					
<i>Trichomanes krausii</i> (SE) Kraus' bristle fern							X															
<i>Trichomanes lineolatum</i> (SE) Lined bristle fern							X															
<i>Trichomanes punctatum</i> (SE) Florida bristle fern						X	X															
<i>Trichostigma octandrum</i> (SE) Hoop vine							X															

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<i>Triphora craigheadii</i> (*, SE) Craighead's nodding-caps						X	X															
<i>Triphora latifolia</i> (*, SE) Broad-leaved nodding-caps																X						
<i>Tripsacum floridanum</i> (*, ST) Florida gama grass								X							X							
<i>Tropidia polystachya</i> (SE) Young palm orchid							X									X						
<i>Vallesia antillana</i> (SE) Tear shrub				X			X															
<i>Vanilla barbellata</i> (SE) Worm-vine orchid						X	X												X			
<i>Vanilla dilloniana</i> (SE) Dillon's vanilla							X															
<i>Vanilla mexicana</i> (SE) Unscented vanilla					X		X								X	X						
<i>Vanilla phaeantha</i> (SE) Leafy vanilla																	X	X				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Verbena maritima</i> (SE) Coastal vervain										X												
<i>Verbena tampensis</i> (SE) Tampa vervain																						
<i>Vernonia blodgettii</i> (SE) Blodgett's ironweed								X		X	X	X		X								
<i>Warea amplexifolia</i> (FE, SE) Wide-leaf warea	X																					
<i>Warea carteri</i> (FE, SE) Carter's mustard	X	X	X						X	X												
<i>Zanthoxylum coriaceum</i> (SE) Prickly ash					X		X															
<i>Zanthoxylum flavum</i> (SE) Yellowheart				X			X															
<i>Zephyranthes simpsonii</i> (ST) Simpson's zephyr-lily											X			X				X				
<i>Zephyranthes treatiae</i> (ST) Treat's zephyr-lily																						

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood hammock	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	Seagrass	Nearshore reefs
<i>Ziziphus celata</i> (FE, SE) Florida ziziphus	X	X																				

Appendix D. Migratory Birds in South Florida.

ORDER GAVIIFORMES

FAMILY GAVIIDAE

Gavia stellata, Red-throated loon

Gavia immer, Common loon

Gavia pacifica, Pacific loon

ORDER PODICIPEDIFORMES

FAMILY PODICIPEDIDAE

Tachybaptus, Least Grebe

Podilymbus podiceps, Pied-billed Grebe

Podiceps auritus, Horned Grebe

Podiceps nigricollis, Eared Grebe

ORDER PROCELLARIIFORMES

FAMILY PROCELLARIIDAE

Calonectris diomedea, Cory's Shearwater

Puffinus gravis, Greater Shearwater

Puffinus griseus, Sooty Shearwater

Puffinus puffinus, Manx Shearwater

Puffinus lherminieri, Audubon's Shearwater

FAMILY HYDROBATIDAE

Oceanites oceanicus, Wilson's Storm-Petrel

Oceanodroma leucorhoa, Leach's Storm-Petrel

Oceanodroma castro, Band-rumped Storm-Petrel

ORDER PELECANIFORMES

FAMILY PHAETHONTIDAE

Phaethon lepturus, White-tailed Tropicbird

Phaethon aethereus, Red-tailed Tropicbird

FAMILY SULIDAE

Sula dactylatra, Masked Booby

Sula leucogaster, Brown Booby

Sula sula, Red-footed Booby

Sula bassanus, Northern Gannet

FAMILY PELECANIDAE

Pelecanus erythrorhynchos, American White Pelican

Pelecanus occidentalis, Brown Pelican

FAMILY PHALACROCORACIDAE

Phalacrocorax carbo, Great Cormorant

Phalacrocorax auritus, Double-crested Cormorant

FAMILY ANHINGIDAE

Anhinga anhinga, Anhinga

FAMILY FREGATIDAE

Fregata magnificens, Magnificent Frigatebird

ORDER CICONIIFORMES

FAMILY ARDEIDAE

Botaurus lentiginosus, American Bittern

Ixobrychus exilis, Least Bittern

Ardea herodias, Great Blue Heron

Casmerodius albus, Great Egret

Egretta thula, Snowy Egret

Egretta caerulea, Little Blue Heron

Egretta tricolor, Tricolored Heron

Egretta rufescens, Reddish Egret

Bubulcus ibis, Cattle Egret

Butorides striatus, Green-backed Heron

Nycticorax nycticorax, Black-crowned Night Heron

Nycticorax violaceus, Yellow-crowned Night Heron

FAMILY THRESKIORNITHIDAE

Eudocimus albus, White Ibis

Eudocimus ruber, Scarlet Ibis

Plegadis falcinellus, Glossy Ibis

Plegadis chihi, White-faced Ibis

Ajaia ajaja, Roseate Spoonbill

FAMILY CICONIIDAE

Mycteria americana, Wood Stork

ORDER PHOENICOPTERIFORMES

FAMILY PHOENICOPTERIDAE

Phoenicopterus ruber, Greater Flamingo

ORDER ANSERIFORMES

FAMILY ANATIDAE

Dendrocygna bicolor, Fulvous Whistling-Duck

Dendrocygna autumnalis, Black-bellied
Whistling-Duck

Anser albifrons, Greater White-fronted Goose

Chen caerulescens, Snow Goose

Branta bernicla, Brant

Branta canadensis, Canada Goose

Aix sponsa, Wood Duck

Anas crecca, Green-winged Teal

Anas rubripes, American Black Duck

Anas fulvigula, Mottled Duck

Anas platyrhynchos, Mallard

Anas bahamensis, White-cheeked Pintail

Anas acuta, Northern Pintail

Anas discors, Blue-winged Teal

Anas cyanoptera, Cinnamon Teal

Anas clypeata, Northern Shoveler

Anas strepera, Gadwall

Anas penelope, Eurasian Wigeon

Anas americana, Redhead

Aythya collaris, Ring-necked Duck

Aythya marila, Greater Scaup

Aythya affinis, Lesser Scaup

Somateria spectabilis, King Elder

Histrionicus histrionicus, Harlequin Duck

Clangula hyemalis, Oldsquaw

Melanitta fusca, White-winged Scoter

Bucephala clangula, Common Goldeneye

Bucephala albeola, Bufflehead

Lophodytes cucullatus, Hooded Merganser

Mergus merganser, Common Merganser

Mergus serrator, Red-breasted Merganser

Oxyura jamaicensis, Rudy Duck

Oxyura dominica, Masked Duck

ORDER FALCONIFORMES

FAMILY CATHARTIDAE

Coragyps atratus, Black Vulture

Cathartes aura, Turkey Vulture

FAMILY ACCIPITRIDAE

Pandion haliaetus, Osprey

Elanoides forficatus, American Swallow-tailed Kite

Elanus caeruleus, Black-shouldered Kite

Rhostrhamus sociabilis, Snail Kite

Ictinia mississippiensis, Mississippi Kite

Haliaeetus leucocephalus, Bald Eagle

Circus cyaneus, Northern Harrier

Accipiter striatus, Sharp-shinned Hawk

Accipiter cooperii, Cooper's Hawk

Buteo lineatus, Red-shouldered Hawk

Buteo platypterus, Broad-winged Hawk

Buteo brachyurus, Short-tailed Hawk

Buteo swainsoni, Swainson's Hawk

Buteo jamaicensis, Red-tailed Hawk

FAMILY FALCONIDAE

Polyborus plancus, Crested Caracara

Falco sparverius, American Kestrel

Falco columbarius, Merlin

Falco peregrinus, Peregrine Falcon

ORDER GRUIFORMES

FAMILY RALLIDAE

Coturnicops noveboracensis, Yellow Rail

Laterallus jamaicensis, Black Rail

Rallus longirostris, Clapper Rail

Rallus elegans, King Rail

Rallus limicola, Virginia Rail

Porzana caarolina, Sora

Porphyryula martinica, Purple Gallinule

Gallinula chloropus, Common Moorhen

Fulica americana, American Coot

FAMILY ARAMIDAE

Aramus guarana, Limpkin

FAMILY GRUIDAE

Grus canadensis, Sandhill Crane

ORDER CHARADRIIFORMES

FAMILY CHARADRIIDAE

Pluvialis squatarola, Black-bellied Plover

Pluvialis dominica, Lesser Golden-Plover

Charadrius alexandrinus, Snowy Plover

Charadrius wilsonia, Wilson's Plover

Charadrius semipalmatus, Semipalmated Plover
Charadrius melodus, Piping Plover
Charadrius vociferus, Killdeer
Charadrius montanus, Mountain Plover

FAMILY HAEMATOPODIDAE

Haematopus palliatus, American Oystercatcher

FAMILY RECURVIROSTRIDAE

Himantopus mexicanus, Black-necked Stilt
Recurvirostra americana, American Avocet

FAMILY SCOLOPACIIDAE

Tringa melanoleuca, Greater Yellowlegs
Tringa flavipes, Lesser Yellowlegs
Tringa solitaria, Solitary Sandpiper
Catoptrophorus semipalmatus, Willet
Actitis macularia, Spotted Sandpiper
Bartramia longicauda, Upland Sandpiper
Numenius phaeopus, Whimbrel
Numenius americanus, Long-billed Curlew
Limosa limosa, Black-tailed Godwit
Limosa haemastica, Hudsonian Godwit
Limosa fedoa, Marbled Godwit
Arenaria interpres, Ruddy Turnstone
Aphriza virgata, Surfbird
Calidris canutus, Red Knot
Calidris alba, Sanderling
Calidris pusilla, Semipalmated Sandpiper
Calidris mauri, Western Sandpiper
Calidris minutilla, Least Sandpiper
Calidris fuscicollis, White-rumped Sandpiper
Calidris bairdii, Baird's Sandpiper
Calidris melanotos, Pectoral Sandpiper
Calidris acuminata, Sharp-tailed Sandpiper
Calidris maritima, Purple Sandpiper
Calidris alpina, Dunlin
Calidris ferruginea, Curlew Sandpiper
Calidris himantopus, Stilt Sandpiper
Tryngites subruficollis, Buff-breasted Sandpiper
Philomachus pugnax, Ruff
Limnodromus griseus, Short-billed Dowitcher
Gallinago gallinago, Common Snipe
Scolopax minor, American Woodcock
Phalaropus tricolor, Wilson's Phalarope
Phalaropus lobatus, Red-necked Phalarope
Phalaropus fulicaria, Red Phalarope

FAMILY LARIDAE

Stercorarius pomarinus, Pomarine Jaeger
Stercorarius parasiticus, Parasitic Jaeger
Stercorarius longicaudus, Long-tailed Jaeger
Larus atricilla, Laughing Gull
Larus pipixcan, Franklin's Gull
Larus minutus, Little Gull
Larus ridibundus, Common Black-headed Gull
Larus philadelphia, Bonaparte's Gull
Larus delawarensis, Ring-billed Gull
Larus argentatus, Herring Gull
Larus thayeri, Thayer's Gull
Larus fuscus, Lesser Black-backed Gull
Larus hyperboreus, Glaucous Gull
Larus marinus, Great Black-backed Gull
Rissa tridactyla, Black-legged Kittiwake
Xema sabini, Sabine's Gull
Sterna nilotica, Gull-billed Tern
Sterna caspia, Caspian Tern
Sterna maxima, Royal Tern
Sterna sandvicensis, Sandwich Tern
Sterna dougallii, Roseate Tern
Sterna hirundo, Common Tern
Sterna paradisaea, Arctic Tern
Sterna forsteri, Forster's Tern
Sterna antillarum, Least Tern
Sterna anaethetus, Bridled Tern
Sterna fuscata, Sooty Tern
Chlidonias niger, Black Tern
Anous stolidus, Brown Noddy
Rynchops niger, Black Skimmer

FAMILY ALCIDAE

Alle alle, Dovekie
Alca torda, Razorbill

ORDER COLUMBIFORMES

FAMILY COLUMBIDAE

Columba squamosa, Scaly-naped Pigeon
Columba leucocephala, White-crowned Pigeon
Columba fasciaata, Band-tailed Pigeon
Zenaida asiatica, White-winged Dove
Zenaida aurita, Zenaida Dove
Zenaida macroura, Mourning Dove
Columbina passerina, Common Ground-Dove
Geotrygon chrysis, Key West Quail-Dove
Geotrygon montana, Ruddy Quail-Dove

ORDER CUCULIFORMES

FAMILY CUCULIDAE

Coccyzus erythrophthalmus, Black-billed Cuckoo
Coccyzus americanus, Yellow-billed Cuckoo
Coccyzus minor, Mangrove Cuckoo
Crotophaga ani, Smooth-billed Ani
Crotophaga sulcirostris, Groove-billed Ani

ORDER STRIGIFORMES

FAMILY TYTONIDAE

Tyto alba, Common Barn-Owl

FAMILY STRIGIDAE

Otus asio, Eastern Screech-Owl
Bubo virginianus, Great Horned Owl
Athene cunicularia, Burrowing Owl
Strix varia, Barred Owl
Asio otus, Long-eared Owl
Asio flammeus, Short-eared Owl
Aegolius acadicus, Northern Saw-whet Owl

ORDER CAPRIMULGIFORMES

FAMILY CAPRIMULGIDAE

Chordeiles acutipennis, Lesser Nighthawk
Chordeiles minor, Common Nighthawk
Chordeiles gundlachii, Antillean Nighthawk
Caprimulgus carolinensis, Chuck-will's-widow
Caprimulgus vociferus, Whip-poor-will

ORDER APODIFORMES

FAMILY APODIDAE

Chaetura pelagica, Chimney Swift
Tachornis phoenicobia, Antillean Palm Swift

FAMILY TROCHILIDAE

Amazilia yucatanensis, Buff-bellied Hummingbird
Calliphlox evelynae, Bahama Woodstar
Archilochus colubris, Ruby-throated Hummingbird
Archilochus alexandri, Black-chinned Hummingbird
Selasphorus rufus, Rufous Hummingbird

ORDER CORACIIFORMES

FAMILY ALCEDINIDAE

Ceryle alcyon, Belted Kingfisher

ORDER PICIFORMES

FAMILY PICIDAE

Melanerpes erythrocephalus, Red-headed Woodpecker
Melanerpes carolinus, Red-bellied Woodpecker
Sphyrapicus varius, Yellow-bellied Sapsucker
Picoides pubescens, Downy Woodpecker
Picoides villosus, Hairy woodpecker
Picoides borealis, Red-cockaded Woodpecker
Colaptes auratus, Northern Flicker
Dryocopus pileatus, Pileated Woodpecker
Campephilus principalis, Ivory-billed Woodpecker

ORDER PASSERIFORMES

FAMILY TYRANNIDAE

Contopus borealis, Olive-sided flycatcher
Contopus virens, Eastern Wood-Pewee
Empidonax flaviventris, Yellow-bellied Flycatcher
Empidonax virescens, Acadian Flycatcher
Empidonax alnorum, Alder Flycatcher
Empidonax traillii, Willow Flycatcher
Empidonax minimus, Least Flycatcher
Sayornis nigricans, Black Phoebe
Sayornis phoebe, Eastern Phoebe
Sayornis saya, Say's Phoebe
Pyrocephalus rubinus, Vermilion Flycatcher
Myiarchus cinerascens, Ash-throated Flycatcher
Myiarchus crinitus, Great Crested Flycatcher
Myiarchus tyrannulus, Brown-crested Flycatcher
Tyrannus vociferans, Cassin's Kingbird
Tyrannus verticalis, Western Kingbird
Tyrannus tyrannus, Eastern Kingbird
Tyrannus dominicensis, Gray Kingbird
Tyrannus caudifasciatus, Loggerhead Kingbird
Tyrannus forficatus, Scissor-tailed Flycatcher
Tyrannus savana, Fork-tailed Flycatcher

FAMILY ALAUDIDAE

Eremophila alpestris, Horned Lark

FAMILY HIRUNDINIDAE

Progne subis, Purple Martin
Tachycineta bicolor, Tree Swallow
Tachycineta cyaneoviridis, Bahama Swallow
Stelgidopteryx serripennis, N. Rough-winged Swallow
Riparia riparia, Bank Swallow
Hirundo pyrrhonota, Cliff Swallow
Hirundo fulva, Cave Swallow
Hirundo rustica, Barn Swallow

FAMILY CORVIDAE

Cyanocitta cristata, Blue Jay
Aphelocoma coerulescens, Florida Scrub Jay
Corvus brachyrhynchos, American Crow
Corvus ossifragus, Fish Crow

FAMILY PARIDAE

Parus carolinensis, Carolina Chickadee
Parus bicolor, Tufted Titmouse

FAMILY SITTIDAE

Sitta canadensis, Red-breasted Nuthatch
Sitta pusilla, Brown-headed Nuthatch

FAMILY CERTHIIDAE

Certhia americana, Brown creeper

FAMILY TROGLODYTIDAE

Thryothorus ludovicianus, Carolina Wren
Troglodytes aedon, House Wren
Troglodytes troglodytes, Winter Wren
Cistothorus platensis, Sedge Wren
Cistothorus palustris, Marsh Wren

FAMILY MUSCICAPIDAE

SUBFAMILY SYLVIINAE

Regulus satrapa, Golden-crowned Kinglet
Regulus calendula, Ruby-crowned Kinglet
Poliophtila caerulea, Blue-gray Gnatcatcher

SUBFAMILY TURDINAE

Oenanthe oenanthe, Northern Wheatear
Sialis sialis, Eastern Bluebird
Catharus fuscescens, Veery

Catharus minimus, Gray-cheeked Thrush
Catharus ustulatus, Swainson's Thrush
Catharus guttatus, Hermit Thrush
Hylocichla mustelina, Wood Thrush
Turdus migratorius, American Robin
Ixoreus naevius, Varied Thrush

FAMILY MIMIDAE

Dumetella carolinensis, Gray Catbird
Mimus gundlachi, Behamian Mockingbird
Mimus polyglottos, Northern Mockingbird
Toxostoma rufum, Brown Thrasher

FAMILY MOTACILLIDAE

Anthus spragueii, Sprague's Pipit

FAMILY BOMBYCILLIDAE

Bombycilla cedrorum, Cedar Waxwing

FAMILY LANIIDAE

Lanius ludovicianus, Loggerhead Shrike

FAMILY VIREONIDAE

Vireo griseus, White-eyed Vireo
Vireo bellii, Bell's Vireo
Vireo solitarius, Solitary Vireo
Vireo flavifrons, Yellow-throated Vireo
Vireo gilvus, Warbling Vireo
Vireo philadelphicus, Philadelphia Vireo
Vireo olivaceus, Red-eyed Vireo
Vireo altiloquus, Black-whiskered Vireo
Vireo crassirostris, Thick-billed Vireo

FAMILY EMBERIZIDAE

SUBFAMILY PARULINAE

Vermivora bachmanii, Bachman's Warbler
Vermivora pinus, Blue-winged Warbler
Vermivora chrysoptera, Golden-winged Warbler
Vermivora peregrina, Tennessee Warbler
Vermivora celata, Orange-crowned Warbler
Vermivora ruficapilla, Nashville Warbler
Parula americana, Northern Parula
Dendroica coronata, Yellow-rumped Warbler
Dendroica petechia, Yellow Warbler
Dendroica pensylvanica, Chestnut-sided Warbler

Dendroica magnolia, Magnolia Warbler
Dendroica tigrina, Cape May Warbler
Dendroica caerulescens, Black-throated Blue Warbler
Dendroica townsendi, Townsend's Warbler
Dendroica virens, Black-throated Green Warbler
Dendroica fusca, Blackburnian Warbler
Dendroica dominica, Yellow-throated Warbler
Dendroica pinus, Pine Warbler
Dendroica kirtlandii, Kirtland's Warbler
Dendroica discolor, Prairie Warbler
Dendroica palmarum, Palm Warbler
Dendroica castanea, Bay-breasted Warbler
Dendroica striata, Blackpoll Warbler
Dendroica cerulea, Cerulean Warbler
Mniotilta varia, Black-and-White Warbler
Setophaga ruticilla, American Redstart
Protonotaria citrea, Prothonotary Warbler
Helmitheros vermivorus, Worm-eating Warbler
Limnithlypis swainsonii, Swainson's Warbler
Seiurus noveboracensis, Northern Waterthrush
Seiurus motacilla, Louisiana Waterthrush
Oporornis formosus, Kentucky Warbler
Oporornis agilis, Connecticut Warbler
Oporornis philadelphia, Mourning Warbler
Geothlypis trichas, Common Yellowthroat
Wilsonia citrina, Hooded Warbler
Wilsonia pusilla, Wilson's Warbler
Wilsonia canadensis, Canada Warbler
Icteria virens, Yellow-breasted Chat

SUBFAMILY THRAUPINAE

Spindalis zena, Stripe-headed Tanager
Piranga rubra, Summer Tanager
Piranga olivacea, Scarlet Tanager
Piranga ludoviciana, Western Tanager

SUBFAMILY THRAUPINAE

Spindalis zena, Stripe-headed Tanager
Piranga rubra, Summer Tanager
Piranga olivacea, Scarlet Tanager
Piranga ludoviciana, Western Tanager

SUBFAMILY CARDINALINAE

Cardinalis cardinalis, Northern Cardinal
Pheucticus ludovicianus, Rose-breasted Grosbeak

Pheucticus melanocephalus, Black-headed Grosbeak

Guiraca caerulea, Blue Grosbeak
Passerina amoena, Lazuli Bunting
Passerina cyanea, Indigo Bunting
Passerina ciris, Painted Bunting
Spiza americana, Dickcissel

SUBFAMILY EMBERIZINAE

Pipilo erythrophthalmus, Rufous-sided Towhee
Tiaris bicolor, Black-faced Grassquit
Aimophila aestivalis, Bachman's Sparrow
Spizella passerina, Chipping Sparrow
Spizella pallida, Clay-colored Sparrow
Spizella pusilla, Field Sparrow
Pooecetes gramineus, Vesper Sparrow
Chondestes grammacus, Lark Sparrow
Calamospiza melanocorys, Lark Bunting
Passerculus sandwichensis, Savannah Sparrow
Ammodramus savannarum, Grasshopper Sparrow
Ammodramus henslowii, Henslow's Sparrow
Ammodramus leconteii, Le Conte's Sparrow
Ammodramus caudacutus, Sharp-tailed Sparrow
Ammodramus maritimus, Seaside Sparrow
Melospiza melodia, Song Sparrow
Melospiza lincolni, Lincoln's Sparrow
Melospiza georgiana, Swamp Sparrow
Zonotrichia albicollis, White-throated Sparrow
Zonotrichia leucophrys, White-crowned Sparrow
Zonotrichia querula, Harris' Sparrow
Junco hyemalis, Dark-eyed Junco
Calcarius lapponicus, Lapland Longspur

SUBFAMILY ICTERINAE

Dolichonyx oryzivorus, Bobolink
Agelaius phoeniceus, Red-winged Blackbird
Sturnella magna, Eastern Meadowlark
Sturnella neglecta, Western Meadowlark
Xanthocephalus xanthocephalus, Yellow-headed Blackbird
Euphagus crolinus, Rusty Blackbird
Euphagus cyanocephalus, Brewer's Blackbird
Quiscalus major, Boat-tailed Grackle
Quiscalus quiscula, Common Grackle
Molothrus bonariensis, Shiny Cowbird
Molothrus aeneus, Bronzed Cowbird
Molothrus ater, Brown-headed Cowbird
Icterus spurius, Orchard Oriole
Icterus galbula, Northern Oriole

FAMILY FRINGILLIDAE

SUBFAMILY CARDUELINAE

Carpodacus purpureus, Purple Finch

Carduelis pinus, Pine Siskin

Carduelis tristis, American Goldfinch

Appendix E. Exotic Plant Species Reported from the South Florida Ecosystem.

Community types are indicated where known

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Abelmoschus esculentus</i>																				
<i>Abrus precatorius</i>	X	X		X	X	X	X	X	X	X				X	X		X			
<i>Abutilon hirtum</i>																				
<i>Abutilon theophrasti</i>																				
<i>Acacia auriculiformis</i>		X		X	X	X	X	X	X	X							X			
<i>Acacia retinoides</i>																				
<i>Acacia sphaerocephala</i>																				
<i>Acalypha alopecuroidea</i>																				
<i>Acalypha amentacea ssp. wilkesiana</i>																				
<i>Acanthospermum australe</i>																				
<i>Acanthospermum hispidum</i>																				
<i>Achyranthes aspera</i> var. <i>aspera</i>							X													
<i>Achyranthes aspera</i> var. <i>pubescens</i>																				
<i>Acmella pilosa</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Acrocomia aculeata</i>							X													
<i>Adenantha pavonina</i>						X	X													
<i>Adiantum anceps</i>							X													
<i>Adiantum caudatum</i>																				
<i>Adiantum trapeziforme</i>							X													
<i>Agave americana</i>																				
<i>Agave angustifolia cv. marginata</i>		X																		
<i>Agave desmettiana</i>																				
<i>Agave sisalana</i>		X		X	X		X	X	X											
<i>Agdestis clematidea</i>							X													
<i>Ageratum conyzoides</i>																				
<i>Ageratum houstonianum</i>																				
<i>Aglaonema commutatum var. maculatum</i>																				
<i>Ailanthus altissima</i>																				
<i>Albizia julibrissin</i>																				
<i>Albizia lebbek</i>		X		X	X	X	X	X	X											
<i>Albizia lebeckoides</i>																				
<i>Albizia procera</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Alectryon coriaceus</i>																				
<i>Aleurites moluccanus</i>							X													
<i>Allamanda cathartica</i>		X		X	X	X	X	X	X											
<i>Alocasia macrorrhizos</i>																				
<i>Aloe vera</i>																				
<i>Alstonia macrophylla</i>							X													
<i>Alstroemeria pulchella</i>																				
<i>Alternanthera brasiliana</i>																				
<i>Alternanthera paronychioides</i>																				
<i>Alternanthera philoxeroides</i>														X		X				
<i>Alternanthera sessilis</i>											X									
<i>Alternanthera tenella</i>																				
<i>Alysicarpus ovalifolius</i>																				
<i>Alysicarpus rugosus</i>																				
<i>Alysicarpus vaginalis</i>								X												
<i>Amaranthus blitum</i>																				
<i>Amaranthus crassipes</i>																				
<i>Amaranthus dubius</i>																				
<i>Amaranthus hybridus</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh	
<i>Amaranthus polygonoides</i>																					
<i>Amaranthus retroflexus</i>																					
<i>Amaranthus spinosus</i>																					
<i>Amaranthus viridis</i>																					
<i>Ammi majus</i>																					
<i>Anagallis arvensis</i>																					
<i>Angelonia angustifolia</i>																					
<i>Aniseia martinicense</i>																					
<i>Annona squamosa</i>																					
<i>Anredera vesicaria</i>																					
<i>Antigonon leptopus</i>							X	X													
<i>Apium graveolens</i>																					
<i>Aptenia cordifolia</i>																					
<i>Arachis hypogaea</i>																					
<i>Arachis prostrata</i>																					
<i>Ardisia crenata</i>						X															
<i>Ardisia elliptica</i>						X	X							X	X		X				
<i>Argyreia nervosa</i>																					
<i>Aristolochia grandiflora</i>							X														

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Aristolochia littoralis</i>																				
<i>Aristolochia maxima</i>							X													
<i>Aristolochia rigens</i>																				
<i>Artemisia stelleriana</i>																				
<i>Arundo donax</i>																				
<i>Asclepias curassavica</i>				X			X													
<i>Asparagus densiflorus</i>		X		X	X		X	X	X											
<i>Asparagus officinalis</i>																				
<i>Asparagus setaceus</i>							X													
<i>Asystasia gangetica</i>																				
<i>Avena fatua</i> var. <i>sativa</i>																				
<i>Bambusa arundinacea</i>							X													
<i>Bambusa multiplex</i>																				
<i>Bambusa vulgaris</i>																				
<i>Barleria cristata</i>																				
<i>Barleria lupulina</i>																				
<i>Bauhinia aculeata</i>																				
<i>Bauhinia purpurea</i>																				
<i>Bauhinia variegata</i>								X												

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Bauhinia yunnanensis</i>																				
<i>Begonia hirtella</i>							X													
<i>Billbergia pyramidalis</i>																				
<i>Bischofia javanica</i>		X		X	X	X	X	X	X					X	X		X			
<i>Blechnum pyramidatum</i>						X	X													
<i>Boehmeria nivea</i>																				
<i>Bontia daphnoides</i>																				
<i>Bothriochloa ischaemum</i> var. <i>songarica</i>																				
<i>Bothriochloa pertusa</i>								X												
<i>Brassica juncea</i>																				
<i>Brassica rapa</i>																				
<i>Breynia disticha</i>																				
<i>Brosimum alicastrum</i>							X													
<i>Broussonetia papyrifera</i>							X													
<i>Bucida buceras</i>																				
<i>Buddleja lindleyana</i>																				
<i>Buddleja madagascariensis</i>		X																		
<i>Bulbostylis barbata</i>								X		X										
<i>Cabomba haynesii</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Caesalpinia crista</i>																				
<i>Caesalpinia pulcherrima</i>																				
<i>Cajanus cajan</i>																				
<i>Callisia fragrans</i>																				
<i>Callisia repens</i>																				
<i>Callistemon viminalis</i>								X						X	X					
<i>Callitris glaucophylla</i>		X																		
<i>Calophyllum inophyllum</i>				X																
<i>Calyptracarpus vialis</i>																				
<i>Canavalia brasiliensis</i>								X												
<i>Canavalia ensiformis</i>																				
<i>Canna indica</i>																				
<i>Canna x generalis</i>																				
<i>Cannabis sativa</i>																				
<i>Caperonia palustris</i>																				
<i>Cardiospermum halicacabum</i>							X													
<i>Carissa macrocarpa</i>								X												
<i>Carpobrotus edulis</i>																				
<i>Caryota mitis</i>							X													

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Cassia fistula</i>																				
<i>Cassia javanica</i> var. <i>indochinensis</i>																				
<i>Casuarina cunninghamiana</i>																				
<i>Casuarina equisetifolia</i>				X	X	X	X	X	X	X				X	X					
<i>Casuarina glauca</i>																				
<i>Catharanthus roseus</i>		X		X		X		X												
<i>Cecropia palmata</i>							X													
<i>Celosia trigyna</i>																				
<i>Cenchrus ciliaris</i>																				
<i>Centaurea cyanus</i>																				
<i>Centratherum punctatum</i>																				
<i>Cerastium glomeratum</i>																				
<i>Ceratotheca triloba</i>																				
<i>Cestrum diurnum</i>				X	X	X	X													
<i>Cestrum nocturnum</i>																				
<i>Chamaecrista pilosa</i>		X																		
<i>Chamaecrista rotundifolia</i>																				
<i>Chamaecrista serpens</i>																				
<i>Chamaedorea seifrizii</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Chamaesyce lasiocarpa</i>																				
<i>Chenopodium album</i>																				
<i>Chenopodium ambrosioides</i>		X		X					X											
<i>Chenopodium murale</i>																				
<i>Chloris barbata</i>																				
<i>Chloris gayana</i>																				
<i>Chloris radiata</i>																				
<i>Chromolaena ivaefolia</i>																				
<i>Chrysalidocarpus lutescens</i>		X				X	X													
<i>Chrysophyllum cainito</i>							X													
<i>Cinnamomum camphora</i>						X														
<i>Citrullus lanatus</i>				X																
<i>Citrus aurantiifolia</i>					X		X													
<i>Citrus aurantium</i>						X	X													
<i>Citrus limon</i>		X				X	X													
<i>Citrus medica</i>																				
<i>Citrus reticulata</i>						X	X													
<i>Citrus sinensis</i>		X				X	X													
<i>Citrus x limonia</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Citrus x paradisi</i>						X	X													
<i>Cleome gynandra</i>																				
<i>Cleome hassleriana</i>																				
<i>Cleome ruidosperma</i>																				
<i>Clerodendrum bungei</i>																				
<i>Clerodendrum chinense</i>				X																
<i>Clerodendrum glabrum</i>																				
<i>Clerodendrum indicum</i>																				
<i>Clerodendrum kaempferi</i>							X													
<i>Clerodendrum philippinum</i>							X													
<i>Clerodendrum speciosissimum</i>							X													
<i>Clerodendrum x speciosum</i>																				
<i>Clitoria ternatea</i>								X												
<i>Coccinea grandis</i>																				
<i>Cocos nucifera</i>				X															X	
<i>Coleus pumilus</i>																				
<i>Colocasia esculenta</i>																	X			
<i>Colubrina asiatica</i>				X	X		X													
<i>Commelina benghalensis</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Commelina caroliniana</i>																				
<i>Commelina forskalaei</i>																				
<i>Commelina nigriflora</i> var. <i>gambiae</i>																				
<i>Conoclinium multifidum</i>																				
<i>Corchorus aestuans</i>																				
<i>Cordia myxa</i>						X											X			
<i>Coreopsis tinctoria</i>																				
<i>Coriandrum sativum</i>																				
<i>Cornutia grandifolia</i>																				
<i>Coronilla varia</i>																				
<i>Coronopus didymus</i>																				
<i>Cosmos bipinnatus</i>																				
<i>Cosmos caudatus</i>																				
<i>Cosmos sulphureus</i>																				
<i>Costus spicatus</i>							X													
<i>Crinum asiaticum</i>																				
<i>Crotalaria incana</i>								X												
<i>Crotalaria lanceolata</i>																				
<i>Crotalaria ochroleuca</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Crotalaria pallida</i> var. <i>obovata</i>		X		X				X	X											
<i>Crotalaria retusa</i>								X												
<i>Crotalaria spectabilis</i>		X		X				X	X	X										
<i>Crotalaria verrucosa</i>								X												
<i>Crotalaria virgulata</i> ssp. <i>grantiana</i>																				
<i>Crotalaria zanzibarica</i>																				
<i>Cryptostegia grandiflora</i>							X													
<i>Cryptostegia madagascariensis</i>							X													
<i>Cucumis anguria</i>																				
<i>Cucumis melo</i>																				
<i>Cucurbita moschata</i>																				
<i>Cupaniopsis anacardioides</i>		X		X	X	X	X		X											
<i>Cuphea carthagenensis</i>										X										
<i>Cycas circinalis</i>							X													
<i>Cyclospermum leptophyllum</i>																				
<i>Cymbopogon citratus</i>																				
<i>Cynodon dactylon</i>				X			X	X												X
<i>Cynoglossum zeylanicum</i>																				
<i>Cyperus alopecuroides</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Cyperus difformis</i>																				
<i>Cyperus distans</i>																				
<i>Cyperus esculentus</i>																				
<i>Cyperus giganteus</i>																				
<i>Cyperus involucratus</i>																				
<i>Cyperus iria</i>																				
<i>Cyperus lanceolatus</i>																				
<i>Cyperus lentiginosus</i>																				
<i>Cyperus ochraceus</i>							X													
<i>Cyperus papyrus</i>																				
<i>Cyperus prolifer</i>																				
<i>Cyperus pumilus</i>																				
<i>Cyperus rotundus</i>																				
<i>Cyperus sphacelatus</i>																				
<i>Cypselea humifusa</i>																				
<i>Cyrtopodium paranaense</i>								X												
<i>Dactyloctenium aegyptium</i>		X		X				X	X											
<i>Dalbergia sissoo</i>								X												
<i>Daucus carota</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Delonix regia</i>						X	X	X												
<i>Desmanthus leptophyllus</i>																				
<i>Desmodium scorpiurus</i>								X												
<i>Desmodium triflorum</i>								X												
<i>Dianella caerulea</i>								X		X										
<i>Dichanthium aristatum</i>																				
<i>Dichanthium sericeum</i>																				
<i>Dichondra micrantha</i>																				
<i>Dichrostachys cinerea</i>																				
<i>Digitaria bicornis</i>																				
<i>Digitaria longiflora</i>									X											
<i>Digitaria milanjana</i>																				
<i>Digitaria pentzii</i>																				
<i>Digitaria setigera</i>																				
<i>Dioscorea alata</i>						X	X	X												
<i>Dioscorea bulbifera</i>		X			X	X	X	X	X								X			
<i>Dioscorea sansibarensis</i>							X													
<i>Diospyros digyna</i>							X													
<i>Diospyros ebenum</i>							X													

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<i>Diospyros maritima</i>							X													
<i>Diplazium esculentum</i>						X														
<i>Diplotaxis muralis</i>																				
<i>Echinochloa colona</i>																				
<i>Echinochloa crusgalli</i>															X		X			
<i>Echinochloa polystachya</i>																				
<i>Egeria densa</i>																				
<i>Ehretia microphylla</i>							X													
<i>Eichhornia crassipes</i>															X		X	X		
<i>Elaeis guineensis</i>							X													
<i>Eleocharis nigrescens</i>										X										
<i>Eleusine indica</i>				X				X												
<i>Emilia fosbergii</i>		X		X	X	X	X	X	X											
<i>Emilia sonchifolia</i>		X		X	X	X	X	X	X											
<i>Enterolobium cyclocarpum</i>																				
<i>Epidendrum radicans</i>																				
<i>Epiphyllum phyllanthus</i> var. <i>hookeri</i>																				
<i>Epipremnum pinnatum</i>						X	X										X			
<i>Equisetum hyemale</i> var. <i>affine</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Eragrostis amabilis</i>																				
<i>Eragrostis atrovirens</i>										X	X			X	X					
<i>Eragrostis bahiensis</i>																				
<i>Eragrostis barrelieri</i>																				
<i>Eragrostis cilianensis</i>																				
<i>Eragrostis ciliaris</i>		X																		
<i>Eragrostis cumingii</i>																				
<i>Eragrostis curvula</i>																				
<i>Eragrostis gangetica</i>																				
<i>Eragrostis pilosa</i>																				
<i>Eragrostis prolifera</i>																				
<i>Eragrostis scaligera</i>																				
<i>Eragrostis unioides</i>																				
<i>Eremochloa ophiuroides</i>		X							X											
<i>Eriobotrya japonica</i>						X	X													
<i>Eriochloa contracta</i>																				
<i>Eriochloa polystachya</i>																				
<i>Erucastrum gallicum</i>																				
<i>Eryngium foetidum</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Erysimum cheiranthoides</i>																				
<i>Eucalyptus grandis</i>										X										
<i>Eucalyptus robusta</i>																				
<i>Eugenia uniflora</i>		X		X	X	X	X	X	X											
<i>Eulalia amaura</i>																				
<i>Euphorbia graminea</i>					X		X													
<i>Euphorbia lactea</i>																				
<i>Euphorbia mercurialina</i>																				
<i>Euphorbia tirucalli</i>																				
<i>Euryops chrysanthemoides</i>																				
<i>Eustachys distichophylla</i>																				
<i>Evolvulus alsinoides</i>																				
<i>Evolvulus glomeratus ssp. grandiflorus</i>																				
<i>Fagopyrum esculentum</i>																				
<i>Fatoua villosa</i>																				
<i>Ficus altissima</i>		X					X	X												
<i>Ficus bengalensis</i>							X	X												
<i>Ficus microcarpa</i>		X		X	X	X	X	X	X	X	X		X	X		X	X			
<i>Fimbristylis miliacea</i>																				

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<i>Fimbristylis schoenoides</i>										X										
<i>Flacourtia indica</i>					X		X	X												
<i>Flueggia virosa</i>																				
<i>Fumaria officinalis</i>																				
<i>Furcraea foetida</i>		X		X			X													
<i>Furcraea selloa</i>																				
<i>Gaillardia pulchella</i>																				
<i>Galinsoga quadriratiata</i>																				
<i>Galphimia gracilis</i>																				
<i>Gibasis pellucida</i>																				
<i>Gisekia pharnacioides</i>																				
<i>Glandularia pulchella</i>																				
<i>Gliricidia sepium</i>																				
<i>Glycine max</i>																				
<i>Glycosmis parviflora</i>							X													
<i>Gnaphalium luteoalbum</i>																				
<i>Gomphrena serrata</i>																				
<i>Grevillea robusta</i>																				
<i>Guajacum officinale</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Gynura aurantiaca</i>																				
<i>Habranthus tubispathus</i>																				
<i>Hackelochloa granularis</i>								X												
<i>Harpullia arborea</i>							X													
<i>Hedychium coronarium</i>																				
<i>Helianthus annuus</i>				X				X												
<i>Hemarthria altissima</i>																				
<i>Hemigraphis alternata</i>																				
<i>Hemigraphis reptans</i>																				
<i>Heteranthera limosa</i>																				
<i>Heteropteris beecheyana</i>							X													
<i>Hibiscus acetosella</i>										X										
<i>Hibiscus cannabinus</i>																				
<i>Hibiscus radiatus</i>																				
<i>Hibiscus rosa-sinensis</i> var. <i>rosa-sinensis</i>				X																
<i>Hibiscus rosa-sinensis</i> var. <i>schizopetalus</i>																				
<i>Hibiscus tiliaceus</i>				X	X		X													
<i>Hieracium aurantiacum</i>																				

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<i>Hippobroma longiflora</i>																				
<i>Holmskioldia sanguinea</i>																				
<i>Hura crepitans</i>																				
<i>Hydrilla verticillata</i>				X											X		X	X		
<i>Hydrocleys nymphoides</i>																				
<i>Hydrolea spinosa</i>															X					
<i>Hygrophila corymbosa</i>																				
<i>Hygrophila polysperma</i>																				
<i>Hylocereus undatus</i>		X			X	X	X		X											
<i>Hymenachne amplexicaulis</i>															X		X			
<i>Hyparrhenia rufa</i>																				
<i>Hyptis mutabilis</i>																				
<i>Hyptis pectinata</i>																				
<i>Hyptis spicigera</i>																				
<i>Hyptis verticillata</i>						X														
<i>Impatiens wallerana</i>																				
<i>Imperata cylindrica</i>	X	X																		
<i>Indigofera colutea</i>																				
<i>Indigofera hirsuta</i>								X	X	X										

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<i>Indigofera pilosa</i>																				
<i>Indigofera spicata</i>								X												
<i>Indigofera suffruticosa</i>				X				X												
<i>Indigofera tinctoria</i>																				
<i>Ipomoea aquatica</i>																				
<i>Ipomoea asarifolia</i>																				
<i>Ipomoea batatas</i>																				
<i>Ipomoea cairica</i>																				
<i>Ipomoea carnea ssp. fistulosa</i>																				
<i>Ipomoea lacunosa</i>																				
<i>Ipomoea macrorrhiza</i>																				
<i>Ipomoea quamoclit</i>																				
<i>Ipomoea triloba</i>								X												
<i>Ipomoea turbinata</i>																				
<i>Ixora coccinea</i>																				
<i>Ixora parviflora</i>							X													
<i>Jacaranda mimosifolia</i>							X													
<i>Jacquinia arborea</i>																				
<i>Jacquinia macrocarpa</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Jasminum dichotomum</i>							X	X												
<i>Jasminum fluminense</i>							X	X												
<i>Jasminum mesnyi</i>																				
<i>Jasminum multiflorum</i>																				
<i>Jasminum nitidum</i>																				
<i>Jasminum officinale</i>																				
<i>Jasminum sambac</i>																				
<i>Jatropha curcas</i>						X														
<i>Jatropha gossypifolia</i>																				
<i>Jatropha integerrima</i>																				
<i>Jatropha multifida</i>																				
<i>Justicia brandegeana</i>																				
<i>Justicia pectoralis</i>																				
<i>Kalanchoe delagoensis</i>		X		X		X	X		X											
<i>Kalanchoe fedtschenkoi</i>																				
<i>Kalanchoe gastronis-bonnierei</i>																				
<i>Kalanchoe laciniata</i>																				
<i>Kalanchoe pinnata</i>		X				X	X													
<i>Kalanchoe tubiflora</i>		X				X	X		X											

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Koelreutaria elegans ssp. formosana</i>																				
<i>Kummerowia striata</i>																				
<i>Kyllinga squamulata</i>																				
<i>Lablab purpureus</i>																				
<i>Lagenaria siceraria</i>																				
<i>Lagerstroemia indica</i>																				
<i>Lamium amplexicaule</i>																				
<i>Lantana camara</i>	X	X		X	X	X	X	X	X	X				X	X					
<i>Lantana montevidensis</i>																				
<i>Launaea intybacea</i>																				
<i>Leonotis nepetifolia</i>																				
<i>Lepianthes umbellata</i>							X													
<i>Lespedeza hirta</i>																				
<i>Leucaena leucocephala</i>				X	X		X	X												
<i>Ligustrum sinense</i>																				
<i>Limnophila sessiliflora</i>																	X			
<i>Lindernia crustacea</i>																				
<i>Linum usitatissimum</i>																				
<i>Lipocarpa aristulata</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Lippia alba</i>																				
<i>Livistona chinensis</i>						X	X													
<i>Lobularia maritima</i>																				
<i>Lolium perenne</i>																				
<i>Lonchocarpus punctatus</i>																				
<i>Lonicera japonica</i>																				
<i>Luffa cylindrica</i>																				
<i>Lycopersicon esculentum</i>																				
<i>Lygodium japonicum</i>						X												X		
<i>Lygodium microphyllum</i>											X						X	X		
<i>Lysiloma sabicu</i>								X												
<i>Macfadyena unguis-cati</i>						X	X	X												
<i>Macroptilium atropurpureum</i>																				
<i>Macroptilium lathyroides</i>				X				X												
<i>Macrothelypteris torresiana</i>						X	X													
<i>Malachra capitata</i>																				
<i>Malpighia emarginata</i>																				
<i>Malvastrum coromandelianum</i>																				
<i>Malvaviscus arboreus var. drummondii</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Malvaviscus penduliflorus</i>																				
<i>Mangifera indica</i>		X			X	X	X										X			
<i>Manihot esculenta</i>																				
<i>Manihot grahamii</i>																				
<i>Manilkara roxburghiana</i>																				
<i>Manilkara zapota</i>							X													
<i>Marsilea macropoda</i>																				
<i>Maurandya antirrhiniflora</i>																				
<i>Mazus pumilus</i>																				
<i>Medicago lupulina</i>																				
<i>Medicago sativa</i>																				
<i>Melaleuca quinquenervia</i>						X				X	X			X	X		X	X		
<i>Meleleuca linariifolia</i>																				
<i>Melia azedarach</i>																	X			
<i>Melicoccus bijugatus</i>							X													
<i>Melilotus albus</i>																				
<i>Melilotus indicus</i>																				
<i>Melinis minutiflora</i>								X		X										
<i>Melochia corchorifolia</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Merremia aegyptia</i>																				
<i>Merremia cissoides</i>																				
<i>Merremia quinquefolia</i>																				
<i>Merremia tuberosa</i>							X													
<i>Merremia umbellata</i>																				
<i>Mimosa pigra</i>															X		X			
<i>Mimosa pudica</i>								X												
<i>Mirabilis jalapa</i>				X																
<i>Mitracarpus hirtus</i>																				
<i>Mollugo verticillata</i>																				
<i>Momordica balsamina</i>																				
<i>Momordica charantia</i>						X	X	X												
<i>Monstera deliciosa</i>																				
<i>Morinda citrifolia</i>				X																
<i>Moringa oleifera</i>																				
<i>Morrenia odorata</i>																				
<i>Morus alba</i>																				
<i>Mucuna pruriens</i>							X	X												
<i>Muntingia calabura</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Murdannia nudiflora</i>																				
<i>Murdannia spirata</i>																				
<i>Murraya paniculata</i>						X	X													
<i>Musa acuminata</i>																				
<i>Musa x paradisiaca</i>																				
<i>Myriophyllum aquaticum</i>																				
<i>Najas marina</i>																				
<i>Nelumbo nucifera</i>																				
<i>Nephrolepis cordifolia</i>						X	X										X	X		
<i>Nephrolepis falcata f. furcans</i>																				
<i>Nephrolepis hirsutula cv. Superba</i>							X													
<i>Nephrolepis multiflora</i>						X	X	X									X	X		
<i>Nerium oleander</i>																				
<i>Neyraudia reynaudiana</i>				X	X	X	X	X						X	X					
<i>Nicandra physalodes</i>																				
<i>Nicotiana plumbaginifolia</i>																				
<i>Nicotiana tabacum</i>																				
<i>Noronhia emarginata</i>							X													

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Nymphaea capensis</i> var. <i>zanzibarensis</i>																				
<i>Nymphaea lotus</i>																				
<i>Nymphaea x daubenana</i>																				
<i>Ochrosia elliptica</i>					X		X													
<i>Ocimum basilicum</i>																				
<i>Odontonema tubiforme</i>																				
<i>Oeceoclades maculata</i>						X	X													
<i>Oenothera drummondii</i>				X																
<i>Oenothera speciosa</i>																				
<i>Onosmodium virginianum</i>																				
<i>Opizia stolonifera</i>																				
<i>Opuntia cochenillifera</i>																				
<i>Opuntia pusilla</i>																				
<i>Opuntia vulgaris</i>																				
<i>Oryza rufipogon</i>															X					
<i>Oxalis debilis</i> var. <i>corymbosa</i>																				
<i>Oxalis latifolia</i>																				
<i>Pachyrhizus erosus</i>								X												

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Paederia cruddasiana</i> ssp. <i>cruddasiana</i>							X	X												
<i>Paederia foetida</i>	X					X														
<i>Pandanus baptistii</i>																			X	
<i>Panicum maximum</i>		X		X	X	X	X	X	X	X				X	X					
<i>Panicum miliaceum</i>																				
<i>Panicum repens</i>		X		X					X	X	X									
<i>Parkinsonia aculeata</i>																				
<i>Parthenium hysterophorus</i>								X												
<i>Paspalum acuminatum</i>																				
<i>Paspalum dilatatum</i>																				
<i>Paspalum fimbriatum</i>																				
<i>Paspalum nicorae</i>																				
<i>Paspalum notatum</i>										X										
<i>Paspalum urvillei</i>																				
<i>Passiflora biflora</i>								X												
<i>Passiflora edulis</i>							X													
<i>Passiflora foetida</i>								X												
<i>Passiflora x pfordtii</i>																				
<i>Pectis humifusa</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Peltophorum dubia</i>																				
<i>Peltophorum pterocarpum</i>																				
<i>Pennisetum glaucum</i>																				
<i>Pennisetum pedicellatum</i>																				
<i>Pennisetum polystachion</i>																				
<i>Pennisetum purpureum</i>				X	X	X	X	X	X											
<i>Pennisetum setaceum</i>																				
<i>Peperomia pellucida</i>																				
<i>Pereskia aculeata</i>																				
<i>Pereskia grandiflora</i>																				
<i>Persea americana</i>						X	X													
<i>Petita domingensis</i>								X												
<i>Petrea volubilis</i>																				
<i>Petunia x hybrida</i>																				
<i>Phalaris minor</i>																				
<i>Phaseolus lunatus</i>																				
<i>Phaseolus vulgaris</i>																				
<i>Phleum pratense</i>																				
<i>Phlox drummondii</i>																				

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<i>Phoenix canariensis</i>																				
<i>Phoenix dactylifera</i>																				
<i>Phoenix reclinata</i>						X	X													
<i>Phyla strigulosa</i>																				
<i>Phyllanthus acidus</i>																				
<i>Phyllanthus angustifolius</i>																				
<i>Phyllanthus tenellus</i>				X	X	X	X	X												
<i>Phyllanthus urinaria</i>																				
<i>Phymatosorus scolopendria</i>																				
<i>Pilea nummulariifolia</i>																				
<i>Pimenta dioica</i>							X													
<i>Piper aduncum</i>							X													
<i>Piper auritum</i>																				
<i>Pistia stratiotes</i>															X		X	X		
<i>Pithecellobium dulce</i>				X	X		X													
<i>Pithecellobium gracilliflorum</i>																				
<i>Pithecoctenium crucigenum</i>							X													
<i>Pittosporum pentandrum</i>							X	X												
<i>Plantago lanceolata</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Plantago major</i>																				
<i>Platanus orientalis</i>																				
<i>Plumbago auriculata</i>		X																		
<i>Poa annua</i>																				
<i>Polycarpha corymbosa</i>		X																		
<i>Polygonum aviculare</i>																				
<i>Polygonum lapathifolium</i>																				
<i>Polygonum persicaria</i>																				
<i>Polypogon monspeliensis</i>																				
<i>Pongamia pinnata</i>						X	X	X												
<i>Porana paniculata</i>																				
<i>Portulaca amilis</i>																				
<i>Portulaca grandiflora</i>																				
<i>Portulaca oleracea</i>																				
<i>Potentilla reptans</i>																				
<i>Pouteria campechiana</i>							X													
<i>Pouzolzia zeylanica</i>																	X			
<i>Premna odorata</i>							X	X												
<i>Proboscidea louisianica</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Pseudelephantopus spicatus</i>																				
<i>Pseuderanthemum fasciculatum</i>																				
<i>Pseudogynoxys chenopodioides</i>																				
<i>Psidium cattleianum</i>						X	X										X			
<i>Psidium guajava</i>		X				X	X	X	X	X				X	X		X			
<i>Psychotria punctata</i>							X													
<i>Pteris cretica var. albolineata</i>							X													
<i>Pteris grandifolia</i>																				
<i>Pteris multifida</i>																				
<i>Pteris plumula</i>																				
<i>Pteris tripartita</i>						X	X													
<i>Pteris vittata</i>						X	X	X						X	X					
<i>Ptychosperma elegans</i>						X	X													
<i>Pueraria montana var. lobata</i>								X												
<i>Pyrostegia venusta</i>																				
<i>Raphanus raphanistrum</i>																				
<i>Raphanus sativus</i>																				
<i>Rauvolfia tetraphylla</i>																				

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<i>Rhodomyrtus tomentosus</i>										X										
<i>Rhynchelytrum repens</i>		X		X				X	X	X										
<i>Richardia brasiliensis</i>																				
<i>Richardia grandiflora</i>								X												
<i>Richardia scabra</i>																				
<i>Ricinus communis</i>				X	X	X	X	X												
<i>Rorippa nasturtium-aquaticum</i>																				
<i>Rosa laevigata</i>										X							X			
<i>Rosa wichuriana</i>																				
<i>Rottboellia cochinchinensis</i>		X				X	X	X	X											
<i>Roystonea regia</i>							X													
<i>Rubus niveus</i>							X													
<i>Ruellia brittoniana</i>						X														
<i>Ruellia ciliatiflora</i>																				
<i>Ruellia malacosperma</i>																				
<i>Rumex crispus</i>																				
<i>Rumex obovatus</i>																				
<i>Rumex obtusifolius</i>																				
<i>Rumex pulcher</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Rumohra adiantiformis</i>																				
<i>Russelia equisetiformis</i>																				
<i>Saccharum officinarum</i>																				
<i>Saccharum ravennae</i>																				
<i>Sacciolepis indica</i>										X	X									
<i>Salix babylonica</i>																				
<i>Salpichroa organifolia</i>																				
<i>Sansevieria hyacinthoides</i>		X		X	X	X	X													
<i>Sansevieria metallica</i>																				
<i>Santalum album</i>																				
<i>Sapium sebiferum</i>										X					X	X	X	X		
<i>Scaevola sericea var. sericea</i>				X																
<i>Scaevola sericea var. taccada</i>				X																
<i>Schefflera actinophylla</i>		X		X	X	X	X	X	X	X				X	X		X			
<i>Schefflera arboricola</i>																				
<i>Schinus terebinthifolius</i>	X	X		X	X	X	X	X	X	X	X	X		X	X		X	X	X	X
<i>Scleria lacustris</i>																				
<i>Scutellaria racemosa</i>																				
<i>Secale cereale</i>																				

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<i>Selaginella uncinata</i>																				
<i>Selaginella willdenovii</i>							X													
<i>Selenicereus coniflorus</i>																				
<i>Selenicereus pteranthus</i>		X																		
<i>Senna alata</i>																				
<i>Senna corymbosa</i>																				
<i>Senna didymobotrya</i>																				
<i>Senna occidentalis</i>																				
<i>Senna pendula var. glabrata</i>				X	X		X										X	X		
<i>Senna surattensis</i>																				
<i>Sesamum orientale</i>																				
<i>Sesbania grandiflora</i>																				
<i>Sesbania punicea</i>																				
<i>Sesbania sericea</i>																				
<i>Setaria barbata</i>																				
<i>Setaria faberi</i>																				
<i>Setaria pumila</i>																				
<i>Setaria rariflora</i>																				
<i>Setaria setosa</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Setaria sphacelata</i>														X	X					
<i>Setaria verticillata</i>																				
<i>Setaria viridis</i>																				
<i>Severina monophylla</i>						X														
<i>Sida cordifolia</i>		X							X											
<i>Sida glabra</i>																				
<i>Sida spinosa</i>							X													
<i>Sinapis arvensis</i>																				
<i>Sisymbrium altissimum</i>																				
<i>Sisymbrium irio</i>																				
<i>Sisyrinchium rosulatum</i>																				
<i>Solanum diphyllum</i>					X	X	X										X			
<i>Solanum elaeagnifolium</i>																				
<i>Solanum jamaicense</i>																				
<i>Solanum melongena</i>																				
<i>Solanum seforthianum</i>							X													
<i>Solanum sisymbriifolium</i>																				
<i>Solanum tampicense</i>																	X	X		
<i>Solanum torvum</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Solanum viarum</i>		X				X			X	X										
<i>Soliva sessilis</i>																				
<i>Sonchus asper</i>							X													
<i>Sonchus oleraceus</i>							X	X												
<i>Sorghum arundinaceum</i>																				
<i>Sorghum bicolor</i>																				
<i>Sorghum halepense</i>																				
<i>Sorindeia madagascariensis</i>							X													
<i>Spathodea campanulata</i>						X	X													
<i>Spermacoce verticillata</i>								X												
<i>Sphenoclea zeylanica</i>																				
<i>Spiranthes sinensis</i>				X																
<i>Spirodela punctata</i>															X		X			
<i>Spondias purpurea</i>																				
<i>Sporobolus indicus</i> var. <i>indicus</i>						X														
<i>Sporobolus indicus</i> var. <i>pyramidalis</i>				X				X		X										
<i>Sporobolus tenuissimus</i>																				
<i>Stachytarpheta urticifolia</i>																				

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<i>Stellaria media</i>																				
<i>Stemodia durantifolia</i>																				
<i>Stictocardia tiliifolia</i>																				
<i>Striga gesnerioides</i>																				
<i>Strychnos spinosa</i>							X													
<i>Syagrus romanzoffiana</i>						X	X													
<i>Synedrella nodiflora</i>																				
<i>Syngonium angustatum</i>							X													
<i>Syngonium podophyllum</i>						X	X										X			
<i>Syzygium cumini</i>						X	X										X			
<i>Syzygium jambos</i>							X													
<i>Tabebuia aurea</i>								X												
<i>Tabebuia heterophylla</i>							X	X												
<i>Tabernaemontana alba</i>																				
<i>Tagetes erecta</i>																				
<i>Tamarindus indica</i>							X													
<i>Taraxacum laevigatum</i>																				
<i>Taraxacum officinale</i>																				
<i>Tecoma capensis</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Tecoma castanifolia</i>																				
<i>Tecoma stans</i>							X	X												
<i>Terminalia arjuna</i>																				
<i>Terminalia catappa</i>				X	X	X	X	X												
<i>Terminalia muelleri</i>																				
<i>Thelypteris dentata</i>						X	X										X			
<i>Thelypteris opulenta</i>							X													
<i>Thespesia populnea</i>				X	X		X													
<i>Thlaspi arvense</i>																				
<i>Thunbergia alata</i>																				
<i>Thunbergia erecta</i>																				
<i>Thunbergia fragrans</i>							X													
<i>Thunbergia grandiflora</i>							X													
<i>Thymophylla tenuiloba</i>																				
<i>Tithonia diversifolia</i>																				
<i>Torenia fournieri</i>																				
<i>Trachelospermum jasminoides</i>																				
<i>Tradescantia fluminense</i>																				
<i>Tradescantia pallida</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Tradescantia spathacea</i>							X													
<i>Tradescantia zebrina</i>																				
<i>Trema guineensis</i>																				
<i>Tribulus cistoides</i>																				
<i>Tribulus terrestris</i>																				
<i>Trichilia hirta</i>																				
<i>Tridax procumbens</i>								X												
<i>Trifolium arvense</i>																				
<i>Trifolium hybridum</i>																				
<i>Trifolium pratense</i>																				
<i>Trifolium repens</i>																				
<i>Trifolium resupinatum</i>																				
<i>Trigonella caerulea</i>																				
<i>Trimezia martinicensis</i>																				
<i>Triphasia trifolia</i>							X													
<i>Triumfetta pentandra</i>																				
<i>Triumfetta rhomboidea</i>																				
<i>Triumfetta semitriloba</i>						X	X													
<i>Turnera ulmifolia</i>								X												

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Ulmus parvifolia</i>																				
<i>Urochloa arrecta</i>																				
<i>Urochloa fasciculata</i> var. <i>reticulata</i>																				
<i>Urochloa mutica</i>								X						X	X					
<i>Urochloa piligera</i>																				
<i>Urochloa plantaginea</i>																				
<i>Urochloa ramosa</i>																				
<i>Urochloa subquadripara</i>							X													
<i>Urochloa texana</i>																				
<i>Vaccaria hispanica</i>																				
<i>Vanilla mexicana</i> , sensu <i>Wunderlin et. al. 1995</i>							X													
<i>Verbascum blattaria</i>																				
<i>Verbascum virgatum</i>																				
<i>Verbena bonariensis</i>																				
<i>Verbena brasiliensis</i>																				
<i>Verbena litoralis</i>																				
<i>Verbesina encelioides</i>																				
<i>Vernonia cinerea</i>								X												

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Vigna adenantha</i>																				
<i>Vigna hosei</i>																				
<i>Vigna speciosa</i>																				
<i>Vigna unguiculata</i>																				
<i>Vitex agnus-castus</i>																				
<i>Vitex glabrata</i>																				
<i>Vitex trifolia</i> var. <i>trifolia</i>																				
<i>Vitex trifolia</i> var. <i>variegata</i>																				
<i>Wahlenbergia marginata</i>																				
<i>Washingtonia robusta</i>																				X
<i>Wedelia trilobata</i>				X		X	X	X												
<i>Woodwardia radicans</i>																				
<i>Xanthosoma sagittifolium</i>																				
<i>Xyris jupicai</i>										X	X									
<i>Youngia japonica</i>						X	X	X									X	X		
<i>Yucca aloifolia</i>				X	X		X													
<i>Zamia furfuracea</i>					X			X												
<i>Zea mays</i> ssp. <i>mays</i>																				
<i>Zea mays</i> ssp. <i>mexicana</i>																				

Species	High Pine	Scrub	Scrubby high pine	Beach dune/ Coastal strand	Maritime hammock	Mesic temperate hammock	Tropical hardwood	Pine rocklands	Scrubby flatwoods	Mesic pine flatwoods	Hydric pine flatwoods	Dry prairie	Cutthroat grass	Wet prairie	Freshwater marsh	Seepage swamp	Flowing water swamp	Pond swamp	Mangrove	Salt marsh
<i>Zea mays ssp. parviglumis</i>																				
<i>Zephyranthes citrina</i>																				
<i>Zeuxine strateumatica</i>																				
<i>Zinnia violacea</i>																				
<i>Ziziphus mauritiana</i>							X													
<i>Zoysia japonica</i>																				
<i>Zoysia matrella</i>																				
<i>Zoysia tenuifolia</i>																				

Appendix F. Federal, State, and Private Conservation Lands in South Florida.

Existing Conservation Lands¹ - Federal	Agency	County	Hectares
Big Cypress Seminole Indian Reservation	BIA	Hendry	21,181
Brighton Seminole Indian Reservation	BIA	Glades	14,487
Miccosukee Indian Reservation	BIA	Hendry	108,298
Avon Park Air Force Range	DOD	Highlands	44,560
Arthur R. Marshall Loxahatchee NWR	FWS	Palm Beach	59,640
<i>Hobe Sound NWR</i>	FWS	Martin	391
Florida Panther NWR	FWS	Collier	10,684
<i>Ten Thousand Islands NWR</i>	FWS	Collier	7,952
J.N. "Ding" Darling NWR	FWS	Lee	2,550
<i>Caloosahatchee NWR</i>	FWS	Lee	16
<i>Island Bay NWR</i>	FWS	Lee	8
<i>Matlacha Pass NWR</i>	FWS	Lee	207
<i>Pine Island NWR</i>	FWS	Lee	222
Merrit Island NWR ²	FWS	Brevard	
<i>Archie Carr NWR</i>	FWS	Brevard, Indian River	486
<i>Lake Wales Ridge NWR</i>	FWS	Highlands, Polk	7,944
<i>Pelican Island NWR</i>	FWS	Indian River	2,024
National Key Deer Refuge	FWS	Monroe	3,299
<i>Crocodile Lake NWR</i>	FWS	Monroe	2,752
<i>Great White Heron NWR (excluding water)</i>	FWS	Monroe	2,998
<i>Key West NWR (excluding water)</i>	FWS	Monroe	817
Florida Keys National Marine Sanctuary	NOAA	Monroe	961,718
Big Cypress National Preserve	NPS	Collier, Monroe	294,622
Biscayne Bay National Park (including water)	NPS	Monroe	73,453
Dry Tortugas National Park (including water)	NPS	Monroe	26,184
Everglades National Park (including water)	NPS	Miami-Dade	609,681
<i>East Everglades</i>	NPS	Miami-Dade	44,252
SUBTOTAL			2,300,426

¹Existing conservation lands are projects that are 50 to 100 percent complete and have active resource management programs.

² Merritt Island National Wildlife Refuge is located in the North Florida Ecosystem but administers satellite refuges in the South Florida Ecosystem.

Existing Conservation Lands - State	Agency	County	Hectares
Avalon State Recreation Area	DEP	St. Lucie	262
Bahia Honda State Park	DEP	Monroe	212
Belle Meade	DEP, DOF	Collier	7,781
Bill Baggs Cape Florida State Recreation Area	DEP	Miami-Dade	306
Catfish Creek	DEP, SFWMD	Polk	2,600
Cayo Costa Island	DEP	Lee	782
Cayo Costa State Park	DEP	Lee	951
Charlotte Harbor	DEP	Charlotte	10,341
Collier-Seminole State Park	DEP	Collier	2,605
Curry Hammock State Park	DEP	Monroe	493
Delnor-Wiggins Pass State Recreation Area	DEP	Collier	63
Don Pedro Island State Recreation Area	DEP	Charlotte	54
Fakahatchee Strand State Preserve	DEP	Collier	30,099
Fort Pierce Inlet State Recreation Area	DEP	St. Lucie	527
Fort Zachary Taylor State Historic Site	DEP	Monroe	21
Gasparilla Island State Recreation Area	DEP	Lee	58
Highlands Hammock State Park	DEP	Highlands	1,930
Hugh Taylor Birch State Recreation Area	DEP	Broward	73
Indian Key State Historic Site	DEP	Monroe	47
John U. Lloyd Beach State Recreation Area	DEP	Broward	102
John D. MacArthur Beach State Park	DEP	Palm Beach	91
John Pennekamp Coral Reef State Park	DEP	Monroe	22,711
Jonathan Dickinson State Park	DEP	Martin, Palm Beach	4,684
Juno Hills	DEP	Palm Beach	178
Key Largo Hammock State Botanical Site	DEP	Monroe	934
Kissimmee Prairie State Park	DEP, SFWMD	Okeechobee	18,467
Koreshan State Historical Site	DEP	Lee	63
Lake Arbuckle State Park	DEP	Polk	1,138
Lake June Scrub State Park	DEP	Highlands	342
Lake Kissimmee State Park	DEP	Polk	2,358
Lignumvitae Key State Botanical Site	DEP	Monroe	4,592
Long Key State Recreation Area	DEP	Monroe	391
Lovers Key State Recreation Area	DEP	Lee	288
Mound Key State Archaeological Site	DEP	Lee	60
Myakka Estuary	DEP	Charlotte, Sarasota	5,585
Myakka River State Park	DEP	Manatee, Sarasota	15,024
North Key Largo Hammocks	DEP	Monroe	1,301
Oleta River State Recreation Area	DEP	Miami-Dade	410
Oscar Scherer State Park	DEP	Sarasota	557
Paynes Creek State Historic Site	DEP	Hardee	159
Port Charlotte Beach State Recreation Area	DEP	Charlotte	86
Rookery Bay	DEP	Collier	7,500
Rotenberger/Seminole Indian Lands	DEP	Broward, Palm Beach	16,082
San Pedro State Underwater Archaeological Preserve	DEP	Monroe	29
Savannas State Preserve	DEP, SFWMD	Martin, St. Lucie	2,388
Seabranh State Preserve	DEP	Martin	372

State Conservation Lands <i>cont.</i>	Agency	County	Hectares
Sebastian Creek	DEP	Brevard, Indian River	9,103
Sebastian Inlet State Recreation Area	DEP	Brevard, Indian River	306
South Savannas	DEP	Martin, St. Lucie	2,447
St. Lucie Inlet State Preserve	DEP	Martin	1,873
The Barnacle State Historic Site	DEP	Miami-Dade	5
Windley Key Fossil Reef State Geological Site	DEP	Monroe	11
Yamato Scrub	DEP	Palm Beach	100
DuPuis Reserve State Forest	DOF, GFC	Martin, Palm Beach	8,877
Lake Arbuckle State Forest	DOF	Polk	4,329
Arbuckle Wildlife Management Area	GFC	Polk	5,463
Brown's Farm Wildlife Management Area	GFC	Palm Beach	1,805
Babcock/Webb Wildlife Management Area	GFC	Charlotte	26,617
Holey Land Wildlife Management Area	GFC	Palm Beach	14,306
IMC Wildlife Management Area	GFC	Polk	291
J.W. Corbett Wildlife Management Area	GFC	Palm Beach	24,373
Lake Harbor Public Waterfowl Area	GFC	Palm Beach	256
Rotenberger Wildlife Management Area	GFC	Palm Beach	11,255
Thomas Goodwin Waterfowl Management Area	GFC	Indian River	1,567
Three Lakes Wildlife Management Area	GFC	Osceola	20,394
<i>Prairie Lakes Unit</i>	GFC	Osceola	3,682
Big Pine Key	SFWMD	Monroe	76
DuPuis Reserve	SFWMD	Martin, Palm Beach	8,853
Frog Pond/L31N	SFWMD, GFC	Miami-Dade	4,290
Johnson Ranch	SFWMD	Highlands	665
Kissimmee Prairie Ecosystem	SFWMD	Okeechobee	18,467
Kissimmee River (Lower Basin)	SFWMD, GFC	Okeechobee, Osceola, Polk	25,346
Kissimmee River (Upper Basin)	SFWMD, GFC	Okeechobee, Osceola, Polk	12,803
Loxahatchee River	SFWMD	Martin, Palm Beach	783
Nicodemus Slough	SFWMD	Glades	898
Okaloacoochee Slough	SFWMD, DEP	Collier, Hendry	12,837
South Fork St. Lucie	SFWMD	Martin	74
Southern Glades	SFWMD, GFC	Miami-Dade	15,225
Stairstep Mitigation Area	SFWMD	Lee	256
Stormwater Treatment Areas	SFWMD	Palm Beach	19,276
Strazulla	SFWMD	Palm Beach	496
Water Conservation Areas	SFWMD	Broward, Miami-Dade, Palm Beach	41,941
Ringling MacArthur	SFWMD	Sarasota	3,338
RV Griffin Reserve (GDC)	SFWMD	DeSoto	2,610
Upper Hillsborough	SFWMD	Polk	143
SUBTOTAL			470,534

Existing Conservation Lands - Private	Organization	County	Hectares
Archbold Biological Station	Archbold	Highlands	2,005
Corkscrew Swamp Sanctuary	NAS	Collier, Lee	4,274
Kissimmee Prairie Sanctuary	NAS	Okeechobee	3,246
A.D. Broussard Memorial Catfish Creek Preserve	TNC	Polk	490
Big Pine Key	TNC	Monroe	17
Big Torch Key	TNC	Monroe	<1
Blowing Rocks Preserve	TNC	Martin	31
Budd Key	TNC	Monroe	2
Buttonwood Key	TNC	Monroe	<1
Carter Creek	TNC	Highlands	<1
Cross Key	TNC	Monroe	50
Disney Wilderness Preserve	TNC	Multiple	3,616
Hobe Sound Sandhill	TNC	Martin	23
Holmes Avenue Scrub	TNC	Highlands	4
James E. Cook Memorial Preserve	TNC	Charlotte	14
Lamar Louise Curry Preserve	TNC	Monroe	3
Little Pine Island: Osborn Tract	TNC	Lee	92
Little Torch Key: Torchwood Hammock	TNC	Monroe	98
Moya Sanctuary	TNC	Glades	49
Rookery Bay	TNC	Collier	23
Saddle Blanket Lakes Preserve	TNC	Polk	260
Sea Oats Beach	TNC	Monroe	<1
Sun Ray Scrub	TNC	Polk	4
Tiger Creek Preserve	TNC	Polk	1,934
Tropical Flyways: Grassy Key	TNC	Monroe	<1
Venus Flatwoods Preserve	TNC	Highlands	40
V.H. and Meta Osborn Wildlife Sanctuary	TNC	Lee	455
Walk-in-the-Water Creek Nature Reserve	TNC	Polk	10
SUBTOTAL			16,740

Active Acquisition Projects³ - State	Agency	County	Hectares
Archie Carr Sea Turtle Refuge	DEP	Brevard, Indian River	412
Charlotte Harbor Flatwoods	DEP	Charlotte, Lee	7,571
Coupon Bight/Key Deer	DEP	Monroe	739
CREW	DEP, SFWMD	Collier, Lee	23,881
Dade County Archipelago	DEP	Miami-Dade	414
East Everglades	DEP	Broward, Miami-Dade	84,397
Estero Bay	DEP	Lee	6,388
Florida Keys Ecosystem	DEP	Monroe	1,796
Lake Wales Ridge Ecosystem	DEP	Highlands, Osceola, Polk	8,802
(less-than-fee)	DEP	Polk	974
(multi-parcel)	DEP	Highlands	7,685
North Fork St. Lucie River	DEP, SFWMD	St. Lucie	1,161
Osceola Pine Savannas	DEP	Osceola	17,115
Ranch Reserve	DEP	Brevard, Osceola	14,286
Picayune Strand State Forest	DOF	Collier	22,339
East Coast Buffer	SFWMD	Broward, Miami-Dade, Palm Beach	28,686
Everglades Agricultural Area	SFWMD, DEP	Palm Beach	19,656
Model Lands Basin	SFWMD	Miami-Dade, Monroe	17,053
Pal-Mar	SFWMD, DEP	Martin, Palm Beach	14,341
Paradise Run	SFWMD	Glades, Okeechobee	1,722
Savannas	SFWMD	Martin, St. Lucie	2,388
Shingle Creek	SFWMD	Orange, Osceola	3,098
Six Mile Cypress	SFWMD	Lee	705
Upper Lakes Basin Watershed	SFWMD	Osceola, Polk	17,604
Bull Creek Wildlife Management Area	SJWMD, GFC	Osceola	8,987
Fort Drum Marsh	SJWMD, GFC	Indian River	8,441
Ranch Reserve (conservation easement)	SJWMD	Osceola	4,763
Triple N Ranch Wildlife Management Area	SJWMD, GFC	Osceola	3,625
Alston Tract	SFWMD	Polk	4,420
Green Swamp	SFWMD, DEP	Polk	67,041
Jack Creek	SFWMD	Highlands	1,051
Myakka River/Charlotte Harbor	SFWMD	Charlotte, Sarasota	14,779
SUBTOTAL			416,320

³Active acquisition projects are approved projects in which less than 50 percent of the land has been acquired.

Inactive Acquisition Projects⁴ - State	Agency	County	Hectares
Allapattah Flats	DEP, SFWMD	Martin	13,849
Atlantic Ridge Ecosystem	DEP, SFWMD	Martin	5,064
Bombing Range Ridge	DEP	Polk	23,068
Caloosahatchee Ecoscape	DEP	Glades, Hendry	5,350
Cape Haze/Charlotte Harbor	DEP	Charlotte	2,995
Hutchinson Island/Blind Creek	DEP	St. Lucie	142
Indian River Lagoon Blueway	DEP	Multiple	2,024
Jupiter Ridge Natural Area	DEP	Palm Beach	108
Pineland Site Complex	DEP	Lee	101
Upper Econ Mosaic	DEP	Orange, Osceola	12,332
Cypress Creek/Trail Ridge	SFWMD, DEP	St. Lucie	6,273
Fisheating Creek	SFWMD	Glades	17,755
Indian River Lagoon	SFWMD	St. Lucie	627
Lake Lizzie	SFWMD	Osceola	445
Lake Walk-in-Water	SFWMD	Polk	1,665
Loxahatchee Slough	SFWMD	Palm Beach	6,151
McDaniel Ranch	SFWMD	Hendry	2,833
North Savannas	SFWMD	St. Lucie	376
Parker-Poinciana	SFWMD	Osceola, Polk	797
Six Mile Cypress II	SFWMD	Lee	91
Ten Mile Creek	SFWMD	St. Lucie	512
Twelve Mile Slough	SFWMD	Hendry	1,336
Blue Cypress Conservation Area	SJWMD	Indian River	19,987
Oslo Riverfront Conservation Area	SJWMD	Indian River	121
Alafia River Corridor	SWFWMD	Polk	3,034
Bright Hour Watershed	SWFWMD	DeSoto	12,684
Charlie Creek System	SWFWMD	Highlands	4,990
Charlotte I (a.k.a. Hall Ranch)	SWFWMD, DEP	Charlotte	4,571
Charlotte Harbor Addition	SWFWMD	Charlotte	2,687
Fox Branch	SWFWMD	Polk	382
Horse Creek	SWFWMD	Hardee	4,428
Myakkahatchee Creek	SWFWMD	Sarasota	4,763
Myakka River	SWFWMD	Sarasota	885
Myakka River State Park Addition	SWFWMD	Sarasota	689
Peace Creek System	SWFWMD	Polk	14,772
Peace River Corridor	SWFWMD	DeSoto, Hardee	16,570
Prairie/Shell Creek	SWFWMD	Charlotte, DeSoto	3,758
Toledo Blade	SWFWMD	Sarasota	3,648
Upper Lake Marion Creek Watershed	SWFWMD	Polk	770
Upper Peace River Corridor	SWFWMD	Hardee, Polk	6,708
SUBTOTAL			209,349
TOTAL ALL CONSERVATION LANDS			3,413,369

¹ Existing conservation lands are projects that are 50 to 100 percent complete and have active resource management programs.

² Merritt Island National Wildlife Refuge is located in the North Florida Ecosystem but administers satellite refuges in the South Florida Ecosystem.

³ Active acquisition projects are approved projects in which less than 50 percent of the land has been acquired.

⁴ Inactive acquisition projects are formally designated projects where little, if any, land acquisition has occurred due to fiscal constraints, time constraints, landowner preference, or other factors.



Appendix G. Federal and State Agencies with Management and Restoration Responsibilities in South Florida.**FEDERAL AGENCIES**

UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)

Created by Congress in 1862 to acquire and disseminate “useful” information on subjects connected with agriculture in the most general and comprehensive sense of that word, and to procure, propagate, and distribute among the people new and valuable seeds and plants. Today, in addition to managing the national forests and grasslands, USDA manages a variety of research, regulatory, domestic and foreign marketing, food and nutrition, and many other programs.

Animal and Plant Health Inspection Service

Animal Damage Control - Provides operational and technical assistance to states, individuals, public and private organizations, and institutions in the resolution of human and wildlife conflicts deemed injurious to agriculture, horticulture, animal husbandry, human health and safety, forest and range resources, and wildlife. One example of their efforts involves controlling aggregations of migratory birds at Southwest Florida International Airport that are perceived as hazardous to air traffic.

Plant Protection and Quarantine - This USDA program regulates the importation of plants, plant products, and animal products from foreign countries. It regulates the movement of such products between U.S. possessions and the mainland and the importation and interstate movement of plant pests. Inspects and certifies plants and plant products for export. Administers cooperative programs with states to control and eradicate insects, diseases, weeds, and nematodes of economic importance. USDA Plant Protection and Quarantine personnel are responsible for regulating ornamental nursery stock that may have a detrimental effect on native plant species and ecosystems. Approval for release of the melalueca snout weevil was authorized through this bureau.

Regulatory Enforcement and Animal Care - Investigates and prosecutes violations of Federal laws governing the movement of animals and plants between states or into and out of the United States and regulates the humane care and treatment of warm-blooded animals used for purposes of research or exhibition, for sales as pets at the wholesale level, or transported in commerce. USDA Regulatory Enforcement and Animal Care personnel administer and monitor permits issued to facilities like Sea World to rehabilitate manatees.

Farm Service Agency

Administers the following nationwide or regional programs: Conservation Reserve Program, Emergency Conservation Program, Livestock Feed Program, and various commodity programs, including feed grains, wheat, cotton, rice, wool, *etc.*

Forest Service

Administers National Forests and National Grasslands and is responsible for the management of their resources. Cooperates with Federal and state officials in the enforcement of game laws on the National Forests and in the development and maintenance of wildlife resources; cooperates with the state and private owners in the application of sound forest management practices, in protection of forest lands against fire, insects, diseases, and in the distribution of planting stock. Conducts research in the entire field of forestry and wildland management.

Natural Resources Conservation Service (NRCS)

NRCS has national responsibility for helping America's farmers, ranchers, and other private landowners develop and carry out voluntary efforts to conserve and protect our natural resources. NRCS is the technical delivery arm for conservation programs of the USDA. It provides technical assistance and conservation programs through a unique partnership with America's soil and water conservation districts and state conservation agencies.

DEPARTMENT OF COMMERCE**National Oceanic and Atmospheric Administration (NOAA)**

NOAA was created within the Department of Commerce to promote global environmental stewardship and to describe and predict changes in the earth's environment. NOAA conducts oceanic and atmospheric research; maintains environmental databases and disseminates environmental information products; manages living marine resources and the marine environment; and operates environmental satellites, ships, aircraft, and buoys. NOAA provides the environmental information, science, technology, and resource management expertise necessary for our nation to build a future sustained by both environmental stewardship and economic growth.

National Marine Fisheries Service (NMFS) - A component of NOAA, NMFS provides management, research, and services for the protection and rational use of living marine resources for their aesthetic, economic, and recreational value. They have protected species responsibilities for sea turtles. NMFS also determines the consequences of the natural environment and human activities on living marine resources and provides knowledge and services to achieve efficient and judicious domestic and international management use, and conservation of the resources.

National Ocean Service (NOS) - A component of NOAA with a mission to serve as the nation's principal advocate for coastal and ocean stewardship. NOS sets the foundation for coastal and ocean science, management, response, restoration, and navigation. In South Florida, NOS manages the Florida Keys National Marine Sanctuary, and provides funding for the Rookery Bay National Estuarine Research Reserve and the Florida Coastal Zone Management Program.

DEPARTMENT OF DEFENSE

U.S. Air Force

A comprehensive natural resources conservation program focusing on fish and wildlife management, forestry, outdoor recreation, and soil and water conservation has been conducted on Air Force lands since the mid-1950s. Current policy requires all installations with significant land and water resources to develop integrated natural resource management plans as part of the base comprehensive planning process.

Department of the Army

The **U.S. Army Corps of Engineers (COE)** administers a program that regulates the discharge of dredged or fill material into waters of the United States (which include wetlands) under Section 404 of the Clean Water Act. Under the section 404 program, the COE reviews projects to ensure that authorizing the discharge of fill into waters of the United States is in the public interest. When an individual, agency, or organization wants to place fill into waters of the U.S. (including wetlands), they apply to the COE for a permit. Although there are some exceptions, the COE generally issues notices that are distributed for public review and comment, then determines if the project is in the public interest before issuing the permit.

It is COE policy to carry out its civil works missions in full compliance with the National Environmental Policy Act (NEPA) and with other Federal statutes and guidelines for environmental protection such as the Endangered Species Act. The Corps strives to maintain and create conditions under which the human and natural environments can exist in productive harmony and to preserve important historic and archeological resources.

DEPARTMENT OF THE INTERIOR

Bureau of Indian Affairs (BIA)

An agency charged with carrying out the major portion of the trust responsibility of the U.S. to Indian tribes. This trust includes the protection and enhancement of Indian lands and the conservation and development of natural resources, including fish, wildlife, and outdoor recreation resources. BIA provides financial assistance and other services to South Florida tribal members.

Bureau of Land Management (BLM)

Administers the public lands which are located primarily in the western states and which amount to about 48 percent (over 272 million acres) of all federally owned lands. These lands and resources are managed under multiple-use principles, including outdoor recreation, fish and wildlife production, livestock grazing, timber, industrial development, watershed protection, and onshore mineral production. BLM provides ecosystem management implementation support. The Wildlife, Fisheries, Rangelands, and Forestland Group assists states in implementing the BLM's Fish and Wildlife 2000 initiatives, coordinating achievement of objectives of the National Fish and Wildlife 2000 Strategic Plan components: anadromous fisheries and aquatic ecosystem monitoring, landscape ecosystem modeling and analysis, nongame (neotropical) migratory birds, watchable wildlife, and waterfowl/wetlands.

National Park Service (NPS)

Administers parks, monuments, and other administrative classifications of national significance for their recreational, historic, and natural values. Manages landmark programs for natural and historic values. Manages landmarks programs for natural and historic properties; coordinates Wild and Scenic Rivers System and National Trail System; administers study and grants programs.

U.S. Fish and Wildlife Service (FWS)

The FWS is the lead Federal agency in the conservation of the nation's migratory birds, threatened and endangered species, certain marine mammals, and interjurisdictional fisheries. This includes the management of national wildlife refuges and fish hatcheries; management of migratory birds through habitat conservation and hunting regulations; listing and recovery actions for endangered and threatened species; conservation and enhancement of wetlands; biological review of the environmental impacts of certain development projects; and enforcement of Federal wildlife laws such as the Endangered Species Act, the Lacey Act, the Marine Mammal Protection Act, and the Migratory Bird Treaty Act. The FWS administers fish and wildlife restoration and endangered species grant programs to state governments, provides technical assistance to state and foreign governments, participates on regional fishery management councils and commissions, serves as lead Federal agency in international conventions on wildlife conservation, and operates a program of public affairs and education to enhance the public's understanding and appreciation of America's fish and wildlife resources.

The FWS provides technical assistance to other Federal agencies to help them comply with the Fish and Wildlife Coordination Act and the Endangered Species Act. In the latter capacity, the FWS provides comments and recommendations to the COE when it reviews applications for permits to dredge or fill in waters of the United States (which includes wetlands). The FWS consults with all Federal agencies to ensure that their actions are not likely to jeopardize the continued existence of threatened or endangered species, or destroy or adversely modify designated critical habitat. The FWS has issued biological opinions on residential

housing, commercial construction, road construction, marinas, boat docks, and canal dredging projects throughout South Florida. Since 1982, the FWS has issued permits to “take” threatened or endangered species incidental to activities that are authorized by other laws. The FWS also has an innovative Private lands Program that seeks to partner with land owners to conserve fish and wildlife species.

U.S. Geological Survey (USGS)

This research agency of the Interior Department publishes and distributes maps and reports covering our nation’s physical features and mineral, fuel, and water resources. Responsibilities include activities in topographic mapping, geology, water, energy and mineral resources, and natural hazards. Personnel are stationed in Reston, Virginia, and at more than 300 field offices and two major regional centers in Denver, Colorado, and Menlo Park, California.

The **Biological Resources Division** -this division works with others to provide the scientific understanding and technologies needed to manage the nation’s biological resources.

DEPARTMENT OF TRANSPORTATION

This department is composed of: U.S. Coast Guard, Federal Aviation Administration, Federal Highway Administration, Federal Railroad Administration, Maritime Administration, St. Lawrence Seaway Development Corporation, National Highway Traffic Safety Administration, Federal Transit Administration, and Research and Special Programs Administration. The major objectives are to develop and improve a coordinated national transportation system consistent with other national objectives, such as environmental protection, and to stimulate technological advances in the industry, preserving the nation’s free enterprise transportation network.

Federal Highway Administration (FHWA)

FHWA is charged with carrying out the Department of Transportation responsibilities concerned with the highway mode of land transport. It has primary missions of ensuring that the Nation’s highway transportation system is safe, economic, and efficient with respect to the movement of people and goods, while giving full consideration to the highway’s impact on the environment and social and economic conditions.

STATE AGENCIES

FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES

Division of Agricultural Environmental Services

The Division of Agricultural Environmental Services administers various State and Federal regulatory programs concerning environmental issues that relate to

agriculture. These include mosquito control; pesticides; pest control; and feed, seed and fertilizer.

Division of Forestry

The Division of Forestry is responsible for the wildland fire protection of over 26 million acres of State and privately owned land located throughout Florida. There are 35 State forests covering more than 655,000 acres and another 488,000 acres of forest lands that the Division of Forestry helps other public agencies manage.

Division of Plant Industry

The Division of Plant Industry works to detect, intercept and control plant and honeybee pests that threaten Florida's agricultural and horticultural industries. Division efforts concentrate on the exclusion of exotic pests and the prevention of their spread through the regulation of plant and honeybee movement and through extensive survey programs designed for the early detection of new pests to mitigate the need for control activities.

FLORIDA DEPARTMENT OF COMMUNITY AFFAIRS

The Department of Community Affairs (DCA) is responsible for planning and regulating land use by approving local government comprehensive plans and land development regulations. Planning activities are integrated on the regional, State, and local level. The DCA also administers the Florida Land Management Act, which provides the statewide framework for comprehensive plans developed by counties. The South Florida Ecosystem encompasses all or part of five regional planning councils.

The DCA administers the Florida Coastal Management Program, which is structured as a network of State agencies that improves the effectiveness and efficiency of implementing existing laws and programs in the coastal zone. The DCA also administers the Areas of Critical State Concern (ACSC) program that identifies certain regions of the State for special protection based on perceived threats to significant natural resources and the need to protect public investments in facilities. (Refer to the management and Conservation section for a description of South Florida's ACSCs).

The governor and cabinet can designate an area by rule, setting the boundaries of an ACSC and the principles to be used for guiding development activities. Once an area is designated, affected local governments have 180 days to submit land development regulations consistent with the principles set forth in the rule. If the local government fails to submit regulations, or if its proposals are insufficient, the State land planning agency may propose development regulations for the governor's and cabinet's approval.

Regional Programs

In addition to DCA requirements, individual regional planning councils (RPCs) may have specific species or habitat criteria and requirements set forth in comprehensive regional policy plans. Some plans consider specific types of

plant communities worthy of protection regardless of the presence or absence of listed plants or animals. Local governments ultimately approve or deny the development order prepared by the regional planning council, and may require further wildlife or habitat preservation.

Florida's five water management districts (WMDs) have become much more involved in wetlands permitting in recent years. In many cases, the districts perform more stringent reviews than those performed by the DEP or the COE. As part of their management and storage of surface waters regulatory programs, the water management district's permitting authority includes consideration of the impact of regulated activities on both isolated and non-isolated wetlands.

Local Programs

Local governments derive much of their authority from their police powers, and from powers designated by the State. Many local governments have ordinances addressing the protection of rare and listed species. Many more are in the process of developing such ordinances in accordance with comprehensive plans. However, few local governments in the State have the staffing, resources, or inclination to address the cumulative impacts of land use on regional or statewide biological diversity.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

The Florida Department of Environmental Protection (DEP) provides policy directives to State agencies and regional and local governments. It also supervises regional water management districts, and delegates the authority to carry out programs to these water management districts, other State agencies, and local government agencies. To achieve these goals, the DEP conducts regulatory programs to control or prohibit air and water pollution and to clean up or restore polluted land and water resources. It also supports research on environmental issues, and provides educational and technical assistance to the public for preventing environmental damage.

Several divisions of the DEP have natural resource management responsibilities in the South Florida Ecosystem: (1) Recreation and Parks; (2) Marine Resources; (3) State Lands, which acquires and manages State properties; (4) Law Enforcement; (5) Beaches and Shores, which has regulatory jurisdiction for construction and excavation activities on sovereign lands seaward of the high-water line in any State tidal waters or within 50 feet of the mean high water line; (6) Water Management, which manages changes in State surface water quality standards, and processes applications for dredge-and-fill permits for projects with more than 10 acres of dredging or filling; (7) Waste Management, which attempts to improve point sources of discharges that affect water quality and underground storage tanks; and (8) Water Facilities.

Environmental Regulation Commission

The Florida Environmental Regulation Commission is the rule-making arm of the Department for rules that establish environmental standards such as the

department's water body classifications, and its air and water quality standards. The Commission's membership is composed of seven citizens of the State appointed by the Governor for 4-year terms, subject to confirmation by the Senate. Members are selected from within the boundaries of the five water management districts, with no more than two members from any one district. Membership is representative of the many diverse economic and social interests in the state.

The Marine Fisheries Commission

The Marine Fisheries Commission prepares and adopts all rules relating to marine life, with the exception of endangered species. Its rules are subject to final approval by the Governor and Cabinet. The Commission is composed of seven members appointed by the Governor and confirmed by the Senate. The Commission employs its own executive director and staff.

Office of Ecosystem Management

Ecosystem Planning and Coordination - This office coordinates development of department and statewide strategies for implementing ecosystem management. It evaluates the need for ecosystem research and monitoring, and develops cooperative projects with universities and institutions. It coordinates the department's implementation of the Everglades Forever Act and is the main point of contact for Everglades issues. It evaluates the effects of department programs and management activities on resources and their consistency with ecosystem management goals and objectives.

Water Policy/SWIM - This office communicates and coordinates with the five water management districts on water policy and issues related to regulatory and nonregulatory (Surface Water Improvement and Management) environmental protection programs. Existing SWIM management plans in South Florida include: Indian River Lagoon/St. Lucie River/Loxahatchee River, Biscayne Bay, Caloosahatchee River, and Charlotte Harbor.

Division of Law Enforcement

The Office of Enforcement Planning and Policy Coordination handles boating safety education, fisheries coordination, rule development and waterway permitting and outreach; the Office of Environmental and Resource Crimes Investigations handles both criminal and civil environmental enforcement to enhance the protection of State-owned land managed by the Department; and the Bureau of Emergency Response is responsible for responding to any emergency incidents such as oil spills and hazardous material leaks that present an imminent hazard or threat to public health, welfare, safety, or the environment.

Division of Air Resources Management

This Division administers the State's air pollution control program, which implements the Federal Clean Air Act, and issues permits for sources of air pollution. It develops air quality standards, and monitors air quality all in

conjunction with eight local approved programs. The Division has two bureaus and an Office of Policy Analysis and Program Management.

Division of State Lands

This Division acquires, disposes of, administers, manages, and maintains the records for land held by the Board of Trustees of the Internal Improvement Trust Fund (The Governor and Cabinet). Florida has one of the largest and most extensive environmental land acquisition programs in the country. More than \$300 million is appropriated each year to purchase environmentally sensitive lands through the Conservation and Recreation Lands and Preservation 2000 programs. Lands are also acquired, by the Division, on behalf of other State agencies for uses such as universities, correctional, health and social services programs. The Division has five bureaus: Bureau of Land Acquisition, Appraisal, Land Management Services, Survey and Mapping, and Aquatic Plant Management, an Office of State Lands Record Modernization, and the Office of Environmental Services.

Division of Marine Resources

The Division of Marine Resources protects and manages for a diverse array of marine species--including endangered species such as the West Indian manatee and five species of sea turtles--and marine habitats in Florida. The Division includes the Florida Marine Research Institute, the Bureau of Marine Resource Regulation and Development, the Bureau of Coastal and Aquatic Managed Areas, Office of Fisheries Management and Assistance Services, and the Bureau of Protected Species Management.

Division of Recreation and Parks

This Division operates the more than 140 State Parks throughout Florida. The Florida Park Service includes parks, recreation areas, museums, gardens, and preserves in five districts throughout the State. The Division consists of eight bureaus, including five districts, and two offices.

Division of Water Facilities

The Division of Water Facilities administers programs to ensure that Florida's waters are fishable, swimmable, and drinkable. The Division oversees the construction and operation of drinking water treatment facilities and domestic and industrial wastewater treatment plants. The Division administers the State's reclaimed water, reuse, and groundwater protection programs, and oversees mined land reclamation, beach management and restoration, and environmental and wetlands permitting. The Division has six bureaus: Drinking Water and Ground Water Resources, Water Facilities Planning and Regulation, Water Facilities Funding, Mine Reclamation, Beaches and Coastal Systems, and Submerged Lands and Environmental Resources.

Bureau of Beaches and Coastal Systems - The Bureau develops and implements the State's management plan for critically eroding areas, and

provides financial assistance to the Federal and local governments implementing this plan. The Bureau also regulates construction below mean high water in marine waters, and construction seaward of the Coastal Construction Control Line.

FLORIDA DEPARTMENT OF TRANSPORTATION

The DOT is responsible for planning, developing, operating, and maintaining a safe, cost effective and efficient statewide system of transportation facilities and services.

FLORIDA GAME AND FRESH WATER FISH COMMISSION

The Florida Game and Fresh Water Fish Commission's authority and responsibility are derived from the Florida constitution, State statutes, and executive orders of the Governor. The Commission, composed of five members appointed by the Governor and subject to Senate confirmation serves staggered 5-year terms, exercises the regulatory and executive powers of the State with respect to wild animal life and freshwater aquatic life.

The organizational structure includes; (1) an Office of the Executive Director responsible for appraising the Commission of current issues and executing Commission directives, (2) a Division of Law Enforcement responsible for enforcing State conservation laws, (3) a Division of Wildlife responsible for developing and implementing management practices that ensure the perpetuation of wildlife, (4) a Division of Fisheries responsible for maintaining and enhancing freshwater aquatic life, (5) a Division of Administrative Services responsible for providing support services to the agency, (6) an Office of Environmental Services responsible for implementing and coordinating habitat protection activities, especially those relating to the regulatory, land-use planning, and land acquisition programs of local, State, and Federal agencies, and (7) an Office of Informational Services responsible for informing and educating the public on resource and management issues, rules, and regulations.

Game, nongame, threatened and endangered wildlife and freshwater game, commercial, and non-consumptive fish under the jurisdiction of the GFC include 93 species of mammals, 428 species of birds, 208 species of freshwater fish, 53 species of amphibians, 98 species of reptiles (Stevenson 1976 in Anon. 1988), and an undetermined number of molluscs, invertebrates, and plants.

FLORIDA WATER MANAGEMENT DISTRICTS

The South Florida Ecosystem encompasses all of the South Florida Water Management District and portions of the Southwest Florida Water Management District and the St. Johns River Water Management District. All of the water management districts were created in 1972 and generally are instructed to: (1) ensure an adequate supply of water for all reasonable and beneficial uses, now and in the future, (2) minimize the potential for flood damage and restore the natural water storage and conveyance functions of flood prone areas preferably using non-structural surface water management

methods, (3) protect existing water quality and enhance water quality where appropriate, (4) preserve, protect and restore systems to support their natural hydrologic and ecologic functions, and (5) ensure support services effectively and efficiently contribute to the management and protection of water resources.

Since many of Florida's threatened and endangered species are wetland dependant, the authority for water management districts to utilize land acquisition in carrying out the mission of "flood control, water storage, water management, and preservation of wetlands, streams, and lakes" is coincidentally important to a multi-species recovery strategy.

South Florida Water Management District

The District is actively acquiring land in 42 projects totaling 855,777 acres. As of September 30, 1997 about 367,485 acres had been acquired (SFWMD 1998).

Southwest Florida Water Management District

Annual acquisition continuity is maintained by dividing projects into three groups. (1) A resource evaluation has been completed and acquisition authorized on 15 projects totaling 441,615 acres. As of October 1, 1996 about 32,397 acres had been acquired. (2) Three projects totaling 52,154 acres have been evaluated and await Governing Board approval. (3) Five projects totaling 56,225 acres scheduled for evaluation during 1998 (SWFWMD 1997).

St. Johns River Water Management District

The District, as of December 31, 1997, owns 113,206 acres located in the South Florida Ecosystem (SJWMD 1998).

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**Appendix H.
Glossary****Affect / Effect**

To affect (a verb) is to bring about a change; the effect (usually a noun) is the result.

Allopatric

Occurring in different places; describing geographically separated populations.

Autecology

The ecology of individual organisms or species; idioecology.

Barrier

Any feature that restricts movement of individuals from one place to another.

Biodiversity

Biodiversity is the total variety of life and its processes. Biodiversity exists at three different levels: the total variety represented by all species of plants and animals; the variety of different genes within each species; and the variety of different habitats and ecosystems in which these species exist.

Biogeography

The science that studies the geographic distribution of organisms.

Biological Opinion

Document stating the opinion of the Fish and Wildlife Service or the National Marine Fisheries Service on whether or not a Federal action is likely to jeopardize the continued existence of listed species, or result in the destruction or adverse modification of critical habitat.

Biota

The plants and animals of an area.

Biotic Community

Biological community or association, ecological community; an assemblage of species living in a prescribed area or physical habitat.

Buffer

Buffers are multi-use transition areas designed and managed to protect core reserves and critical corridors from the destructive impacts of human activities. They are designed with consideration for the specific ecological features to be protected and the specific activities that threaten them. These lands may be owned and managed through a wide variety of public and/or private programs.

Candidate Species

Plant and animal taxa for which the FWS has on file sufficient information on biological vulnerability and threat(s) to support proposals to list them as endangered or threatened species.

Carrying Capacity

The maximum number of organisms that can be supported in a given area or habitat.

Characteristic species

A species which is almost always present in examples of a particular community, usually at higher frequency than other species, but which is usually not dominant.

Charette

The term charette is derived from French architectural school jargon. The students had to have their final project designs ready when a little cart (charette) came for them. Hence charette began to be applied to the process of producing a design by a tight deadline. In conservation terminology it has come to be used for a workshop designed to produce consensus maps of a specific geographic area within a short timeframe.

Congeneric

Belonging to the same genus; congener.

Conservation

The use of all methods and procedures which are necessary to bring any endangered species or threatened species to the point at which the measures provided pursuant to [the] Act are no longer necessary. Such methods and procedures include, but are not limited to, all activities associated with scientific resources management such as research, census, law enforcement, habitat acquisition and maintenance, propagation, live trapping, and transportation, and, in the extraordinary case where population pressures within a given ecosystem cannot be otherwise relieved, may include regular taking.

Conspecific

Belonging to the same species.

Consultation

A process that determines whether a proposed Federal action is likely to jeopardize the continued existence of listed species or destroy or adversely modify designated critical habitat; begins with a Federal agency's written request and submittal of a complete initiation package; and concludes with the issuance of a biological opinion and incidental take statement.

Controlled Propagation

The rearing or propagation of a plant or animal under a controlled environment.

Core

Core reserves are extensive wilderness areas and wildlands managed to permit ecological processes to function as naturally as possible. They are generally chosen for their relatively natural condition, representation of regional species and/or ecosystems, and/or rich biodiversity. Some management may be necessary to compensate for such impacts as alteration of regional fire regimes or exotic plant invasion. And some strategic core areas may require extensive ecological restoration. Parts of core areas may be open to appropriately managed scientific research, educational programs, and non-motorized recreation, but extremely sensitive places may need to be closed to virtually all human use.

Corridor

Ecological corridors are landscape linkages designed to permit large-scale and long-term ecological processes to continue operating within fragmented ecosystems. They may be designed to facilitate movements of animals (for seasonal migration, breeding, foraging, or other purposes), plant propagules (via seed dispersal, movement of pollen or pollinators, or other mechanisms), and/or essential abiotic resources, such as water or nutrients. Long-term genetic implications are usually a fundamental consideration in corridor planning. Appropriate design and management of a corridor depends upon the ecological purposes it is intended to serve.

Primary corridors are the essential uninterrupted connections that integrate the landscape at the regional level. In most landscape situations, such corridors will be miles wide and structured so that a central spine managed like a core reserve is sheltered by strips of primary buffer within broader areas of secondary buffer. Primary corridors should generally be oriented along riparian systems or wildlife movement routes.

Create

The creation of natural community analogs on massively disturbed land where it is impossible or unfeasible to restore an historic natural community. Historic natural communities are used as general models, and only species which are within their historic ranges are used to construct these natural community analogs (*e.g.* the restoration of tropical hardwood hammocks on fill pads surrounding buildings along the Tamiami Trail).

Critical Habitat

The specific areas within the geographical area occupied by the species, at the time it is listed in accordance with the provisions of section 4 of the Endangered Species Act, on which are found those physical or biological features essential to the conservation of the species and which may require special management considerations or protection; and specific areas outside the geographical area occupied by the species at the time it is listed in accordance with the provisions of section four of the Endangered Species Act, upon a determination by the Secretary that such areas are essential for the conservation of the species.

Cryptorchidism

Failure of one or both of the testes to descend into the scrotum.

Demography

The statistical study of a population with reference to its size, density, distribution, and vital statistics.

Dispersal

The movement of organisms away from a location, such as their point of origin.

Dominant Species

Species which have the highest average relative cover values of all species found in the community.

Easement

An interest in the land of another that provides the easement holder specified rights without actual ownership.

Ecology

The branch of science that studies the distribution and abundance of organisms, and the relationship between organisms and their environment.

Ecosystem

Dynamic and interrelating complex of plant and animal communities and their associated non-living environment.

Ecotone

The boundary or transitional zone between adjacent communities or biomes; tension zone.

Ecotype

A genetically differentiated subpopulation restricted to a certain habitat.

Endemic

Native to, and restricted to, a particular geographical region.

Environment

The complex of climatic, soil, and biotic factors acting upon organisms.

Estuary

A semi-enclosed coastal water body which has free connection to the open sea and within which seawater is measurably diluted with freshwater.

ESA

The Endangered Species Act of 1973, as amended, 16 U.S.C. 1531 *et seq.*

Eutrophication

The process of nutrient enrichment in a water body. Eutrophication often results from nitrogen and phosphorous inputs from human activities such as sewage disposal and runoff from uplands. Such input stimulates algal blooms and bacteria growth, which contribute to depletion of oxygen in the water, anoxic conditions, and eventually leads to fish kills.

Evapotranspiration

The total water loss from the soil, including transpiration from the surface of plants and direct evaporation.

Exotic Species

Any introduced plant, animal, or protist species that is not native to the area and may be considered a nuisance.

Extinction

Dying out, usually global, of a species for any reason.

Extirpate

The removal, elimination, or disappearance of a taxon from a part of its range.

Federally Endangered

Any species which is in danger of extinction throughout all or a significant portion of its range.

Federally Threatened

Any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.

Florida Endangered

As designated by the GFC, a species, subspecies, or isolated population which is so few or depleted in number or so restricted in range or habitat due to any man-made or natural factors that it is in imminent danger of extinction or extirpation from the state, or which may attain such a status within the immediate future.

Florida Species of Special Concern

As designated by the Commission, a species, subspecies, or isolated population which warrants special protection, recognition, or consideration because it has an inherent significant vulnerability to habitat modification, environmental alteration, human disturbance, or substantial human exploitation which, in the foreseeable future, may result in its becoming a threatened species. The species may already meet certain criteria for designation as a threatened species but for which conclusive data are limited or lacking; may occupy such an unusually vital and essential ecological niche that should it decline significantly in numbers or distribution other species would be adversely affected to a significant degree; or has not sufficiently recovered from past population depletion.

Florida Threatened

As designated by the GFC, a species, subspecies, or isolated population which is acutely vulnerable to environmental alteration, declining in number at a rapid rate, or whose range or habitat is declining in an area at a rapid rate and as a consequence is destined or very likely to become an endangered species within the foreseeable future.

FNAI Global Rank:

- G1: Critically Imperiled Globally, Extreme Rarity
- T1: G1 rank equivalent for subspecies or varieties
- G2: Imperiled Globally, Rare
- T2: G2 rank equivalent for subspecies or varieties
- G3: Very Rare and Local throughout Range
- T3: G3 rank equivalent for subspecies or varieties

FNAI State Rank:

- S1: Critically imperiled in Florida, extreme rarity
- S2: Imperiled in Florida, rare
- S3: Very rare and local throughout range

FWS Species of Management Concern

This is a category assigned to species that also includes some of the species formerly designated as FWS Category 2 candidates. Former C2 candidates were those species for which information in the possession of the FWS indicated that proposing to list as endangered or threatened was possibly appropriate, but for which sufficient data were not available to support proposed rules.

On February 28, 1996 (61 FR 7596) the FWS indicated that it would no longer include such species in future notices of review, and would restrict the meaning of the term "candidate" to those species for which it had sufficient information to support listing proposals, or which had already been proposed for listing. This made the term candidate identical to Category 1 species in the previous review notices.

Geographic Information System (GIS)

A computerized system of organizing and analyzing any spatial array of data and information.

Greenway

A greenway is a corridor that serves both ecological and recreational functions. It can include terrestrial and/or properly buffered aquatic systems. A well-designed regional greenway system links non-motorized community transportation and recreation trails through secondary corridors to long-distance routes embedded in the buffers of primary ecological corridors and cores.

Habitat

The natural environment of an organism.

Habitat Conservation Plan

A comprehensive planning document that is a mandatory component of an incidental take permit pursuant to section 10(a)(2) of ESA.

Historical Range

The known general distribution of the species or subspecies as reported in the current scientific literature.

Holotype

In taxonomy, the single specimen designated or indicated as the type specimen of a nominal species by the original author at the time of publication or the single specimen when no type was specified but only one specimen was present.

Home Range

The area enclosing most of an individual's activities.

Hybridization

Crossing of individuals of different populations, races, or sometimes species.

Hydric

Wet.

Hydrology

The scientific studies of the properties, distribution and effects of water in the atmosphere, on the earth's surface, and in soil and rocks.

Hydropattern

A description of water movement change, *i.e.*, depth, timing, flow, and location of surface waters.

Hydroperiod

A measure of the fluctuation and change of water levels and flows over time. The length of time an area is inundated.

Indicator Species

A species which, in the context of the surrounding landscape or in comparison with related communities, seems to be most indicative of the particular community.

Interspecific

Refers to individuals of different species.

Intraspecific

Refers to individuals within a species.

Intrinsic Rate of Increase

The potential rate of growth of a population in an infinite environment, designated by r ; calculated as $r = b - d$, where b is the instantaneous birth rate and d is the instantaneous death rate; Malthusian parameter.

Introduction

A plant or animal moved from one place to another by man.

Jeopardy

An action that reasonably would be expected, directly or indirectly, to reduce appreciably the likelihood of both the survival and recovery of a listed species in the wild by reducing the reproduction, numbers, or distribution of that species.

Lacustrine

Referring to a lake or a ponded body of water larger than 8 ha (20 ac).

Landscape

An areal entity that is a composite of all the characteristics that distinguish a certain area on the earth's surface from other areas.

Limiting Factor

An environmental factor that limits a population's abundance or distribution.

Listed Species

Any species of fish, wildlife or plant which has been determined to be endangered or threatened under section 4 of ESA.

Littoral Zone

The shore zone from the high water mark to a depth where light is barely sufficient for rooted aquatic plants to grow.

Management

Any intentional or planned activity which has an effect on an existing natural community which has been degraded in some way. Management which attempts to restore natural community functions, structures and/or composition is termed restorative management. Restorative management includes both in-kind restoration and not-in-kind restoration.

Marginal Habitat

Habitats with few species due to adverse physical or other conditions.

Marl

A clay, sand, limestone mixture of varying proportions that is soft and crumbly and usually contains shell fragments.

Meiofauna

The smaller, invertebrate, fauna of the sea bottoms.

Mesic

Moderately moist or requiring moderate amounts of moisture, as in plants.

Metapopulation

A small number of relatively isolated populations that may occasionally exchange individuals; a group of conspecific populations coexisting in time but not in space.

Migration

In genetics, gene flow between populations; often used more generally for broad-scale movement of organisms with or without gene flow.

Mitigation

Compensation required for the alteration of natural resources or habitat pivotal to the survival or well-being of listed species.

Model

A conceptual or mathematical simulation of reality (*e.g.*, biological) for purposes of describing, analyzing, or understanding nature.

Mosaic

The occurrence of two types of genetically homozygous tissue in a heterozygote as the result of a mitotic chromosomal exchange.

Native

The term "native plant" may be defined several ways. The broadest definition would say native plants are plants that were indigenous to the landscape before European settlers arrived on the North American continent. If this definition was applied to just Florida, then it would say native plants are those plants that were indigenous to Florida before the arrival of European settlers. This definition may be extended even further to say that native plants are those plants that occur naturally and are not present due to ANY type of human activity including Native American activities before the arrival of European settlers. From Florida Native Plant Society.

Niche

The ecological role of a species in a community; conceptualized as the multi-dimensional space, of which the coordinates are the various parameters representing the condition of existence of the species, to which it is restricted by the presence of competitor species.

Null Hypothesis

A statistical hypothesis to be tested to see if an observed difference is due to chance alone as opposed to a systematic cause.

Oligotrophic

Said of plants that will grow on poor soil, of any organism that requires little food, and of those that are restricted to a narrow range of nutrients.

Oolitic

Composed principally of granules of calcium carbonate.

Overburden

Soil and debris removed from the surface of a site to be mined.

Palustrine

Referring to a ponded body of water smaller than 8 ha (20 ac).

Paradigm

Distinctive pattern of major assumptions, concepts, and propositions in a substantive area.

Periphyton

The surface population of submerged objects or substrates.

Physiography

The description of surface features of the earth such as bodies of air, water, and land.

Plan

A predetermined course of action.

Polygynous

A mating system of one male to multiple females.

Population

A group of fish or wildlife in the same taxon below the subspecific level, in common spatial arrangement that interbreed when mature.

Recovery

Improvement in the status of listed species to the point at which listing is no longer appropriate under the criteria set out in section 4(a)(1) of ESA; the process by which species' ecosystems are restored so they can support self-sustaining and self-regulating populations of the listed species as persistent members of native biotic communities.

Recreate

The restoration of a natural community on land which has been massively disturbed through mining, farming or other agricultural activities, road-building, *etc.*, so that the site no longer has any resemblance to the original natural community which once occupied the landscape. Re-creation may include both in-kind restoration and not-in-kind restoration. This type of restoration can be used to expand, add buffers to, or connect existing preserves.

Reintroduction

A plant or animal moved to a location where it occurred historically.

Reserve

Nature preserve, national park, refuge, natural reserve, or other conservation land. A tract of land set aside to preserve it in its natural condition.

Restoration

Management actions to return a vegetative community or ecosystem to its original, natural condition.

Risk Assessment

A tool to estimate the probability of extinction (or persistence) for a particular species.

Secondary Corridors

Secondary corridors knit the landscape together at the subregional level and tie into local greenways. They may cross low-traffic roads, narrow to only a few hundred yards at landscape bottlenecks, and/or incorporate mostly lands managed like buffers.

Section 4

The section of the Endangered Species Act of 1973, as amended, outlining procedures and criteria for: (1) identifying and listing threatened and endangered species; (2) identifying, designating, and revising critical habitat; (3) developing and revising recovery plans; and (4) monitoring species removed from the list of threatened and endangered species.

Section 7

The outlining procedures for interagency cooperation to conserve Federally listed species and designated habitat.

Section 9

The section of the Endangered Species Act of 1973, as amended, that prohibits the taking of endangered species of fish and wildlife as well as most threatened fish and wildlife species.

Section 10

The section of the Endangered Species Act of 1973, as amended, providing exceptions to the section 9 prohibitions. The exceptions most relevant to section 7 consultations are takings allowed by two kinds of permits issued by the FWS of NMFS: scientific take permits and incidental permits. The FWS can issue permits to take listed species for scientific purposes, or to enhance the propagation or survival of listed species. The FWS can also issue permits to take listed species incidental to otherwise legal activity.

Slough

A swamp, bog, or marsh, especially one that is part of a flow way, inlet, or backwater.

Species

Any subspecies of fish or wildlife or plants, and any distinct population segment of any species or vertebrate fish or wildlife which interbreeds when mature.

Species Abundance

In ecology, the relative distribution of the number of individuals of each species in a community.

Species Diversity

Either the absolute number of species, or in ecology a measure that incorporates both the number of species and their relative abundance.

Stochastic

Random or expected by chance.

Strand

Land bordering a body of water: Beach.

Subgenus

A taxon immediately below genus, the members of which are thought to be associated by genetic rather than geographical factors.

Subspecies

A group of interbreeding natural populations differing taxonomically and with respect to gene pool characteristics, and often isolated geographically, from other such groups within a biological species.

Subpopulation

Groups of territories within easy dispersal distance of one another (or a single territory) that are relatively isolated from one another within a defined dispersal distance.

Succession

An orderly process of biotic community development involving changes in species structure and community processes with time.

Sympatric

Occurring in the same place; refers to areas where species distributions overlap.

Synecology

An old term for the branch of ecology that deals with the study of groups of organisms associated together as a unit.

Synonymy

A chronological list or record of the scientific names applied to a species and its subdivisions.

Systematics

The study of the genetic and historical evolutionary relationships of organisms.

Take

To harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct.

Taxonomy

The naming of organisms and their assignment to taxa.

Translocation

The deliberate introduction or reintroduction of a species from another area by human intervention.

Trophic Level

Position in the food chain based on numbers of energy transfer steps (*e.g.*, producer, herbivore, carnivore).

Vagility

The ability to move from place to place.

Variety

A rank in the hierarchy of botanical classification; the principal category between species and form; an ambiguous term often used for any variant group within a species.

Vegetation Type

A plant community with distinguishable characteristics.

Wetlands

Lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water (Cowardin *et al.*, 1979). In saltwater areas, the separation between wetland and deepwater coincides with the elevation of the extreme low water of spring tide. In other areas, the separation is at a depth of two m (6.6 feet) below low water. This is the maximum depth in which emergent plants normally grow (Fraye and Hefner, 1991).

Wrack

Seaweed and other marine life which is cast up on the shore.

Xeric

Pertaining to or having dry or desert-like conditions.

Zoning

Land-use zoning; the demarcation of a planning area by ordinance into zones and the establishment of regulations to govern their use.