



American Consulting Engineers of Florida, LLC

2818 Cypress Ridge Blvd, Suite 200  
Wesley Chapel, Florida 33544  
Tel 813.435.2600 • Fax 813.435.2601  
american@ace-fla.com • www.ace-fla.com

October 9, 2008

Mr. Todd Mecklenborg  
U.S. Fish and Wildlife Service  
600 4<sup>th</sup> Street South  
St. Petersburg, FL 33701

RE: Request for natural resource assessment on the Gandy Boulevard Connector PD&E Project located in Sections 4, 5, 8, 9, Township 30S, Range 18E of Hillsborough County, Florida

Dear Mr. Mecklenborg:

American Consulting Engineers of Florida, LLC (American) is conducting a review for listed species occurrence records and critical habitats within the above-referenced corridor study area. The project involves a Project Development and Environment (PD&E) study for the Gandy Boulevard Connector in Hillsborough County, from the Gandy Bridge to the western termini of the Selmon Expressway, including a Biological Assessment.

American is requesting an assessment of the flora and fauna that are found and may potentially be found along the project corridor. Included with this request letter is a location map for the roadway study corridor. We are interested in the results of your preliminary survey assessing any known or potentially significant ecological resources along the project corridor that may warrant further study. Ideally, we would like information for at least one mile in any direction of the highlighted area.

We look forward to hearing back from you as soon as possible. Thanks in advance for your coordination efforts. If you need any other information or have any questions about this natural resources assessment, please call me at (813) 435-2643 or email me at [ccarter@ace-fla.com](mailto:ccarter@ace-fla.com).

Sincerely,  
American Consulting Engineers of Florida, LLC

Corey Carter  
Environmental Scientist

cc: file, Dave Bredahl, Jeff Novotny

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**Carter, R. Corey**

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**From:** Todd\_Mecklenborg@fws.gov  
**Sent:** Tuesday, March 03, 2009 3:56 PM  
**To:** Carter, R. Corey  
**Subject:** Gandy Connector

A list of potential species by county can be obtained on our webpage: [www.fws.gov/northflorida](http://www.fws.gov/northflorida).

Todd Mecklenborg, Fish & Wildlife Biologist  
U.S. Fish and Wildlife Service  
600 Fourth Street South  
Saint Petersburg, Florida 33701  
(727) 820-3705  
[www.fws.gov/northflorida/](http://www.fws.gov/northflorida/)



**U.S. Fish & Wildlife Service**

*North Florida Field Office*

# Hillsborough County Federally Listed Species

**This information is provided as a guide to project planning, and is not a substitute for site-specific surveys. Such surveys may be needed to assess species' presence or absence, as well as the extent of project effects on listed species and/or designated critical habitat.**

The following table lists those federally-listed species known to be present in the county.  
Code Key: E = Endangered, T = Threatened, P = Proposed, C = Candidate, CH = Critical Habitat

Category	Species Common Name	Species Scientific Name	Code
<b>Mammals</b>	West Indian (Florida) Manatee	<i>Trichechus manatus latirostris</i>	E/CH
<b>Birds</b>	Piping Plover	<i>Charadrius melodus</i>	T
	Florida Scrub-jay	<i>Aphelocoma coerulescens</i>	T
	Wood Stork	<i>Mycteria americana</i>	E
	Red-cockaded Woodpecker	<i>Picoides borealis</i>	E
<b>Fish</b>	Gulf Sturgeon	<i>Acipenser oxyrinchus desotoi</i>	T
<b>Reptiles</b>	Eastern Indigo Snake	<i>Dymarchon corais couperi</i>	T
	Green Sea Turtle	<i>Chelonia mydas</i>	E
	Leatherback Sea Turtle	<i>Dermochelys coriacea</i>	E
	Kemp's ridley Sea Turtle	<i>Lepidochelys kempii</i>	E
	Loggerhead Sea Turtle	<i>Caretta caretta</i>	T
<b>Amphibians</b>	None		
<b>Mollusks</b>	None		
<b>Crustaceans</b>	None		
<b>Plants</b>	Florida Golden Aster	<i>Chrysopsis (= Heterotheca) floridana</i>	E

▶ [Home](#) ▶ [Species: North Florida County](#) ▶ [Species: South Florida County](#) ▶ [Species: Panhandle County](#)

For details on State listed species, please go to <http://myfwc.com/imperiledspecies/>

Send comments on our web site or general questions to [North Florida office](#)  
If you need special assistance please contact the [Public Affairs Officer](#)

Last modified June 28, 2007

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american@ace-fla.com • www.ace-fla.com

October 9, 2008

Environmental Reviewer  
Florida Natural Areas Inventory  
1018 Thomasville Road, Suite 200-C  
Tallahassee, FL 32303

Re: Request for natural resource assessment on the Gandy Boulevard Connector PD&E Project located in Sections 4, 5, 8, 9, Township 30S, Range 18E of Hillsborough County, Florida.

Dear Environmental Reviewer:

American Consulting Engineers of Florida, LLC (American) is conducting a review for listed species occurrence records, potential natural areas, and other significant ecological resources within the above-referenced corridor study area. The project involves a Project Development and Environment (PD&E) study for the Gandy Boulevard Connector in Hillsborough County, from the Gandy Bridge to the western termini of the Selmon Expressway, including a Biological Assessment.

American is requesting an assessment of the flora and fauna of this site and the surrounding area. Included with this request letter is a location map for the roadway study corridor. We are interested in the results of your preliminary survey assessing any known or potentially significant ecological resources on the site that may warrant further study. Ideally, we would like information for at least one mile in any direction of the project limits indicated on the enclosed map.

We look forward to hearing back from you as soon as possible. Thanks in advance for your coordination efforts. If you need any other information or have any questions about this natural resources assessment, please call me at (813) 435-2643 or email at [ccarter@ace-fla.com](mailto:ccarter@ace-fla.com).

Sincerely,  
American Consulting Engineers of Florida, LLC

Corey Carter  
Environmental Scientist

cc: file, Dave Bredahl, Jeff Novotny

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Wesley Chapel, Florida 33544  
Tel 813.435.2600 • Fax 813.435.2601  
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October 9, 2008

Christina Williams  
Florida Fish and Wildlife Conservation Commission  
620 South Meridian St  
Mail Station 5B6  
Tallahassee, FL 32399-1600

Re: Request for natural resource assessment on the Gandy Boulevard Connector PD&E Project located in Sections 4, 5, 8, 9, Township 30S, Range 18E of Hillsborough County, Florida

Dear Christina Williams:

American Consulting Engineers of Florida, LLC (American) is conducting a review for listed species occurrence records, critical habitats, and Strategic Habitat Conservation Areas within the above-referenced corridor study area. The project involves a Project Development and Environment (PD&E) study for the Gandy Boulevard Connector in Hillsborough County, from the Gandy Bridge to the western termini of the Selmon Expressway, including a Biological Assessment.

American is requesting an assessment of the flora and fauna of this site. Included with this request letter is a location map for the roadway study corridor. We are interested in the results of your preliminary survey assessing any known or potentially significant ecological resources along the project corridor that may warrant further study. Ideally, we would like information for at least one mile in any direction of the highlighted area.

We look forward to hearing back from you as soon as possible. Thanks in advance for your coordination efforts. If you need any other information or have any questions about this natural resources assessment, please call me at (813) 435-2643 or email me at [ccarter@ace-fla.com](mailto:ccarter@ace-fla.com).

Sincerely,  
American Consulting Engineers of Florida, LLC

Corey Carter  
Environmental Scientist

cc: file, Dave Bredahl, Jeff Novotny

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**Carter, R. Corey**

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**From:** Zinn, Heidi M.  
**Sent:** Tuesday, March 10, 2009 9:51 AM  
**To:** Carter, R. Corey  
**Subject:** FW: Attention: Corey Carter  
**Attachments:** 2009\_5221ltr.doc; 2009\_5221a.pdf; 2009\_5221b.pdf

---

**From:** Stearns, Janice [mailto:Janice.Stearns@MyFWC.com]  
**Sent:** Tuesday, March 10, 2009 9:44 AM  
**To:** American Consulting Engineers of Florida, LLC  
**Subject:** Attention: Corey Carter

Mr. Carter,

Attached are the maps and letter for your project. Please let me know if I may be of further assistance.

*Jan Stearns*  
*Staff Assistant/Records Tech*  
*FWRI/IS&M*  
*850-488-0588*





**Florida Fish  
and Wildlife  
Conservation  
Commission**

**Commissioners**

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(850) 488-0558  
(850) 410-5269 FAX

*Managing fish and wildlife  
resources for their long-  
term well-being and the  
benefit of people.*

620 South Meridian Street  
Tallahassee, Florida  
32399-1600  
Voice: (850) 488-4676

Hearing/speech impaired:  
(800) 955-8771 (T)  
(800) 955-8770 (V)

MyFWC.com

March 10, 2009

Mr. Corey Carter  
American Consulting Engineers of Florida, LLC  
2818 Cypress Ridge Boulevard  
Suite 200  
Wesley Chapel, Florida 33544

Dear Mr. Carter:

This letter is in response to your request for listed species occurrence records for your project (Gandy Connector PD&E), located in Hillsborough County, Florida. No records of listed species occurrence or critical habitats from the Florida Fish and Wildlife Conservation Commission database were located within the project area. Enclosed are 8.5 x 11 maps showing biodiversity hotspots, and land cover for the project area.

This letter and/or attachments should not be considered as a review or an assessment of the impact upon threatened or endangered species of the project site. It provides FWC's most current data regarding the location of listed species and their associated habitats.

Our fish and wildlife location data represents only those occurrences recorded by FWC staff and other affiliated researchers. Please note that our database does not necessarily contain records of all listed species that may occur in a given area. Also, data on certain species, such as gopher tortoises, are not entered into our database on a site-specific basis. **Therefore, one should not assume that an absence of occurrences in our database indicates that species of significance do not occur in the area.**

The Florida Natural Areas Inventory (FNAI) maintains a separate database of listed plant and wildlife species, please contact FNAI directly for specific information on the location of element occurrences within the project area. Because FNAI is funded to provide information to public agencies only, you may be required to pay a fee for this information. County-wide listed species information can be located at their website (<http://www.fnai.org>).

Please credit the Florida Fish and Wildlife Conservation Commission in any publication or presentation of these data. If you have any questions or further requests, please contact me at (850) 488-0588 or [gisrequests@myfwc.com](mailto:gisrequests@myfwc.com).

Sincerely,

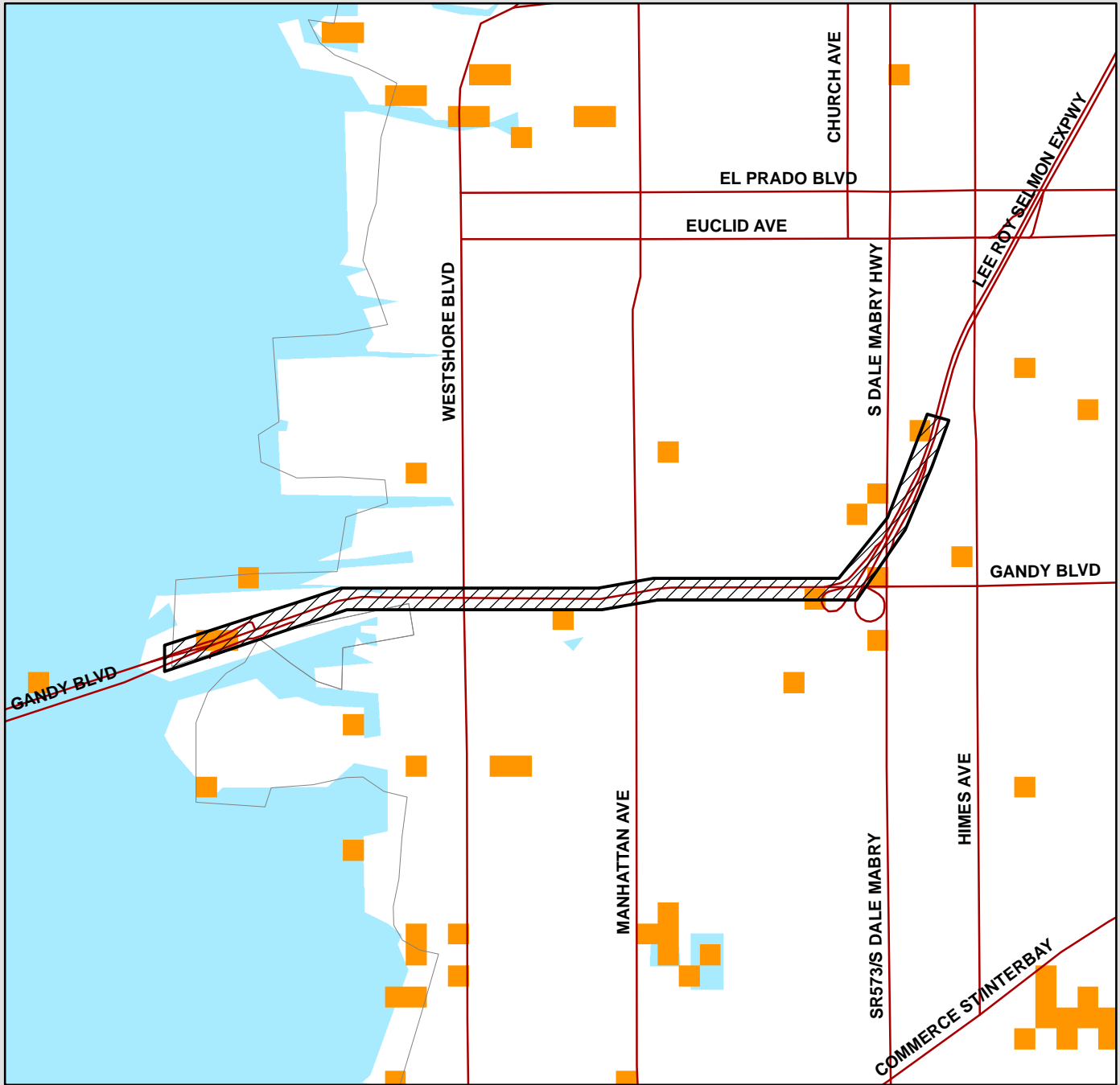
*Jan Stearns*

Jan Stearns  
Staff Assistant

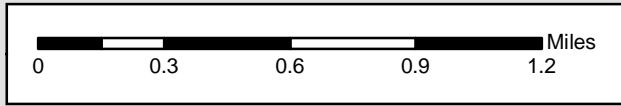
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2009\_5221  
Enclosures

# Biodiversity Hotspots

## Gandy Connector PD&E

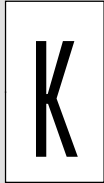
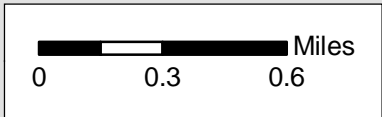
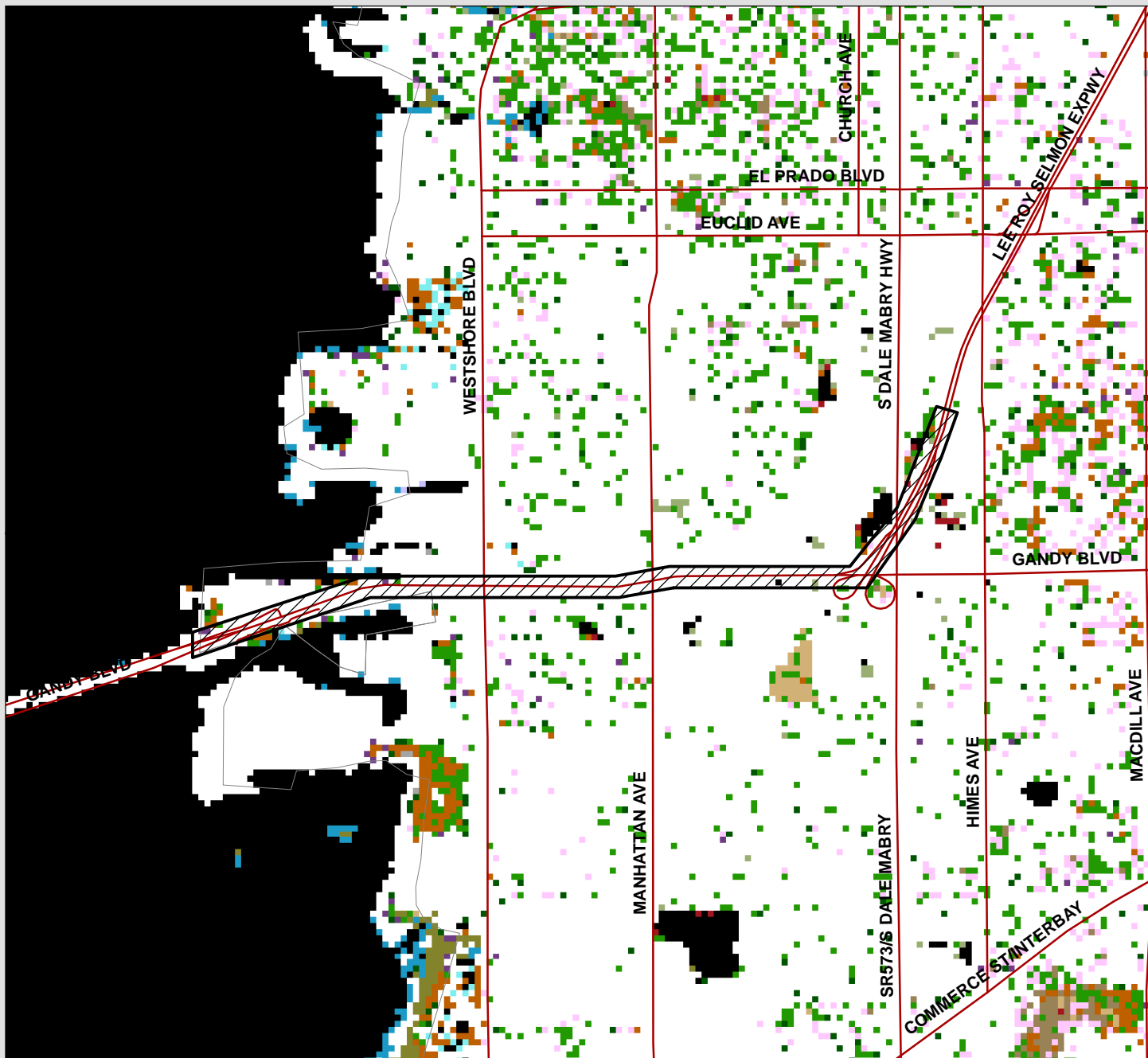


Biodiversity Hotspots	
	3 - 4 Focal Species Overlap
	5 - 6 Focal Species Overlap
	7+ Focal Species Overlap
	Major Roads
	County Boundary
	Project Site



# Florida Land Cover - 2003

## Gandy Connector PD&E



FLORIDA'S ENDANGERED SPECIES,  
THREATENED SPECIES, AND SPECIES  
OF SPECIAL CONCERN



May 2008

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

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## PREFACE

This document consolidates the official state of Florida list of endangered species, threatened species, and species of special concern. The Florida Fish and Wildlife Conservation Commission (FWC) maintains the state list of animals designated as endangered, threatened, or species of special concern, in accordance with Rules 68A-27.003, 68A-27.004, and 68A-27.005, respectively, Florida Administrative Code (F.A.C.), <https://www.flrules.org/Default.asp>. The state lists of plants, which are designated endangered, threatened, and commercially exploited, are administered and maintained by the Florida Department of Agriculture and Consumer Services (DOACS) via Chapter 5B-40, F.A.C. This list of plants can be obtained at [http://www.fl-dof.com/forest\\_management/plant\\_conserve\\_list.html](http://www.fl-dof.com/forest_management/plant_conserve_list.html). The federal agencies that share the authority to list species as Endangered and Threatened are the National Oceanic and Atmospheric Administration-National Marine Fisheries Service (NOAA-NMFS) and U. S. Fish and Wildlife Service (USFWS). The NOAA-NMFS is responsible for listing most marine species. The federal list of animals and plants is administered by the USFWS, and this list is published in 50 CFR 17 (animals) and 50 CFR 23 (plants). Additional information regarding federal listings can be located at the following websites;  
NOAA-NMFS - <http://www.nmfs.noaa.gov> and  
USFWS - <http://endangered.fws.gov/wildlife.html#Species>.

Please note that while the FWC has published a consolidated list of state and federally listed species in the past, we now only publish a list of species listed within the state of Florida. This list will be maintained and available at our agency website: <http://www.myfwc.com>. Lists of federally listed species can still be viewed at the USFWS and NOAA-NMFS websites mentioned above. It is our intent by providing the list in this manner that we will be able to maintain a current list that is more readily available to the public.

- **Common and scientific names listed first are as they appear in the Florida Administrative Code, Title 68A. Common and/or scientific names following this and located within parentheses ( ) contain names as used by USFWS, or other commonly used names.**

Bradley J. Gruver, Ph. D  
Listed Species Coordinator  
Species Conservation Planning Section  
Division of Habitat and Species Conservation  
Florida Fish and Wildlife Conservation Commission

Cover Photos by FWC Staff: Key Largo Woodrat, Burrowing Owls, Okaloosa Darter, Schaus' swallowtail butterfly, Short-tailed Snake.

**NUMERICAL SUMMARY OF SPECIES LISTED BY THE STATE OF FLORIDA AS ENDANGERED,  
THREATENED, OR SPECIES OF SPECIAL CONCERN**

<b>STATUS DESIGNATION</b>	<b>FISH</b>	<b>AMPHIBIANS</b>	<b>REPTILES</b>	<b>BIRDS</b>	<b>MAMMALS</b>	<b>INVERTEBRATES</b>	<b>TOTAL</b>
E	3	0	6	8	20	4	<b>41</b>
T	2	0	11	9	4	0	<b>26</b>
SSC	10	5	7	18	6	4	<b>50</b>
<b>TOTAL</b>	<b>15</b>	<b>5</b>	<b>24</b>	<b>35</b>	<b>30</b>	<b>8</b>	<b>117</b>

## OFFICIAL LISTS

Common Name	Scientific Name	Status
<b><u>FISH</u></b>		
Atlantic sturgeon (Gulf sturgeon)	<i>Acipenser oxyrinchus</i> ( <i>Acipenser oxyrinchus desotoi</i> )	SSC (1)
shortnose sturgeon	<i>Acipenser brevirostrum</i>	E
shoal bass	<i>Micropterus cataractae</i>	SSC (1,2)
Suwannee bass	<i>Micropterus notius</i>	SSC (1)
rivulus (mangrove rivulus)	<i>Rivulus marmoratus</i>	SSC (1)
Lake Eustis pupfish	<i>Cyprinodon variegatus hubbsi</i>	SSC (1)
blackmouth shiner	<i>Notropis melanostomus</i>	E
bluenose shiner	<i>Pteronotropis welaka</i>	SSC (1,2)
saltmarsh topminnow	<i>Fundulus jenkinsi</i>	SSC (1)
key silverside	<i>Menidia conchorum</i>	T
crystal darter	<i>Crystallaria asprella</i>	T
harlequin darter	<i>Etheostoma histrio</i>	SSC (1)
okaloosa darter	<i>Etheostoma okalossae</i>	E
Southern tessellated darter (tessellated johnny darter)	<i>Etheostoma olmstedii</i> <i>maculaticeps</i>	SSC (1)
key blenny	<i>Starksia starcki</i>	SSC (1)
<b><u>AMPHIBIANS</u></b>		
flatwoods salamander	<i>Ambystoma cingulatum</i>	SSC
Georgia blind salamander	<i>Haideotriton wallacei</i>	SSC (1,2)
pine barrens treefrog	<i>Hyla andersonii</i>	SSC (1)
Florida bog frog	<i>Rana okaloosae</i>	SSC (2)
gopher frog	<i>Rana capito</i>	SSC (1,2)
<b><u>REPTILES</u></b>		
American alligator	<i>Alligator mississippiensis</i>	SSC (1,3)
American crocodile	<i>Crocodylus acutus</i>	E
key ringneck snake	<i>Diadophis punctatus acricus</i>	T
Eastern indigo snake	<i>Drymarchon corais couperi</i>	T
red rat snake	<i>Elaphe guttata</i>	SSC <sup>1</sup> (1)
Atlantic salt marsh water snake (Atlantic salt marsh snake)	<i>Nerodia clarkii taeniata</i>	T



Common Name	Scientific Name	Status
Florida pine snake	<i>Pituophis melanoleucus mugitus</i>	SSC (2)
short-tailed snake	<i>Stilosoma extenuatum</i>	T
Florida brown snake	<i>Storeria dekayi victa</i>	T <sup>1</sup>
rim rock crowned snake	<i>Tantilla oolitica</i>	T
Florida ribbon snake	<i>Thamnophis sauritus sackeni</i>	T <sup>1</sup>
bluetail mole skink	<i>Eumeces egregius lividus</i>	T
Florida Key mole skink	<i>Eumeces egregius egregius</i>	SSC (1)
sand skink	<i>Neoseps reynoldsi</i>	T
gopher tortoise	<i>Gopherus polyphemus</i>	T
Barbour's map turtle	<i>Graptemys barbouri</i>	SSC (1,2)
alligator snapping turtle	<i>Macrolemys temminckii</i>	SSC (1)
striped mud turtle	<i>Kinosternon baurii</i>	E <sup>1</sup>
Suwannee cooter	<i>Pseudemys concinna suwanniensis</i>	SSC (1,2)
loggerhead seaturtle (loggerhead sea turtle)	<i>Caretta caretta</i>	T
green seaturtle (green sea turtle)	<i>Chelonia mydas</i>	E
leatherback seaturtle (leatherback sea turtle)	<i>Dermochelys coriacea</i>	E
hawksbill seaturtle (hawksbill sea turtle)	<i>Eretmochelys imbricata</i>	E
Kemp's ridley seaturtle (Kemp's ridley sea turtle)	<i>Lepidochelys kempii</i>	E
<b><u>BIRDS</u></b>		
pipin plover	<i>Charadrius melodus</i>	T
snowy plover (Cuban snowy plover)	<i>Charadrius alexandrinus</i>	T
American oystercatcher	<i>Haematopus palliatus</i>	SSC (1,2)
brown pelican	<i>Pelecanus occidentalis</i>	SSC (1)
black skimmer	<i>Rynchops niger</i>	SSC (1)
least tern	<i>Sterna antillarum</i>	T
roseate tern	<i>Sterna dougalli</i> ( <i>Sterna dougallii dougallii</i> )	T
limpkin	<i>Aramus guarana</i>	SSC (1)
reddish egret	<i>Egretta rufescens</i>	SSC (1,4)
snowy egret	<i>Egretta thula</i>	SSC (1)
little blue heron	<i>Egretta caerulea</i>	SSC (1,4)
tricolored heron	<i>Egretta tricolor</i>	SSC (1,4)

Common Name	Scientific Name	Status
white ibis	<i>Eudocimus albus</i>	SSC (2)
Florida sandhill crane	<i>Grus canadensis pratensis</i>	T
whooping crane	<i>Grus americana</i>	SSC (5)
wood stork	<i>Mycteria americana</i>	E
roseate spoonbill	<i>Platalea ajaja</i>	SSC (1,4)
burrowing owl (Florida burrowing owl)	<i>Athene cunicularia</i> ( <i>Athene cunicularia floridana</i> )	SSC (1)
crested caracara (Audubon's crested caracara)	<i>Caracara cheriway</i> ( <i>Polyborus plancus audubonii</i> )	T
peregrine falcon	<i>Falco peregrinus</i>	E
Southeastern American kestrel	<i>Falco sparverius paulus</i>	T
osprey	<i>Pandion haliaetus</i>	SSC <sup>2</sup> (1,2)
snail kite  (Everglades snail kite)	<i>Rostrhamus sociabilis</i> <i>plumbeus</i>	E
Florida scrub jay	<i>Aphelocoma coerulescens</i>	T
Cape Sable seaside sparrow	<i>Ammodramus maritimus</i> <i>mirabilis</i>	E
Florida grasshopper sparrow	<i>Ammodramus savannarum</i> <i>floridanus</i>	E
Scott's seaside sparrow	<i>Ammodramus maritimus</i> <i>peninsulae</i>	SSC (1)
Wakulla seaside sparrow	<i>Ammodramus maritimus</i> <i>juncicolus</i>	SSC (1)
white-crowned pigeon	<i>Columba leucocephala</i>	T
Kirtland's warbler	<i>Dendroica kirtlandii</i>	E
Bachman's warbler	<i>Vermivora bachmanii</i>	E
ivory-billed woodpecker	<i>Campephilus principalis</i>	E
red-cockaded woodpecker	<i>Picoides borealis</i>	SSC
Marian's marsh wren	<i>Cistothorus palustris marianae</i>	SSC (1)
Worthington's marsh wren	<i>Cistothorus palustris griseus</i>	SSC (1)
<b><u>MAMMALS</u></b>		
Florida panther	<i>Puma concolor coryi</i> ( <i>Puma [=Felis] concolor coryi</i> )	E
Florida black bear	<i>Ursus americanus floridanus</i>	T <sup>3</sup>
Everglades mink	<i>Mustela vison evergladensis</i>	T
key deer	<i>Odocoileus virginianus</i> <i>clavium</i>	E

Common Name	Scientific Name	Status
Lower Keys marsh rabbit	<i>Sylvilagus palustris hefneri</i>	E
Big Cypress fox squirrel	<i>Sciurus niger avicennia</i>	T
Sherman's fox squirrel	<i>Sciurus niger shermani</i>	SSC (1,2)
Eastern chipmunk	<i>Tamias striatus</i>	SSC (1)
Sanibel Island rice rat	<i>Oryzomys palustris sanibeli</i>	SSC (1,2)
silver rice rat (rice rat, lower FL Keys)	<i>Oryzomys argentatus</i> ( <i>Oryzomys palustris natator</i> )	E
Key Largo woodrat	<i>Neotoma floridana smalli</i>	E
Key Largo Cotton Mouse	<i>Peromyscus gossypinus</i> <i>allapaticola</i>	E
Choctawhatchee beach mouse	<i>Peromyscus polionotus</i> <i>allophrys</i>	E
Southeastern beach mouse	<i>Peromyscus polionotus</i> <i>niveiventris</i>	T
Anastasia Island beach mouse	<i>Peromyscus polionotus</i> <i>phasma</i>	E
St. Andrews beach mouse	<i>Peromyscus polionotus</i> <i>peninsularis</i>	E
Perdido Key beach mouse	<i>Peromyscus polionotus</i> <i>trissyllepsis</i>	E
Florida mouse	<i>Podomys floridanus</i>	SSC (1)
Florida mastiff bat	<i>Eumops glaucinus floridanus</i>	E
gray bat	<i>Myotis grisescens</i>	E
Indiana bat	<i>Myotis sodalis</i>	E
Florida saltmarsh vole (Florida salt marsh vole)	<i>Microtus pennsylvanicus</i> <i>dukecampbelli</i>	E
Sherman's short-tailed shrew	<i>Blarina carolonensis</i> [= <i>brevicauda</i> ] <i>shermani</i>	SSC (2)
Homosassa shrew	<i>Sorex longirostris eionis</i>	SSC (2)
sei whale	<i>Balaenoptera borealis</i>	E
fin whale (finback whale)	<i>Balaenoptera physalus</i>	E
North Atlantic right whale (right whale)	<i>Eubalaena glacialis</i> ( <i>Balaena glacialis</i> [incl. <i>australis</i> ])	E
humpback whale	<i>Megaptera novaeangliae</i>	E
sperm whale	<i>Physeter macrocephalus</i>	E
Florida manatee (West Indian manatee)	<i>Trichechus manatus latirostris</i> ( <i>Trichechus manatus</i> )	E

**Common Name****Scientific Name****Status**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Status</b>
<b><u>INVERTEBRATES</u></b>		
<b><u>CORALS</u></b>		
pillar coral	<i>Dendrogyra cylindrus</i>	E
<b><u>CRUSTACEANS</u></b>		
Panama City crayfish (econfina crayfish)	<i>Procambarus econfinae</i>	SSC (1)
sims sink crayfish (Santa Fe cave crayfish)	<i>Procambarus erythropus</i>	SSC (1)
black creek crayfish	<i>Procambarus pictus</i>	SSC (1)
<b><u>INSECTS</u></b>		
Miami blue butterfly	<i>Cyclargus [=Hermiargus] thomasi bethunebakeri</i>	E
Schaus' swallowtail butterfly	<i>Heraclides aristodemus ponceanus</i>	E
<b><u>MOLLUSKS</u></b>		
Florida tree snail	<i>Liguus fasciatus</i>	SSC (1)
Stock Island tree snail	<i>Orthalicus reses</i> <i>Orthalicus reses [not incl. nesodryas]</i>	E

## KEY TO ABBREVIATIONS AND NOTATIONS

### List Abbreviations

FWC =	Florida Fish and Wildlife Conservation Commission
E =	Endangered
T =	Threatened
SSC =	Species of Special Concern

Reasons for SSC listings prior to January 1, 2001 are indicated by the number in parenthesis under the following criteria:

- (1) has a significant vulnerability to habitat modification, environmental alteration, human disturbance, or human exploitation which, in the foreseeable future, may result in its becoming a threatened species unless appropriate protective or management techniques are initiated or maintained;
- (2) may already meet certain criteria for designation as a threatened species but for which conclusive data are limited or lacking;
- (3) may occupy such an unusually vital or essential ecological niche that should it decline significantly in numbers or distribution other species would be adversely affected to a significant degree;
- (4) has not sufficiently recovered from past population depletion, and
- (5) occurs as a population either intentionally introduced or being experimentally managed to attain specific objectives, and the species of special concern prohibitions in Rule 68A-27.002, F.A.C., shall not apply to species so designated, provided that the intentional killing, attempting to kill, possession or sale of such species is prohibited.

### List Notations

- <sup>1</sup> Lower keys population only.
- <sup>2</sup> Monroe County population only.
- <sup>3</sup> Other than those found in Baker and Columbia Counties or in Apalachicola National Forest.

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