

South Florida Ecosystem Team's Ecosystem Plan



Acknowledgments

The plan and this document have come to fruition through hard work, diligence, and a love of the South Florida Ecosystem by the U.S. Fish and Wildlife Service's South Florida Ecosystem Team and by Craig Johnson, Dawn Jennings, and Melanie Steinkamp. Thank you all for your vision.

Thanks also go to Janice Annis, Liz Chebib, Sherry Johanson, Nathan King, Brian Luprek, Harold Nugent, Susan Nugent, and Susan White for shaping up the text, figures, and total document. May we all see the "vision" clearly and help to make it come true.

Executive Summary

The U.S. Fish and Wildlife Service's South Florida Ecosystem Management Plan (Plan) was prepared by staff in the Divisions of Ecological Services, Fisheries, Law Enforcement, and Refuges and Wildlife. The South Florida Ecosystem encompasses eight subregions; (1) Kissimmee River, (2) Lake Okeechobee, (3) The Everglades, (4) Peace River, Charlotte Harbor, Caloosahatchee River, (5) Big Cypress Basin, (6) Florida Keys, (7) Upper East Coast, and (8) Lower East Coast. National interest lands of the South Florida Ecosystem include sixteen national wildlife refuges, five national parks, one national marine sanctuary, and one air force range. The U.S. Fish and Wildlife Service utilizes a variety of international treaties, legislative mandates, and cooperative agreements to manage federal trust resources such as migratory birds, threatened and endangered species, freshwater and freshwater wetlands, interjurisdictional fisheries, mangrove forests, estuaries and estuarine wetlands, seagrasses, hardbottom, and coral reefs.

Seven goals were established to assist Service personnel; federal, state, and local governments; landowners; private non-profit organizations and other partners in the conservation of trust resources and the restoration of the ecosystems on which wildlife and humans depend.

Goal 1. Protect and manage National Wildlife Refuge System units and other national interest lands.

Goal 2. Protect migratory birds and protect, restore, and manage their habitats.

Goal 3. Protect, restore, and manage candidate, threatened, and endangered species and their habitats.

Goal 4. Protect, restore, and manage wetlands and other freshwater habitats.

Goal 5. Protect, manage, and restore fish and other aquatic species, and their habitats.

Goal 6. Protect, restore, and enhance coastal and estuarine habitats.

Goal 7. Protect, restore, and manage for biodiversity.

Additional copies of the plan can be obtained from team members listed in Appendix A or from the internet at <http://www.fws.gov/r4eao/esvb.htm1>.

Table of Contents

Acknowledgments	i
Executive Summary	ii
I. The South Florida Ecosystem	1
II. Purpose of the Ecosystem Plan	4
III. Federal Trust Resources of the South Florida Ecosystem	4
A. National Interest Lands	5
1. National Wildlife Refuges (NWRs)	5
1.a. Archie Carr NWR	5
1.b. Arthur R. Marshall Loxahatchee NWR	6
1.c. Caloosahatchee NWR	7
1.d. Crocodile Lake NWR	7
1.e. Florida Panther NWR	8
1.f. Great White Heron NWR	8
1.g. Hobe Sound NWR	9
1.h. Island Bay NWR	10
1.i. J.N. "Ding" Darling NWR	10
1.j. Key West NWR	10
1.k. Lake Wales Ridge NWR	11
1.l. Matlacha Pass NWR	12
1.m. National Key Deer Refuge	12
1.n. Pelican Island NWR	12
1.o. Pine Island NWR	13
1.p. Ten Thousand Islands NWR	13
2. National Park Service Lands.....	14
2.a. Big Cypress National Preserve	14
2.b. Biscayne National Park.....	15
2.c. Dry Tortugas National Park	15
2.d. Everglades National Park	16
3. National Marine Sanctuaries.....	16
3.a. Florida Keys National Marine Sanctuary	16
4. Department of Defense Conservation Lands	17
4.a. Avon Park Air Force Range	17
B. Migratory Birds	17
C. Endangered and Threatened Species	18
1. Law Enforcement for Trust Species	20
D. Freshwater and Freshwater Wetlands	20
E. Marine and Coastal Resources	22
1. Fisheries	22
2. Estuaries	23
3. Reefs	24
4. Seagrasses	24
5. Mangroves	24
IV. The South Florida Ecosystem Restoration Initiative	25
V. Fish and Wildlife Service Ecosystem Subregions and Resource Issues	26
A. Kissimmee River Drainage, including Lake Wales Ridge	26
1. Issues	28
B. Lake Okeechobee, including Fisheating Creek and Taylor Creek	28
1. Issues	29
C. The Everglades	30
1. Issues	31
D. Peace River, Charlotte Harbor, and Caloosahatchee River	33
1. Issues	33
E. Big Cypress Basin, including Ten Thousand Islands and the Corkscrew RegionalEcosystem Watershed (CREW)	34
1. Issues	34
F. Florida Keys, including Florida Bay and the Reef Tract	35
1. Issues	36

G.	Upper East Coast	38
1.	Issues	38
H.	Lower East Coast	39
1.	Issues	40
VI.	Goals, Objectives, and Strategies for the South Florida Ecosystem Plan	43
VII.	Literature Cited	61
Appendix A.	Service South Florida Ecosystem Field Stations and Team Members	65
Appendix B.	Service's Partners in the South Florida Ecosystem.	68
Appendix C.	Birds of South Florida Protected by the Migratory Bird Treaty Act	71
Appendix D.	Federally Threatened and Endangered Species of the South Florida Ecosystem and Their Status for the State of Florida	88

U.S. Fish and Wildlife Service
1360 U.S. Highway 1
Suite 5
Vero Beach, Florida 32961

June 1998

