

TRACKING SUCCESS:
2005 INTEGRATED FINANCIAL PLAN FOR THE SOUTH FLORIDA ECOSYSTEM
RESTORATION TASK FORCE

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2005 INTEGRATED FINANCIAL PLAN

PURPOSE

In 1996 Congress directed the Task Force to prepare an integrated financial plan for the restoration, preservation and protection of the South Florida Ecosystem. The IFP is updated annually and posted on the South Florida Ecosystem Restoration Task Force website. Every two years it is published along with the Task Force Strategy and Biennial Report.

The purpose of the Integrated Financial Plan (IFP) is to provide detailed information about the federal, state, tribal and local restoration projects that contribute to the accomplishment of the vision, goals, subgoals, and objectives of the Task Force Strategy for restoration of the South Florida Ecosystem.

BACKGROUND

The overall premise of restoration is that the ecosystem must be managed from a systemwide perspective. Rather than dealing with issues independently, the challenge is to seek out the interrelationships that exist between all the components of the ecosystem. The same issues that are critical to the natural environment — getting the water right and restoring, preserving, and protecting diverse habitats and species — are equally critical to maintaining a quality built environment and lifestyle for South Florida's residents and visitors.

The success of this comprehensive approach will depend upon the coordination and integration of hundreds of individual restoration projects carried out by various agencies at all levels of government, and with input from many stakeholders. Each agency brings its own authority, jurisdiction, capabilities, and expertise to this initiative and applies them through its individual programs, projects, and activities.

CRITERIA AND ASSUMPTIONS

The IFP is a compilation of project specific information provided by the members of the Task Force. The cost estimating protocols, fiscal year cycles, time frames and methodologies used by the members vary widely. As such, the IFP reflects the criteria and assumptions used by the reporting Task Force entities and does not follow a single format. Specific criteria and assumptions for each project are annotated with footnotes.

For policy reasons, the Florida Department of Environmental Protection (FDEP) and SFWMD do not make individual project cost projections on future non-CERP land acquisitions for habitat preservation and conservation purposes listed under Goal 2. The cost of lands already purchased for habitat preservation and conservation purposes are the actual costs. An estimate of future land costs for non-CERP Goal 2 land acquisition is provided in the Total Cost Estimate in Appendix B of the 2004 edition of the Coordinating Success Volume 1 document.

The following criteria and assumptions apply to all of the project financial information as provided in the Task Force's 2005 Integrated Financial Plan:

- Federal agencies and the South Florida Water Management District (SFWMD) operate and report financial activities on an October 1 to September 30 fiscal year, while other State of Florida agencies operate on a July 1 to June 30 fiscal year.
- The U.S. Army Corps of Engineers (USACE), in seeking project authorizations, uses constant year dollars to develop cost estimates, as provided in appropriate authorizing documents. Once a project is authorized, the USACE uses OMB inflation indices to price level estimated project costs to current year dollars, then inflates to mid point of

construction using current schedule to produce a fully funded project cost estimate. Estimated project costs are updated annually using the OMB directed inflation indices and current schedules. . USACE project costs are reported as follows:

a) CERP: The Project Implementation Report (PIR) is the decision document used to obtain approval and/or authorization of CERP projects and completion of the final PIR is normally the time when all costs are updated. At present, most PIR's remain incomplete and, as such, all project cost estimates reported assume a 50% Federal and 50 % Non-Federal cost share and are reported in 1999 dollars, with the following exceptions: the Indian River Lagoon-South project, which has a completed Final PIR and is reported in 2003 dollars; and several Water Preserve Area (WPA) projects which reflect construction costs in 1999 dollars and land cost estimates that were updated to 2001 dollars during the WPA feasibility study. None of the CERP projects are fully funded.

b) Central & Southern Florida (C&SF) South Dade County C-111, C&SF West Palm Beach STA 1 East/ C-51 West, Kissimmee River Restoration, Everglades and South Florida Ecosystem Restoration Critical Projects costs are reported in 2005 dollars, fully funded.

c) Southwest Florida Feasibility Study: study cost estimate is reported in 2000 dollars. Per PMP (pp 48-49), \$12M is fully funded cost estimate.

d) Florida Bay/Florida Keys Feasibility Study: study cost estimate is reported in 2001 dollars. Per PMP (pg 52 and appendix C), \$6.229M is fully funded estimate.

- The SFWMD project costs are reported as follows:
 - a) Lake Okeechobee Protection Plan – project cost estimate is reported in 2003 dollars.
 - b) Everglades Construction Projects – project cost estimates are escalated values and are derived from construction industry-accepted cost databases and compared with similar previous SFWMD completed projects. Escalated value is defined as the value of when that component is expected to be constructed, including the estimated cost of inflation.
 - c) Water Supply Plans – cost estimates are reported in 1999 dollars.
- Reporting agencies needed to presume annual levels of Congressional and State of Florida appropriations to develop project completion schedules. If the actual appropriations vary from presumed levels, then project completion schedules and estimated projects costs may change.
- The Project Summary Table and IFP do not include operational costs or agency programmatic costs that would be incurred regardless of the restoration initiatives. For example, the National Park Service costs to operate and maintain Everglades National Park, Fish and Wildlife Service costs to provide for Endangered Species Act consultation and South Florida Water Management District costs to operate and maintain water delivery infrastructure are not included herein.
- The Project Summary Table and IFP do not include the costs of land development and associated infrastructure as well as infrastructure improvements in existing urban areas including but not limited to redeveloping declining urban areas, wastewater and storm water management systems construction and improvements, schools, roadways, utilities, government services, and light rail.
- The Project Summary Table and IFP do not include any current or future costs for science/research projects or studies.
- The Project Summary Table and IFP do not include any costs or future resource needs projected for environmental and system-wide monitoring programs (For example, the \$100 million funded over ten years for the CERP monitoring programs is not included).
- The Project Summary Table and IFP do not include any post-construction operations and maintenance costs in the total financial requirement.

HOW TO USE THE IFP PROJECT SUMMARY TABLE

The Integrated Financial Plan Summary Table provides a great deal of useful information for those interested in project details at a glance and describes how the projects link to the overall strategic goals, subgoals and objectives of the Task Force. This same table is repeated in Volume 1, Appendix A.

Each column of the table has a specific purpose to assist in finding information quickly and aggregating different information components:

Column 1 identifies the goal and subgoal the project is designed to achieve or partially achieve

Column 2 assigns a unique project number linked to the Task Force goals, subgoals, and objectives. The first digit is a goal number (1, 2, or 3). The second digit is the subgoal/objective number. For the purpose of assigning project numbers, the objectives under each goal have been numbered consecutively regardless of their subgoal. For example, project 1104 would be a project that supports objective 1-A.1, while project 1504 would be a project that supports objective 1-B.1 (the fifth objective under goal 1). The third and fourth digits reflect the order of listing of the projects under each subgoal/objective. For example, project 1104 would be the 4th project on the list for that objective.

Column 3 is the project name. The staff strives to use the same project name used by all agencies, although at times this is quite challenging. Some of the project names changed from year to year as projects are grouped together or split apart in the CERP adaptive management process. For example the Lake Istokpoga Project, which was a separate project in 2002, has since been included in the Lake Okeechobee Watershed Project. These types of actions affect the restoration endpoints and total outputs measured by some of the objectives, and as a result some of the restoration endpoints have changed.

Column 4 identifies the lead agency

Column 5 and 6 identify the reported start and Completion dates

Column 7 identifies the current estimated financial requirements

Column 8 identifies the financial resources appropriated as of October 1, 2005 unless otherwise noted.

Column 9 identifies the measurable output (e.g., acre-feet of storage, miles modified, etc.) that collectively add up to the restoration endpoint identified for achieving the objectives of each subgoal Columns 10 and 11 identify the primary and secondary objectives that the project outputs support. The staff identified the primary and secondary objectives based on input from the reporting agency. Some projects provide outputs supporting more than one objective. Thus, they are listed in more than one section with different outputs. For example, the Lake Okeechobee Watershed Project (project 1104) provides acres of stormwater treatment for Objective 1.B.1 and acre-feet of storage for Objective 1.A.1. Such projects are numbered according to the primary objective identified for the project, and the same number is maintained when the project is repeated to identify the secondary benefit.

Column 12 identifies the page number in Volume 2 where the detailed project sheet can be located.

Data as of October 1, 2005

2005 INTEGRATED FINANCIAL PLAN SUMMARY TABLE											
Goals Column 1	SP Project Number Column 2	Project Name Column 3	Lead Agency Column 4	Start Column 5	End Column 6	Financial Requirement Column 7	Appropriated to Date Column 8	Measurable Outputs Column 9	Primary Objective Column 10	Sec Obj Column 11	Page #
GOAL 1. GET THE WATER RIGHT											
Sub-Goal 1.A.GET THE HYDROLOGY RIGHT (Quantity, Timing & Distribution)											
1.A.1		SURFACE WATER STORAGE PROJECTS						ACRE-FT.			
	1101	C&SF: CERP Indian River Lagoon South, C-23/C-24/C-25/Northfork and Southfork Storage Reservoirs (UU), and C&SF: CERP C-44 Basin Storage Reservoir (B) (CERP Project # WBS 07)	USACE/SFWMD	2002	2009	1,262,709,000	130,298,000	190,000	1.A.1		25
	1102	C&SF: CERP Everglades Agricultural Storage Reservoir Phase I (CERP Project # WBS 08 and 09)	USACE/SFWMD	2001	2009	512,186,000	32,947,000	360,000	1.A.1		27
	1104	C&SF: CERP Lake Okeechobee Watershed (CERP Project # WBS 01)	USACE/SFWMD	2001	2008	556,374,000	36,682,000	250,000	1.A.1	1.B.1 2.A.3	29
	1105	C&SF: CERP North Lake Belt Storage Area (XX P2) (CERP Project # WBS 25)	USACE/SFWMD	2017	2040	298,852,000	0	90,000	1.A.1		31
	1106	C&SF: CERP Palm Beach County Agricultural Reserve Reservoir and ASR (CERP Project # WBS 20 and 21)	USACE/SFWMD	2006	2020	149,089,000	1,377,000	20,000	1.A.1	1.A.2	33
	1107	C&SF: CERP Site 1 Impoundment and Aquifer Storage and Recovery (CERP Project # WBS 22 and 40)	USACE/SFWMD	2002	2025	149,852,000	3,974,000	15,000	1.A.1	1.A.2	35
	1109	C&SF:CERP C-43 Basin Storage Reservoir and ASR (CERP Project # WBS 04 and 05)	USACE/SFWMD	2001	2020	514,961,000	55,858,000	160,000	1.A.1	1.A.2	37
	1110	C&SF:CERP Central Lake Belt Storage Area (CERP Project # WBS 26)	USACE/SFWMD	2017	2040	466,725,000	0	190,000	1.A.1	1.B.1	39
	1111	Critical Ecosystems Restoration Projects - Ten Mile Creek	USACE/SFWMD	1997	2005	38,058,000	38,058,000	5,000	1.A.1	2.A.3	41

Data as of October 1, 2005

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1.A.2		AQUIFER STORAGE & RECOVERY (ASR) PROJECTS							BGD			
	1109	C&SF:CERP C-43 Basin Storage Reservoir and ASR (CERP Project # WBS 05)	USACE/SFWMD	2001	2013	Footnote 1	Footnote 1	0.22	1.A.1	1.A.2	37	
	1200	C&SF: CERP North Palm Beach County - Part 2 (CERP Project # WBS 18)	USACE/SFWMD	2010	2020	198,847,000	0	0.17	1.A.2		42	
	1201	C&SF: CERP Lake Okeechobee ASR (GG)(CERP Project # WBS 03)	USACE/SFWMD	2013	2030	1,223,431,000	0	1	1.A.2		43	
	1106	C&SF: CERP Palm Beach County Agricultural Reserve Reservoir and ASR (CERP Project # WBS 21)	USACE/SFWMD	2010	2020	Footnote 1	Footnote 1	0.075	1.A.1	1.A.2	33	
	1107	C&SF: CERP Site 1 Impoundment and Aquifer Storage and Recovery (CERP Project # WBS 40)	USACE/SFWMD	2002	2024	Footnote 1	Footnote 1	0.15	1.A.1	1.A.2	35	
1.A.3.		MODIFY IMPEDIMENTS TO SHEETFLOW PROJECTS							MILES MODIFIED			
	1300	Canal 111	USACE/SFWMD	1994	2008	282,900,000	167,111,000	4	1.A.3	3.B.1	45	
	1301	C&SF: CERP WCA -3 Decentralization and Sheetflow Enhancement (AA)(QQ)(SS) (CERP Project # WBS 12 and 47)	USACE/SFWMD	2001	2020	211,687,000	14,347,000	240	1.A.3	2.A.3	46	
	1302	C&SF:CERP Florida Keys Tidal Restoration (CERP Project # WBS 31)	USACE/SFWMD	2001	2015	3,874,600	1,163,000	0.6	1.A.3		48	
	1303	Critical Projects Southern CREW	USACE	1999	2005	33,321,000	33,321,000		1.A.3		49	
	1304	East WCA-3A Hydropattern Restoration	SFWMD	1994	2012	28,224,966	5,344,966	8.5	1.A.3		50	
	1305	Kissimmee Prairie	FDEP/SFWMD	1996	1997	Footnote 1	Footnote 1	39.3	1.A.3	2.A.1	244	
	1306	Kissimmee River Restoration Project	USACE/SFWMD	1994	2010	571,400,000	227,704,000	22	1.A.3	2.A.3	51	

Data as of October 1, 2005

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	1307	Modified Water Deliveries to Everglades National Park (Footnote 3)	NPS	1990	2009	398,418,000	187,905	21	1.A.3		52
OTHER RELATED HYDROLOGY PROJECTS								TBD			
	1400	Critical Projects Additional Water Conveyance Structures Under Tamiami Trail	USACE/SFWMD	1998	2006	16,506,000	9,684,000				54
	1401	Biscayne Bay Feasibility Study	USACE/M-DADE	1996	2010	6,370,000	2,203,000				55
	1403	C&SF: CERP Broward County Secondary Canal System (CERP Project # WBS 24)	USACE/SFWMD	2001	2015	15,062,000	50,000				56
	1404	C&SF: CERP C-111N Spreader Canal (CERP Project # WBS 29)	USACE/SFWMD	2000	2009	114,007,000	14,184,000				57
	1405	C&SF: CERP – Water Preserve Area Conveyance (BB)(CERP Project # WBS 49)	USACE/SFWMD	2002	2020	321,574,000	227,000				58
	1408	C&SF: CERP Loxahatchee National Wildlife Refuge Internal Canal Structures (CERP Project # WBS 14)	USACE/SFWMD	2004	2020	8,834,000	49,000				59
	1503	C&SF: CERP North Palm Beach County PIR Part 1 (CERP Project # WBS 17)	USACE/SFWMD	2001	2019	Footnote 1	Footnote 1		1.B.1		90
	1409	C&SF: CERP Seminole Tribe Big Cypress Water Conservation Plan (CERP Project # WBS 96)	USACE/Seminole	2015	2020	87,206,000	0				60
	1410	C&SF:CERP Biscayne Bay Coastal Wetlands (CERP Project # WBS 28)	USACE/SFWMD	2001	2015	372,184,000	21,998,000				61
	1411	C&SF:CERP Caloosahatchee R. (C-43) Basin ASR Pilot Project (CERP Project # WBS 33)	USACE/SFWMD	2001	2008	8,173,200	3,476,000				62
	1412	C&SF:CERP Diverting WCA-2 and WCA-3 Flows to Central Lake Belt Storage Area (CERP Project # WBS 48)	USACE/SFWMD	2018	2025	525,313,000	284,000				63

Data as of October 1, 2005

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	1413	C&SF:CERP Everglades Rain Driven Operations	USACE/SFWMD	TBD	TBD	TBD	TBD				64
	1414	C&SF:CERP Henderson Creek/Belle Meade Restoration (CERP Project # WBS 93)	USACE	2002	2015	5,622,000	1,142,000			1.B.1	65
	1415	C&SF:CERP L-31 N Improvements for Seepage Management and S-356 Structures (CERP Project # WBS 27 and 43)	USACE/SFWMD	2004	2020	377,001,000	19,165,000				66
	1416	C&SF:CERP L-31 N Seepage Management Pilot Project (CERP Project # WBS 36)	USACE/SFWMD	2001	2010	11,267,000	3,102,000				68
	1417	C&SF:CERP Lake Belt (In-Ground Reservoir) Technology - Pilot Project (CERP Project # WBS 35)	USACE/SFWMD	2001	2020	26,023,000	1,919,000				69
	1418	C&SF:CERP Lake Okeechobee Aquifer Storage and Recovery Pilot Project (CERP Project # WBS 32)	USACE/SFWMD	2000	2009	30,860,523	8,084,000				70
	1419	C&SF:CERP Lake Okeechobee Regulation Schedule (CERP Project # WBS)	USACE/SFWMD	TBD	TBD	TBD	0				71
	1420	C&SF:CERP Modified Holeyland Wildlife Management Area Operation Plan (CERP Project # WBS 15)	USACE/SFWMD	2007	2015	TBD	0				72
	1421	C&SF:CERP Modified Rotenberger Wildlife Management Area Operation Plan (CERP Project # WBS 16)	USACE/SFWMD	2007	2009	TBD	0				73
	1422	C&SF:CERP Operational Modification to Southern Portion of L-31N and C-111 (CERP Project # WBS)	USACE/SFWMD	TBD	TBD	TBD	0				74

Data as of October 1, 2005

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	1423	C&SF:CERP Hillsboro Aquifer Storage and Recovery Pilot Project (CERP Project # WBS 34)	USACE/SFWMD	2000	2009	6,119,200	4,277,000				75	
	1424	C&SF:CERP Southern Golden Gates Estates Restoration (CERP Project # WBS 30)	USACE/SFWMD	2001	2009	349,422,000	120,210,000				76	
	1425	Critical Projects Seminole Big Cypress Reservation Water Conservation Plan	Seminole/USACE	1997	2008	49,871,000	19,549,000				78	
	1426	Florida Bay and The Florida Keys Feasibility Study	USACE	2001	2012	6,299,000	3,325,000				79	
	1430	Rotenberger Restoration	SFWMD	1994	2008	5,204,444	3,647,953				80	
	1431	Southwest Florida Feasibility Study	USACE	2001	2009	12,000,000	7,950,000				81	
	1432	WCA-2A Hydropattern Restoration	SFWMD	1994	2012	6,067,936	4,942,179				82	
	1433	West WCA-3A Hydropattern Restoration	SFWMD	1994	2012	11,843,396	7,402,471				83	
	1434	C&SF: CERP – Flows to Eastern Water Conservation Area (EEE) (CERP Project # WBS 23)	USACE/SFWMD	2011	2020	7,833,000	0				84	
	1435	C&SF: CERP- C-4 Control Structures (T) (CERP Project # WBS 46)	USACE/SFWMD	2004	2015	2,729,000	113,000				85	
Sub-Goal 1.B GET THE WATER QUALITY RIGHT												
1.B.1		STORMWATER TREATMENT AREA (STA) PROJECTS							ACRES			
	1104	C&SF: CERP Lake Okeechobee Watershed (CERP Project # WBS 01)	USACE/SFWMD	2001	2014	Footnote 1	Footnote 1	11,875	1.A.1	1.B.1	29	
	1500	C&SF: CERP Big Cypress/L-28 Interceptor Modifications (CCC) (CERP Project # WBS 10)	USACE/SFWMD	2011	2025	49,994,000	0	1,900	1.B.1		86	

Data as of October 1, 2005

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	1501	C&SF: CERP - Broward County WPA - C-9 Stormwater Treatment Area/Impoundment (R) and Western C-11 Diversion Impoundment and Canal (Q) and Water Conservation Areas 3A and 3B Levee Seepage Management (O) (CERP Project # WBS 45)	USACE/SFWMD	2002	2009	392,755,000	21,210,000	1,600	1.B.1		87
	1502	C&SF: CERP Miccosukee Tribe Water Management Plan (CERP Project # WBS 90)	USACE / Miccosukee	2003	2020	28,310,000	0	0	1.B.1		89
	1503	C&SF: CERP North Palm Beach County PIR Part 1 (CERP Project # WBS 17)	USACE/SFWMD	2001	2020	517,571,000	32,164,000	1,260	1.B.1		90
	1505	C&SF:CERP Caloosahatchee Backpumping with Stormwater Treatment (CERP Project # WBS 06)	USACE/SFWMD	2011	2020	96,962,000	0	5,000	1.B.1		93
	1110	C&SF:CERP Central Lake Belt Storage Area(CERP Project # WBS 26)	USACE	2017	2035	Footnote 1	Footnote 1	640	1.A.1	1.B.1	39
	1414	C&SF:CERP Henderson Creek/Belle Meade Restoration (CERP Project # WBS 93)	USACE	2002	2007	Footnote 1	Footnote 1	10	Other	1.B.1	65
	1506	Critical Projects: Lake Okeechobee Water Retention/ Phosphorus Removal	USACE/SFWMD	1997	2006	21,149,000	14,505,000	940	1.B.1		94
	1507	Miccosukee Tribe Water Management Area*	Miccosukee	TBD	TBD	42,113,000	0	900	1.B.1		
	1508	STA-1 West Works and Outflow Pump Station (G-310)	SFWMD	1994	2000	107,547,120	82,112,462	6,700	1.B.1		95
	1509	STA-2 Works and Outflow Pump Station (G-335)	SFWMD	1994	2000	126,105,249	100,412,226	6,430	1.B.1		96
	1510	STA-3/4 Works	SFWMD	1994	2005	210,942,148	170,384,794	16,600	1.B.1		97
	1511	STA-5 Works	SFWMD	1994	2005	44,434,803	36,183,366	4,118	1.B.1		98
	1512	STA-6 (includes sections 1 and 2)	SFWMD	1994	2006	35,176,236	14,575,063	2,222	1.B.1		99
	1513	C&SF: STA-1E/C-51 West	USACE/SFWMD	1994	2008	284,800,000	271,072,000	6,500	1.B.1		100

Data as of October 1, 2005

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1.B.2.		TOTAL MAXIMUM DAILY LOAD (TMDL) PLAN DEVELOPMENT							Completed Plans			
	1600	Total Maximum Daily Load (TMDL) for South Florida	FDEP	2000	TBD	Footnote 2	2,800,000		1.B.2		101	
OTHER RELATED WATER QUALITY PROJECTS												
	1700	Chapter 298 Districts/Lease 3420 Improvements	SFWMD	1994	2005	21,484,508	21,484,508				102	
	1701	Comprehensive Integrated Water Quality Feasibility Study	USACE	2001	2010	8,100,000	735,000				103	
	1702	Critical Projects Lake Trafford	USACE	1999	2005	30,043,000	30,043,000			2.A.3	104	
	1703	Critical Projects Western C-11 Water Quality Treatment	USACE	1997	2005	18,315,000	18,315,000				105	
	1704	Development of Best Management Practices Related to the Land Application of Residuals and Chicken Manure in the Lake Okeechobee Watershed	SFWMD	2000	2005	421,633	421,633				106	
	1705	Everglades National Park Water & Wastewater	NPS	1997	2006	18,965,000	17,365,000				107	
	1706	Everglades Regulation Division	SFWMD	1998	2016	Footnote 1	17,469,000				108	
	1707	Florida Aquifer Restoration	NRCS	2002	2008	900,000	600,000				109	
	1710	Miccosukee Water Resources Management*	Miccosukee	TBD	TBD	25,200,000	0					
	1713	S-5A Basin Runoff Diversion Works	SFWMD	1994	2005	12,417,593	11,775,000				110	
	1714	Seminole Tribe Best Management Practices for the Big Cypress Reservation*	Seminole	1996	2008	4,779,000	955,800					
	1715	Seminole Tribe Best Management Practices for the Brighton Reservation*	Seminole	1998	2008	338,000	96,000					
	1716	Seminole Tribe Comprehensive Surface Water Management System for the Brighton Reservation*	Seminole	1999	2010	15,818,000	20,000					
	1717	Seminole Tribe Water Conservation Project for Big Cypress Reservation*	Seminole	2002	2012	49,000,000	0					
	1719	STA-1 Inflow and Distribution Works	SFWMD	1994	2005	12,026,836	12,026,836				111	

Data as of October 1, 2005

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Goal 2 Restore Preserve and Protect Natural Habitats and Species											
Sub-Goal 2.A. RESTORE, PRESERVE AND PROTECT NATURAL HABITATS											
2.A.1.		HABITAT PROTECTION LAND ACQUISITION PROJECTS					ACRES				
		State Acquisitions									
	2100	Allapattah Flats/Ranch (Footnote 4)	FDEP	1997	TBD	TBD	3,775,844	35,999	2.A.1	1.A.1	115
	2101	Atlantic Ridge Ecosystem (Footnote 4)	FDEP/SFWMD	1995	TBD	TBD	80,123,486	15,698	2.A.1		116
	2102	Babcock Ranch	FDEP	2001	TBD	TBD	0	91,361	2.A.1		117
	2103	Barfield Farms	SFWMD	1998	TBD	TBD	0	1,367	2.A.1		118
	2104	Belle Meade	FDEP	1993	TBD	TBD	36,183,158	28,506	2.A.1		119
	2105	Big Bend Swamp/Holopaw Ranch	FDEP	2000	TBD	TBD	0	59,849	2.A.1		120
	2106	Biscayne Coastal Wetlands (Footnote 4)	SFWMD/M-DADE	1998	TBD	TBD	0	2,241	2.A.1		121
	2107	Bombing Range Ridge	FDEP	1998	TBD	TBD	15,003,388	41,748	2.A.1		122
	2108	Caloosahatchee Ecoscape	FDEP	1998	TBD	TBD	1,948,038	18,497	2.A.1		123
	2109	Calfish Creek	FDEP	1990	TBD	TBD	47,442,266	14,901	2.A.1		124
	2111	Charlotte Harbor Estuary/Flatwoods/Cape Haze	FDEP	1986	TBD	TBD	17,781,504	15,054	2.A.1		125
	2112	Corkscrew Regional Ecosystem Watershed	FDEP	1991	TBD	TBD	49,816,210	64,103	2.A.1		126
	2114	Coupon Bight/ Key Deer/ Big Pine Key	FDEP	1985	TBD	TBD	19,123,263	3,638	2.A.1		127
	2172	Cypress Creek/Loxahatchee	SFWMD	2002	TBD	TBD	44,116,173	4,347	2.A.1		128
	2115	Cypress Creek/Trail Ridge (Footnote 4)	SFWMD	1997	TBD	TBD	968,857	13,788	2.A.1		129
	2183	Devils Garden	FDEP	2002	TBD	TBD	0	82,508	2.A.1		130
	2117	East Coast Buffer/Water Preserve Areas (Footnote 4)	FDEP/SFWMD	1994	TBD	TBD	120,745,323	66,809	2.A.1		131
	2118	Estero Bay	FDEP	1985	TBD	TBD	44,720,290	15,572	2.A.1		132

Data as of October 1, 2005

2005 INTEGRATED FINANCIAL PLAN SUMMARY TABLE											
Goals Column 1	SP Project Number Column 2	Project Name Column 3	Lead Agency Column 4	Start Column 5	End Column 6	Financial Requirement Column 7	Appropriated to Date Column 8	Measurable Outputs Column 9	Primary Objective Column 10	Sec Obje	Page #
	2119	Everglades Agricultural Area (EAA) / Talisman (Footnote 4)	SFWMD/DOI	1997	TBD	TBD	3,390,353	51,210	2.A.1		133
	2120	Fakahatchee Strand	FDEP	1980	TBD	TBD	24,836,008	80,332	2.A.1		134
	2121	Fisheating Creek	SFWMD/ FDEP	1999	TBD	TBD	101,928,563	176,760	2.A.1		135
	2122	Florida Keys Ecosystem	FDEP	1992	TBD	TBD	37,615,178	8,566	2.A.1		136
	2123	Frog Pond/L-31 N	FDEP/ SFWMD	1982	TBD	TBD	83,623,264	10,450	2.A.1		137
	2185	Half Circle L Ranch	SFWMD	2003	TBD	TBD	0	10,500	2.A.1		138
	2175	Hen Scratch Ranch	SFWMD	2002	TBD	TBD	0	2,880	2.A.1		139
	2124	Indian River Lagoon Blueway	FDEP	1998	TBD	TBD	21,927,795	5,136	2.A.1		140
	2125	Juno Hills /Dunes	FDEP	1994	TBD	TBD	41,892,718	590	2.A.1		141
	2176	Jupiter Ridge	FDEP	1991	TBD	TBD	23,099,950	287	2.A.1		142
	2126	Kissimmee - St. John Connector	FDEP	2001	TBD	TBD	0	9,463	2.A.1		143
	2127	Kissimmee River (Lower Basin)	SFWMD	1985	2005	TBD	56,406,882	68,332	2.A.1		144
	2128	Kissimmee River (Upper Basin)	SFWMD	1990	2005	TBD	70,825,219	36,763	2.A.1		145
	2129	Lake Wales Ridge Ecosystem	FDEP	1992	TBD	TBD	25,507,388	13,848	2.A.1		146
	2132	Loxahatchee Slough Land Acquisition	SFWMD	1996	TBD	TBD	35,920,793	15,200	2.A.1		147
	2133	McDaniel Ranch Land Acquisition	SFWMD	2000	TBD	TBD	0	7,000	2.A.1		148
	2134	Miami-Dade County Archipelago	FDEP	1994	TBD	TBD	23,524,235	858	2.A.1		149
	2135	Model Lands (Footnote 4)	SFWMD/ M-DADE	1994	2007	TBD	2,119,701	42,402	2.A.1		150
	2138	North Fork St Lucie River (Footnote 4)	FDEP/ SFWMD	1988	TBD	TBD	0	3,800	2.A.1		151
	2139	North Key Largo Hammocks	FDEP	1983	TBD	TBD	75,403,715	4,513	2.A.1		152
	2140	North Savannas	SFWMD	1997	TBD	TBD	0	930	2.A.1		153
	2141	Okaloacoochee Slough	FDEP/ SFWMD	1996	TBD	TBD	20,570,673	37,210	2.A.1		154
	2142	Okeechobee Battlefield	FDEP	2001	TBD	TBD	0	56	2.A.1		155
	2143	Osceola Pine Savannas	FDEP	1995	TBD	TBD	310,000	1,374	2.A.1		156

Data as of October 1, 2005

2005 INTEGRATED FINANCIAL PLAN SUMMARY TABLE											
Goals Column 1	SP Project Number Column 2	Project Name Column 3	Lead Agency Column 4	Start Column 5	End Column 6	Financial Requirement Column 7	Appropriated to Date Column 8	Measurable Outputs Column 9	Primary Objective Column 10	Sec Obje	Page #
	2144	Pal-Mar (Footnote 4)	FDEP/SFWMD	1992	TBD	TBD	23,987,000	36,745	2.A.1		157
	2145	Panther Glades	FDEP	2001	TBD	TBD	75,049,836	53,894	2.A.1		158
	2146	Paradise Run	SFWMD	1998	TBD	TBD	4,908,095	4,265	2.A.1		159
	2147	Lake Hatchineha Watershed/ Parker-Poinciana	SFWMD	1996	TBD	TBD	0	6,437	2.A.1		160
	2148	Pineland Site Complex	FDEP	1996	TBD	TBD	1,751,874	206	2.A.1		161
	2178	Ranch Reserve	SFWMD	1997	TBD	TBD	39,286	2,217	2.A.1		162
	2149	Rookery Bay	FDEP	1980	TBD	TBD	45,500,833	18,721	2.A.1		163
	2150	Rotenberger/Holey Land Tract	FDEP	1984	TBD	TBD	20,114,395	79,170	2.A.1		164
	2151	Shingle Creek	SFWMD	1987	TBD	TBD	6,314,344	7,655	2.A.1		165
	2152	Six Mile Cypress I & II Land Acquisition	SFWMD	1987	TBD	TBD	6,903,701	1,966	2.A.1		166
	2154	South Savannas	FDEP/SFWMD	1981	TBD	TBD	20,902,290	6,046	2.A.1		167
	2155	Southern Glades (Footnote 4)	SFWMD/M-DADE	1964	TBD	TBD	6,951,829	37,620	2.A.1		168
	2156	Southern Golden Gate Estates (Footnote 4)	FDEP	1984	TBD	TBD	632,659	55,247	2.A.1		169
		STA 1 W, 2,3/4, 5, and 6 (See project IDs 1508-1512)	SFWMD			TBD	126,772,412	41,089	2.A.1		
	2158	Twelve Mile Slough	SFWMD	1998	TBD	TBD	11,000,000	15,653	2.A.1		170
	2159	Upper Lakes Basin Watershed	SFWMD	1995	TBD	TBD	12,343,957	47,300	2.A.1		171
	2186	Upper Econ Mosaic	FDEP	1996	TBD	TBD	0	16,595	2.A.1		172
	2160	Water Conservation Areas 2, and 3	SFWMD	1948	TBD	TBD	10,572,395	721,433	2.A.1		173
		Federal Acquisitions						ACRES			
	2161	A.R. M. Loxahatchee National Wildlife Refuge	USFWS	1955	2005	30,119,000	119,000	145,567	2.A.1		174
	2163	Big Cypress National Preserve Addition	NPS	1989	2005	48,793,000	46,396,000	146,117	2.A.1		175
	2164	Big Cypress National Preserve Private Inholdings (Footnote 3)	NPS	1974	TBD	243,982,000	222,105,000	574,449	2.A.1		176

Data as of October 1, 2005

2005 INTEGRATED FINANCIAL PLAN SUMMARY TABLE												
Goals Column 1	SP Project Number Column 2	Project Name Column 3	Lead Agency Column 4	Start Column 5	End Column 6	Financial Requirement Column 7	Appropriated to Date Column 8	Measurable Outputs Column 9	Primary Objective Column 10	Sec Obje	Page #	
	2165	Complete Land Acquisition for Biscayne National Park	NPS	1968	TBD	33,699,000	31,851,000	172,924	2.A.1		177	
	2166	Crocodile Lake National Wildlife Refuge	USFWS	1979	2005	14,319,000	13,093,000	7,100	2.A.1		178	
	2167	East Everglades Addition to Everglades National Park	NPS	1990	2005	102,447,000	90,366,000	109,504	2.A.1		179	
	2168	Florida Keys National Wildlife Refuge Complex	USFWS	1960	2005	35,028,000	31,168,000	415,436	2.A.1		180	
	2169	Florida Panther National Wildlife Refuge	USFWS	1989	TBD	10,692,000	10,682,000	61,573	2.A.1		181	
	2170	Hobe Sound National Wildlife Refuge	USFWS	1968	2004	5,818,000	18,000	1,130	2.A.1		182	
	2171	J.N. "Ding" Darling National Wildlife Refuge	USFWS	1945	2005	12,145,000	9,035,000	10,275	2.A.1		183	
2.A.2.		CORAL REEF PROTECTION PROJECTS							% Reef Protected			
	2200	Planning and Implementation of the Tortugas Ecological Reserve	NOAA	1997	TBD	Footnote 2	42,600,000	10%	2.A.2		184	
2.A.3		IMPROVE NATURAL AREAS HABITAT QUALITY PROJECTS							ACRES			
	2300	C&SF: CERP Protect and Enhance Existing Wetland Systems along LNWR (Strazzulla Tract) (CERP Project # WBS 39)	USACE/SFWMD	2002	2015	67,390,000	3,781,000	10,000	2.A.3		185	
	2301	C&SF: CERP Winsburg Farms Wetland Restoration (CERP Project # WBS 91)	USACE	2000	2008	16,736,000	2,535,000	175	2.A.3		186	
	2302	C&SF:CERP Lake Park Restoration (CERP Project # WBS 94)	USACE/ Lee Co.	1999	2009	5,928,000	509,000	40	2.A.3		187	
	2303	C&SF:CERP Restoration of Pineland and Hardwood Hammocks in C-111 Basin (CERP Project # WBS 92)	USACE	2016	2025	689,000	0	50	2.A.3		188	
	3802	C&SF:CERP Wastewater Reuse Technology Pilot Project(CERP Project # WBS 37)	USACE/SFWMD	2001	2013	Footnote 1	Footnote 1	1,500	3.C.2	2.A.3	230	
	1301	C&SF: CERP WCA -3 Decentralization and Sheetflow Enhancement (AA)(QQ)(SS)(CERP Project # WBS 12 and 13))	USACE/SFWMD	2001	2019	Footnote 1	Footnote 1		1.A.3	2.A.3	47	

Data as of October 1, 2005

2005 INTEGRATED FINANCIAL PLAN SUMMARY TABLE												
Goals Column 1	SP Project Number Column 2	Project Name Column 3	Lead Agency Column 4	Start Column 5	End Column 6	Financial Requirement Column 7	Appropriated to Date Column 8	Measurable Outputs Column 9	Primary Objective Column 10	Sec Obje Column 11	Page #	
	1111	Critical Ecosystems Restoration Projects - Ten Mile Creek	USACE/SFWMD	1997	2003	Footnote 1	Footnote 1	2,740	1.A.1	2.A.3	42	
	1702	Critical Projects Lake Trafford	USACE	1999	2004	Footnote 1	Footnote 1			2.A.3	105	
	2606	Hole-in-the-Donut	NPS	1994	2017	Footnote 1	Footnote 1	6,000		2.A.3	204	
	1306	Kissimmee River Restoration Project	USACE/SFWMD	1994	2010	Footnote 1	Footnote 1	27,000	1.A.3	2.A.3	52	
	2304	A.R.M. Loxahatchee NWR Prescribed fire program	USFWS	2002	TBD	Footnote 1	727,200	TBD	2.A.3		189	
	2305	Loxahatchee Impoundment Landscape Assessment (LILA)	USFWS	2002	2012	6,050,000	3,576,500	TBD	2.A.3		190	
	1100	C&SF: CERP Acme Basin B Discharge (CERP Project # WBS 38)	USACE	2002	2007	24,241,000	9,126,000	3,800	2.A.3		191	
OTHER NATURAL HABITAT AND SPECIES PROJECTS												
	2400	Big Cypress National Preserve Mineral Rights	NPS	2000	TBD	TBD	0				192	
	2401	C&SF: CERP- Flow to Northwest and Central WCA -3A (II)(RR) (CERP Project # WBS 11)	USACE/SFWMD	2002	2020	35,424,000	66,000				193	
	1307	Modified Water Deliveries to Everglades National Park	NPS	1990	2008	Footnote 1	Footnote 1		1.A.3		52	
	2402	South Florida Multi-Species Recovery Plan	USFWS	1994	2010	386,991,000	115,913,000				195	
	2403	WCA-2A Regulation Schedule Review	USACE	TBD	TBD	TBD	0				197	
	2404	C&SF: Manatee Pass Gates	USACE/SFWMD	2001	2007	13,800,000	9,303,000				198	
Sub-Goal 2.B. CONTROL INVASIVE PLANT AND ANIMAL SPECIES												
2.B.1		INVASIVE EXOTIC PLANT SPECIES MANAGEMENT PLAN DEVELOPMENT						Completed Plans				
	2500	Coordinate the development of management plans for top 20 south Florida exotic pest plants	NEWTT	2001	2011	600,000	0	20	2.B.1		199	

Data as of October 1, 2005

2005 INTEGRATED FINANCIAL PLAN SUMMARY TABLE												
Goals Column 1	SP Project Number Column 2	Project Name Column 3	Lead Agency Column 4	Start Column 5	End Column 6	Financial Requirement Column 7	Appropriated to Date Column 8	Measurable Outputs Column 9	Primary Objective Column 10	Sec Obj Column 11	Page #	
2.B.2		EXOTIC PLANT SPECIES MAINTENANCE CONTROL PROJECTS										
	2600	Achieve "Maintenance Control" status for Brazilian Pepper, Melaleuca, Australian pine and Old world climbing fern in all natural areas statewide by 2020	SFWMD	2002	2020	139,078,000	117,250,000	4	2.B.2		200	
	2601	Integration of Federal, State, and Local Agency Invasive Exotic Control Programs into Florida-wide Strategy	NPS	2000	2005	Footnote 2	415,090,000		2.B.2		201	
	2602	C&SF:CERP- Melaleuca Eradication Project and other Exotic Plants (CERP Project # WBS 95)	USACE	2003	2009	6,554,000	1,688,000		2.B.2		202	
	2603	Estero Bay Aquatic Preserve and Buffer Reserve Enhancement and Exotic Removal Project	FDEP	1998	2004	Footnote 1	1,100,000		2.B.2		203	
	2604	Everglades National Park Exotic Control Program	NPS	2002	TBD	TBD	4,953,000		2.B.2		204	
	2605	Exotic Species Removal*	Seminole	1998	2010	988,000	280,000		2.B.2			
	2606	Hole-in-the-Donut	NPS	1994	2017	123,750,000	58,486,000		2.B.2	2.A.3	205	
	2607	Melaleuca Control (Critical) Big Cypress National Preserve	NPS	1998	TBD	4,000,000	3,400,000		2.B.2		206	
	2608	Aquatic and Upland Invasive Plant Management	FDEP	TBD	TBD	Footnote 2	103,701,200		2.B.2		207	
2.B.3.		INVASIVE EXOTIC PLANT SPECIES PREVENTION PLAN DEVELOPMENT										
	2700	Complete an Invasive Exotics Plant Prevention, Early Detection and Eradication Plan by 2005	NEWTT/ DEP/ NPS	2001	2003	5,000,000	0		2.B.3		208	
	2701	Melaleuca Quarantine Facility	USDA/ ARS	1997	2004	7,200,000	6,200,000		2.B.3		209	
GOAL 3. FOSTER COMPATIBILITY OF THE BUILT AND NATURAL SYSTEM												
Sub-Goal 3.A. USE AND MANAGE LAND COMPATIBLE WITH RESTORATION												
3.A.1		DESIGNATE OR AQUIRE LAND FOR FLORIDA GREENWAYS AND TRAILS SYSTEM							Acres			
	3100	Florida Greenways and Trails Designation Project	FDEP/ OGT	2000	2009	4,500,000	0	480,000	3.A.1		213	

Data as of October 1, 2005

2005 INTEGRATED FINANCIAL PLAN SUMMARY TABLE												
Goals Column 1	SP Project Number Column 2	Project Name Column 3	Lead Agency Column 4	Start Column 5	End Column 6	Financial Requirement Column 7	Appropriated to Date Column 8	Measurable Outputs Column 9	Primary Objective Column 10	Sec Obje	Page #	
	3102	Lake Okeechobee Scenic Trail	FDEP	2003	TBD	25,000,000	12,500,000		3.A.1		214	
3.A.2		AGRICULTURE LANDS CONSERVATION MANAGEMENT PROJECTS							Acres			
	3201	Technical Assistance to Seminole and Miccosukee Indian Reservations	NRCS	1998	2011	15,000,000	693,000	107,000	3.A.2		215	
	3202	2002 Farm Bill	NRCS	2002	2007	Footnote 2	66,868,000	see project sheet	3.A.2		216	
3.A.3		FLORIDA PARK, RECREATION AND OPEN SPACE LANDS PROJECTS							Acres			
	3301	Florida Keys Overseas Heritage Trail	FDEP	TBD	TBD	40,000,000	17,055,800	TBD			217	
3.A.4		BROWNFIELDS REHABILITATION AND REDEVELOPMENT PROJECTS										
	3400	Eastward Ho! Brownfields Partnership	SFRPC	1998	2010	Footnote 2	63,982,000		3.A.4		221	
3.A.5		INCREASE COMMUNITY UNDERSTANDING OF RESTORATION PROJECTS										
	3500	USDA-NRCS/South Florida Ecosystem Restoration Council & Committee Earth Team Project	USDA	2004	TBD	1,550,000	300,000		3.A.5		222	
	3501	South Florida Ecosystem Restoration Non Point Source Pollution and Disease Prevention Project	USDA	2004	TBD	15,000,000	0		3.A.5		223	
Sub-Goal 3.B FLOOD PROTECTION COMPATIBLE WITH ECOSYSTEM RESTORATION												
3.B.1		FLOOD PROTECTION COMPATIBLE WITH ECOSYSTEM RESTORATION PROJECTS										
	3600	C-4 Flood Mitigation Projects	SFWM D	2001	2004	11,900,000	50,000		3.B.1		224	
	1300	Canal 111	USACE/SFWM D	1994	2008	Footnote 1	Footnote 1		1.A.3	3.B.1	45	
Sub-Goal 3.C PROVIDE SUFFICIENT WATER RESOURCES FOR BUILT AND NATURAL SYSTEMS												
3.C.1		WATER RESOURCE DEVELOPMENT PROJECTS							MG			
	3700	Kissimmee Basin Water Supply Plan	SFWM D	2003	2008	4,615,000	815,000	71.2	3.C.1		226	
	3701	Lower East Coast Water Supply Plan	SFWM D	2000	2008	10,227,000	732,000	154.7	3.C.1		227	

Data as of October 1, 2005

2005 INTEGRATED FINANCIAL PLAN SUMMARY TABLE												
Goals Column 1	SP Project Number Column 2	Project Name Column 3	Lead Agency Column 4	Start Column 5	End Column 6	Financial Requirement Column 7	Appropriated to Date Column 8	Measurable Outputs Column 9	Primary Objective Column 10	Sec Obje	Page #	
	3702	Lower West Coast Water Supply Plan	SFWMD	2004	2008	8,792,000	1,582,000	189.6	3.C.1		228	
	3703	Upper East Coast Water Supply Plan	SFWMD	2004	2008	3,731,000	1,024,000	63	3.C.1		229	
3.C.2		INCREASE VOLUME OF WATER RESOURCE PROJECTS							MGD			
	3800	C&SF:CERP-South Miami-Dade County Reuse (CERP Project # WBS 98)	USACE/M-DADE	2013	2025	419,858,000	0	131	3.C.2		230	
	3801	C&SF:CERP-West Miami-Dade County Reuse (CERP Project # WBS 97)	USACE/M-DADE	2013	2025	505,325,000	0	100	3.C.2		231	
	3802	C&SF:CERP Wastewater Reuse Technology Pilot Project (CERP Project # WBS 37)	USACE/SFWMD	2001	2013	27,700,000	1,772,000		3.C.2	2.A.3	232	
	3803	Lower West Coast Regional Irrigation Distribution System Master Plan Study	SFWMD	2004	2008	Included in Project #3702	500,000		3.C.2		233	
	3804	Northern Palm Beach County and Southern Martin County Reclaimed Water Master Plan	SFWMD	2002	TBD	Included in Project #3701	140,000		3.C.2		234	
	3805	Orlando/Kissimmee Area Regional Reclaimed Water Optimization Plan	SFWMD	2002	2004	Included in Project #3700	180,000		3.C.2		235	
	2301	C&SF: CERP Winsburg Farms Wetland Restoration (CERP Project # WBS 91)	PBCo.	1999	2003	Footnote 1	Footnote 1		2.A.3	3.C.2	186	
3.C.3		ALTERNATIVE WATER SUPPLY PROJECTS							MGD			
	3900	Alternative Water Supply Grant	SFWMD	1996	TBD	Footnote 1	45,056,000	200	3.C.3		236	
		OTHER BUILT AND NATURAL SYSTEM COMPATIBILITY PROJECTS										
	4101	BMPs for Agriculture	NRCS	1997	2011	141,203,000	53,656,000				237	
	4102	Monitoring of Organic Soils in the Everglades	NRCS	1998	2017	1,236,000	36,000				238	

Data as of October 1, 2005

2005 INTEGRATED FINANCIAL PLAN SUMMARY TABLE											
Goals Column 1	SP Project Number Column 2	Project Name Column 3	Lead Agency Column 4	Start Column 5	End Column 6	Financial Requirement Column 7	Appropriated to Date Column 8	Measurable Outputs Column 9	Primary Objective Column 10	Sec Obje	Page #
	4103	Soil Survey Update for the Everglades Agricultural Area	NRCS	2004	2008	1,500,000	0				239
	4104	Soil Survey Update for the Everglades National Park, Big Cypress National Preserve and Water Conservation Areas	NRCS	2005	2010	5,600,000	0				240
		Completed Projects									
	2110	Cayo Costa	FDEP	1980	2004	28,337,346	28,337,346	1,954	2.A.1		243
	2113	Corkscrew Regional Mitigation Bank	SFWMD	1995	1999	2,600,000	2,600,000	633	2.A.1		244
	2116	Dupuis Reserve	SFWMD	1985	1986	23,016,601	23,016,601	21,875	2.A.1		245
	1305	Kissimmee Prairie	FDEP	1996	1997	21,953,790	21,953,790	38,282	2.A.1		246
	2130	Lake Walk-In-Water	SFWMD	1995	1998	3,950,000	3,950,000	4,009	2.A.1		247
	2131	Loxahatchee River Land Acquisition	SFWMD	1984	2001	13,074,703	13,074,703	1,936	2.A.1		248
	2137	Nicodemus Slough	SFWMD	1981	1988	1,894,501	1,894,501	2,231	2.A.1		249
	2153	South Fork St. Lucie River Land Acquisition	SFWMD	1995	1995	2,480,000	2,480,000	184	2.A.1		250
	2180	Ten Mile Creek	SFWMD	1990	2004	5,332,000	5,332,000	913	2.A.1		41
	2157	Tibet-Butler Preserve	SFWMD	1988	1999	3,601,900	3,601,900	439	2.A.1		251
	2161	Yamato Scrub	FDEP	1992	1996	25,932,850	25,932,850	207	2.A.1		252
		STA 1 E (See project ID1513)	SFWMD			46,000,000	46,000,000	6503	2.A.1		
	1406	Critical Projects East Coast Canal Structures (C-4)	USACE/SFWMD	1999	2003	3,683,000	3,683,000				253
	1428	Indian River Lagoon Restoration Feasibility Study	USACE/SFWMD	1996	2002	6,150,000	6,150,000				254
	1708	Lake Okeechobee Sediment Removal Feasibility Study and Pilot Project	SFWMD	2000	2003	955,069	955,069				255

Data as of October 1, 2005

2005 INTEGRATED FINANCIAL PLAN SUMMARY TABLE											
Goals Column 1	SP Project Number Column 2	Project Name Column 3	Lead Agency Column 4	Start Column 5	End Column 6	Financial Requirement Column 7	Appropriated to Date Column 8	Measurable Outputs Column 9	Primary Objective Column 10	Sec Obje Column 11	Page #
	1709	Lake Okeechobee Tributary Sediment Removal Pilot Project	SFWMD	2000	2004	440,000	440,000				256
	4100	Critical Project Keys Carrying Capacity Study	FDCA/USACE	1997	2003	6,000,000	6,000,000				257

Project specific footnotes:

The following information is project specific and is provided in reference to it's appearance as a numbered notation on the project summary table:

¹This is a multiple objective project, funding is listed in other objective.

²Available funding through project completion is not provided on the project sheet, due to the uncertainty of the annual Federal and State appropriations process. For the purposes of calculating Goal subtotals for all projects, only the dollars appropriated to date have been used for this project.

³Consistent with authorizing Big Cypress legislation.

⁴The cost information for this project reflects the adjusted total cost information provided on the project sheet.

Project change notations from the 2004 edition:

The following projects from the 2004 Edition have been deleted or merged in the 2005 update of the Project Summary Table and IFP:

1103 C&SF: CERP Everglades Agricultural Storage Reservoir Phase II (GP2) (CERP Project # WBS 09) combined with 1102

1108 C&SF:CERP Bird Drive Recharge Area (U) (CERP Project # WBS 43) combined with 1415

1434 C&SF: CERP – Flows to Eastern Water Conservation Area (EEE) (CERP Project # WBS 23) new project

1435 C&SF: CERP- C-4 Control Structures (T) (CERP Project # WBS 46) new project

* projects not updated

**STRATEGIC GOALS AND OBJECTIVES
OF THE SOUTH FLORIDA ECOSYSTEM RESTORATION TASK FORCE**

GOAL 1: GET THE WATER RIGHT

Subgoal 1-A: Get the hydrology right

- Objective 1-A.1: Provide 1.3 million acre-feet of surface water storage by 2036
- Objective 1-A.2: Develop aquifer storage and recovery (ASR) systems capable of storing 1.6 billion gallons per day by 2028
- Objective 1-A.3: Modify 335 miles of impediments to flow by 2019

Subgoal 1-B: Get the water quality right

- Objective 1-B.1: Construct 69,000 acres of stormwater treatment areas by 2035
- Objective 1-B.2: Prepare plans, with strategies and schedules for implementation, to comply with total maximum daily loads for 100 percent of impaired water bodies by 2011

GOAL 2: RESTORE, PRESERVE, AND PROTECT NATURAL HABITATS & SPECIES

Subgoal 2-A: Restore, preserve, and protect natural habitats

- Objective 2-A.1: Complete acquisition of 5.8 million acres of land identified for habitat protection by 2015.
- Objective 2-A.2: Protect 20 percent of the coral reefs by 2010
- Objective 2-A.3: Improve habitat quality for 2.4 million acres of natural areas in South Florida

Subgoal 2-B: Control invasive exotic plants

- Objective 2-B.1: Coordinate the development of management plans for the top twenty South Florida invasive exotic plant species by 2011
- Objective 2-B.2: Achieve maintenance control of Brazilian pepper, melaleuca, Australian pine, and Old World Climbing Fern on South Florida's public conservation lands by 2020
- Objective 2-B.3: Complete an invasive exotic plant species prevention, early detection, and eradication plan by 2005

GOAL 3: FOSTER COMPATIBILITY OF THE BUILT AND NATURAL SYSTEMS

Subgoal 3-A: Use and manage land in a manner compatible with ecosystem restoration

- Objective 3-A.1: Designate or acquire an additional 480,000 acres as part of the Florida Greenways and Trails System by 2008
- Objective 3-A.2: Increase participation in the Voluntary Farm Bill Conservation Programs by 230,000 acres by 2014
- Objective 3-A.3: Acquire an additional 2,500 acres of park, recreation, and open space lands by 2005
- Objective 3-A.4: Complete five brownfield rehabilitation and redevelopment projects by 2006
- Objective 3-A.5: Increase community understanding of ecosystem restoration

Subgoal 3-B: Maintain or improve flood protection in a manner compatible with ecosystem restoration

- Objective 3-B.1: Maintain or improve existing levels of flood protection

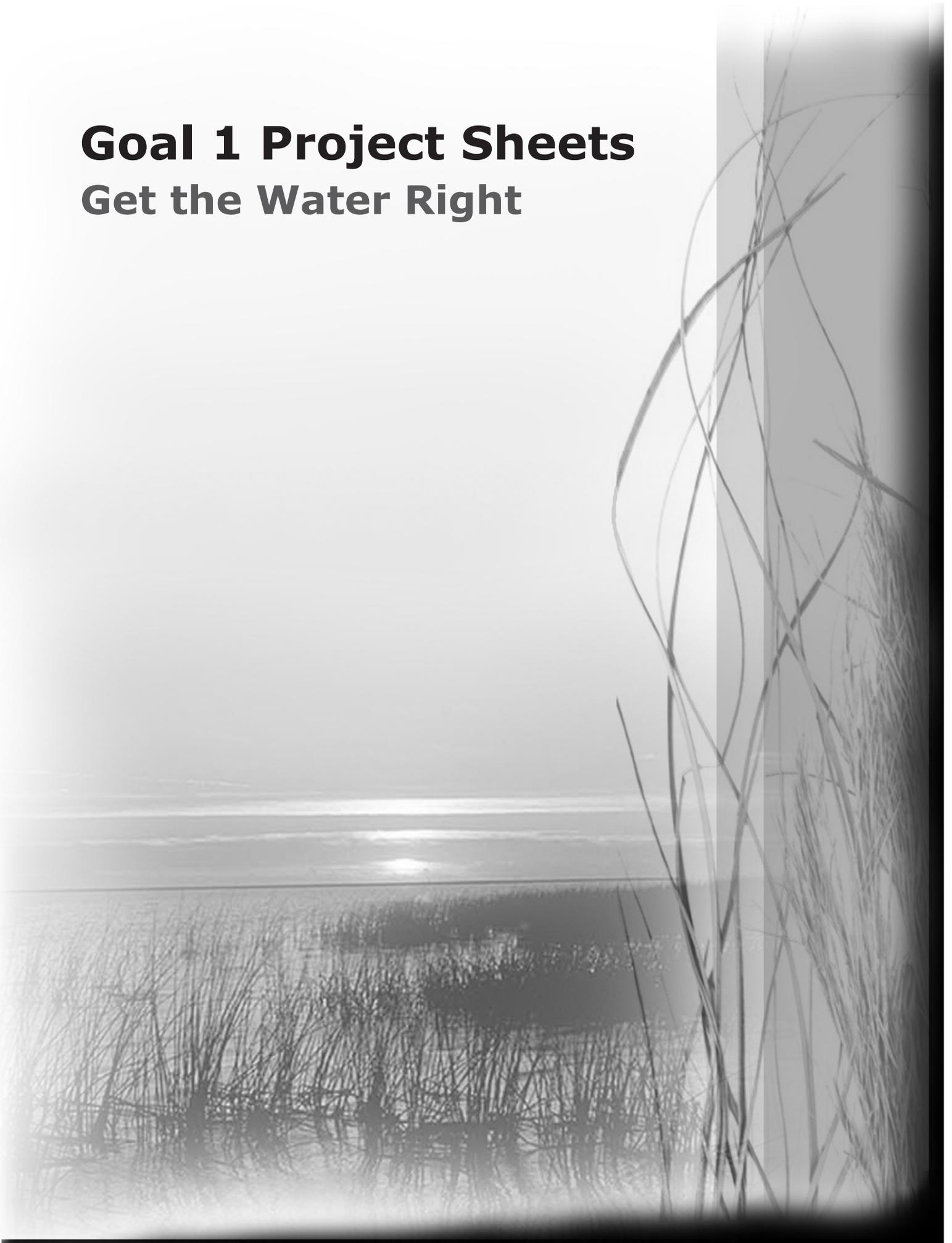
Subgoal 3-C: Provide sufficient water resources for built and natural systems

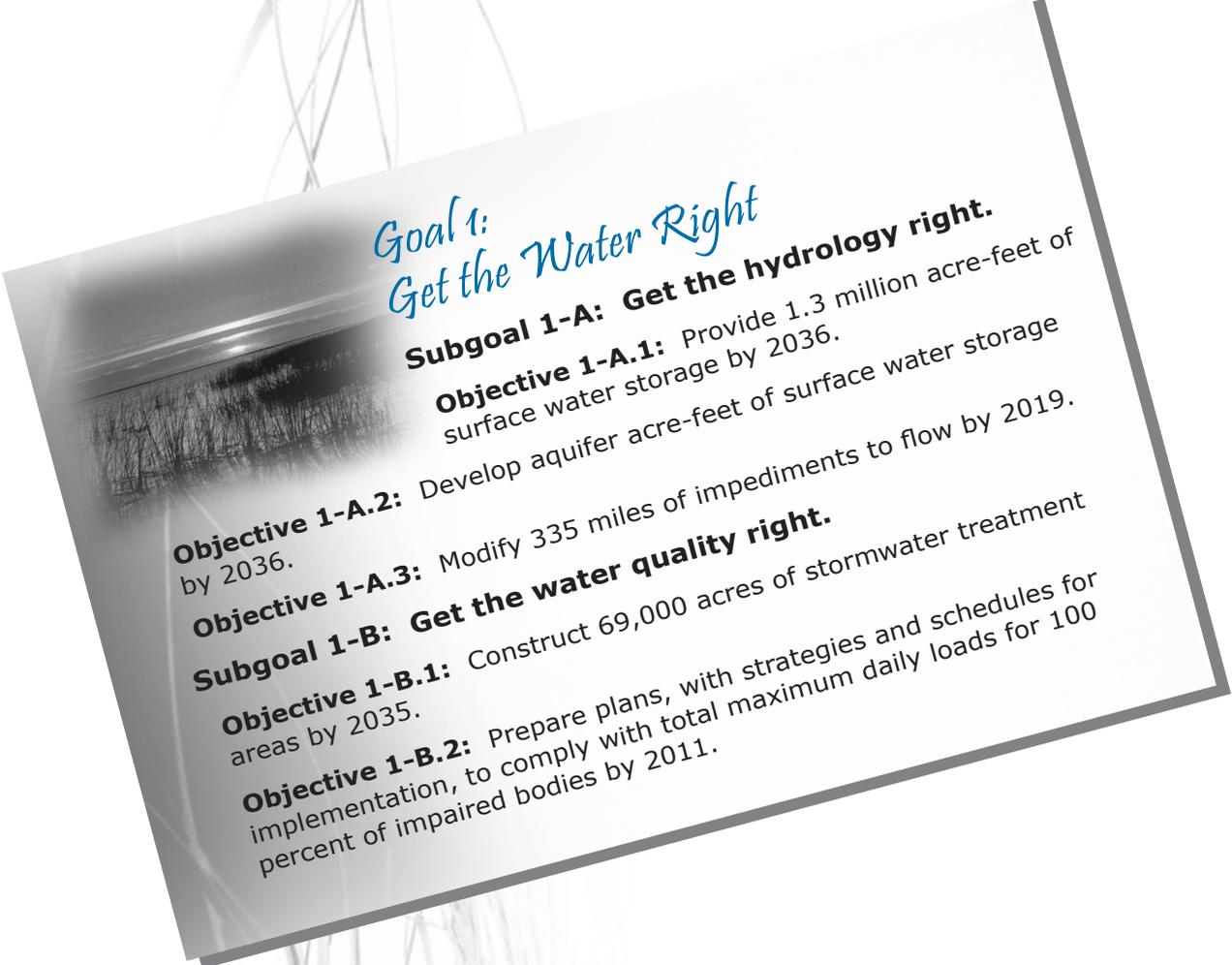
- Objective 3-C.1: Increase the water available by target of 478.5 million gallons per day by 2008
- Objective 3-C.2: Increase volumes of reuse on a regional basis
- Objective 3-C.3: Increase water made available through the SFWMD Alternative Water Supply Development Program

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Goal 1 Project Sheets

Get the Water Right





Goal 1:
Get the Water Right

Subgoal 1-A: Get the hydrology right.

Objective 1-A.1: Provide 1.3 million acre-feet of surface water storage by 2036.

Objective 1-A.2: Develop aquifer acre-feet of surface water storage by 2036.

Objective 1-A.3: Modify 335 miles of impediments to flow by 2019.

Subgoal 1-B: Get the water quality right.

Objective 1-B.1: Construct 69,000 acres of stormwater treatment areas by 2035.

Objective 1-B.2: Prepare plans, with strategies and schedules for implementation, to comply with total maximum daily loads for 100 percent of impaired bodies by 2011.

Program Name: Infrastructure
Project Name: C&SF: CERP – Indian River Lagoon South - C-23/C-24/C-25/Northfork and Southfork Storage Reservoirs (UU) and C-44 Basin Storage Reservoir (B)
Project ID: 1101 (CERP Project # WBS 07)
Lead Agency: USACE / SFWMD
Authority: C-44 initially authorized in WRDA 2000; other components not authorized
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: 1.A.1

Measurable Output(s): Reservoir storage, natural storage, structures, improved hydrology, water quality treatment, muck removal, habitat restoration, water supply

Project Synopsis: The C-23/C-24/C-25 North Fork and South Fork Storage Reservoirs and the C-44 Basin Storage Reservoir are components of the Indian River Lagoon – South project. Overall, the project, as detailed in the Project Implementation Report, includes building and operating approximately 12,000 acres of new inland reservoirs, approximately 9,000 acres of new stormwater treatment areas, restoring hydrology on about 90,000 acres of lands in the watershed, and improving freshwater flows to 3,100 acres of floodplain wetlands in the North Fork of the St. Lucie River. The plan also includes building pumps, levees, canals, and other structures to operate and interconnect project features and provide a mechanism for re-directing freshwater discharges to the North Fork of the St. Lucie River; and muck removal and habitat restoration actions within the estuaries. These features would significantly reduce harmful discharges into the receiving waters, provide water quality treatment, provide water storage in the natural system, and provide an additional source of agricultural water supply, while maintaining current Central and Southern Florida Project purposes.

The final Project Implementation Report (PIR) was completed in March 2004, and the Chief of Engineers signed the report in August 2004. The SFWMD, through its Acceler8 initiative, is advancing the design and construction of the C-44 Storage Reservoir.

Cost: \$1,262,709,000

Project Schedule:

C-44 Reservoir (B) construction is scheduled to be completed in 2009.
 C-23/24/25 Reservoirs (UU) construction is scheduled to be completed in Band 2 (2010 – 2015).
 Natural Areas/Muck Remediation construction is scheduled to be completed in Band 4 (2020 – 2025).

C-44 Reservoir (B)	2004	2005	2006	2007	2008	2009	2010
Planning & Design							
Real Estate							
Construction							

C-23 /24, North & South (UU P1)	2004	2005	2006	2007	2008	2009	2010
Planning & Design							
Real Estate							
Construction							

C-25 Reservoir (UU P2)	2009	2010	2011	2012	2013	2014
Plans & Specs						
Real Estate						
Construction						

Cypress Creek	2014	2015	2016	2017	2018	2019
Plans & Specs						
Real Estate						
Construction						

Palmar	2014	2015	2016	2017	2018	2019	2020
Plans & Specs							
Real Estate							
Construction							

Muck Remediation	2014	2015	2016	2017	2018	2019	2020	2021
Plans & Specs								
Real Estate								
Construction								

Allapattah	2014	2015	2016	2017	2018	2019	2020	2021	2022
Plans & Specs									
Real Estate									
Construction									

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	2009	Balance to Complete 2010-2022	Total
USACE	3,087	62,827	62,827	62,827	62,827	62,827	314,134	631,354
SFWMD	1,388	62,997	62,997	62,997	62,997	62,997	314,983	631,354
Total	4,475	125,823	125,823	125,823	125,823	125,823	629,117	1,262,709

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_07_irl_south.cfm

Contact: David Tipple, Chief North/Central Florida Restoration Branch, USACE
(904) 232-1375, David.A.Tipple@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.
Project 1101 Page 2 of 2

Program Name: Infrastructure
Project Name: C&SF: CERP - Everglades Agricultural Area (EAA) Storage Reservoirs (G)
Project ID: 1102 (CERP Project # WBS 08) and 1103 (CERP Project # WBS 09)
Lead Agency: USACE / SFWMD
Authority: Phase 1 initially authorized in WRDA 2000; Phase 2 not authorized
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: 1.A.1

Measurable Output(s): 360,000 ac-ft surface storage

Project Synopsis: Phase 1 includes two aboveground reservoirs with a total storage capacity of approximately 240,000 acre-feet located on land associated with the Talisman Land acquisition in the EAA. Conveyance capacity increases for the Miami, North New River, Bolles, and Cross Canals are also included in the design of the project. The initial design for the reservoir(s) assumed 40,000 acres, divided into two equally sized compartments with water levels fluctuating up to six feet above grade in each compartment. Phase 2 includes an aboveground reservoir with a total storage capacity of approximately 120,000 acre-feet located in the EAA in western Palm Beach County. The initial design for the reservoir assumed 20,000 acres, which would make up the third storage compartment of the EAA reservoir, with water levels fluctuating up to six feet above grade. However, the land acquired through the Farm Bill land acquisition agreements encompassed 50,000 acres. The Project Implementation Report (PIR) is addressing maximum use of the existing land acquired through Farm Bill funds. This project will improve timing of environmental deliveries to the Water Conservation Areas (WCAs) by reducing damaging flood releases from the EAA to the WCAs, reducing Lake Okeechobee regulatory releases to estuaries, meeting supplemental agricultural irrigation demands, and increasing flood protection within the EAA.

A draft PIR has been completed. The SFWMD, through its Acceler8 initiative, is advancing the design and construction of Part 1 of Phase 1. The balance would be constructed by the Corps.

Cost: \$512,186,000 (Phase 1 and 2)

Project Schedule:

Phase 1, Part 1 construction is scheduled to be completed in 2009.
 Phase 1, Part 2 and Phase 2 construction is scheduled to be completed in Band 2 (2010 – 2015).

Phase 1, Part 1	2002	2003	2004	2005	2006	2007	2008	2009
PIR/ Plans & Specs								
Real Estate								
Construction								

Phase 1, Part 2	2007	2008	2009	2010	2011	2012
Plans & Specs						
Construction						

Phase 2	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Plans & Specs										
Real Estate										
Construction										

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	Balance to Complete 2009-2015	Total
USACE	4,568	12,576	12,576	12,576	12,576	201,220	256,093
SFWMD	3,156	12,647	12,647	12,647	12,647	202,350	256,093
Total	7,724	25,223	25,223	25,223	25,223	403,570	512,186

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_08_eaa_phase_1.cfm

Contact: David Tipple, Chief North/Central Florida Restoration Branch, USACE
 (904) 232-1375, David.A.Tipple@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP - Lake Okeechobee Watershed (A, W, OPE)
Project ID: 1104 (CERP Project # WBS 01)
Lead Agency: USACE / SFWMD
Authority: Component W initially authorized in WRDA 2000; other components not authorized
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: **Primary:** 1.A.1, Other **Secondary:** 1.B.1, 2.A.3

Measurable Output(s): 200,000 ac-ft. reservoir and 2,500 acres STA
50,000 ac-ft reservoir and 5,000 acres STA
4,375 acres reservoir-assisted STA
Restoration of 3,500 acres of wetlands
Removal of 150 tons of phosphorous from 10 miles of primary canals
Balance fish and wildlife benefits with long-term management

Project Synopsis: The Lake Okeechobee Watershed project consists of four separable components: North of Lake Okeechobee Storage Reservoir; Taylor Creek/Nubbin Slough Storage and Treatment Area; Lake Okeechobee Watershed Water Quality Treatment Facilities; and Lake Okeechobee Tributary Sediment Dredging. These components were combined for an opportunity to generate a more efficient design of the components and address the interdependencies and tradeoffs between the components. In August 2003, the Lake Istokpoga Regulation Schedule was added to the project.

- a) **North of Lake Okeechobee Storage Reservoir (A)** - This feature includes an aboveground reservoir and a 2,500-acre stormwater treatment area. The total storage capacity of the reservoir is approximately 200,000 acre-feet and is located in the Kissimmee River Region, north of Lake Okeechobee. The specific location of this facility has not been identified, however, it is anticipated that the facility will be located in Glades, Highlands, or Okeechobee Counties. The initial design of this feature assumed a 20,000-acre facility (17,500-acre reservoir and 2,500-acre treatment area) with water levels in the reservoir fluctuating up to 11.5 feet above grade. The final size, depth and configuration of this facility will be determined through more detailed planning, land suitability analyses, and design. Future detailed planning and design activities will also include an evaluation of degraded water bodies within the watersheds of the storage/treatment facility to determine appropriate pollution load reduction targets, and other water quality restoration targets for the watershed.
- b) **Taylor Creek/Nubbin Slough Storage and Treatment Area (W)** - This feature includes an aboveground reservoir with a total storage capacity of approximately 50,000 acre-feet and a stormwater treatment area with a capacity of approximately 20,000 acre-feet in the Taylor Creek/Nubbin Slough Basin. The initial design of this feature assumed a reservoir of 5,000 acres with water levels fluctuating up to 10 feet above grade and a stormwater treatment facility of approximately 5,000 acres. The final size, depth and configuration of this feature will be determined through more detailed planning, land suitability analysis and design.
- c) **Lake Okeechobee Watershed Water Quality Treatment Facilities (LOWQTF)** - This feature includes two reservoir-assisted stormwater treatment areas and plugging of select local drainage ditches. The initial design of these reservoir-assisted stormwater treatment areas assumes a 1,775-acre facility in the S-154 Basin in Okeechobee County and a 2,600-acre facility in the S-65D sub-basin of the Kissimmee River Basin in Highlands and Okeechobee Counties. The plugged drainage ditches will result in restoration of approximately 3,500 acres of wetlands throughout the Lake Okeechobee watershed basin. This feature is also consistent with the recommendations of the South Florida Ecosystem Restoration Working Group's Lake Okeechobee Issue Team for achieving water quality restoration objectives in the Lake and should provide significant long-term water quality benefits for the Lake.
- d) **Lake Okeechobee Tributary Sediment Dredging (LOTSD)** - This feature includes the dredging of sediments from 10 miles of primary canals within an 8-basin area in the northern watershed of Lake Okeechobee. The initial design assumes that the dredged material will contain approximately 150 tons of phosphorus.

- e) **Lake Istokpoga Regulation Schedule (LIRS)** - This feature includes development of a plan to address water resource problems in the Lake Istokpoga Basin. Lake Istokpoga is a natural lake located in Highlands County, a tributary of Lake Okeechobee and the Kissimmee River. The major focus of this plan is to create a balance between the environmental needs, water supply and flood control in the Lake Istokpoga drainage basin and to examine the Lake Istokpoga Basin with a purpose of restoring fish and wildlife and developing a long-term comprehensive management plan.

Cost: \$556,374,000

Project Schedule:

LIRS construction is scheduled to be completed in 2008.
LOTSD, LOWQTF, A, W construction is scheduled to be completed in Band 2 (2010 – 2015).

LIRS	2004	2005	2006	2007	2008
Implement Regulation Schedule					

Taylor Creek/Nubbin Slough (W)	2005	2006	2007	2008	2009	2010	2011	2012
Plans & Specs								
Real Estate								
Construction								

A, LOWQTF, LOTSD	2005	2006	2007	2008	2009	2010	2011	2012	2013
Plans & Specs									
Real Estate									
Construction									

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	Balance to complete 2009-2013	Total
USACE	5,435	13,638	13,638	13,638	13,638	218,202	278,187
SFWMD	3,895	13,715	13,715	13,715	13,715	219,434	278,187
Total	9,330	27,352	27,352	27,352	27,352	437,635	556,374

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_01_lake_o_watershed.cfm

Contact: David Tipple, Chief North/Central Florida Restoration Branch, USACE
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Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP - North Lake Belt Storage Area (XX P2)
Project ID: 1105 (CERP Project # WBS 25)
Lead Agency: USACE / SFWMD
Authority: Not authorized
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: 1.A.1

Measurable Output(s): 90,000 ac-ft. reservoir / Water control structures, levee modifications

Project Synopsis: This feature includes canals, pumps, water control structures, and an in-ground storage reservoir with a total capacity of approximately 90,000 acre-feet located in Miami-Dade County. The initial design of the reservoir assumed 4,500 acres with the water level fluctuating from ground level to 20 feet below grade. A subterranean seepage barrier will be constructed around the perimeter to enable draw down during dry periods, to prevent seepage losses, and to prevent water quality impact due to the high transmissivity of the Biscayne Aquifer in the area. The reservoir will be located within an area proposed for rock mining. A pilot test of this component will be conducted prior to final design to determine construction technologies, storage efficiencies, impacts upon local hydrology, and water quality effects. The water quality assessment will include a determination as to whether the in-ground reservoir with perimeter seepage barrier will allow storage of untreated runoff without concerns of groundwater contamination.

Cost: \$298,852,000

Project Schedule:

Phase 1 construction is scheduled to be completed in Band 5 (2025 – 2030).

Phase 2 construction is scheduled to be completed in Band 7 (2035 – 2040).

Phase I	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
PIR/Plans & Specs											
Real Estate											
Construction											

Phase II	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Plans & Specs											
Real Estate											
Construction											

Detailed Project Budget Information (\$1000)

	2017	2018	2019	2020	2021	2022	Balance to Complete 2023-2035	Total
USACE	7,471	7,471	7,471	7,471	7,471	7,471	104,598	149,426
SFWMD	7,471	7,471	7,471	7,471	7,471	7,471	104,598	149,426
Total	14,943	14,943	14,943	14,943	14,943	14,943	209,196	298,852

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_25_north_lake_belt.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Project 1105 Page 2 of 2

Program Name: Infrastructure
Project Name: C&SF: CERP - Palm Beach Co. Agricultural Reserve Reservoir & ASR (VV)
Project ID: 1106 (CERP Project # WBS 20 and 21)
Lead Agency: USACE / SFWMD
Authority: Not authorized
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: 1.A.1 **Secondary:** 1.A.2

Measurable Output(s): 20,000 ac-ft. reservoir
75 mgd of ASR wells

Project Synopsis: Part 1 of this project includes an aboveground reservoir with a total storage capacity of approximately 20,000 acre-feet located in the western portion of the Palm Beach County Agricultural Reserve. Part 2 includes aquifer storage and recovery (ASR) wells with a capacity of 75 million gallons per day and associated pre- and post- water quality treatment facilities located adjacent to the reservoir. The initial design for the reservoir assumed 1,660 acres with water levels fluctuating up to 12 feet above grade. The final size, depth and configuration of these facilities will be determined through more detailed planning and design. The initial design of the wells assumed 15 well clusters, each with a capacity of five million gallons per day as well as chlorination for pre-treatment and aeration for post-treatment. The source of water to be injected is surficial ground water adjacent to the reservoir. The level and extent of treatment and number of the ASR wells may be modified based on findings from a proposed ASR pilot project.

	<u>Total</u>	<u>Part 1</u>	<u>Part 2</u>
Cost:	\$149,089,000	\$100,720,000	\$48,369,000

Project Schedule:

Reservoir (Part 1) construction is scheduled to be completed in Band 3 (2015 – 2020).
ASR (Part 2) construction is scheduled to be completed in Band 3 (2015 – 2020).

Reservoir (Part 1)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
PIR/Plans & Specs											
Real Estate											
Construction											

ASR (Part 2)	2010	2011	2012	2013	2014	2015	2016	2017	2018
PIR/Plans & Specs									
Construction									

Detailed Project Budget Information (\$1000)

Reservoir (Part 1)	Thru 2004	2006	2007	2008	2009	Balance to Complete 2010-2016	Total
USACE	0	2,518	2,518	7,554	7,554	30,216	50,360
SFWMD	1,377	2,449	2,449	7,347	7,347	29,390	50,360
Total	1,377	4,967	4,967	14,901	14,901	59,606	100,720

Detailed Project Budget Information (\$1000)

ASR (Part 2)	2010	2011	2012	2013	2014	Balance to Complete 2015-2018	Total
USACE	1,209	1,209	1,209	1,209	1,209	18,138	24,184
SFWMD	1,209	1,209	1,209	1,209	1,209	18,138	24,185
Total	2,418	2,418	2,418	2,418	2,418	36,276	48,369

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_20_pbc_asr_1.cfm

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_21_pbc_asr_2.cfm

Contact: David Tipple, Chief North/Central Florida Restoration Branch, USACE
(904) 232-1375, David.A.Tipple@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Project 1106 Page 2 of 2

Detailed Project Budget Information (\$1000)

Phase I	Thru 2004	2005	2006	2007	2008	2009	Total
USACE	679	1,152	5,762	4,610	5,762	5,762	23,728
SFWMD	438	1,165	5,823	4,658	5,823	5,823	23,728
Total	1,117	2,317	11,585	9,268	11,585	11,585	47,456

Phase II	Thru 2004	2014	2015	2016	2017	2018	2019	2020	Total
USACE	0	2,560	2,560	2,560	7,680	7,680	12,800	15,359	51,198
SFWMD	540	2,533	2,533	2,533	7,599	7,599	12,665	15,197	51,198
Total	540	5,093	5,093	5,093	15,278	15,278	25,464	30,557	102,396

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_40_site_1_impoundment.cfm

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_22_hillsboro_asr_2.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
 (904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	2009	Balance to Complete 2010-2019	Total
USACE	2,852	25,463	25,463	25,463	25,463	25,463	127,314	257,480
SFWMD	1,995	25,549	25,549	25,549	25,549	25,549	127,743	257,481
Total	4,847	51,011	51,011	51,011	51,011	51,011	255,057	514,961

*Expenditures for Storage Reservoir (Part 1) only.

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_04_c43_basin_1.cfm

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_05_c43_asr_2.cfm

Contact: David Tipple, Chief North/Central Florida Restoration Branch, USACE
 (904) 232-1375, David.A.Tipple@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Project 1109 Page 2 of 2

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_26_central_lake_belt.cfm

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Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Project 1110 Page 2 of 2

Program Name: Land Acquisition & Infrastructure
Project Name: E&SF: Critical Projects – Ten Mile Creek
Project ID: 1111
Lead Agency: USACE / SFWMD
Authority: WRDA 1996
Funding Source: N/A - Complete

Strategic Plan Goal(s) Addressed: Primary: 1.A.1 **Secondary:** 2.A.3

Measurable Output(s): Water preserve area and polishing cell, 2,740 acres enhanced by project, 5,000 acre feet of storage provided on 550 acres of land.

Project Synopsis: This project consists of the acquisition of approximately 1,559 acres of land in the eastern portion of the Ten Mile Creek Basin and the construction of an aboveground impoundment for stormwater detention purposes on this property. It also includes construction of a pump station and several control structures for circulation and discharge within the project. A constructed wetland or flow-through marsh has been added for additional water quality improvement purposes. The construction of a water preserve area and polishing cell will attenuate flows and improve water quality discharge into St. Lucie Estuary. Construction is complete.

Cost: \$38,058,000

Project Schedule:

Start Date: 1997
 Finish Date: 2005

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Design									
Real Estate									
Construction									

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	Total
USACE	8,857	10,171	19,028
SFWMD	9,912	9,118	19,030
Total	18,769	19,289	38,058

Contact: David Tipple, Chief North/Central Florida Restoration Branch, USACE
 (904) 232-1375, David.A.Tipple@saj02.usace.army.mil

Program Name: Infrastructure
Project Name: C&SF: CERP – North Palm Beach County – Part 2 (LL, K Pt2)
Project ID: 1200 (CERP Project # WBS 18)
Lead Agency: USACE / SFWMD
Authority: Not authorized
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: 1.A.2

Measurable Output(s): 170 mgd of ASR wells

Project Synopsis: This feature includes a series of aquifer storage and recovery wells with a capacity of 170 million gallons per day as well as associated pre- and post- water quality treatment to be constructed along the C-51 Canal in Palm Beach County. The initial design of the wells assumed 34 well clusters, each with a capacity of 5 million gallons per day with chlorination for pre-treatment and aeration for post-treatment. The level and extent of treatment and number of the aquifer storage and recovery wells may be modified based on findings from an ongoing aquifer storage and recovery pilot project.

Cost: \$198,847,000

Project Schedule:

Project is scheduled to complete construction in Band 3 (2015-2020).

L-8 Basin (K Pt2)	2009	2010	2011	2012	2013	2014	2015	2016	2017
PIR/Plans and Specs									
Real Estate									
Construction									

C-51 (LL)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
PIR/Plans and Specs										
Real Estate										
Construction										

Detailed Project Budget Information (\$1000)

	2009	2010	2011	2012	2013	2014	Balance to Complete 2015-2019	Total
USACE	1,988	2,983	4,971	14,914	14,914	14,914	44,741	99,424
SFWMD	1,988	2,983	4,971	14,913	14,913	14,913	44,740	99,423
Total	3,977	5,965	9,942	29,827	29,827	29,827	89,481	198,847

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_18_npbc_2.cfm

Contact: David Tipple, Chief North/Central Florida Restoration Branch, USACE
(904) 232-1375, David.A.Tipple@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP - Lake Okeechobee Aquifer Storage and Recovery (GG)
Project ID: 1201 (CERP Project # WBS 03)
Lead Agency: USACE / SFWMD
Authority: Not authorized
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: 1.A.2

Measurable Output(s): 1 bgd of ASR wells

Project Synopsis: This feature includes a series of aquifer storage and recovery wells adjacent to Lake Okeechobee with a capacity of one billion gallons per day and associated pre- and post- water quality treatment in Glades and Okeechobee Counties. The initial design assumes 200 wells, each with the capacity of five million gallons per day with eight ultrafiltration water quality pre-treatment facilities and aeration for post-treatment. Based on information for existing aquifer storage and recovery facilities, it is assumed that recovery of aquifer-stored water would have no adverse effects on water quality conditions in Lake Okeechobee. In fact, some level of nutrient load reduction may occur as a result of aquifer storage, which would be a long-term benefit to in-lake water quality conditions. The level and extent of treatment and number of the aquifer storage and recovery wells may be modified based on findings from an ongoing aquifer storage and recovery pilot project.

Cost: \$1,223,431,000

Project Schedule:

Phase 1 construction is scheduled to be completed in Band 3 (2015 – 2020).
 Phase 2 construction is scheduled to be completed in Band 4 (2020 – 2025).
 Phase 3 construction is scheduled to be completed in Band 5 (2025 – 2030).

Phase 1	2010	2011	2012	2013	2014	2015	2016	2017	2018
PIR (all phases)									
Plans & Specs									
Real Estate (all phases)									
Construction									

Phase 2	2018	2019	2020	2021	2022	2023
Plans & Specs						
Construction						

Phase 3	2023	2024	2025	2026	2027
Plans & Specs					
Construction					

Detailed Project Budget Information (\$1,000)

	2010	2011	2012	2013	2014	2015	Balance to Complete 2016-2027	Total
USACE	24,469	30,586	36,703	61,172	91,757	91,757	275,272	611,716
SFWMD	24,469	30,586	36,703	61,172	91,757	91,757	275,272	611,716
Total	48,937	61,172	73,406	122,343	183,515	183,515	550,544	1,223,431

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_03_lake_o_asr.cfm

Contact: David Tipple, Chief North/Central Florida Restoration Branch, USACE
(904) 232-1375, David.A.Tipple@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Project 1201 Page 2 of 2

Program Name: Infrastructure
Project Name: C&SF: Canal C-111
Project ID: 1300
Lead Agency: USACE / SFWMD
Authority: FCA 1962 and WRDA 1996
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: 1.A.3

Measurable Output(s): Canals, levees, 5 pump stations, and replacement of an existing bridge

Project Synopsis: The goal of the C-111 project modifications is restoration of the Taylor Slough and eastern panhandle of Everglades National Park (ENP), while maintaining flood protection within the C-111 basin east of L-31N and C-111. Restoring the natural hydroperiods will help restore and maintain natural vegetation communities in these regions of ENP. The detention/retention area will also contribute to improving the water quality of waters delivered to ENP. The project plan consists of both structural and nonstructural modifications to the existing project works within the C-111 basin. Structural components of the plan include: construction or modification of nine canals, construction of an L-31 tieback levee and S-332D tieback levee, removal of existing spoil material along the south side lower C-111, construction of five pump stations, and replacement of an existing bridge over Taylor Slough in ENP. The project requires the acquisition of lands in the Frog Pond; the Rocky Glades Agricultural Area (L-31N lands); and additional lands in the Southern Glades. These modifications will widen the areal extent of water distribution capability, thereby restoring more natural hydrology in 128 square miles of the Taylor Slough and its headwaters in the Rocky Glades.

Cost: \$282,900,000

Project Schedule:

Start Date: 1994
Finish Date: 2008

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Planning & Design											
Real Estate											
Construction											

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	Total
USACE	79,177	15,581	15,581	15,581	15,581	141,500
SFWMD	49,337	23,016	23,016	23,016	23,016	141,400
Total	128,514	38,597	38,597	38,597	38,597	282,900

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_12_wca3_1.cfm

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_47_wca_3a_3b.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Project 1301 Page 2 of 2

Program Name: Infrastructure
Project Name: C&SF: CERP - Florida Keys Tidal Restoration (OPE)
Project ID: 1302(CERP Project # WBS 31)
Lead Agency: USACE / SFWMD
Authority: WRDA 2000 (Programmatic Authority)
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: 1.A.3

Measurable Output(s): Bridges and culverts

Project Synopsis: This project will restore an historic flow way between the Atlantic Ocean and the Gulf of Mexico, which was blocked during the construction of US Highway 1. An existing tidal creek restoration project in the vicinity of the proposed restoration project was fully successful. One tidal creek in the vicinity of Marathon, Florida has been selected for restoration. Culverts will be located and sized to maximize flow and placed under US 1 to allow tidal exchange and flushing. The site of the flow way to be restored is between Fat Deer Key and Long Point Key (MM56). Monitoring of water quality, benthic community composition, and sediment particle size will be performed before construction and 0.5 and 1 year after construction. Additional tidal flow way restoration projects will be identified in the future based upon results of this initial restoration project.

Cost: \$3,874,600

Project Schedule:

Project is scheduled to complete construction in Band 2 (2010 – 2015).

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
PIR/Plans & Specs										
Real Estate										
Construction										

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	2009	2010	Total
USACE	833	0	190	229	229	229	229	1,937
SFWMD	276	54	61	387	387	387	387	1,937
Total	1,109	54	251	615	615	615	615	3,874

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_31_fl_keys_tidal.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget information based on the *Central and Southern Florida Project Comprehensive Review Study, April 1999* and the updated Project Implementation Report (PIR) cost included in the approved Project Management Plan (PMP). Schedule information based on the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: E&SF: Critical Projects - Southern CREW
Project ID: 1303
Lead Agency: USACE / SFWMD
Authority: WRDA 1996
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: 1.A.3

Measurable Output(s): Structural modifications

Project Synopsis: This project includes removal of canal and road berms, house pads and ditches to allow historic sheetflow to be re-established in the Southern Corkscrew Regional Ecosystem Watershed (CREW).

SFWMD continues to acquire land and construct the project.

Cost: \$33,321,000

Project Schedule:

Start Date: 1999
 Finish Date: 2005

	1999	2000	2001	2002	2003	2004	2005
Design							
Construction							

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	Total
USACE	281	0	281
SFWMD	29,306	3,734	33,040
Total	29,587	3,734	33,321

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
 (904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Program Name: Restoration Program: Hydrological Restoration
Project Name: East WCA-3A Hydropattern Restoration
Project ID: 1304
Lead Agency: South Florida Water Management District
Authority: Florida's Everglades Forever Act

Strategic Plan Goal(s) Addressed: 1.A.3

Measurable Output(s): Improve the volume, timing and distribution of water entering the Everglades

Project Synopsis: This project was modified from the original plan shown in the 1994 Conceptual Design, Everglades Protection Project. The new conceptual design for this project is shown in Part 7 of the 2003 Long-Term Plan and is subject to adjustment following completion of the a recommended alternatives analysis and plan formulation phase. The new conceptual design consists of a 1,500 cfs pump station, a new discharge canal across the FPL transmission line right-of-way, and a new bridge at the canal's crossing of North Levee L-5. This conceptual plan also includes new gated concrete box culverts, L-5 canal enlargement and construction of a spreader canal paralleling L-5. Detailed design and engineering of the final recommended plan would occur in the second half of FY 2009 and the first half of FY 2010. Actual construction of the recommended plan would occur in FY 2011 and 2012.

*** Cost (Estimate):**

Total:	\$ 28,224,966
(1) Project Development:	\$ 2,113,967
Land Acquisition:	\$ -
(2) Implementation:	\$ 24,510,999
Operations and Maintenance:	\$ 400,000 per year after FY 2012

Project Schedule:

Expected Completion Date: October 2012

	FY 1994- FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009 - FY 2016
Project Development						
Land Acquisition						
Implementation						
Operations and Maintenance						

*** Detailed Project Budget Information**

	Actual FY 94-04	Projected FY 2005	Projected FY 2006	Projected FY 2007	Projected FY 2008	Balance to complete	Total
Federal							
State	\$5,344,966	-	-	-	-	\$22,880,000	\$28,224,966
Tribal							
Local							
Other							
Total	\$5,344,966	-	-	-	-	\$22,880,000	\$28,224,966

- **Cost data reflects actual inception-to-date expenditures through September 30, 2004 and current preliminary cost estimate projections.**

- (1) Project Development includes Design Phase [contracts & staff costs] costs.
- (2) Implementation includes all Construction [contracts & contingency] and Construction Management [contracts & staff costs] costs.

Point of Contact: Steve Poonaisingh, (561) 682-2934

Program Name: Infrastructure
Project Name: Kissimmee River, Florida
Project ID: 1306
Lead Agency: USACE / SFWMD
Authority: WRDA 1986,1988, 1992
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: 1.A.3 **Secondary:** 2.A.3

Measurable Output(s): 27,000 acres of floodplain wetlands, 43 miles of contiguous river channel, 40 square miles of the river/floodplain ecosystem; Lower Basin Land Acquisition (SFWMD 68,332 acres), Upper Basin Land Acquisition (SFWMD 36,763 acres).

Project Synopsis: The project includes 3,000 square miles stretching from Orlando to Lake Okeechobee in central Florida and involves the ecosystem restoration of the historic floodplain to reestablish wetland conditions through modifications to the operation of the lakes, modification of Structure 65, enlargement of canals 36 and 37, backfilling of 22 miles of C-38, excavation of about nine miles of new river channel, removal of two water control structures and locks, and land acquisition. The project will restore the ecological integrity of the historical Kissimmee River/floodplain ecosystem by recreating approximately 40 square miles of the river/floodplain ecosystem, including 43 miles of contiguous river channel and 27,000 acres of floodplain wetlands.

Cost: \$571,400,000

Project Schedule:

Start Date: 1994
Finish Date: 2010

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Design																	
Real Estate																	
Construction																	

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	2009	2010	Total
USACE	96,343	43,552	41,659	28,404	28,404	28,404	18,936	285,700
SFWMD	28,698	59,110	56,540	38,550	38,550	38,550	25,700	285,700
Total	125,041	102,663	98,199	66,954	66,954	66,954	44,636	571,400

Contact: David Tipple, Chief North/Central Florida Restoration Branch, USACE
(904) 232-1375, David.A.Tipple@saj02.usace.army.mil

Program Name: Infrastructure

Project Name: Modified Water Deliveries to Everglades National Park

Project ID: 1307

Lead Agency: National Park Service

Authority: Everglades National Park Protection and Expansion Act of 1989 (Public Law 101-229)

Funding Source:

Strategic Plan Goal(s) Addressed: Primary: 1.A.3

Secondary: Other

Measurable Output(s): modification of flow impediments; acres of wetland habitat restored; acres of flood damage mitigation

Project Synopsis: This project is funded from the Construction Account managed by the National Park Service and the Department of the Interior. The authorized project consists of structural features with the intended purpose of restoring more natural hydrological conditions in Water Conservation Area (WCA) 3 and Shark River Slough within Everglades National Park. Hydrological improvements are crucial to restoring ecosystem productivity in the southern Everglades and maintaining adequate freshwater inflow to the downstream estuaries along the Gulf of Mexico and Florida Bay.

This project involves construction of modifications to the Central and Southern Florida (C&SF) Project water management system and related operational changes to provide improved water deliveries to Everglades National Park (ENP). The Corps of Engineers 1992 General Design Memorandum (GDM) project design for the Modified Water Deliveries (MWD) Project and subsequent supplements to the GDM specify the construction of structural features with the intended purpose of restoring conveyance between water conservation areas north of ENP and the Shark River Slough within the park. The documents also specify project features to provide flood mitigation to the 8.5 Square Mile Area, a residential area adjacent to the park expansion boundary in East Everglades. For management purposes, the project is described in four categories: 8.5 Square Mile Area, Conveyance and Seepage Control, Tamiami Trail and Project Implementation Support (ENP requirements, Experimental Program, Environmental Monitoring, the Combined Structural and Operational Plan or CSOP and Osceola Camp). Since the completion of the 1992 GDM, investigations associated with the Comprehensive Everglades Restoration Plan (CERP) resulted in the identification of revised ecosystem restoration requirements and the identification of potential design problems associated with the original 1992 project features. This, in turn, has resulted in the completion of Supplemental NEPA documents for the 8.5 SMA component (completed July 2000), the Tamiami Trail component (to be completed in 2006), the Conveyance features and CSOP (to be completed in 2007). As a result, modifications are proposed to the current baseline cost and schedule. The revised cost and schedule are summarized below, which OMB must approve before adoption.

This project is being implemented in conjunction with acquisition of 109,504 acres in the East Everglades as part of the Everglades National Park expansion. Acquisition of land within the East Everglades Addition is necessary to limit further losses suffered by the park due to habitat destruction outside former boundaries and to restore natural water flow patterns that are critical to the ecological integrity and long-term viability of park resources.

Hyperlink: N/A

Contact: N/A

Project 1307 Page 1 of 2

Cost:

Total \$398,418,000*

Project Schedule:

Start Date: 1990
 Finish Date: 2009

	< 2004	2004	2005	2006	2007	2008	2009
Design							
Real Estate							
Construction							

Detailed Project Budget Information (\$1,000)

Planned Expenditures	Thru 2005	2006	2007	2008	2009	Balance to complete	Total
Federal	187,905	47,902	65,168	59,770	37,656	150,514	398,418*

***This number reflects the currently approved figures between the Department of the Interior and the U.S. Army Corps of Engineers. As of FY06, funding is provided by both agencies. A revised Capital Asset Plan for the project is being drafted.**

Program Name: Infrastructure
Project Name: E&SF: Critical Projects – Additional Water Conveyance Structures Under Tamiami Trail
Project ID: 1400
Lead Agency: USACE / SFWMD
Authority: WRDA 1996
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: Other

Measurable Output(s): hydrologic sheetflow restoration

Project Synopsis: This Project consists of two phases. The Phase I involves planning, project design and construction of 62 culverts under US 41 and 15 under Loop Road between SR 92 and Collier / Miami-Dade County line. The Phase II involves resurfacing of the roadway of the Tamiami Trail pursuant to construction of the culverts. State Road 29 West is being completed as part of the Southern Golden Gate Estates Hydrologic Restoration. This project will improve the natural sheetflow of surface water within the watersheds of the Ten Thousand Islands National Wildlife Refuge & Aquatic Preserve, Southern Golden Gate Estates, Fakahatchee Strand State Preserve, Big Cypress National Preserve and Everglades National Park. By creating a more diffuse flowway beneath the Tamiami Trail, a more natural hydropattern will be established north and south of this highway. Improvement of the natural hydrology will also enhance biological restoration of the region. This project will directly support objectives for several other south Florida projects such as the Levee 28 modification and restoration of Southern Golden Gate Estates.

SFWMD is designing and constructing the project.

Cost: \$16,506,000

Project Schedule:

Start Date: 1998
Finish Date: 2006

	2002	2003	2004	2005	2006
Design					
Construction					

Detailed Project Budget Information (\$1,000)

	Thru 2004	2005	2006	Total
USACE	2,622	0	0	2,622
SFWMD	239	6,823	6,823	13,884
Total	2,861	6,823	6,823	16,506

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Program Name: Infrastructure
Project Name: Biscayne Bay Feasibility Study
Project ID: 1401
Lead Agency: USACE / Miami-Dade County
Authority: WRDA 1996
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: Other

Measurable Output(s): Report

Project Synopsis: Biscayne Bay is a shallow, well-mixed estuary located along the southeastern coast of Florida. It includes most of Biscayne National Park, and adjacent lands provide fresh surface or groundwater to Biscayne Bay. The Central and Southern Florida (C&SF) Project is believed to have changed the timing, distribution and amount of freshwater reaching the bay. This impacts the natural salinity patterns and ecology of that bay. The Comprehensive Everglades Restoration Plan (CERP) is modifying the C&SF project to improve flows needed for the environment, including Biscayne Bay. Proposed modifications to this hydrologically-connected system may impact Biscayne Bay. This study allows resource managers to assess those impacts and determine if further studies of Biscayne Bay are needed.

Cost: \$6,370,000

Project Schedule:

Start Date 1996
Finish Date 2010

	Thru 2004	2005	2006	2007	2008	2009	2010
Planning & Design							

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	2009	2010	Total
USACE	1,140	5	0	510	510	510	510	3,185
Miami-Dade Co.	1,058	0	0	532	532	532	532	3,185
Total	2,198	5	0	1,042	1,042	1,042	1,042	6,370

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Program Name: Infrastructure
Project Name: C&SF: CERP - Broward County Secondary Canal System (CC)
Project ID: 1403 (CERP Project # WBS 24)
Lead Agency: USACE / SFWMD
Authority: WRDA 2000 (Programmatic Authority)
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: Other

Measurable Output(s): Water control structures, pumps, canal improvements

Project Synopsis: This project includes a series of water control structures, pumps, and canal improvements located in the C-9, C-12 and C-13 Canal Basins and east basin of the North New River Canal in central and southern Broward County. The purpose of this project is to reduce water discharges by recharging local wellfields and stabilizing the saltwater interface. Excess water in the basins will be pumped into the coastal canal systems to maintain canal stages at optimum levels. When basin water is not sufficient to maintain canal stages, the canals will be maintained from other construction projects such as the Site 1 Impoundment and the North Lake Belt Storage Area and then from Lake Okeechobee and the Water Conservation Areas.

Cost: \$15,062,000

Project Schedule:

Project is scheduled to complete construction in Band 2 (2010 – 2015).

	2008	2009	2010	2011	2012	2013	2014
PIR/Plans & Specs							
Real Estate							
Construction							

Detailed Project Budget Information (\$1000)

	Thru 2004	2008	2009	2010	2011	2012	2013	2014	Total
USACE	8	376	376	752	1,881	1,881	1,128	1,128	7,531
SFWMD	42	374	374	749	1,872	1,872	1,123	1,123	7,531
Total	50	751	751	1,501	3,753	3,753	2,252	2,252	15,062

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_24_broward_canal.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP - C-111 Spreader Canal (WW)
Project ID: 1404 (CERP Project # WBS 29)
Lead Agency: USACE / SFWMD
Authority: WRDA 2000 (initially authorized)
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: Other

Measurable Output(s): Levees, canals, pumps, water control structures, and an STA

Project Synopsis: This feature includes levees, canals, pumps, water control structures, and a stormwater treatment area (STA) to be constructed, modified or removed in the Model Lands and Southern Glades (C-111 Basin) area of Miami-Dade County. This feature enhances the C-111 Project design for the C-111 Spreader Canal with the construction of a stormwater treatment area, the enlarging of pump station S-332E and the extension of the canal under U.S. Highway 1 and Card Sound Road into the Model Lands. The initial design of this feature pumps water from the C-111 and the C-111E Canals into a stormwater treatment area prior to discharging to Southern Everglades and Model Lands. This feature also calls for filling in the southern reach of the C-111 Canal and removal of structures S-18C and S-197. The final size, depth, location and configuration of this feature will be determined through more detailed planning and design. It is a multipurpose project that provides for ecosystem restoration of freshwater wetlands, tidal wetlands and near-shore habitat, maintenance of flood protection, and recreational opportunities. Additionally, the project will restore the quantity, quality, timing, and distribution of freshwater to the estuarine systems of Manatee Bay and Barnes Sound, while providing public access and recreational opportunities. A project team is currently developing the PIR for this project. The SFWMD, through its Acceler8 initiative, is advancing the design and construction of the project.

Cost: \$114,007,000

Project Schedule:

Project is scheduled to complete construction in 2009.

	2002	2003	2004	2005	2006	2007	2008	2009
Planning & Design								
Real Estate								
Construction								

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	2009	Total
USACE	1,942	5,506	5,506	5,506	11,012	27,531	57,004
SFWMD	1,150	5,585	5,585	5,585	11,171	27,927	57,003
Total	3,092	11,092	11,092	11,092	22,183	55,458	114,007

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_29_c111.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP – Water Preserve Area Conveyance (BB, XX P1)
Project ID: 1405 (CERP Project # WBS 49)
Lead Agency: USACE / SFWMD
Authority: Not authorized
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: Other

Measurable Output(s): Water control structures, levee modifications

Project Synopsis: This feature includes water control structures and modifications to the Dade-Broward Levee and associated conveyance system located in Miami-Dade County. The size and configuration of these facilities are being determined through planning and design as a part of the Project Implementation Report. The purpose of this feature is to reduce seepage losses to the east from the Pennsuco Wetlands and southern Water Conservation Area 3B, enhance hydroperiods in the Pennsuco Wetlands, and provide recharge to Miami-Dade County’s Northwest Wellfield.

Cost: \$321,574,000

Project Schedule:

Dade-Broward Levee (BB) construction is scheduled to be completed in Band 2 (2010 – 2015)
 North Lake Belt Storage Area (XXP1) construction is scheduled to be completed in Band 3 (2015 – 2020).

BB	2006	2007	2008	2009	2010	2011	2012	2013
Planning & Design								
Real Estate								
Construction								

XXP1	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Planning & Design											
Real Estate											
Construction											

Detailed Project Budget Information (\$1000)

	Thru 2004	2006	2007	2008	2009	2010	Balance to Complete 2011-2016	Total
USACE	227	3,211	3,211	4,817	4,817	16,056	128,448	160,787
SFWMD	0	3,216	3,216	4,824	4,824	16,079	128,630	160,787
Total	227	6,427	6,427	9,640	9,640	32,135	257,078	321,574

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_49_wpa.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
 (904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP - Loxahatchee National Wildlife Refuge Internal Canal Structures (KK)
Project ID: 1408 (CERP Project # WBS 14)
Lead Agency: USACE / SFWMD
Authority: WRDA 2000 (Programmatic Authority)
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: Other

Measurable Output(s): Water control structures

Project Synopsis: This feature includes two water control structures in the northern ends of the perimeter canals encircling the Loxahatchee National Wildlife Refuge (Water Conservation Area 1) located in Palm Beach County. The purpose of this feature is to improve the timing and location of water depths within the Refuge. It is assumed that these structures will remain closed except to pass Stormwater Treatment Area 1 East and Stormwater Treatment Area 1 West outflows and water supply deliveries to the coastal canals.

Cost: \$8,834,000

Project Schedule:

Project is scheduled to complete construction in Band 3 (2015 – 2020).

	2011	2012	2013	2014	2015
PIR/Plans & Specs					
Real Estate					
Construction					

Detailed Project Budget Information (\$1000)

	Thru 2004	2011	2012	2013	2014	2015	Total
USACE	49	218	218	1,092	1,092	1,747	4,417
SFWMD	0	221	221	1,104	1,104	1,767	4,417
Total	49	439	439	2,196	2,196	3,514	8,834

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_14_loxahatchee.cfm

Contact : David Tipple, Chief North/Central Florida Restoration Branch, USACE
(904) 232-1375, David.A.Tipple@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP – Seminole Tribe Big Cypress Water Conservation Plan (East & West) (OPE)
Project Name: 1409 (CERP Project # WBS 96)
Lead Agency: USACE / Seminole Tribe
Authority: Not authorized.
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Other

Measurable Output(s): Conveyance systems, canal bypass structures, irrigation storage cells, and water resource areas

Project Synopsis: This feature includes construction of water control, management and treatment facilities in the Big Cypress Reservation. The construction elements include conveyance systems, major canal bypass structures, irrigation storage cells, and water resource areas. The purpose of this feature is to improve the quality of water and runoff from phosphorous generating agricultural sources within the Reservation. The area is traversed by the L-28 and L-28I Borrow Canals and the North and West Feeder Canals, all of which were constructed as part of the Central & South Florida Project. This comprehensive watershed management system is designed to achieve environmental restoration on the Reservation, the Big Cypress Preserve, and the Everglades Protection Area. In addition, the project will reduce flood damage and promote water conservation. This is the second component of the overall plan, with the first component being completed under the Critical Projects Program.

Cost: \$87,206,000

Project Schedule:

Project is scheduled to complete construction in Band 3 (2015 – 2020).

	2015	2016	2017	2018	2019	2020	2021
Planning & Design							
Real Estate							
Construction							

Detailed Project Budget Information (\$1000)

	2015	2016	2017	2018	2019	2020	2021	Total
USACE	2,180	4,360	4,360	8,721	8,721	6,540	8,721	43,603
Tribe	2,180	4,360	4,360	8,721	8,721	6,540	8,721	43,603
Total	4,360	8,721	8,721	17,441	17,441	13,081	17,441	87,206

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_96.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP - Biscayne Bay Coastal Wetlands (FFF)(OPE)
Project ID: 1410(CERP Project # WBS 28)
Lead Agency: USACE / SFWMD
Authority: Not authorized.
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Other

Measurable Output(s): acres of restored wetlands

Project Synopsis: The Project will expand and restore the wetlands adjacent to Biscayne Bay in Miami-Dade County and help to restore the ecological health of Biscayne National Park. Phase 1 consists of the design and construction of two essential components, Deering Estates Flow-way and Cutler Ridge Wetlands, and restores the quantity, quality, timing, and distribution of freshwater to Biscayne Bay and Biscayne National Park. It will also improve salinity distribution near the shoreline, which will reestablish productive nursery habitat for shrimp and shellfish. In addition, the project will capture, treat, and redistribute freshwater runoff from the watershed into Biscayne Bay, creating more natural water deliveries, expanding spatial extent and connectivity of coastal wetlands, and providing improved recreational opportunities in Biscayne Bay and adjacent wetlands.

The SFWMD, through its Acceler8 initiative, is advancing the design and construction of Phase 1.

Cost: \$372,184,000

Project Schedule:

Phase 1 is scheduled to complete construction in 2008.
Phase 2 is scheduled to complete construction in Band 2 (2010 – 2015).

Phase 1 & 2	2004	2005	2006	2007	2008	2009	2010	2011
PIR/Plans & Specs								
Real Estate								
Construction (Ph 1)								
Construction (Ph 2)								

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	2009	2010	2011	Total
USACE	2,570	9,176	9,176	36,704	45,881	27,528	27,528	27,528	186,092
SFWMD	997	9,255	9,255	37,019	46,274	27,764	27,764	27,764	186,092
Total	3,567	18,431	18,431	73,723	92,154	55,293	55,293	55,293	372,184

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_28_biscayne_bay.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
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Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP - Caloosahatchee R. (C-43) Basin Aquifer Storage & Recovery – Pilot Project (D)
Project ID: 1411(CERP Project # WBS 33)
Lead Agency: USACE / SFWMD
Authority: WRDA 2000 (pilot project)
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: Other

Measurable Output(s): Report

Project Synopsis: The Caloosahatchee (C-43) River Aquifer Storage and Recovery (ASR) Pilot Project is necessary to identify the most suitable sites for the ASR wells in the vicinity of the C-43 Basin storage reservoir, to determine the optimum configuration, and to determine appropriate water treatment requirements. The pilot project will provide information regarding the characteristics of the aquifer system in South Florida as well as determine the hydrogeological and geotechnical characteristics of the Hawthorn and Floridan Aquifers.

A Pilot Project Design Report (PPDR), which includes all three ASR pilot projects, was completed in September 2004. Installation of exploratory wells has been completed. Congressional appropriations included in FY06 for installation and operational testing of the ASR Pilots.

Cost: \$8,173,200

Project Schedule:

Project is scheduled to complete construction in 2009.

	2002	2003	2004	2005	2006	2007	2008	2009
Feasibility & Design								
Construction								
Monitoring								

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	2009	Total
USACE	1,098	299	897	598	598	598	4,087
SFWMD	1,856	223	669	446	446	446	4,087
Total	2,954	522	1,566	1,044	1,044	1,044	8,173

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_33_cal_river_c43_asr_pilot.cfm

Contact: David Tipple, Chief North/Central Florida Restoration Branch, USACE
(904) 232-1375, David.A.Tipple@saj02.usace.army.mil

Source: Schedule information based on the *Master Implementation Sequencing Plan (MISP)*. Budget information based on the final Pilot Project Design Report (PPDR).

Program Name: Infrastructure
Project Name: C&SF: CERP - Diverting WCA 2 and WCA 3 Flows to Central Lake Belt Storage Area (YY) (S P1)
Project ID: 1412 (CERP Project # WBS 48)
Lead Agency: USACE / SFWMD
Authority: Not Authorized.
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Other

Measurable Output(s): Pumps, water control structures, canals, and canal improvements

Project Synopsis: This project consists of two components: Central Lake Belt Storage Area (S P1) and WCA 2B Flows (YY). Included are pumps, water control structures, canals, and conveyance improvements located adjacent to Water Conservation Areas 2 and 3 in Broward County. The size and configuration of these facilities will be determined through more detailed planning and design completed as a part of the Project Implementation Report. The purpose of this project is to attenuate high stages in Water Conservation Areas 2 and 3 and transport this excess water to Central Lake Belt Storage Area where it will be stored to meet downstream demands in Shark River Slough, Water Conservation Area 3B, or Biscayne Bay.

Cost: \$525,313,000

Project Schedule:

This project is scheduled to complete construction in Band 4 (2020-2025).

YY & S P1	2013	2014	2015	2016	2017	2018	2018	2019	2020	2021
Planning & Design										
Real Estate										
Construction (S P1)										
Construction (YY)										

Detailed Project Budget Information (\$1000)

	Thru 2004	2013	2014	2015	2016	Balance to Complete 2017-2021	Total
USACE	284	13,119	13,119	13,119	26,237	196,780	262,657
SFWMD	0	13,133	13,133	13,133	26,266	196,992	262,656
Total	284	26,251	26,251	26,251	52,503	393,772	525,313

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_48_wca_2b.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP - Everglades Rain-Driven Operations (H)
Project ID: 1413
Lead Agency: USACE / SFWMD
Authority: No Congressional action is required
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: Other

Measurable Output(s): Revised Water Conservation Area regulation schedule

Project Synopsis: Modifications to the regulation schedules for Water Conservation Areas 2A, 2B, 3A, 3B and the current Rainfall Delivery Formula for Everglades National Park will be made to implement rain-driven operations for all of these areas. These new operational rules are intended to improve timing and location of water depths in the Water Conservation Areas and Everglades National Park and to restore more natural hydropatterns. A plan for this will be developed following completion of the initial CERP update.

Cost: **TBD**

Project Schedule: TBD*

* Implement when appropriate as other facilities come on-line.

Detailed Project Budget Information

No budget information available, as project has not started.

Hyperlink: www.evergladesplan.org

Contact : USACE

Program Name: Infrastructure
Project Name: C&SF: CERP – Everglades National Park Seepage Management (V)(FF)(U)
Project ID: 1415 and 1108 (CERP Project # WBS 27 and 43)
Lead Agency: USACE / SFWMD
Authority: Not authorized
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Other / 1.A.1

Measurable Output(s): Relocation and restoration of L-31N, groundwater wells, and sheetflow delivery system
11,500 ac-ft. storage; pumps, water control structures, and canals

Project Synopsis: This project consists of three components. **1) L-31N Seepage Management (V)** includes relocating and restoring L-31N, groundwater wells, and sheetflow delivery system adjacent to Everglades National Park located in Miami-Dade County. More detailed planning, design and pilot studies will be conducted to determine the appropriate technology to control seepage from Everglades National Park. These studies and tests will also determine the appropriate amount of wet season groundwater flow control that will minimize potential impacts to Miami-Dade County’s West Wellfield and freshwater flows to Biscayne Bay. **2) S-356 Structure (FF)** includes relocation of the S-356 pump station. **3) Bird Drive Recharge Area (U)** was added to the project in 2004 as part of the effort associated with the Master Implementation Sequencing Plan (MISP). This feature includes pumps, water control structures, canals, and an aboveground recharge area with a total storage capacity of approximately 11,500 acre-feet located in Miami-Dade County. The initial design of the recharge feature assumed 2,877 acres with the water level fluctuating up to four feet above grade. Final design will seek to restore and maintain the continued viability of wetlands within the basin. The size, depth and configuration of these facilities will be determined through more detailed planning and design to be completed as a part of the Project Implementation Report and will address appropriate pollution load reduction targets necessary to protect downstream receiving surface waters. The Project Management Plan (PMP) was completed in October 2005.

Cost: \$377,001,000

Project Schedule:

L-31N Seepage Management (V) is scheduled to complete construction in Band 2 (2010-2015).
 S-356 Structure (FF) is scheduled to complete construction in Band 2 (2010-2015).
 Bird Drive Recharge Area (U) is scheduled to complete construction in Band 3 (2015-2020).

L-31N Seepage (V)	2005	2006	2007	2008	2009	2010	2011
PIR/ Plans & Specs							
Real Estate							
Construction							

S-356 (FF)	2005	2006	2007	2008	2009	2010	2011
PIR/ Plans & Specs							
Real Estate							
Construction							

1415 and 1108 Page 1 of 2

Bird Drive (U)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
PIR/ Plans & Specs											
Real Estate											
Construction											

Detailed Project Budget Information (\$1000)

	Thru 2004*	2005	2006	2007	2008	2009	Balance to Complete 2010-2015	Total
USACE	264	9,412	28,236	28,236	28,236	28,236	65,883	188,501
SFWMD	68	9,422	28,265	28,265	28,265	28,265	65,951	188,500
Total	332	18,833	56,500	56,500	56,500	56,500	131,834	377,001

*Expenditures for Bird Drive (U) only.

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_27_enp_seepage.cfm

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_43_bird_drive.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
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Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

1415 and 1108 Page 2 of 2

Program Name: Infrastructure
Project Name: C&SF: CERP - L-31N Seepage Management – Pilot Project (V)
Project ID: 1416 (CERP Project # WBS 36)
Lead Agency: USACE / SFWMD
Authority: WRDA 2000 (pilot project)
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: Other

Measurable Output(s): Report and technology determination

Project Synopsis: The purpose of this feature is to reduce levee seepage flow across L-31N adjacent to Everglades National Park via a levee cutoff wall. Additionally, the feature was designed to reduce groundwater flows during the wet season by capturing groundwater flows with a series of groundwater wells adjacent to L-31N, then back pumping those flows to Everglades National Park. The pilot project is necessary to determine the appropriate technology to control seepage from Everglades National Park. The pilot project will also provide necessary information to determine the appropriate amount of wet season groundwater flow to return that will minimize potential impacts to Miami-Dade County’s West Wellfield and freshwater flows to Biscayne Bay.

Cost: \$11,267,000

Project Schedule:

This project is scheduled to complete construction in 2010.

	2002	2003	2004	2005	2006	2007	2008	2009	2010
PPDR/Plans & Specs									
Construction									
Monitoring									

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	2009	2010	Total
USACE	1,429	294	336	1,262	1,051	631	631	5,634
SFWMD	1,058	320	366	1,373	1,144	686	686	5,633
Total	2,487	615	702	2,634	2,195	1,317	1,317	11,267

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_36_l31n_seepage.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
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Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP – Lakebelt (In-Ground Reservoir) Technology – Pilot Project
Project ID: 1417(CERP Project # WBS 35)
Lead Agency: USACE / SFWMD
Authority: WRDA 2000 (pilot project)
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: Other

Measurable Output(s): Report and test site

Project Synopsis: Several features recommend the use of areas where lime rock mining will have occurred. The initial design of these reservoirs includes subterranean seepage barriers around their perimeter in order to enable drawdown during dry periods, prevent seepage losses, and prevent water quality impacts due to transmissivity of the aquifer in these areas. The pilot project is required to determine construction technologies, storage efficiencies, impacts on local hydrology, and water quality effects. Water quality assessments will include a determination as to whether the in-ground reservoirs and seepage barriers will allow for storage of untreated waters without concerns of groundwater contamination.

Cost: \$26,023,000

Project Schedule:

This project is scheduled to complete construction in Band 3 (2015-2020).

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
PPDR/ Plans & Specs											
Construction											
Monitoring											

Detailed Project Budget Information (\$1000)

	Thru 2004	2010	2011	2012	2013	2014	Balance to Complete 2015-2020	Total
USACE	1,387	581	581	581	581	581	8,719	13,012
SFWMD	532	624	624	624	624	624	9,359	13,011
Total	1,919	1,205	1,205	1,205	1,205	1,205	18,078	26,023

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_35_lake_belt_pilot.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP - Lake Okeechobee Aquifer Storage and Recovery – Pilot Project (GG)
Project ID: 1418(CERP Project # WBS 32)
Lead Agency: USACE / SFWMD
Authority: WRDA 1999
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Other

Measurable Output(s): Report

Project Synopsis: The pilot project is necessary to identify the most suitable sites for the aquifer storage and recovery (ASR) wells in the vicinity of Lake Okeechobee and to identify the optimum configuration of those wells. Additionally, the pilot project will determine the specific water quality characteristics of waters to be injected, the specific water quality characteristics and amount of water recovered from the aquifer, and the water quality characteristics of the receiving aquifer. Further information from the pilot project will provide the hydrogeological and geotechnical characteristics of the upper Floridan Aquifer System within the region and the ability of the upper Floridan Aquifer System to maintain injected water for future recover. Exploratory wells were installed at sites around Lake Okeechobee to obtain the preliminary lithologic, geophysical, and hydrogeologic information. The results of this preliminary investigation were evaluated to confirm that these are viable sites for ASR purposes. These results were incorporated into the Pilot Project Design Report (PPDR) that includes all three ASR pilot projects (Lake Okeechobee, Hillsboro, and Caloosahatchee River (C-43)). This PPDR was completed in September 2004. Installation and operation of the pump will start in 2006.

Cost: \$30,860,523

Project Schedule:

This project is scheduled to complete construction in 2009.

	2001	2002	2003	2004	2005	2006	2007	2008	2009
PIR/Plans & Specs									
Construction									
Monitoring									

Detailed Project Budget Information (\$1,000)

	Thru 2004	2005	2006	2007	2008	2009	Total
USACE	3,509	238	3,576	3,576	2,265	2,265	15,430
SFWMD	4,110	226	3,396	3,396	2,151	2,151	15,430
Total	7,619	465	6,972	6,972	4,416	4,416	30,860

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_32_lake_o_asr_pilot.cfm

Contact: David Tipple, Chief North/Central Florida Restoration Branch, USACE
(904) 232-1375, David.A.Tipple@saj02.usace.army.mil

Source: Schedule information based on the *Master Implementation Sequencing Plan* (MISP). Budget information based on the Final Pilot Project Design Report (PPDR).

Program Name: Infrastructure
Project Name: C&SF: CERP - Lake Okeechobee Regulation Schedule (F)
Project ID: 1419 (CERP Project # WBS)
Lead Agency: USACE / SFWMD
Authority: No Congressional action is required
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Other

Measurable Output(s): New Lake Okeechobee regulation schedule

Project Synopsis: The Lake Okeechobee Regulation Schedule will be modified in order to take advantage of the additional storage facilities identified in the construction features. Two additional zones will be added to the schedule. The first zone will trigger discharges to the north of Lake Okeechobee reservoir and the Everglades Agricultural Area reservoir. The second higher zone will trigger the Lake Okeechobee aquifer storage and recovery facilities to begin injecting water from the Lake. Climate based forecasting will be used to guide management decisions regarding releases to the storage facilities.

Cost: TBD

Project Schedule: TBD*

*Implement when appropriate as other facilities come on-line.

Detailed Project Budget Information

No budget information available, as project has not started.

Hyperlink: www.evergladesplan.org

Contact: USACE

Program Name: Infrastructure
Project Name: C&SF: CERP – Modified Holey Land Wildlife Management Area Operation Plan (DD)
Project ID: 1420 (CERP Project # WBS 15)
Lead Agency: USACE / SFWMD
Authority: No Congressional action is required
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Other

Measurable Output(s): Modified operational plan for the Holey Land

Project Synopsis: Modification to the current operating plan for Holey Land Wildlife Management Area will be made to implement rain-driven operations for this area. Water deliveries are made to Holey Land from the Rotenberger Wildlife Management Area or from Stormwater Treatment Area 3/4 if Rotenberger flows are insufficient. The deliveries are assumed to be of acceptable water quality. These new operational rules are intended to improve the timing and location of water depths within the Holey Land Wildlife Management Area.

Cost: TBD

Project Schedule:

This project is scheduled for completion in Band 2 (2010-2015).

	2007	2008	2009	2010	2011
Operation Schedule					

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_15_modify_holey.cfm

Contact: David Tipple, Chief North/Central Florida Restoration Branch, USACE
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Source: Schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP - Modified Rotenberger Wildlife Management Area Operation Plan (EE)
Project ID: 1421(CERP Project # WBS 16)
Lead Agency: USACE / SFWMD
Authority: No Congressional action is required
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Other

Measurable Output(s): Modified Operational Plan for the Rotenberger Land

Project Synopsis: Modification to the current operating plan for the Rotenberger Wildlife Management Area will be made to implement rain-driven operations for this area. Water deliveries are made to the Rotenberger Area from Stormwater Treatment Area 5. The deliveries are assumed to be of acceptable water quality. These new operational rules are intended to improve the timing and location of water depths within the Rotenberger Wildlife Management Area.

Cost: TBD

Project Schedule:

This project is scheduled for completion in 2009.

	2007	2008	2009
Implement Regulation Schedule			

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_16_modify_rotenberger.cfm

Contact: David Tipple, Chief North/Central Florida Restoration Branch, USACE
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Source: Schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP - Operational Modification to Southern Portion of L-31N and C-111 (OO)
Project ID: 1422
Lead Agency: SFWMD / USACE
Authority: No Congressional action is required
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Other

Measurable Output(s): Modified operations of C-111 project

Project Synopsis: Modifications to the operations of the C-111 project, currently under construction, will be made to the southern portion of L-31N Borrow Canal and C-111. These operational modifications will be made to improve deliveries to Everglades National Park and decrease flood risk of adjacent agricultural areas in the Lower East Coast Service Area. The first part of the operational changes are being implemented under the Combined Structural and Operational Plan (CSOP) analysis. The balance of change will be implemented in coordination with CERP implementation.

Cost: **TBD**

Project Schedule:

Implement as part of C-111 project.

Detailed Budget:

Implement as part of C-111 project.

Hyperlink: <http://www.evergladesplan.org>

Contact: USACE

Program Name: Infrastructure
Project Name: C&SF: CERP - Hillsboro Aquifer Storage and Recovery (ASR) – Pilot Project (M)
Project ID: 1423 (CERP Project # WBS 34)
Lead Agency: USACE / SFWMD
Authority: WRDA 1999
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Other

Measurable Output(s): Report and optimum design

Project Synopsis: The pilot project will address uncertainties associated with ASR technology that are proposed in the CERP. It will be designed to determine the feasibility and evaluate technical and regulatory uncertainties, as well as optimum design, of a facility prior to embarking upon full scale implementation of the ASR facilities at the Western Hillsboro site, and other sites in the lower east coast region. The formulation of alternative pilot project designs is intended to address cost effective means to address these uncertainties. The Pilot Project Design Report (PPDR), which includes all three ASR pilot projects, was completed in September 2004. Alternate sites are now being investigated due to physical problems with the planned locations.

Cost: \$6,119,200

Project Schedule:

This project is scheduled to complete construction in 2009.

	2001	2002	2003	2004	2005	2006	2007	2008	2009
PIR/Plans and Specs									
Construction									
Monitoring									

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	2009	Total
USACE	1,562	449	449	195	180	225	3,060
SFWMD	1,925	340	340	147	136	170	3,060
Total	3,487	790	790	342	316	395	6,119

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_34_hillsboro_asr_pilot.cfm

Contact: David Tipple, Chief North/Central Florida Restoration Branch, USACE
(904) 232-1375, David.A.Tipple@saj02.usace.army.mil

Source: Schedule information based on the *Master Implementation Sequencing Plan* (MISP). Budget information based on the Final Pilot Project Design Report (PPDR).

Program Name: Infrastructure
Project Name: C&SF: CERP – Picayune Strand (Southern Golden Gate Estates) Hydrologic Restoration (OPE)
Project ID: 1424 (CERP Project # WBS 30)
Lead Agency: USACE / SFWMD
Authority: Not authorized
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Other

Measurable Output(s): Spreader channels, canal plugs, road removal, and pump stations
Restoration of 55,000 acres of wetlands

Project Synopsis: This project involves the restoration of natural water flow across 85 square miles in western Collier County that was drained in the early 1960s in the anticipation of extensive residential development. This subsequent development dramatically altered the natural landscape, changing a healthy wetland ecosystem into a distressed environment. The project includes 83 miles of canal plugs, 227 miles of road removal, and the addition of pump stations and spreader swales to aid in rehydration of wetlands and maintenance of flood protection for the Northern Golden Gate Estates residential area. The project will restore the wetlands in Picayune Strand (Southern Golden Gate Estates) and in adjacent public lands by reducing over drainage while restoring a natural and beneficial sheetflow of water to the Ten Thousand Islands National Wildlife Refuge. Additionally, the project will significantly increase the size of wetlands and improve major wetland ecosystems in adjacent lands including the Fakahatchee Strand State Preserve, Florida Panther National Wildlife Refuge, and Collier Seminole State Park, benefiting threatened and endangered species such as the Florida panther and the red cockaded woodpecker. Water quality and volume delivered to coastal estuaries will be improved by the moderation of large salinity fluctuations caused by freshwater flowing from the Faka Union Canal into the estuaries. The project will also maintain existing flood protection for the Northern Golden Gate Estates and provide public access and recreational opportunities.

The final Project Implementation Report (PIR) was completed in November 2004 and was signed by the Chief of Engineers in October 2005. The SFWMD, through its Acceler8 initiative, is advancing the design and construction of the project.

Cost: \$349,422,000

Project Schedule:

This project is scheduled to complete construction in 2009.

	2001	2002	2003	2004	2005	2006	2007	2008	2009
PIR/ Plans & Specs									
Real Estate									
Construction									

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	2009	Total
USACE	5,548	16,916	50,749	33,833	33,833	33,833	174,711
SFWMD	3,676	94,069	25,655	17,104	17,104	17,104	174,711
Total	9,224	110,986	76,404	50,936	50,936	50,936	349,422

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_30_sgge.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Schedule information based on the *Master Implementation Sequencing Plan* (MISP). Budget information based on the final Project Implementation Report (PIR).

Project 1424 page 2 of 2

Program Name: Infrastructure
Project Name: E&SF: Critical Projects - Seminole Big Cypress Reservation Water Conservation Plan
Project ID: 1425
Lead Agency: USACE / Seminole Tribe of Florida
Authority: WRDA 1996
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Other

Measurable Output(s): Construction of conveyance systems, major canal bypass structures, irrigation storage cells, and water resource areas

Project Synopsis: The planned network of surface water management structures is designed to accomplish the following four objectives to get the water right through quantity, quality, timing and distribution necessary for restoration: 1) Remove phosphorus and other pollutants from water leaving the Reservation. The removal of these pollutants will be achieved using natural treatment processes, in pretreatment cells and water resource areas (WRAs). The Tribe's WRAs will take advantage of the natural treatment processes and will serve additional functions in the storage and conveyance of water. 2) Convey and store irrigation water. To make use of water provided by the District (to replace the Tribe's diverted Compact water rights), the Tribe needs to be able to take this water, when it is available, to move it and to store it. This will be accomplished through water conveyance improvements and irrigation storage cells. 3) Provide improved flood control. Stormwater must be controlled on the Reservation to prevent extended periods of flooding and limit impacts downstream. This will be accomplished by means of stormwater attenuation areas, which will detain water from large storm events. 4) Re-water Big Cypress National Preserve. The Seminole Water Conservation Project will provide the opportunity to restore more natural hydroperiods in the Big Cypress National Preserve. Bypass structures will be placed under the West Feeder Canal that will sheetflow clean water south along the length of the Feeder Canal into the Big Cypress Addition.

Construction of the conveyance canal system is complete. Construction of the western-basin water management features is scheduled to begin in FY06.

Cost: \$49,871,000

Project Schedule:

Start Date: 1997
Finish Date: 2008

	2000	2001	2002	2003	2004	2005	2006	2007	2008
Design									
Real Estate									
Construction									

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	Total
USACE	3,246	5,260	5,260	5,260	5,260	24,286
Tribe	6,195	4,848	4,848	4,848	4,848	25,585
Total	9,441	10,108	10,108	10,108	10,108	49,871

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Program Name: Infrastructure
Project Name: Florida Bay and the Florida Keys Feasibility Study
Project ID: 1426
Lead Agency: USACE / SFWMD
Authority: WRDA 1996
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Other

Measurable Output(s): Feasibility Report

Project Synopsis: Construction of Flagler’s railroad to Key West and subsequent conversion into U.S. Highway 1 involved the placement of fill material in wetlands and open water for the numerous causeways between the keys. These causeways altered tidal flows between Florida Bay and the Atlantic Ocean, resulting in adverse water quality and fish and wildlife habitat impacts. One of the House of Representatives Committee on Public Works and Transportation resolutions of 24 September 1992 requested the Corps of Engineers conduct a study of Florida Bay, including a comprehensive, coordinated ecosystem study with hydrodynamic modeling of Florida Bay and its connections to the Everglades, the Gulf of Mexico, and the Florida Keys Coral Reef ecosystem. Hydrodynamic and water quality models currently under development for Florida Bay will provide the tools necessary for evaluation of the problem in a holistic manner. A feasibility study is underway to comprehensively evaluate Florida Bay and to determine the types of modifications that are needed to successfully restore water quality and ecological conditions of the Bay.

Cost: \$6,299,900

Project Schedule:

Start Date: 2001
Finish Date: 2012

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Feasibility Study												

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	2009	2010	2011	2012	Total
USACE	1,396	219	219	219	219	219	219	219	219	3,150
SFWMD	1,504	206	206	206	206	206	206	206	206	3,150
Total	2,900	425	6,300							

Hyperlink: http://www.evergladesplan.org/pm/studies/fl_bay.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Schedule information based on the *Master Implementation Sequencing Plan* (MISP). Budget information based on the approved Project Management Plan (PMP).

Program Name: Restoration Program: Hydrological Restoration
Project Name: Rotenberger Restoration
Project ID: 1430
Lead Agency: South Florida Water Management District
Authority: Florida's Everglades Forever Act

Strategic Plan Goal(s) Addressed: Getting the Water Right.

Measurable Output(s): Extent of hydropattern restored (Target: 29,000 acres).

Project Synopsis: The Rotenberger Restoration project restores hydropattern on the Rotenberger Wildlife Management Area, a total of over 29,000 acres. An inflow pump station and distribution canal were constructed near the southeast corner of STA-5. Also constructed were four outfall culverts, which were placed in the east levee of the Rotenberger Wildlife Management Area to route water to the Miami Canal.

*** Cost (Estimate):**

Total:	\$ 5,204,444
(1) Project Development:	\$ 307,283
Land Acquisition:	\$ -
(2) Implementation:	\$ 3,035,047
Operations and Maintenance:	\$ 1,862,114

Project Schedule:

Completion Date: September 2002

	FY 1994 - FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009 - FY 2016
Project Development						
Land Acquisition						
Implementation						
Operations and Maintenance						

*** Detailed Project Budget Information**

	Actual FY 1994-04	Projected FY 2005	Projected FY 2006	Projected FY 2007	Projected FY 2008	Balance to complete	Total
Federal							
State	\$3,530,017	\$117,936	\$121,475	\$125,115	\$128,901	\$1,181,000	\$5,204,444
Tribal							
Local							
Other							
Total	\$3,530,017	\$117,936	\$121,475	\$125,115	\$128,901	\$1,181,000	\$5,204,444

- **Cost data reflects actual inception-to-date expenditures through September 30, 2004 and current preliminary cost estimate projections.**

(3) Project Development includes Design Phase [contracts & staff costs] costs.

(4) Implementation includes all Construction [contracts & contingency] and Construction Management [contracts & staff costs] costs.

Point of Contact: Steve Poonasingh, (561) 682-2934

Program Name: Feasibility Studies Infrastructure
Project Name: Southwest Florida Feasibility Study
Project ID: 1431 (WBS 516)
Lead Agency: USACE / SFWMD
Authority: WRDA 1996
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: Other

Measurable Output(s): Feasibility Report

Project Synopsis: The Caloosahatchee River is the only portion of the C&SF Project that lies in southwest Florida. The river serves as an outlet from Lake Okeechobee to the Gulf of Mexico and is the major source of surface water supply to the Lower West Coast region. It provides agricultural and lawn irrigation, and public water supplies, and it is used to recharge shallow wellfields. The river also provides drainage for private drainage systems and local drainage districts.

The facilities included in the Comprehensive Plan for the Caloosahatchee River Basin will help meet the needs of the basin. However, there are additional water resources problems and opportunities in southwest Florida that require studies that are beyond the scope of the Comprehensive Plan. For example, primary water quality and hydrologic data do not exist for much of the region. This lack of monitoring and assessment data information is a fundamental gap for this region of the State and greatly hinders its long-term water resources management opportunities.

The Southwest Florida Feasibility Study will include Collier, Lee, Charlotte, Glades and Hendry Counties and provide a framework to address the health of aquatic ecosystems, water flows, water quality (including appropriate pollution reduction targets), water supply, flood protection, wildlife, and biological diversity and natural habitat. The study will also investigate non-structural alternatives.

Cost: \$12,000,000

Project Schedule:

Start Date: 2001
Finish Date: 2009

	2001	2002	2003	2004	2005	2006	2007	2008	2009
Feasibility Study									

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	2009	Total
USACE	3,558	488	488	488	488	488	6,000
SFWMD	3,379	524	524	524	524	524	6,000
Total	6,937	1,013	1,013	1,013	1,013	1,013	12,000

Hyperlink: <http://www.evergladesplan.org/pm/studies/swfl.cfm>

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget information based on the approved Project Management Plan (PMP). Schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress*.

Program Name: Restoration Program: Hydrological Restoration
Project Name: WCA-2A Hydropattern Restoration
Project ID: 1432
Lead Agency: South Florida Water Management District
Authority: Florida's Everglades Forever Act

Strategic Plan Goal(s) Addressed: Getting the Water Right

Measurable Output(s): Extent of hydropattern improved (7,680 acres)

Project Synopsis: WCA-2A Hydropattern Restoration Works originally consisted of a modification of the L-6 levee and borrow canal to result in an approximation of sheet flow into Water Conservation Area-2A. This modification of the levee was to extend from G-335, the outflow pump station for STA-2, northeasterly to the STA-2 inflow canal from S-6, a total length of approximately 39,750 feet. The sheet flow approximation project was partially implemented and the following changes were made to the original 1994 Conceptual Design, Everglades Protection Project. G-338 is situated immediately downstream of the S-6 Pump Station, discharging from the STA-2 Supply Canal to the Hillsboro Canal in WCA-1. The overflow weirs originally intended for passing STA-2 discharges across the East L-6 to WCA-2A have been replaced with un-gated box culverts, and the number of structures and their locations was modified from the original design. The plan for the remainder of the sheet flow approximation project includes the construction of six additional culverts through the East Levee L-6 over an approximate 18,000 ft.

*** Cost (Estimate):**

Total:	\$ 6,067,936
(1) Project Development:	\$ 950,423
Land Acquisition:	\$ -
(2) Implementation:	\$ 4,764,266
Operations and Maintenance:	\$ 353,247

Project Schedule:

Expected Completion Date: October 2012

	FY 1994 - FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009 - FY 2016
Project Development						
Land Acquisition						
Implementation						
Operations and Maintenance						

*** Detailed Project Budget Information**

	Actual FY 1994-04	Projected FY 2005	Projected FY 2006	Projected FY 2007	Projected FY 2008	Balance to complete	Total
Federal							
State	\$4,919,013	\$23,166	\$23,861	\$24,576	\$25,320	\$1,052,000	\$6,067,936
Tribal							
Local							
Total	\$4,919,013	\$23,166	\$23,861	\$24,576	\$25,320	\$1,052,000	\$6,067,936

• **Cost data reflects actual inception-to-date expenditures through September 30, 2004 and current preliminary cost estimate projections.**

- (5) Project Development includes Design Phase [contracts & staff costs] costs.
- (6) Implementation includes all Construction [contracts & contingency] and Construction Management [contracts & staff costs] costs.

Contact: Steve Poonasingh, (561) 682-2934

Program Name: Restoration Program: Hydrological Restoration
Project Name: West WCA-3A Hydropattern Restoration
Project ID: 1433
Lead Agency: South Florida Water Management District
Authority: Florida's Everglades Forever Act

Strategic Plan Goal(s) Addressed: Getting the Water Right

Measurable Output(s): Improve the volume, timing and distribution of water entering the Everglades

Project Synopsis: The objective of this plan element is to restore hydroperiod along the northwest perimeter of Water Conservation Area 3A, west of the Miami Canal and east of Levee L-28. This will be accomplished through development of a sheet flow approximation along the affected three mile length. The source of the water supply for this sheet flow is discharges from the Rotenberger Wildlife Management Area and the outflows from STA-5 via the pump station G-404 and STA-6. The original plan for this project as shown in the 1994 Conceptual Design, Everglades Protection Project, was revised and is now addressed in the 2003 Long-Term Plan. The one remaining element of the West WCA-3A Hydropattern Restoration Project is the degradation (removal to existing grade) of the South Levee L-4 generally between the Miami Canal and the L-3 Canal Extension.

*** Cost (Estimate):**

Total:	\$ 11,843,396
(1) Project Development:	\$ 51,492
Land Acquisition:	\$ -
(2) Implementation:	\$ 8,377,931
Operations and Maintenance:	\$ 3,413,973

Project Schedule:

Expected Completion Date: October 2012

	FY 1994 - FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009 - FY 2016
Project Development						
Land Acquisition						
Implementation						
Operations and Maintenance						

*** Detailed Project Budget Information**

	Actual FY 94-04	Projected FY 2005	Projected FY 2006	Projected FY 2007	Projected FY 2008	Balance to complete	Total
Federal							
State	\$7,169,758	\$232,713	\$239,697	\$246,879	\$254,349	\$3,700,000	\$11,843,396
Tribal							
Local							
Other							
Total	\$7,169,758	\$232,713	\$239,697	\$246,879	\$254,349	\$3,700,000	\$11,843,396

- **Cost data reflects actual inception-to-date expenditures through September 30, 2004 and current preliminary cost estimate projections.**

- (7) Project Development includes Design Phase [contracts & staff costs] costs.
- (8) Implementation includes all Construction [contracts & contingency] and Construction Management [contracts & staff costs] costs.

Contact: Steve Poonasingh, (561) 682-2934

Program Name: Infrastructure
Project Name: C&SF: CERP - Flows to Eastern Water Conservation Area (EEE)
Project ID: 1434 (CERP Project # WBS 23)
Lead Agency: USACE / SFWMD
Authority: Not authorized
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Other

Measurable Output(s): Improved hydropattern in Eastern Water Conservation Area

Project Synopsis: This feature includes pumps and water control structures. Excess water from Water Conservation Areas 2 and 3 will be diverted into the L-37, L-33, and L-30 Borrow Canals, which run along the eastern boundaries of the Water Conservation Areas, and pumped into the Central Lake Belt Storage Area.

Cost: \$7,833,000

Project Schedule:

Project is scheduled to complete construction in Band 3 (2015 – 2020).

	2011	2012	2013	2014	2015	2016	2017
PIR/Plans & Specs							
Construction							

Detailed Project Budget Information (\$1000)

	2011	2012	2013	2014	2015	2016	2017	Total
USACE	78	117	196	392	862	1,097	1,175	3,917
SFWMD	78	117	196	392	862	1,097	1,175	3,917
Total	157	235	392	783	1,723	2,193	2,350	7,833

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_23_flow_eastern.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP - C-4 Control Structures (T)
Project ID: 1435 (CERP Project # WBS 46)
Lead Agency: USACE / SFWMD
Authority: Not authorized
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Other

Measurable Output(s): Wellfield recharge, seepage reduction

Project Synopsis: This feature includes two water control structures located in the C-4 Canal in Miami-Dade County. The eastern structure will be operated to reduce regional system deliveries by diverting dry season stormwater flows to the C-2 Canal to provide salt water intrusion protection and recharge to downstream wellfields. A western structure, being implemented under the Critical Projects Program, will be operated to control water levels in the C-4 Canal at a higher elevation to reduce seepage losses from the Pennsuco Wetlands and areas to the west of the structure.

Cost: \$2,729,000

Project Schedule:

Project is scheduled to complete construction in Band 2 (2010-2015).

	2008	2009	2010	2011	2012	2013
PIR/Plans & Specs						
Real Estate						
Construction						

Detailed Project Budget Information (\$1000)

	Thru 2004	2008	2009	2010	2011	2012	2013	Total
USACE	92	25	204	204	204	382	255	1,365
SFWMD	21	27	215	215	215	403	269	1,365
Total	113	52	419	419	419	785	523	2,729

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_46_c4_structure.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP - Big Cypress/L-28 Interceptor Modifications (CCC)
Project ID: 1500 (CERP Project # WBS 10)
Lead Agency: USACE / SFWMD
Authority: Not Authorized.
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: 1.B.1

Measurable Output(s): 7,600 ac-ft STA
Levee degrading and canal filling

Project Synopsis: This feature includes modification of levees and canals, water control structures, pumps, and stormwater treatment areas (STAs) with a total storage capacity of 7,600 acre-feet located within and adjacent to the Miccosukee and Seminole Indian Reservations in Collier and Hendry Counties. The initial design of the STAs assumed a total acreage of 1,900 acres with the water level fluctuating up to 4 feet above grade. Conceptual sizes of the STAs were based on interim phosphorus concentration targets in the conceptual plan for the Everglades Construction Project. The final size, depth and configuration of this facility, including the STAs, will be determined through more detailed planning and design. Design of the stormwater treatment areas will be based on water quality criteria of the Seminole Tribe and criteria applicable to Big Cypress National Preserve, as appropriate.

Cost: \$49,994,000

Project Schedule:

This project is scheduled to complete construction in Band 4 (2020-2025).

	2015	2016	2017	2018	2019	2020	2021	2022
Planning & Design								
Real Estate								
Construction								

Detailed Project Budget Information (\$1000)

	2015	2016	2017	2018	2019	2020	2021	2022	Total
USACE	500	750	2,500	2,500	2,500	4,999	4,999	6,249	24,997
SFWMD	500	750	2,500	2,500	2,500	4,999	4,999	6,249	24,997
Total	1,000	1,500	4,999	4,999	4,999	9,999	9,999	12,499	49,994

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_10_big_cypress.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP – Broward County WPA - C-9 Stormwater Treatment Area/ Impoundment (R) and Western C-11 Diversion Impoundment and Canal (Q) and Water Conservation Areas 3A and 3B Levee Seepage Management (O)
Project ID: 1501 (CERP Project # WBS 45)
Lead Agency: USACE / SFWMD
Authority: WRDA 2000 (initially authorized)
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: 1.B.1

Measurable Output(s): 16,400 ac-ft. of treatment and storage capacity

Project Synopsis: The C-9 Stormwater Treatment Area (STA)/ Impoundment feature includes canals, levees, water control structures and a STA/impoundment with a total capacity of approximately 10,000 acre-feet, located in the western C-9 Basin in Broward County. The initial design of the STA/impoundment assumed 2,500 acres with the water level fluctuating up to 4 feet above grade. The purpose of this feature is to provide treatment of runoff stored in the North Lake Belt Storage Area, enhance the groundwater recharge within the basin, provide seepage control for Water Conservation Area 3 and buffer areas to the west, and provide flood protection for western C-9 Basin.

The Western C-11 Diversion Impoundment and Canal and Water Conservation Areas 3A and 3B Levee Seepage Management feature includes canals, levees, water control structures, and a STA/impoundment with a total storage capacity of 6,400 acre-feet located in western Broward County. The initial design of the STA/impoundment assumed 1,600 acres with water level fluctuating up to 4 feet above grade. The purpose of this feature is to divert and treat runoff from the western C-11 Basin that is presently discharged into Water Conservation Area 3A, control seepage from Water Conservation Areas 3A and 3B by improving groundwater elevations, and providing flood protection for the western C-11 Basin.

The final size, depth and configuration of these facilities were determined through more detailed planning and design completed as a part of the Draft Water Preserve Areas Feasibility Study and as part of the draft Project Implementation Report (PIR). Detailed design of these features will address pollution load reduction targets necessary to protect receiving waters.

A draft Project Implementation Report (PIR) was completed and is ready for review. The SFWMD, through its Acceler8 initiative, is advancing the design and construction of the project.

Cost: \$392,755,000

Project Schedule:

This project is scheduled to complete construction in 2009.

WCA 3A/B Seepage Mgmt	2004	2005	2006	2007	2008
PIR/ Plans & Specs					
Real Estate					
Construction					

C-9 & C-11 Impoundments	2004	2005	2006	2007	2008	2009
PIR/ Plans & Specs						
Real Estate						
Construction						

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	2009	Total
USACE	1,245	9,757	58,540	48,783	39,027	39,027	196,378
SFWMD	410	9,798	58,790	48,992	39,193	39,193	196,377
Total	1,655	19,555	117,330	97,775	78,220	78,220	392,755

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_45_broward_wpa.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
 (904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Project 1501 page 2 of 2

Program Name: Infrastructure
Project Name: C&SF: CERP - Miccosukee Tribe Water Management Plan (OPE)
Project ID: 1502 (CERP Project # WBS 90)
Lead Agency: USACE / Miccosukee Tribe
Authority: WRDA 2000 (Programmatic Authority)
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: 1.B.1

Measurable Output(s): 900-acre constructed wetland

Project Synopsis: This feature includes construction of a 900-acre wetland retention/detention area on the Miccosukee Tribe's Alligator Alley Reservation. The feature includes a pump station, levees, trenches and culverts to create the inflow and outflow facilities for the retention/detention area.

Cost: \$28,310,000

Project Schedule:

This project is scheduled to complete construction in Band 3 (2015-2020).

	2010	2011	2012	2013	2014	2015	2016
Water Management Plan							

Detailed Project Budget Information (\$1000)

	2010	2011	2012	2013	2014	2015	2016	Total
USACE	2,022	2,022	2,022	2,022	2,022	2,022	2,022	14,155
Tribe	2,022	2,022	2,022	2,022	2,022	2,022	2,022	14,155
Total	4,044	28,310						

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_90_miccosukee.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

LWL	2003	2004	2005	2006	2007	2008	2009	2010
PIR/Plans and Specs								
Real Estate								
Construction								

Pal-Mar/Corbett	2003	2004	2005	2006	2007	2008	2009	2010	2011
PIR/Plans and Specs									
Real Estate									
Construction									

C-17 (X) & C-51 (Y)	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
PIR/Plans and Specs										
Real Estate										
Construction										

L-8 (K P1)	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
PIR/Plans and Specs											
Real Estate											
Construction											

C-51 and L-8 (GGG)	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
PIR/Plans and Specs													
Real Estate													
Construction (GGG)													

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	Balance to Complete 2009-2015	Total
USACE	2,699	12,804	12,804	51,217	51,217	128,044	258,786
SFWMD	3,917	12,743	12,743	50,974	50,974	127,434	258,785
Total	6,616	25,548	25,548	102,191	102,191	255,478	517,571

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_17_npbcr1.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
 (904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP - Caloosahatchee Backpumping with Stormwater Treatment (DDD)
Project ID: 1505 (CERP Project # WBS 06)
Lead Agency: USACE / SFWMD
Authority: Not authorized.
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: 1.B.1

Measurable Output(s): 5,000 acre STA

Project Synopsis: This feature includes pump stations and a stormwater treatment area (STA) with a total capacity of approximately 20,000 acre-feet located in the C-43 Basin in Hendry and Glades Counties. The initial design of the stormwater treatment area assumed 5,000 acres with the water level fluctuating up to 4 feet above grade. The final size, depth and configuration of this facility will be determined through more detailed planning and design.

Cost: \$96,962,000

Project Schedule:

Project is scheduled to complete construction in Band 3 (2015 – 2020).

	2011	2012	2013	2014	2015	2016	2017	2018
PIR/ Plans & Specs								
Real Estate								
Construction								

Detailed Project Budget Information (\$1000)

	2011	2012	2013	2014	Balance to Complete 2015-2018	Total
USACE	6,060	6,060	6,060	6,060	24,241	48,481
SFWMD	6,060	6,060	6,060	6,060	24,241	48,481
Total	12,120	12,120	12,120	12,120	48,481	96,962

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_06_cal_backpumping.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: E&SF: Critical Projects - Lake Okeechobee Water Retention/Phosphorous Removal
Project ID: 1506
Lead Agency: USACE / SFWMD
Authority: WRDA 1996
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: 1.B.1

Measurable Output(s): 2 stormwater treatment areas with 940 acres

Project Synopsis: This project reestablishes wetlands currently drained for agriculture. It includes construction of two stormwater treatment areas, which will reduce phosphorous loading to Lake Okeechobee. Construction is underway.

Cost: \$21,149,000

Project Schedule:

Start Date: 1997
Finish Date: 2006

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Planning & Design	■	■	■	■	■	■	■			
Real Estate				■						
Construction								■	■	■

Detailed Project Budget Information (\$1,000)

	Thru 2004	2005	2006	Total
USACE	3,064	3,735	3,735	10,533
SFWMD	4,797	2,910	2,910	10,616
Total	7,861	6,644	6,644	21,149

Contact: David Tipple, Chief North/Central Florida Restoration Branch, USACE
(904) 232-1375, David.A.Tipple@saj02.usace.army.mil

Program Name: Restoration Program: Hydrological Restoration, Water Quality
Project Name: STA-1 West Works and Outflow Pump Station (G-310)
Project ID: 1508
Lead Agency: South Florida Water Management District
Authority: Florida's Everglades Forever Act

Strategic Plan Goal(s) Addressed: Getting the Water right.

Measurable Output(s): Acres of stormwater treatment area (6,700 acres).

Project Synopsis: STA-1 West is located in Western Palm Beach County and it serves the area tributary to Pump Station S-5A and the Loxahatchee National Wildlife Refuge (WCA-1). STA 1 West consists of almost 7,000 acres (over 10 square miles) of prior agricultural fields that have been converted to wetland treatment systems designed to reduce phosphorus loads entering the Everglades. The construction consisted of approximately 6,700 acres of wetlands, 14 miles of levees, three concrete spillways, culverts and related ancillary facilities. STA-1 West includes the former Everglades Nutrient Removal (ENR) Project, which was a demonstration project of wetland treatment technology. Pump Station G-310 is located at the south corner of STA-1 West and directly southwest of the existing G-251 outflow pump station for the former ENR project. With a capacity of 3,040 cfs, G-310 provides treated water to the Loxahatchee National Wildlife Refuge, also known as, WCA 1. Enhancements to this STA are part of the Long-Term Plan and are not included in the project costs and schedules shown below.

*** Cost (Estimate):**

Total:	\$ 107,547,120
(1) Project Development:	\$ 3,120,981
Land Acquisition:	\$ 22,639,867
(2) Implementation:	\$ 47,055,072
Operations and Maintenance:	\$ 34,731,200

Project Schedule:

Completion Date: Approximate 2000 (construction)

	FY 1994 - FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009 - FY 2016
Project Development						
Land Acquisition						
Implementation						
Operations and Maintenance						

*** Detailed Project Budget Information**

	Actual FY 1994-04	Projected FY 2005	Projected FY 2006	Projected FY 2007	Projected FY 2008	Balance to complete	Total
Federal							
State	\$79,479,712	\$2,632,750	\$2,378,258	\$2,010,780	\$2,071,620	\$18,974,000	\$107,547,120
Tribal							
Local							
Other							
Total	\$79,479,712	\$2,632,750	\$2,378,258	\$2,010,780	\$2,071,620	\$18,974,000	\$107,547,120

- Cost data reflects actual inception-to-date expenditures through September 30, 2004 and current preliminary cost estimate projections.

- (9) Project Development includes Design Phase [contracts & staff costs] costs.
- (10) Implementation includes all Construction [contracts & contingency] and Construction Management [contracts & staff costs] costs.

Point of Contact: Steve Poonaisingh, (561) 682-2934

Program Name: Restoration Program: Hydrological Restoration, Water Quality
Project Name: STA-2 Works and Outflow Pump Station (G-335)
Project ID: 1509
Lead Agency: South Florida Water Management District
Authority: Florida's Everglades Forever Act

Strategic Plan Goal(s) Addressed: Getting the Water Right

Measurable Output(s): Acres of stormwater treatment area (6,430 acres).

Project Synopsis: STA-2 Works is located in southern Palm Beach County including and surrounding the Brown's Farm Wildlife Management Area. This project provides a total effective treatment area of 6,430 acres serving the area tributary to pump station S-5A and S-6. Construction included approximately 28 miles of levees constructed in the inflow, interior and discharge works combined, remote controlled structures and pump station G-335. This stormwater treatment area discharges to Water Conservation Area -2A (WCA-2A). Outflow Pump Station G-335 is located at the south east corner of STA-2. This 3,040 cubic foot per pump station discharges treated water into the L-6 Canal for delivery to Water Conservation Area 2A. Enhancements to this STA including expansion by approximately 2,000 acres are part of the Long-Term Plan and are not included in the project costs and schedules shown below.

*** Cost (Estimate):**

Total:	\$126,105,249
(1) Project Development:	\$ 4,382,696
Land Acquisition:	\$ 30,780,094
(2) Implementation:	\$ 59,889,158
Operations and Maintenance:	\$ 31,053,301

Project Schedule:

Completion Date: December 2000 (construction)

	FY 1994 - FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009 - FY 2016
Project Development						
Land Acquisition						
Implementation						
Operations and Maintenance						

*** Detailed Project Budget Information**

	Actual FY 1994-04	Projected FY 2005	Projected FY 2006	Projected FY 2007	Projected FY 2008	Balance to complete	Total
Federal							
State	\$98,727,266	\$1,684,960	\$1,612,183	\$2,100,148	\$2,163,692	\$19,817,000	\$126,105,249
Tribal							
Local							
Other							
Total	\$98,727,266	\$1,684,960	\$1,612,183	\$2,100,148	\$2,163,692	\$19,817,000	\$126,105,249

- Cost data reflects actual inception-to-date expenditures through September 30, 2004 and current preliminary cost estimate projections.

- (11) Project Development includes Design Phase [contracts & staff costs] costs.
- (12) Implementation includes all Construction [contracts & contingency] and Construction Management [contracts & staff costs] costs.

Point of Contact: Steve Poonaisingh, (561) 682-2934

Program Name: Restoration Program: Hydrological Restoration, Water Quality
Project Name: STA-3/4 Works
Project ID: 1510
Lead Agency: South Florida Water Management District
Authority: Florida's Everglades Forever Act

Strategic Plan Goal(s) Addressed: Getting the Water Right

Measurable Output(s): Acres of stormwater treatment area (16,600 acres)

Project Synopsis: STA-3/4 treats the area tributary to Pump Station S-7 and S-8 and provides a total effective treatment area of 16,600 acres extending generally from the Holey Land Wildlife Management Area to U.S. Highway 27. The major components of STA-3/4 are the Inflow Pump Stations G-370 and G-372, gated spillways G-371 and G-373, STA-3/4 Works, Supply Canal, and U.S. Highway 27 Bridge Relocation. The STA-3/4 treatment facilities were substantially completed in 2003 and treatment operations began in the spring of 2004. The G-371 and G-373 gated spillways were completed in 2005. Enhancements to this STA are part of the Long-Term Plan and are not included in the project costs and schedules shown below.

*** Cost (Estimate):**

Total:	\$210,942,148
(1) Project Development:	\$ 7,443,548
Land Acquisition:	\$ 50,402,532
(2) Implementation:	\$127,793,311
Operations and Maintenance:	\$ 25,302,757

Project Schedule:

Completion Date: October 2005 (construction)

	FY 1994 - FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009 - FY 2016
Project Development						
Land Acquisition						
Implementation						
Operations and Maintenance						

*** Detailed Project Budget Information**

	Actual FY 1994-04	Projected FY 2005	Projected FY 2006	Projected FY 2007	Projected FY 2008	Balance to complete	Total
Federal							
State	\$165,105,258	\$5,279,536	\$3,281,945	\$3,251,261	\$3,349,148	\$30,675,000	\$210,942,148
Tribal							
Local							
Other							
Total	\$165,105,258	\$5,279,536	\$3,281,945	\$3,251,261	\$3,349,148	\$30,675,000	\$210,942,148

• **Cost data reflects actual inception-to-date expenditures through September 30, 2004 and current preliminary cost estimate projections.**

- (13) Project Development includes Design Phase [contracts & staff costs] costs.
- (14) Implementation includes all Construction [contracts & contingency] and Construction Management [contracts & staff costs] costs.

Point of Contact: Steve Poonaisingh, (561) 682-2934

Program Name: Restoration Program: Hydrological Restoration, Water Quality

Project Name: STA-5 Works

Project ID: 1511

Lead Agency: South Florida Water Management District

Authority: Florida's Everglades Forever Act

Strategic Plan Goal(s) Addressed: Getting the Water Right

Measurable Output(s): Acres of stormwater treatment area (4,118 acres).

Project Synopsis: STA-5 is bordered by L-3 on the west and immediately east of and adjacent to the Rotenberger Wildlife Management Area in Hendry County, and provides treatment of water discharged from the C-139 Basin. STA-5 provides a total effective treatment area of 4,118 acres. Major components of this STA include construction of eight gravity control structures which convey flows into and out of STA-5 treatment cells, 18 miles of canal and levee construction, eight intermediate concrete culverts with fixed weirs, modifications to the existing L-3 Levee, seepage return pump stations, (2) water supply pump stations and construction of a discharge canal. This STA consists of two parallel treatment cells with flow direction from west to east. Enhancements to this STA including expansion by approximately 2,000 acres are part of the Long-Term Plan and are not included in the project costs and schedules shown below.

*** Cost (Estimate):**

Total:	\$ 44,434,803
(1) Project Development:	\$ 1,408,508
Land Acquisition:	\$ 15,498,109
(2) Implementation:	\$ 16,163,569
Operations and Maintenance:	\$ 11,364,617

Project Schedule:

Completion Date: Approx. January 1999 (construction of treatment works)

	FY 1994 - FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009 - FY 2016
Project Development						
Land Acquisition						
Implementation						
Operations and Maintenance						

*** Detailed Project Budget Information**

	Actual FY 1994-04	Projected FY 2005	Projected FY 2006	Projected FY 2007	Projected FY 2008	Balance to complete	Total
Federal							
State	\$35,219,202	\$964,164	1,462,397	\$592,063	\$609,977	\$5,587,000	\$44,434,803
Tribal							
Local							
Other							
Total	\$35,219,202	\$964,164	1,462,397	\$592,063	\$609,977	\$5,587,000	\$44,434,803

- **Cost data reflects actual inception-to-date expenditures through September 30, 2004 and current preliminary cost estimate projections.**

(15) Project Development includes Design Phase [contracts & staff costs] costs.

(16) Implementation includes all Construction [contracts & contingency] and Construction Management [contracts & staff costs] costs.

Point of Contact: Steve Poonaisingh, (561) 682-2934

Program Name: Restoration Program: Hydrological Restoration, Water Quality
Project Name: STA-6 (includes Sections 1 and 2)
Project ID: 1512
Lead Agency: South Florida Water Management District
Authority: Florida's Everglades Forever Act

Strategic Plan Goal(s) Addressed: Getting the Water Right

Measurable Output(s): Acres of stormwater treatment area (Section 1 - 812 acres; Section 2 - 1,410 acres).

Project Synopsis: STA-6 Section 1 was completed on October 31, 1997, and is located immediately west of the Rotenberger Wildlife Management Area and north of Levee L-3 in southeastern Hendry County. It was constructed to provide a total effective STA area of 870 acres. Project components included, but were not limited to, construction of various inflow and discharge structures, discharge canal and levee. STA-6 Section 2 will involve the addition of 1,410 acres of effective treatment area to treat runoff from US Sugar Corporation's Southern Division Unit 1. The improvements consist primarily of new inflow, outflow, exterior and perimeter levees, inflow structures and outflow structures, new access bridges and seepage return pumps. STA-6 Section 2 is currently being implemented as part of the Acceler8 program. Cost estimates shown below are approximate and does not include operations and maintenance costs for STA-6 Section 2. These costs are yet to be determined.

*** Cost (Estimate):**

Total:	\$ 35,176,236
(1) Project Development:	\$ 755,865
Land Acquisition:	\$ 7,451,810
(2) Implementation:	\$ 22,308,208
Operations and Maintenance:	\$ 4,660,353 (Does not include O&M for Section 2)

Project Schedule:

Expected Completion Date: Flow capable STA-6 Section 2 by December 2006

	FY 1994 - FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009 - FY 2016
Project Development						
Land Acquisition						
Implementation						
Operations and Maintenance						

*** Detailed Project Budget Information**

	Actual FY 1994-04	Projected FY 2005	Projected FY 2006	Projected FY 2007	Projected FY 2008	Balance to complete	Total
Federal							
State	\$10,666,476	\$3,908,587	\$11,439,368	\$3,315,355	\$575,450	\$5,271,000	\$35,176,236
Tribal							
Local							
Other							
Total	\$10,666,476	\$3,908,587	\$11,439,368	\$3,315,355	\$575,450	\$5,271,000	\$35,176,236

- (17) **Cost data reflects actual inception-to-date expenditures through September 30, 2004 and current preliminary cost estimate projections.**
- (18) Project Development includes Design Phase [contracts & staff costs] costs.
- (19) Implementation includes all Construction [contracts & contingency] and Construction Management [contracts & staff costs] costs.

Point of Contact: Steve Poonaisingh, (561) 682-2934

Program Name: Restoration Program: Hydrological Restoration, Water Quality
Project Name: C&SF: STA-1E / C-51 West
Project ID: 1513
Lead Agency: USACE / SFWMD
Authority: FCA 1968, WRDA 1996
Funding Source: N/A - Completed

Strategic Plan Goal(s) Addressed: 1.B.1

Measurable Output(s): Acres of stormwater treatment area (STA) (target: 6,500 acres)

Project Synopsis: The project is located in Palm Beach County and runs east/west from Water Conservation Area 1 (Loxahatchee National Wildlife Refuge) to West Palm Beach at Lake Worth. The authorized project will provide 30-year flood protection to the urbanized eastern basin and 10-year flood protection to the western basin. All eastern basin features have been completed. This project will operate in parallel with STA 1W to reduce the total phosphorus in runoff from both the C-51 West and S 5A basins prior to their discharge into Water Conservation Area 1. During mediation of the Everglades litigation, a technical mediated plan was developed for resolution of the litigation. The technical mediated plan included a substantially modified C-51 project. The modified plan expands the original 1,600-acre floodwater detention area into a 6,500-acre STA. In addition to the flood damage reduction benefits provided by the original project, the modified plan provides water quality treatment, reduction of damaging freshwater discharges to Lake Worth, and increased water supply for the Everglades and other users. Major project components include, but are not limited to, construction of the following: STA 1E works, pumping station S-319 and S-362, Canal C-51 enlargement, and gated structure S-155A. These works have been completed and transferred to the SFWMD. A field test of periphyton treatment is underway.

Cost: \$284,800,000

Project Schedule:

Start Date: 1994
Finish Date: 2008

	Thru 2002	2003	2004	2005	2006	2007	2008
Planning & Design							
Real Estate							
Construction							
O&M							

Detailed Project Budget Information (\$1000):

	Thru 2004	2005	2006	2007	2008	Total
USACE	191,577	3,756	3,756	3,756	3,756	206,600
SFWMD	28,919	820	820	820	820	32,200
DOI	46,000	0	0	0	0	46,000
Total	266,496	4,576	4,576	4,576	4,576	284,800

Contact: David Tipple, Chief North/Central Florida Restoration Branch, USACE
(904) 232-1375, David.A.Tipple@saj02.usace.army.mil

Program Name: Water Quality
Project name: Total Maximum Daily Load (TMDL) for South Florida
Project ID: 1600
Lead Agency: FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Authority: 403.067, F.S.
Funding Source:

Strategic Plan Goal(s) Addressed: 1.B.2

Measurable Output(s): Basin Assessments, Identifying Impaired Waters, Supplemental Data Collection, Develop TMDLs, Implementation Plans, Verification WQ Standards have been met

Project Synopsis: During the first phase, the water quality data for each basin will be assessed in detail, including the identification of waters for which TMDLs will be developed. Once a basin assessment report and a Plan of Study are completed, intensive monitoring will be conducted in the basin to supply any additional data needed to model the impaired waters in the basin and generate TMDLs. During the third phase, TMDLs will be calculated and then allocated to individual point sources and the major categories of nonpoint sources. After TMDLs are approved, a consensus-based basin management action plan (BMAP), which will include a TMDL implementation plan, will be developed during the fourth phase. The implementation plan will include more detailed allocations to nonpoint sources, but the allocations will be voluntary if the sources are currently outside of the State's regulatory authority. Once these plans have been adopted and implemented, verification (using added WQ monitoring data, evaluations of beach closure reports, or number of fish kills, for example) will allow waters to be certified as meeting water quality standards.

Cost:
 Total: \$1,000,000/yr
 Project Development: \$1,000,000/yr
 Land Acquisition: Unknown
 Implementation: Unknown
 Operations and maintenance: Unknown

Project Schedule:
 Start Date: July 1, 2000
 Finish Date: Upon Completion (Current schedule runs to 2011)

Detailed Project Budget Information(1000s)

	Thru 2001	2002	2003	2004	2005	2006	Balance to complete	Total
Federal								
State	400	600	600	600	600	930		3,800
Tribal								
Local								
Other								
Total	400	600	600	600	600	930,000		3,730

Hyperlink: <http://www.dep.state.fl.us/water/tmdl/index.htm>
Contact: Florida Dept. of Environmental Protection

Program Name: Restoration Program: Hydrological Restoration, Water Quality
Project Name: Chapter 298 Districts/Lease 3420 Improvements
Project ID: 1700
Lead Agency: South Florida Water Management District
Authority: Florida's Everglades Forever Act

Strategic Plan Goal(s) Addressed: Getting the Water Right

Measurable Output(s): Extent of reduction of total phosphorus entering Lake Okeechobee.

Project Synopsis: South Florida Water Management District funded works of the Chapter 298 District (East Beach Water Control District, East Shore Water Control District, South Shore Drainage District and South Florida Conservancy District) for the design and construction of these diversion works as described in the Everglades Forever Act. South Florida Water Management District also funded works of the Lessee of Lease No. 3420 (Closter Farms) for the design and construction of diversion works described in the Everglades Forever Act. The primary objective of these improvements is to reduce total phosphorus loads discharged directly to Lake Okeechobee. All projects are complete and are in operation.

*** Cost (Estimate):**

Total:	\$ 21,484,508
(1) Project Development:	\$ 779,995
Land Acquisition:	\$ -
(2) Implementation:	\$ 20,704,513
Operations and Maintenance:	\$ -

Project Schedule:

Completion Date: September 2005

	FY 1994 - FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009 - FY 2016
Project Development						
Land Acquisition						
Implementation						
Operations and Maintenance						

*** Detailed Project Budget Information**

	Actual FY 1994-04	Projected FY 2005	Projected FY 2006	Projected FY 2007	Projected FY 2008	Balance to complete	Total
Federal							
State	\$21,464,508	\$20,000	-	-	-	-	\$21,484,508
Tribal							
Local							
Other							
Total	\$21,464,508	\$20,000	-	-	-	-	\$21,484,508

(20) **Cost data reflects actual inception-to-date expenditures through September 30, 2004 and current preliminary cost estimate projections.**

(21) Project Development includes Design Phase [contracts & staff costs] costs.

(22) Implementation includes all Construction [contracts & contingency] and Construction Management [contracts & staff costs] costs.

Point of Contact: Steve Poonasingh, (561) 682-2934

Program Name: Infrastructure
Project Name: Comprehensive Integrated Water Quality Feasibility Study
Project ID: 1701
Lead Agency: USACE / FDEP
Authority: WRDA 1996
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: Other

Measurable Output(s): Feasibility Report

Project Synopsis: The Comprehensive Integrated Water Quality Feasibility Study for south Florida would involve identifying pollution-impaired water bodies, quantifying types and sources of pollution, establishing interim and final pollution load reduction targets necessary to achieve ecosystem restoration, recommendations for development of potential source reduction programs, recommendations for baseline and future water quality monitoring programs to assess ecological responses to water quality changes, and recommendations for designing and constructing water quality treatment facilities, if necessary. It is also envisioned that the feasibility study will address issues of fragmented, uncoordinated water quality sampling, data quality, and climatological effects and trends; recommendations for oversight and support of improved water quality modeling efforts in south Florida; development of additional water quality restoration targets, where needed; recommendations for remediation programs to achieve those targets; recommendations for Best Management Practices in specific agricultural and urban areas where appropriate (including identifying those urban areas where participation in the NPDES municipal stormwater program is needed); and recommendations for synchronizing water quality restoration programs with the implementation schedule for the components of the recommended plan. The Comprehensive Integrated Water Quality Feasibility Study would also include recommendations for locations of water storage and treatment areas and design features for optimizing CERP components to achieve water quality restoration targets. The Comprehensive Integrated Water Quality Feasibility Study may also lead to recommendations for additional features (e.g., polishing cells, operational features) for CERP components currently lacking specific water quality performance elements.

Cost: \$8,100,000

Project Schedule:

	2006	2007	2008	2009	2010
Planning & Design					

Detailed Project Budget Information (\$1000)

	Thru 2004	2006	2007	2008	2009	2010	Total
USACE	735	663	663	663	663	663	4,050
FDEP	0	810	810	810	810	810	4,050
Total	735	1,473	1,473	1,473	1,473	1,473	8,100

Hyperlink: <http://www.evergladesplan.org/pm/studies/ciwq.cfm>

Contact: USACE

Source: Budget information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress*.

Program Name: Infrastructure
Project Name: Critical Projects - Lake Trafford
Project ID: 1702
Lead Agency: USACE / SFWMD
Authority: WRDA 1996
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: Other **Secondary:**2.A.3

Measurable Output(s): Removal of 8.5 million cubic yards of organic material

Project Synopsis: The removal of 8.5 million cubic yards of organic material from the lake will improve water quality and reestablish native vegetation. SFWMD is constructing the project.

Cost: \$30,043,000

Project Schedule:

Start Date: 1999
 Finish Date: 2005

	1999	2000	2001	2002	2003	2004	2005
Planning & Design							
Real Estate							
Construction							

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	Total
USACE	1,602	0	1,602
SFWMD	6,285	22,156	28,441
Total	7,887	22,156	30,043

Contact: USACE

Program Name: Infrastructure
Project Name: E&SF: Critical Projects - Western C-11 Water Quality Treatment
Project ID: 1703
Lead Agency: USACE / SFWMD
Authority: WRDA 1996
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: Other

Measurable Output(s): Gated spillway structure, pump station

Project Synopsis: This project includes construction of a gated spillway structure in the C-11 canal, which will separate clean seepage flows from urban stormwater drainage. A pump station has been constructed to pump this clean flow into Water Conservation Area 3A. Construction of pump station S-9A was completed in August 2002. Construction of re-designed spillway S-381 was completed in 2005.

Cost: \$18,315,000

Project Schedule:

Start Date: 1997
 Finish Date: 2005

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Design									
Construction									

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	Total
USACE	8,044	1,191	9,235
SFWMD	7,168	1,912	9,080
Total	15,212	3,103	18,315

Hyperlink: <http://www.saj.usace.army.mil/projects/newrpt.htm>
Contact: USACE

Program Name: Restoration Program: Water Quality
Project Name: Development of Best Management Practices Related to the Land Application of Residuals and Chicken Manure in the Lake Okeechobee Watershed
Project ID: 1704
Lead Agency: South Florida Water Management District
Funding Source: SFWMD Ad Valorem; EPA 319

Strategic Plan Goal(s) Addressed: Other

Measurable Output(s): Establishment of Environmentally-Sound Guidelines for Land Application of Residuals and Chicken Manure

Project Synopsis: The overall objective of this project is to assess the potential impacts of residuals (sludge) and chicken manure application on the quality of water reaching Lake Okeechobee. The specific objectives are to (1) document any exiting environmental problems associated with their use, (2) establish environmentally-sound guidelines for the land application of residuals and chicken manure, and (3) educate landowners in the watershed on the proper management and use of the waste materials.

Cost:

Total	\$421,633 + (subject to contract bids and negotiations)
Project Development	\$20,000 + (subject to contract bids and negotiations)
Land Acquisition	N/A
Implementation	\$401,633
Operations and Maintenance	N/A

Project Schedule:

Start Date: 2000
 Finish Date: 2005 (project terminated – project site land use change)

Detailed Project Budget Information (\$1000)

	Thru 2005	2006	2007	2008	Balance to complete	Total
Federal EPA	227.671					227.671
State SFWMD	193.962					193.962
Tribal						
Local						
Other						
Total	421.633					421.633

Hyperlink: N/A

Contact: Jim Laing, (561) 682-6667

Program Name: Infrastructure
Project Name: Everglades National Park Water and Wastewater
Project ID: 1705
Lead Agency: National Park Service
Authority:
Funding Source:

Strategic Plan Goal(s) Addressed: Primary: Other

Measurable Output(s): Number of water and wastewater systems that are rehabilitated or replaced

Project Synopsis: This project will rehabilitate or replace 28 water and wastewater systems in two districts of Everglades National Park. A large percentage of the existing water and wastewater systems within the park were constructed over 35 years ago when the public health and environmental standards were not as fully evolved as they are today. While originally constructed to code, all of the systems are in non compliance with environmental regulations and standards for operating a public water supply. This rehabilitation effort would modify or replace all of the existing systems with new systems that offer the full level of public health and environmental protection that present day standards require. The final result will be potable water systems properly designed to provide safe, clean water and wastewater that is sufficiently treated to fully protect the fragile water resources within Everglades National Park.

Cost:
Total \$18,965,000

Project Schedule:
 Start Date: 1997
 Finish Date: January 31, 2006

	1997	1998	1999	2000	2001	2002	2003	2004
Construction								

Detailed Project Budget Information (\$1,000)

	Thru 1999	2000	2001	2002	2003	2004	Balance to complete	Total
Federal	3,516	1,894	2,883	4,192	4,594	286	1,600	18,965
State								
Tribal								
Local								
Other								
Total	3,516	1,894	2,883	4,192	4,594	286	1,600	18,965

Hyperlink: N/A
 Contact: Michael Jester, 305 242 7771

Program Name: Restoration Program: Water Quality Source Controls
Project Name: Everglades Regulation Division
Project ID: 1706
Lead Agency: South Florida Water Management District
Authority: Everglades Forever Act (EFA)
Funding Source: Long-term Plan allocated funds and Everglades Agricultural Privilege Tax

Strategic Plan Goal(s) Addressed: I.B.3

Measurable Output(s): Mandatory BMP Program Compliance Model Results; Implementation of Basin Specific Water Quality Improvement Plans; Long-term Compliance Permit.

Project Synopsis: As a result of the EFA, the SFWMD established the Everglades Regulation Division. The Division includes two main sub-components of the Everglades Construction Project (ECP) and the Non-ECP, respectively, the Everglades Agricultural Area (EAA) and C-139 basin Best Management Practices (BMPs) Regulatory Program (ECP) and the Everglades Stormwater Program (Non-ECP). The EAA/C-139 BMP Program includes a regulatory program developed to decrease phosphorus loads from the EAA and C-139 basins by reducing phosphorus from permittee discharges prior to downstream treatment in stormwater treatment areas. Permittees in the EAA have implemented a series of best management practices that have reduced phosphorus loads to the Everglades. For the 10 years that the program has been in place, the total phosphorus loads attributable to the EAA have been reduced each year by more than the 25% reduction requirement averaging greater than 50%. The C-139 basin BMP regulatory program was initially implemented in 2002, and BMPs are being implemented at the highest level described by rule and compliance monitoring continues. The Everglades Stormwater Program was developed to ensure that all basins discharging directly into the Everglades meet state water quality standards. Water quality improvement strategies have been developed for each basin that discharges into the Everglades Protection Area. These strategies include best management practices, regulatory programs, public outreach, and construction of public works projects.

Cost:

Total	N/A
Project Development	N/A
Land Acquisition	N/A
Implementation	N/A
Operations and Maintenance	N/A

Project Schedule:

Start Date: March 1998
Finish Date: December 2016

Detailed Project Budget Information (1000s)

	Through 1999	2000	2001	2002	2003	2004	2005	2006	Balance to complete	Total
Federal										
State	4,000	1,954	1,960	1,866	1,998	2,245	3,446	4,236		
Tribal										
Local										
Other										
Total	4,000	1,954	1,960	1866	1,998	2,245	3,446	4,236		TBD

Hyperlink: <http://www.sfwmd.gov/org/reg/esp/index.html>

Contact: Pam Sievers (561) 682-6901

Program Name: Management
Project name: Floridan Aquifer Restoration
Project ID: 1707
Lead Agency: USDA - NRCS
Authority: PL-46
Funding Source:

Strategic Plan Goal(s) Addressed: Primary: Other

Measurable Output(s): Reduced Aquifer Contamination

Project Synopsis: Saline aquifer water will cause well casings to corrode and eventually leak causing cross aquifer contamination caused by artesian flow from the Floridan. This project seeks to permanently decommission irrigation wells via plugging in St. Lucie County in order to reduce saline water from the Floridan Aquifer by leaking well casings transferring groundwater into the surficial aquifer used for drinking.

Cost:
 Total: \$900,000
 Project Development
 Land Acquisition
 Implementation \$900,000
 Operations and maintenance:

Project Schedule:
 Start Date: 2002
 Finish Date: 2006

Detailed Project Budget Information (\$1000s)

	Thru 2004	2005	2006	2007	2008	2009	2010	Total
Federal	\$50	\$100	\$100					\$250
State	\$150	\$150	\$150					\$450
Tribal								
Local								
Other	\$100	\$50	\$50					\$200
Total	\$300	\$300	\$300					\$900

Hyperlink: N/A
Contact: Donna Smith – 772-467-9779 USDA – NRCS

Program Name: Restoration Program: Hydrological Restoration, Water Quality
Project Name: S-5A Basin Runoff Diversion Works
Project ID: 1713
Lead Agency: South Florida Water Management District
Authority: Florida's Everglades Forever Act

Strategic Plan Goal(s) Addressed: Getting the Water Right

Measurable Output(s): Reduce phosphorus levels before it enters the Everglades Protection Area (EPA).

Project Synopsis: S-5A Basin Runoff Diversion Works is located in western Palm Beach County at the confluence of the Hillsboro and Ocean Canals in the Everglades Agricultural Area (EAA). The project diverts flow from the S-5A Basin into STA-2 for treatment. This project included enlargement of approximately 17 miles of the Hillsboro and Ocean Canals in approximately 2001 and the construction of a water control structure (G-341) which was completed in June 2005.

*** Cost (Estimate):**

Total:	\$ 12,417,593
(1) Project Development:	\$ 408,815
Land Acquisition:	\$ 1,902,688
(2) Implementation:	\$ 9,482,068
Operations and Maintenance:	\$ 624,022

Project Schedule:

Completion Date: June 2005

	FY 1994 - FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009 - FY 2016
Project Development						
Land Acquisition						
Implementation						
Operations and Maintenance						

*** Detailed Project Budget Information**

	Actual FY 1994-04	Projected FY 2005	Projected FY 2006	Projected FY 2007	Projected FY 2008	Balance to complete	Total
Federal							
State	\$11,440,622	\$334,378	49,892	\$51,387	\$53,314	\$488,000	\$12,417,593
Tribal							
Local							
Other							
Total	\$11,440,622	\$334,378	49,892	\$51,387	\$53,314	\$488,000	\$12,417,593

(23) **Cost data reflects actual inception-to-date expenditures through September 30, 2004 and current preliminary cost estimate projections.**

(24) Project Development includes Design Phase [contracts & staff costs] costs.

(25) Implementation includes all Construction [contracts & contingency] and Construction Management [contracts & staff costs] costs.

Contact: Steve Poonaisingh, (561) 682-2934

Program Name: Restoration Program: Hydrological Restoration, Water Quality
Project Name: STA-1 Inflow and Distribution Works
Project ID: 1719
Lead Agency: South Florida Water Management District
Authority: Florida's Everglades Forever Act

Strategic Plan Goal(s) Addressed: Getting the Water Right

Measurable Output(s): Reduce phosphorus levels in outflows from the STAs as directed in the Everglades Forever Act.

Project Synopsis: STA-1 Inflow and Distribution Works is located in Western Palm Beach County, just north of the Water Conservation Area No. 1 (Loxahatchee National Wildlife Refuge). This project redirects the discharge from S-5A Pump Station via the L-40 and L-7 Borrow Canals to STA-1 West and STA-1 East. The project scope includes the construction of four water control structures (G-300, G-301, G-302, G-311), and associated bypass canals, a separation levee extending from L-7 to L-40 and an inflow canal and perimeter levee leading to the STA-1W project.

*** Cost (Estimate):**

Total:	\$ 12,026,836
(1) Project Development:	\$ 1,090,618
Land Acquisition:	\$ -
(2) Implementation:	\$ 10,936,218
Operations and Maintenance:	\$ Included with STA-1 West

Project Schedule:

Completion Date: September 2005 (including structure G-311, inflow structure for STA-1E)

	FY 1994 - FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009 - FY 2016
Project Development						
Land Acquisition						
Implementation						
Operations and Maintenance						

*** Detailed Project Budget Information**

	Actual FY 1994-04	Projected FY 2005	Projected FY 2006	Projected FY 2007	Projected FY 2008	Balance to complete	Total
Federal							
State	\$10,366,036	\$1,660,800	-	-	-	-	\$12,026,836
Tribal							
Local							
Other							
Total	\$10,366,036	\$1,660,800	-	-	-	-	\$12,026,836

(26) **Cost data reflects actual inception-to-date expenditures through September 30, 2004 and current preliminary cost estimate projections.**

(27) Project Development includes Design Phase [contracts & staff costs] costs.

(28) Implementation includes all Construction [contracts & contingency] and Construction Management [contracts & staff costs] costs.

Contact: Steve Poonasingh, (561) 682-2934

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Goal 2 Project Sheets

**Restore, Preserve, and Protect
Natural Habitats and Species**





*Goal 2: Restore, Preserve, and Protect
Natural Habitats and Species*

Subgoal 2-A: Restore, preserve, and protect natural habitats.

Objective 2-A.1: Complete acquisition of 5.8 million acres of land identified for habitat protection by 2015.

Objective 2-A.2: Protect 20 percent of the coral reefs by 2010.

Objective 2-A.3: Improve habitat quality for 2.4 million acres of natural areas in South Florida.

Subgoal 2-B: Control invasive exotic plants.

Objective 2-B.1: Coordinate the development of management plans for the top twenty South Florida invasive exotic plant species by 2011.

Objective 1-B.2: Achieve maintenance control of Brazilian pepper, melaleuca, Australian pine, and Old World Climbing Fern on South Florida's public conservation lands by 2020.

Objective 2-B-3: Complete an invasive exotic plant species prevention, early detection, and eradication plan by 2005.

Program Name: Restoration Program: Hydrological Restoration, Water Quality, Habitat and Species,
Project Name: Allapattah Flats/Ranch
Project ID: 2100
Lead Agency: Department of Environmental Protection/South Florida Water Management District
Authority: CARL/SOR

Strategic Plan Goal(s) Addressed: 2.A.1

Secondary: 1.A.1

Measurable Output(s): 35,999 Acres Acquired

Project Synopsis: The Allapattah Flats/Ranch project covers 35,999 acres in western Martin County. The site is dominated by poorly drained flatwoods soils, which are saturated for much of the wet season. Historically, this area was a flatwoods matrix, interspersed with depression marshes and wet prairies. With the exception of the four northern sections that drain to Canal-23, the entire site drains slowly to the southeast to the South Fork of the St. Lucie River. Over the past 30 years, the project area has undergone a change in land use from native range grazing to improved pasture, sod farms, and row crops. Most of the understory has been cleared and planted in non-native pasture grasses. Most of the depression marshes remain; however, most of the wet prairies have been drained and the extreme western boundary. There is good species diversity and many large trees remain.

Restoration of Allapattah Flats will play a key role in the effort to reduce flows from C-23 into the St. Lucie Estuary. Regional attenuation facilities, or Water Preserve Areas, are proposed which would store discharges into the St. Lucie Estuary. After acquisition, about 8,000 acres of the project adjacent to C-23 would be converted to a reservoir to provide approximately 32,000 acre-feet of water storage. Estimates indicate that this would reduce wet season stormwater flows into the estuary by 39%. It is estimated that an additional 14% reduction in discharge to the estuary could be achieved by not draining the property. Completely eliminating stormwater discharges is not possible; however, significant reductions could probably be made by blocking existing drainage ditches.

The Florida Fresh Water Fish and Wildlife Commission would be the lead manager for the non-reservoir areas. The District will take the lead on all hydrologic restoration efforts.

Cost: Total: Project size 35,999. 21,407 acres have been acquired at a cost of \$53,564,222
Project Development
Land Acquisition: 14,592 acres remain to be acquired.
Implementation
Operations and Maintenance

Project Schedule:

Start Date: 1997
Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Through 2004	2005	2006	2007	Balance to complete	Total
Federal						
State	43,643	0				
Tribal						
Local	9,920	0				
Total	53,564	0				TBD
Adjusted Total*	3,776					

*A portion of the acres and costs on this project sheet overlap with Project ID 1101 in Goal 1. The **Adjusted Total** compensates for this overlap by allocating the appropriate costs to this project.

Project Name: Atlantic Ridge Ecosystem
Project ID: 2101
Lead Agency: Florida Department of Environmental Protection/South Florida Water Management District
Authority: CARL/SOR

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 15,698 Acres Acquired

Project Synopsis: The project area is located in southern Martin County, between I-95 and U.S. 1. The project area includes approximately 15,698 acres, which is extremely diverse ecologically. It contains large areas of forested sloughs and high quality flatwoods, as well as one of the largest remaining islands of coastal scrub. The current land use is mostly cattle grazing on unimproved pasture with intense agriculture and residential development occurring around the edges of the project area. However, the project also contains extensive wetland and upland systems. Currently, none of this project is in public ownership.

The purpose of this project is to conserve and protect the high quality habitats and to protect water quality of the South Fork of the St. Lucie River and the North Fork of the Loxahatchee River. The project area forms the headwaters to these rivers and the extensive wetland systems provide a source of groundwater base flow to both rivers. This project will conserve and protect significant habitat for endangered and threatened species such as the Florida scrub jay, the Florida sandhill crane, and the Florida scrub lizard. The area is extremely important for aquifer recharge and water supply to the coastal portion of Martin County.

Cost: Total: Project size 15,698. 11,764 acres have been acquired at a cost of \$80,123,486
 Project Development
 Land Acquisition: 3,934 acres remaining to be acquired
 Implementation
 Operations and Maintenance

Project Schedule:

Start Date: 1995
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Through 2004	2005	2006	2007	2008	Balance to complete	Total
Federal							
State	73,620	0					
Tribal							
Local	6,503	0					
Other							
Total	80,123	0					TBD
Adjusted Total*	47,254						

*A portion of the acres and costs on this project sheet overlap with Project ID 1101 in Goal 1. The **Adjusted Total** compensates for this overlap by allocating the appropriate costs to this project.

Project Name: Babcock Ranch
Project ID: 2102
Lead Agency: FDEP
Authority: Florida Forever Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 91,361 Acres acquired

Project Synopsis: The Babcock Ranch project consists of approximately 91,361 acres in Charlotte and Lee counties. Acquisition of would assist in the creation of a wildlife corridor that would span from Lake Okeechobee to the Gulf of Mexico. The majority of the project area consists of mesic flatwoods with the center of the project dominated by Telegraph Swamp. This ten thousand acre swamp drains most of the project area. Portions of the project provide habitat for the endangered red-cockaded woodpecker, crested caracara, and numerous other plants and animals. The project is proposed primarily as a less-than-fee simple acquisition a portion of the project will be acquired in full fee title. The evaluation team visited the project on September 25, 2001.

The majority of the Babcock Ranch project lies in southeastern Charlotte County; a small part extends into northeastern Lee County. It is contiguous with Fred C. Babcock-Cecil M. Webb Wildlife Management Area (Babcock-Webb WMA) for approximately 6 miles (mostly Babcock Family Reserve portion; proposed Curry Lake conservation easement is contiguous for 0.75 mile) on the west, Fisheating Creek Florida Forever project for approximately 3 miles on the east, and Caloosahatchee Regional Park for approximately 1.5 miles on the south. Bright Hour Watershed conservation easement is situated approximately 12 miles to the north, Hall Ranch Florida Forever project (contiguous with Babcock-Webb WMA) is contiguous with the Babcock Family Reserve portion for approximately 3 miles (it is ca. 4 miles to the northwest of the proposed Curry Lake conservation easement), Hickey Creek Mitigation Park Wildlife and Environmental Area is located less than 1.5 miles to the south, Moya Sanctuary is located less than 1 mile east of the southeast boundary of the proposal, and the Caloosahatchee Ecoscape Florida Forever project and Okaloacoochee Slough State Forest lie 10.5 miles and 15 miles, respectively, to the southeast.

Cost: Total: Project size is 91,361 acres
Project Development
Land Acquisition: 91,361 acres remaining to be acquired.
Implementation
Operations and maintenance

Project Schedule:

Start Date: 2001

Finish Date: Upon completion

	1999	2000	2001	2002	2003	2004	2005	2006	2007
Planning & Design									
Real Estate									
Construction									

Detailed Project Budget Information (\$1000)

	Exp Thru 2004	2005	2006	2007	2008	Balance to complete	Total
Federal							
State	0	0					
Total	0	0					TBD

Program Name: Restoration Program: Habitat and Species
Project Name: Barfield Farms Land Acquisition
Project ID: 2103
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: Primary: 2.A.1

Measurable Output(s): Target 1,367 Acres

Project Synopsis: Barfield Farms is located in extreme southwestern Hendry County, along the edge of Okaloacoochee Slough, and immediately north of the Big Cypress National Preserve. The owner proposes two sections, approximately 1,367 acres, for sale as a conservation easement. The property consists of cypress-dominated strand swamp, deep spike rush/pickerelweed marshes, and maple/cabbage palm hydric hammocks. The owner reports that panthers frequently use the property, and Florida Fish and Wildlife Conservation Commission has designated it Priority 1 panther habitat. The total project acreage is 1,367 acres. No acreage has been acquired to date.

Cost: Total: Project size is 1,367 acres
 Project Development
 Land Acquisition: 1,367 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1998
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Through 2004	2005	2006	2007	2008	2009	Balance to Complete	Total
Federal								
State								
Tribal								
Local								
Other								
Total	0							TBD

Point of Contact: Wanda Caffie-Simpson, (561) 682-6445

Additional information available at www.sfwmd.gov under the heading "Major Projects"

Program Name: Land Acquisition
Project Name: Belle Meade
Project ID: 2104
Lead Agency: FDEP
Authority: CARL Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 28,506 Acres acquired

Project Synopsis: This area of 28,506 acres includes some of the most extensive examples of mature old-growth hydric pine flatwoods in southwest Florida not within other CARL projects. The hydrology of the hydric pine flatwoods and dwarf cypress communities within the project is relatively intact. Three archaeological sites have been recorded within the project boundaries, and additional sites may be present. The area is vulnerable to changes in the timing and amount of water flowing through it. Residential and commercial development spreading from Naples threatens it.

Cost: Total: Project size 28,506 acres. 17,812 acres have been acquired at a cost of \$36,183,158 million
 Project Development
 Land Acquisition: 10,694 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:
 Start Date: 1993
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Thru 2004	2005	2006	2007	2008	Balance to complete	Total
Federal							
State	\$36,183						
Tribal							
Local							
Other							
Total	36,183						TBD

Project Name: Big Bend Swamp/Holopaw Ranch
Project ID: 2105
Lead Agency: FDEP
Authority: Florida Forever

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 59,849 Acres acquired

Project Synopsis: Many kinds of wildlife in the expanses of palmetto prairies, pine flatwoods, and cypress swamps in Osceola County. The Big Bend Swamp project will acquire certain rights from landowners to maintain a link of natural lands between the Bull Creek and Three Lakes Wildlife Management Area, and help the ensure survival of caracara, red-cockaded woodpeckers, sandhill cranes, and other wildlife that require these large natural areas.

Cost: Total: Project size is 59,849 acres. 3,724 acres have been acquired at a cost of \$3,600,000.
 Project Development
 Land Acquisition: 56,125 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:
 Start Date: 2000
 Finish Date: TBD

Detailed Project Budget Information (1000s)

	Thru 2005	2005	2006	2007	2008	Balance to complete	Total
Federal							
State	3,600						3,600
Tribal							
Local							
Other							
Total	3,600						3,600

Program Name: Restoration Program: Hydrological Restoration, Water Quality, Habitat and Species
Project Name: Biscayne Coastal Wetlands Land Acquisition
Project ID: 2106
Lead Agency: Miami-Dade County, Florida Communities Trust, South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 2,241 Acres

Project Synopsis: The Biscayne Coastal Wetlands are divided into three units that total 2,241 acres. The units lie east of L-31E canal, and adjacent to other protected lands acquired as part of Biscayne National Park and Homestead Bayfront Park. All are a mixture of red, black and white mangroves. The three units appear to be in good condition and relatively exotic-free, except along the western edge and along mosquito ditches, where there are Brazilian Pepper and Australian Pine. Acquisition of these areas would add another layer of protection to Biscayne National Park and provide opportunities for a better distribution of fresh water from L-31E. Miami-Dade has acquired 67 acres and has received a matching grant from the Florida Communities Trust. The SFWMD is an acquisition partner with the County and has acquired 77 acres. Some of the properties in this land acquisition project are necessary for the L-31E Flow Redistribution Project. This project falls within the conceptual boundary of the CERP - Biscayne Bay Coastal Wetlands project.

Cost: Total: Project size is 2,241 acres. 144 acres acquired at a cost of \$1,245,168
 Project Development
 Land Acquisition: 2,097 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1998
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Through 2005	2006	2007	2008	2009	2010	Balance to Complete	Total*
Federal								
State	153.5							153.5
Tribal								
Local	1,091.6							1,091.6
Other								
Total	1,245.2							1,245.2
Adjusted Total*	0							

*A portion of the acres and costs on this project sheet overlap with Project ID 1410 in Goal 1. The **Adjusted Total** compensates for this overlap by allocating the appropriate costs to this project.

** Miami-Dade County estimate; SFWMD does not make cost projections on SOR projects--the maximum funding currently authorized for this project is \$1 million.

Point of Contact: Wanda Caffie-Simpson, (561) 682-6445

Additional information available at www.sfwmd.gov under the heading "Major Projects"

Project Name: Bombing Range Ridge
Project ID: 2107
Lead Agency: FDEP
Authority: Florida Forever

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 41,748 Acres acquired

Project Synopsis: Public acquisition of the 41,748 acre Bombing Range Ridge project will conserve and protect significant habitat for native species and endangered and threatened species. Additionally, public acquisition will provide areas, including recreational trails for natural resource based recreation.

Cost: Total: Project size 41,748 with 6,357 acquired at a cost of \$15,003,388.
 Project Development
 Land Acquisition: 35,391 acres remaining to be acquired
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1998
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Thru 2004	2005	2006	2007	2008	Balance to complete	Total
Federal							
State	12,003	3,000					
Tribal							
Local							
Other							
Total	12,003	3,000					TBD

Project Name: Caloosahatchee Ecoscape
Project ID: 2108
Lead Agency: FDEP
Authority: Florida Forever Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 18,497 acres acquired

Project Synopsis: The project encompasses a mosaic of wet prairie, cypress basin and dome swamp, mesic flatwoods, wet flatwoods, depressional marshes and scrub. Clearing and drainage from improved pasture development or farming have impacted the majority of the natural communities on the site. Despite the disturbed plant communities, the project provides important habitat for a variety of listed wildlife species. Most of the land is within the Barron Water Control District and canals have altered the natural hydrology to the extent that no significant natural water resources remain. Eleven archaeological sites are known from the project area; some with material dated to the archaic period.

Cost: Total: Project size 18,497 acres. 3,180 acres acquired at a cost of \$1,948,038
 Project Development
 Land Acquisition: 15,317 acres remaining to be acquired
 Implementation
 Operations and maintenance

Project Schedule:
 Start Date: 1998
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Thru 2004	2005	2006	2007	2008	Balance to complete	Total
Federal							
State	\$1,948	0					
Tribal							
Local							
Other							
Total	1,948	0					TBD

Project Name: Catfish Creek
Project ID: 2109
Lead Agency: FDEP
Authority: CARL Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 14,901 Acres acquired

Project Synopsis: Catfish Creek is a diverse natural area extending over high scrub ridges, interspersed with lakes, next to the pristine shore of Lake Pierce. Natural communities include sandhill, scrub, scrubby flatwoods, mesic flatwoods, xeric hammock, bottomland hardwood forest, basin swamp, sandhill upland lake, wet flatwoods, blackwater stream, seepage slopes, and floodplain swamp, all are in excellent condition. The tract harbors at least 18 state listed rare plant and animal species. Rare or endangered animals include the bald eagle, wood stork, gopher tortoise, and scrub jay.

Cost: Total: Project size 14,901 acres. 10,184 acres have been acquired at a cost of \$47,442,266
 Project Development
 Land Acquisition: 4,717 acres remain to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1990
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Thru 2004	2005	2006	2007	2008	Balance to complete	Total
Federal							
State	\$47,442	0					
Tribal							
Local							
Other							
Total	\$47,442	0					TBD

Program Name: Land Acquisition
Project Name: Charlotte Harbor Estuary/Flatwoods/Cape Haze
Project ID: 2111
Lead Agency: FDEP
Authority: Florida Forever Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 15,054 Acres acquired

Project Synopsis: The project area, located northwest of Fort Myers in Charlotte and Lee Counties, includes 18,708 acres containing the largest and highest quality slash-pine flatwoods left in Southwest Florida. The area contains pockets of old growth that provide habitat for red-cockaded woodpeckers, black bears, and bald eagles, and an occasional Florida panther ranges in the area. Additionally, the tract provides habitat for rare plant communities. Several drainages flow through these flatwoods into the Charlotte Harbor Aquatic Preserve.

Cost: Total: Project size 15,054. 10,603 acres acquired at a cost of \$17,781,504
 Project Development
 Land Acquisition: 4,451 acres remaining to be acquired
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1986
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Thru 2004	2005	2006	2007	2008	Balance to complete	Total
Federal							
State	\$17,174	0					
Tribal							
Local	607	0					
Other							
Total	\$17,781	0					TBD

Hyperlink: <http://www.dep.state.fl.us/stland/oes/carlmain.htm>

Program Name: Restoration Program: Water Quality, Hydrological Restoration, Habitat and Species
Project Name: Corkscrew Regional Ecosystem Watershed (CREW)
Project ID: 2112
Lead Agency: Florida Department of Environmental Protection/South Florida Water Management District
Authority: CARL/SOR

Strategic Plan Goal(s) Addressed: 1, and 2, Getting the Water Right
 Restore, Preserve and Protect the Natural Habitat and Species

Measurable Output(s): Target 64,103 Acres

Project Synopsis: CREW covers 64,103 acres in Lee and Collier counties and is located at the top of the western Big Cypress watershed. It conveys surface water to private, state, and federally protected natural areas, including Corkscrew Swamp Sanctuary, Florida Panther National Wildlife Refuge, and the Everglades National Park. The area supports populations of at least two species of rare and endangered orchids and includes an unusual stand of dwarf bald cypress. Land management will be carried out the SFWMD and the Florida Fish and Wildlife Commission under contract with the SFWMD. The SFWMD has acquired 26,031 acres.

Hydrologic restoration of CREW will restore and protect important habitat for the Florida panther and black bear and will protect the quality of water delivered to Corkscrew Swamp Sanctuary, Florida Panther National Wildlife Refuge, ENP, and Estero Bay. NOTE: Lee County has agreed to cost share this project by purchasing properties equaling the \$10,000,000 appropriated. These properties have been turned over to SFWMD for management.

Cost: Total: Project size is 64,103 acres of which 26,031 have been acquired for a cost of \$49,816,210
 Project Development
 Land Acquisition: 38,072 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1991
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Through 2003	2004	2005	2006	2007	Balance to complete	Total
Federal	\$3,927.1	\$785.6	669.8				\$5,382.5
State	\$20,256.6	\$2,628.4	11,548.6				\$34,433.7
Tribal							
Local	10,000	0	0				\$10,000
Other							
Total	\$34,183.7	\$3,414	\$12,218.4				TBD

*This total includes Critical CREW project lands.

Hyperlink: <http://www.dep.state.fl.us/stland/oes/carlmain.htm>

Project Name: Coupon Bight/Key Deer/Big Pine Key
Project ID: 2114
Lead Agency: FDEP
Authority: CARL Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 3,638Acres acquired

Project Synopsis: The project encompasses virtually all of the undeveloped land between the Coupon Bight Aquatic Preserve and the National Key Deer Refuge on Big Pine Key. It includes the only significant sources of freshwater in the lower Keys which are critical to the survival of the endangered Key Deer. The Pine Rocklands are the best remaining anywhere. The project is habitat for 24 FNAI special plant species and 41 FNAI listed animal species.

Cost: Total: Project size 3,638 acres. 1,476 acres have been acquired at a cost of \$19,123,263
 Project Development
 Land Acquisition: 2,162 acres remaining to be acquired
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1985
 Finish Date: Upon completion

Detailed Project Budget Information(1000s)

	Thru 2004	2005	2006	2007	2008	Balance to complete	Total
Federal							
State	17,734	1,389.2					
Tribal							
Local							
Other							
Total	17,734	1,389.2					TBD

Program Name: Restoration Program: Habitat and Species
Project Name: Cypress Creek/Loxahatchee
Project ID: 2172
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 4,347 Acres

Project Synopsis: Cypress Creek/Loxahatchee project is located in southern Martin and northern Palm Beach Counties, near lands recently acquired in Pal-Mar, and adjacent to Jonathan Dickinson State Park. It is a mixture of land uses and community types. Nearly 3,000 acres are mostly undisturbed natural area, containing a mixture of pine flatwoods, cypress swamps, depression marshes, and wet prairies. This area forms the headwaters of Cypress Creek, which drains to the Northwest Fork of the Loxahatchee River. The remainder of the site is cleared and drained for intense agriculture, including row crops and citrus. Palm Beach County has acquired 1026 acres of the project area under the county's Conservation Lands program. The County was a cost share partner with the SFWMD on 599 of those acres, contributing an 83% share of the acquisition costs. The SFWMD has acquired 3,250 acres.

Cost: Total: Project size is 4,347 acres of which 4,276 has been acquired at a cost of \$44,116,173
 Project Development
 Land Acquisition: 71 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: November 2002
 Finish Date: Until completed

Detailed Project Budget Information (1000s)

	Through 2005	2006	2007	2008	2009	Balance to Complete	Total
Federal							
State	36,407.6						
Tribal							
Local	7,708.5						
Other							
Total	44,116.2						TBD

Refer to CERP component for acquisition schedule.

Additional information available at www.sfwmd.gov under the heading "Major Projects"

Program Name: Restoration Program: Habitat and Species
Project Name: Cypress Creek/Trail Ridge Land Acquisition
Project ID: 2115
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 13,788 Acres

Project Synopsis: Cypress Creek/Trail Ridge is in southwestern St. Lucie County. It is divided into three major tracts that lie north and south of State Road 70. Two tracts (Cypress Creek portion) are contiguous and the third (Trail Ridge) is not. The project gets its name from a large forested wetland system that once extended along the entire eastern edge of the Orlando Ridge south of Indian River County, through Allapattah Flats, and drained into the South Fork St. Lucie River. The Cypress Creek portion is also a CARL project. In 1998, St. Lucie County acquired 3,285 acres through their environmentally sensitive lands program. The total project size is 13,788 acres of which 10,503 acres has been acquired by the state. SFWMD will handle this acquisition project as part of the CERP IRL Project, Cypress Creek Trail Ridge Component.

Cost: Total: Project size is 13,788 acres of which 3,285 have been acquired at a cost of \$3,411,244
Project Development
Land Acquisition: 10,503 acres remaining to be acquired.
Implementation
Operations and maintenance

Project Schedule:

Start Date: 1997
Finish Date: Upon Completion

Detailed Project Budget Information (1000s)

	Through 2004	2005	2006	2007	2008	2009	Balance to Complete	Total
Federal								
State	1,691	0						
Tribal								
Local*	1,720	0						
Other								
Total	3,411	0						TBD
Adjusted Total	969							

Refer to CERP component for acquisition schedule.

*A portion of the acres and costs on this project sheet overlap with Project ID 1101 in Goal 1. The **Adjusted Total** compensates for this overlap by allocating the appropriate costs to this project.

Additional information available at www.sfwmd.gov under the heading "Major Projects"

Program Name: Land Acquisition
Project Name: Devils Garden
Project ID: 2183
Lead Agency: FDEP
Authority: Florida Forever

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 82,508 acres acquired

Project Synopsis: The Devil’s Garden project is located in Hendry and Collier Counties, and is approximately 82,508 acres. This vast project is being proposed to fill a gap in a corridor that will provide a large landscape for the federally endangered Florida panther. There are numerous records of panther use of the property for several years as well as numerous other rare and threatened plants and animals.

Cost: Total: 82,508 acres needed.
 Project Development:
 Land Acquisition: 82,508 acres remaining to be acquired
 Implementation
 Operations and maintenance

Project Schedule:
 Start Date: 2002
 Finish Date: When completed

Detailed Project Budget Information

	Thru 2004	2005	2006	2007	2008	Balance to complete	Total
Federal							
State	\$0						
Tribal							
Local							
Other							
Total	0						TBD

Program Name: Restoration Program: Water Quality, Hydrological Restoration, Habitat and Species
Project Name: East Coast Buffer/Water Preserve Areas
Project ID: 2117
Lead Agency: Florida Department of Environmental Protection/South Florida Water Management District/
U.S. Department of the Interior
Authority: CARL/ SOR

Strategic Plan Goal(s) Addressed:2.A.1

Measurable Output(s): Target 66,809 Acres

Project Synopsis: The East Coast Buffer/Water Preserve Areas project involves acquisition of land located along the eastern side of the Everglades Protection Area in western Palm Beach, Broward, and Miami-Dade Counties. Most of the lands in this project area are undeveloped and include a considerable amount of wetland habitat. Current land uses include very low intensity development, pastureland, and limestone mining. The original East Coast Buffer footprint was based on a land suitability analysis which selected lands primarily on the basis of those needed for controlling seepage from the Everglades.

In addition, these lands are needed to implements several components of the Everglades Restoration Plan developed under the C&SF Project Comprehensive Review Study (CERP). As part of the implementation plan, portions of the project will be used to create a series of surface-water areas that are interconnected and managed as a system of marshlands, reservoirs, water quality treatment areas, and/or aquifer recharge basins. The overall purposes of the CERP projects are to: (1) hold more water in the system by controlling seepage from the Everglades; (2) capture, store, and clean up excess stormwater currently lost to tide; (3) provide a buffer between the urban area and the Everglades; and (4) protect and conserve wetlands and habitat values outside the remaining Everglades. Restoration benefits include improved water supply for restoring hydropatterns of the Everglades, improved water quality and preservation of wetland habitat.

Because of the extreme development pressure in this area, it is critical that this project be completed as quickly as possible before target parcels are developed or permitted for development.

Cost: Total: Project size is 66,809 acres of which 21,946 have been acquired at a cost of \$374,124,976
 Project Development
 Land Acquisition: 44,863 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1994
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Through 2004	2005	2007	2008	Balance to complete	Total
Federal	72,483.740	0				72,483.740
State	272,928.640	0				272,928.640
Tribal						
Local**	14,912.4	13,800.2				28,712.6
Total	360,324.786	13,800.2				TBD
Adjusted Total	120,745					

*A portion of the acres and costs on this project sheet overlap with Project ID 1405 in Goal 1. The **Adjusted Total** compensates for this overlap by allocating the appropriate costs to this project.

**Includes \$8,276,165 of land acquisitions by Palm Beach County; and \$4,224,440 of funding from Broward County.

Hyperlink: <http://www.dep.state.fl.us/stland/oes/carlmain.htm>

Program Name: Land Acquisition
Project Name: Estero Bay
Project ID: 2118
Lead Agency: FDEP
Authority: CARL Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 15,572 Acres acquired

Project Synopsis: Much of the Estero Bay Project is comprised of wetlands fronting Estero Bay (mangrove swamp, salt marsh, and salt flats). These communities provide nutrients to the Bay, contributing substantially to its biological productivity. The Bay, one of the most productive estuaries in the State, supports a diversity of wildlife, including the federally endangered bald eagle. These communities provide an important nutrient for the Bay, thus contributing to biological productivity. The wetlands are in a natural condition and help maintain high quality of water in the Estero Bay Aquatic Preserve. The project also includes the largest remaining block of rosemary scrub in southwest Florida. Several archaeological sites attributed to the Calusa Indians and their prehistoric ancestors are known to be within the project area. The project is threatened by the rapid residential development in the area.

Cost: Total: Project size 15,572 acres. 9,045 acres have been acquired at a cost of \$ 44,720,290.
 Project Development
 Land Acquisition: 6,528 acres to be acquired
 Implementation
 Operations and maintenance

Project Schedule:
 Start Date: 1985
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Thru 2004	2005	2006	2007	2008	Balance to complete	Total
Federal							
State	44,720	0					
Tribal							
Local							
Other							
Total	44,720	0					TBD

Program Name: Restoration Program: Water Quality, Hydrological Restoration
Project Name: Everglades Agricultural Area (EAA) / Talisman Land Acquisition
Project ID: 2119
Lead Agency: South Florida Water Management District/U.S. Department of the Interior
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 51,210 Acres

Project Synopsis: The District has acquired 50,784 acres in the EAA, purchased at fair market value from willing sellers. The purpose of this project was to acquire strategically located lands in the EAA to be used for regional water storage, detention, and water quality treatment facilities. Ecosystem restoration benefits include: regional water storage that would reduce water currently lost to tide and make it available for hydropattern restoration in the Everglades; pollution prevention through reduction of phosphorus loads; reduced loading of nutrients and other pollutants through implementation of water quality treatment facilities; reduced subsidence; and avoidance of adverse flooding of WCAs and tribal lands during wet years.

Cost: Total: Project size is 51,210 acres . 50,794 acres have been acquired at a cost of \$135,374,902
 Project Development
 Land Acquisition: 416 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1997
 Finish Date: Upon Completion

Detailed Project Budget Information (1000s)

	Through 1999	2000	2001	2002	2003	2004	Balance to complete	Total*
Federal	103,557.459							103,557.459
State	31817.443							31817.443
Tribal								
Local								
Other								
Total	135,374,902							TBD
Adjusted Total	3,390							

*A portion of the acres and costs on this project sheet overlap with Project ID 1103 in Goal 1. The **Adjusted Total** compensates for this overlap by allocating the appropriate costs to this project.

Point of Contact: Wanda Caffie-Simpson, (561) 682-6445
 Additional information available at www.sfwmd.gov under the heading "Major Projects"

Program Name: Land Acquisition
Project Name Fakahatchee Strand
Project ID: 2120
Lead Agency: FDEP
Authority: Florida Forever Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 80,332 Acres acquired

Project Synopsis: Fakahatchee Strand is located in Collier County. Of the subtropical swamps in South Florida, Fakahatchee Strand is perhaps the most significant, being the richest in orchids and other rare tropical plants. It is the most critical to the survival of the Florida panther, and the most important for the mangrove swamps of the Ten Thousand Islands. The project area is probably the best example of the strand swamp found in the United States. It is linked hydrologically to the Everglades system and is important to the estuarine ecosystem of the Ten Thousand Islands.

Cost: Total: Project size 80,332. 60,993 acres have been acquired at a cost of \$24,836,008
Project Development
Land Acquisition: 19,339 acres remaining to be acquired
Implementation
Operations and maintenance

Project Schedule:

Start Date: 1980
Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Thru 2004	2005	Balance to complete	Total
Federal				
State	\$24,743	93		
Tribal				
Local				
Other				
Total	24,743	93		TBD

Hyperlink: <http://www.dep.state.fl.us/stland/oes/carlmain.htm>

Project Name: Fisheating Creek
Project ID: 2121
Lead Agency: Department of Environmental Protection and South Florida Water Management District
Authority: CARL/SOR

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 176,760 Acres Acquired

Project Synopsis: Fisheating Creek, the only free-flowing tributary to Lake Okeechobee, is an extensive riverine swamp flowing through Glades County and emptying into the Lake. The total project area is 168,360 acres. Currently, none of this acreage is in public ownership. The project area contains relatively undisturbed upland and wetland habitats that serve as habitat for the endangered Florida Panther and a number of threatened species, including the Florida black bear, the bald eagle, the Florida scrub jay, and the Florida sandhill crane. The federally listed wood stork and state listed white ibis are known to use the area.

This acquisition will preserve the water quality and critical habitat of this large watershed. Additionally, the acquisition will provide both hydrologic and water quality benefits for Lake Okeechobee, located downstream. When states in Lake Okeechobee are high, Fisheating Creek serves as an important feeding area for wading birds, which typically use the lake marshes. Restoration requirements would be minimal if any, as most of the property remains in a natural state.

Cost: Total: Project size 176,760 acres. 59,910 acres have been acquired at a cost of \$101,928,563
 Project Development
 Land Acquisition: 116,850 remaining to be acquired
 Implementation
 Operations and Maintenance

Project Schedule:

Start Date: 1999
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Through 2004	2005	2006	2007	2008	Balance to complete	Total
Federal							
State	\$101,928	0					
Tribal							
Local							
Other							
Total	\$101,928	0					TBD

Point of Contact: Wanda Caffie-Simpson, (561) 682-6445
 Hyperlink: <http://www.dep.state.fl.us/stland/oes/carlmain.htm>

Project Name: Florida Keys Ecosystem
Project ID: 2122
Lead Agency: FDEP
Authority: CARL Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 8,566 Acres acquired

Project Synopsis: This project, in conjunction with the Complete National Key Deer Refuge proposal, includes the remaining 8,566 acres of tropical hardwood hammocks and pine rocklands of significant size and quality remaining in the Florida Keys from southern Key Largo to Sugarloaf Key.

Cost: Total: Project size 8,566 acres. 1,877 acres have been acquired at a cost of \$37,615,178.
 Project Development
 Land Acquisition: 6,689 acres remaining to be acquired
 Implementation
 Operations and maintenance

Project Schedule:
 Start Date: 1992
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Thru 2004	2005	2006	2007	2008	Balance to complete	Total
Federal							
State	\$35,941	1,674					
Tribal							
Local							
Other							
Total	\$35,941	1,674					TBD

Project name: Frog Pond/L31N
Project ID: 2123
Lead Agency: FDEP
Authority: CARL Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 10,450 Acres acquired

Project Synopsis: Lands border Everglades National Park and are considered critical to the Park's ecosystem, particularly Shark River Slough. The project's water storage capacity helps to prevent excessive flooding and serves as a recharge area for well fields in South Dade. The area is highly vulnerable to development pressure.

Cost: Total: Project size 10,450 acres. 9,713 acres have been acquired at a cost of \$83,623,264
 Project Development
 Land Acquisition: 737 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1982
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Thru 2004	2005	2006	2007	2008	Balance to complete	Total
Federal	\$4,700	0					
State	\$78,923	0					
Tribal							
Local							
Other							
Total	\$83,623	0					TBD

Additional information available at www.sfwmd.gov under the heading "Major Projects"

Project Name: Half Circle L Ranch
Project ID: 2185
Lead Agency: FDEP
Authority: Florida Forever Program

Strategic Plan Goal(s) Addressed: 2.A.1.

Measurable Output(s): 10,500 Acres acquired

Project Synopsis: Located in Collier & Hendry Counties the project is approximately 10,500 acres. There are two owners and sponsored by Turrell and Associates. The project is proposed for fee simple acquisition. FNAI ranks the biological conservation priority for the project as medium high. The project is located within primary habitat zones for the Florida panther and the Florida Black bear, and compliments ongoing conservation efforts in the region.

Cost: Total: 10,500 acres needed.
 Project Development:
 Land Acquisition: 10,500 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:
 Start Date: 2003
 Finish Date: when completed

Detailed Project Budget Information (1000s)

	Thru 2003	2004	2005	2006	2007	2008	Balance to complete	Total
Federal								
State	\$0	0	0					
Tribal								
Local								
Other								
Total	0	0	0					TBD

Program Name: Restoration Program: Habitat and Species
Project Name: Hen Scratch Ranch
Project ID: 2175
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: Restore, Preserve and Protect the Natural Habitat and Species

Measurable Output(s): Target 2,880 Acres

Project Synopsis: This 2,880-acre project is located approximately 2.5 miles west of Lake June-in-Winter in Highlands County, and lies within the tributary watershed of Fisheating Creek. The site contains a variety of habitat community types, including pine flatwoods, scrub, baygall, prairie hammock, and seepage slope. A large stand of cutthroat grass, and endangered plant species, exists in a seep in Section 31. In addition, scrub jays and gopher tortoises are present. There is excellent habitat for sandhill cranes, swallowtail kites, and numerous wading birds. The natural communities are in good condition and fall within strategic habitat conservation areas for several species as identified in the Florida Fish and Wildlife Conservation Commission’s 1994 Closing the Gap Report. No acres have been acquired to date.

Cost: Total: Project size is 2,880 acres
 Project Development
 Land Acquisition: 2,880 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:
 Start Date: 2002
 Finish Date: Upon Completion

Detailed Project Budget Information (1000s)

	Through 2004	2004	2005	2006	2007	2008	Balance to Complete	Total
Federal	0	0	0					
State	0	0	0					
Tribal								
Local								
Other								
Total	0	0	0					TBD

Additional information available at www.sfwmd.gov under the heading “Major Projects”

Project Name: Indian River Lagoon Blueway
Project ID: 2124
Lead Agency: Department of Environmental Protection and South Florida Water Management District
Authority: CARL/SOR

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 5,136 Acres Acquired

Project Synopsis: This project consists of two tracts on Hutchinson Island, in St. Lucie County, totaling 5,136 acres. Approximately 87% of the two tracts are wetlands, dominated by red and black mangroves, with a few freshwater wetlands.

This acquisition is part of a larger effort by several counties in both the SFWMD and St. Johns River WMD to protect, preserve and restore the Indian River Lagoon. These lands represent the only two undeveloped parcels along the Indian River in St. Lucie County that are not in public ownership. Mosquito control impoundments are present on both tracts. Public ownership of these parcels would allow installation of operable water control structures that allow flushing of the mosquito control impoundments during most of the year. This flushing will provide an important source of mangrove detrital matter, which is critical to the health of the estuary. Public ownership will also prevent aerial applications of chemical pesticides for mosquito control.

In 1997, protection was expanded to include lands in Martin County as well.

Cost: Total: Project size 5,136 acres. 1,619 acres have been acquired by the state at a cost of \$18,594,773 million and \$3,333,022 federal contribution
 Project Development
 Land Acquisition: 3,517 acres remaining to be acquired
 Implementation
 Operations and Maintenance

Project Schedule:

Start Date: 1998
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Through 2003	2004	2005	2006	2007	2008	Balance to complete	Total
Federal	\$3,333	0	0					
State	\$18,594	0	0					
Tribal								
Local								
Other								
Total	\$21,927	0	0					TBD

Project name: Juno Hills/Dunes
Project ID: 2125
Lead Agency: FDEP
Authority: CARL Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 590Acres acquired

Project Synopsis: This 440-acre site in Palm Beach County contains one of the largest and best remaining examples of the now rare coastal scrub. The extremely rare four-petal pawpaw, known only from a few sites in the Southeast Florida coastal scrub, and at least three other rare species of scrub plants occur in the Juno Hills project. Such rare animals as the scrub jay, scrub lizard, gopher tortoise, and red widow spider also inhabit the scrub here. Endangered sea turtles nest on the Atlantic beach/dune portion of the property. A remnant portion of coastal hammock is located west of the dune system. Scrubby slash pine flatwoods, disturbed basin swamps, and estuarine tidal swamps cover parts of the project area.

Cost: Total: Project size 590 acres. 576 acres have been acquired at a cost of \$41,892,718
 Project Development
 Land Acquisition: 14 acres remaining to be acquired
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1994
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Thru 2004	2005	2006	2007	2008	Balance to complete	Total
Federal							
State	15,023						
Tribal							
Local	26,869.7						
Other							
Total	41,892.7						TBD

Program Name: Land Acquisition
Project Name: Jupiter Ridge
Project ID: 2176
Lead Agency: FDEP
Authority: Florida Forever

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Acres acquired

Project Synopsis: The Jupiter Ridge Natural Area is one of the best remaining examples of the Florida Scrub ecosystem in Palm Beach County. Less than 2% of the historic Florida scrub still exists in the county, making preservation of this endangered natural community extremely important. This 271-acre natural area is located in the Town of Jupiter. It is bordered on the north by commercial development, on the east by U.S. Highway 1, on the west by the Intracoastal Waterway, and on the south by the Bluffs residential development. Small areas of scrubby flatwoods, mangrove swamp and freshwater wetland ecosystems also are present. These diverse habitats support many threatened and endangered species.

Cost: Total: Project size is 287 acres of which 271 has been acquired for a cost of \$23,099,950
 Project Development
 Land Acquisition: 16 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule: On-going
 Start Date: 1991
 Finish Date: TBD.

Detailed Project Budget Information (1000s)

	Thru 2004	2005	2006	2007	2008	2009	Balance to complete	Total
Federal								
State	\$11,047.6							\$11,047.6
Tribal								
Local	\$12,052.3							\$12,052.3
Other								
Total	\$23,099.9							TBD

Program Name: Land Acquisition
Project name: Kissimmee-St. Johns Connector
Project ID: 2126
Lead Agency: FDEP
Authority: Florida Forever Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 9,463Acres acquired

Project Synopsis: Encompassing the watersheds of the Kissimmee and St. Johns Rivers, the Kissimmee-St. Johns Connector project will provide an approximately 9,463 acre hydrological and habitat connection. Though most of the area has been farmed and ranched for years many of the natural communities are in fair condition. Portions of the project provide habitat for Florida sandhill crane, crested caracara, hand ferns and numerous other plants and animals. The project is proposed primarily as a less-than-fee simple acquisition.

The project lies in northeastern Okeechobee and southwestern Indian River counties. It is contiguous with the Ordway-Whittell Kissimmee Prairie Sanctuary (OWKPS) to the west and the Fort Drum Marsh Conservation Area to the east. Kissimmee Prairie Preserve State Park lies immediately to the west of the OWKPS.

Cost: Total: The project consists of approximately 9,463 acres.
 Project Development
 Land Acquisition: 9,463 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:
 Start Date: 2001
 End Date: TBD

Detailed Project Budget Information (\$1000)

	Exp Thru 2004	2005	2006	2007	2008	Balance to complete	Total
Federal							
State							
Total	\$0	0					TBD

Program Name: Restoration Program: Hydrological Restoration
Project Name: Kissimmee River (Lower Basin) Land Acquisition
Project ID: 2127
Lead Agency: South Florida Water Management District
Authority: Florida Forever

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 68,332 Acres

Project Synopsis: The Lower Basin project includes those lands in the historic river floodplain and along the C-38 canal in Pools B, C and D; Pool A, Chandler Slough, and Istokpoga Canal Basin; all of which are components of the Kissimmee River Restoration Project.

Cost: Total*: Project size is 68,332 acres of which 52,023 acres have been acquired for a cost of \$56,406,882.
 Project Development
 Land Acquisition: 16,309 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1985
 Finish Date: 2005

Detailed Project Budget Information (1000s)

	Through 2003	2004	2005	2006	2007	2008	Balance to complete	Total*
Federal								
State	\$55,856	\$551						\$56,407
Tribal								
Local								
Other								
Total	\$55,856	\$551						TBD

*Total includes lands for several components of the Kissimmee River Restoration project.

Program Name: Restoration Program: Hydrological Restoration
Project Name: Kissimmee River (Upper Basin) Land Acquisition
Project ID: 2128
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: Getting the Water Right

Measurable Output(s): Target 36,763 Acres

Project Synopsis: In the early 1990s it was determined that not enough water would be available in the upper chain of lakes to provide year round base flow for the restored Kissimmee River. As a result the scope of the Kissimmee River Restoration project includes the acquisition of land around the shoreline of the Kissimmee Chain of Lakes between elevations 52.5' and 54.0', comprising approximately 37,000 acres of land of which 34,981 acres have been acquired. This land is needed to support the KRR Headwaters Revitalization Regulation Schedule, which will raise the seasonal high stage in Lakes Kissimmee, Hatchineha and Cypress 1.5' to 54.0' NGVD.

Cost: Total: Project size is 36,763 acres of which 34,981 has been acquired for a cost of \$70,825,219
 Project Development
 Land Acquisition: 1,782 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1990
 Finish Date: 2005

Detailed Project Budget Information(1000s)

	Through 2003	2004	2005	2006	2007	2008	Balance to complete	Total*
Federal								
State	\$70,812	\$14						\$70,825
Tribal								
Local								
Other								
Total	\$70,812	\$14						TBD

*The total includes Kissimmee River Restoration Project Lands.

Additional information available at www.sfwmd.gov under the heading "Major Projects"

Program Name: Land Acquisition
Project name: Lake Wales Ridge Ecosystem
Project ID: 2129
Lead Agency: FDEP
Authority: CARL Program

Strategic Plan Goal(s) Addressed: 2

Measurable Output(s): 13,848 Acres acquired

Project Synopsis: The proposed refuge was authorized in November 1992 and would comprise 12,770 in Osceola and Polk Counties. The area forms the headwaters boundary between the Kissimmee River basin and the Peace River basin. It is the oldest terrestrial ecosystem in the southeast region of the US, and is probably the most threatened ecosystem in South Florida due to citrus conversion, residential housing construction, and commercial development. It supports 24 species of endangered, threatened, and candidate plant species as well as four threatened or endangered animal species. 9,864 acres have been acquired to date.

Cost: Total: Project size 13,848 acres. 10,056 acres acquired at a cost of \$25,507,388
 Project Development
 Land Acquisition: 3,792 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:
 Start Date: 1992
 Finish Date: Upon completion

Detailed Project Budget Information (\$1000)

	Exp Thru 2004	2005	2006	2007	2008	Balance to complete	Total
Federal	\$3,280						
State	21,285	942.4					22,227.4
Tribal							
Local							
Other							
Total	\$24,565	942.4					TBD

Program Name: Restoration Program: Hydrological Restoration, Habitat and Species
Project Name: Loxahatchee Slough Land Acquisition
Project ID: 2132
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 15,200 Acres

Project Synopsis: The Loxahatchee Slough Project is located in Palm Beach County and covers approximately 15,200 acres. It contains a mixture of habitat types, including pine flatwoods, cypress forest, and wet prairie. The present land use is native range. These lands are adjacent to the Loxahatchee Slough Corridor, an area that has been pledged for protection by the current landowner. The District has acquired 1,488 acres; and Palm Beach County has acquired more than 13,693 acres within their Loxahatchee Slough and Hungryland Slough Natural Areas, purchased through their Environmentally Sensitive Lands program and the Unit 11 Regional Offsite Mitigation Area (ROMA). Palm Beach County will lead the land management effort for this project.

The purpose of this project is to provide additional wetland and upland buffer to the Loxahatchee Slough Corridor and to preserve critical foraging and nesting sites for wildlife in an area that is undergoing rapid urban development. This system is important for storing surface water runoff and providing groundwater base flow to Canal 18 and the Loxahatchee River. The slough, which is the initial headwaters of the Loxahatchee River, can also spill over to the south and contribute to the Everglades watershed under certain hydrologic conditions.

Cost: Total: Project size is 15,200 acres. 15,056 acres acquired for \$35,920,793
 Project Development
 Land Acquisition: 144 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1996
 Finish Date: Upon Completion

Detailed Project Budget Information (\$1000)

	Through 2005	2006	2007	2008	Balance to complete	Total
Federal						
State	6,756					6,756
Tribal						
Local	29,164					29,164
Other						
Total	35,920					TBD

Additional information available at www.sfwmd.gov under the heading "Major Projects"

Program Name: Restoration Program: Water Quality, Habitat and Species
Project Name: McDaniel Ranch Land Acquisition
Project ID: 2133
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: Primary: 2.A.1

Measurable Output(s): Target 7,000 Acres

Project Synopsis: McDaniel Ranch covers nearly 23,000 acres in southeastern Hendry County. Total project acreage is 7,000 acres. The property owners have approached the District about selling a conservation easement in conjunction with an application for a surface water management permit. As proposed, the conservation easement would include only those lands not required for the surface water management system. The easement would grant the McDaniel family the following rights: timber management, cattle grazing, lease hunting and eco-tourism. No acreage has been acquired to date.

Cost: Total: Project size is 7,000 acres
 Project Development
 Land Acquisition: 7,000 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:
 Start Date: 2000
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Through 2004	2005	2006	2007	2008	2009	Balance to complete	Total
Federal								
State								
Tribal								
Local								
Other								
Total	0	0						TBD

Point of Contact: Wanda Caffie-Simpson, (561) 682-6445

Additional information available at www.sfwmd.gov under the heading "Major Projects"

Program Name: Land Acquisition
Project name: Dade County Archipelago
Project ID: 2134
Lead Agency: FDEP
Authority: CARL Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 858 Acres acquired

Project Synopsis: This project includes 858 acres in Miami-Dade County and contains some of the most outstanding examples of rockland hammock that remain in Miami-Dade County, as well as the best remaining examples of the highly endangered pine rockland natural community outside of Everglades National Park. The Miami Rockridge Pinelands sites located within the County's urban development boundary are considered upland and developable. All sites are zoned residential, agricultural, or general use. The trees and endemics are also sensitive to adjacent development and agricultural activities.

Cost: Total: Project size 858 acres. 505 acres have been acquired at a cost of \$23,524,235
 Project Development
 Land Acquisition: 353 acres remaining to be acquired
 Implementation
 Operations and maintenance

Project Schedule:
 Start Date: 1994
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Thru 2003	2004	2005	2006	2007	2008	Balance to complete	Total
Federal								
State	11,524	0	0					
Tribal								
Local	12,000	0	0					
Other								
Total	23,524	0	0					TBD

Program Name: Restoration Program: Hydrological Restoration, Habitat and Species
Project Name: Model Lands Land Acquisition
Project ID: 2135
Lead Agency: South Florida Water Management District, Miami-Dade County
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: Primary: 2.A.1

Measurable Output(s): Target 42,402 acres

Project Synopsis: The Model Lands project is located in Miami-Dade County and encompasses the lands between US 1 and Biscayne National Park. The project area of 42,402 acres includes a variety of habitats, both freshwater and estuarine. Lands within the project were identified in the Restudy as necessary for treatment of stormwater from the north and L-31E Canal prior to releasing it to tide or into other project lands to the south. Most of the project lands will be included in the Biscayne Bay Coastal Wetland and C-111 North Spreader Canal, CERP projects. The SFWMD and Miami-Dade County partner in the acquisition of lands for the project. The SFWMD has acquired 6,840 acres and Miami-Dade County has acquired 7,959 acres under their Environmentally Endangered Lands program. The northern portions of the project and the areas near canals, roads, and other areas of disturbance are heavily infested with Australian Pine and Brazilian Pepper. The majority of the project area is undisturbed fresh and saltwater wetlands. These lands form a contiguous habitat corridor with Everglades National Park, Southern Glades SOR project, Biscayne National Park, Crocodile Lakes National Wildlife Refuge, and John Pennekamp State Park.

Cost: Total: Project size is 42,402 acres. 14,799 acres acquired at a cost of \$ 13,065,152
Project Development
Land Acquisition: 27,603 acres remaining to be acquired.
Implementation
Operations and maintenance

Project Schedule:

Start Date: 1994
Finish Date: 2007

Detailed Project Budget Information (\$1000)

	Through 2003	2004	2005	2006	2007	2008	Balance to complete	Total
Federal								
State	\$6,242	\$362	0					\$6,603
Tribal								
Local*	\$6,279	\$183	0					\$6,462
Other								
Total	\$12,520	\$545	0					TBD
Adjusted Total	2,119.7							

*A portion of the acres and costs on this project sheet overlap with Project IDs 1404 and 1415 in Goal 1. The **Adjusted Total** compensates for this overlap by allocating the appropriate costs to this project.

* Miami-Dade acquisitions as of June 30, 2004

Additional information available at www.sfwmd.gov under the heading "Major Projects"

Program Name: Restoration Program: Habitat and Species
Project Name: North Fork St. Lucie River
Project ID: 2138
Lead Agency: Florida Department of Environmental Protection/South Florida Water Management District
Authority: Florida Forever Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 3,800 Acres Acquired

Project Synopsis: This 3,800-acre project includes a stretch of the North Fork approximately 6 miles long, extending from the White City bridge to Canal 24. This project will extend the boundary of the existing publicly owned St. Lucie River Aquatic preserve. More than 80 percent of the project area is comprised of wetlands within the river floodplain. In addition to the river floodplain, this project includes 175 acres of high quality uplands habitat such as high hammock, pine flatwoods, and sand pine scrub.

The purpose of this project is to preserve the floodplain habitat and to protect the water quality of the St. Lucie River from the rapidly encroaching urban development. Floodplain wetlands help decrease current velocities in the river, thereby attenuating flood waters. This action also facilitates recharge of the surficial aquifer and filters out nutrients, pollutants and suspended solids. This stretch of the river is classified as an Outstanding Florida Water. Boating, fishing and canoeing are actively pursued on this part of the river.

Cost: Total: Project size 3,800 acres. 474 acres have been acquired at a cost of \$4,727,047
 Project Development
 Land Acquisition: 3,326 acres remaining to be acquired
 Implementation
 Operations and Maintenance

Project Schedule:

Start Date: 1988
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Through 2004	2004	2005	2006	2007	2008	Balance to complete	Total
Federal								
State	2,962	0	0					2,962
Tribal								
Local	1,765	0	0					1,765
Other								
Total	4,727	0	0					TBD
Adjusted Total	0							

*A portion of the acres and costs on this project sheet overlap with Project ID 1101 in Goal 1. The **Adjusted Total** compensates for this overlap by allocating the appropriate costs to this project.

Hyperlink: <http://www.dep.state.fl.us/stland/oes/carlmain.htm>

Project Name: North Key Largo Hammocks
Project ID: 2139
Lead Agency: FDEP
Authority: Florida Forever Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 4,513 Acres acquired

Project Synopsis: The hammocks of north Key Largo form the largest stand of West Indian tropical forest in the United States. This rapidly disappearing forest, which is called Rockland forest, supports a wide diversity of rare plant and animal species. Degraded water quality is becoming an increasing issue in Florida Bay and the Florida Keys, as natural lands are converted to residential housing and commercial development. The project area has over 10 miles of shoreline that directly influences the adjacent waters of John Pennekamp Coral Reef State Park. As in other parts of the Keys, development seriously threatens this area.

Cost: Total: Project size 4,513 acres. 3,538 acres have been acquired at a cost of \$75,403,715
 Project Development
 Land Acquisition: 975 acres to be acquired
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1983
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Thru 2004	2005	2006	2007	2008	Balance to complete	Total
Federal							
State	75,403.7						
Tribal							
Local							
Other							
Total	75,403.7						TBD

Hyperlink: <http://www.dep.state.fl.us/stland/oes/carlmain.htm>

Program Name: Restoration Program: Habitat & Species
Project Name: North Savannas Land Acquisition
Project ID: 2140
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 930 Acres

Project Synopsis: The site contains a 930-acre remnant of the historical savannas community type in St. Lucie County. Based on an evaluation conducted for the Florida Natural Areas Inventory, this area was found to have excellent natural community diversity. Seven upland and wetland community types, including a small area of sand pine scrub, are on the property. Important water management functions of this project area include attenuating peak discharges during major storm events and water quality improvement. The site promotes recharge to the surficial aquifer, which is the primary source of potable water in St. Lucie County. The water table at this location is extremely shallow and results in the aquifer being vulnerable to surface contamination.

Acquisition of this land will help in promoting recharge and protection of the surficial aquifer from surface contamination. Once acquired, sheetflow would be improved if several shellrock roads were removed. Further, acquisition will conserve and protect feeding and breeding habitat for a number of endangered and threatened species, including the wood stork, the Florida sandhill crane, and the osprey. This site also includes the world's only known population of an undescribed mint plant (*Dicerandra sp.*). No acreage has been acquired to date by the District.

The Florida Fresh Water Fish and Wildlife Commission would be the lead manager for the non-reservoir areas. The District will take the lead on all hydrologic restoration efforts.

Cost: Total: Project size is 930 acres
 Project Development
 Land Acquisition: 930 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1997
 Finish Date: Upon Completion

Detailed Project Budget Information (1000s)

	Through 2004	2005	2006	2007	2008	Balance to complete	Total
Federal							
State							
Tribal							
Local							
Other							
Total	0	0					TBD

Additional information available at www.sfwmd.gov under the heading "Major Projects"

Program Name: Restoration Program: Habitat and Species
Project Name: Okaloacoochee Slough
Project ID: 2141
Lead Agency: Florida Department of Environmental Protection
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 37,210 Acres

Project Synopsis: This site contains more than 37, 210 acres in Hendry and Collier Counties. It is a major tributary to Fakahatchee Strand and Big Cypress National Preserve. It is dominated by a central slough, consisting of sawgrass marshes and wet prairies, with fringes of live oak/cabbage palm hydric hammocks. Most of the pines have been logged, but otherwise the site is pristine. Okaloacoochee Slough is critical habitat for the Florida panther. The District has acquired 34,982 acres within the project.

Some exotic treatment is needed to control minor infestations of Brazilian pepper and melaleuca. Hydrologically, the property remains undisturbed.

Cost: Total: Project size is 37,210 acres
 Project Development
 Land Acquisition: 2,228 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1996
 Finish Date: Upon completion

Detailed Project Budget Information (\$1000s)

	Through 1999	2000	2001	2002	2003	2004	Balance to complete	Total
Federal								
State	20,411	160						20,570.7
Tribal								
Local								
Other								
Total	20,411	160						TBD

Point of Contact: Wanda Caffie-Simpson, (561) 682-6445

Additional information available at www.sfwmd.gov under the heading "Major Projects"

Project Name: Okeechobee Battlefield
Project ID: 2142
Lead Agency: FDEP
Authority: Florida Forever Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 56 Acres acquired

Project Synopsis: The Okeechobee Battlefield project represents a portion of one of the last battles of the Second Seminole Indian war. The 56-acre project consists of improved pasture and freshwater marsh, and provides the backdrop for a yearly reenactment of the battle. The site is home to bald eagles, and offers potential habitat for the crested caracara and wood stork. The evaluation team visited the project on September 24, 2001.

The project is situated adjacent to U.S. Highway 441/98 along the northeastern rim of Lake Okeechobee, approximately five miles southeast of the town of Okeechobee in southern Okeechobee County. There are no adjacent or close by conservation lands in the FNAI database, however South Florida Water Management District lands Paradise Run and Kissimmee River are approximately 8 and 12 miles to the west, respectively. St. Lucie County's Bluefield Ranch and St. Lucie Pinelands are approximately 8.5 miles to the east, and 12 miles to the northeast, respectively.

Cost: Total: Project size is 56 acres.
 Project Development
 Land Acquisition: 56 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 2001
 Finish Date: Upon completion

Detailed Project Budget Information (\$1000)

	Exp Thru 2005	2006	2007	2008	2009	2010	Balance to complete	Total
Federal								
State								
Total	\$0	0	0					TBD

Project name: Osceola Pine Savannas
Project ID: 2143
Lead Agency: FDEP
Authority: CARL Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 1,374 Acres acquired

Project Synopsis: The project covers an area of old beach ridges and intervening swales, with high-quality, longleaf pine flatwoods interrupted by cypress strands, cypress domes, and wet prairies. There are also extensive dry prairies and patches of oak or sand pine scrub, all of which are natural communities of the Kissimmee Prairie. Six FNAI-listed animals occur on the site, including sandhill crane, wood storks, and crested caracara.

Cost: Total: Project size 1,374 acres. 1,333 acres have been acquired
 Project Development
 Land Acquisition: 41 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1995
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Thru 2003	2004	2005	2006	2007	2008	Balance to complete	Total
Federal								
State	\$310	0	0					
Tribal								
Local								
Other								
Total	310	0	0					TBD

Program Name: Restoration Program: Habitat & Species
Project Name: Pal-Mar
Project ID: 2144
Lead Agency: Florida Department of Environmental Protection/South Florida Water Management District
Authority: CARL/SOR

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 36,745 Acres Acquired

Project Synopsis: Pal-Mar is located in Palm Beach and Martin Counties, east of the J.W. Corbett Wildlife Management Area and west of Jonathan Dickinson State Park. The total project encompasses 36,745 acres, including some of the highest quality pine flatwoods in southern Florida in an ecotone between pine flatwoods and the treeless Everglades. It also includes high quality prairie and savanna habitat. The first purchase of 1,922 acres was completed in 1992.

The primary purpose of this project is to conserve and protect environmentally unique lands that contain native, relatively unaltered flora and fauna. Acquisition of this project will form an extensive wildlife corridor connecting Jonathan Dickinson State Park, Pal-Mar, J.W. Corbett Wildlife Management Area, and DuPuis Reserve. By protecting native flatwoods, prairies, and marshes, this project will protect critical habitat for at least four endangered bird species, including the Florida sandhill crane and Everglades snail kite, and for the endangered Florida panther.

Cost: Total: Project size 36,745 acres. 18,986 acres have been acquired at a cost of \$27,546,849
 Project Development
 Land Acquisition: 17,759 acres remaining to be acquired
 Implementation
 Operations and Maintenance

Project Schedule:

Start Date: 1992
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Through 2004	2005	2006	2007	Balance to complete	Total
Federal						
State	\$11,554	0				
Tribal						
Local	12,439	0				
Other						
Total	23,994	0				TBD
Adjusted Total	23,987					

*A portion of the acres and costs on this project sheet overlap with Project ID 1101 in Goal 1. The **Adjusted Total** compensates for this overlap by allocating the appropriate costs to this project.

Project name: Panther Glades
Project ID: 2145
Lead Agency: FDEP
Authority: Florida Forever

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 53,894 acres acquired

Project Synopsis: The area consists of a landscape mosaic of forested uplands interspersed among forested wetland communities. The ecosystem encompassed by the project is a large landscape and watershed in south-central Hendry County that includes portions of both the Big Cypress and Kissimmee Billy Strand. The Panther Glades project is important to many wildlife species, particularly those that require extensive areas of habitat to maintain viable populations.

Cost: Total: Project size 53,894. 21,724 acres have been acquired at a cost of \$75,049,836
 Project Development
 Land Acquisition: 32,170 acres remaining to be acquired
 Implementation
 Operations and maintenance

Project Schedule:
 Start Date: 2001
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Thru 2003	2004	2005	2006	2007	2008	Balance to complete	Total
Federal								
State	\$75,050	0	0					
Tribal								
Local								
Other								
Total	\$75,050	0	0					TBD

Program Name: Restoration Program: Hydrological Restoration, Habitat and Species
Project Name: Paradise Run Land Acquisition
Project ID: 2146
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 4,265 Acres

Project Synopsis: This 4,265 acre project lies west of canal C-38, between Water Control Structure S-65E and Lake Okeechobee in Glades and Okeechobee Counties. Current land use is predominantly improved pasture and cattle grazing but agricultural activities in the area are intensifying as exemplified by new, nearby row crops (potatoes), sod extraction, and citrus. The remnant river run and adjacent wetlands remain largely intact but have no continuous water flow; hence water quality (especially dissolved oxygen) has become poor and organics have accumulated deeply in the remnant river run. This area consistently has greater wading bird and waterfowl use than most any area of the Kissimmee River. Its close proximity to Lake Okeechobee puts it in foraging flight distance of the large wading bird rookeries. Restoration would be fairly simple because the remnant river run and wetlands are largely intact, and water could gravity flow from Pool E (elevation 21 feet msl) one-half mile to Paradise Run (elevation 16 feet msl). The C-38 canal would be bypassed. The District has acquired 3,328 acres.

Cost: Total*: Project size 4,265 acres. 3,328 acres have been acquired at a cost of \$4,908,095
 Project Development
 Land Acquisition: 937 acres remaining to be acquired
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1998
 Finish Date: TBD

Detailed Project Budget Information (1000s)

	Through 2004	2005	2006	2007	2008	Balance to complete	Total*
Federal							
State	\$4,908	0					\$4,908
Tribal							
Local							
Other							
Total	\$4,908	0					TBD

Additional information available at www.sfwmd.gov under the heading "Major Projects"

Program Name: Restoration Program: Hydrological Restoration, Habitat and Species
Project Name: Lake Hatchineha Watershed/ Parker-Poinciana
Project ID: 2147
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 6,437 Acres

Project Synopsis: Parker – Poinciana is located in Osceola and Polk counties, and is located between the Disney Wilderness Preserve and District owned lands already acquired as part of the Kissimmee Chain of Lakes SOR project along the north shore of Lake Hatchineha. It contains a variety of community types, including mesic flatwoods, a large cypress/bay head, logged over flatwoods and hydric hammock along the Lake Hatchineha shoreline. The total project acreage is 6,437 acres. No acreage has been acquired to date.

Cost: Total: Project size 6,437 acres.
 Project Development
 Land Acquisition: 6,437 acres remaining to be acquired
 Implementation
 Operations and maintenance

Project Schedule:
 Start Date: 1996
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Through 2004	2005	2006	2007	2008	2009	Balance to Complete	Total
Federal								
State	0	0						
Tribal								
Local								
Other								
Total	0	0						TBD

Point of Contact: Wanda Caffie-Simpson, (561) 682-6445

Additional information available at www.sfwmnd.gov under the heading “Major Projects”

Project name: Pineland Site Complex
Project ID: 2148
Lead Agency: FDEP
Authority: CARL Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 206 Acres acquired

Project Synopsis: This internationally significant archaeological site was inhabited by the Calusa for over a thousand years, and includes substantial midden mounds, a burial mound, remnants of an Indian-engineered canal, and buried deposits containing organic remains. Natural habitats within the project area include tidal saltern, a tidal creek, intertidal shoreline, and a large tract of mangrove wetland. Ponds on the site are important to white ibis, egrets, herons, and wood stork.

Cost: Total: Project size 206 acres. 57 acres have been acquired at a cost of \$1,751,874
 Project Development
 Land Acquisition: 149 acres to be acquired
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1996
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Thru 2004	2005	2006	2007	2008	Balance to complete	Total
Federal							
State	1,355	0					
Tribal							
Local	396.9	0					
Other							
Total	1,751	0					TBD

Program Name: Land Acquisition
Project Name: Ranch Reserve
Project ID: 2178
Lead Agency: FDEP
Authority: Florida Forever

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Acres acquired

Project Synopsis: The project consists of four cattle ranches on the Osceola Plain west of and above the St. Johns River marshes. Mesic flatwoods interrupted by depression marshes cover about 40 percent of the project area. Swamps and hammocks make up much of the remaining natural communities. At least 24 FNAI-listed animals are known or reported from the project, including red-cockaded woodpeckers and one of the best populations of sandhill cranes in Florida.

Cost: Total: 2,217 acres of a much larger project (36,116 acres) lie with the boundary of the SFWMD. 67 acres acquired at a cost of \$39,286
 Project Development:
 Land Acquisition: 2,150 acres remaining to be acquired
 Implementation
 Operations and maintenance

Project Schedule:
 Start Date: 1997
 Finish Date: TBD

Detailed Project Budget Information (1000s)

	Thru 2004	2005	2006	2007	2008	2009	Balance to complete	Total
Federal								
State	\$39.286	0						
Tribal								
Local								
Other								
Total	\$39.286	0						TBD

Project name: Rookery Bay
Project ID: 2149
Lead Agency: FDEP
Authority: CARL Program

Strategic Plan Goal(s) Addressed: 2 - Restore and Enhance the Natural System

Measurable Output(s): 18,721 acres acquired

Project Synopsis: This project consists of 18,721 acres in Collier County and provides an outstanding example of a subtropical estuarine system. Its mangroves shelter important nesting colonies of water birds, and feed and protect many aquatic animals, which are the foundation of a commercial and sport fishery. The natural communities associated with the estuary are relatively undisturbed and range from mangrove and marsh to flatwoods and maritime hammock. As part of the national estuarine research reserve system, Rookery Bay is representative of the West Indian biogeographic type. The area is believed to have good potential for archaeological investigations. The area is threatened by dredging and filling associated with the rapid development of the area.

Cost: Total: Project size 18,721 acres. 18,600 acres have been acquired at a cost of \$45,500,833
 Project Development
 Land Acquisition: 121 acres remaining to be acquired
 Implementation
 Operations and maintenance

Project Schedule:
 Start Date: 1980
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Thru 1999	2005	2006	2007	2008	2009	Balance to complete	Total
Federal								
State	\$44,960.8	540						
Tribal								
Local								
Other								
Total	\$44,960.8	540						TBD

Project name: Rotenberger-Holey land Tract
Project ID: 2150
Lead Agency: FDEP
Authority: CARL Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 79,170 Acres acquired

Project Synopsis: The Rotenberger/Holey Lands were historically an integral part of the Everglades hydrological system. The natural communities of the project consisted of shallow sawgrass marshes with tree islands interspersed. Much of the area has been disturbed. Restoration of the area is important to the restoration of the water quality and quantity to the Everglades.

Cost: Total: Project size 79,170 acres. 70,833 acres have been acquired at a cost of \$20,114,395
 Project Development
 Land Acquisition: 8,337 acres remaining to be acquired
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1984
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Thru 2004	2005	2006	2007	2008	Balance to complete	Total
Federal							
State	20,114	0					
Tribal							
Local							
Other							
Total	20,114	0					TBD

Program Name: Restoration Program: Hydrological Restoration
Project Name: Shingle Creek Land Acquisition
Project ID: 2151
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 7,655 Acres

Project Synopsis: Shingle Creek Swamp is located in southern Orange and northern Osceola counties. It is a major receiving body for stormwater runoff from areas south and southwest of Orlando. The Orange County portion of the swamp is more than 1.5 miles wide, and is dominated by Cypress, Loblolly Bay, and Red Maple. Shingle Creek itself was channelized in the 1920s and it borders the eastern edge of the swamp. Most to the floodplain in Osceola County is intact, but adjacent uplands, which historically were wiregrass/longleaf pine-dominated systems, have been cleared and planted as improved pasture. As mitigation for the Orlando Beltway Southern Connector, a hydrologic restoration plan was implemented in 1995, which equalizes water levels and sheetflow across the Orange County portion of Shingle Creek Swamp. The project is 7,655 acres of which 1,333 have been acquired by the District. In June 2003, Osceola County acquired an additional 124 acres within the project, granting the District a conservation easement for funding \$1,275,000 of the land acquisition cost.

Cost: Total: Project size 7,655. 1,588 acres have been acquired at a cost of \$6,314,344
Project Development
Land Acquisition: 6,067 acres remaining to be acquired
Implementation
Operations and maintenance

Project Schedule:

Start Date: 1987
Finish Date: Upon completion

Detailed Project Budget Information (\$1000)

	Through 2003	2004	2005	2006	2007	2008	Balance to Complete	Total
Federal								
State	2,489.3	0	0					2,489.3
Tribal								
Local**	\$3,825							\$3,825
Total	\$6,314.3	0	0					TBD

** Coordination with Osceola County of the Babb property acquisition is required; This is an estimate of the land costs contributed based on file comments indicating that the District funded 25% of the acquisition \$1,275,000.

*Mitigation Funds/Donations

Additional information available at www.sfwmd.gov under the heading "Major Projects"

Program Name: Restoration Program: Hydrological Restoration, Water Quality, and Habitat and Species
Project Name: Six Mile Cypress I & II Land Acquisition
Project ID: 2152
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 1,966 Acres

Project Synopsis: Six Mile Cypress Slough is located in Lee County southeast of the City of Fort Myers. It extends from State Road 82 southwesterly for approximately nine miles to Ten Mile Canal. The Slough averages 1,500 feet in width, and consists of Cypress swamps, interspersed with numerous open ponds. It is ringed with pine flatwoods, transitional hardwoods, wet prairies, and stands of Melaleuca. The total project size is 1,966 acres. The SFWMD has acquired 842 acres and Lee County has acquired an additional 1,011 acres within the project.*

Cost: Total: Project size 1,966. 1,864 acres have been acquired at a cost of \$6,903,701
 Project Development
 Land Acquisition: 102 acres remaining to be acquired
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1987
 Finish Date: Upon completion

Detailed Project Budget Information (\$1000)

	Through 2003	2004	2005	2006	2007	2008	Balance to Complete	Total
Federal								
State	\$1,770.3	0	0					\$1,770.3
Tribal								
Local	5,133.38	0	0					5,133.38
Other*								
Total	\$6,903.7	0	0					TBD

*Coordination with Lee County is required to determine acres and costs of acquisitions.

Program Name: Restoration Program: Habitat and Species
Project Name: South Savannas Land Acquisition
Project ID: 2154
Lead Agency: Florida Department of Environmental Protection
Authority: Save Our Rivers (SOR), Conservation and Recreation Lands (CARL)

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 6,046 Acres Acquired

Project Synopsis: The Savannas forms a chain of marshes and lakes that separate the inland pine flatwoods from the coastal scrub on the Atlantic Ridge in St. Lucie and Martin Counties. The State has acquired most of the lands within the project through the CARL program. The District in partnership with Martin County acquired ownership of a single 77-acre tract and transferred title to the property to the State of Florida in 1999. It is now and will continue to be managed by the Department of Environmental Protection as the Savannas Preserve.

Cost: Total: The project totals 6,046 acres which 5,182 acres have been acquired at a cost of \$20,902,290.

Project Development

Land Acquisition: 864 acres remaining to be acquired.

Implementation

Operations and Maintenance

Project Schedule:

Start Date: 1981

Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Through 2003	2004	2005	2006	2007	2008	Balance to Complete	Total*
Federal								
State	19,902	0	0					
Tribal								
Local	1,000	0	0					
Other								
Total	\$20,902	0	0					TBD

Program Name: Restoration Program: Hydrological Restoration
Project Name: Southern Glades Land Acquisition
Project ID: 2155
Lead Agency: South Florida Water Management District, Miami-Dade County
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: Primary: 2.A.1

Measurable Output(s): Target 37,620 Acres

Project Synopsis: This 37,620-acre project is located adjacent to the C-111 Canal, between U.S. 1 and Everglades National Park. The project land is dominated by Everglades sawgrass marsh and tropical hardwood hammock. Land management will be carried out by the Fish and Wildlife Conservation Commission and the land is currently open for public use. This land is needed for the C-111 Canal project and C-111 Spreader Canal CERP project. These projects will benefit the flow of water into Everglades National Park and Northeast Florida Bay. The SFWMD has been acquired 32,499 acres and Miami-Dade County has acquired 1,077 acres within the project.

Cost: Total: Project size 37,620 acres. 33,576 acres have been acquired at a cost of \$14,371,128
 Project Development
 Land Acquisition: 4,044 acres remaining to be acquired
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1964
 Finish Date: Upon completion

Detailed Project Budget Information (\$1000)

	Through 2003	2004	2005	2006	2007	2008	Balance to complete	Total*
Federal								
State	12,898.4	0	0					12,898.4
Tribal								
Local**	1,472.7	0	0					1,472.7
Other								
Total	14,371.1	0	0					TBD
Adjusted Total*	6,951.8							

*A portion of the acres and costs on this project sheet overlap with Project ID 1404 in Goal 1. The **Adjusted Total** compensates for this overlap by allocating the appropriate costs to this project.

Additional information available at www.sfwmd.gov under the heading "Major Projects"

Project name: Southern Golden Gate Estates
Project ID: 2156
Lead Agency: FDEP
Authority: CARL Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 55,247 Acres acquired

Project Synopsis: The Southern Golden Gate Estates (SGGE) encompasses an approximately 94 square mile area of sensitive environmental landscape in South Central Collier County. It is an important surface water storage and aquifer recharge area with a unique ecology of cypress, wet and dry prairie, pine flatwoods and hardwood hammock swamp communities; and includes three flowways that contribute freshwater input to the Ten Thousand Island estuary of the western Everglades watershed. The area supports a diversity of wildlife, including at least a dozen endangered and threatened vertebrates as well as a large variety of rare orchids and other air plants. The area is linked hydrologically to the Everglades ecosystem and contains remnants of two large cypress strands, the Lucky Lake and Picayune Strands. The rapid urbanization of southwest Florida is posing a continuous and increasing threat to the wildlife habitat and maintenance of water quality within SGGE. Acquisition of lands within SGGE will preserve large pieces of the South Florida ecosystem. Ultimately, this will contribute to the formation of a continuous public conservation area extending across South Florida from the Gulf Coast to approximately 10 miles from the Atlantic Ocean, protecting the Everglades ecosystem from the encroachment of residential, commercial, and industrial developments.

Cost: Total: Project size 55,247 acres. 54,397 acres have been acquired at a cost of \$118,529,982
 Project Development
 Land Acquisition: 850 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1984
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Thru 2004	2005	2006	2007	2008	Balance to complete	Total
Federal	32,794						
State	78,002	7,734.4					
Tribal							
Local							
Other							
Total	110,795	7,734.4					TBD
Adjusted Total	632.6						

*A portion of the acres and costs on this project sheet overlap with Project ID 1424 in Goal 1. The **Adjusted Total** compensates for this overlap by allocating the appropriate costs to this project.

Program Name: Restoration Program: Habitat and Species
Project Name: Twelve Mile Slough
Project ID: 2158
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 15,653 Acres

Project Synopsis: This site contains 15,653 acres in Hendry County and is tributary to the much larger and regionally significant Okaloacoochee Slough. It contains a mosaic of uplands and wetlands, as well as improved pasture areas which appear to be reverting to native range. Based on a 1993 FGFWFC report, this single-owner tract provides habitat for the endangered Florida panther. Significant restoration on the site is necessary to correct overdrainage of the wetland communities. 7,486 acres has been acquired to date.

Restoration and protection is important because the Twelve Mile Slough is a headwater tributary to Okaloacoochee Slough, which supplies a major source of water for Fakahatchee Strand State Preserve and Big Cypress National Preserve. Surface water storage in the numerous wetlands provides for ground-water recharge of the underlying surficial aquifer and provides surface water supply to the Caloosahatchee River.

Cost: Total: Project size 15,653 acres. 7,486 acres have been acquired at a cost of \$11,000,000
 Project Development
 Land Acquisition: 8,167 acres remaining to be acquired
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1998
 Finish Date: TBD

Detailed Project Budget Information (\$1000)

	Through 2004	2005	2006	2007	2008	2009	Balance to complete	Total
Federal								
State	11,000	0						
Tribal								
Local								
Other								
Total	11,000	0						TBD

Point of Contact: Wanda Caffie-Simpson, (561) 682-6445

Program Name: Restoration Program: Habitat and Species
Project Name: Upper Lakes Basin Watershed
Project ID: 2159
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 47,300 Acres

Project Synopsis: This 47,300-acre project is located at the headwaters of the Kissimmee-Okeechobee-Everglades ecosystem in Polk and Osceola Counties. The project area includes a substantial portion of Reedy Creek and Lake Marion Creek drainage basins. The land contains large expanses of endangered scrub, mesic and wet flatwoods, hydric hammock, and floodplain forest, including habitat for several threatened and endangered plants and animals. The SFWMD in partnership with Polk County has acquired 12,550 acres. SFWMD is the lead land manager.

The primary purpose of this project is to preserve this watershed which is a critical link in the restoration of the Kissimmee-Lake Okeechobee-Everglades ecosystem. Reedy Creek is the headwater drainage for Lake Russel and Cypress Lake. Peak Discharges from major storm events are modified and stored within the swamp and provide year-round base flow to these downstream lakes. The Lake Marion Creek portion of the project is of critical importance to the recharge of the Floridan Aquifer. Lake Marion serves as the headwaters to lake Marion Creek, which combines with Snell and Horse Creeks to provide a constant supply of high-quality water to Lake Hatchineha, which in turn discharges to Lake Kissimmee, and eventually the Kissimmee River and Lake Okeechobee. All three of these water bodies are primary components of the SFWMD's water management system.

Cost: Total: Project size 47,300 acres. 12,550 acres have been acquired at a cost of \$12,343,957
 Project Development
 Land Acquisition: 34,750 acres remaining to be acquired
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1995
 Finish Date: TBD

Detailed Project Budget Information (\$1000s)

	Through 2003	2004	2005	2006	2007	2008	Balance to complete	Total
Federal								
State	9,257.9	0	0					
Tribal	0	0	0					
Local	836	0	0					
Other***	2,250	0	0					
Total	12,343.9	0	0					TBD

**Dollars contributed by Polk County

*** 332 acres of lands acquired in June 2003 with Mitigation funds.

Program Name: Restoration Program: Habitat and Species
Project Name: Upper Econ Mosaic
Project ID: 2186
Lead Agency: FDEP
Authority: Florida Forever

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 16,595 Acres Acquired

Project Synopsis: 16,595 acres in a region facing overwhelming threats from residential and commercial growth. Provides a large habitat in the upper Kissimmee Basin region supporting a mosaic of high quality natural communities. The project encompasses the Econlockhatchee River Swamp, an Outstanding Florida Water and headwaters of the Econlockhatchee River, which flows north and east into the St. Johns River through Orange and Seminole Counties. The project is the site of several plants of conservation concern including scrub bay, nodding pinweed, and Florida bear-grass. Rare animals include red-cockaded woodpecker, Sherman's fox squirrel, Florida sandhill crane, Florida scrub jay, and a large population of gopher tortoise.

Cost: Total: Project size 16,595. 918 acres acquired.
 Project Development:
 Land Acquisition: 15,677 acres remaining to be acquired.
 Implementation
 Operations and maintenance

Project Schedule:
 Start Date: 1996
 Finish Date: Upon completion

Detailed Project Budget Information (1000s)

	Thru 2003	2004	2005	2006	2007	2008	Balance to complete	Total
Federal								
State	0							
Tribal								
Local								
Other								
Total	0							TBD

Program Name: Restoration Program: Habitat and Species
Project Name: Water Conservation Areas 2 and 3
Project ID: 2160
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 103,635 Acres of outstanding fee interests

Project Synopsis: The WCAs encompass approximately 867,000 acres in Broward, Dade, and Palm Beach counties in which the SFWMD holds a combination of fee and easement interests. The SOR project is designed to complete the public acquisition of the outstanding fee interests in the project area, estimated to total 50,717 acres. The SFWMD has already acquired 52,918 acres of the original estimated 103,635 acres of outstanding fee interests. Land management is carried out by the Florida Fish and Wildlife Commission and the U.S. Fish and Wildlife Service, under contract to the SFWMD.

The general purpose of these lands is to store floodwater from developed areas adjacent to the WCAs for later use during the dry season. Releases of water from the WCA's during the dry seasonal and, particularly during drought conditions are considered vital to the maintenance of adequate water levels in the coastal canals, wellfields, and Everglades national Park and for the prevention of saltwater intrusion.

Cost:	Total	SFWMD does not make cost projections on SOR projects
	Project Development	N/A
	Land Acquisition	SFWMD does not make cost projections on SOR projects
	Implementation	N/A
	Operations and Maintenance	N/A

Project Schedule:

Start Date: 1948
 Finish Date: Upon Completion

Detailed Project Budget Information (1000s)

	Through 2003	2004	2005	2006	2007	2008	Balance to complete	Total
Federal								
State*	10,474.4	98						10,572.4
Tribal								
Local								
Other								
Total	10,474.4	98						TBD

*2004 Dollars reflect purchases associated with 980 acres of outstanding fee interest

Program Name: Land Acquisition
Project name: A.R. M. Loxahatchee National Wildlife Refuge
Project Number: 2161
Lead Agency: U.S. Fish and Wildlife Service
Authority: Migratory Bird Conservation Act of 1929

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 145,567 Acres

Project Synopsis: The Arthur R. Marshall Loxahatchee NWR was established in 1951 through an agreement between the South Florida Water Management District and the U.S. Fish and Wildlife Service under the Migratory Bird Conservation Act of 1929. Acquisition is for the purposes of providing buffer to the refuge, Everglades habitats, water recharge and storage, and for habitat protection. Increasing population growth is rapidly changing the landscape, converting farmland to residential neighborhoods. Acquisition support both refuge wildlife management goals as well as CERP restoration goals.

Cost: Total \$30,119,000
 Project Development
 Land Acquisition \$30,119,000
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1955
 Finish Date: 2005

	1999	2000	2001	2002	2003	2004	2005	2006	2007
Planning & Design									
Real Estate									
Construction									

Detailed Project Budget Information (\$1000)

	Exp Thru 2004	2005	2006	2007	2008	2009	Balance to complete	Total
Federal	119						30,000	30,119
SFWMD								
Total	119							30,119

Program Name: Land Acquisition
Project name: Big Cypress National Preserve Addition
Project ID: 2163
Lead Agency: National Park Service
Authority: Public Law 100-301
Funding Source:

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 146,119 acres

Project Synopsis: On April 29, 1988, Public Law 100-301 established the Big Cypress National Preserve (BCNP) Addition. At that time, I-75 was being designed in such a way as to improve the natural water flow to Everglades National Park, which had been disrupted by State Road 84 (commonly known as Alligator Alley). This provided an opportunity to enhance protection of Everglades National Park, to promote protection of the endangered Florida panther, and to provide for public recreational use and enjoyment of public lands by expanding the BCNP to include those lands adjacent to Interstate 75 in Collier County north and east of the Preserve, west of the Broward County line, and south of the Hendry County line.

The purpose of the Federal acquisition is to provide significant public benefits by limiting development pressures on lands which are important both in terms of fish and wildlife habitat supporting endangered species and of wetlands which are the headwaters of the Preserve. Additionally public ownership of the lands adjacent to the Preserve would enhance the protection of the Everglades National Park while providing recreational opportunities and other public uses currently offered by the Big Cypress.

The Act provided for expansion of the Big Cypress by 146,119 acres, of which approximately 32,557 acres have been acquired by the State of Florida. The authorizing legislation allows the Secretary of the Interior to purchase lands within the preserve boundaries and stipulates that no improved property, as defined by the Act, nor oil and gas rights, shall be acquired without the consent of the owner, unless that property is subject to, or threatened with, uses which are, or would be, detrimental to the purposes of the Preserve. The NPS will acquire the remaining private lands, excluding qualifying exempt property, using fair market value appraisals, consistent with the enabling Act.

Cost:

Total	\$48,793,000
Project Development	
Land Acquisition	\$48,793,000
Implementation	
Operations and maintenance	

Project Schedule:

Start Date: 1989
Finish Date: 2005

	1999	2000	2001	2002	2003	2004	2005	2006	2007
Planning & Design									
Real Estate									
Construction									

Detailed Project Budget Information (\$1000)

	Exp Thru 2004	2005	2006	2007	2008	2009	Balance to complete	Total
Federal	46,226	170					2,397	48,793
Total	46,226	170					2,397	48,793

All acquisitions will be consistent with authorizing Big Cypress Legislation.

Hyperlink: N/A

Contact: Brian Coleman, (239) 213-2242

Program Name: Land Acquisition
Project Name: Big Cypress National Preserve Private Inholdings
Project ID: 2164
Lead Agency: National Park Service
Authority: Public Law 93-440
Funding Source:

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 845 acres

Project Synopsis: On October 11, 1974, Public Law 93-440 established the Big Cypress National Preserve in order to assure the preservation, conservation, and protection of the natural, scenic, hydrologic, floral and faunal, and recreational values of the Big Cypress Watershed. The total size of the original Preserve is 574,449 acres. The State of Florida donated 186,340 acres to establish the Big Cypress. The Federal government has acquired all but 845 acres of the remaining 388,109 acres in the original Preserve boundaries. The authorizing legislation allows the Secretary of the Interior to purchase lands within the Preserve boundaries and stipulates that no improved property, as defined in the Act, nor oil and gas rights, shall be acquired without the consent of the owner, unless that property is subject to, or threatened with, uses which are, or would be, detrimental to the purposes of the Preserve.

The 179 privately owned tracts are scattered throughout the Preserve. The National Park Service will acquire those tracts, excluding qualifying exempt property, using fair market value appraisals consistent with the Act.

Cost:
 Total \$243,982,000
 Project Development
 Land Acquisition \$243,982,000
 Implementation
 Operations and maintenance

Project Schedule:
 Start Date: 1974
 Finish Date: open

	1999	2000	2001	2002	2003	2004	2005	2006	2007
Planning & Design									
Real Estate									
Construction									

Detailed Project Budget Information (\$1000)

	Exp Thru 2004	2005	2006	2007	2008	2009	Balance to complete	Total
Federal	222,105						21,877	243,982
SFWMD								
Total	222,105						21,877	243,982

All Acquisitions will be consistent with authorizing Big Cypress Legislation.

Hyperlink: N/A
Contact: Brian Coleman, (239) 213-2242

Program Name: Land Acquisition
Project Name: Biscayne National Park
Project ID: 2165
Lead Agency: National Park Service
Authority: Public Law 96-287
Funding Source:

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 172,924 acres

Project Synopsis: This project includes acquisition of three Ragged Keys (326 acres), one tract of submerged lands only (20 acres) and two on-shore tracts (36 acres) in Biscayne National Park. The Ragged Keys are five islands immediately adjacent to the most popular use area in the park, Boca Chita Key. Two islands were acquired through 1999. Two of the three islands remaining to be acquired are natural habitat on the islands and in the surrounding shallows. Least terns nest on land and endangered sea turtles nest on the shoreline. Both nesting sites are greatly disturbed by overflow public use of the area and developers for resort and recreational facilities have repeatedly targeted the islands. A total of 382 acres remains to be acquired.

Cost:

Total	\$33,699,000
Project Development	
Land Acquisition	\$33,698,612
Implementation	
Operations and maintenance	

Project Schedule:

Start Date: 1968
 Finish Date: Open

	1999	2000	2001	2002	2003	2004	2005	2006	2007
Planning & Design									
Real Estate									
Construction									

Detailed Project Budget Information (\$1000)

	Exp Thru 1999	2000	2001	2002	2003	2004	Balance to complete	Total
Federal	31,851	0	0	0	0		1,848	33,699
SFWMD								
Total	31,851						1,848	33,699

Hyperlink: N/A

Contact: Brian Coleman, (239) 213-2242

Program Name: Land Acquisition
Project name: Crocodile Lake National Wildlife Refuge
Project Number: 2166
Lead Agency: U.S. Fish and Wildlife Service
Authority: Endangered Species Act of 1973

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 7,100 acres

Project Synopsis: Crocodile Lake National Wildlife Refuge was established on April 2, 1980 to preserve mangrove wetlands, tropical West Indian hardwood hammocks and open water areas on Key Largo, which are critical feeding and nesting habitat for the endangered American crocodile. The Refuge is within the designated Critical Habitat for the species and contains one-third of all crocodile nests found in Florida. The Refuge consists of about 5,300 acres of mangrove swamp, 1,200 acres of upland hardwood hammock, and 300 acres of open water. The uplands are vegetated with the last remaining remnants of unspoiled West Indian Hardwoods in the United States. The Refuge is inhabited by a number of other endangered or threatened species, most notably the eastern indigo snake, the bald eagle, the Key Largo woodrat, the Key Largo cottonmouse, and the Schaus swallowtail butterfly. The major threat to this habitat is conversion of the uplands to residential or commercial developments. The crocodile has little tolerance to human activities. Wetlands areas are less threatened, but severe alteration and damage has occurred.

Cost: Total \$14,319,000
Project Development
Land Acquisition \$14,319,000
Implementation
Operations and maintenance:

Project Schedule:

Start Date: 1979
Finish Date: 2005

	1999	2000	2001	2002	2003	2004	2005	2006	2007
Planning & Design									
Real Estate									
Construction									

Detailed Project Budget Information (\$1000)

	Exp Thru 2003	2004	2005	2006	2007	2008	Balance to complete	Total
Federal	13,319						1,226	14,319
SFWMD								
Total	13,093						1,226	14,319

Program Name: Land Acquisition

Project Name: East Everglades Addition to Everglades National Park

Project ID: 2167

Lead Agency: National Park Service

Authority: Everglades National Park Protection and Expansion Act of 1989 (Public Law 101-229)

Funding Source:

Strategic Plan Goal(s) Addressed: Primary: 2.A.1

Measurable Output(s): Target 109,504 acres

Project Synopsis: In 1989, Congress authorized the addition to Everglades National Park involving approximately 109,504 acres of an area known as Northeast Shark Slough and the East Everglades. The act also directed the Army Corps of Engineers to modify water management structures to allow the sheetflow of water and extend the hydroperiod to more closely resemble the historic Everglades. The East Everglades Addition is necessary to limit further losses suffered by the Park due to habitat destruction outside former boundaries and to restore natural water-flow patterns that are critical to the ecological integrity and long-term viability of Park resources. The acquisition of the East Everglades Addition lands and completion of the Modified Water Deliveries to Everglades National Park project are the most significant efforts underway to restore water deliveries to Shark Slough, the principal watershed in the Park. These hydrologic improvements are crucial to restoring ecosystem productivity in the southern Everglades and maintaining adequate freshwater inflow to the downstream estuaries along the Gulf of Mexico and Florida Bay.

Cost:

Total \$102,477,000

Project Schedule:

Start Date: 1990

Finish Date: 2005

	1997	1998	1999	2000	2001	2002	2003	2004
Real Estate								

Detailed Project Budget Information (\$1,000)

	Thru 2004	2005	2006	2007	2008	2009	Balance to complete	Total
Federal	74,006	88					12,169	86,263
State	16,272							16,272
Total	90,278	88					12,169	102,447

Hyperlink: N/A

Contact: Brian Coleman, (239) 213-2242

Program Name: Land Acquisition

Project name: Florida Keys National Wildlife Refuge (includes National Key Deer, Great White Heron, Key West refuges)

Project Number: 2168

Lead Agency: U.S. Fish and Wildlife Service

Authority: Endangered Species Act (Key Deer), Executive Order 7993 (Great White Heron), Executive Order 923 (Key West)

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 415,436 acres

Project Synopsis: Acquisitions are to protect and maintain habitat extensively used by the endangered key deer. Preservation of the major habitats for this deer through acquisition contributes to the overall faunal diversity of Florida. Negotiations have been successful and with the availability of funding, acquisition of about 500 acres (30 willing sellers) within the refuge boundary would be possible. No Name and Big Pine Keys are the two most extensively used keys in the deer's range. Other rare, endangered and 'special emphasis' species are also found here. The greatest threat to key deer habitat is habitat modifications by land clearing. Residential development is rapidly proceeding as demand increases for the dwindling supply of acreage that will support construction. Unfortunately, this same land is prime deer habitat. An observable consequence of the residential development of these lands is the incidence of deer kills by vehicle traffic. An expansion of the Refuge to acquire a system of no-development corridors assure the continued existence of habitat for deer movement throughout the island.

Cost: Total \$35,028,000
Project Development
Land Acquisition \$35,028,000
Implementation
Operations and maintenance

Project Schedule:

Start Date: 1960
Finish Date: 2005

	1999	2000	2001	2002	2003	2004	2005	2006	2007
Planning & Design									
Real Estate									
Construction									

Detailed Project Budget Information (\$1000)

	Exp Thru 2004	2005	2006	2007	2008	2009	Balance to complete	Total
Federal	31,168						3,860	35,028
SFWMD								
Total	31,168						3,860	35,028

Program Name: Land Acquisition

Project name: Florida Panther National Wildlife Refuge (includes Ten Thousand Islands refuge)

Lead Agency: U.S. Fish and Wildlife Service

Authority: Endangered Species Act of 1973 (Florida Panther); P.L. 100-696 (Ten Thousand Islands)

Project Number: 2169

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 61,573 acres

Project Synopsis: The Florida panther is one of the most endangered mammals in the Nation, with less than 80 individuals inhabiting the Big Cypress-Everglades region. The target lands are valuable for flood water retention, water purification, and aquifer recharge, while providing high quality habitat for a wide variety of flora and fauna in addition to the panther. Most of the area is relatively inaccessible and is one the few remaining retreats for the Florida black bear. The area is diverse and interesting botanically containing rare orchids, large oaks, cypress, maples, cabbage palms and a diversity of tropical trees which form a dense canopy. The increasing human population in South Florida with its consequent urban expansion is jeopardizing the area's ecological integrity. Thus essential habitat for the survival of the Florida panther is being threatened by conversion for agricultural projects, residential development, oil field activities, lumbering and road construction. A preliminary project proposal has been developed for expansion of the Florida Panther Refuge. The ecosystem within the target boundary is absolutely essential to the survival of the Florida panther.

Cost: Total \$10,692,000
 Project Development
 Land Acquisition \$10,692,000
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1989

Finish Date: open

	1999	2000	2001	2002	2003	2004	2005	2006	2007
Planning & Design									
Real Estate									
Construction									

Detailed Project Budget Information (\$1000)

	Exp Thru 1999	2000	2001	2002	2003	2004	Balance to complete	Total
Federal	10,682						10	10,692
SFWMD								
Total	10,682						10	10,692

Point of Contact: Layne Hamilton (239) 353-8442 x227

Program Name: Land Acquisition
Project name: Hobe Sound National Wildlife Refuge
Project Number: 2170
Lead Agency: U.S. Fish and Wildlife Service
Authority: Endangered Species Act of 1973

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 1,130 Acres

Project Synopsis: Hobe Sound National Wildlife Refuge was established in 1969 and presently includes 1,027 acres of coastal sand dunes, mangrove and sand pine-scrub habitat. The primary objective of the refuge is to maintain habitat for some of the most productive nesting areas of the endangered leatherback, green and threatened loggerhead sea turtles. Hobe Sound provides habitat and protection to eight plant and animal species listed as federal threatened or endangered. The South Florida Ecosystem Plan highlights the importance of beaches to sea turtles. One of the Plan's objectives is to prevent the further decline of candidate, threatened, and endangered species and prevent further degradation of their habitats. This project is supported by the State and local governments, the public and conservation groups, with no known opposition. There are many willing sellers of high priority habitat. Nonprofit conservation groups are involved in this project.

Cost: Total \$5,818,000
 Project Development
 Land Acquisition \$5,818,000
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1968
 Finish Date: 2004

	1999	2000	2001	2002	2003	2004	2005	2006	2007
Planning & Design									
Real Estate									
Construction									

Detailed Project Budget Information (\$1000)

	Exp Thru 1999	2000	2001	2002	2003	2004	Balance to complete	Total
Federal	18						5,800	5,818
SFWMD								
Total	18						5,800	5,818

Program Name: Land Acquisition

Project name: J.N. "Ding" Darling National Wildlife Refuge (includes Caloosahatchee, Island Bay, Matlacha Pass & Pine Island refuges)

Project Number: 2171

Lead Agency: U.S. Fish and Wildlife Service

Authority: Migratory Bird Conservation Act; Executive Order 3299; Executive Order 943

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): Target 10,275 acres

Project Synopsis: The J.N. "Ding" Darling National Wildlife Refuge was established in 1945 and is located in Lee County, Florida on Sanibel Island. The island is 12 miles long and is fringed with mangrove trees, shallow bays and white sandy beaches. Tourism and seasonal residential development threatened to envelop the islands private lands until a growth plan was instituted. Caloosahatchee NWR is located in Fort Myers and acquisition of lands here is necessary for the protection of the endangered West Indian Manatee. Island Bay NWR is located in the Cape Haze area of Charlotte County and includes portions of three islands. All wetlands are protected by Federal or State ownership. Matlacha Pass NWR's acquisition boundary includes all islands, wetlands and uplands lying south of the north boundary line of Township 44 South, crossing the Caloosahatchee River and running southerly and easterly to Bunch Beach. Pine Island NWR generally lies between the western boundary of Pine Island and the Coastal Islands of Cayo Costs, North Captiva and Sanibel.

Cost: Total \$12,145,000
 Project Development
 Land Acquisition \$12,145,000
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1945

Finish Date: 2005

	1999	2000	2001	2002	2003	2004	2005	2006	2007
Planning & Design									
Real Estate									
Construction									

Detailed Project Budget Information (\$1000)

	Exp Thru 2004	2005	2006	2007	2008	2009	2010	Balance to complete	Total
Federal	9,035							3,310	12,145
SFWMD									
Total	9,035							3,310	12,145

Program Name: NOAA South Florida Program
Project Name: NOAA South Florida Program
Project ID: 2200
Lead Agency: NOAA
Authority: Magnuson Stevens Fisheries Wildlife Conservation Act, Marine Mammal Protection Act. NMSA (16 U.S.C. §§ 1431 *et seq.*), FKNMSPA (PL 101-605), and Executive Order 13089 (Coral Reef Protection)

Funding Source:

Strategic Plan Goal(s) Addressed: 2.A.2

Measurable Output(s): Physical, Water Quality and Biological Data input to CERP Monitoring and Assessment Plan, Hydrodynamic Model for South Florida Coastal Waters (Florida Bay boundary), Assessment of Critical Indicator Species (both commercial and recreational fisheries), marine mammal population health and status, research publications and contributions to the Florida Bay and Adjacent Marine Waters Syntheses and biannual symposia

Project Synopsis: Ongoing program initiated in FY96 including research, monitoring and modeling components as well as a specific Education/Outreach Component. Includes three NOAA line organizations (NOS, NMFS and OAR) as well as Florida Sea Grant.

Cost:

Total: FY06 total\$ Not Yet Determined
 Project Development:
 Land Acquisition:
 Implementation
 Operations and maintenance

Project Schedule:

Start Date: 1997
 Finish Date: Ongoing

Detailed Project Budget Information (1000s)

	Thru 2000	2001	2002	2003	2004	2005	Balance to complete	Total to Date
Federal	15,200	4,200	4,200	4,200	4,200	4,200	ongoing	36.2M
State					.4	.4	ongoing	0.8M
Tribal								
Local								
Other (Corps)					.7	.7	ongoing	1.4M
Total	19,400	4,200	4,200	4,200	5,300	5,300	ongoing	Ongoing

Hyperlink: N/A

Contact: N/A

Program Name: Infrastructure
Project Name: C&SF: CERP –Strazzulla Wetlands (OPE)
Project ID: 2300 (CERP Project # WBS 39)
Lead Agency: USACE / SFWMD
Authority: Not Authorized
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: 2.A.3

Measurable Output(s): Increased spatial extent and habitat connectivity

Project Synopsis: The purpose of this feature is to provide a hydrological and ecological connection to the Loxahatchee National Wildlife Refuge and expand the spatial extent of protected natural areas. This land will act as a buffer between higher water stages to the west and lands to the east that must be drained. This increase in spatial extent will provide vital habitat connectivity for species that require large unfragmented tracts of land for survival. It also contains the only remaining cypress habitat in eastern Everglades and one of the few remaining sawgrass marshes adjacent to the coastal ridge. This is a unique and endangered habitat that must be protected as it provides essential heterogeneity function.

Cost: \$67,390,000

Project Schedule:

Project is scheduled to complete construction in Band 2 (2010 – 2015).

	2003	2004	2005	2006	2007	2008	2009	2010
PIR/ Plans & Specs								
Real Estate								
Construction								

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	2009	2010	Total
USACE	327	1,668	1,668	6,674	10,010	6,674	6,674	33,695
SFWMD	106	1,679	1,679	6,718	10,077	6,718	6,718	33,695
Total	433	3,348	3,348	13,391	20,087	13,391	13,391	67,390

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_39_strazzulla.cfm

Contact: David Tipple, Chief North/Central Florida Restoration Branch, USACE
(904) 232-1375, David.A.Tipple@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: Winsberg Farm Wetlands Restoration (OPE)
Project ID: 2301 (CERP Project # WBS 91)
Lead Agency: USACE / Palm Beach County
Authority: WRDA 2000 (Programmatic Authority)
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: 2.A.3

Measurable Output(s): 175 acres of wetlands

Project Synopsis: In an effort to reduce the amount of treated water from the Southern Region Water Reclamation Facility that is currently disposed of through injection wells, the Palm Beach County Water Utilities Department plans to further treat and recycle this water. This project proposes construction of an additional 175 acres of wetlands on the Winsberg property, which will serve to not only recycle and preserve additional water for future use, but will also link the Wakodahatchee and Winsberg Farm facilities and provide additional green space in an area currently under heavy development. Approximately six to eight million gallons per day of reclaimed water from the Southern Region Water Reclamation Facility would be applied to the area. The wetland would be planted to maximize the diversity of native plant material and enhance the habitat for various species of wildlife.

Cost: \$16,736,000

Project Schedule:

Project is scheduled to complete construction in 2008.

	2001	2002	2003	2004	2005	2006	2007	2008
Planning & Design								
Real Estate								
Construction								

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	Total
USACE	957	741	2,223	2,223	2,223	8,368
Palm Bch Co.	0	837	2,510	2,510	2,510	8,368
Total	957	1,578	4,734	4,734	4,734	16,736

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_91_winsberg.cfm

Contact: David Tipple, Chief North/Central Florida Restoration Branch, USACE
(904) 232-1375, David.A.Tipple@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP - Lakes Park Restoration (OPE)
Project ID: 2302 (CERP Project # WBS 94)
Lead Agency: USACE / Lee County
Authority: WRDA 2000 (Programmatic Authority)
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: 2.A.3

Measurable Output(s): 40 acres marsh/flow way

Project Synopsis: Lakes Park is located east of Cape Coral in Lee County, just west of Highway 41. Lee County has developed the area as a regional park with a bathing area along shores of mining pits developed as lakes. Adjacent to the developed area, the remaining natural habitat contains pine flatwoods with some cypress heads. The pits capture runoff from the surrounding developed area (commercial, industrial, and residential), and county monitoring has indicated a decline in water quality in the lakes. The lakes are infested with hydrilla, and adjacent uplands and islands are covered with exotic plant species such as Australian pine and Brazilian pepper. This project is expected to restore surface water runoff quality by creating a meandering 40-acre flow way with shallow littoral zones and removing aquatic and upland exotic vegetation. The littoral zone will be harvested periodically to remove excess nutrients from the system. Exotic vegetation will be removed and replaced with native vegetation.

Cost: \$5,928,000

Project Schedule:

Project is scheduled to complete construction in 2009.

	2003	2004	2005	2006	2007	2008	2009
Planning & Design							
Real Estate							
Construction							

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	2009	Total
USACE	224	137	137	822	822	822	2,964
Lee County	0	148	148	889	889	889	2,964
Total	224	285	285	1,711	1,711	1,711	5,928

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_94_lakes_park.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP - Restoration of Pineland & Hardwood Hammocks in C-111 Basin (OPE)
Project ID: 2303 (CERP Project # WBS 92)
Lead Agency: USACE
Authority: WRDA 2000 (Programmatic Authority)
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: 2.A.3

Measurable Output(s): Approximately 50 acres pine rockland and tropical hardwood hammock

Project Synopsis: This feature includes restoring south Florida slash pine and hardwood hammock species on a 200-foot wide strip on each side of two miles of SR 9336 from the C-111 Canal to the L-31W Borrow Canal (approximately 50 acres) and the establishment of two one-acre hammocks in low-lying areas on each side of the road located in Miami-Dade County.

Cost: \$689,000

Project Schedule:

Project is scheduled to complete construction in Band 4 (2020 – 2025).

	2016	2017	2018	2019	2020	2021
PIR/ Plans and Specs						
Construction						

Detailed Project Budget Information (\$1000)

	2016	2017	2018	2019	2020	2021	Total
USACE	7	10	104	104	52	69	345
Sponsor	7	10	103	103	52	69	344
Total	14	21	207	207	103	138	689

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_92_rest_pineland.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: A.R.M. Loxahatchee NWR Prescribed Fire Program
Project ID: 2304
Lead Agency: USFWS A.R.M. Loxahatchee NWR
Authority:
Funding Source:

Strategic Plan Goal(s) Addressed: 2.A.3

Measurable Output(s): Acres of habitat improved including contribution to invasive exotic control.

Project Synopsis: Fire is a natural part of the Everglades ecosystem. Fire also can be used to help control invasive exotic species. The natural fire patterns in the Everglades and in A.R.M. Loxahatchee NWR have been altered. A prescribe fire program will help to improve habitats by reducing fuel loads and mimicking natural fire frequencies and intensities where appropriate. The overall result will be an improvement in wildlife habitat on the refuge.

Cost:

Total:

Project Development:

Land Acquisition:

Implementation

\$200,000

Operations and maintenance

\$200,000 (each year)

Project Schedule:

Start Date 2002

Finish Date: recurring

Detailed Project Budget Information (1000s)

	Thru 1999	2000	2001	2002	2003	2004	2005	Total
Federal			190.5	131.5	127.7	153	124.5	
State								
Tribal								
Local								
Other								
Total			190.5	131.5	127.7	153	124.5	TBD

Hyperlink: N/A

Contact: N/A

Program Name: Infrastructure
Project Name: Loxahatchee Impoundment Landscape Assessment (LILA)
Project ID: 2305
Lead Agency: SFWMD / USFWS A.R.M. Loxahatchee NWR
Authority:
Funding Source:

Strategic Plan Goal(s) Addressed: 2.A.3

Measurable Output(s): Reports outlining quantitative targets for CERP performance measures. Educational kiosk.

Project Synopsis: The objective of LILA is to support CERP by defining hydrologic regimes that sustain a healthy Everglades Ridge and Slough ecosystem and reduce uncertainty in predicting the ecosystem response. LILA will address the effects of water depth, hydroperiod, and flow rate on wading birds, tree islands, marsh plant communities, marsh fishes and invertebrates, and peat soils. In addition, LILA supports refuge and CERP public outreach by providing opportunities to observe ongoing investigations and results. It will provide educational opportunities through on-site demonstrations, kiosks as well as a forum for discussion of restoration designs.

	SFWMD	USFWS/A.R.M. Lox NWR
Cost:		
Total :	\$4,010,000	\$2,040,000 *
		*(\$1,900,000 is contribution of land 64 acres)
Project Development:		
Land Acquisition:		
Implementation	\$1,399,000	\$70,000
Operations and maintenance	\$2,611,000	\$70,000

Project Schedule:

Start Date: 2002
Finish Date: 2012

Detailed Project Budget Information (1000s)

	2002	2003	2004	2005	Balance to complete	Total
Federal	1,900*	60	10	10	60	2,040
State	700	338	361	197.5	2,413.5	4,010
Tribal						
Local						
Other						
Total	2,600	398	371	207.5	2,473.5	6,050

*\$1,900,000 is contribution of land 64 acres

Hyperlink: N/A
Contact: N/A

Program Name: Infrastructure
Project Name: C&SF: CERP – Acme Basin B Discharge (OPE)
Project ID: 1100 (CERP Project # WBS 38)
Lead Agency: USACE / SFWMD
Authority: CERP Programmatic Authority, projects not exceeding \$25M
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: 2.A.3

Measurable Output(s): 365-acre constructed upland/wetland mosaic

Project Synopsis: This project includes an operational plan and the construction of a 365-acre upland/wetland mosaic adjacent to the Loxahatchee National Wildlife Refuge in Palm Beach County. The operational plan would capture water that would otherwise be lost to tide by routing water west through the C-51 canal to storm water treatment area (STA) 1E for water quality treatment. The plan would provide system-wide benefits to the Refuge and also benefit the Lake Worth Lagoon by reducing damaging freshwater flows. The upland/wetland mosaic would increase spatial extent and provide habitat for threatened and endangered species.

A draft Project Implementation Report (PIR) is currently under development. The SFWMD, through its Acceler8 initiative, is advancing the design and construction of the project.

Cost: \$24,241,000

Project Schedule:

Project construction is scheduled to be completed in 2007.

	2002	2003	2004	2005	2006	2007
PIR/Plans and Specs						
Real Estate						
Construction						

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	Total
USACE	1,049	3,691	3,691	3,691	12,121
SFWMD	519	3,867	3,867	3,867	12,120
Total	1,568	7,558	7,558	7,558	24,241

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_38_acme.cfm

Contact: David Tipple, Chief North/Central Florida Restoration Branch, USACE
(904) 232-1375, David.A.Tipple@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Mineral Rights Acquisition
Project Name: Big Cypress National Preserve Mineral Rights
Project ID: 2400
Lead Agency: National Park Service
Authority:
Funding Source:

Strategic Plan Goal(s) Addressed: Primary: Other

Measurable Output(s): Acres Acquired

Project Synopsis: Acquire the non-Federal mineral rights on approximately 729,000 acres in the Big Cypress National Preserve. The Secretary of the Interior has made an announcement of the intent to purchase the rights from Collier Resources. The Collier family is the primary holder of mineral rights in the Preserve. The Secretary's announcement did not include acquisition of other mineral rights.

Acquisition of mineral rights would protect wetlands habitat from oil and gas development activities. The goal is acquisition of all mineral rights which would preclude surface disturbance associated with mineral exploration and development in relatively pristine wetlands.

Cost:

Total breakdown is unknown. For the Collier acquisition (which includes other land management agencies) the total amount included in the FY 2005 budget request was \$40 million; no such request is proposed for 2006.

Project Schedule:

Start Date: 2000
Finish Date: open

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Appraisal											
Acquisition											

Detailed Project Budget Information

	Thru 1999	2000	2001	2002	2003	2004	2005	2006	2007	Balance to complete	Total
Federal											TBD
Total											TBD

Hyperlink:

Contact: Ron Clark, (239) 695-1106

Program Name: Infrastructure
Project Name: C&SF: CERP - Flow to Northwest and Central Water Conservation Area 3A (II)(RR)
Project ID: 2401 (CERP Project # WBS 11)
Lead Agency: USACE / SFWMD
Authority: Not Authorized
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: 3.C.1

Measurable Output(s): Increased flows to WCA 3A

Project Synopsis: This feature includes relocation and modifications to pump stations and development of a spreader canal system located in the northwest corner and west-central portions of Water Conservation Area 3A in western Broward County. Additional flows will be directed to the northwest corner and west-central portions of Water Conservation Area 3A by increasing the capacity of the G-404 pump station, currently a part of the Everglades Construction Project, and increasing the capacity and relocating the S-140 pump station. A spreader canal system at S-140 will establish sheetflow to the west-central portion of Water Conservation Area 3A. Water quality treatment strategies were developed to fulfill the non-Everglades Construction Project requirements of the Everglades Forever Act. If additional treatment is determined to be required as a result of future detailed planning and design work, those existing facilities would be modified to provide the necessary treatment.

Cost: \$35,424,000

Project Schedule:

Project is scheduled to complete construction in Band 3 (2015 – 2020).

G-404 (II)	2010	2011	2012	2013	2014	2015
PIR/Plans & Specs						
Real Estate						
Construction						

Flows (RR)	2010	2011	2012	2013	2014	2015	2016	2017
PIR/Plans & Specs								
Real Estate								
Construction								

Detailed Project Budget Information (\$1000)

	Thru 2004	2010	2011	2012	2013	2014	Balance to Complete 2015-2017	Total
USACE	59	353	530	4,943	353	4,413	7,061	17,712
SFWMD	7	354	531	4,957	354	4,426	7,082	17,712
Total	66	707	1,061	9,900	707	8,840	14,143	35,424

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_11_flow_nw_central.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Project 2401 Page 2 of 2

Program Name: South Florida Ecological Services Office Threatened and Endangered Species Program
Project Name: South Florida Multi-Species Recovery Plan
Project ID: 2402
Lead Agency: USFWS
Authority: Endangered Species Act of 1973 (16 U.S.C. 1531-1543)
Funding Source:

Strategic Plan Goal(s) Addressed: Primary: 2.A.4

Measurable Output(s): Number of species delisted, number of species reclassified, number of species status improving

Project Synopsis: A Multi-Species Recovery Plan (MSRP) for the threatened and endangered species of South Florida was completed in May 1999. This document was prepared to fulfill a major element of the South Florida Ecosystem Restoration Initiative. It contains information on the biology, ecology, status, trends, management, and recovery actions for 68 federally-listed species that occur in South Florida, as well as the ecology and restoration needs of 23 natural communities in this region. Implementation of the Recovery Plan is underway through the work of the Service and its partners. In 2006, the Service will publish the final implementation schedule to prioritize the recovery tasks identified in the MSRO. The implementation schedule also provides cost estimates, time frames and a participant list for certain recovery tasks.

Two of the most significant recovery actions identified in the MSRP are the acquisition of selected acreage of land for five National Wildlife Refuges in South Florida and control of invasive exotic species such as melaleuca, Brazilian pepper, Australian pine and Old World climbing fern. Additional lands for Archie Carr NWR, J.N.Ding Darling NWR, Pelican Island NWR, Lake Wales Ridge NWR and Crocodile Lake NWR as well as conservation easements for the Florida panther, are necessary for the recovery of threatened and endangered species in South Florida. The other critical component of restoration is the control of invasive exotic species which when present can render the lands unsuitable for their intended uses. Currently, over 100,000 acres of National Wildlife Refuge lands are infested with over 30 species of exotic vegetation. Over 70,000 acres of A.R.M. Loxahatchee NWR is infested with melaleuca and Old world climbing fern. These areas must be cleared of infestations for the lands to provide the necessary habitat for threatened and endangered species.

Cost:	
Total:	\$386,991,000
Project Development:	\$8,000,000
Land Acquisition:	\$309,973,000 (Nat'l Wildlife Refuge)
Implementation:	\$27,160,000
Operations and maintenance: NWRs)	\$49,850,000 (Exotic plant control on NWRs)

Project Schedule:
Start Date: 1994
Finish Date: 2010

Detailed Project Budget Information (\$1000)

	Thru 1999	2000	2001	2002	2003	2004	2005	Balance to complete	Total
Federal Project implementation*	\$8,000	\$1,560	\$1,560	\$1,560	\$1,560	\$1,560	\$1,560	\$9,800	\$27,160
Land acq ¹	\$56,800	\$785	\$3,588	\$3,000	\$7,010	\$10	\$10	\$238,770	\$309,973
O&M ²	\$350	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$22,500	\$49,850
State									
Tribal									
Local									
Other									
Total	\$65,150	\$6,845	\$9,648	\$9,060	\$13,070	\$6,070	\$6,070	\$271,070	\$386,983

*Only funds for Project Development and Implementation- USFWS

¹ Lands acquisition for National Wildlife Refuges (NWR)

² Invasive plant and animal control on NWRs

Hyperlink: N/A

Contact: Bob Doren 305-348-1660

Project 2402 Page 2 of 2

Program Name: Infrastructure
Project Name: WCA 2A Regulation Schedule Review
Project ID: 2403
Lead Agency: USACE
Authority: WRDA
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: Other

Measurable Output(s): Revised WCA-2A Regulation Schedule

Project Synopsis: The purpose of the project is to evaluate the feasibility of modifying operational modifications for WCA 2A to benefit its fish and wildlife resources, without adversely impacting the area's ability to satisfy its flood control and water supply purposes. The study can be implemented with existing operational and maintenance authority. It can be funded through ongoing O&M appropriations for the Corps of Engineers. This project will be done in coordination with the Rain-Driven Operations.

Cost: TBD

Project Schedule: TBD

Detailed Project Budget Information (\$1000)

No budget information available, as project has not started.

Contact: USACE

Program Name: Infrastructure
Project Name: C&SF: Manatee Pass Gates
Project ID: 2404 (CERP Project # WBS 511)
Lead Agency: USACE / SFWMD
Authority: WRDA 1994
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed:

Measurable Output(s): Other

Project Synopsis: The purpose of this project is to develop and install Manatee Protection Devices on vertical lift gates and sector gates at specific navigation and flood control structures. Phase 2 is under construction.

Cost: \$13,800,000

Project Schedule:

Start Date: 2001
 Finish Date: 2007

	Thru 2004	2005	2006	2007
PIR/ Plans & Specs				
Real Estate				
Construction				

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	Total
USACE	6,636	1,655	1,655	1,655	11,600
SFWMD	419	594	594	594	2,200
Total	7,055	2,248	2,248	2,248	13,800

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
 (904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Program Name: Invasive Exotic Species Management
Project Name: Coordinate the development of management plans for top 20 south Florida exotic pest plants
Project ID: 2500
Lead Agency: NEWTT (Noxious Exotic Weed Task Team)
Authority:
Funding Source:

Goal(s) Addressed: 2.B.1

Measurable Output(s): Species assessments, prioritized list of species, develop control methods, research reports on basic species biology, management plans, assessment of success, acres of invasion reduced

Project Synopsis: Each priority species will have a management plan developed. Existing plans that have proven effective will serve as examples. Plans will be developed through multi-agency coordination and planning. Two plans will be started each year and the plans will take 18 months to complete. All twenty plans will be completed within 10-12 years. As individual plans are completed they will be incorporated into the broader invasive exotic plant strategy. Multi-agency approval of each plan will be required to ensure support and funding. Accomplishments to date have included an assessment of the key species and priorities for plan development. No new plans are being developed at this time as no funding or agency leadership for developing these plans has been identified. In addition, FDEP has expressed that additional plans for control of the key invasive species is not needed and thus the development of such plans is in question.

To date no funding has been provided to begin this project.

Cost:

Total	\$600,000
Project Development	\$30,000 per plan
Land Acquisition	N/A
Implementation Unknown	
Operations and maintenance Unknown	

Project Schedule:

Proposed Start Date:	Spring 2001
Finish Date:	2011

Detailed Project Budget Information (1000s)

	Thru 1999	2000	2001	2002	2003	2004	Balance to complete	Total
Federal								
State								
Tribal								
Local								
Other								
Total								\$600

Hyperlink:N/A

Contact: N/A

Program Name: Invasive Exotic Species Management
Project Name: Achieve “maintenance control*” status for Brazilian pepper, melaleuca, Australian pine and Old World climbing fern in all natural areas statewide by 2020.
Project ID: 2600
Lead Agency: SFWMD/DEP/USFWS

Goal(s) Addressed: Primary: 2.B.2

Measurable Output(s): Completed plans for Old World climbing fern and Australian pine, agency integration and coordination for control of most wide-spread and serious species, implementation of all plans for these species as a coordinated program, development of control methods for Old World climbing fern, full implementation of biological control programs for Old World climbing fern, melaleuca, and Australian pine, reduction total acreage covered statewide, maintenance control for hydrilla, water hyacinth, water lettuce, Brazilian pepper, Australian pine, Old World climbing fern on all public lands, biennial assessments of success, application of planning and control techniques to additional species as plans are developed.

Project Synopsis: : The Old World climbing fern management plan has been updated and revised for 2006. The Lygodium Task Force of the Florida Exotic Pest Plant Council completed the revision in November 2005. New herbicide trials and biological control elements of the plan have been underway and are showing some progress in understanding how to possibly manage this serious pest. The first insect has been released on Lygodium and monitoring is underway to successful establishment and spread of the insect in the wild and preliminary effects on the Lygodium sites where the insects are distributed. However, no significant inroads into control of Old World climbing fern have been made except at very local levels in small park areas. No plan exists for Australian pine. There is still a large gap in acquiring sufficient funding to implement the multi-species control program with multi-agency integration. Partial funding through the SFWMD, FLDEP and USFWS for public lands in south Florida has been allocated for melaleuca and Old World climbing fern; and maintenance control has been achieved for melaleuca on SFWMD, NPS and identified DEP upland control sites. Brazilian pepper still has no control funding but an enhanced biological control program was started in 2005; the direction of the program was moved to the Davie Quarantine facility and the SFWMD increased project funding.

Cost:

Total	\$139,078,000
Project Development	N/A
Land Acquisition	N/A
Implementation	\$5,000,000 per year for 15 years
Operations and maintenance	\$2,000,000 per year thereafter for maintenance control

Project Schedule:

Proposed Start Date: 2002
 Finish Date: Achieve maintenance control 2020

Detailed Project Budget Information (1,000,000s)

	Thru 1999	2000	2001	2002	2003	2004	Balance to complete	Total
Federal				10.3		7.6		
State				39.8		38.5		
Tribal								
Local				20.6		0.45		
Other								
Total				70.7		46.55	\$68,338	\$139,078

*Maintenance Control is simply defined in SS.369.22(1)(d), F.S., as applying management techniques on a continuous basis to keep non-indigenous plant populations at the lowest feasible levels.

Hyperlink: N/A

Contact: Bob Doren (305) 348-6721

Program Name: Invasive Exotic Species Management
Project Name: Integration of Federal, State, and Local Agency Invasive Exotic Control Programs into Florida-wide Strategy
Project ID: 2601
Lead Agency: National Park Service

Goal(s) Addressed: Primary: 2.B.2

Measurable Output(s): The ratio of acres under maintenance control to total acres (by species)

Project Synopsis: Compilation of all Federal, State, and Local Agency programs participating in NEWTT (Noxious Exotic Weed Task Team) to develop statewide assessment and strategy for control of invasive exotic plants. Includes 5 Federal Agencies, 6 State Agencies, Actual cost reports for 26 reporting counties, estimated cost reports for 23 non-reporting counties, and one city government. This project incorporates the integration of all these Agencies under the current development and future implementation of the Strategic Plan for Managing Invasive Exotic Plants in Florida. This is the first integration of programmatic and budgetary information on a statewide basis. It includes all invasive exotic plant management programs statewide, including those related to South Florida Ecosystem Restoration, and incorporates the previous individually identified projects and programs that were part of the South Florida Ecosystem Restoration Strategic Planning effort.

Project includes the development of the Strategic Plan for Invasive Exotic Plant Management, Development of an Implementation Plan, and the first 5 years integration of individual agency programs and of implementation of the plan. Invasive exotic plant management does not have a completion date per se as management will continue as long as species are extant. However, it is estimated that the key elements of the Strategy can be implemented within 5 years and the greater proportion of the strategy should be able to be in place within 10 years with some individual recommendations taking longer. The COE is funding a special report on the Federal role in invasive species management that will include the implementation planning elements of the strategic plan for federal agencies.

Cost:
Total TBD
Project Development
Land Acquisition
Implementation \$60,850,000 (Annual Requirement)
Operations and maintenance \$76,418,000 (Annual Requirement)

Project Schedule:
Proposed Start Date: 2000
Finish Date: 2005 – This date is used as a guidepost to implement the key elements of the strategic plan.

Detailed Project Budget Information (\$1000)

	Thru 1999	2000	2001	2002	2003	2004	Balance to complete	Total
Federal*		\$30,782	\$30,782	\$30,782	\$30,782	\$30,782	\$40,900	TBD
State**		\$22,436	\$22,436	\$33,436	\$33,436	\$33,436	\$19,750***	TBD
Tribal		Not Reported					Not Reported	
Local		\$23,200	\$23,200	\$23,200	\$23,200	\$23,200	Not Reported	
Total		\$76,418	\$76,418	\$87,418	\$87,418	\$87,418	\$60,650***	TBD

*Current Costs for Federal Agencies may be assumed for following years

**Current Costs for State Agencies may be assumed for following years, except FLDEP has received their requested increase for 2002

***Balance to Complete would be reduced by ~ \$11 Million in 2002 as FLDEP receives their increase that year.

****The TOTAL figure is going to be conservative as some agencies could only estimate their expenditures, others did not report theirs, and still other did not estimate shortfalls needed to complete (see below).

Florida DOF did not report estimated costs for control. The USACOE, Florida FWCC, FDOF, Local Governments, did not identify shortfalls for balance to complete.

Hyperlink: N/A
Contact: Walter Chavez (305) 242- 7700

Program Name: Infrastructure

Project Name: C&SF: CERP - Melaleuca Eradication Project and other Exotic Plants (OPE)

Project ID: 2602 (CERP Project # WBS 95)

Lead Agency: USACE / SFWMD

Authority: WRDA 2000 (Programmatic Authority)

Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: 2.B.2

Measurable Output(s): Increase effectiveness of biological control technologies

Project Synopsis: The Melaleuca Eradication and Other Exotic Plants project is a two-part plan that enhances efforts to control invasive exotic plant species in South Florida. The two parts include (1) mass rearing and controlled release of biological agents throughout South Florida, and (2) preparation of a report to further define the overall problem with exotic invasive plants and to make a recommendation regarding further federal involvement. The mass rearing and controlled release of biological agents is to be implemented concurrent with development of a system-wide plan for exotics.

The Special Report was completed in 2004, and a draft Project Implementation Report (PIR) is underway.

Cost: \$6,554,000

Project Schedule:

Project is scheduled to be completed in 2009.

	2004	2005	2006	2007	2008	2009
PIR/Plans and Specs						

Detailed Project Budget Information (\$1000)

	Thru 2004	2005	2006	2007	2008	2009	Total
USACE	472	561	561	561	561	561	3,277
SFWMD	0	655	655	655	655	655	3,277
Total	472	1,216	1,216	1,216	1,216	1,216	6,554

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_95_melaleuca.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Invasive Exotic Species Management
Project Name: Estero Bay Aquatic Preserve and Buffer Enhancement and Exotic Removal Project
Project ID: 2603
Lead Agency: FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Authority: Chapter 403, Florida Statutes
Funding Source:

Strategic Plan Goal(s) Addressed: 2.B.2

Measurable Output(s): Acres of exotic plants removed

Project Synopsis:

I. Melaleuca removal: Treatment, removal, monitoring and follow-up treatment of 708 acres of Melaleuca within the 10,405 acre Estero Bay Preserve State Park – **PROJECT COMPLETED**

II. Dog Key Exotic Removal: Treatment, removal, monitoring and follow-up treatment of exotic vegetation on Dog Key, a 24 acre island within the Estero Bay Aquatic Preserve and part of the Estero Bay State Buffer Preserve with documented Calusa Indian middens/mounds – PROJECT COMPLETED

Cost: Total: \$1.05 million

Project Development:

I. Melaleuca Removal – The initial aerial treatment of 708 acres of melaleuca was completed through funding by the Bureau of Invasive Plant Management (BIPM) at a cost of approximately \$100,000.00. Only the heavily infested monoculture areas were treated, leaving untreated buffers around native plant communities. It will be necessary to hand treat these buffer areas and any unsuccessful initial treatment areas. It is anticipated that \$600,000.00 will be needed for this work. Monitoring and follow-up treatment of this large-scale treatment still needs funding. Smoke from a prescribed fire within these treatment areas (dead) would be a major problem in the Estero development area so actual removal of dead or live trees off site would be preferable. In this case, costs could exceed the \$600,000.00 figure.

Implementation:

I - initial treatment completed in 2001. On the ground treatment of the buffer areas (edges of the treated areas) and any unsuccessful treatment areas should also occur toward the end of 2001 or beginning of 2002. Monitoring and follow-up treatment to continue through 2004 at an estimated cost of \$300,000.00.

Operations and maintenance: Total =2,852 acres treated at a cost \$1,129,214
Estimated at \$40,000.00 through 2004.

Project Schedule:

Start Date: 1998
Finish Date: 2004

Detailed Project Budget Information (1000s)

	Thru 2003	2004	2005	2006	2007	2008	Balance to complete	Total
Federal								
State	\$1,100							
Tribal								
Local								
Other								
Total	\$1,100							TBD

Hyperlink: N/A
Contact: N/A

Program Name: Invasive Exotic Species Management
Project Name: Everglades National Park Exotic Control Program
Project ID: 2604
Lead Agency: National Park Service
Authority:
Funding Source:

Strategic Plan Goal(s) Addressed: 2.B.2

Measurable Output(s): Acres infested with Exotic Plants

Project Synopsis: Exotic plants are the single most serious long-term threat to Everglades National Park. Over 200,000 acres of the park and 500,000 acres of adjacent lands are infested. Without control and management, these plants can and will continue to replace all native plant communities in the park. Funds are needed for control efforts and determining effective means of dealing with the many exotic species.

The program will (1) complete the initial treatment of melaleuca and Australian pine in the East Everglades; (2) perform retreatment of Old World climbing fern along the Gulf Coast; (3) complete the initial treatment of Australian pine in the southeastern panhandle; (4) perform retreatment of Asiatic colubrina sites along the northern fringe of Florida Bay; (5) perform the annual reconnaissance flight across the park to monitor and document exotic plant occurrence, (6) perform initial treatment and/or retreatment of localized populations of exotic Ardisia, Schinus, and other exotic pest plants in all the park's districts, and (7) support the essential monitoring and maintenance control programs in treated zones..

Cost:
 Total: \$2,150,000

Project Schedule:

Start Date: 2002
 Finish Date: To be determined

	1997	1998	1999	2000	2001	2002	2003	2004
Operation/Management								

Detailed Project Budget Information (\$1,000)

	Thru 1999	2000	2001	2002	2003	2004	2005	Balance to complete	Total
Federal				508	400	1,414	493		TBD
Non-Fed				396	200	571	971		
Total				904	600	1,985	1,464		TBD

Hyperlink: N/A

Point of Contact: Margaret Garvin (305) 242-7721

Program Name: Invasive Exotic Species Management
Project Name: Exotic Vegetation Control (Critical) in Big Cypress National Preserve
Project ID: 2607
Lead Agency: National Park Service
Authority:
Funding Source:

Strategic Plan Goal(s) Addressed: 2.B.2

Measurable Output(s): Acres infested with invasive exotic plant species

Project Synopsis: Treatment, re-treatment and subsequent monitoring and evaluation of *Melaleuca quinquenervia*, *Schinus terebinthifolius*, and *Lygodium microphyllum*, introduced species from Australia, South America, and Asia, that are recognized as serious threats to the Big Cypress/Everglades ecosystem. Removal of these invasive exotic species from sensitive Preserve wetlands will permit the re-establishment of native plant communities. Efforts to date have involved treatment of more than 150 square miles of Big Cypress wetlands. Maintenance control activities and funding for exotic plant species are anticipated to continue at a level sufficient to keep them under control within BICY.

Cost:
Total through 2008 \$4,000,000

Project Schedule:
Start Date: 1998
Finish Date: Ongoing

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Treatment												
Re-Treatment												
Monitoring												

Detailed Project Budget Information

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Total
Federal												2,000
Local												2,000
Total	450	450	600	650	650	200	200	200	200	200	200	4,000

Hyperlink: <http://www.nps.gov/bicy/exotic.htm>
Point of Contact: Ron Clark, (239) 695-1106

Program Name: Invasive Exotic Species Management
Project Name: Aquatic and Upland Invasive Plant Management
Project ID: 2608
Lead Agency: FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Authority: Chapter 369, F.S.
Funding Source:

Strategic Plan Goal(s) Addressed: 2.B.2

Measurable Output(s): Acres of upland and aquatic invasive plants controlled¹

Acres Controlled:
 Aquatics Program 58,043
 Uplands Program 102,561

Project Synopsis: The Bureau of Invasive Plant Management is the lead agency in Florida responsible for coordinating and funding two statewide programs controlling invasive aquatic and upland plants on public conservation lands and waterways throughout the state. The aquatic plant management program designs, funds, coordinates, and contracts invasive non-native aquatic plant control efforts in Florida's 1.25 million acres of public waters. The upland plant management program coordinates and funds invasive plant removal projects on 11 million acres of public conservation lands, which include federal, state, and local government owned lands.

Cost:

Total (operations and maintenance):
 Aquatics Program \$29,747,718
 Uplands Program \$8,686,929

Project Schedule:

Start Date: annual
 Finish Date: continuous

Detailed Project Budget Information (1000s):

	2002	2003	2004	2005	2006	2007	Total
Federal	400	795.5	944	676.9			
State ²	20,536.9	28,038.3	22,122.8	29,747.7			
Tribal	0	0	0	0			
Local	54.3	255.7	129	0			
Other	0	0	0	0			
Total	20,991.3	29,089.5	23,195.8	30,424.6			TBD

¹Within the 16-county SFWMD region during the previous state fiscal year

²Includes \$1 million match from SFWMD for melaleuca control

Hyperlink <http://www.dep.state.fl.us/lands/invaspec/index.htm>

Contact: Greg Jubinsky 850-245-2821

Program Name: Invasive Exotic Species Management
Project Name: Complete an Invasive Exotic Plant Prevention, Early Detection and Eradication Plan by 2005
Project ID: 2700
Lead Agency: NEWTT/NPS/DEP
Authority:
Funding Source:

Goal(s) Addressed: 2.B.3

Measurable Output(s): “Early Warning” system for Florida to identify exotic species invasion risk, and locations of new infestations of new species or species under maintenance control, roving invasive species strike teams to assist in locating and eradicating localized population of invasive exotic species, risk-assessment system to support current state prohibitions lists and coordination with USDS-APHIS for prohibitions, support for existing control programs through identification of re-infestation of sites by existing species in maintenance control areas.

Project Synopsis: Preventing the introduction of invasive species is the only absolute means to control them, but absolute prohibitions and exclusions are impractical. An “early warning” program for potentially invasive species, a risk-assessment for evaluating possible invasiveness prior to introduction, methods for early detection of incipient populations of new species, predictive tools to assist in determining where plants may invade, and the ability to eradicate incipient populations are needed. NPS & FLDEP teams are operating and jointly funded. Additional agencies are being recruited to expand team support and coverage. Early-warning system and risk assessment protocols have not been funded. While the need for Early-Detection Rapid Response program are identified by several agencies none are being funded or implemented in any agency programs at this point.

No authorization or funding have been provided to begin this project.

Cost:

Total	\$5,000,000 plus O&M
Project Development	\$4,000,000 one time
Land Acquisition	
Implementation	\$1,000,000 one time
Operations and maintenance	\$2,500,000 per year

Project Schedule:

Proposed Start Date: 2001
 Finish Date: Invasive Plant Strike Teams in place 2002, Completed “early-warning” system 2003, Risk-assessment system, 2004, operations and maintenance of completed system and teams 2004

Detailed Project Budget Information

	Thru 1999	2000	2001	2002	2003	2004	Balance to complete	Total
Federal								
State								
Tribal								
Local								
Other								
Total								TBD

Hyperlink:N/A

Contact: Bob Doren - (305) 348-6721

Program Name: Invasive Exotic Species Management
Project Name: Melaleuca Quarantine Facility
Project ID: 2701
Lead Agency: U.S. Department of Agriculture – Agricultural Research Service
Authority: ARS
Funding Source:

Strategic Plan Goal(s) Addressed: 2.B.3

Measurable Output(s): Number Biological Agents Approved

Project Synopsis. Biological control agents have the potential of providing greater efficiency and improved economy. Ultimately, they may prove to be the only truly effective large-scale means of reversing and halting the effects of non-native species on the South Florida habitat. This project consists of constructing a quarantine facility to enable the testing of candidate organisms for biological control and reversal of the spread of exotic plant species. Construction of the quarantine facility has been completed after an additional contribution of about \$500K by USDA-ARS and \$400K from the South Florida Water Management District. It opened during March 2005. Design problems and shoddy construction of some critical subsystems are hampering full use of the quarantine areas but funding for needed repairs has not been identified. Full staffing has not been realized due to a lack of O&M funds (\$350K/yr estimated need).

Cost:
 Total: \$7,200,000
 Project Development: \$1,000,000
 Land Acquisition: \$0 (long term lease - University of Florida)
 Implementation: \$5,200,000
 Operations and maintenance: not yet included in budget

Project Schedule:
 Start Date: 1997
 Finish Date: 2003

Detailed Project Budget Information (\$1000)

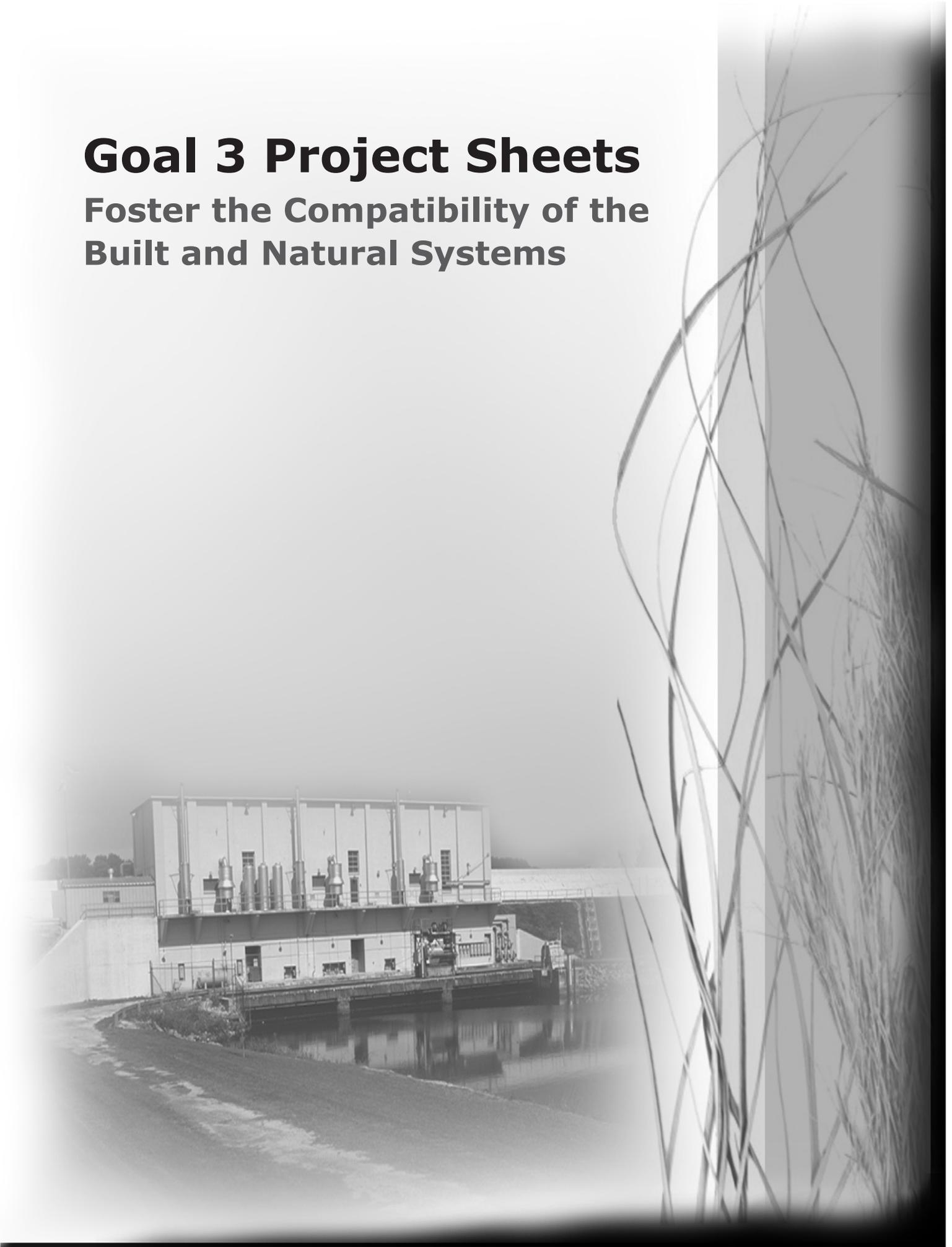
	Thru 1999	2000	2001	2002	2003	2004	Balance to complete	Total
Federal	\$1,000		\$600	\$3,200	\$1,400			\$6,200
State								
Tribal								
Local								
Other								
Total	\$1,000		\$600	\$3,200	\$1,400		1,000	\$7,200

Hyperlink:N/A
Point of Contact: Ted Center, 954-475-0541 (USDA – ARS)

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Goal 3 Project Sheets

**Foster the Compatibility of the
Built and Natural Systems**





Goal 3: Foster the Compatibility of the Built and Natural Systems

Subgoal 3-A: Use and manage land in a manner compatible with ecosystem restoration.

Objective 3-A.1: Designate or acquire an additional 480,000 acres as part of the Florida Greenways and Trails System by 2008.

Objective 3-A.2: Increase participation in the Voluntary Farm Bill Conservation Programs by 230,000 acres by 2014.

Objective 3-A.3: Acquire an additional 2,500 acres of park, recreation, and open spaces by 2006.

Objective 3-A.4: Compile five brownfield rehabilitation and redevelopment projects by 2006.

Objective 3-A.5: Increase community understanding of ecosystem restoration.

Subgoal 3-B: Maintain or improve existing flood protection in a manner compatible with ecosystem restoration.

Objective 3-B.1: Maintain or improve existing levels of flood protection.

Subgoal 3-C: Provide sufficient water resources for built and natural systems.

Objective 3-C.1: Increase the water available by target of 478.5 million gallons per day by 2008.

Objective 3-C.2: Increase volume of reuse on a regional basis.

Objective 3-C.3: Increase water made available through the SFWMD Alternative Water Supply Development Program.

Program Name: Florida Greenways and Trails
Project Name: Florida Greenways and Trails Program
Project ID: 3100
Lead Agency: FDEP-Florida Office of Greenways and Trails
Authority: Acquisition: Florida Forever Act, Section 259.105, Florida Statutes
Designation: Chapter 260, F.S.; 62S-1.400, 62S-1.450, F.A.C
Funding Source: Florida Forever

Strategic Plan Goals(s) Addressed: 3.A.1

Measurable Output(s): Target 480,000 acres

Project Synopsis: The Florida Office of Greenways and Trails is guiding a statewide initiative to create a system of greenways and trails connecting communities and conservation areas. When completed the trail system will connect one end of the state to the other, from Key West to Pensacola.

The Florida Forever Act authorizes a land acquisition program for the statewide trail system. This is a competitive program that provides funding for local and regional land acquisition projects that will facilitate the establishment of a statewide system of greenways and trails. The primary mission of this program is to facilitate the establishment of a statewide system of greenways and trails for recreation and conservation purposes. Once acquired, the property is owned by the Board of Trustees of the Internal Improvement Trust Fund (Governor and Cabinet) and managed by the state, regional and local governments.

The Office of Greenways and Trails Designation Program encourages voluntary partnerships in conservation, development, and management of greenways and trails, provides recognition for individual components of the system and the partners involved, and raises public awareness of the conservation and recreation benefits of greenways and trails. The criteria for a designated land or waterway are that it must (1) protect and/or enhance natural, recreational, cultural or historic resources and (2) either provide linear open space or a hub or site, or promote connectivity between or among conservation lands, communities, parks, other recreational facilities, cultural sites, or historic sites.

Cost:
Total \$4.5 million for land acquisition (statewide)
No direct cost to the state for designation
Project Development
Land Acquisition \$4.5 million (statewide)
Implementation
Operations and maintenance

Project Schedule:
Start Date: 2000
Finish Date: 2009

South Florida Acres
Through Fiscal Year 2003 227,094 acres plus 75 linear miles
Through Fiscal Year 2004 298,774 acres plus 147 linear miles (add 71,680 acres & 72 linear miles)

Money Spent \$FY 03-04 - no land acquisition dollars spent
\$FY 04-05 - \$174,000

Hyperlink: <http://www.dep.state.fl.us/gwt/>
Contact: Heather Pence (designations) 850-245-2052
Cindy Radford (acquisitions) 850-245-2052

Program Name: Florida Greenways and Trails Program
Project Name: Lake Okeechobee Scenic Trail
Project ID: 3102
Lead Agency: Office of Greenways and Trails
Authority: Department of Environmental Protection
Funding Source:

Strategic Plan Goal(s) Addressed: 3.A.1

Measurable Output(s): Designated miles of trails

Project Synopsis: The LOST will consist of an 11 foot wide paved trail with 3 foot wide grassed shoulder on the lake side. It will accommodate pedestrians, backpackers, bicyclists, equestrians, sightseers, naturalists, skaters, picnickers, campers and fishermen. The trail will be approximately 110 miles long.

Cost:

Total: \$25,000,000
 Project Development:
 Land Acquisition:
 Implementation:
 Operations and maintenance: \$ 100,000.00 a year when completed

Project Schedule:

Start Date: 7/1/03
 DOT Segment One is complete between the Kissimmee River and the St. Lucie Canal (26 miles)
 DOT Segment Two is underway between Moore Haven and Pahokee (36 miles)
 Finish Date: Completion date will depend on monies from D.E.P.

Detailed Project Budget Information (1000s)

	2003	2004	2005	2006	2007	Balance to complete	Total
Federal	6,250	6,250					12,500
State						12,500.	
Tribal							
Local							
Other							
Total	6,250	6,250				12,500	25,000

Hyperlink: <http://www.dep.state.fl.us/gwt/>

Contact: FDEP

Program Name: Watershed Management Assistance
Project Name: Technical Assistance to Seminole and Miccosukee Indian Reservations
Project ID: 3201
Lead Agency: Natural Resources Conservation Service
Authority: Public Law 46 & Public Law 566
Funding Source:

Strategic Plan Goal(s) Addressed: 3.A.2

Measurable Output(s): Target 107,000 Acres

Project Synopsis: From a watershed management perspective, assist the Seminole and Miccosukee Indian Reservations to plan and implement resource management systems on a voluntary basis to reduce nutrient loading. Assistance will be provided to each agricultural producer, at the direction of the Tribal Councils, to assist in their planning, design, application, cost shared installation and management of BMP's that will improve water quality and the ecological integrity of the landscape.

Cost:

Total (projected through 2006)	\$15,000,000
Project Development	
Land Acquisition	
Implementation	
Operations and maintenance	
Management	\$15,000,000

Project Schedule:

Start Date: 1998
 Finish Date: 2011

Detailed Project Budget Information (1000s)

	2003	2004	2005	2006	Balance to Complete	Total
Federal	\$300	\$200	\$193	\$210	\$14990	\$15,000
State						
Tribal						
Local						
Other						
Total	\$300	\$200	\$193	\$210	\$14,990	\$15,000

Hyperlink: N/A

Contact: Edward Wright – 386-329-4116 (USDA – NRCS)

Program Name: Agricultural Assistance
Project Name: 2002 Farm Bill
Project ID: 3202
Lead Agency: Natural Resources Conservation Service
Authority: Farm Security and Rural Investment Act of 2002 (Farm Bill)
Funding Source:

Strategic Plan Goal(s) Addressed: 3.A.2

Measurable Output(s): Acres Enrolled in 2002 Farm Bill Programs

Project Synopsis: The 2002 Farm Bill responds to a broad range of emerging natural resource challenges faced by farmers and ranchers, including soil erosion, wetlands, wildlife habitat, and farmland protection. Private landowners will benefit from a portfolio of voluntary assistance, including cost-share, land rental, incentive payments, and technical assistance. The 2002 Farm Bill places a strong emphasis on the conservation of working lands, ensuring that land remain both healthy and productive. The assistance includes the design, layout and consultation services associated with the conservation practice application or management guidance provided. Technical assistance is targeted towards nutrient management, water quality, and water conservation concerns associated with animal feeding, livestock grazing operations and fruit and crop production within the Everglades Ecosystem. As of 2005, a total of 1,098,016 acres in the sixteen-county South Florida region were enrolled in these and other Farm Bill Conservation Programs at an obligated cost of \$66.8 million dollars.

Cost:

Total: \$97,436,000
 Project Development:
 Land Acquisition:
 Implementation:
 Operations and maintenance:

Project Schedule:

Start Date: 2002
 Finish Date: 2007

Detailed Project Budget Information (1000)

	Through 2004	2005	2006	2007	Balance to Complete	Total
Federal	\$51,700	\$15,168	\$15,268	\$15,300		97,436
State						
Tribal						
Local						
Other						
Total	\$51,700	\$15,168	\$15,268	\$15,268		\$97,436

Hyperlink: <http://www.nrcs.usda.gov/programs/farmbill/2002/>

Contact: Edward Wright – (386) 329-4116 (USDA – NRCS)

Program Name: Florida Greenways and Trails Program
Project Name: Florida Keys Overseas Heritage Trail
Project ID: 3301
Lead Agency: Office of Greenways and Trails
Authority: Florida Department of Environmental Protection

Strategic Plan Goal(s) Addressed: 3.A.3

Florida Keys Overseas Heritage Trail Vision

The Florida Keys Overseas Heritage Trail (FKOHT) is being developed by the FDEP/DRP, the Florida Department of Transportation (FDOT) and Monroe County as a world-class, multi-use bicycle and pedestrian facility that will traverse the Florida Keys from Key Largo to Key West. A recreational greenway, that upon completion, will include an integrated system of educational kiosks, roadside picnic areas, scenic overlooks, fishing piers, water access points, and bicycle and jogging paths serving both residents and visitors to the Florida Keys. The FKOHT will link communities by providing a safe and continuous multi-use path, offer an alternative form of transportation, help mitigate congestion, promote health opportunities, and provide a mechanism for the preservation and use of the historic Flagler Railroad Bridges. The trail will also provide outstanding educational opportunities for both residents and visitors to learn about the unique history of the Florida Keys and the importance of sustainable development, by offering cultural, historical and ecological interpretation, as users traverse the historical railroad bridges and the many conservation areas between Key Largo and Key West. The trail is supported by the Florida Governor as one of the top three trails in the State of Florida.

Measurable Output(s): Miles of trails: Existing 52, Proposed 40 additional

A recreational greenway, that upon completion, will include an integrated system of educational kiosks, roadside picnic areas, scenic overlooks, fishing piers, water access points, and bicycle and jogging paths serving both residents and visitors to the Florida Keys.

Project Synopsis:

Trail Planning and Development

Spurred by concerns in the community for the future of the Old Keys Bridges and under Executive Order, the “Old Keys Bridge Task Force” report was presented to then Governor Lawton Chiles in 1997, outlining recommendations for the old Flagler Railroad bridges as a linear greenway. A similar report had been presented in 1938, to then Governor Fred Cone by the Road and Toll Authority, the State Forestry Department and the National Park Service outlining the creation of a linear park from Key Largo to Key West. In 1998, Clean Florida Keys rallied enough local support to prepare a Florida Keys Overseas Heritage Trail Conceptual plan published in January 1999, and a Florida Keys Overseas Heritage Trail Action plan published in November 1999. With a combination of local citizen support, the Rails To Trails, National Park Service, Greenways and Trails, Monroe County, the Florida Department of Environmental Protection, the Florida Department of Transportation and many other agencies, the Florida Keys Overseas Heritage Trail Master Plan was approved in August 2000. The coordination, planning, design, construction and management of the FKOHT, is a joint effort between the FDEP/ DRP, Monroe County, and the Florida Department of Transportation (FDOT). A Memorandum of Agreement was signed in August 2001, by the FDEP/DRP to maintain FDOT right-of-way where the trail will be designed and built. The FDEP/DRP maintains a 50-year lease on all 23 historical bridges from State of Florida, Division of State Lands.

Cost:

Total: \$40 Million

Project Development:

Land Acquisition: Not applicable at this time.

The FDOT work program and the FDEP/DRP implementation plan outline a progression of design and build projects that will construct the Florida Keys Overseas Heritage Trail over the next six years. Construction of the FKOHT is funded in the FDOT Five Year Work Program using enhancement funds for the segments between historic bridges. Additional funding is being sought to retrofit the remaining historical bridges and fishing platforms. The FDEP/DRP is certified by the FDOT to design and build projects under the Local Agency Program (LAP) using enhancement funds.

Project 3301 page 1 of 4

Operations and maintenance

There are currently 52 miles of existing bike path and 40 miles of new trail programmed for construction over the next eight years. There are twenty-three bridges comprising fourteen miles of trail in various stages of completion and funding. The City of Key West currently maintains an agreement with the Florida Park Service on maintenance of the existing sections throughout the City. The Village of Islamorada signed an agreement in 2003 and the City of Marathon is in the process of developing agreements for maintenance and trail planning. The FDEP/DRP has subcontracted the maintenance of the trail in accordance with the agreement established between FDOT and the FDEP/DRP and currently maintains 35 miles of trail and manages approximately 16 miles of bridges.

Project Schedule: See table below:

TABLE 1

Year/ Maintained By	Length	Trail MM	Status	Location
City	3.8	0 – 3.8	Existing	City of Key West
M	1.4	3.8 – 5.2	Existing	Stock Island
2003/4	6.0	5.2 – 11	New	Key Haven to Big Coppitt
M	4.0	11 – 15	Existing	Landscaping on Saddlebunch Keys
2003/4	1.7	15 – 16.7	New	Lower Sugarloaf Trail
2003/4	8.0	17 – 25	New	Lower Sugarloaf to Summerland (2 miles of existing bike path)
2004/5	4.0	25 – 29	New	Ramrod to Big Pine Key
M	2.0	29 – 31	Existing	Big Pine
	2.0	31 – 33	Study Area	Big Pine
2008/9	7.0	33 – 40	New	Spanish Harbor to 7-Mile Bridge (Seven Mile Bridge excluded)
M	11	47 – 58	Existing	City of Marathon
2003/4	7.0	58 - 65	New	Grassy Key to Long Key
M	3.0	65 – 68	Existing	Long Key Bike Path
2005/6	3.0	68 - 71	New	Layton to Channel 5
2005/6	3.0	71 – 74	New	Channel 5 to Annes Beach
Village	19	72 – 91	Various	Village of Islamorada
M	15	91 – 106	Existing	Key Largo
Total (excluding 7 mile bridge)	99 miles			

- M – Maintenance conducted by FDEP/DRP.
- 40 Miles of new trail (38 Miles of unpaved trail, minus the Summerland bike path)
- Miles of bridges
- Miles of unpaved impervious surface at 23 bridgehead locations.
- 28 Miles of new impervious surface projected

Detailed Project Budget Information (1000s)– See Table Below

	Thru 2003	2004	2005	2006	2007	2008	Balance to complete	Total
Federal								
State								
Tribal								
Local								
Other								
Total	7,117.7	7,438.2	2,499.9	5,811.8	1,036.1	2,875.5	12,000	40,000

Table 2

			2003
Big Coppitt Landscaping	MM 10-15	PE/CST	\$677,000.00
Big Coppitt Handrails	MM 10-15	PE/CST	\$ 423,000.00
Lower Sugarloaf Trail	MM 15-16.5	PE	\$130,000.00
Lower Sugarloaf Trail	MM 15 - 16.5	CST,CEI	\$670,000.00
Lower Sugarloaf Historic Bridge	MM 15.5	PE	\$73,000.00
Lower Sugarloaf Historic Bridge	MM 15.5	CST,CEI	\$213,000.00
Overseas Heritage Trail Safety Improvements	Various	PE	\$175,992.00
Overseas Heritage Trail Safety Improvements	Various	CST,CEI	\$ 879,957.00
Key Haven to Big Coppitt Trail	MM 5.2-11	PE	\$400,673.00
Key Haven to Big Coppitt Trail	MM 5.2-11	CST,CEI	\$2,871,495.00
Rockland Channel Bridge	MM 9.5	PE	\$112,518.00
Rockland Channel Bridge	MM 9.5	CST,CEI	\$400,000.00
Grassy Key to Long Key Trail	61.3 - 65.6	PE	\$91,047.00
Year Total			\$7,117,682.00
			2004
FKOHT Signage Master Plan	Various	PDE	\$25,000.00
Grassy Key to Long Key Trail	58 - 61.3	PE	\$273,079.00
Grassy Key to Long Key Trail	58 - 65.6	CST,CEI	\$1,213,968.00
Tom's Harbor Bridge Platforms	MM 60.5	PE	\$61,800.00
Tom's Harbor Bridge Platforms	MM 60.5	CST,CEI	\$560,000.00
Tom's Harbor Cut Bridge Platforms	MM 61.7	PE	\$54,075.00
Tom's Harbor Cut Bridge Platforms	MM 61.7	CST,CEI	\$560,000.00
Long Key Bridge	MM 63-65	PE	\$224,000.00
Lower Sugarloaf to Summerland Key Trail	MM 16.5-24.5	PE	\$491,000.00
Lower Sugarloaf to Summerland Key Trail	MM 16.5-24.5	CST,CEI	\$3,550,156.00
Environmental Consultant	Various	PDE	\$250,000.00
Ramrod Key to Big Pine Key Trail	MM 26.2-29.9	PE	\$175,081.00
Year Total			\$7,438,159.00

			2005
Park Channel Bridge	MM 18.7	PE	\$80,000.00
Park Channel Bridge	MM 18.7	CST,CEI	\$ 670,000.00
Rails to Trails Project	Various	PDE	\$25,000.00
Intus Property Key Largo Trailhead	MM 106	PE	\$25,000.00
Ramrod Key to Big Pine Key Trail	MM 26.2-29.9	CST,CEI	\$1,006,712.00
Channel 5 to Anne's Beach Trail	MM 71.8-73.5	PE	\$ 315,100.00
Layton to Channel 5 Trail	MM 68.4-70.8	PE	\$378,120.00
Year Total			\$ 2,499,932.00
			2006
Long Key Bridge	MM 63 - 65	CST,CEI	\$1,745,000.00
South Pine Channel Bridge	MM 29	PE	\$80,753.00
Channel 5 to Anne's Beach Trail	MM 71.8-73.5	CST,CEI	\$1,811,825.00
Layton to Channel 5 Trail	MM 68.4-70.8	CST,CEI	\$2,174,190.00
Year Total			\$ 5,811,768.00
			2007
South Pine Channel Bridge	MM	CST,CEI	\$600,000.00
Spanish Harbor to Seven-Mile Bridge Trail	MM33.3-40.5	PE	\$436,128.00
Year Total			\$1,036,128.00
			2008
Spanish Harbor to Seven-Mile Bridge Trail	MM33.3-40.5	CST,CEI	\$2,717,604.00
Ohio-Missouri Historic Bridge	MM39.1	PE	\$157,882.00
Year Total			\$2,875,486.00
			2009
Ohio-Missouri Historic Bridge	MM39.1	CST,CEI	\$1,210,246.00
Year Total			\$1,210,246.00

Hyperlink: <http://www.dep.state.fl.us/gwt/>

Contact: Samantha Browne

Program Name: Brownfields
Project Name: Eastward Ho! Brownfields Partnership
Project ID: 3400
Lead Agency: South Florida Regional Planning Council
Authority:

Strategic Plan Goal(s) Addressed: Goal 3.A.4

Measurable Output(s):

Project Synopsis: This partnership is a collaboration of local, state, regional and federal agencies with private sector, non-profit and community organizations targeting the cleanup and sustainable reuse of contaminated and abandoned/underused urban sites. The partnership has been designated a National Brownfields Showcase Community, one of 28 communities throughout the United States. This designation brings increased financial attention and resources for Brownfields work in south Florida. The target area is the portion of the Eastward Ho! corridor in Miami-Dade, Broward and Palm Beach Counties.

Federal/state/local partnership summits are held to network ideas and review local case studies. Stakeholder workshops are conducted to inform and link key players in revitalization projects. Constructive advice and additional project funding assistance are frequent outcomes of the summits. Establishment of county and city Brownfields Task Forces are encouraged to create and empower local focus on Brownfields issues. Design charrettes are conducted to consolidate local vision of future growth goals. Assistance in clarifying contamination issues at abandoned or underused properties is given to help expedite reuse considerations. The Eastward Ho! Brownfields Cleanup Revolving Loan Fund has been established to assist with site-specific cleanup activities.

The goal of this project is to facilitate discussion among the many stakeholders in formulating future growth visions and implementation that accommodates community needs while being compatible with south Florida ecosystem restoration and preservation.

Cost

Total (estimated)	TBD
Project Development	N/A
Land Acquisition	\$0
Implementation	N/A
Operations and maintenance	\$0

Project Schedule:

Start Date:	1998
Finish Date:	2010

Detailed Project Budget Information (1000s)

	Thru 1999	2000	2001	2002	2003	2004	Balance to complete	Total
Federal								
EPA	2,500	790	1,050	714	771	742		
HUD	7,150	300			8,300			
Others	624				30			
State	1.5 M	312						
Tribal								
Local	23	28	15	15	30	15		
Other *		2.5			39,100			
Total	11,800	1,400	1,065	729	48,231	757		TBD

* Private party contributions

Hyperlink:N/A

Contact: Terry Manning, SFRPC

Program Name: Outreach
Project Name: South Florida Ecosystem Restoration Earth Team
Project ID: 3500
Lead Agency: USDA-NRCS
Authority: Public Law 46
Funding Source:

Strategic Plan Goal(s) Addressed: 3.A.5

Measurable Output(s): Measured by the training of 1000+ volunteers to provide community based education focusing on the conservation of Natural Resources and the Ecosystem Restoration of South Florida (Train 100 trainers per year and educate 1, 000 people per year)

Project Synopsis: The Natural Resources Conservation Service would provide leadership in a partnership effort to train 1,000 Earth Team Volunteers to help people learn about and participate in the South Florida Ecosystem Restoration Project and to conserve, maintain, and improve our Natural Resources and Environment. The USDA-NRCS established the Earth Team to provide an effective volunteer workforce within the USDA-NRCS to help people conserve, improve, and sustain the Earth's resources and its environment.

Cost:
 Total: \$ 1,550,000.00
 Project Development:
 Land Acquisition:
 Implementation:
 Operations and maintenance:

Project Schedule:
 Start Date: 2004
 Finish Date: Ongoing

Detailed Project Budget Information (1000s)

	2004	2005	2006	2007	Balance to complete	Total
Federal	\$150	\$150	\$150	\$150	\$900	\$1550
State						
Tribal						
Local						
Other						
Total	\$150	\$150	\$150	\$150	\$900	\$1,550

Hyperlink: N/A
Contact: Thaddeus Hamilton, 954-792-1984 (USDA – NRCS)

Program Name: Nont Point Source Pollution
Project Name: South Florida Ecosystem Restoration Non Point Source Pollution and Disease Prevention Project
Project ID: 3501
Lead Agency: Broward Soil and Water Conservation District and The South Florida Ecosystem Restoration Council in partnership with U.S. Dept. of Agriculture - Natural Resources Conservation Service
Authority: Public Law 46
Funding Source:

Strategic Plan Goal(s) Addressed: 3.A.5

Measurable Output(s): To establish a South Florida Ecosystem Restoration Non Point Source Pollution and Disease Prevention Center. The Center will: improve the quality of storm water discharge from the C-11 Basin to the Everglades protection area; construct a permanent facility to conduct classes, seminars, field trips, and educational projects; grow pollution remediation Phytoremediation type trees (1,000); conduct outreach and related volunteer and volunteer training activities and integrate Phytoremediation type trees into reforestation and Brownfield's type projects; coordinate Urban and Population Health initiative with Environmental Justice and Ecosystem Education ; deploy urban health and environmental justice initiatives to initiate efforts toward the further elimination of non point source pollution; utilizing economic empowerment and community-based employment models.

Project Synopsis: Broward Soil and Water Conservation District (BSWCD) and the South Florida Ecosystem Restoration Council (SFERC) assisted by the United States Department of Agriculture – Natural Resources Conservation Service (USDA-NRCS) provide leadership in a partnership effort to establish the South Florida Ecosystem Restoration Non Point Source Pollution and Disease Prevention Project. The coordination of this project will provide Phytoremediation and Reforestation tree projects; enhance neighborhood watershed silviculture and agro-forestry projects; reduce wind and water erosion; reduce pollution Load Reduction; grow Phytoremediation trees and plants; promote live and/or distance learning classes and seminars, economic empowerment workshops, community-based reverse facilitation initiatives and educational field trips designed and promoted to enhance social wellbeing encompassed in both Urban Health and Environmental Justice programs designed to help eliminate Non Point Source Pollution.

Cost:
 Total: \$ 15,000,000
 Project Development:
 Land Acquisition:
 Implementation:
 Operations and maintenance:

Project Schedule:
 Start Date: 2004
 Finish Date: Ongoing

Detailed Project Budget Information (1000s)

	2004	2005	2006	2007	Balance to complete	Total
Federal						
State						
Tribal						
Local						
Other						
Total						15,000

Hyperlink: N/A
Contact: Russell M. Setti, 954-792-1984 (BSWCD)

Program Name: Flood Protection
Project Name: C-4 Flood Mitigation Projects
Project ID: 3600
Lead Agency: South Florida Water Management District
Authority: FEMA/DCA
Funding Source:

Strategic Plan Goal(s) Addressed: 3.B.1

Measurable Output(s): Improve conveyance and level of service protection in the C-4 Basin

Project Synopsis

The following projects are complete:

1. S-25B Forward Pump Station
2. S-26 Forward Pump Station
3. C-4 Phase 1 Impoundment (G-420 & G-421)
4. C-4 Phase 2 Impoundment (G-422)
5. Sweetwater Linear Berm

The following projects are to be completed in the near future:

1. S-25B Conveyance Improvements
2. Flagler to Palmetto Conveyance Improvements
3. Belen Conveyance Improvements
4. Sweetwater Phase 3 Berm
5. Belen Berm
6. City of Sweetwater Fence

The S-25B Conveyance Improvements consists of excavating approximately 30,000 cubic yards of spoil material from the C-4 Canal from the S-25B Structure to the Miami River. The work is currently being permitted.

The Flagler to Palmetto Conveyance Improvements consists of excavating approximately 15,000 cubic yards of spoil material. This project is currently being permitted.

The Belen Conveyance Improvement project involves the selective dredging of the C-4 canal to improve conveyance capacity at specific locations including 137th Ave to the Turnpike. The project is currently being permitted.

Sweetwater Berm. This work involves the construction of an earthen berm along the north side of the C-4 Canal within the city limits of Sweetwater. The north berm will be raised from Elevation 6 to 7.0 to Elevation 9.0. This will prevent canal overflows into the city during high canal stages and allow for a pumping system being implemented by the city to provide flood protection. This project is completed from the Turnpike to N.W. 107th Ave. The District is currently evaluating extending the berm to NW 92nd Ave.

Cost:

Total	\$ 11,900,000
Project Development	\$ 250,000
Land Acquisition	\$ 600,000
Implementation	\$ 11,050,000
Operations and maintenance	\$ TBD

Project Schedule:

Start Date: January 2005
 Finish Date: January 2008

	2005	2006	2007	2008					
Planning & Design	XX								
Real Estate	X	XX							
Construction		X	XXXX	X					

Detailed Project Budget Information (\$1000)

	Exp Thru 2005	2006	2007				Balance to complete	Total
Federal	50	400	400					850
SFWMD	0	0	0					
State	0	0	0					
Total	50	400	400					850

Hyperlink:N/A

Contact: John Leslie (561) 682-6289

Program Name: Water Supply Planning
Project Name: Kissimmee Basin Water Supply Plan (*KB Plan*)
Project ID: 3700
Lead Agency: South Florida Water Management District
Authority: Chapter 373, Florida Statutes
Funding Source:

Strategic Plan Goal(s) Addressed: 3.C.1

Measurable Output(s): 72.0 MGD Water Made Available by 2009

Project Synopsis: Significant water supply planning and development projects were initiated with the completion of the *Kissimmee Basin (KB) Plan* (SFWMD 2000). The *KB Plan* identified fourteen recommendations to develop facilities to provide alternative sources of water for this region. The following seven water source options were recognized to address key regional issues for this planning area that are addressed in both the *KB Plan* and in the 2005 *South Florida Environmental Report, Volume II; Five-Year Water Resources Development Work Program*:

- Minimize Floridan Aquifer Drawdown through Reduction of Demands
- Minimize Floridan Aquifer Drawdown through Reduction of Demands
- Optimize Use of the Floridan Aquifer and Develop Alternative Sources
- Develop Alternative Water Resources
- Develop a Water Management Plan for the Lake Istokpoga-Indian Prairie Basin
- Coordination among Water Management Districts
- Ensure Consistency between Planning and Water Use Permitting

The *KB Plan* updated will be completed in the summer of 2006.

Cost:

Total	\$4,615,000
Project Development	\$477,000
Land Acquisition	
Implementation	
Operations and maintenance	

	2005	2006	2007	2008	2009
Planning & Design					
Real Estate					
Construction					

Detailed Project Budget Information (\$1000)

	2005	2006	2007	2008	2009	Total
Federal						
SFWMD	\$815	\$800	\$1000	\$1000	\$1000	\$4,615
Total	\$815	\$800	\$1000	\$1000	\$1000	\$4,615

Total subject to update of the *KB Plan* in 2006.

Hyperlink: N/A

Point of Contact: Chris Sweazy (407) 858-6100

Program Name: Water Supply Planning
Project Name: Lower East Coast Regional Water Supply Plan (*LEC Plan*)
Project ID: 3701
Lead Agency: South Florida Water Management District
Authority: Chapter 373, Florida Statutes
Funding Source:

Strategic Plan Goal(s) Addressed: 3.C.1

Measurable Output(s): 161.30 MGD Water Made Available by FY 2009

Project Synopsis: Significant water supply planning and development projects were initiated with the completion of the *Lower East Coast (LEC) Plan* (SFWMD 2000). The *LEC Plan* identified forty-six recommendations to develop facilities to provide alternative sources of water for this region. The following eight categories were recognized to address key regional issues in this planning area that are addressed in both the *LEC Plan* and in the *2005 South Florida Environmental Report, Volume II, Chapter 4: Five-Year Water Resource Development Work Program*.

- Ongoing Projects from the LEC Interim Plan
- Other Federal State or SFWMD Projects
- Comprehensive Everglades Restoration Plan Projects
- Recommendations to the CERP from the LEC Regional Water Supply Plan
- Recommendations to the CERP from the Caloosahatchee Water Management Plan
- Operational Recommendations
- Consumptive Use Permitting and Resource Protection Projects
- Other Water Resource Projects

The LEC Plan will be updated in 2006.

Cost:

Total: \$10,227,000(FY 2005 – 2009)
 Project Development: \$10,227,000
 Land Acquisition:
 Implementation:
 Operations and maintenance:

Project Schedule:

Start Date: 2005
 Finish Date: 2009

	2005	2006	2007	2008	2009
Planning & Design					
Real Estate					
Construction					

Detailed Project Budget Information (\$1000)

	2005	2006	2007	2008	2009	Total
Federal						
SFWMD	\$732	\$2,410	\$2,411	\$2,412	\$2,262	\$10,227*
Total	\$732	\$2,410	\$2,411	\$2,412	\$2,262	\$10,227*

The *2005 South Florida Environmental Report, Volume II, Chapter 4: Five-Year Water Resource Development Work Program*.

Total subject to update of *LEC Plan* in 2006.

Hyperlink: [Barbara Powell, LEC Plan Manager](#)

Contact: Barbara Powell (561) 682-2336

Program Name: Water Supply Planning
Project Name: Lower West Coast Water Supply Plan (*LWC Plan*)
Project ID: 3702
Lead Agency: South Florida Water Management District
Authority: Chapter 373, Florida Statutes
Funding Source:

Strategic Plan Goal(s) Addressed: 3.C.1

Measurable Output(s): 185.70 MGD Water Made Available by 2009

Project Synopsis: Significant water supply planning and development projects were initiated with the completion of the *Lower West Coast (LWC) Plan* (SFWMD 2000). The *LWC Plan* identified twenty-nine recommendations to develop facilities to provide alternative sources of water for this region. The following eight water source options were recognized to address key regional issues in this planning area that are addressed in both the *LWC Plan* and in the *2005 South Florida Environmental Report, Volume II, Chapter 4: Five-Year Water Resource Development Work Program*.

- Conservation
- Ground Water Resources
- Reclaimed Water
- Regional Irrigation Systems
- Seawater
- Storage
- Surface Water
- Related Implementation Strategies

The LWC Plan will be updated in 2006.

Cost:

Total: \$8,792,000(FY 2005 - 2009)
 Project Development: \$8,792,000
 Land Acquisition:
 Implementation:
 Operations and maintenance:

Project Schedule:

Start Date: 2005
 Finish Date: 2009

	2005	2006	2007	2008	2009
Planning & Design					
Real Estate					
Construction					

Detailed Project Budget Information (\$1000)

	2005	2006	2007	2008	2009	Total
Federal						
SFWMD	\$1,582	\$1,090	\$1,690	\$2,340	\$2,090	\$8,792*
Total	\$1,582	\$1,090	\$1,690	\$2,340	\$2,090	\$8,792*

The *2005 South Florida Environmental Report, Volume II, Chapter 4: Five-Year Water Resource Development Work Program*.

Total subject to update of *LWC Plan* in 2006.

Contact: Linda Hoppes (561) 682-2213

Program Name: Water Supply Planning
Project Name: Upper East Coast Regional Water Supply Plan (*UEC Plan*)
Project ID: 3703
Lead Agency: South Florida Water Management District
Authority: Chapter 373, Florida Statutes
Funding Source:

Strategic Plan Goal(s) Addressed: 3.C.1

Measurable Output(s): 64.85 MGD Water Made Available by FY2009

Project Synopsis: Significant water supply planning and development projects were initiated with the completion of the *Upper East Coast (UEC) Plan* (SFWMD 2004). The *UEC Plan* identified twenty-six recommendations to develop facilities to provide alternative sources of water for this region. The following seven categories were recognized to address key regional issues in this planning area that are addressed in both the *UEC Plan* and in the *2005 South Florida Environmental Report, Volume II, Chapter 4: Five-Year Water Resources Development Work Program*:

- Ongoing Projects from the UEC Plan
- Other Federal State or SFWMD Projects
- Comprehensive Everglades Restoration Plan Projects
- Recommendations to the CERP from the UEC Regional Water Supply Plan
- Operational Recommendations
- Consumptive Use Permitting and Resource Protection Projects
- Other Water Resource Projects

The UEC Plan was updated in 2004 and will be amended in 2006.

Cost:

Total: \$3,731,000(FY 2005 – 2009)
 Project Development: \$3,731,000
 Implementation:
 Operations and maintenance:

Project Schedule:

Start Date: 2005
 Finish Date: 2009

	2005	2006	2007	2008	2009
Planning & Design					
Real Estate					
Construction					

Detailed Project Budget Information (\$1000)

	2005	2006	2007	2008	2009	Total
Federal						
SFWMD	\$1,024	\$1,067	\$1,190	\$225	\$225	\$3,731*
Total	\$1,024	\$1,067	\$1,190	\$225	\$225	\$3,731*

* *The 2005 South Florida Environmental Report, Volume II, Chapter 4: Five-Year Water Resource Development Work Program.*

Total subject to amendment of *UEC Plan* in 2006.

Hyperlink: [Jim Jackson, Senior Supervising Planner](#)

Contact: Jim Jackson (561) 682-6334

Program Name: Infrastructure
Project Name: C&SF: CERP - South Miami-Dade County Reuse (BBB)
Project ID: 3800 (CERP Project # WBS 98)
Lead Agency: USACE / Miami-Dade County
Authority: Not authorized
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: 3.C.2

Measurable Output(s): 131 MGD Advanced WWTP

Project Synopsis: This feature includes a plant expansion to produce superior, advanced treatment of wastewater from the existing South District Wastewater Treatment Plant located north of the C-1 Canal in Miami-Dade County. The initial design of this feature assumed that the plant would have a capacity of 131 million gallons per day. More detailed analyses will be required to determine the quality and quantity of water needed to meet the ecological goals and objectives of Biscayne Bay.

Cost: \$419,858,000

Project Schedule:

Project is scheduled to complete construction in Band 4 (2020 – 2025).

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
PIR/Plans & Specs										
Real Estate										
Construction										

Detailed Project Budget Information (\$1000)

	2013	2014	2015	2016	2017	2018	Balance to Complete 2019-2022	Total
USACE	4,199	4,199	4,199	31,489	31,489	31,489	102,865	209,929
M-D Co	4,199	4,199	4,199	31,489	31,489	31,489	102,865	209,929
Total	8,397	8,397	8,397	62,979	62,979	62,979	205,730	419,858

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_98_south_miami.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP - West Miami-Dade County Reuse (HHH)
Project ID: 3801(CERP Project # WBS 97)
Lead Agency: USACE / Miami Dade County
Authority: Not authorized
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: 3.C.2

Measurable Output(s): 100 mgd Advanced WWTP

Project Synopsis: This feature includes a wastewater treatment plant expansion to produce superior, advanced treatment of wastewater from a future West Miami-Dade Wastewater Treatment Plant to be located in the Bird Drive Basin in Miami-Dade County. The initial design assumed a potential discharge volume of 100 million gallons per day from the wastewater treatment plant. The final configuration of these facilities will be determined through more detailed planning and design. Superior water quality treatment features will be based on appropriate pollution load reduction targets necessary to protect downstream receiving surface waters.

Cost: \$505,325,000

Project Schedule:

Project is scheduled to complete construction in Band 4 (2020 – 2025).

	2014	2015	2016	2017	2018	2019	2020	2021	2022
PIR/Plans & Specs									
Real Estate									
Construction									

Detailed Project Budget Information (\$1000)

	2014	2015	2016	2017	2018	Balance to Complete 2019-2022	Total
USACE	10,107	25,266	25,266	37,899	37,899	116,225	252,663
M-D Co	10,106	25,266	25,266	37,899	37,899	116,225	252,662
Total	20,213	50,533	50,533	75,799	75,799	232,450	505,325

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_97_west_miami.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Budget and schedule information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Infrastructure
Project Name: C&SF: CERP - Wastewater Reuse Technology – Pilot Project (HHH)(BBB)(OPE)
Project ID: 3802(CERP Project # WBS 37)
Lead Agency: USACE / SFWMD
Authority: WRDA 2000 (pilot project)
Funding Source: Corps/State

Strategic Plan Goal(s) Addressed: Primary: 3.C.2

Measurable Output(s): Report and pilot facility

Project Synopsis: The purpose of this project is to determine the ecological effects of using superior, advanced treated reclaimed water to replace and augment freshwater flows to Biscayne Bay and the Bird Drive Basin, and to determine the level of superior, advanced treatment required to prevent degradation of freshwater and estuarine wetlands and Biscayne Bay. The City of West Palm Beach is constructing a facility at the East Central Regional Wastewater Treatment Facility using advanced and superior wastewater treatment processes to remove nitrogen and phosphorous. After treatment, the reclaimed water would be used to restore 1,500 acres of wetland and to recharge the City’s adjacent wellfield.

Cost: \$27,700,000

Project Schedule:

Project is scheduled to complete construction in Band 3 (2015-2020).

	2002-2004	2010	2011	2012	2013	2014	2015	2016	2017-2021
PPDR/Plans & Specs									
Real Estate									
Construction									
Monitoring									

Detailed Project Budget Information (\$1000)

	Thru 2004	2010	2011	2012	2013	2014	Balance to Complete 2015-2021	Total
USACE	1,147	254	254	254	3,176	1,270	7,495	13,850
SFWMD	625	265	265	265	3,306	1,323	7,803	13,850
Total	1,772	519	519	519	6,482	2,593	15,298	27,700

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_37_wastewater_pilot.cfm

Contact: Kim Brooks-Hall, Chief South Florida Restoration Branch, USACE
(904) 232-3155, Kimberly.Brooks-Hall@saj02.usace.army.mil

Source: Schedule and budget information based on the *Central and Southern Florida Project Comprehensive Everglades Restoration Plan 2005 Report to Congress* and the *Master Implementation Sequencing Plan (MISP)*.

Program Name: Alternative Water Supply
Project Name: Lower West Coast Regional Irrigation Distribution System Master Plan Study
Project ID: 3803
Lead Agency: SFWMD
Authority: Chapter 373.0831 Florida Statutes
Funding Source:

Strategic Plan Goal(s) Addressed: 3.C.2

Measurable Output(s): Study

Project Synopsis: The construction and operation of a regional irrigation distribution system (RIDS) will enable water to be transferred from areas of surplus to areas of deficit to fulfill urban irrigation needs. This system could conserve the fresh ground water sources, while maximizing the use of reclaimed water that would have otherwise been discharged to surface water or deep well injected and lost from the inventory. Storage, primarily through ASR, is a key component to bridge the gap between the seasonal and geographic relationships of available water supplies and demands. The RIDS makes irrigation water available for local supply entities/utilities to withdraw from for distribution to meet their individual needs. The Lower West Coast Regional Irrigation Distribution System Master Plan Study was **completed in November 2002**.

The Master Plan recommended a sub-regional study which was then completed in 2004. The later study recommended the Regional Irrigation Distribution System (RIDS) Implementation which began in 2005 and it is expected to be completed in 2020. However the RIDS implementation is now managed by the Alternative Water Supply (AWS) Program. This study is conducted as part of the Lower West Coast Water Supply Plan.

Cost:

Total: \$3,300,000 (FY 2004 - 2008)
 Project Development: \$3,300,000
 Land Acquisition:
 Implementation:
 Operations and maintenance:

Project Schedule:

Start Date: 2002
 Finish Date: 2002 - COMPLETE

	2002	2003	2004	2005	2006
Planning & Design					
Real Estate					
Construction					

Detailed Project Budget Information (\$1000)

	2004	2005	2006	2007	2008	Total
Federal						
SFWMD	\$200	\$300	\$300	\$1,000	\$1,500	\$3,300*
Total	\$200	\$300	\$300	\$1,000	\$1,500	\$3,300*

* The Five-Year Water Resource Development Work Program, Fiscal Year 2004-2008

Hyperlink: N/A

Contact: Nestor Garrido (561) 682-6908

Program Name: Alternative Water Supply
Project Name: Northern Palm Beach County and Southern Martin County Reclaimed Water Master Plan
Project ID: 3804
Lead Agency: SFWMD
Authority: Chapter 373.0831 Florida Statutes
Funding Source:

Strategic Plan Goal(s) Addressed: 3.C.2

Measurable Output(s): Study

Project Synopsis: In FY 2002, the SFWMD conducted a master plan study of the feasibility of construction and operation of a reclaimed water system for northern Palm Beach County. This study is conducted as part of the *Lower East Coast Regional Water Supply Plan*. The nine-month study included the quantification of existing and future (2020) irrigation demands in the study area, quantifying availability of local sources, and determining the unmet needs. The study evaluated different treatment and transmission options, institutional frameworks, and funding options. Local entities contributed \$55,000 towards this project. The study was completed and it was determined that the project was not economically feasible.

Cost:

Total: \$140,000 (FY 2002)
 Project Development: \$140,000
 Land Acquisition:
 Implementation:
 Operations and maintenance:

Project Schedule:

Start Date 2002
 Finish Date 2002 - **COMPLETE**

Note: The North Palm Beach Feasibility Study concluded that the project is not feasible at this time.

	2002	2003	2004	2005	2006
Planning & Design					
Real Estate					
Construction					

Detailed Project Budget Information (\$1000)

	2002	2003	2004	2005	2006	Total
Federal						
SFWMD	\$140					\$140*
Total	\$140					\$140*

*The total cost for this project is included in the total cost for the *Lower East Coast Regional Water Supply Plan* and the *Five-Year Water Resource Development Work Program, Fiscal Year 2002-2006*

Hyperlink: N/A

Point of Contact: Nestor Garrido (561) 682-6908

Program Name: Alternative Water Supply
Project Name: Orlando/Kissimmee Area Regional Reclaimed Water Optimization Plan
Project ID: 3805
Lead Agency: SFWMD
Authority: Chapter 373.083, Florida Statutes
Funding Source:

Strategic Plan Goal(s) Addressed: 3.C.2

Measurable Output(s): Study

Project Synopsis: During FY 2001, the SFWMD initiated four projects towards developing a regional reclaimed water optimization plan. These projects included installation of climatic and shallow aquifer monitoring stations, development of the Region Reuse Plan and Phase I of the Reclaimed Water Injection Pilot Study. Activities proposed for FY 2004 include a continuation of the climate and ground water level monitoring and the drafting/workshop process for the Regional Reclaimed Water Plan development. Phase II of the Reclaimed Water Injection Pilot Study was not continued due to lack of local support. In addition, the District supported a local reclaimed water project in Polk County. No new programs are proposed for FY 2004. These efforts are being conducted as a part of the Kissimmee Basin Water Supply Plan.

Cost:
 Total: \$130,000 (FY 2004 – 2005)
 Project Development: \$130,000
 Land Acquisition:
 Implementation:
 Operations and maintenance:

Project Schedule:
 Start Date: 2002
 Finish Date: 2004

	2002	2003	2004	2005	2006	2007
Planning & Design						
Real Estate						
Construction						

Detailed Project Budget Information (\$1000)

	2005	2006	2007	2008	2009	Total
Federal						
SFWMD	\$180	\$0	0	0	0	\$180
Total	\$180	\$0	0	0	0	\$180

*The total cost for this project is included in the total cost for the Kissimmee Basin Water Supply Plan and the projected budget was provided by the KB Project Manager, Chris Sweazy.

Hyperlink: N/A
Contact: Chris Sweazy (407) 858-6100

Program Name: Alternative Water Supply
Project Name: Alternative Water Supply Grant
Project ID: 3900
Lead Agency: SFWMD
Authority: Chapter 373.1961, Florida Statutes
Funding Source:

Strategic Plan Goal(s) Addressed: 3.C.3

Measurable Output(s): 172 MGD added to water supply system district-wide by end of FY06

Project Synopsis: SFWMD began a program of cooperative funding with local governments and other entities for the development of alternative water supply systems in 1986. Legislative changes in 2005 required the SFWMD to match from the FY2006 budget, activities advancing alternative water supply, in order to receive \$30 million in AWS funding for local government and other partners. Additionally, the SFWMD added \$6 million in funds for a total of \$36 million in available grant funds. Eighty projects were selected, and are slated to be complete by the end of FY06.

Cost:
 Total: \$TBD
 Project Development: \$36000000
 Land Acquisition:
 Implementation:
 Operations and maintenance:

Project Schedule:
 Start Date: 1996
 Finish Date: On-going/ annual grants

	1999	2000	2001	2002	2003	2004	2005	2006	2007
Planning & Design									
Real Estate									
Construction									

Detailed Project Budget Information (\$1000)

	Exp Thru 1999	2000	2001	2002	2003	2004	Balance to complete	Total
Federal								
SFWMD	\$27,950	\$4,100	\$600	\$3900	4,006	4500	\$36000	TBD
Total	\$27,950	\$4,100	\$600	\$3900	4006	4500	TBD	TBD

Hyperlink: N/A
Contact: Jane Bucca (561) 682-6791

Program Name: Agriculture
Project Name: BMP's for Agriculture
Project ID: 4101
Lead Agency: Natural Resources Conservation Service
Authority: Public Law 46
Funding Source:

Strategic Plan Goal(s) Addressed: Other

Measurable Output(s): Nutrient Load Reduction

Project Synopsis: This project provides for technical assistance to landowners and managers of agricultural lands. The goals of this project are to encourage the adoption and implementation of Best Management Practices (BMPs) that will provide for sustainable agriculture within the Everglades ecosystem that is both ecologically and economically sound. Comprehensive resource management plans are developed with the farmer/rancher to achieve their management objectives, while meeting federal, state, regional and local environmental quality criteria and standards (TMDLs).

Cost

Total: \$141,203,000
 Project Development:
 Land Acquisition:
 Implementation:
 Operations and maintenance: \$141,203,000

Project Schedule:

Start Date: 1997
 Finish Date: 2011

Detailed Project Budget Information (1000s)

	Through 2005	2006	2007	2008	Balance to Complete	Total
Federal	\$32,521	\$4,710	\$4,820	\$5,011	\$22,736	\$69,798
State	\$21,135	\$6,800	\$8,150	\$8,820	\$26,500	\$71,405
Tribal						
Local						
Other						
Total	\$53,656	\$11,510	\$12,970	\$13831	\$49,236	\$141,203

Hyperlink: N/A

Point of Contact: Edward Wright – 386-329-4116 (USDA – NRCS)

Program Name: Soils
Project Name: Monitoring of Organic Soils in the Everglades
Project ID: 4102
Lead Agency: Natural Resources Conservation Service
Authority: Public Law 46
Funding Source:

Strategic Plan Goal(s) Addressed: Other

Measurable Output(s): Resource Assessment

Project Synopsis: This project will produce an assessment of the amount of accretion and/or subsidence that has occurred on organic soils throughout the Everglades region. ARS and IFAS have initiated work within the Everglades Agricultural Area (EAA) based upon observations taken every 5-year from 1913 – 1978. The goal of this project is to expand this assessment to the entire Everglades ecosystem, in an effort to provide scientists and land managers a tool to ascertain the effects from hydrologic condition changes upon the organic soil resource.

Cost:
 Total: \$1,236,000
 Project Development:
 Land Acquisition:
 Implementation:
 Operations and maintenance: \$1,236,000

Project Schedule:
 Start Date: 1998
 Finish Date: 2017

Detailed Project Budget Information (\$1000)

	Thru 1999	2004	2005	2006	2007	2008	Balance to complete	Total
Federal	\$25				\$100	\$100	\$1011	\$1,225
State	\$11							\$11
Tribal								
Local								
Other								
Total	\$36				\$100	\$100	\$1011	\$1,236

Hyperlink: N/A
Point of Contact: Warren Henderson 352-338-9535 (USDA – NRCS)

Program Name: Soil Survey
Project Name: Soil Survey Update for the Everglades Agricultural Area
Project ID: 4103
Lead Agency: Natural Resources Conservation Service
Authority: Public Law 46
Funding Source:

Strategic Plan Goal(s) Addressed: Other

Measurable Output(s): Acres Mapped

Project Synopsis: This project will produce an updated comprehensive soil survey of the Everglades Agricultural Area (EAA). The project is designed to produce a spatial representation of the soils on approximately 700,000 acres, and a detailed description of each soil's profile. The current soil survey is over 20 years old. Significant changes have occurred due to organic soil subsidence and changes in landscape features. This project will provide an effective conservation planning tool for on-farm decision making that will contribute to over-all ecosystem restoration efforts.

Cost:
 Total: \$1,500,000
 Project Development: \$1,500,000
 Land Acquisition:
 Implementation:
 Operations and maintenance:

Project Schedule:
 Start Date: 2004
 Finish Date: 2008

Detailed Project Budget Information (\$1000)

	2006	2007	2008	Balance to complete	Total
Federal				\$1,500	\$1,500
State					
Tribal					
Local					
Other					
Total					\$1,500

Hyperlink: N/A
Point of Contact: Warren Henderson 352-338-9535 (USDA – NRCS)

Program Name: Soil Survey

Project Name: Soil Survey for Everglades National Park, Big Cypress, National Preserve, and Water Conservation Areas

Project ID: 4104

Lead Agency: NRCS

Authority: PL-46

Funding Source:

Strategic Plan Goal(s) Addressed: Primary :Other

Measurable Output(s): Acres Mapped

Project Synopsis: This project will produce a comprehensive soil survey of Everglades National Park, Big Cypress National Preserve, and the Water Conservation Areas. The project is designed to produce a spatial representation of the soils on approximately 2,000,000 acres, and a detailed description of each soil's profile. Currently there is not a detailed soil survey available to land managers, modelers and planners. This project will provide an effective correlation/association tool for land managers, modelers and planners to identify, restore, and sustain natural ecological communities.

Cost:

Total:	\$5,600,000
Project Development:	\$5,600,000
Land Acquisition:	
Implementation:	
Operations and maintenance:	

Project Schedule:

Start Date:	2005
Finish Date:	2010

Detailed Project Budget Information (1000s)

	2005	2006	2007	2008	2009	2010	Balance to complete	Total
Federal			\$800	\$800	\$800	\$800	5,600	\$5,600
State								
Tribal								
Local								
Other								
Total								\$5,600

Hyperlink- N/A

Contact: Warren Henderson -352-338-9535 USDA - NRCS

COMPLETED PROJECTS

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Project name: Cayo Costa
Project ID: 2110
Lead Agency: FDEP
Authority: CARL Program

Strategic Plan Goal(s) Addressed: 2.A.1

Measurable Output(s): 1,954 Acres acquired

Project Synopsis: The project area, involving 1,954 acres, includes Cayo Costa and North Captiva, both part of a small chain of barrier islands that provide protection for Charlotte Harbor, one of Florida's most productive estuaries. The natural communities within the project are in excellent condition and have high species diversity; some may be unique to these islands. This project contains several archaeological and historical sites. Cayo Costa Island is subdivided into small lots and is threatened by rapid residential development. This project is completed.

Cost: Total: Project size 1,954. All acres acquired at a cost of \$28,337,346
 Project Development
 Land Acquisition:
 Implementation
 Operations and maintenance

Project Schedule:
 Start Date: 1980
 Finish Date: 2004

Detailed Project Budget Information (1000s)

	Thru 2004	2005	2006	2007	2008	Balance to complete	Total
Federal							
State	\$28,337						28,337
Tribal							
Local							
Other							
Total	\$28,337						28,337

Program Name: Restoration Program: Habitat and Species and Water Quality
Project Name: Corkscrew Regional Mitigation Bank Land Acquisition
Project ID: 2113
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: Primary: 2.A.1

Measurable Output(s): Target 633 Acres

Project Synopsis: The Corkscrew Regional Mitigation Bank is located in southern Lee County, along Corkscrew Road (SR 850). It is adjacent to Lee County’s Stairstep Mitigation Areas, which has been established to offset impacts associated with the Southwest Florida Regional Airport. The total project acreage is 633 acres. **This project has been completed.**

Cost: Total \$2,600,000
 Project Development N/A
 Land Acquisition \$1,159,040
 Implementation N/A
 Operations and Maintenance N/A

Project Schedule:
 Start Date: 1995
 Finish Date: 1999

Detailed Project Budget Information

	Through 1999	2000	2001	2002	2003	2004	Balance to Complete	Total
Federal								
State	2,600,000							2,600,000
Tribal								
Local								
Other								
Total	2,600,000							2,600,000

Contact: Wanda Caffie-Simpson, (561) 682-6445

Additional information available at www.sfwmd.gov under the heading “Major Projects”

Program Name: Restoration Program: Habitat and Species
Project Name: Dupuis Reserve Land Acquisition
Project ID: 2116
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: Primary: 2.A.1

Measurable Output(s): Target 21,875 Acres

Project Synopsis: The Dupuis Reserve encompasses 21, 875 acres in northwestern Palm Beach and southwestern Martin Counties. The property is interspersed with numerous ponds, wet prairies, cypress domes, pine flatwoods, and remnant Everglades marsh. Dupuis is actively managed by the District and the Florida Fish and Wildlife Conservation Commission. Numerous public use opportunities are available, including hiking, horseback riding, hunting, fishing, and bicycling. Total project acreage is 21,875 acres. **This project has been completed.**

Cost: Total \$23,016,601
 Project Development N/A
 Land Acquisition \$23,016,601
 Implementation N/A
 Operations and Maintenance N/A

Project Schedule:

Start Date: 1985
 Finish Date: 1986

Detailed Project Budget Information (\$1000)

	Through 1999	2000	2001	2002	2003	2004	Balance to Complete	Total
Federal								
State	23,016.601							23,016.601
Tribal								
Local								
Other								
Total	23,016.601							23,016.601

Point of Contact: Wanda Caffie-Simpson, (561) 682-6445

Additional information available at www.sfwmd.gov under the heading "Major Projects"

Program Name: Restoration Program: Hydrological Restoration, Habitat and Species
Project Name: Kissimmee Prairie Ecosystem
Project ID: 1305
Lead Agency: Florida Department of Environmental Protection/South Florida Water Management District
Authority: CARL/Save Our Rivers

Strategic Plan Goal(s) Addressed: 1.A.3 and 2.A.1

Measurable Output(s): 38,282 Acres Acquired

Project Synopsis: This project involves acquisition and restoration of wetland and dry prairie habitat in Okeechobee County. The SFWMD and FDEP purchased 38,282 acres of land in 1997 for conservation as the Kissimmee Prairie State Preserve. Restoration has been initiated on the Preserve as well as the adjacent 7,315-acre Ordway-Whittell Kissimmee Prairie Sanctuary owned and managed by the National Audubon Society. The project will restore 13,100 acres of wetlands that were over drained or over impounded by agricultural activities. In addition, the project will enhance another 2,625 acres of wetlands and 9,500 acres of associated dry prairie habitat. Restoration will be accomplished by removing 39.3 miles of ditches and dikes to return sheet flow across the land. Enhancement will include removal of unwanted or invasive vegetation from wetland and dry prairie habitats.

The purpose of the land acquisition project is to preserve the unique wetland and dry prairie habitats that were in agriculture and cattle land use and, using a five-year federal grant, restore and enhance these lands. Approximately 5,000 acres of the project hydraulically linked with the Kissimmee River will be reconnected, thereby restoring wetland habitat to regain historical biological diversity. The remaining 40,000 acres of the project in the project area contain extensive wetland habitats and excellent examples of the dry-prairie community type, which is recognized by the Florida Natural Areas Inventory as endangered at state and global levels. Because of the conversion of similar lands to citrus and improved pasture throughout central Florida, the Kissimmee Prairie Ecosystem, in combination with the adjacent Air Force's Avon Park Bombing Range and Audubon's Kissimmee Prairie Sanctuary, will form the largest region of dry prairie in public ownership in the State. Its preservation is the most important step in the recovery of the federally endangered Florida grasshopper sparrow. The endangered whooping crane, Everglades snail kite, and the woodstork utilize the habitats of the project area. Protection of these lands will also provide habitat for the following threatened species: southern bald eagle, Audubon's caracara, Florida scrub jay, and the eastern indigo snake. In addition, the project area contains habitat that supports over 800 species of plants and animals.

Cost:
 Total: Project size 38,282 acres.
 38,282 acres have been acquired at a cost of \$22 million

Project Development
 Land Acquisition:
 Implementation

Project completed

Project Schedule:
 Start Date: 1996
 Finish Date: 1997

Detailed Project Budget Information (1000s)

	Through 2003	2004	2005	2006	2007	2008	Balance to complete	Total
Federal								
State	\$22,000						0	\$22,000
Tribal								
Local								
Other								
Total	\$22,000						0	\$22,000

Hyperlink: N/A
Contact: N/A

Program Name: Restoration Program: Habitat and Species
Project Name: Lake Walk-in-Water Land Acquisition
Project ID: 2130
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: Primary: 2.A.1

Measurable Output(s): Target 4,009 Acres

Project Synopsis: The Lake Walk-in-Water project covers land between the northeast shore of lake Weohyakapka (Walk-in-Water) and SR60. The retirement communities of Nalcrest and Fedhaven border the property to the west and the community of Indian Lake Estates lies to the south. The project has extensive frontage along SR60 and Lake Water-in-Water and contains a large expanse of dry prairie, interspersed with small, isolated depression marshes a very large basin marsh along the highway, and large pine stands that have grown back since being logged in the 1920s. In 1999, the District and Polk County partnered to make the initial 4,000 acre purchase. The project is historically significant Town of Sumica. Polk County actively manages the property with financial assistance from the District. The total project acreage is 4,009 acres and all have been acquired.

Cost: Total SFWMD does not make cost projections on SOR projects
 Project Development N/A
 Land Acquisition SFWMD does not make cost projections on SOR projects
 Implementation N/A
 Operations and Maintenance N/A

Project Schedule:

Start Date: 1995
 Finish Date: 1998

Detailed Project Budget Information (1000s)

	Through 1999	2000	2001	2002	2003	2004	Balance to Complete	Total
Federal								
State	\$1,975							\$1,975
Tribal								
Local	\$1,975							\$1,975
Other								
Total	\$3,950							3,950

Additional information available at www.sfwmd.gov under the heading "Major Projects"

Program Name: Restoration Program: Habitat and Species
Project Name: Loxahatchee River Land Acquisition
Project ID: 2131
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: Restore, Preserve and Protect the Natural Habitat and Species

Measurable Output(s): Target 1,936 Acres

Project Synopsis: This 1,936-acre project connects to the southern end of Jonathan Dickinson State Park, and contains lands in Palm Beach and Martin Counties. The project includes the historic floodplain of the Northwest Fork of the Loxahatchee River, a National Wild and Scenic River.

The purpose of this project is to protect the outstanding natural and cultural values of Florida’s first federally designated Wild and Scenic River. Public ownership of this property will prevent direct disruption of surface and groundwater flows to the northwest Fork, and increase minimum flows to the Loxahatchee River, which will affect downstream movement of the saltwater wedge during dry conditions. A total of 1,914 acres are in public ownership; the District has acquired 1,547 acres and Palm Beach County owns 367 acres within the project area.

Project is completed.

Cost:	Total	\$13,074,703
	Project Development	N/A
	Land Acquisition	\$13,074,703
	Implementation	N/A
	Operations and Maintenance	N/A

Project Schedule:

Start Date:	1984
Finish Date:	2001

Detailed Project Budget Information (\$1000)

	Through 1999	2000	2001	2002	2003	2004	Balance to Complete	Total
Federal								
State	\$11,927.120							\$11,927.120
Tribal								
Local	\$1,147.583							\$1,147.583
Other								
Total	\$13,074.703							\$13,074.703

Additional information available at www.sfwmd.gov under the heading “Major Projects”

Program Name: Restoration Program: Habitat and Species
Project Name: Nicodemus Slough Land Acquisition
Project ID: 2137
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: Primary: 2.A.1

Measurable Output(s): Target 2,231 Acres

Project Synopsis: Nicodemus Slough consists of wet prairie, broadleaf marsh, and prairie hammock south of the Herbert Hoover Dike (LD-3) and west of State Road 78. Until recently, the construction of the Herbert Hoover Dike, coupled with the maintenance of lower stages in Lake Okeechobee, resulted in a shortened hydroperiod and general lowering of water levels in Nicodemus Slough. This in turn altered vegetative patterns on the property and allowed the spread of transition and upland species. This project consists of 2,231 acres and has been completed.

Cost: Total \$1,894,501
 Project Development N/A
 Land Acquisition \$1,894,501
 Implementation N/A
 Operations and Maintenance N/A

Project Schedule:

Start Date: 1981
 Finish Date: 1988

Detailed Project Budget Information (1000s)

	Through 1999	2000	2001	2002	2003	2004	Balance to Complete	Total
Federal								
State	\$1,894.5							\$1,894.5
Tribal								
Local								
Other								
Total	\$1,894.5							\$1,894.5

Point of Contact: Wanda Caffie-Simpson, (561) 682-6445

Additional information available at www.sfwmd.gov under the heading "Major Projects"

Program Name: Restoration Program: Habitat and Species
Project Name: South Fork St. Lucie River Land Acquisition
Project ID: 2153
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: Restore, Preserve and Protect the Natural Habitat and Species

Measurable Output(s): Target 184 Acres

Project Synopsis: This project includes 184 acres on the western shore of the upper South Fork St. Lucie River. The property begins approximately 0.75 miles south of State Road 76 and extends approximately 1.25 miles southward.

The purpose of this project is to protect the integrity of the river corridor. River water quality is best maintained when river corridor lands remain in their natural state and are restored and managed to enhance the natural community quality. Prescribed fire has successfully been used as the main restoration tool to improve the condition of degraded communities on this property. Responsibility for management of land is divided between the Department of Environmental Protection and Martin County.

Project is completed.

Cost:	Total	\$2,480,000
	Project Development	N/A
	Land Acquisition	\$2,480,000
	Implementation	N/A
	Operations and Maintenance	N/A

Project Schedule:

Start Date:	1995
Finish Date:	1996

Detailed Project Budget Information (1000s)

	Through 1999	2000	2001	2002	2003	2004	Balance to complete	Total*
Federal								
State	\$2,480						0	\$2,480
Tribal								
Local								
Other								
Total	\$2,480						0	\$2,480

Point of Contact: Wanda Caffie-Simpson, (561) 682-6445
 Additional information available at www.sfwmd.gov under the heading "Major Projects"

Program Name: Restoration Program: Habitat and Species
Project Name: Tibet-Butler Preserve Land Acquisition
Project ID: 2157
Lead Agency: South Florida Water Management District
Authority: Save Our Rivers (SOR)

Strategic Plan Goal(s) Addressed: Restore, Preserve and Protect the Natural habitat and Species

Measurable Output(s): Acres Acquired

Project Synopsis: The Preserve covers 439 acres along the southwest shore of Lake Tibet-Butler in Orange County. The vegetative communities include bay swamp, pine flatwoods, cypress swamp, and smaller areas of xeric oak and freshwater marsh. The Tibet-Butler Preserve site includes approximately 4,000 feet of shoreline on Lake Tibet. Orange County Parks and Recreation Department manages Tibet-Butler Preserve as an environmental education facility. **This project has been completed.**

Cost: Total \$3,601,900
 Project Development N/A
 Land Acquisition \$3,601,900
 Implementation N/A
 Operations and Maintenance N/A

Project Schedule:

Start Date: 1988
 Finish Date: 1999

Detailed Project Budget Information (1000s)

	Through 1999	2000	2001	2002	2003	2004	Balance to Complete	Total
Federal								
State	\$3,601.9							\$3,601.9
Tribal								
Local								
Other								
Total	\$3,601.9							\$3,601.9

Point of Contact: Wanda Caffie-Simpson, (561) 682-6445

Additional information available at www.sfwmd.gov under the heading "Major Projects"

Program Name: Infrastructure
Project Name: Critical Projects – East Coast Canal Structures (C-4)
Project ID: 1406
Lead Agency: USACE / SFWMD
Authority: WRDA 1996

Strategic Plan Goal(s) Addressed: Primary: Other

Measurable Output(s): Water control structures

Project Synopsis: This project calls for the construction of a gated water control structure (S-380) on the C-4 canal in Dade County, Florida. This structure will be located immediately southeast of the Pennsuco Wetlands. The purpose of the structure is to maintain stages to create and preserve wetlands as well as aquifer recharge. The construction for this project is complete.

Cost:
 Total \$3,683,000
 Project Development
 Land Acquisition (est. 2 ac)
 Implementation
 Operations and Maintenance

Project Schedule:

Start Date: 1999
 Finish Date: 2003

	1999	2000	2001	2002	2003
Planning & Design					
Real Estate					
Construction					

Detailed Project Budget Information (\$1000)

	Thru 2003	Total
USACE	1,841	\$1,841
SFWMD	1,842	\$1,842
Total	3,683	\$3,683

Hyperlink: <http://www.saj.usace.army.mil/projects/proj1.htm>
Contact: USACE

Program Name: Infrastructure
Program Name: Infrastructure
Project Name: C&SF: Indian River Lagoon Feasibility Study
Project ID: 1428
Lead Agency: USACE / SFWMD
Authority: WRDA 1996

Strategic Plan Goal(s) Addressed: Primary: Other

Measurable Output(s): Reports

Project Synopsis: The purpose of the study is to investigate making structural and operational modifications to the C&SF Project to improve the quality of the environment, improve protection of the aquifer, improve the integrity, capability, and conservation of urban and agricultural water supplies and other water related purposes. The product of this study is a regional plan for addressing the water resource problems and opportunities of the St. Lucie River and Estuary and Indian River Lagoon watersheds in Martin and St. Lucie Counties.

Note: The Indian River Lagoon South Feasibility Study was completed October 2002 and a project implementation report was completed in march 2004.

Cost:

Total	\$6,150,000
Project Development	\$6,150,000
Land Acquisition	
Implementation	

Operations and maintenance

Project Schedule:

Start Date:	1996
Finish Date:	2002

	1999	2000	2001	2002
Planning & Design				
Real Estate				
Construction				

Detailed Project Budget Information (\$1000)

	Thru 2002	Total
USACE	\$3,075	\$3,075
SFWMD	\$3,075	\$3,075
Total	\$6,150	\$6,150

Hyperlink: http://www.evergladesplan.org/pm/studies/irl_south.cfm

Program Name: Restoration Program: Water Quality, Habitat & Species
Project Name: Lake Okeechobee Sediment Removal Feasibility Study and Pilot Project
Project ID: 1708
Lead Agency: South Florida Water Management District
Authority: Chapter 373, Florida Statutes
Funding Source:

Strategic Plan Goal(s) Addressed : Other

Measurable Output(s): Recommendation Regarding Sediment Removal from Lake Okeechobee

Project Synopsis: The goal of this project was to analyze alternatives and determine the best method of sediment management to reduce internal phosphorus loading in Lake Okeechobee. The Feasibility Study addressed alternatives such as sediment removal, processing, disposal, chemical treatment, and/or sealing sediment to achieve the project goal. The goal of the Feasibility Study was achieved using an objective methodology that allowed for review and input by experts and stakeholders throughout the study process. A pilot test of a state-of-the-art sediment removal/treatment technology train was conducted in parallel with the Feasibility Study. The pilot test included sediment removal, de-watering, treatment, and a pilot water quality treatment system. The results of the pilot test were incorporated into the Feasibility Study.

The results for the feasibility study indicated that once the TMDL is met the annual frequency of algal blooms would decrease to below a 15% annual probability of a bloom occurrence (from a current annual likelihood of approximately 20%) by 2015 and 10% by 2028. Under this “no in-lake action” alternative, steady-state lake recovery conditions would be achieved approximately 35 years from the point that external loads are reduced to the inflow load of 140 metric tons. Dredging did not prove feasible, while chemical treatment might be of value under limited conditions.

Cost:

Total	\$955,069
Project Development	\$955,069
Land Acquisition	N/A
Implementation	N/A
Operations and Maintenance	N/A

Project Schedule:

Start Date: 6/1/00
 Finish Date: 6/1/03 (Completed 04/03)

Detailed Project Budget Information (\$1000)

	Throug h1999	2000	2001	2002	2003	2004	Balance to complete	Total
Federal								
State		0	287.5	280.8	386.7			955.1
Tribal								
Local								
Other								
Total			287.5	280.8	386.7			955.1

Hyperlink: N/A

Contact: Don Nuelle (561) 682-6743

Program Name: Restoration Program: Water Quality, Habitat & Species
Project Name: Lake Okeechobee Tributary Sediment Removal Pilot Project
Project ID: 1709
Lead Agency: South Florida Water Management District
Authority: Chapter 373, Florida Statutes
Funding Source: SFWMD Ad Valorem; EPA 319

Strategic Plan Goal(s) Addressed: Other

Measurable Output(s): Reduction in phosphorus loads from the Lettuce Creek drainage basin to Lake Okeechobee.

Project Synopsis: This project provides a direct comparison between two sediment removal technologies, namely, a continuous deflective separation (CDS) unit and a tributary sediment trap (TST) to determine if particulate phosphorus loading to Lake Okeechobee from Lettuce Creek drainage basin may be reduced using either of two pre-selected technologies. This project also examines the feasibility of sediment removal in a tributary as a method of reducing phosphorus loading to Lake Okeechobee. The effectiveness of the two technologies is being evaluated over a 12-month monitoring period. Initial monitoring results have indicated poor removal efficiencies for phosphorus by both units. Upon evaluation of the physical characteristics of the particles in the Lettuce Creek water, it was hypothesized that the settling velocities of the particles are too slow to allow capture of the particulate phosphorus within the relatively short residence times provided by the two units. Additional sediment management techniques are being investigated to examine if the effectiveness of these units can be improved by enhancing the settling velocity of the particles. The effectiveness of each system will be quantified using both a concentration-based and mass balance approach. The economic viability of each technology will be evaluated by comparing the present worth cost (20-yr) per kilogram of sediment and phosphorus removed by each system. If one of the tested sediment trap methods is found effective, landowners in the watershed will be encouraged to use it. The District will also use the technology wherever possible on District facilities.

Cost:

Total	\$440,000
Project Design (Phase I)	\$93,728
Construction, Installation and Calibration of Monitoring Instruments (Phase II)	\$210,940
Post Sediment Removal Monitoring and Measuring Effectiveness of the Project (Phase III)	\$135,332

Project Schedule:

Start Date: October 2000
 Completion Date: June 2004 **(Project completed; no funding requests at this time)**

	10/2000	08/2001	01/2002	04/2002	05/2002	06/2004
PROJECT DESIGN						
CONSTRUCTION AND INSTALLATION						
MONITORING AND PROJECT EVALUATION						

Detailed Project Budget Information (\$1000)

	2000-2001	2001-2002	2002-2003	2003-2004	Balance to complete	Total
Federal EPA	59.5	87.1	23.4			170
State SFWMD	71	136.6	42.4	20		270
Tribal						
Local						
Total	130.5	223.7	65.8	20		440

Hyperlink: N/A

Contact: Odi Villapando (561) 682-2936

Program Name: Infrastructure
Project Name: Critical Projects - Florida Keys Carrying Capacity
Project ID: 4100
Lead Agency: USACE / FDCA
Authority: WRDA 1996

Strategic Plan Goal(s) Addressed: Primary: Other

Measurable Output(s): Report

Project Synopsis: The carrying capacity study/analysis will develop information that will improve decision-making regarding development approvals and infrastructure investments, and its impact on the ecology and natural system in the Florida Keys and Florida Bay. The development of a decision making tool will provide a comprehensive basis for coordinating and strengthening water and land related planning efforts by local, state and federal agencies. The Study was completed March 2003.

Cost:

Total: \$6,000,000
 Project Development: \$6,000,000
 Land Acquisition:
 Implementation:
 Operations and maintenance:

Project Schedule:

Start Date: 1997
 Finish Date: 2003

	1997	1998	1999	2000	2001	2002	2003
Planning & Design							
Real Estate							
Construction							

Detailed Project Budget Information (\$1000)

	Thru 2003	Total
USACE	3,000	\$3,000
FDCA	3,000	\$3,000
Total	6,000	\$6,000

Hyperlink: <http://www.saj.usace.army.mil/projects/proj4.htm>
Contact: USACE