

Florida Department of Environmental Protection

**Florida Water Plan
2001 Annual Progress Report**

July 2002

Introduction

This report briefly summarizes recent progress made by Florida's water management agencies in addressing priority water resource issues. The performance measures in the table on the following pages are grouped around the four "areas of responsibility" of the state's water management program: water supply, flood protection and floodplain management, water quality, and natural systems. A fifth category of "common" measures contains measures that are common to more than one area of responsibility. These measures were cooperatively developed by the Department of Environmental Protection, the water management districts, and the Executive Office of the Governor. The measures in this report are in addition to performance measures routinely reported to the state legislature through the Office of Program Policy Analysis and Government Accountability.

This document is prepared annually to report the progress of the five water management districts and the Department of Environmental Protection in implementing their District Water Management Plans and the Florida Water Plan. The District plans are a component of the Florida Water Plan prepared every five years by the Department (pursuant to section 373.036, Florida Statutes). The data in the table come from the various Department reports and the District Water Management Plan Annual Progress Reports prepared each year by the water management districts. Readers interested in more detailed explanations of a specific District's progress should refer to that District's annual report. Addresses for each District are found on the last page.

Some notable observations in this year's progress reports:

- Statewide, 39% of available reclaimed water is reused.
- Between 85 and 100% of district flood control works are being maintained on schedule.
- Nearly 1.5 million acres have been acquired that provide flood protection benefits.
- Statewide, the DEP is monitoring 18% of streams, 68% of lakes, and 91% of estuaries for water quality.
- The DEP established a groundwater Status Network in 2000 that monitors approximately one-fourth of the state's groundwater resources each year. Based on two years of data, it is estimated that there is no basis for action or concern in 88% of the wells in an area equal to half the state.

- Progress on establishing minimum flows and levels (MFLs) for Florida's water bodies has improved in recent years, although two districts have not established any MFLs. Since 1992, the other three districts have established MFLs for a total of 132 lakes, 9 rivers and streams, 46 wetlands, 20 aquifers, and 2 estuaries.
- Environmental resource permitting requirements have resulted in more wetlands being created, enhanced, restored or preserved than are lost through permitting.
- The Districts have restored or are in the process of restoring nearly 100,000 acres of degraded water resources and related natural systems.
- Approximately 8.4 million acres in public ownership are being managed for conservation statewide.
- Environmental resource permit compliance inspections indicate that between 60% and 91% of facilities inspected are in compliance.

A continuing challenge in performance reporting is that the five water management districts and the DEP have not yet been able to fully conform their data collection and reporting so that all measures are comparable between agencies. This is noted in numerous places in the comparison table. The Department and the Districts will continue to work toward greater consistency, recognizing that the information systems were largely created independently and that conforming them may involve considerable difficulty and expense.

Additional copies of this report may be obtained by contacting the Office of Water Policy at 2600 Blair Stone Road, Mail Station 46, Tallahassee, Florida, 32399-2400, or by calling 850-488-0784. It may also be downloaded from the Office of Water Policy's Internet website at <http://www.dep.state.fl.us/water/waterpolicy/index.htm>.

**2001-2002 Summary of Water Management District Performance Measures
(Sources: November 2001 Progress Reports from Water Management Districts
and 2001 Data from the Department of Environmental Protection)**

July 2002

Water Management Performance Measure	NFWWMD	SRWMD	SJRWMD	SWFWMD	SFWMD	Florida
Water Supply Objective 1: Increase available water supplies and maximize overall water use efficiency to meet identified and existing future needs.						
WS1(a): Percentage of domestic wastewater reuse.	54% (2000 data)	70% (2000 data)	52% (2000 data)	52% (2000 data)	25%, from 9% in the Lower East Coast to 97% in the Kissimmee Basin (2000 data)	39% (2000 data)
WS1(b): Gross daily per capita water use (Public Supply) by district and water supply planning regions.	District average is 151 gpcd. Seven planning regions: range from 128-191. (1995 data).	District average is 156 gpcd. District has only one water supply planning region. (1995 data)	District average is 167 gpcd. District has only one water supply planning region. (1999 data).	District average is 137 gpcd. Planning region data not yet available. (1999 data).	District avg: 183 gpcd. Lower East Coast: 189. Lower West Coast: 188. Kissimmee Basin: 249. Upper East Coast: 165.	State average was 158 gpcd in 1995. USGS data for 2000 is expected later this year.
WS1(c): Within each water supply planning region: (1) the estimated amount of water supply to be made available through the water resource development component of the regional water supply plan; (2) percent of estimated amount under development; and (3) percent of estimated amount of water actually made available.	34 mgd to be made available; 91.7% under development; 18.5% made available.	No additional water supply planned or made available.	No additional water supply made available, 480 mgd to be made available by 2020. 14 projects initiated. Estimates of supply to be made available under development.	SWFWMD's water resource development projects involve activities such as monitoring and data collection that support water supply development but are not in themselves expected to significantly increase water supply.	See data below. ¹	N/A-WMD measure only.

¹ WS1(c)-SFWMD (as of October 2001): Lower East Coast: data not available. Lower West Coast: 541 mgd to be made available, 52% under development, 21% made available. Upper East Coast: 280 mgd to be made available, 51% under development, 14% made available. Kissimmee Basin: 390 mgd to be made available, 34% under development, 0% made available.

Water Management Performance Measure	NFWFMD	SRWMD	SJRWMD	SWFWMD	SFWMD	Florida
WS1(d): Within each water supply planning region, the estimated additional quantities of water supply made available through district water supply development assistance.	No data provided on amount of water to be made available. \$350,000 to Port St. Joe for water supply project.	No additional water supply planned or made available.	For FY 2000-2001, 0.027 mgd was made available. An additional 3.015 mgd is to be made available.	432 mgd to be made available. 215 mgd under development.	See data below. ²	N/A-WMD measure only.
Water Supply Objective 2: Prevent contamination of water supplies.						
WS2(a): Percentage of surface water supply sources for which water quality fully attains the designated use.	100% (1999 data)	N/A WMD has no surface water supply sources.	Two sources: one fully attains and one partially attains designated use (2000 data).	78.6 % meeting designated use (2000 data).	Used a different measure (good, fair, poor): 33% had good water quality; 59% had fair water quality; none had poor water quality. 8% were not evaluated (2000 data).	308.3 miles of streams were assessed for attainment of drinking water use. 100% attain some or all designated uses. 408,064 acres of lakes and reservoirs were assessed. 97% attain some or all designated uses. 3% are potentially impaired.
Flood Protection Objective 1: Minimize damage from flooding.						
FPI(a) Percentage of district works maintained on schedule.	N/A (No district works).	N/A (No district works).	100% being maintained on schedule.	75 structures, 100% being maintained on schedule (2001)	78,090 tasks scheduled, 66,180 completed. 85% of works maintained on schedule.	N/A-WMD measure only.

² WS1(d)-SFWMD (2001): Lower East Coast: 10.35 mgd, Lower West Coast: 38.74 mgd, Upper East Coast and Kissimmee Basin: 0.00 mgd, District total: 49.09 mgd

Water Management Performance Measure	NFWMD	SRWMD	SJRWMD	SWFWMD	SFWMD	Florida
Flood Protection Objective 2: Promote non-structural approaches to achieve flood protection and to protect and restore the natural features and functions of the 100-year floodplain.						
FP2(a): Number of acres identified for acquisition to minimize damage from flooding and the percentage of those acres acquired.	371,940 acres identified. 194,880 acres acquired. (52%)	114,743 acres acquired. Number of acres identified was not provided.	199,102 acres identified. 28,885 (14.5%) acquired (2001 data).	186,000 acres identified. Of that, 12,000, or about 6% was acquired as of October 2001. Cumulative acres acquired is 241,138.	1,073,535 acres identified. 886,868 acres acquired. (83%). (2001 data)	N/A-Except for the Save Our Rivers land acquisition program, other state land acquisition programs do not specifically identify land to be acquired for flood protection.
Water Quality Objective 1: Protect and improve water quality.						
WQ1(a): Percentage of water segments that fully meet, partially meet, and do not meet their designated uses.	84% fully meet. 12% partially meet. 4% does not meet. (2000 data)	No data provided.	70% fully meet. 24% partially meet. 6% do not meet. (2000 data)	Stream: 63% meet, 30% partially meet, 7% do not meet. Spring: 40% meet, 60% partially meet. Lake: 72% meet, 25% partially meet, 3% do not meet. Estuary: 50% meet, 45% partially meet, 5% do not meet (2000 data).	Stream: 43% meet, 52% partially meet, 5% do not meet. Lake: 3% meet, 97% partially meet. Estuary: 80% meet, 15% partially meet, 5% do not meet. (2000 data)	Measure stated differently. Data by water body type: Stream: 29% fully meet, 71% potentially do not meet. Lake: 20% fully meet, 80% potentially do not meet. Estuary: 69% fully meet, 31% potentially do not meet. (2002 305(b) Report)
WQ1(b): Number and percentage of SWIM water bodies with approved plans for which PLRGs (Pollutant Load Reduction Goals) have been established.	No PLRGs established.	No PLRGs established.	PLRGs established for 1 water body out of four with approved SWIM plans (25%).	10 SWIM water bodies, all have established PLRGs (100%).	PLRGs not addressed in WMD report. SFWMD developed and provided information on a new method of prioritizing water bodies for restoration	N/A-WMD measure only.
WQ1(c): Percentage of total stream miles and lake and estuary area in the district assessed for ambient water quality.	Stream: 10% Lake: 59% Estuary: 15%	Stream: 80% Lake: 15% Estuary: less than 1%	Stream: 50% Lake: 92.5% Estuary: 97.6% (2000 data)	Stream: 51% Lake: 87% Estuary: 90% (2000 data)	Stream: 92.2% Lake: 99.9 % Estuary: 99.9% (2000 data)	Stream: 18% Lake: 68% Estuary: 91% (2002 305(b) Report)

Water Management Performance Measure	NFWWMD	SRWMD	SJRWMD	SWFWMD	SFWMD	Florida
WQ Objective 2: Protect and improve ground water quality.						
WQ2(a): Improving, degrading, and stable trends in groundwater quality.	Data not available.	No data provided.	Data provided insufficient for trend analysis.	Data not available.	Data not available.	See footnote below. ³
WQ2(b): Improving, degrading, and stable trends in nitrate concentrations in springs.	Ponce de Leon Spring: 10-year degrading trend. Blue Spring: 10-year stable trend.	Data not provided.	2 springs improving. 12 springs stable. 5 springs degrading.	4 springs improving. 23 springs stable. 15 springs degrading.	N/A-No springs in SFWMD.	21 springs monitored, 15 stable, 5 degrading, and 1 improving. (1991-2000 data).
Natural Systems Objective 1: Maintain the integrity and functions of water resources and related natural systems.						
NS1(a): Number and percentage of established minimum flows and levels (MFLs) being maintained consistent with established recovery or prevention strategies.	No MFLs have been established.	No MFLs have been established.	52 of 55 systems are meeting their MFLs (95%).	41 Wetlands, 0% maintained. 15 Lakes, 0% maintained. 7 Aquifers, 100% maintained. 1 Stream, 0% maintained.	MFLs established for the Everglades, Lake Okeechobee, Biscayne Aquifer and Lower West Coast aquifer system, and the Caloosahatchee estuary. Data not yet available to assess if they are being maintained.	N/A-WMD measure only.

³ DEP established a groundwater Status Network in 2000. Approximately one fourth of the state is monitored each year. Based on two years of data, it is estimated that there is no basis for action or concern in 88% of the wells in an area equal to half the state. Trend data will begin to be available in 2004, with the commencement of the second round of sampling.

Water Management Performance Measure	NFWWMD	SRWMD	SJRWMD	SWFWMD	SFWMD	Florida
NS1(b): Number of MFLs, by waterbody type, established annually and cumulatively.	No MFLs have been established.	No MFLs have been established.	11 lakes established, 6 lakes reevaluated in 2001. Cumulative totals: 49 lakes, 2 streams, 2 wetlands, 0 springs, 14 lakes reevaluated. No breakdown for 50 MFLs established prior to 1998.	No MFLs established in 2001 prior to publication of WMD progress report. 23 lakes, 1 river, 1 spring, and 1 aquifer were anticipated to be established, bringing the cumulative totals to: 41 wetlands, 38 lakes, 2 streams, 8 aquifers, and 1 spring.	MFLs established for 1 wetland, 1 lake, 1 estuary, and 2 aquifers.	Statewide, MFLs have been established for 132 lakes, 9 rivers and streams, 46 wetlands, 20 aquifers, and 2 estuaries.
NS1(c): Percentage of MFLs established in accordance with previous year's schedule.	No MFLs have been established.	No MFLs have been established. Lower Suwannee due in 2003.	17 established out of 37 scheduled (46%). (2001)	93% of all anticipated MFLs were established by the end of 2001.	No MFLs were established on schedule in 2000 or 2001.	N/A-WMD measure only.
NS1(d): Total acres of wetlands or other surface water authorized by environmental resource permit to be impacted and acres required to be created, enhanced, restored and preserved.	No data provided. This WMD has no ERP responsibilities.	Impacted: 54.39 Created: 63.39 Enhanced: 1,348.53 Restored: 6.57 Preserved: 317.03	Impacted: 1,190.6 Created/restored: 480.8. Enhanced: 2,109.6. Preserved: 9,711.7 (upland acreage included). (FY 2000-2001 data)	Impacted: 193.4 Created/restored: 257.3. Enhanced: 439.5. Preserved: 2,805.8. (2001 data)	Impacted: 3,181. Preserved/enhanced: 15,805. Created/restored: 1,721. Upland compensation: 8,688.	Preserved: 332 Created: 2,341 Improved: 5,055 Temporarily disturbed: 8,027 Permanently destroyed: 2,097 (1999-2001 data)
Natural Systems Objective 2: Restore degraded water resources and related natural systems to a naturally functioning condition.						
NS2(a): Acres of invasive non-native plants in inventoried public waters.	610 Acres (FY 2000-2001)	No data provided.	Less than 3000 acres. (2000 data)	560 Acres (2000 data)	25,082 acres total. Hydrilla: 24,442 Water Hyacinth: 303 Water Lettuce: 132 Hygrophila: 205 (2001 data)	150,700 acres (2001)

Water Management Performance Measure	NFWMD	SRWMD	SJRWMD	SWFWMD	SFWMD	Florida
NS2(b): Acres of District lands infested with invasive nonnative upland plants by degree of land coverage.	358 acres infested out of 194,880 acres managed.	393 acres infested. No district acreage provided.	28,880 acres infested, 291,903 acres not infested, 87,516 not inventoried. (FY 2000-2001)	6,000 acres infested out of 253,000 managed acres (2.4%).	21,300 acres infested out of 144,284 acres managed (14.7%)	Approximately 15% or 1.25 million acres out of 8.4 million managed. Infestation ranges from minor to monoculture.
NS2(c): Acres of District-owned land identified in land management plans as needing restoration; acres undergoing restoration; and acres with restoration activities completed.	22,350 identified. 6,000 restored.	37% of district lands identified as needing restoration. 6,464 acres undergoing restoration. 10,418 acres restored.	9,627 identified. 1,970 being restored. 14,752 restored as of 2001.	Acreage for projects identified not provided. Four DOT projects totaling 1,000 acres are underway. No acreage provided for completed projects.	80,109 identified. 34,007 being restored. 24,110 restored by the end of 2001.	N/A-WMD measure only.
SRWMD & SFWMD NS2(d): Acres of land infested with invasive nonnative upland plants, by species inventoried	N/A-SRWMD & SFWMD measure only.	Mimosa: 70 Glossy Privet: 6 Chinese Privet: 6 Jap. Honeysuckle: 8 Climbing fern: 250 Chinaberry: 20 Golden bamboo: 5 Chinese Wisteria: 25 Wax begonia: 2 Wild Taro: 1 Total: 393	N/A-SRWMD & SFWMD measure only.	N/A-SRWMD & SFWMD measure only.	Melaleuca: 359,000 Brazilian Peppper: 1,024,000 Australian Pine: 385,000 Climbing fern: 107,000 Lather leaf: 6,500 Burma Reed: 15,000 (1999 data)	N/A-WMD measure only.
Common Measures						
CM(a): Acres in managed conservation areas acquired by the District.	194,880 acres. (2001 data)	Measure stated differently. 442,000 acres identified, 274,804 acquired.	557,576 acres as of October 2001. 18,856 acres under contract.	371,682 acres. (2001)	332,240 acres-does not include areas acquired for water resource projects such as storm water treatment areas, East Coast Buffer, etc. (2001 data)	Approximately 4.4 million acres of non-submerged lands acquired as of March 2001 (Florida Natural Areas Inventory data). ⁴

⁴ The water management district totals do not add up to the statewide total because the statewide total includes conservation lands managed by the districts plus those managed by other state agencies.

Water Management Performance Measure	NFWWMD	SRWMD	SJRWMD	SWFWMD	SFWMD	Florida
CM(b): For District-owned lands: 1) number of management plans required; 2) number of management plans completed; and 3) percentage of management plans completed on schedule.	None required. 4 completed.	6 required. 9 completed. More than 100%	For 2001, no plans were required and none were completed.	1 plan required, in 2001, 1 completed (100%). Total of 15 plans completed or in progress.	No specific schedule of required plans. 11 properties require management plans. 8 of those have been completed.	N/A-WMD measure only.
CM(c): Number and percent of land management plan activities being implemented according to plan schedules.	No data available.	100%, subject to weather and priority.	93 activities planned and completed (100%).	331 activities planned, 305 completed (92%) in 2001.	Related data provided. Management activities are planned and carried out according to annual work plans.	N/A-WMD measure only.
CM(d): Acres of land acquired through less than fee simple ownership, on an annual and cumulative basis.	1,933 acres in 2001, cumulative approx. 2,600 acres.	53,973 acres in 2001, cumulative 134,873.	14 acres acquired through October 2001. Cumulative total: 52,899 acres.	8,000 acres acquired in 2001. Cumulative total is nearly 73,000 acres.	Cumulative acreage is 14,954 acres acquired in 2000, 97 in 2001. More than 7,400 acres acquired before 1990. Acquisitions ranging from 1,253 to 1,868 acres occurred in 1990, 1991, 1993, 1995, 1996.	Data not available at time of publication. More than 50,000 acres have been acquired.
CM(e): Percentage of ERP permits for which compliance inspections were conducted, and of those inspected, percentage found to be in compliance.	N/A-District has no ERP responsibilities.	100% inspected. 91% in compliance (575 of 630 permits)	Percentage of permits issued that were inspected was not provided. 3,099 inspections were conducted, 1,859 (60%) were in compliance.	48% inspected (4,077 out of 8,443). 87% in compliance (3,565). (2000 data).	1,583 environmental inspections, 981 in compliance (62%). 5,587 engineering inspections, 4,134 in compliance (74%). Total inspections 7,170 with 5,115 in compliance (71%). (FY 2001)	DEP does not keep this data in the format stated in the measure. In FY 2000-01, 4,767 ERP projects were inspected. 769 were found to be in significant non-compliance. 86 were brought back into compliance through enforcement, and 316 were brought back into compliance without formal enforcement.

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