

Florida Department of Environmental Protection



Florida Water Plan 2003 Annual Progress Report October 2004

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. The Department of Environmental Protection, the water management districts, and the Executive Office of the Governor cooperatively developed these measures. In 2004, in an effort to improve reporting consistency, reflect changes in monitoring programs and terminology, and focus on those measures believed to be most meaningful, the DEP and the water management districts evaluated the existing performance measures and are considering changes for the 2004 Florida Water Plan Annual Progress Report. A draft of the proposed changes is in Appendix I of this report.

This document is prepared annually to report the progress of the five water management districts and the Department of Environmental Protection in implementing the 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 come from various Department reports and the District Water Management Plan Annual Progress Reports prepared 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.

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 850-245-8678. 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>.

2003 Summary of Water Management District Performance Measures
(Sources: FY 2002 -2003 Progress Reports from Water Management Districts
and 2003 Data from the Department of Environmental Protection)

Water Management Performance Measure	NFWFMD	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.	46% (2002 data)	79% (2002 data)	34% (2002 data)	56% (2002 data)	26% (2002 data)	39% (2003 DEP Reuse Report)
WS1(b): Gross daily per capita water use (Public Supply) by district and water supply planning regions.	District avg.: 164 gpcd. Counties range from 132-235. (2000 WMD data).	District average is 167 gpcd. District has only one water supply planning region. (2001 USGS data)	District average is 168 gpcd. District has only one water supply planning region. (2000 WMD data).	District average is 126 gpcd. Planning region data not yet available. (2001 WMD data).	District avg: 198 gpcd. Lower East Coast: 197. Lower West Coast: 186. Kissimmee Basin: 272. Upper East Coast: 158. (2002 WMD data.)	State average: 174 gpcd in 2000. (2001 USGS data).
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.	80.5 mgd to be made available in Region II; 81.5% under development; 18.5% made available. N/C	No additional water supply planned or made available.	No additional water supply made available in FY 2002-2003, 480 mgd to be made available by 2020. 14 projects initiated. Estimates of supply to be made available are under development.	123 mgd to be made available, 100% of projects are under development, 3 mgd, or 2.5% has been made available.	See data below. ¹	N/A-WMD measure only.

¹ WS1(c)-SFWMD (as of September 2003): Lower East Coast: 1,145 mgd to be made available. 100% under development. 3% made available. Lower West Coast: 422 mgd to be made available, 60% under development, 16% made available. Upper East Coast: 85 mgd to be made available, 46% under development, 40% made available. Kissimmee Basin: 390 mgd to be made available, 81% under development, 1% made available.

Water Management Performance Measure	NWFWMD	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. Funding assistance provided to Crestview in 2002.	No additional water supply planned or made available.	For FY 2002-2003, no significant water was made available. A cumulative total of 17.4 mgd has been made available.	409 mgd to be made available. 238 mgd under development. (2003)	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): 45% had good water quality; 48% had fair water quality; 1% had poor water quality. 6% were not evaluated (2002 data).	308 miles of streams assessed for attainment of drinking water use. 100% attain some or all designated uses. 408,064 acres of lakes and reservoirs assessed. 97% attain some or all designated uses. 3% potentially impaired. (2002 305(b) report)
Flood Protection Objective 1: Minimize damage from flooding.						
FP1(a) Percentage of district works maintained on schedule.	N/A (No district works).	N/A (No district works).	100% being maintained on schedule.	84 structures, 100% being maintained on schedule (2003)	95,557 tasks scheduled, 68,791 completed. 72% of works maintained on schedule.	N/A-WMD measure only.

² WS1(d)-SFWMD (2003): Lower East Coast: 35.76 mgd, Lower West Coast: 8.2 mgd, Upper East Coast 1 mgd, Kissimmee Basin: 0.00 mgd, District total: 44.96 mgd

Water Management Performance Measure	NFWWMD	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. 200,476 acres acquired. (54%) (2003 data)	208,158 acres identified. 57% acquired. (2003 data)	124,561 acres identified. 8,280 (7%) acquired in FY 2002 – 2003 data).	201,040 acres were identified. Of that, 4,646, or 2.3% were acquired. Cumulative acres acquired is 250,831 as of Sept. 2003.	1,073,535 acres identified. 892,670 acres acquired. (83%). (2002 data)	N/A-Except for the Save Our Rivers program, state land acquisition programs do not 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.	31 of 38 proposed PLRGs (82%) established, including interim, provisional, and final PLRGs.	10 SWIM water bodies, all have established PLRGs (100%).	PLRGs not addressed in WMD report.	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% (2000 data)	Stream: 80% Lake: 15% Estuary: less than 1% (2000 data)	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: 46% Lake: 80% Estuary: 83% (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.	Data not available.	274 out of 316 (87%) public wells and monitoring wells sampled showed no significant changes. 13% were degrading.	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. (2000 data)	No data provided.	3 springs improving. 13 springs stable. 0 springs degrading. (2002 data)	11.9% of springs improving. 52.4% stable. 35.7% degrading. (2003 data)	N/A-No springs in SFWMD.	Data not available, but monitoring is ongoing and results will be provided in future updates of this report.
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. Lower Suwannee to be established in 2004.	71 of 73 established MFLs are being met (97%).	41 Wetlands, 15 maintained. 15 Lakes, 0 maintained. 7 Aquifers, 2 maintained. 1 Stream, 1 maintained. All not being maintained have recovery strategies. (2002 data)	MFLs established for the Everglades, Lake Okeechobee, Biscayne Aquifer, Lower West Coast aquifer system, the Caloosahatchee and St. Lucie Estuaries, and the Loxahatchee River . Data not yet available to assess if they are being maintained.	N/A-WMD measure only.

³ The predominant statewide ground water issue for potable water use (with the exception of metals) are localized areas of coliform contamination found in wells for both unconfined and confined aquifers. The predominant statewide ground water – surface water interaction issues (with the exception of metals) are localized areas of elevated phosphorus and nitrates in unconfined and confined ground water where connections exist to surface water bodies. General ground water trends indicate nutrients are fairly stable but coliforms are increasing for wells in unconfined aquifers.

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.	5 lakes, 1 wetland , and 1 stream established in 2003. Cumulative totals: 58 lakes, 3 streams, 4 wetlands, plus 14 lakes reevaluated. No breakdown for 50 MFLs established prior to 1998.	14 lakes established in 2003. Cumulative totals: 41 wetlands, 29 lakes, 1 river, and 7 aquifers	MFLs established for 1 wetland, 1 lake, 2 estuaries, 2 aquifers, and 1 river.	Statewide, MFLs have been established for 46 wetlands, 112 lakes, 6 rivers, 9 aquifers, 2 River/Estuaries, and 8 aquifer/springs.
NS1(c): Percentage of MFLs established in accordance with previous year's schedule.	No MFLs established.	One MFL was scheduled to be established in 2003. None were established	7 established out of 10 scheduled (70%). (2003)	57 MFLs were scheduled in 2003. 13 were established on schedule.	No MFLs were scheduled to be established in 2003.	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: 6.45 Created: 0 Enhanced: 2 Restored: .05 Preserved: 0 (FY 2002-2003 data)	Impacted: 1,281 Created/restored: 275. Enhanced: 725. Wetlands & uplands Preserved: 10,653 (FY 2002-2003 data)	Impacted: 350.5 Created/restored: 263.4. Enhanced: 620.1. Preserved: 4,941.6 (2002 data)	Impacted: 1,964. Preserved/enhanced: 7,573. Created/restored: 940. Upland compensation: 1,634. (2003 data)	Impacted: 4,085 Preserved: 324 Created: 6,439 Enhanced: 2,855 (FY 2002-2003 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.	750 Acres (FY 2002-2003)	No data provided.	6,544 acres infested of 381,819 acres surveyed (1.7%). (2002 data)	542 Acres (2002 data)	25,082 acres total. Hydrilla: 24,442 Water Hyacinth: 303 Water Lettuce: 132 Hygrophila: 205 (2001 data)	68,728 acres (2003)
NS2(b): Acres of District lands infested with invasive nonnative upland plants by degree of land coverage.	28 acres infested out of 201,038 acres managed.	415 acres infested out of 327,723 acres managed.	57,449 acres infested (14%). 294,391 acres not infested . 46,986 not inventoried (16%). (FY 2002-2003)	6,895 acres infested out of 263,736 managed acres (2.6%). (2003 data).	144,284 acres infested out of 325,386 managed (44.3%). (2003 data)	Approximately 15% or 1.45 million acres out of 9.7 million managed. Infestation ranges from minor to mono-culture.(2003)

Water Management Performance Measure	NFWWMD	SRWMD	SJRWMD	SWFWMD	SFWMD	Florida
NS2(c): Acres of District-owned land identified in land management plans as needing restoration; acres undergoing restoration; and acres with restoration activities completed.	25,607 identified. 860 restored in 2003.	36% of district lands identified as needing restoration. 37,094 acres undergoing restoration. 14,872 acres restored.	30,977 identified. 2,000 being restored. 15,844 restored. 13,093 to be restored.	8,400 identified. 3,104 undergoing restoration. 2,749 restored. (2003 data)	86,601 identified. 27,652 being restored. 36,911 restored (2003 data).	N/A-WMD measure only.
Common Measures						
CM(a): Acres in managed conservation areas acquired by the District.	201,038 acres. (2003 data)	327,723 acres. (2003 data)	602,500 acres in FY 2002-2003.	400,858 acres, including lands managed by other entities. (2003)	325,386 acres-does not include areas acquired for water resource projects such as storm water treatment areas, East Coast Buffer, etc. (2003 data)	Nearly 3.2 million acres of non-submerged lands acquired as of March 2003 (Florida Natural Areas Inventory data). ⁴
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. None completed.	Two required. Two completed.	For 2003, 3 plans were required and 8 were completed.	3 plans required in 2003. 1 completed. 1 in progress. Of 22 properties needing plans, 20 are complete or in progress.	No specific schedule of required plans. 11 properties require management plans. 7 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%	1140 activities planned for 2003. 155 were completed (82%).	95% of planned activities were completed or are ongoing in 2003.	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.	810 acres in 2003, cumulative approx. 3,835 acres.	1,618 acres in 2003, cumulative 155,518.	5,376 acres acquired in 2003. Cumulative total: 68,103 acres.	5,473 acres acquired in 2003. Cumulative total is 87,490 acres.	Cumulative acreage is 14,953 acres. No less than fee acquisitions in 2003.	12,743 acres acquired in 2003. Cumulative total 80,600 acres.

⁴ This total does not include federal, local government, or water management district lands.

Water Management Performance Measure	NFWWMD	SRWMD	SJRWMD	SWFWMD	SFWMD	Florida
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. 97% in compliance (628 of 646 permits)	3,700 inspections were conducted, 2,000 (54%) were in compliance.(FY 2002-2003)	32% inspected (3,966 out of 112,321). 3,706 (94%) in compliance (2002 data).	2,833 inspections, 2,028 in compliance (71.5%). (FY 2003)	DEP does not keep this data in the format stated in the measure. In FY 2002-03, 3,663 ERP projects were inspected. 448 were found to be in significant non-compliance. 54 were brought back into compliance through enforcement, and 177 were brought back into compliance without formal enforcement.

Appendix I

SUMMARY OF WATER MANAGEMENT PERFORMANCE MEASURES Florida's Water Management Districts June 2004

WATER SUPPLY MEASURES

Objective 1: Increase available water supplies and maximize overall water use efficiency to meet identified existing and future needs.

- 1 (a) Percentage of domestic wastewater reuse
- 1 (b) Gross per capita water use (Public Supply) by district and water supply planning regions
- 1 (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
- 1 (d) Within each water supply planning region, the estimated additional quantities of water supply made available through district water supply development assistance

Objective 2: Prevent contamination of water supplies.

- 2 (a) Percentage of surface water supply sources for which water quality fully attains the designated use

FLOOD PROTECTION MEASURES

Objective 1: Minimize damage from flooding.

- 1 (a) Percentage of District works maintained on schedule

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.

- 2 (a) Number of acres identified for acquisition to minimize damage from flooding and the percentage of those acres acquired

WATER QUALITY MEASURES

Objective 1: Protect and improve surface water quality.

- 1 (a) Percentage of water bodies that attain or potentially do not attain their designated uses under the TMDL program

Objective 2: Protect and improve ground water quality.

- 2 (a) Improving, degrading and stable trends in groundwater quality
- 2 (b) Improving, degrading and stable trends in nitrate concentrations in springs

NATURAL SYSTEMS MEASURES

Objective 1: Maintain the integrity and functions of water resources and related natural systems.

- 1 (a) Number of MFLs, by water body type, established annually and cumulatively
- 1 (b) Percentage of MFLs established in accordance with previous year's schedule
- 1 (c) For the previous fiscal year, the total acres of wetlands or other surface waters authorized by environmental resource permit to be impacted, and the number of acres required to be created, enhanced, restored and preserved*

Objective 2: Restore degraded water resources and related natural systems to a naturally functioning condition.

- 2 (a) Acres of invasive nonnative aquatic plants in inventoried public waters
- 2 (b) Acres of District managed lands infested with invasive nonnative upland plants
- 2 (c) Acres of district-owned land identified in land management plans as needing restoration; acres undergoing restoration; and acres with restoration activities completed

COMMON MEASURES

- a) Acres of land acquired through fee simple, and less than fee simple, respectively, on an annual and cumulative basis
- b) Number and percent of land management plan activities being implemented according to plan schedules

* NOTE: Two other optional measures may be used in addition to this measure: 1) Number of ERP sites (permitted and unpermitted) at which inspections were conducted in the previous fiscal year, and of those inspected, the number of sites found to be significantly out of compliance; and 2) Number of ERP violations identified in the previous fiscal year, the number of violations resolved in that timeframe, and the cumulative number of outstanding violations.

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