



Florida Water Plan

2002 Annual Progress Report



June 2003

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 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.

Some notable observations in this year's progress reports:

- Statewide, 39% of available reclaimed water is reused.
- Between 77 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 46% of streams, 80% of lakes, and 83% of estuaries for water quality.
- The DEP established ground water Status and Trend Networks in 2000 that sample approximately one-fourth of the state each year. A statewide analysis of the status and trends in ground water quality will occur after statewide data is available in 2005. The ground water beneath approximately 75% of the state's land area has been representatively sampled in over 1,000 wells during the past 3 years. Considering only the primary drinking water standards that are based on health effects, 80% of the well waters satisfy their designated use.
- 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 more than 124,500 acres of degraded water resources and related natural systems.
- Approximately 9 million acres in public ownership (state, federal, and local government) are being managed for conservation purposes statewide.
- Environmental resource permit compliance inspections conducted by the water management districts indicate that, of the facilities inspected, between 77% and 97% 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. Some progress was made in 2002 and 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 850-245-8678. 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>.

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

| Water Management Performance Measure | NWFWMD | 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. | 59% (2002 data) | 79% (2002 data) | 49% (2002 data) | 55% (2002 data) | 25% (2002 data) | 39% (2002 data) |
| WS1(b): Gross daily per capita water use (Public Supply) by district and water supply planning regions. | District avg.: 189 gpcd. 2001 USGS data) Planning regions range from 128-191. (1995 USGS data). | District average is 167 gpcd. District has only one water supply planning region. (2001 USGS data) | District average is 170 gpcd. District has only one water supply planning region. (2000 WMD data). | District average is 139 gpcd. Planning region data not yet available. (2000 WMD data). | District avg: 196 gpcd. Lower East Coast: 185. Lower West Coast: 235. Kissimmee Basin: 279. Upper East Coast: 166. (2000 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. | 34 mgd to be made available in Region II; 81.5% under development; 18.5% made available. | No additional water supply planned or made available. | No additional water supply made available in FY 2001-2002, 480 mgd to be made available by 2020. 14 projects initiated. Estimates of supply to be made available are under development. | SWFWMD's water resource development projects involve activities that support water supply development. It is not possible to quantify the amount of water these activities will make available. | See data below. ¹ | N/A-WMD measure only. |

¹ WS1(c)-SFWMD (as of October 2001): 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, 52% under development, 22% made available. Upper East Coast: 85 mgd to be made available, 18.7% under development, 23.74% made available. Kissimmee Basin: 390 mgd to be made available, 81% under development, 0.40% 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 on amount of water to be made available. Funding assistance provided to Crestview. | No additional water supply planned or made available. | For FY 2001-2002, no additional water was made available. 3.3 mgd was made available in prior years. | 432 mgd to be made available. 215 mgd under development. (2002) | 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): 57% had good water quality; 33% had fair water quality; 2% had poor water quality. 8% were not evaluated (2001 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. | 75 structures, 100% being maintained on schedule (2002) | 85,599 tasks scheduled, 66,343 completed. 77.5% of works maintained on schedule. | N/A-WMD measure only. |

² WS1(d)-SFWMD (2002): Lower East Coast: 26.38 mgd, Lower West Coast: 19 mgd, Upper East Coast 2.17, Kissimmee Basin: 0.00 mgd, District total: 47.55 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. 197,436 acres acquired. (53%) | 208,158 acres identified. 56% acquired. (2002 data) | 115,541 acres identified. 20,968 (18%) acquired (2002 data). | 199,033 acres were identified. Of that, 4,597, or 2.3% were acquired. Cumulative acres acquired is 245,735 as of Sept. 2002. | 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. | 15 of 24 proposed PLRGs (63%) established on 5 water bodies with SWIM plans as of Sept. 2002. | 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% (2000 data) | 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: 46% Lake: 80% Estuary: 83% (2002 305(b) Report) |

| Water Management Performance Measure | NFWMD | 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. | 2 springs improving. 12 springs stable. 5 springs degrading. (1995-2000 data) | 11.9% of springs improving. 47.6% stable. 40.5% degrading. (2002 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 2003. | 60 of 63 established MFLs are being met (95%). | 41 Wetlands, 0% maintained. 15 Lakes, 0% maintained. 7 Aquifers, 28% maintained. 1 Stream, 0% maintained. (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 DEP established Status and Trend Networks in 2000 that sample approximately one fourth of the state each year. A statewide analysis of the status and trends in ground water quality will occur after statewide data is available in 2005. The ground water beneath approximately 75% of the state's land area has been representatively sampled in over 1000 wells during the past 3 years. The parameters include 7 of the 93 ground water standards assigned to the designated use of potable water and represent coliforms, nitrates, and a select group of inorganic contaminant indicators. Preliminary results to date indicate that for these limited primary and secondary ground water standards, 73% of the wells measure good water quality that satisfy their designated use. Considering only the primary standards that are based on health effects, 80% of the well waters satisfy their designated use.

| 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 and 1 wetland established; 1 lake reevaluated in 2002. Cumulative totals: 53 lakes, 2 streams, 3 wetlands, 14 lakes reevaluated. No breakdown for 50 MFLs established prior to 1998. | No MFLs established in 2002. Cumulative totals: 41 wetlands, 15 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. | 1 MFL was scheduled, none established. | No MFLs were scheduled to be established in 2002. | 7 established out of 17 scheduled (41%). (2002) | No MFLs were established on schedule in 2002. | No MFLs were established on schedule in 2002. | 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: 16.27 Created: 0 Enhanced: 0 Restored: 123.1 Preserved: 0 (FY 2001-2002 data) | Impacted: 1,537 Created/restored: 411. Enhanced: 1,909. Preserved: 12,354 (FY 2001-2002 data) | Impacted: 278.9 Created/restored: 461.9. Enhanced: 284.3. Preserved: 4,924.7 (2002 data) | Impacted: 3,112. Preserved/enhanced: 6,171. Created/restored: 2,038. Upland compensation: 1,035. (2002 data) | Preserved: 1,260 Created: 474 Improved: 3,320 Temporarily disturbed: 7,454 Permanently destroyed: 485 (FY 2001-2002 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. | 570 Acres (FY 2001-2002) | No data provided. | 5,807 acres of 911,090 acres of water bodies (0.6%). (2001 data) | 663 Acres (2001 data) | 25,082 acres total. Hydrilla: 24,442 Water Hyacinth: 303 Water Lettuce: 132 Hygrophila: 205 (2001 data) | 139,028 acres (2002) |
| NS2(b): Acres of District lands infested with invasive nonnative upland plants by degree of land coverage. | 393 acres infested out of 197,997 acres managed. | 393 acres infested out of 326,886 acres managed. | 13,617 acres infested (4%). 280,707 acres not infested (80%). 57,212 not inventoried (16%). (FY 2001-2002) | 6,600 acres infested out of 257,000 managed acres (2.6%). | 21,300 acres infested out of 144,284 acres managed (14.7%). (2001 data) | Approximately 15% or 1.25 million acres out of 8.4 million managed. Infestation ranges from minor to monoculture. |

| 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. | 25,467 identified. 6,759 restored. 759 restored in 2002. | 36% of district lands identified as needing restoration. 7,108 acres undergoing restoration. 12,232 acres restored. | 11,393 identified. 15,203 being restored. 14,752 restored as of 2002. | 8,700 identified. 3,239 undergoing restoration. 2,012 restored. (2002 data) | 80,109 identified. 29,127 being restored. 34,110 restored by the end of 2002. | N/A-WMD measure only. |
| Common Measures | | | | | | |
| CM(a): Acres in managed conservation areas acquired by the District. | 197,997 acres. (2001 data) | 326,886 acres. (2002 data) | 583,607 acres as of 2002. | 375,026 acres. (2002) | 346,425 acres-does not include areas acquired for water resource projects such as storm water treatment areas, East Coast Buffer, etc. (2002 data) | Nearly 3.2 million acres of non-submerged lands acquired as of March 2002 (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. | None required. None completed. | For 2002, 3 plans were required and 2 were completed. | 4 plans required in 2002. 2 completed. 17 plans in progress or completed out of 20 properties needing plans. | No specific schedule of required plans. 10 properties require management plans. 5 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. | No data provided. | 177 activities planned for 2002. 159 were completed (90%). | 383 activities planned, 355 completed or ongoing (93%) in 2002. | 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. | 425 acres in 2002, cumulative approx. 3,025 acres. | 51,158 acres in 2002, cumulative 153,897. | 11,731 acres acquired in 2002. Cumulative total: 83,757 acres. | 9,604 acres acquired in 2002. Cumulative total is 82,017 acres. | Cumulative acreage is 14,953 acres acquired as of 2002, 97 in 2001. More than 7,400 acres acquired before 1990. | 6,732 acres acquired in 2002. Cumulative total 67,862 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 (674 of 698 permits) | Percentage of permits issued that were inspected was not provided. 2,432 inspections were conducted, 1,621 (67%) were in compliance.(FY 2001-2002) | 42% inspected (4,367 out of 10,296). 93% in compliance (4,049. (2001 data). | 1,821 environmental inspections, 992 in compliance (71%). 6,391 engineering inspections, 5,673 in compliance (89%). Total inspections 8,212 with 6,969 in compliance (85%). (FY 2002) | DEP does not keep this data in the format stated in the measure. In FY 2001-02, 4,069 ERP projects were inspected. 510 were found to be in significant non-compliance. 72 were brought back into compliance through enforcement, and 387 were brought back into compliance without formal enforcement. |

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