SOUTH FLORIDA WATER MANAGEMENT DISTRICT

2004 Upper East Coast Water Supply Plan Update Overview

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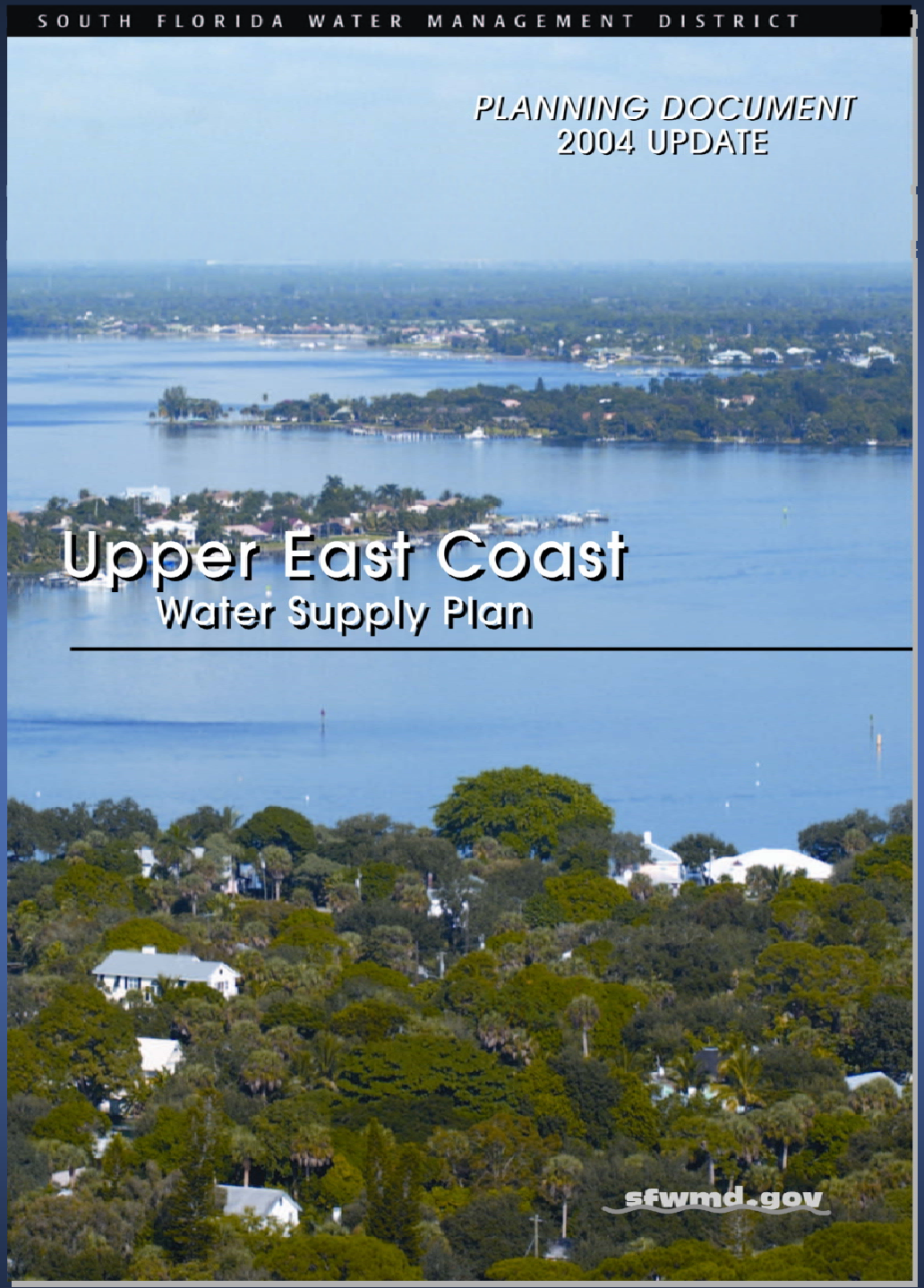

- Plan Approved June 2004
- Planning Horizon 2000 - 2025
- Population projected to increase by 165,846 (52%) to 486,510
- Agricultural acreage forecast to decrease by 14,677 acres (8%) to 171,186 acres
- Overall water demands estimated to increase by 45 MGD (12%) to 337 MGD

UEC Water Supply Issues

- Increases in withdrawals from Surficial aquifer limited
  - Wetlands
  - Salt water intrusion
- Surface water availability limited
- Fresh water discharges affecting health of coastal resources
  - Timing
  - Volume

Potential impacts with increased surficial aquifer use

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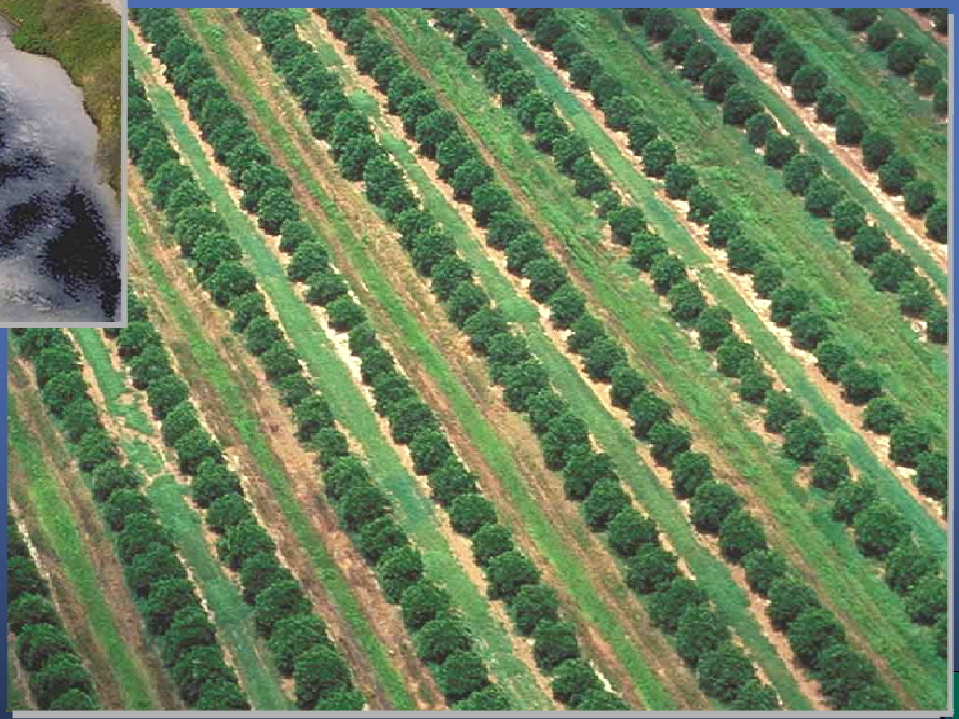
Surface water availability for agricultural use is limited during times of low rainfall



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Timing and volume of freshwater discharges impact coastal resources

South Fork of the St. Lucie Estuary

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Conservation

Reclaimed Water

Surficial Aquifer System

Water Source Options

Aquifer Storage & Recovery

Reservoirs

Surface Water

Floridan Aquifer System

Ocean Water

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2004 UEC Water Supply Plan Update
Overall Conclusion

The needs of the region can continue to be met with **appropriate management and diversification** of water supply sources during a 1-in-10 year drought condition through 2025.

Conclusions (cont.)

- Public Water Supply
  - Continued use of Surficial aquifer
  - Surficial aquifer withdrawals maximized
    - No additional water available in coastal areas
  - Increased use of Floridan Aquifer
  - Look for opportunities for increased efficiency through water conservation

Conclusions (cont.)

- Landscape Irrigation
  - Continued use of Surficial aquifer
  - Surficial aquifer withdrawals maximized
    - No additional water available in coastal areas
  - Increased use of reclaimed water, especially in areas where the Surficial aquifer is maximized
  - Look for opportunities for increased efficiency through water conservation

Conclusions (cont.)

- Agricultural Irrigation
  - Continued use of surface water as primary source
  - Continued use Floridan aquifer as supplemental source to surface water
  - Increases in storage via CERP project and other options should enhance surface water availability
  - Look for opportunities for increased efficiency through water conservation and Best Management Practices (BMPs) Program

Conclusions (cont.)

- Natural Resources
  - Implementation of surface water storage projects will improve water resource management
    - CERP Indian River Lagoon - South
    - Ten-Mile Creek Critical Restoration Project
    - Northern Palm Beach County Comprehensive Water Management Plan
    - CERP North Palm Beach County, Part 1
  - Established Minimum Flows and Levels to protect resources from significant harm

In Closing…

- Continue to develop alternative water supplies to meet growing water needs
- Incorporate use of alternative water supplies, such as reclaimed water, into new developments
- Improve water use efficiency through increased water conservation efforts in new construction, as well as retrofit of existing development
- Support regional efforts to construct storage to meet water needs of coastal resources

Discussion