Solving the Water Puzzle

A science-based collaborative approach





Florida's Water Management Districts

- Special districts
 - Not state agencies
 - Ad valorem taxing
- Governing Board
 - Appointed byGovernor
 - Confirmed by Senate
 - Unpaid volunteers



SWFWMD Areas of Responsibility



MISSION

Protect Water Resources

Meet Water Needs

Reduce Flood Risks

Regulation

- Water Use
 - Actual need?
 - Protect existing users
 - Protect water resources
- Environmental Resource
 - Reduce flooding risk and pollution from new development
 - Protect wetlands
- Well Construction Permits
 - State standards
- Water Shortage Orders



Permits

Water Use Permits

- Is the water actually needed?
- Is the water available without:
 - Affecting an existing user? Harming the water resources?

Environmental Resource Permits

- Ensure new development doesn't:
 - Increase the risk of flooding
 - Worsen water quality
 - Decrease wetland functions

Well Construction Permits — Apply online

Planning

- Needs
- Sources
- Costs

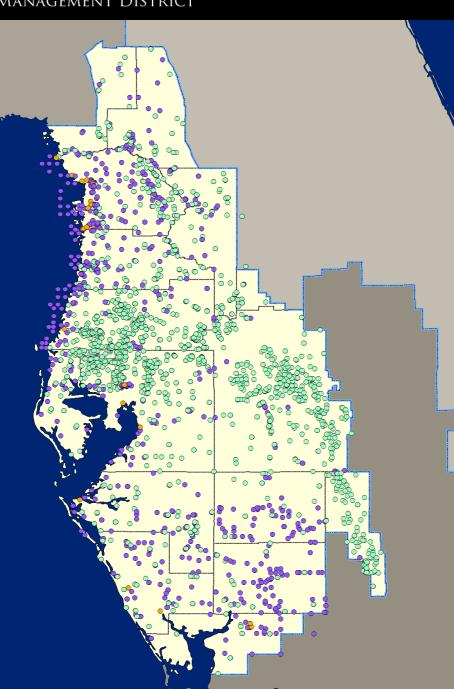


Data Collection

Active Data Collection Sites - April 2017

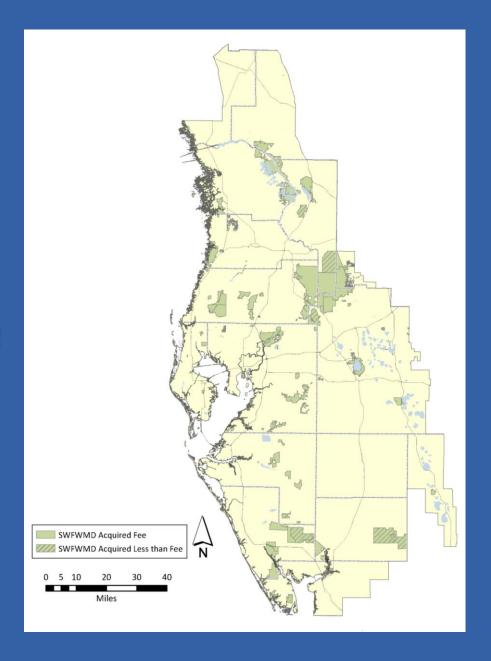
• > 3300

- Hydrologic Data
- Water-Quality Data
- Hydrologic & Water-Quality Data



Land Acquisition and Management

- > 450,652 acres
 - 106,000 easements
- Protect and restore
- Most open to public
- Recreation Guide
 - WaterMatters.org



Environmental Restoration

SWIM Projects

Water Quality

- Treat stormwater to reduce pollutants
- > 140,000 acres of watershed treated

Natural Systems

- Restore, enhance and preserve natural habitats
- > 11,000 acres restored



District Water Control Structures

Total 81

Water Conservation

Flood Control (only 18)

Salinity Barrier

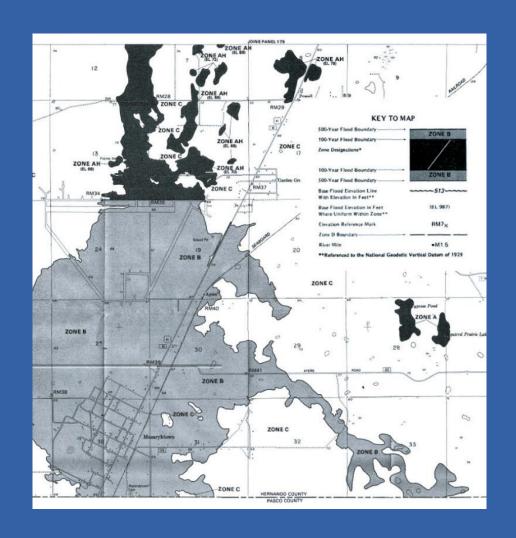


Salinity Barrier Rocky Creek

Flood Protection

Non-Structural

- Watershed Management Program
- FEMA mapping
- Land acquisition





Funding Priorities

- Sustainable water supply
 - Alternative water source development
 - Water storage (reservoirs)
 - Reclaimed water
 - Water conservation
- FARMS
- Environmental restoration
 - SWIM program
- Stormwater improvements
 - Water quality and flood protection

Cooperative Funding Since 1988

- \$1.5 billion District-funded
- \$2.9 billion combined regional investment
- Five-year avg. annual expenditure: \$72 million



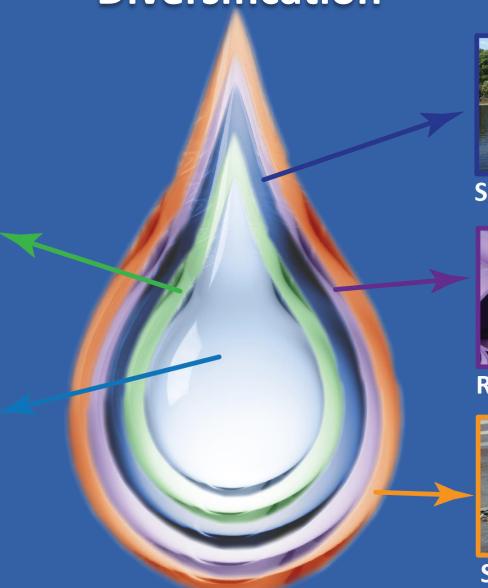
Diversification



Conservation



Groundwater





Surface Water



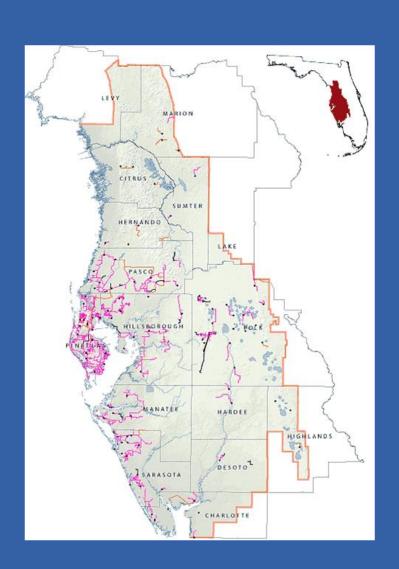
Reclaimed Water



Stormwater

SWFWMD Reuse Funding and Benefits

- 364 projects funded since
 1987
- 970 miles of pipelines
- 248 mgd reuse capacity
- 112-134 mgd of new water
- 13% of Districtwide water use



Reclaimed Water Facts

- 116,000 residences
- 189 golf courses
- 478 parks
- 174 schools
- 8 power plants
- 2 additional power plants (2015)
- 8,700 acres of agriculture
- 43 Cooling Towers



Shared Interests

- 1. Follow the science
- 2. Be open and inclusive
- 3. Collaborate on solutions

