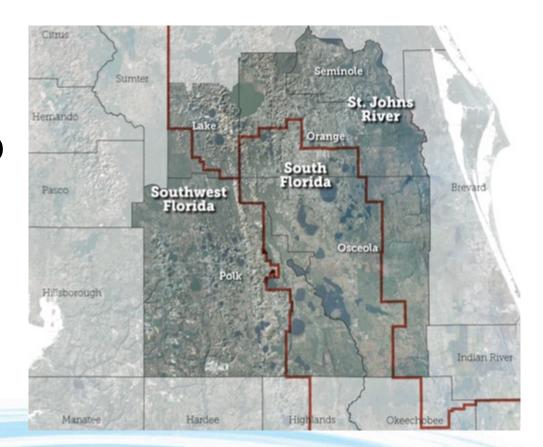
Session PP Alternative Water Supplies: Central Florida Water Initiative

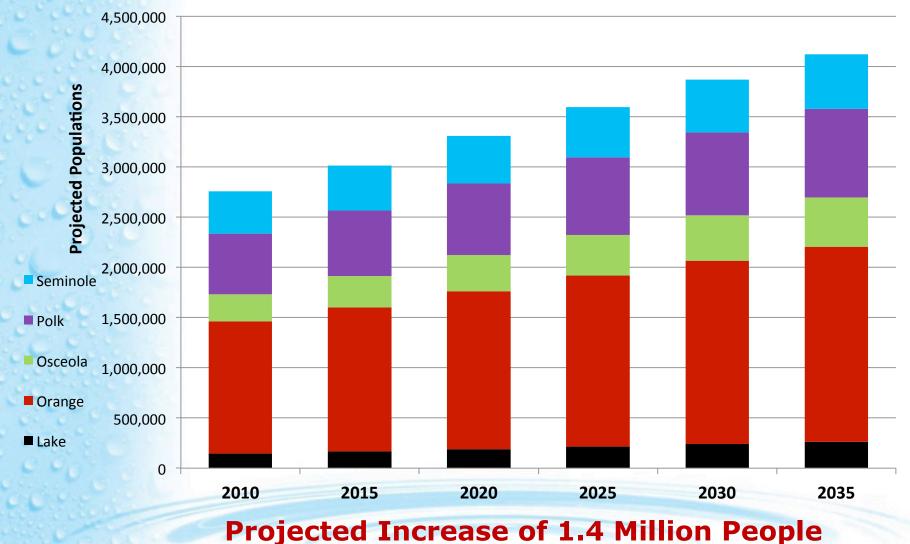
Lennart J. Lindahl, P.E. Assistant Executive Director South Florida Water Management District

What is the CFWI?

A collaborative water supply planning effort to protect, develop, conserve and restore central Florida's water resources.

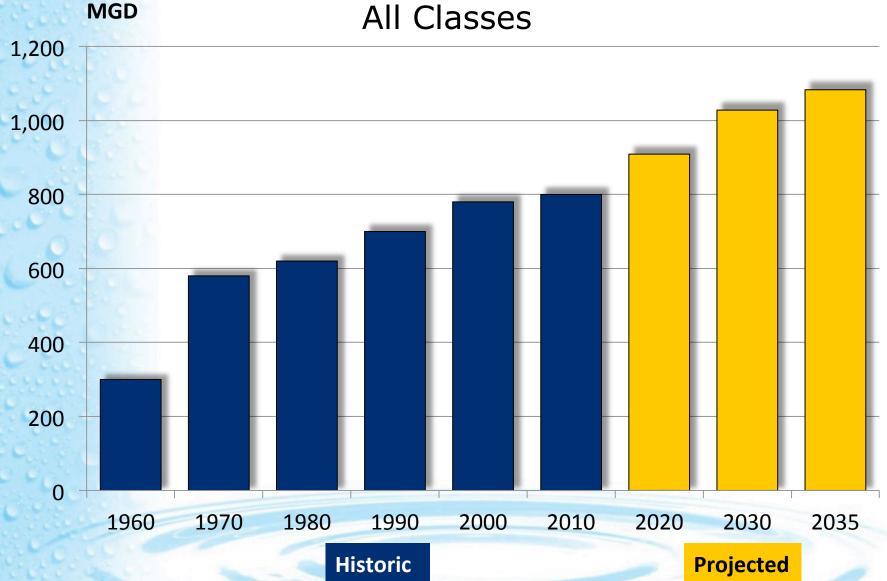


Projected Population



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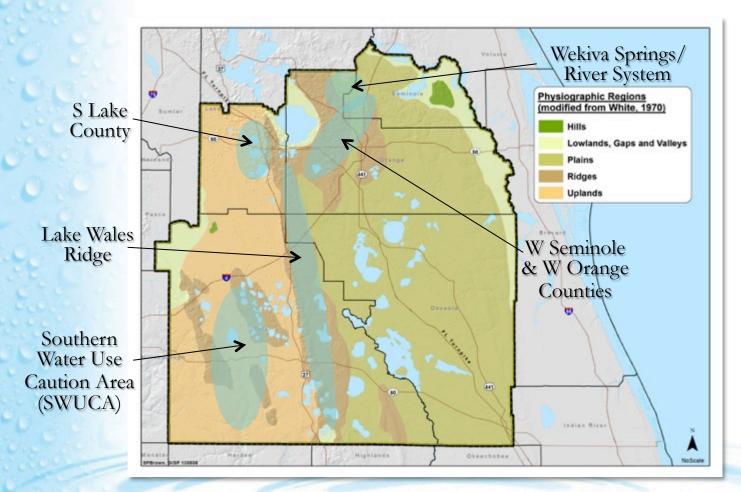


Water Resource Evaluation

- Future demands estimated and aquifer changes evaluated
- Availability of groundwater determined from multiple measuring sticks to ensure protection of water resources and existing water users

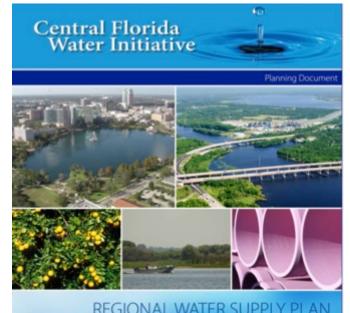
Traditional groundwater sources can meet some, but not all projected and permitted needs in the CFWI.

Primary Areas Susceptible to Groundwater Withdrawals



One Plan for CFWI Region

- Developing first-ever Regional Water Supply Plan
 Collaborative effort between Districts, FDEP, FDACS, utilities and other stakeholders
- Technical teams provided strong scientific foundation for development of Plan



Water Supply Plan

- Traditional Source
 - Fresh groundwater (surficial, intermediate, and Floridan aquifers)
- Non-traditional / AWS
 - Brackish Groundwater
 - Surface Water
 - Seawater
 - Reclaimed Water
 - Reservoirs
 - Aquifer Storage and Recovery

Water Supply Plan

- Plan identifies 142 potential water supply development project options:
 - 37 brackish groundwater
 - 15 surface water
 - 87 reclaimed water
 - 3 management strategy projects
- Projects may produce up to a total of 455 mgd in additional water supply by 2035

Capital Costs

Brackish groundwater and surface water projects could generate an estimated potential of up to 284 mgd of water

Estimated capital cost of up to \$2.5 billion

Reclaimed water projects could deliver 121 mgd (potentially 165 mgd with supplemental sources) of projected increase in reuse

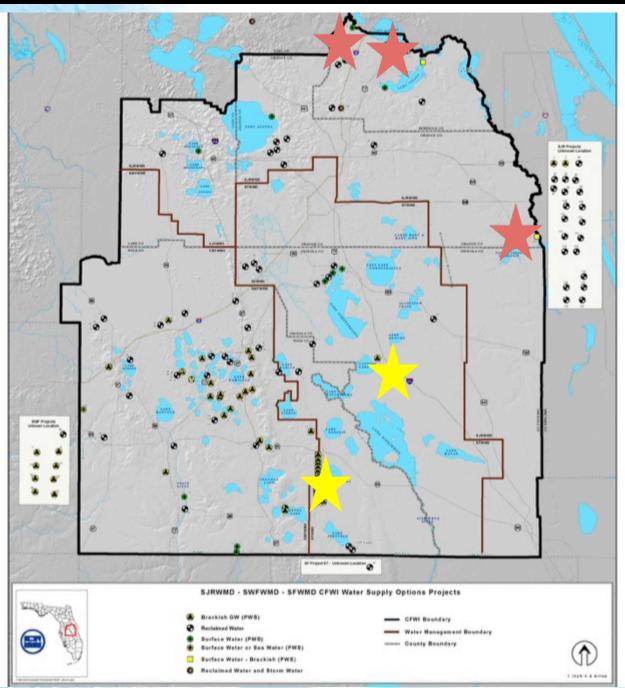
Estimated capital cost of \$452 million

Solutions Team Sub-teams

- Surface water (dispersed storage, reservoirs)
- Groundwater
- Reclaimed water
- Conservation & other management strategies (agriculture & urban landscape)
- Environmental Evaluation
- Other (stormwater, etc.)

Solutions Team Sub-teams

- Focus on regional, multi-jurisdictional project options
- Evaluate project costs
- Support partnerships, identify conjunctive use opportunities and maximize efficiencies
- Develop the CFWI Implementation Plan



Five Major Projects

- St. Johns River at Yankee Lake, 50 mgd
- 2. St. Johns River at SR46, 55 mgd
- 3. St. Johns River at Taylor Creek Reservoir, 43 mgd
- Brackish groundwater at Cypress Lake, 30 mgd
- 5. Lower Floridan at SE Wellfield, 30 mgd



"Conservation measures by all users will continue to have an important role in managing increasing water demands and enabling water supply systems to support more users."



Regional Water **Bupply Plan**

Minimum Firms and Levels and Water Reservations

Hydrologie Analysis

Management

Data, Muniter

Investigations Availability

CPWI Resource CPCA Resources

Contacts

By accessing this sta-to, agree to accept the error and conditions of the justific declarge

Overview of the Central Florida Water Initiative Florida's water management districts are committed to finding new ways of meeting the demand for freshwater. Historically, the Floridan other system has supply vant majority of the water and in the central Plonde rea. The boundaries of three water management districts -- the St. Johns River Water fanagement District, South fonda Water Management ict and Southwest Florida Nater Hanagement District set in the area. The three istricts are studying whether the Floridan aquifer system is reaching its sustainable limits of use and exploring the need develop substan ources of water. In the past, the three districts worked independently to

Central Florida Water Initiative

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The CPWI builds on the prior work of the Central Florida Coordination Area (CFCA). Both efforts focus on an area that includes southern Lake, Grange sola, Seminole and Polk counties he three water management districts along with the Florida Department of Environmental Protection (DEP), Florida epartment of Apriculture and umer Services (DACS), regional public water supply utilities and other stakeholders are collaborating to develop a unified process to address entral Florida's current and long-term water supply needs

Guiding principles

resolve water resource

tisues, but the decisions of

The guiding principles of the CPWE are

- Identify the sustainable quantities of traditional groundwater sources available for water supplies that can be used without causing unacceptable harm to the water resources and associated natural systems.
- Develop strategies to meet water demands that are in excess of the sustainable yield of existing traditional groundwater sources.
- tablish consistent rules and regulations for the three water management districts th eir collective goals, and implement the results of the Central Florida Water Initiative. Establish consistent rules and regulat

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one district can impact the water resources of another. Today, the districts are working collaborative with other agencies and stakeholders to implement effective and consistent water resource planning. development and management through the Central Florida Water Initiative (CFWI).



Additional information can be found at cfwiwater.com

Thank you.