

Palm Beach County Water Resources Task Force

2013 Lower East Coast Water Supply Plan Update









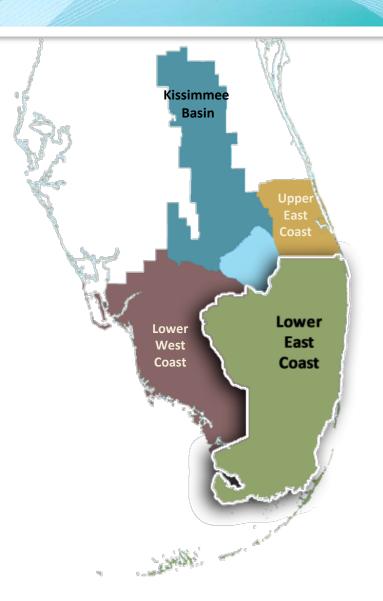


July 25, 2013



What is a Regional Water Supply Plan?

- Current and future look at water needs
- Strategies and sources to meet future water demands and the needs of the environment
- Based on at least a 20-year future planning horizon
- Updated every 5 years
- Local governments required to respond with updates to water facilities element of comprehensive plan



Public Participation

- Water Resources Advisory Commission (WRAC)
 - Serves as overall forum
- ► Five WRAC Issues Workshops held to date
- Meetings held with stakeholders, local governments and utilities



- Contacted/presentations to local governments and other entities
- Draft LEC documents distributed/posted June 5
 - Discussed at: WRAC meeting on June 6
 Stakeholder meeting on June 27
 Governing Board on July 11
 Other local forums



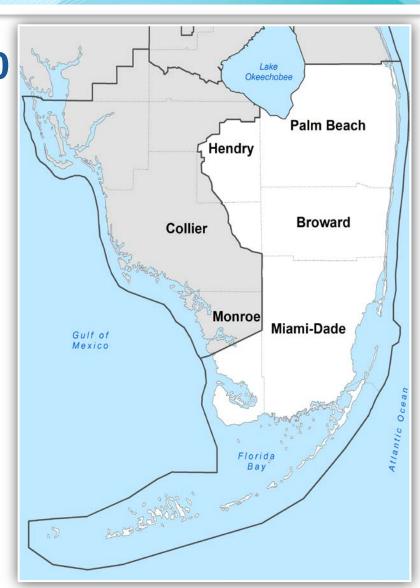
Planning Horizon 2010 – 2030

- **▶** Population:
 - **2010** 5,637,725
 - 2030 6,666,866 (projected)
 18% population increase
- Irrigated agricultural acreage:
 - **2010** 575,316
 - **2030** 575,897

Slight increase (< 1%) in ag acres

- ▶ Gross water demands:
 - 2010 1,719 MGD
 - 2030 1,933 MGD

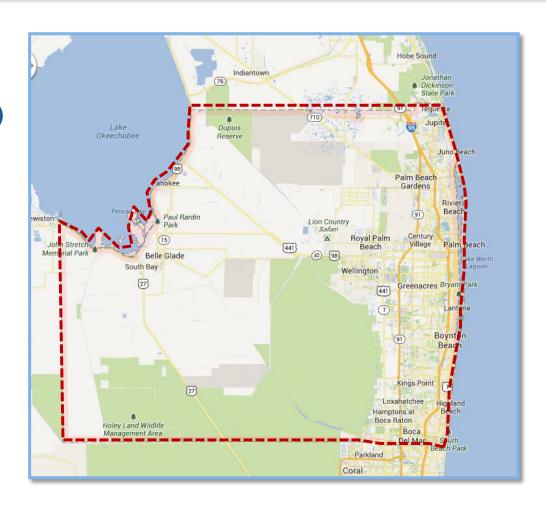
12% water demand increase



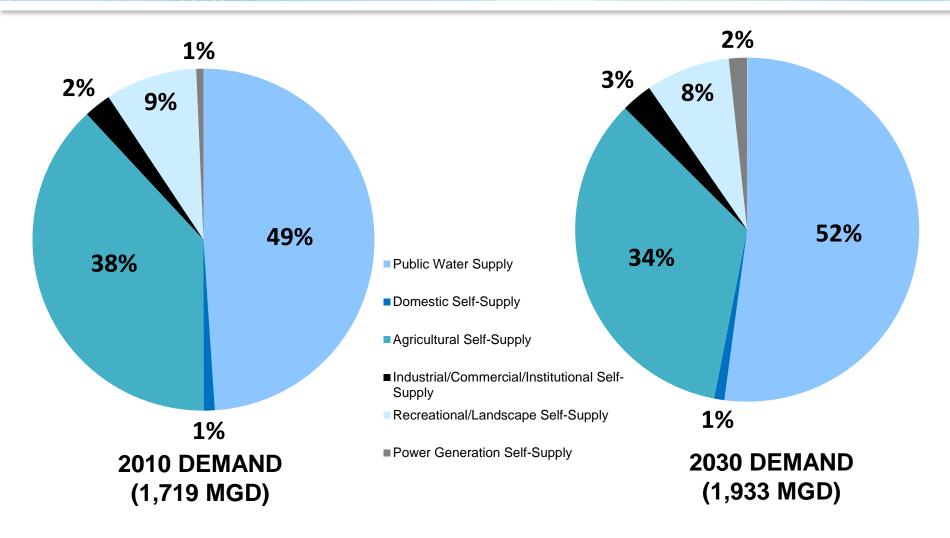
Palm Beach County

- Population:
 - **2010** 1,320,134
 - 2030 1,648,000 (projected)25% population increase
- Irrigated agricultural acreage:
 - **2010** 445,799
 - 2030 446,972
 Slight increase (< 1%) in ag acres
- Gross water demands:
 - **2010** 793 MGD
 - **2030** 852 MGD

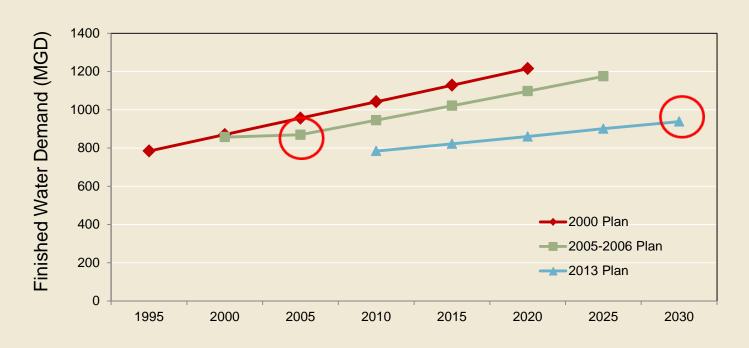
7% water demand increase



2010 & 2030 Percentage of Use by Water Use Category

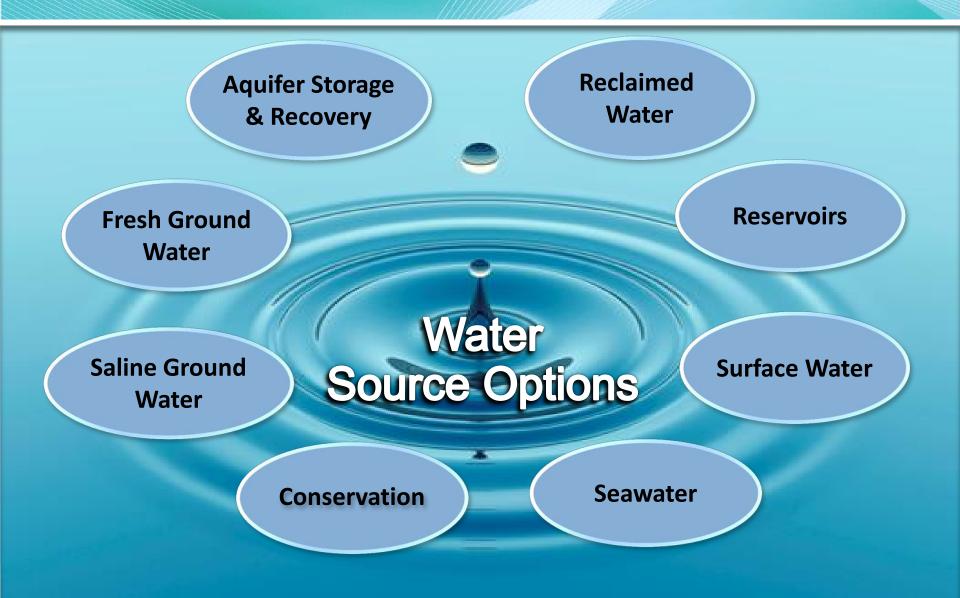


History of Public Water Supply Demand Projections (Finished Water)

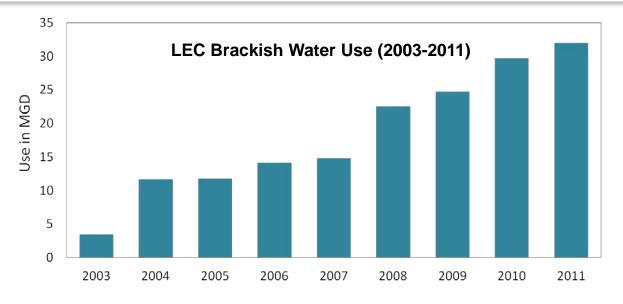


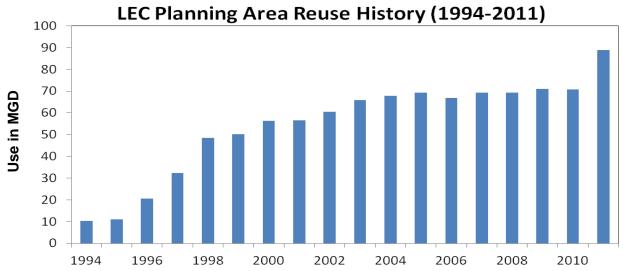
Plan Year	1995	2000	2005	2010	2015	2020	2025	2030
2000 Plan	784	870	956	1,042	1,128	1,215		
2005 Plan		857	(869	945	1,021	1,097	1,175	
2013 Plan				784	822	860	901	938
								- (33

Water Source Options



Reuse & Brackish Water Development in LEC







How Will 2030 Demands Be Met? (PWS, Ag and Rec/Landscaping)

Category	Surface Water	Fresh Groundwater	Brackish Groundwater	Reclaimed Water	Storage	Conservation
Public Water Supply		✓	✓		✓	✓
Agricultural Irrigation	✓	✓				✓
Recreation/ Landscape Irrigation	✓	✓		✓		✓







Conservation

- ▶ Year-round rule savings
- ► All water sources should be used efficiently by all users

The cheapest gallon of water is the gallon we don't use



PWS Water Year (Water Supply Plan) (gallons per capita per day)	1995 (2000 Plan)	2000 (2006 Plan)	2005 (2006 Plan)	2010 (2013 Plan)
LEC Planning Area	184	176	163	142
Palm Beach County	216	219	203	166

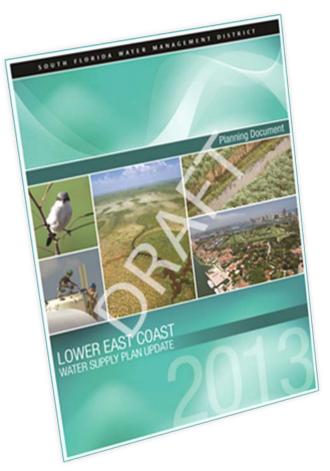
Environmental Water Needs



- Implementation of CERP and other projects
- Regulatory protection of water resources
 - Water Use Permitting Program
 - Minimum Flows and Levels*
 - Water Reservations
 - Restricted Allocation Area Rules
 - Water Shortage Criteria

^{*} Recovery & prevention strategies rely on CERP implementation

Conclusion



The future water demands of the region can be met through the 2030 planning horizon with appropriate management, conservation and implementation of projects in this Plan

Dependent on completion of:

- Water supply development projects by 7 utilities
- Completion of USACE Herbert Hoover Dike Rehabilitation Project and subsequent revision to the Lake Okeechobee regulation schedule
- CERP and other projects to meet environmental needs

Future Direction (Excerpts)

- Continue aquifer monitoring program
- Construct CERP and related projects
- Promote local storage projects
- Continue to evaluate the feasibility of the C-51 Reservoir Project
- Promote water reuse and conservation measures
- Identify the potential impact of sea level rise on utilities and other users
- Complete East Coast Floridan Model
- Coordinate with local governments and utilities on water supply related elements



Requirement: Link Land Use and Water Supply Planning (Ch 163, F.S.)



After the District updates the water supply plan:

- All local governments must amend their comprehensive plan to incorporate a water supply facilities work plan within 18 months of water supply plan update
- Utilities identify the projects to be developed
- Utility Annual Progress Reports

2013 LEC Plan Update Documents



Further information including LEC Plan documents, can be found at:

www.sfwmd.gov/watersupply

What's Next?

July 26 Comment period ends – written

comments to Brenda Mills

(bmills@sfwmd.gov)

August Sixth Stakeholder Workshop

(if necessary)

Sept 5 Final Plan to SFWMD WRAC

Sept 12 Final Plan to SFWMD Governing Board

June-Sept Presentations to local governments

and others



QUESTIONS?

2013 Lower East Coast Water Supply Plan Update

Mark Elsner, P.E.
Section Administrator
Water Supply Development

