

2014 LOWER KISSIMMEE BASIN WATER SUPPLY PLAN



July 10, 2014 Governing Board

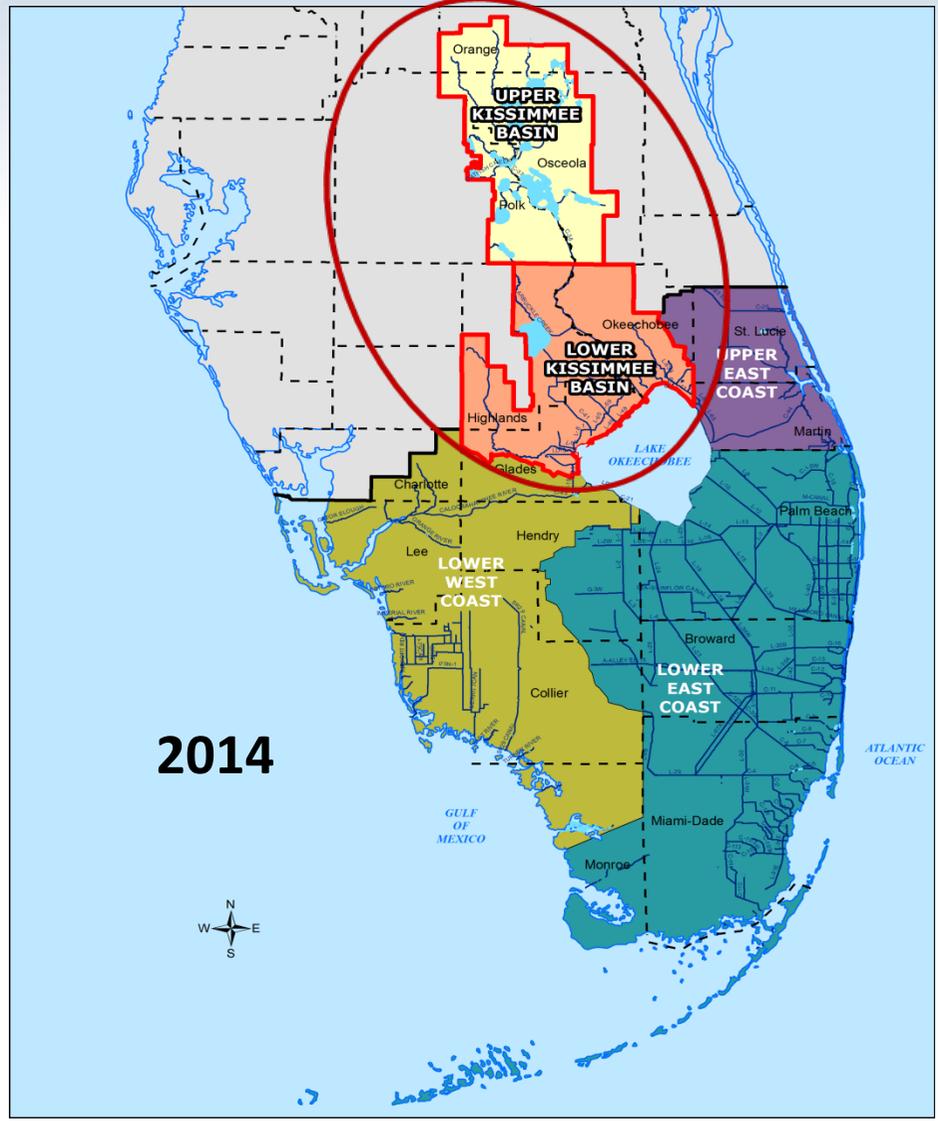
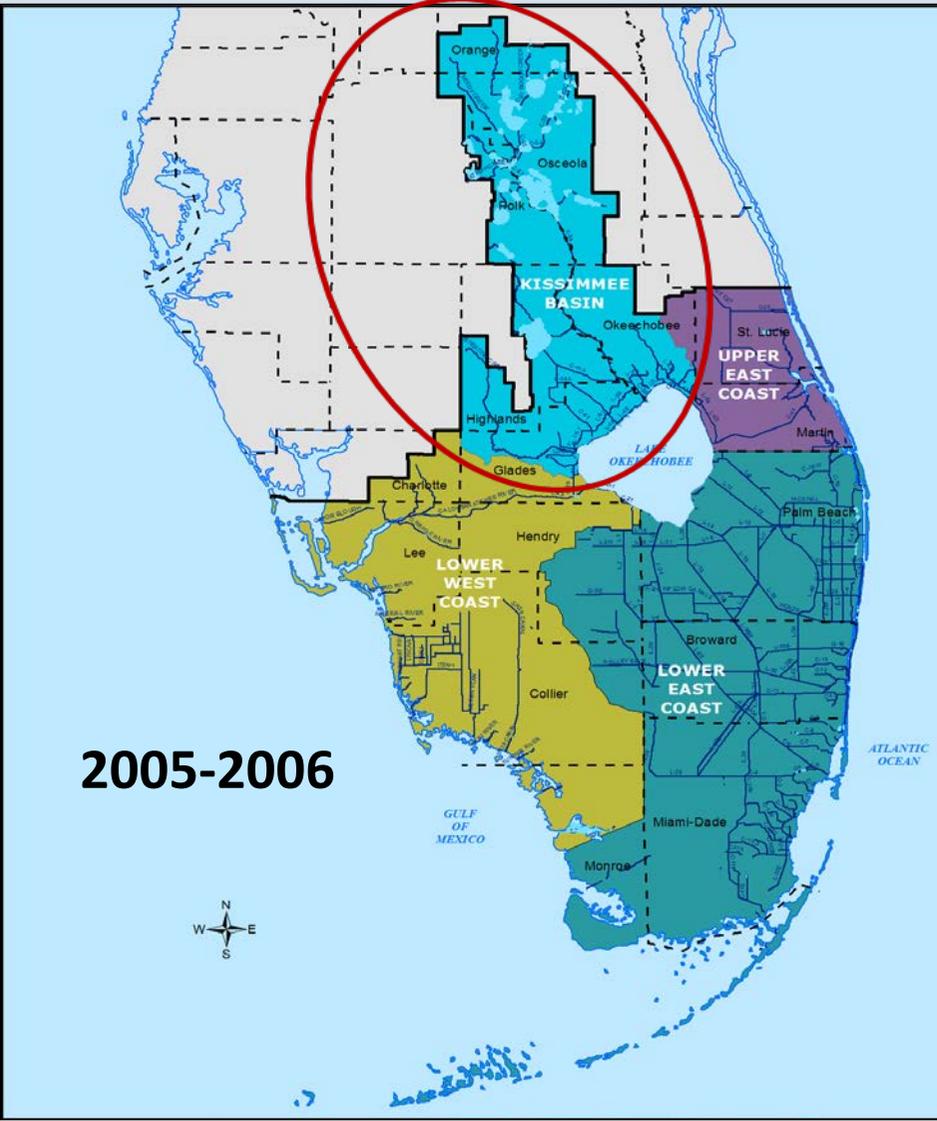
2014 Lower Kissimmee Basin Water Supply Plan Status Update

Cynthia Gefvert

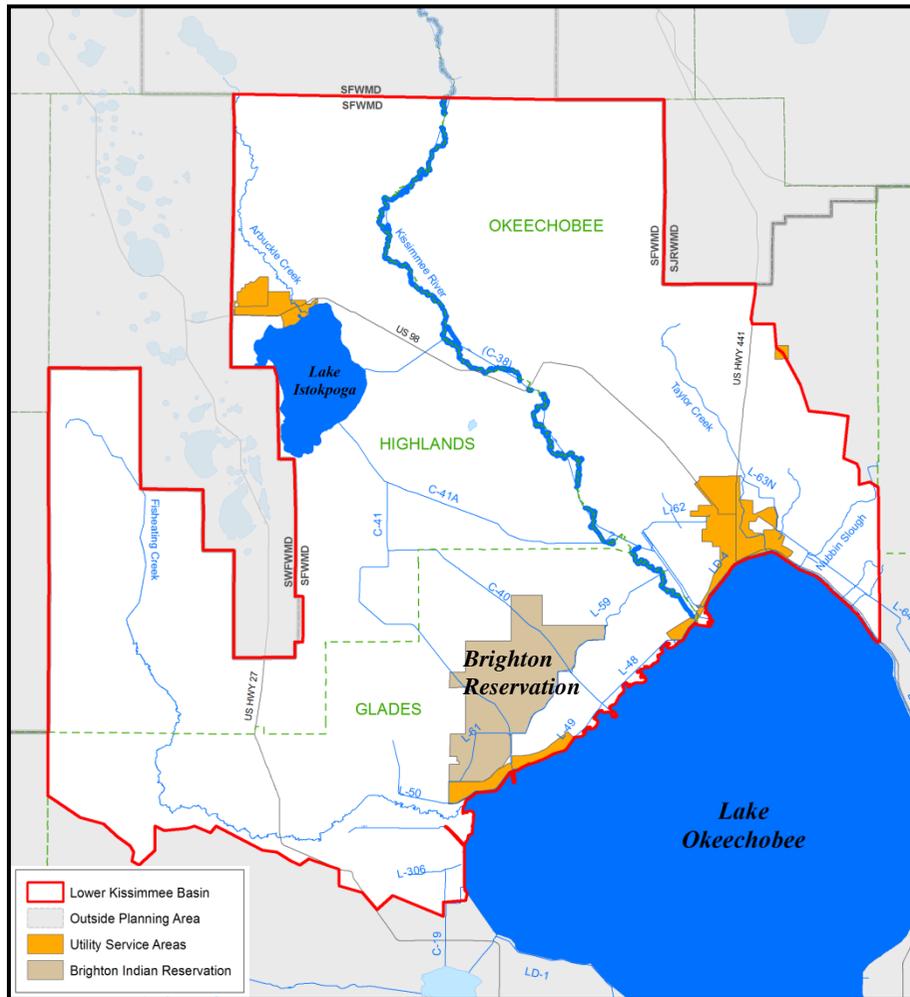
Section Leader, Water Resources Division



Kissimmee Basin Planning Area



Lower Kissimmee Basin (LKB) Description



- The geographic area includes portions of :
 - Okeechobee County
 - Highlands County
 - Glades County
- Major agricultural industry
- Largest urban area – City of Okeechobee (*23,000 residents*)
- Seminole Tribe of Florida – Brighton Reservation
- 6 public water supply utilities
- Lake Istokpoga & Lake Okeechobee
- Kissimmee River

2014 LKB Plan Update Process

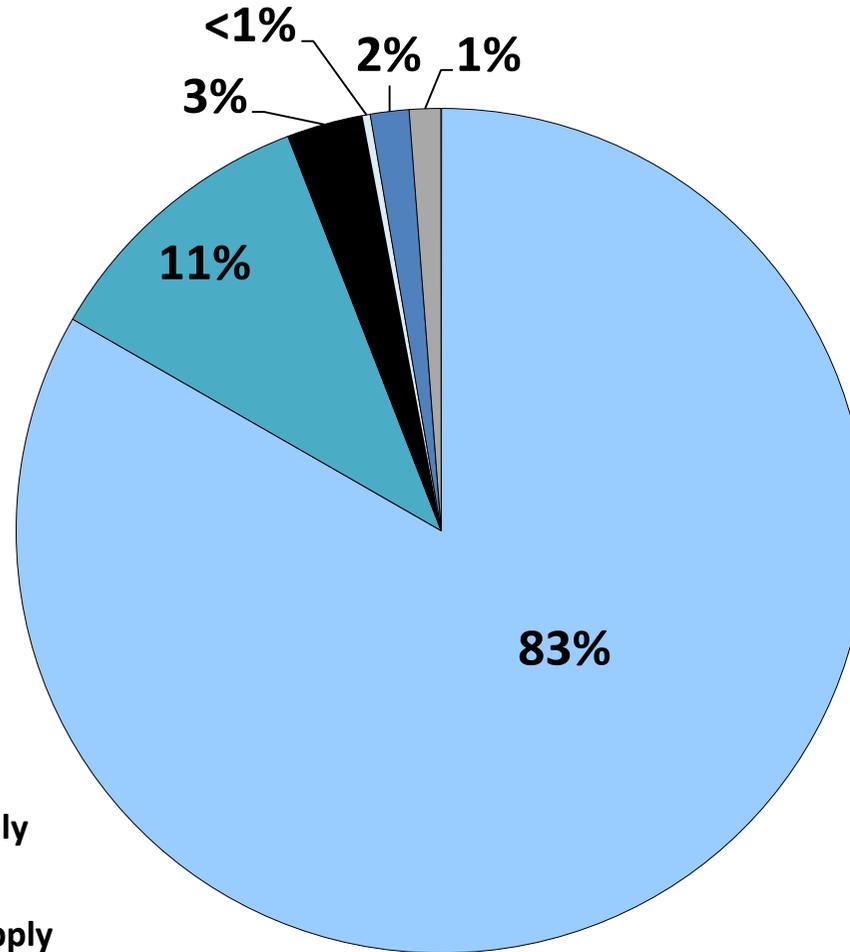
- Water Resources Advisory Commission (WRAC)
 - Serves as overall forum
- Two WRAC Issues Workshops held to date
- Coordination with local stakeholders, Seminole Tribe of Florida, Southwest Florida WMD, special interest groups and local agencies
- Draft LKB Water Supply Plan
 - Distributed/posted June 20
 - Discussed at WRAC Issues Workshop on July 9
 - Will be presented to WRAC in August
 - Presentation of plan for approval to GB in September



Total Demands for the LKB Planning Area

SUMMARY OF DEMANDS				
Use Category	2010 (MGD)	2035 (MGD)	Change (MGD)	Percent Change
Public Water Supply	2.8	3.4	0.6	21
Domestic Self-Supply	2.1	2.6	0.5	24
Commercial & Industrial Self-Supply	19.5	23.9	4.4	23
Power Generation Self-Supply	4.4	6.4	2.0	46
Recreational & Landscape Self-Supply	0.61	0.65	0.04	7
Agricultural Self-Supply	162.5	185.0	22.5	14
Total Water Use	192.0	222.0	30.0	16

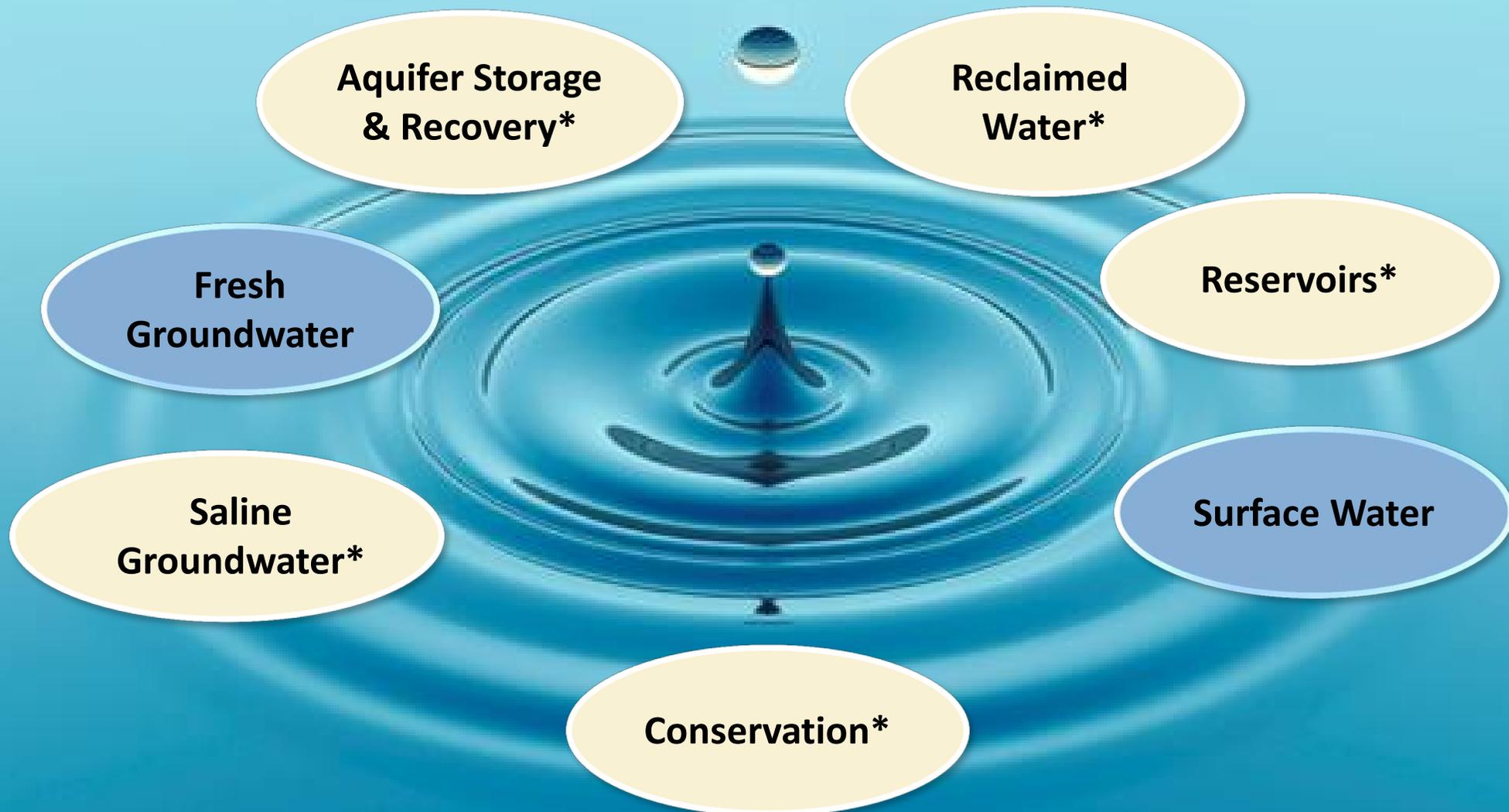
LKB 2035 Demands



- Agricultural Self-Supply
- Commercial & Industrial Self-Supply
- Power Generation Self-Supply
- Recreational & Landscape Self-Supply
- Public Water Supply
- Domestic Self-Supply

2035 Demand = 222 MGD

Water Source Options



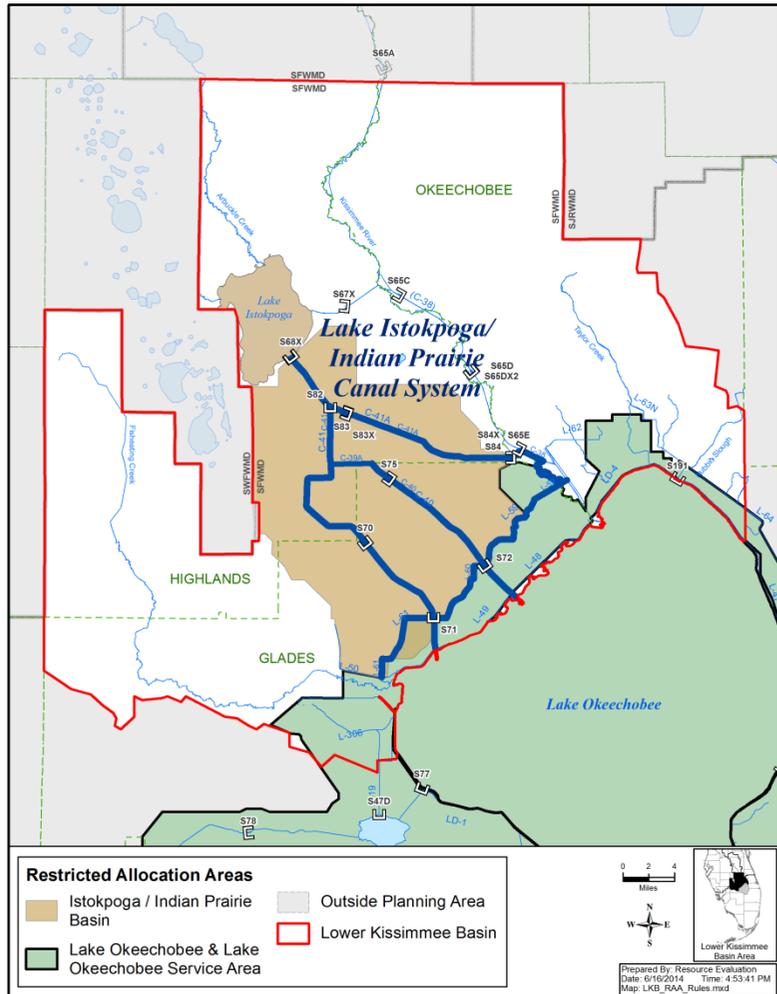
* Alternative water source

Changes Since 2005-2006 KB Plan Update

- **Lake Okeechobee Regulation
2008 schedule**
 - Change in status of
Lake Okeechobee MFL
 - New rules limit additional allocations
- **Lake Okeechobee water shortage
management**
- **Lake Istokpoga MFL**



Water Resource Considerations in LKB



- **Limited surface water availability**
 - Lake Istokpoga/Indian Prairie Basin
 - Lake Okeechobee & LOSA
- **Seminole Tribe of Florida – Brighton Reservation water rights**
- **Kissimmee River Basin Water Reservation development**
- **MFLs – SFWMD & SWFWMD**

Resource Evaluation

Surface water

- **Restricted Allocation Areas – restrict availability of new surface water**
- **Minimal projected demand for new surface water through 2035**

Groundwater

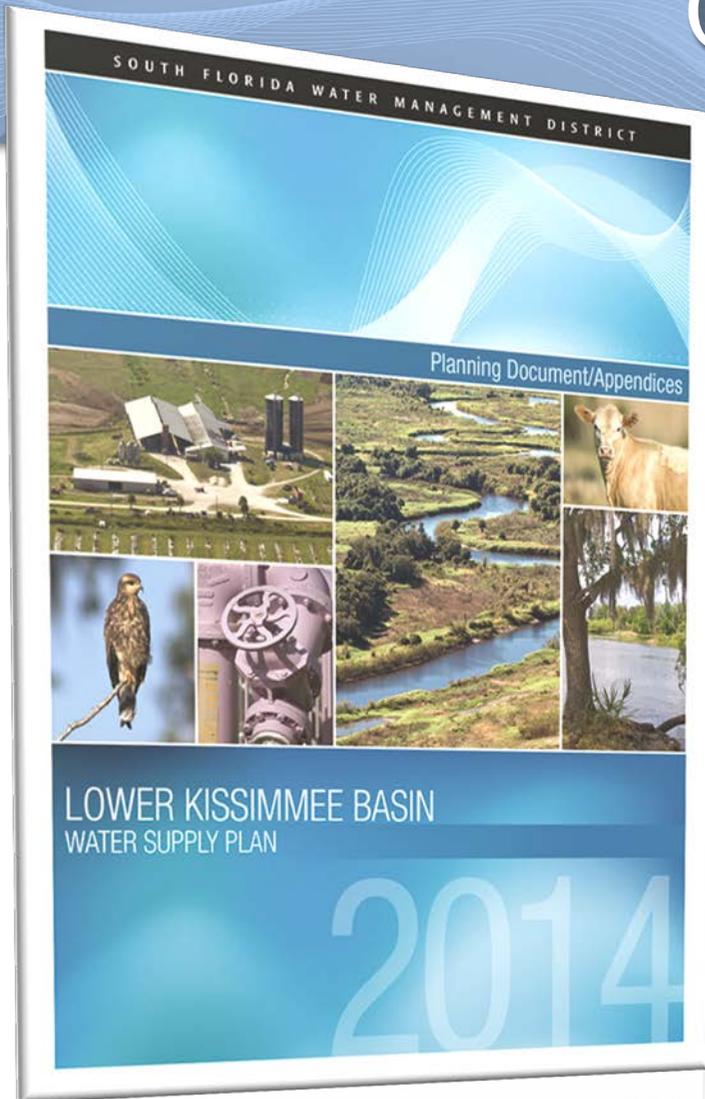
- **Updated LKB groundwater model to evaluate:**
 - 2035 projected demands
 - Drawdown potential under MFL lakes
- **No adverse impacts projected to SFWMD or SWFWMD MFL lakes**

LKB Future Direction



- **Complete development of Kissimmee River Basin Water Reservation**
- **Coordinate with SWFWMD to refine modeling of LKB region and MFL lakes**
- **USACE complete HHD rehabilitation and revise the regulation schedule**
- **Continue to implement MFL recovery and prevention strategies**
- **Water users and SWFWMD collaborate to increase understanding of the aquifers**
- **Continue to promote water conservation opportunities within the planning area**

Conclusion



- The future water demands of the region can be met through the 2035 planning horizon with appropriate management and continued development of available groundwater sources
- Additional water from Lake Okeechobee from operational flexibility within the existing LORS08 schedule, or a revised regulation schedule subsequent to HHD repairs could return the Lake to an MFL prevention status, enhance existing permitted users level of service and support environmental needs

What's Next?

<i>February</i>	<i>Initial WRAC Discussion</i>
<i>Feb - Mar</i>	<i>Individual stakeholder meetings</i>
<i>April 16</i>	<i>Kick-off public workshop</i>
<i>July 9</i>	<i>2nd public workshop</i>
July 10	GB informational presentation
July 24	Deadline for comments on Draft Plan
August 7	SFWMD WRAC presentation
September 4	SFWMD WRAC presentation
September 11	SFWMD Governing Board Approval

