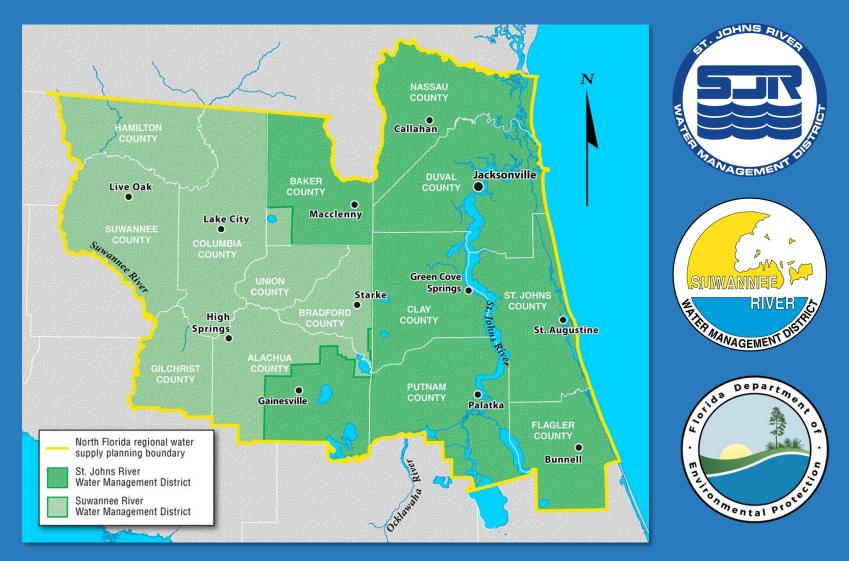
St. Johns River Water Management District

Update on the Draft North Florida Regional Water Supply Plan

September 9, 2016 2016 EPB/UNF Environmental Symposium

John Fitzgerald Regional Water Supply Planning Coordinator North Florida Regional Water Supply Partnership **St. Johns River Water Management District**

North Florida Regional Water Supply Partnership



34 Stakeholder Advisory Committee Meetings

Stakeholder Group	SJRWMD Member	SRWMD Member	
Public Supply	Rick Hutton, P.E. Gainesville Regional Utilities	Stephen Roberts Lake City Utilities	
Agriculture	Kerry Kates Florida Fruit and Vegetable Association	Thomas Harper Harper Farms	
Commercial/Power Generation	Nancy Kilgo Veasey <i>JEA</i>	James Cornett Cornett's Spirit of the Suwannee, Inc.	
Environmental	Patrick T. Welsh, Ph.D. UNF and Save Our Lakes	Jacqui Sulek Audubon Florida	
Industrial/Mining	J. Michael O'Berry Vulcan Materials Company	Terry L. Baker, P.E. PotashCorp – Phosphate Division	
Local Government	Lee Pinkoson <i>Commissioner, Alachua County</i>	Gene Higginbotham Commissioner, Dixie County	

Outreach and Collaboration

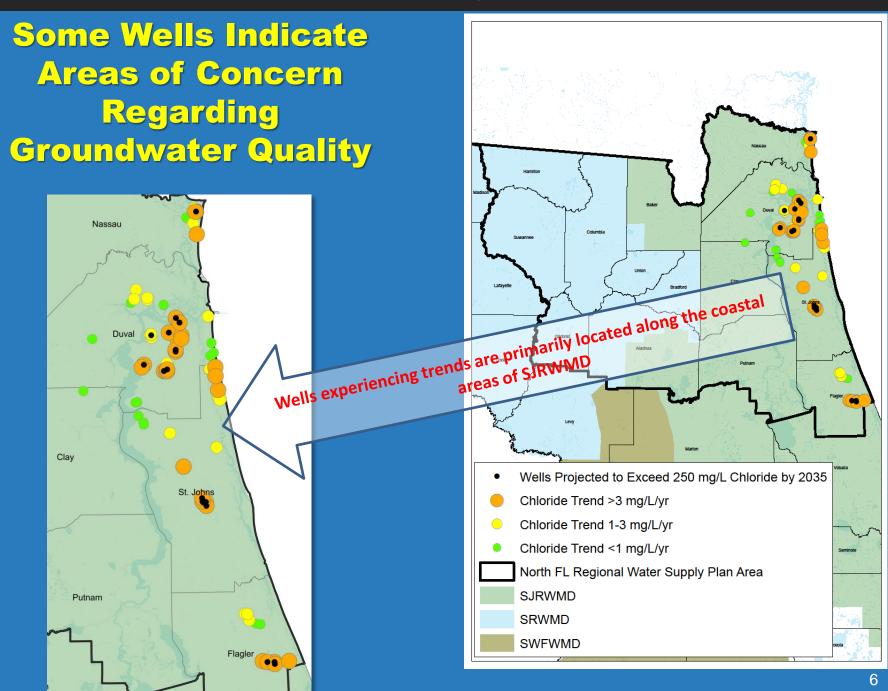


Water Resource Analysis

- Assessment of the amount of fresh groundwater available for water supply
- Determine impacts to water resources (i.e. constraints)
 - groundwater
 quality
 - wetlands
 - MFLs
 - spring flows



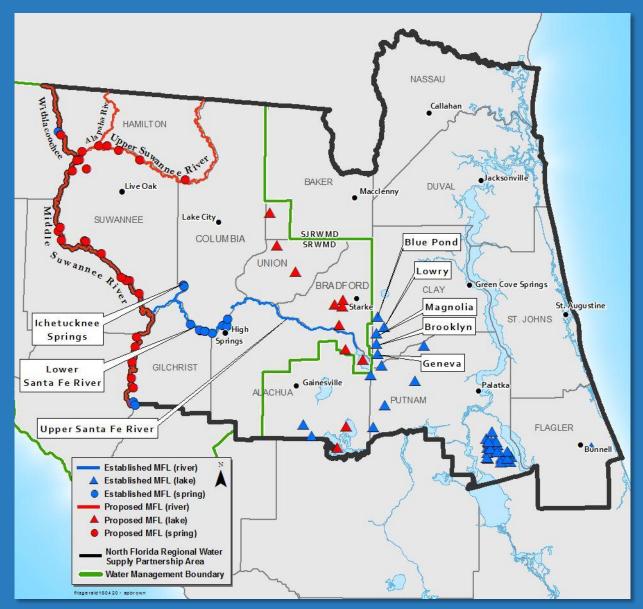
St. Johns River Water Management District

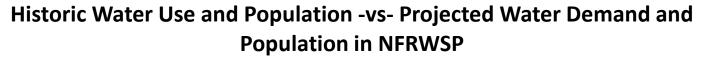


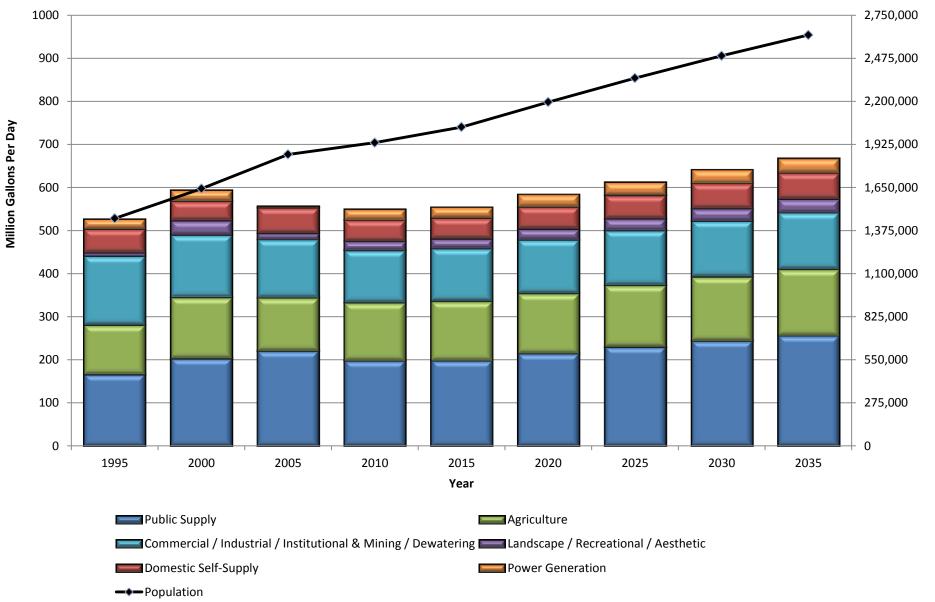
North Florida — Springs Heartland



MFLs in and near the NFRWSP







Water Use and Draft Projections for the NFRWSP Area

Category	2010	2035	Change	% Change
Public Supply	198	256	58	29
Domestic Self-Supply and Small Utilities	49	61	12	24
Agriculture	135	153	18	13
Commercial / Industrial / Institutional and Mining / Dewatering	121	132	11	9
Landscape / Recreation / Aesthetic	22	31	9	41
Power Generation	25	34	9	36
Total	550	667	117	21

Numbers may differ slightly due to rounding

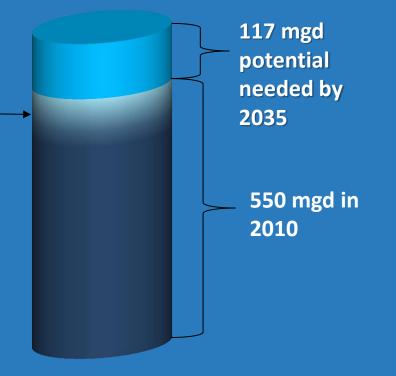
Values shown in million gallons per day. Values do not include NWFWMD, SWFWMD or Georgia

The Region's Challenge

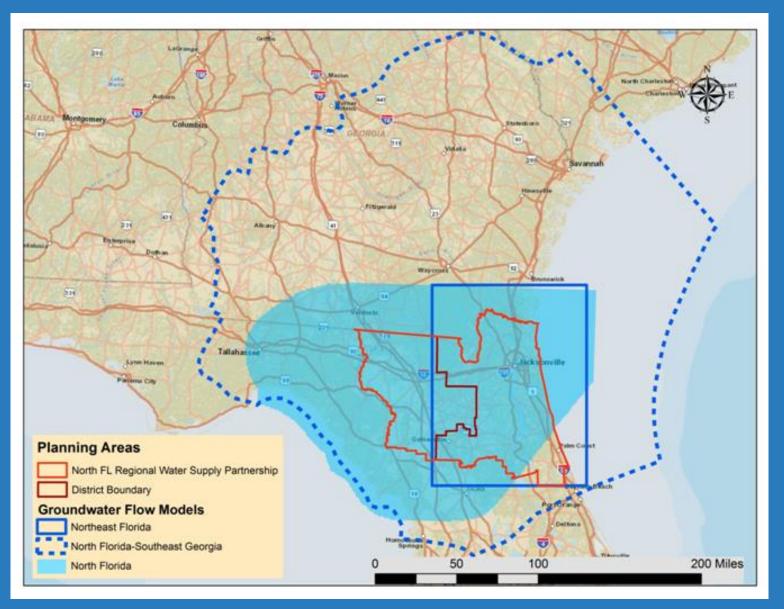
Estimate 667 mgd of water need at 2035

Range of recovery for the Lower Santa Fe and Ichetucknee MFLs

Currently modeling efforts are underway to estimate the available groundwater to meet future demands.



NFSEG Model Overview



Opportunities and Solutions

- Water conservation
- Recharge
- Alternative water supply
 - Surface water
 - Stormwater harvesting
 - Reuse
- Collaboration





Water Conservation





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 Means with iddness
 Neuroscience
 Neuroscience

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Place your logo and contact information here. Mandatory lawn watering restrictions specify the days when you may water. These days depend on whether your address ends in an odd or even number, and on the time of year. So unless your day and number are up, make sure those sprinklers stay down.

Additional restrictions include:

 Water only when needed and not between 10 am, and 4 pm. Water for no more than one hour per zene. Retrictions apply to water from private wells and pumps, ground or surface water and water from publicand private utilities. Some exceptions apply, such as use of micro-impaintion or a hand- water group of charactal and eritistics, and use of neuroimpaint water light of charactal and eritistics, and use of neuroimpaint water check with your water supplier to see if restrictions are in place for rectanding water in your area.



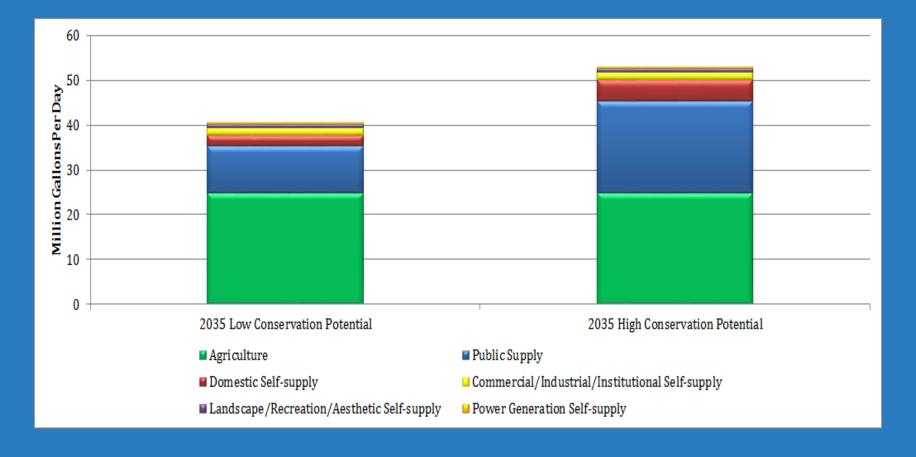
- Outdoors
- Rates
- Education



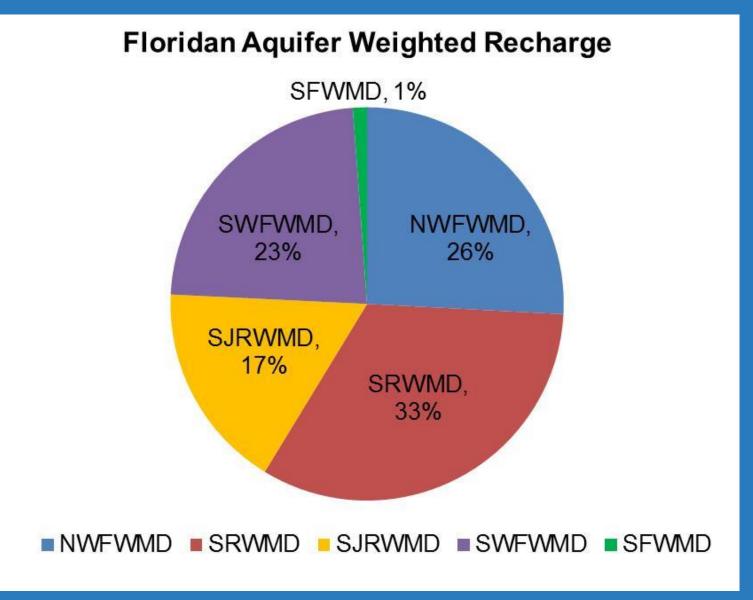




2035 Low and High Conservation Potential



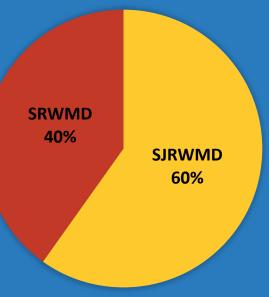
Recharge to Floridan Aquifer



Recharge in partnership area



Acreage in partnership area



St. Johns River Water Management District

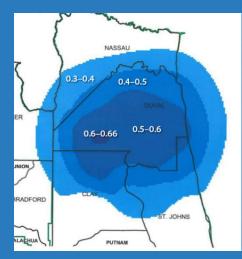
Diversification of Water Supplies: Excess Surface Water or Storm Water



Reuse Options



Augmentation of surface waters used for irrigation





Recharge

Potable reuse Rebound (in feet) for 10 MGD injection

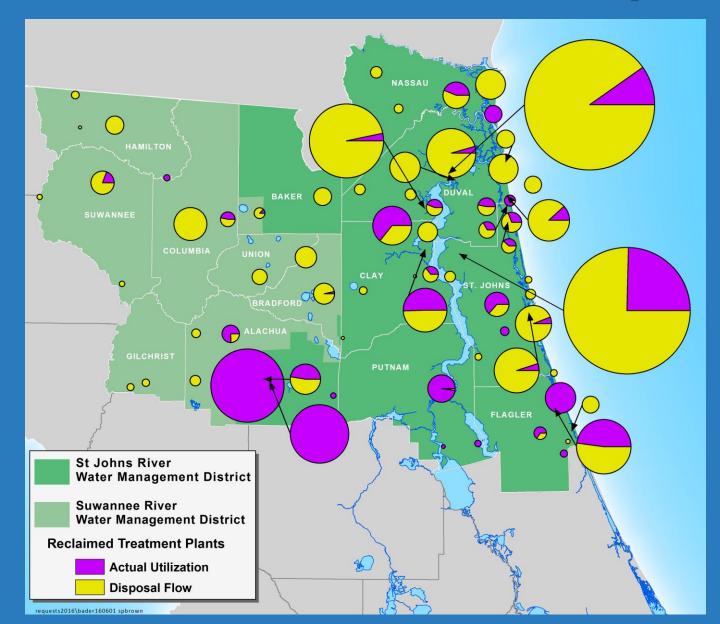


Landscape irrigation

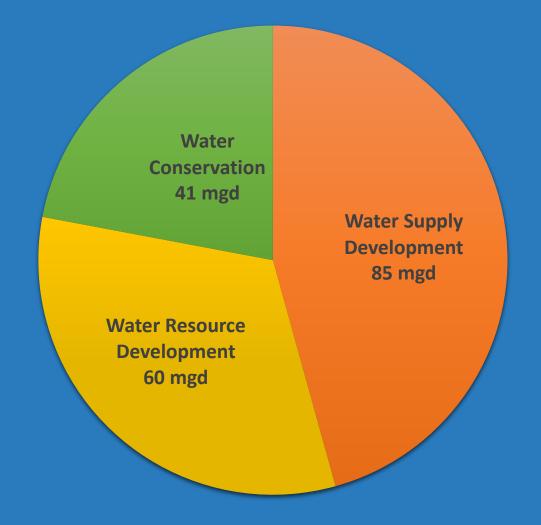


Golf course irrigation

2015 Reuse and Wastewater Disposal



Meeting Future Demands



Importance of Collaboration

- Meet needs of commercial, agricultural, environment and urban uses
- Meet needs of recreational and quality of life
- Business and community leader engagement is vital
- Working together to meet all the needs will ensure a vital economy





