



- 1. Welcome and Introductions
- 2. MFL Overview and Update
- 3. MFL Rule
- 4. Influence of Withdrawals
- 5. Projects
- 6. Strategy Overview
- 7. Public Comment





Minimum Flows and Minimum



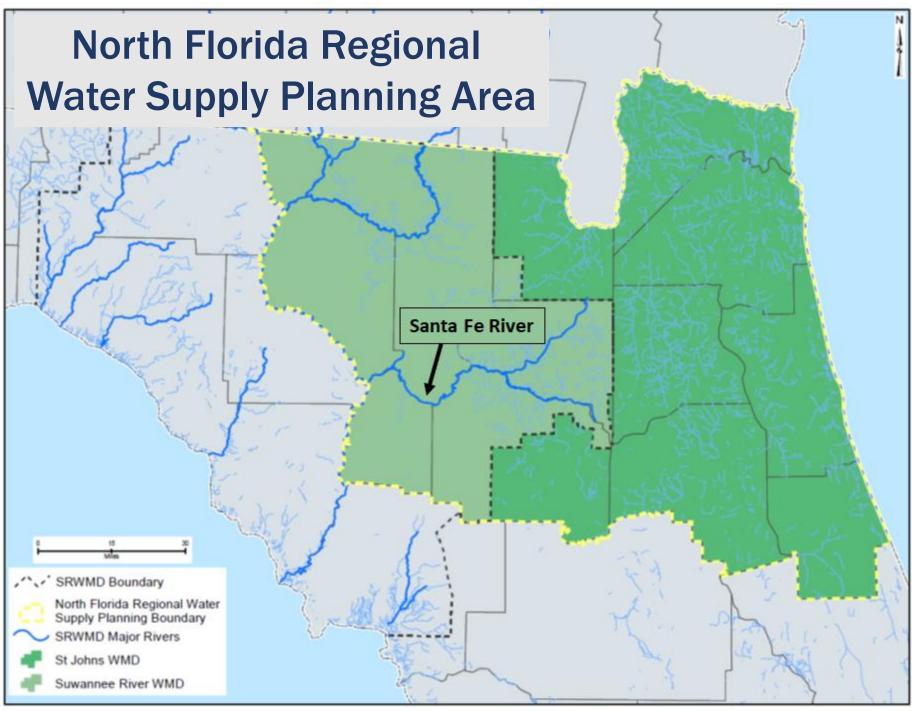
Water Levels (MFLs)

MFLs are required and defined by Florida Statutes in Section 373.042:

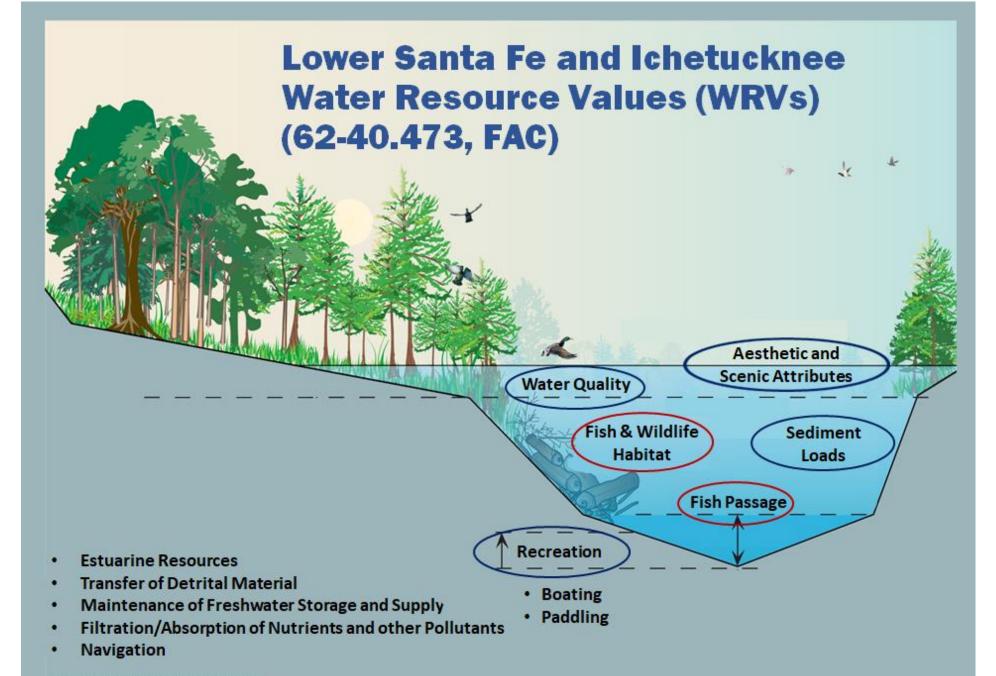
Minimum flows and minimum water levels...

...are the limit at which further withdrawals would be significantly harmful to the water resources or ecology of the area.



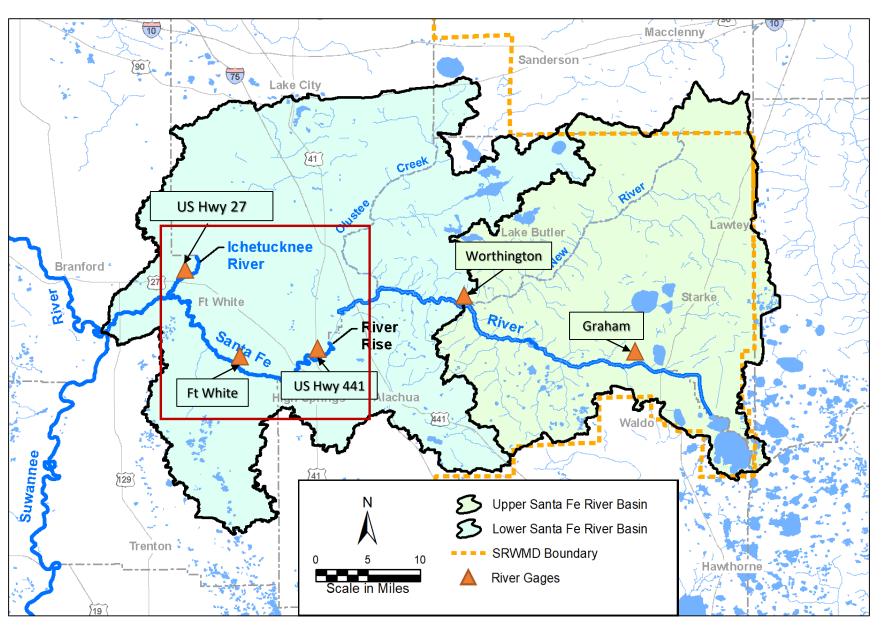






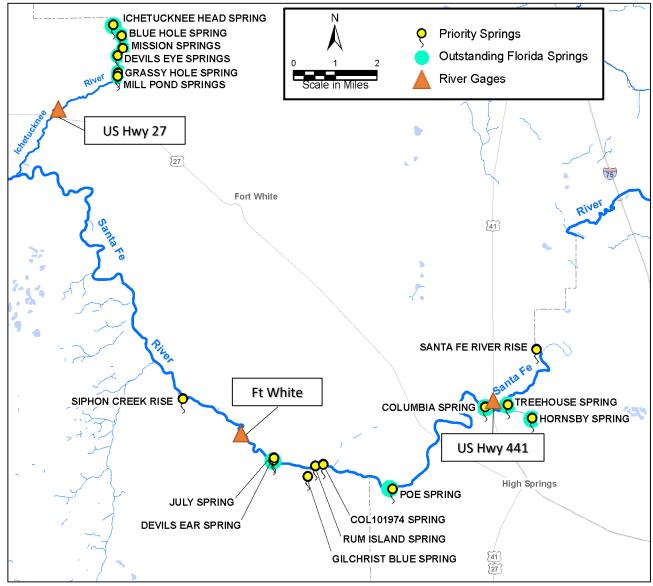


Santa Fe Basin Features





MFL River Gages and Priority & Outstanding Florida Springs





Proposed MFLs for the Lower



Santa Fe and Ichetucknee Rivers

	Lower Santa Fe River				Ichetucknee River	
	Fort White		US Hwy 441		US Hwy 27	
	Proposed	Existing	Proposed	Existing	Proposed	Existing
Reference Flow (cfs)	1,270	1,320	552	n/a	356	354
MFL (cfs)	1,167	1,214	502	n/a	346	343
Difference (cfs)	103	106	50	n/a	10	11
Difference (mgd)	66.6	68.5	32.3	n/a	6.5	7.1
Relative flow reduction (%)	8.1%	8.0%	9.1%	n/a	2.8%	3.1%

Note: Median daily values

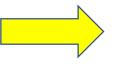


MFL not met



Recovery Strategy needed

MFL met, expected to fall below MFL during the next 20 years



Prevention Strategy needed

MFL met, expected to be met for next 20 years



No Recovery or Prevention Strategy needed

Status by River Gage (cfs)

	Lower Santa Fe	Lower Santa Fe	Ichetucknee
	Fort White	US441	Hwy 27
Reference Less MFL	103	50	10
Current 2015 Impact	70.7	48.9	15.4
Current 2015 Net	32.3	1.1	-5.4
Projected 2040 Impact	106	71.5	24.0
Projected 2040 Net	-3	-21.5	-14.0

Note: Median daily values





62-42.200 Definitions

Deletes Flow duration Curve and Frequency

Adds P50 Flow and citation for Outstanding Florida Spring

62-42.300 Minimum Flows and Levels and Prevention and Recovery Strategies Strikes paragraph (1)(a) through (e) of existing rule

Proposes MFL for LSFIR and Priority Springs

Incorporates by reference the regulatory component of a Prevention and Recovery Strategy



Minimum Flows for the Lower Santa Fe and Ichetucknee Rivers and Priority Springs are the P50 flows based on the simulated MFL condition flow time series data (1933-2015) at the United States Geological Survey (USGS) gages identified in Table 1-2 below. The simulated MFL condition flow time series data (1933-2015) is incorporated by reference herein and available at [https://www.flrules.org/gateway/reference.asp?No=Ref-XXXXXX] [effective date] or by contacting the Florida Department of Environmental Protection, Office of Water Policy and Ecosystems Restoration, 3900 Commonwealth Blvd., MS-35, Tallahassee, FL 32399.

Table 1-2 Minimum Flows for the Lower Santa Fe and Ichetucknee Rivers						
<u>Watercourse</u>	Location/Gage	P50 Flow (Minimum Flow) in				
		cubic feet per second (cfs)				
Lower Santa Fe River and Poe Spring, COL101974 Spring, Rum	Lower Santa Fe River at the Ft. White, FL gage/USGS Gage No. 02322500	<u>1,167</u>				
Island Spring, Gilchrist Blue Spring, Devil's Ear Spring, July						
Spring and Siphon Creek Rise						
Lower Santa Fe River and Santa Fe River Rise, Treehouse	Lower Santa Fe River at the HWY 441 gage/USGS Gage No. 02321975	<u>502</u>				
Spring, Hornsby Spring and Columbia Springs						
Ichetucknee River (Ichetucknee Springs Group)	Ichetucknee River at the HWY 27 gage/USGS Gage No. 02322700	<u>346</u>				

The proposed rule addresses status assessment and will incorporate the applicable recovery and prevention strategy.



Recovery and Prevention Strategy requirements

- Must include development of additional water supplies
- Must achieve recovery as soon as practicable OR prevent the flow from falling below the MFL
- Must include phased-in approach/timetable
- Must allow for sufficient water supplies for all existing and projects reasonable-beneficial uses (AWS, Conservation, Efficiency upgrades) to offset reductions in permitted withdrawals to the maximum extent practical

Currently developing Updated Prevention and Recovery Strategy

2015 strategy focused on the implementation of the preliminary regulatory strategies to
protect the MFL water bodies from additional harm, creation of water resource development
project concepts, and the implementation of water conservation measures.



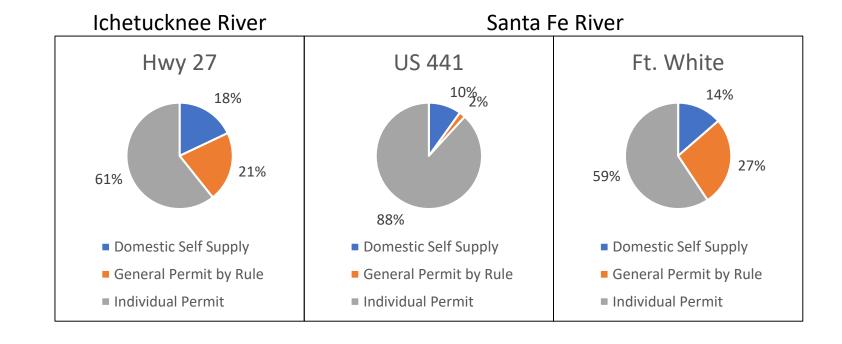
OFS Statute requires, at a minimum:

- List and prioritization of specific projects
- Cost estimates and dates of completion
- Source and amount of financial assistance
- Estimate of benefits for each listed project
- Implementation plan and target to achieve the MFL no more than 20 years after the adoption of a recovery or prevention strategy



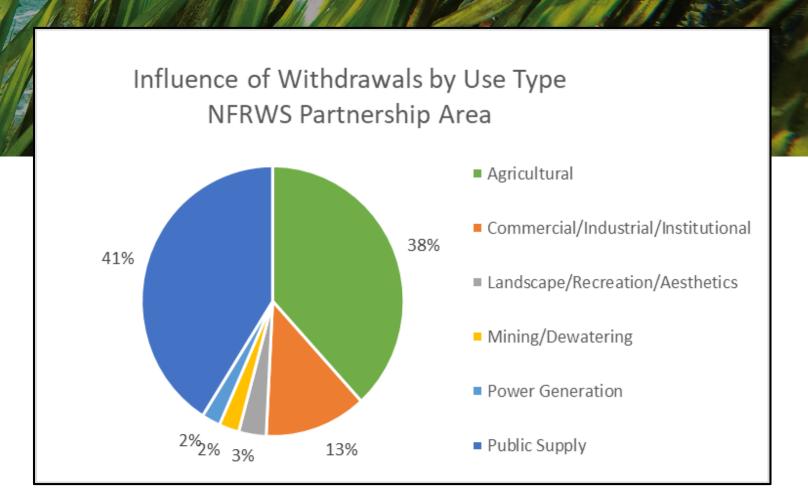


- Ichetucknee Hwy 27
 - Partnership Area ~ 82%
 - Non-partnership Area ~ 18%
- Santa Fe US 441
 - Partnership Area ~ 86%
 - Non-partnership Area ~ 14%
- Santa Fe Ft. White
 - Partnership Area ~ 87%
 - Non-Partnership Area ~ 13%



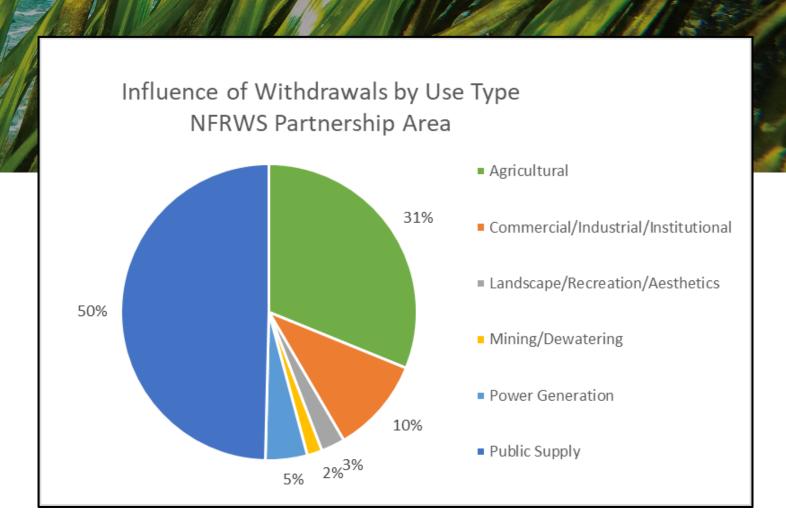


Influence of Withdrawals by use type Ichetucknee



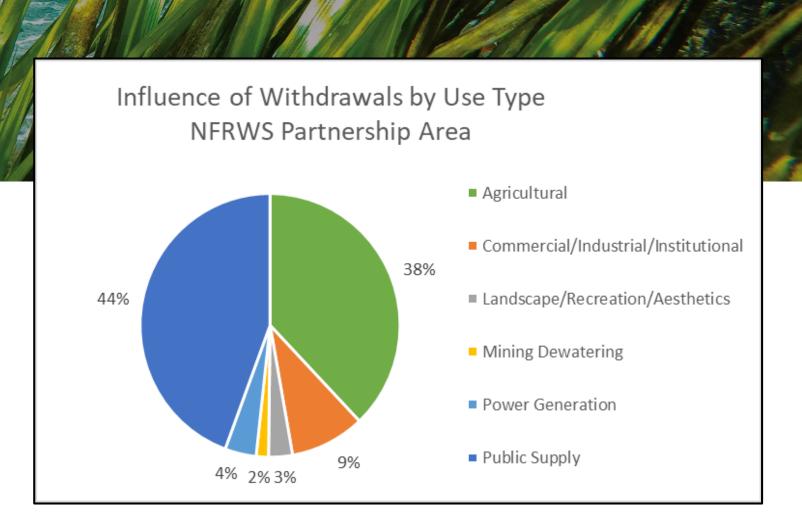


Influence of Withdrawals by use type Santa Fe 441





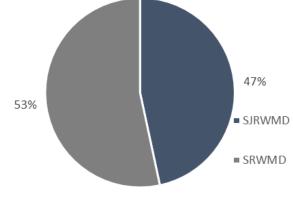
Influence of Withdrawals by use type Santa Fe Ft. White



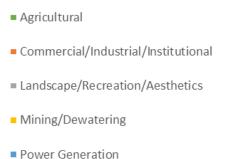


Influence of Water Use by District by Use Type Ichetucknee

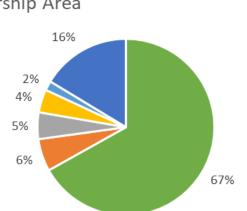
Influence of Withdrawals NFRWS Partnership Area



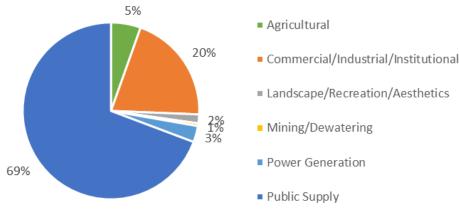
Influence of Withdrawals SRWMD NFRWS Partnership Area



■ Public Supply



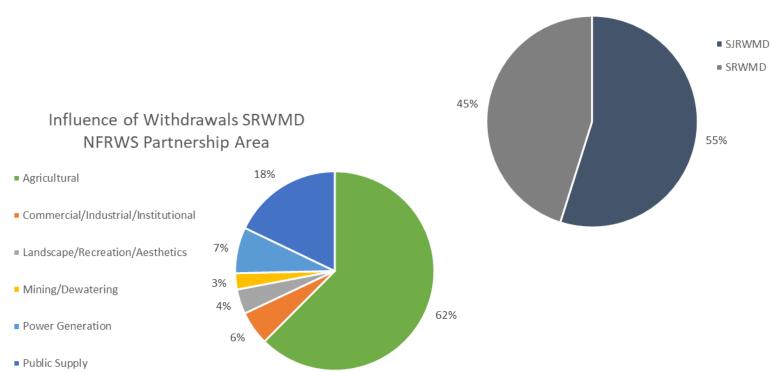
Influence of Withdrawals SJRWMD NFRWS Partnership Area

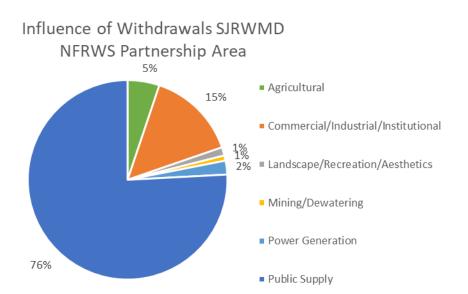




Influence of Water Use by District by Use Type Santa Fe – US 441



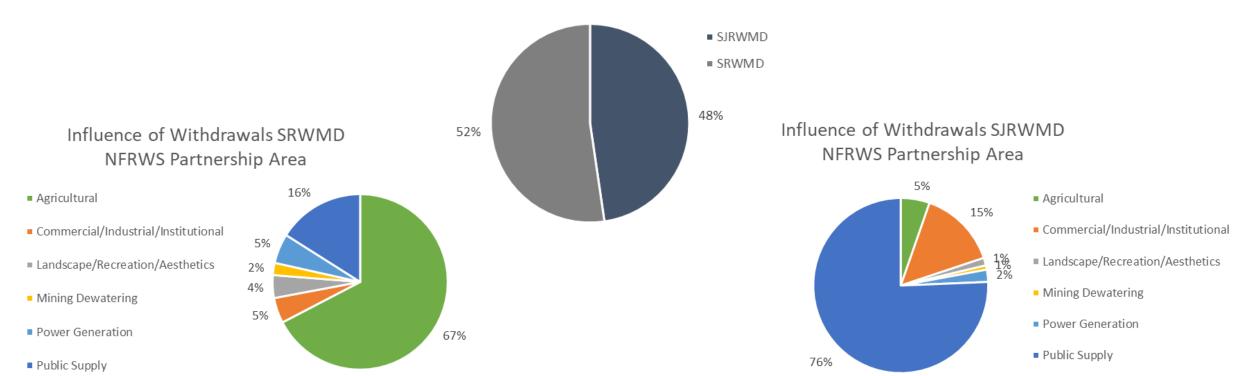






Influence of Water Use by District by Use Type Santa Fe - Ft White

Influence of Withdrawals NFRWS Partnership Area







Project Concepts





 Public Supply and Commercial Industrial Institutional

Water conservation

Florida-friendly™ landscaping

Stormwater harvesting

- Potable reuse
- Reclaimed water
- Treatment Wetlands
- Recharge





Project Concepts





- Agriculture
 - Accelerating Suwannee Program
 - Efficiency improvements (such as soil moisture sensors, pivot retrofits, centralized remotecontrol systems)
- Forest Management for Ecosystem Services
 - Manage forests to increase groundwater recharge





Project Concepts



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Status and the Development of a Strategy

- Will apply best available information throughout rule development
- Rule development will include the regulatory portion of a strategy with both recovery and prevention components
- Objectives in developing a strategy:
 - Meet statutory requirements including OFS Statute
 - Recovery based on proportionate share of impacts
 - Must provide for protection of the resource and reasonable-beneficial uses of water



- Review all public comments
- Review any project option suggestions
- Develop Regulatory Strategy language to be presented at a future workshop



Public Comment

Participants will be given 3 minutes to make their comments.

Written comments may be submitted to the email address below.

3:00 minutes 3:00

www.floridadep.gov/water-policy OWP_rulemaking@floridadep.gov

Please submit public comments by November 4