

Joint Public Workshop 2017 Draft Minimum Flows and Levels and Water Reservations Priority List and Schedule For the CFWI Area

St Johns River Water Management District
Southwest Florida Water Management District
South Florida Water Management District

September 27, 2017

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Management District*

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Management District*

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Management District*

2017 Draft Priority List and Schedule

Agenda

1. Introductions.....Andrew Sutherland, SJRWMD
2. **SJRWMD** 2017 Draft Priority List & Schedule.....Andrew Sutherland
3. **SWFWMD** 2017 Draft Priority List & Schedule.....Doug Leeper
4. **SFWMD** 2017 Draft Priority List & ScheduleDon Medellin
5. Stakeholder comments
6. Adjourn

2017 Draft Priority List and Schedule

Statutory Directive for MFLs

**Water management districts or DEP
must establish MFLs that set...**

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

Section 373.042(1), Florida Statutes (F.S.)

2017 Draft Priority List and Schedule

Statutory Directive for Reservations

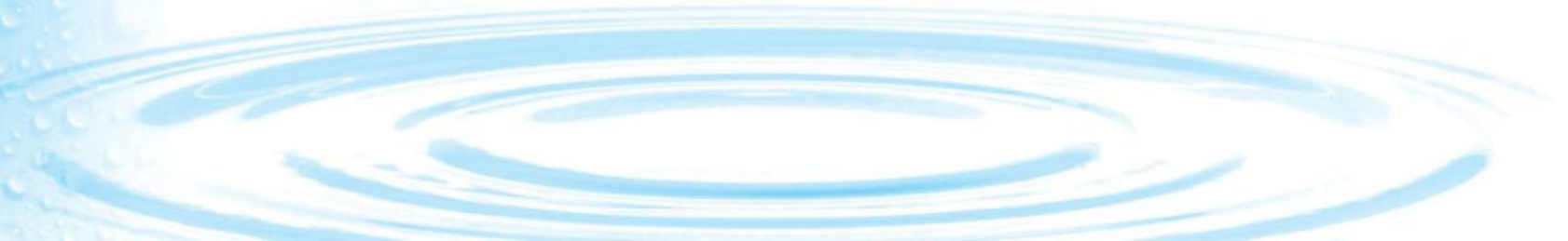
**Water management districts or DEP
may...**

***"...reserve from use by permit
applicants, water in such locations and
quantities, and for such seasons of the
year, as in its judgment may be required
for the protection of fish and wildlife or
the public health and safety.."***

Section 373.223(4), Florida Statutes (F.S.)

Priority List and Schedule Meets Statutory and Rule Requirements

- It is based on the importance of waters to the State or region, and the existence of or potential for significant harm
- Waters experiencing or reasonably expected to experience adverse impacts are included
- Water bodies for which the district will voluntarily undertake independent scientific peer review are identified
- Proposed reservations are identified
- Listed water bodies that have the potential to be affected by withdrawals in an adjacent water management district are identified



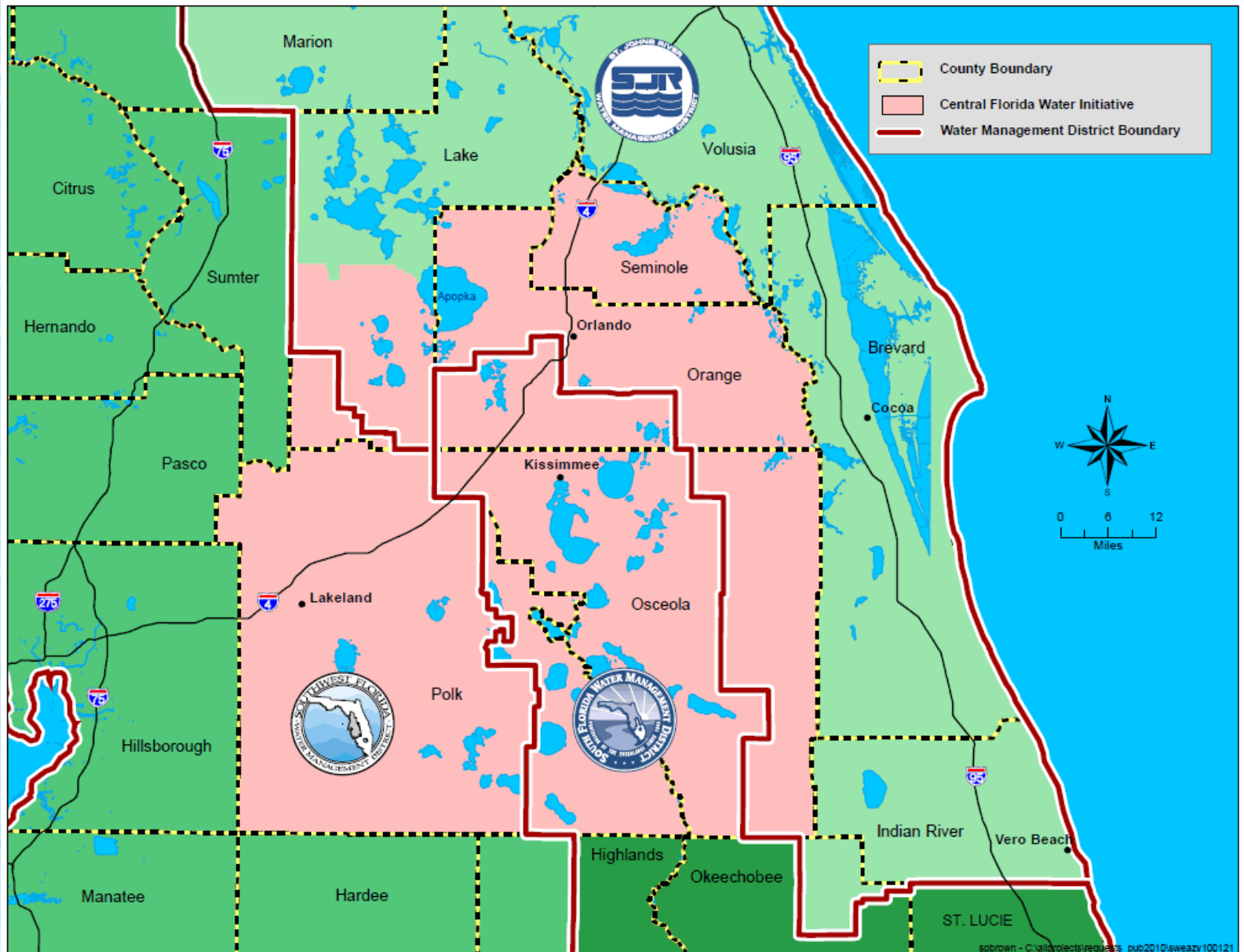
2017 Draft Priority List and Schedule

- Required by statute to create annual priority list and schedule for DEP review and approval
- Priority Lists will be presented to respective District Governing Boards for approval
- Districts are seeking stakeholder input on the priority list and schedule

Comments

- **SJRWMD:** Oct. 20, 2017 *Andrew Sutherland - asutherl@sjrwmd.com*
- **SWFWMD:** Oct. 6, 2017 *Doug Leeper - doug.leeper@swfwmd.state.fl.us*
- **SFWMD:** Oct. 6, 2017 *Don Medellin - dmedelli@sfwmd.gov*

CFWI Area



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SJRWMD
2017 Draft Priority List
and Schedule

SJRWMD 2017 Draft Priority List and Schedule

23 systems on 2016 list

- 4 OFSs adopted**
 - Silver Springs
 - Silver Glen Springs
 - Alexander Springs
 - Gemini Springs
 - 1 Bugg Spring (US Navy Property)**
 - + 1 Lake Weir**
-

19 MFLs – 2017 list

Central Florida Water Initiative

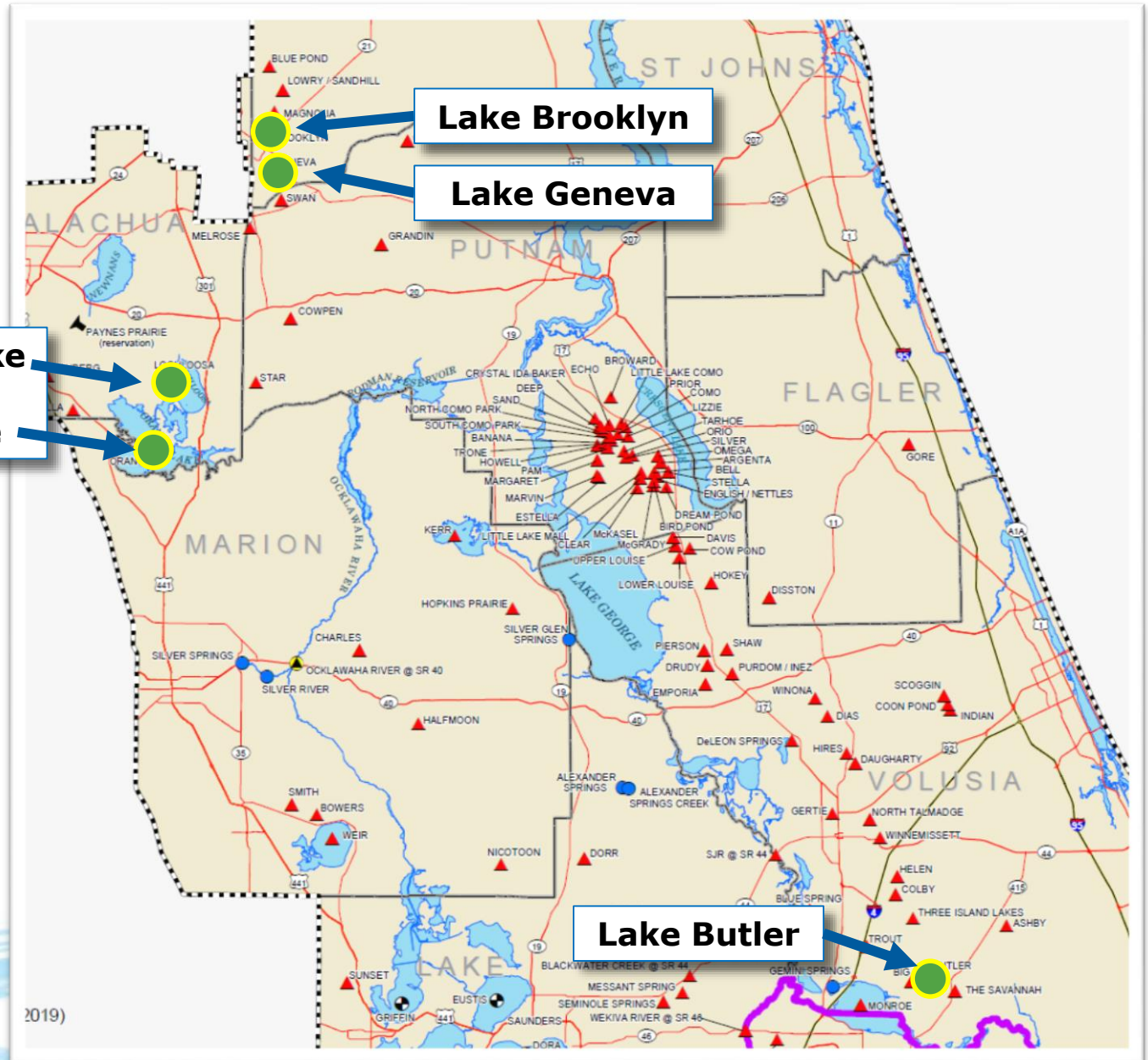
2018

**Lochloosa Lake
or
Orange Lake**

Lake Brooklyn

Lake Geneva

Lake Butler



Central Florida Water Initiative

Lake Brooklyn

Lake Geneva

Reason for Re-evaluation: SW modeling and frequency analysis revealed original criteria not appropriate

Previous Priority Year: 2017

Reason for Rescheduling: Allow for completion of groundwater models

Orange Lake or

Lochloosa Lake

Reason for Listing: Large, regionally important lakes; potential impacts from withdrawal

Previous Priority Year: 2018 – No Change

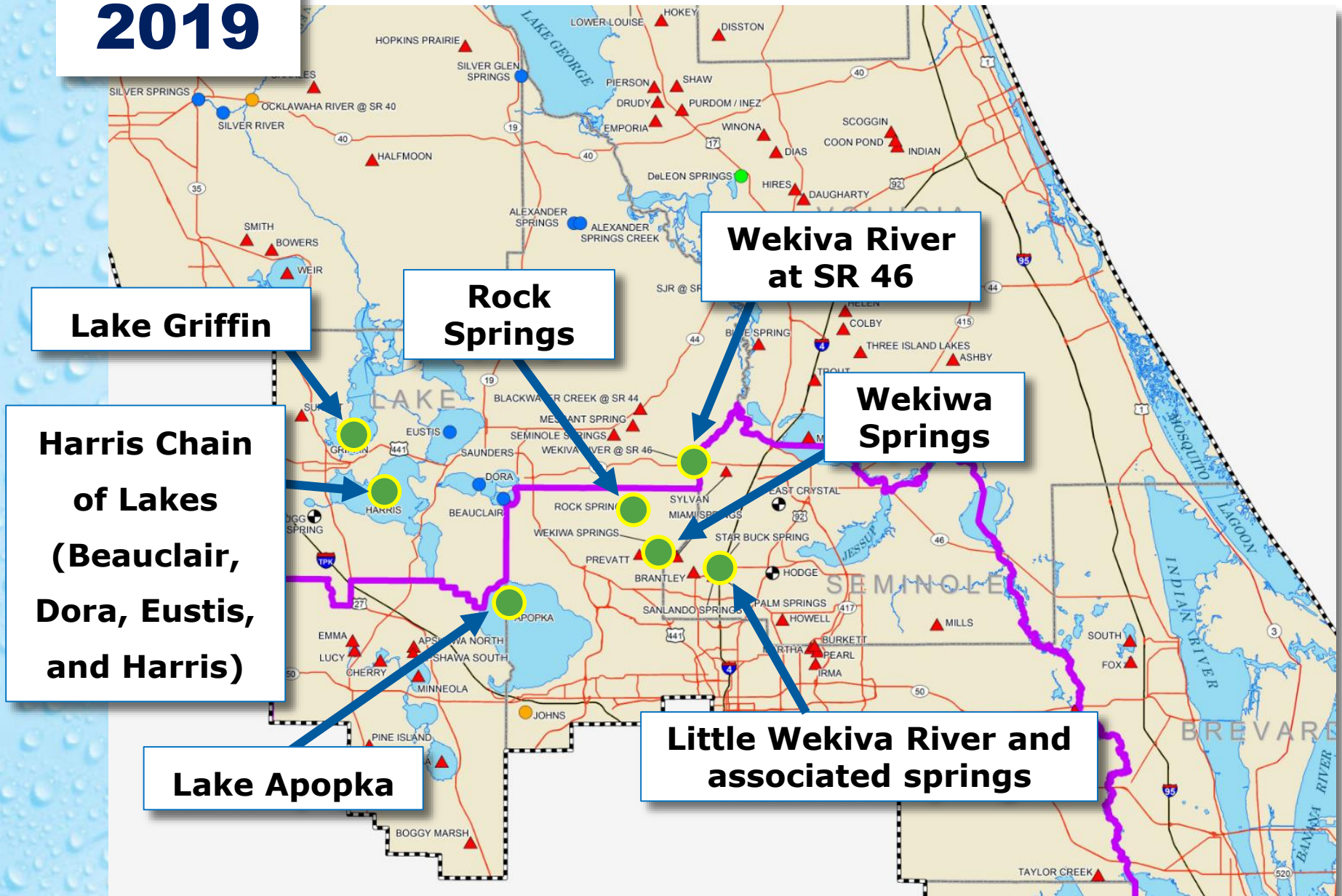
Lake Butler

Reason for Listing: Sentinel system in area with projected impact from withdrawal

Previous Priority Year: 2018 – No Change

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2019



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Lake Apopka
Lake Griffin
Harris Chain
(Beauclair, Dora,
Eustis and Harris)

***Reason for Listing: regionally important water bodies;
projected impact from withdrawal***

Previous Priority Year: 2019 – No Change

Wekiva River at SR46

***Reason for Reevaluation: regionally important water
body; projected impact from withdrawal***

Previous Priority Year: 2019 – No Change

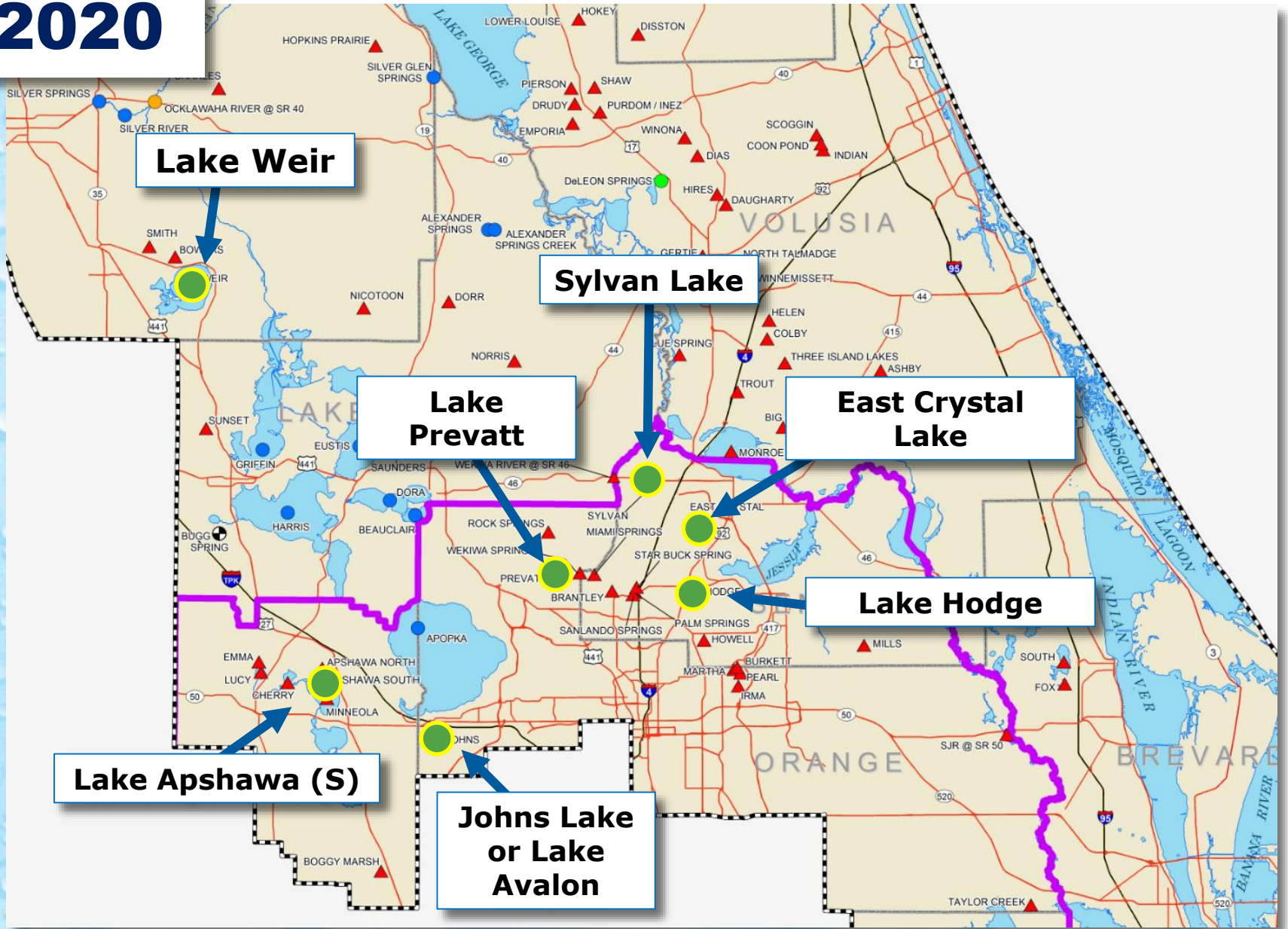
Wekiwa Springs
Rock Springs
Little Wekiva River
and associated
springs

***Reason for Listing: part of approach for reevaluating
Wekiva Basin Springs, based on near-by ecological
criteria***

Previous Priority Year: 2019 – No Change

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2020



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S. Apshawa Lake
Prevatt Lake

Reason for Reevaluation: SW modeling and frequency analysis revealed original criteria not appropriate

East Crystal Lake
Lake Hodge
Johns Lake or
Lake Avalon

Reason for Listing: identified as sentinel system during 2006 water supply planning process

All six lakes

Reason for Rescheduling: Moving to 2020 allows for balancing of resources, availability of peer reviewers and adequate review times for stakeholders

Previous Priority Year: 2019

Sylvan Lake

Reason for Re-evaluation: SW modeling and frequency analysis revealed original criteria not appropriate

Previous Priority Year: 2017

Reason for Rescheduling: Moving to 2020 allows for consistent assessment using ECFT-X groundwater model, and consistent peer review as part of CFWI process

Lake Weir

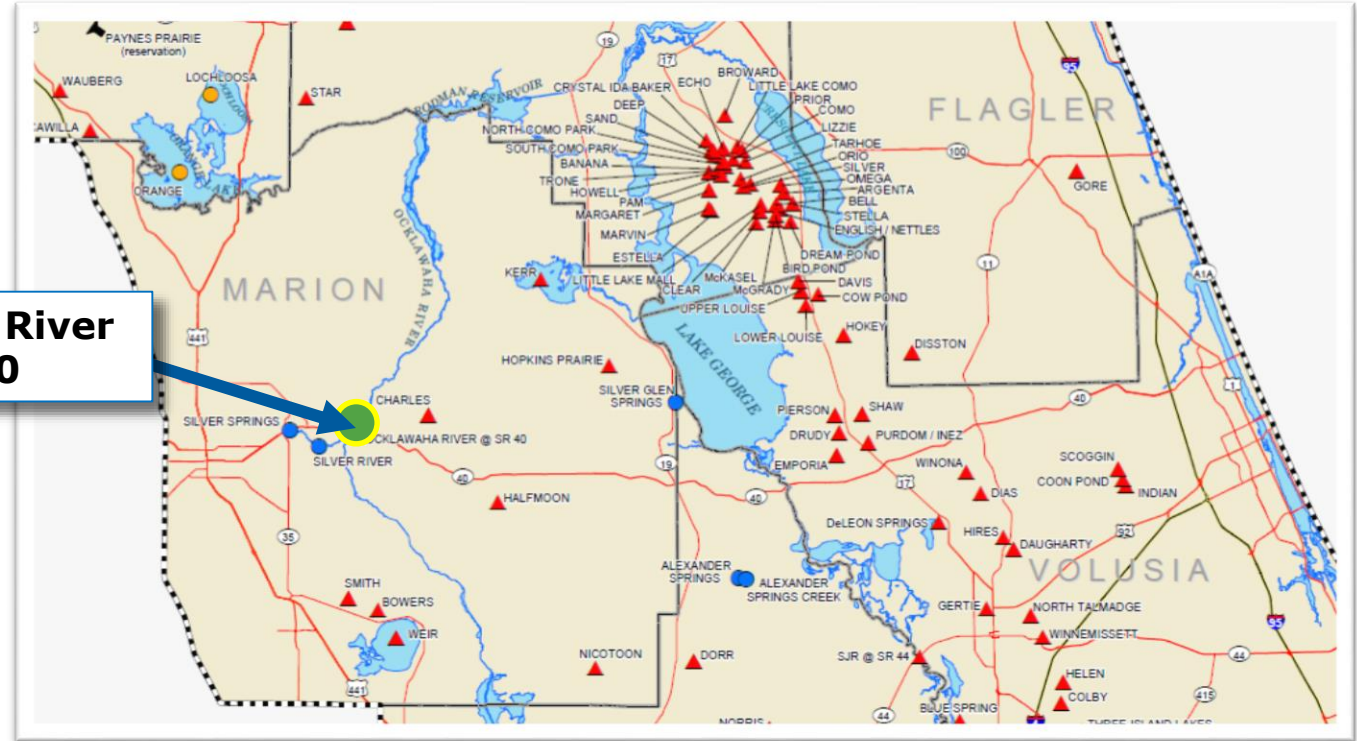
Reason for Re-evaluation: SW modeling and preliminary frequency analysis revealed original criteria not appropriate

Previous Priority Year: New

Central Florida Water Initiative

2021

**Ocklawaha River
at SR40**



Reason for Listing: regionally important water body; projected impact from withdrawal

Previous Priority Year: 2020

Reason for Rescheduling: Allow for completion of MFLs for upper Ocklawaha River Basin Lakes

SJRWMD 2017 Draft Priority List

	New or Re-Evaluation	Water Body Name	Waterbody Type	County
MFLs to be adopted in 2018	New	Butler	Lake	Volusia
	New	Lochloosa/Orange	Lake	Alachua
	Re-evaluation	Brooklyn	Lake	Clay
	Re-evaluation	Geneva	Lake	Clay
MFLs to be adopted in 2019	New	Little Wekiva River and associated springs*	River / Springs	Seminole/Orange
	New	Apopka*	Lake	Lake/Orange
	New	Griffin*	Lake	Lake
	New	Harris Chain of Lakes (Beauclair, Dora, Eustis, Harris)*	Lake	Lake
	Re-evaluation	Wekiva River at SR 46 Bridge*	River	Seminole/Lake
	Re-evaluation	Wekiwa Springs*	Springs	Seminole/Orange
	Re-evaluation	Rock Springs*	Springs	Orange
MFLs to be adopted in 2020	New	Johns/Avalon*	Lake	Orange
	New	East Crystal*	Lake	Seminole
	New	Hodge*	Lake	Seminole
	Re-evaluation	Apshawa South*	Lake	Lake
	Re-evaluation	Prevatt*	Lake	Orange
	Re-evaluation	Sylvan*	Lake	Seminole
	Re-evaluation	Lake Weir	Lake	Marion
MFLs to be adopted in 2021	New	Ocklawaha River at SR40	River	Marion

* CFWI MFLs

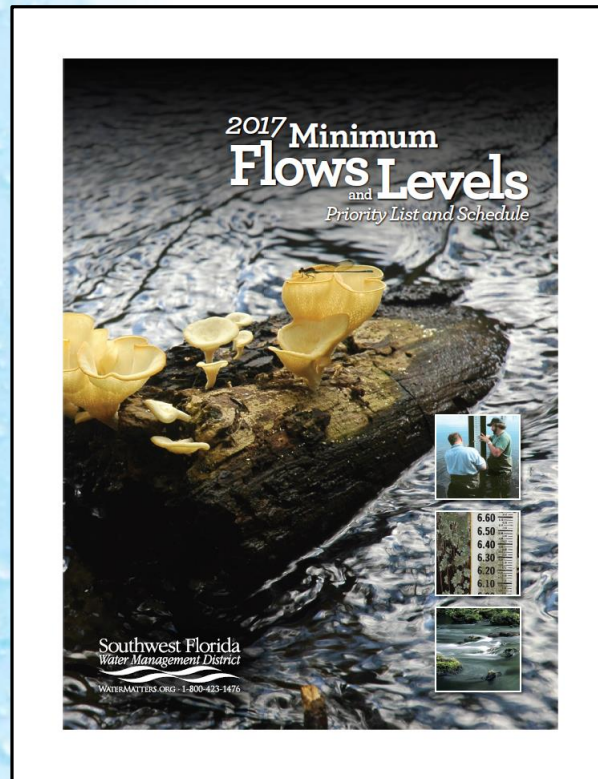
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SWFWMD
2017 Priority List and Schedule

Current and Proposed SWFWMD Priority List and Schedule Posted on the SWFWMD Web Site

- http://www.swfwmd.state.fl.us/projects/mfl/mfl_reports.php
- Includes priority water bodies scheduled through 2027

Current - 2017



Proposed - 2017 (2017-2018)

SOUTHWEST FLORIDA WATER MANAGEMENT PROPOSED 2017 (2017-2018) MINIMUM FLOWS AND LEVELS PRIORITY LIST AND SCHEDULE AND RESERVATIONS LIST AND SCHEDULE

Overview

Pursuant to Sections 373.026(7) and 373.042(3), Florida Statutes (F.S.), the District is required to annually update its priority list and schedule for the establishment of minimum flows and levels, submit the updated list and schedule to the Florida Department of Environmental Protection (DEP) by November 15th for approval, and include the approved list and schedule in the District's Consolidated Annual Report. Minimum flows and levels are rules established by the state water management districts or DEP that define the limit at which further withdrawals would be significantly harmful to the water resources or ecology of the area. Reservations are rules that reserve water from use by permit applications, as necessary for the protection of fish and wildlife or public health and safety.

This proposed 2017 (2017-2018) Minimum Flows and Levels Priority List and Schedule and Reservation List and Schedule (draft priority list) has been prepared by the Southwest Florida Water Management District to address statutory directives and guidance concerning minimum flow and level and water reservation prioritization included in Rules 62-40.473, and 62-40.474 within the State Water Resource Implementation Rule (Chapter 62-40, Florida Administrative Code (F.A.C.)). For submission to DEP, the final version of this priority list will be referred to as the 2017 priority list and schedule.

This draft priority list includes an itemization of priority water bodies with adopted and effective minimum flows and levels rules and a water body with an adopted an effective reservation. Water bodies with previously established minimum flows and levels that have been reevaluated and revised as necessary are identified. Water bodies that may be affected by withdrawals occurring in other water management districts of the state are also identified to support coordination of regulatory activities among the districts. In accordance with Section 373.042(3), F.S., the draft priority list includes all first magnitude springs and all second magnitude spring within state or federally owned lands purchased for conservation purposes. The listings provided here for established minimum flows and levels and reservations do not supersede information incorporated into District Water Levels and Rates of Flow (Chapter 40D-8, F.A.C.) and Consumptive Use of Water (Chapter 40D-2, F.A.C.) rules.

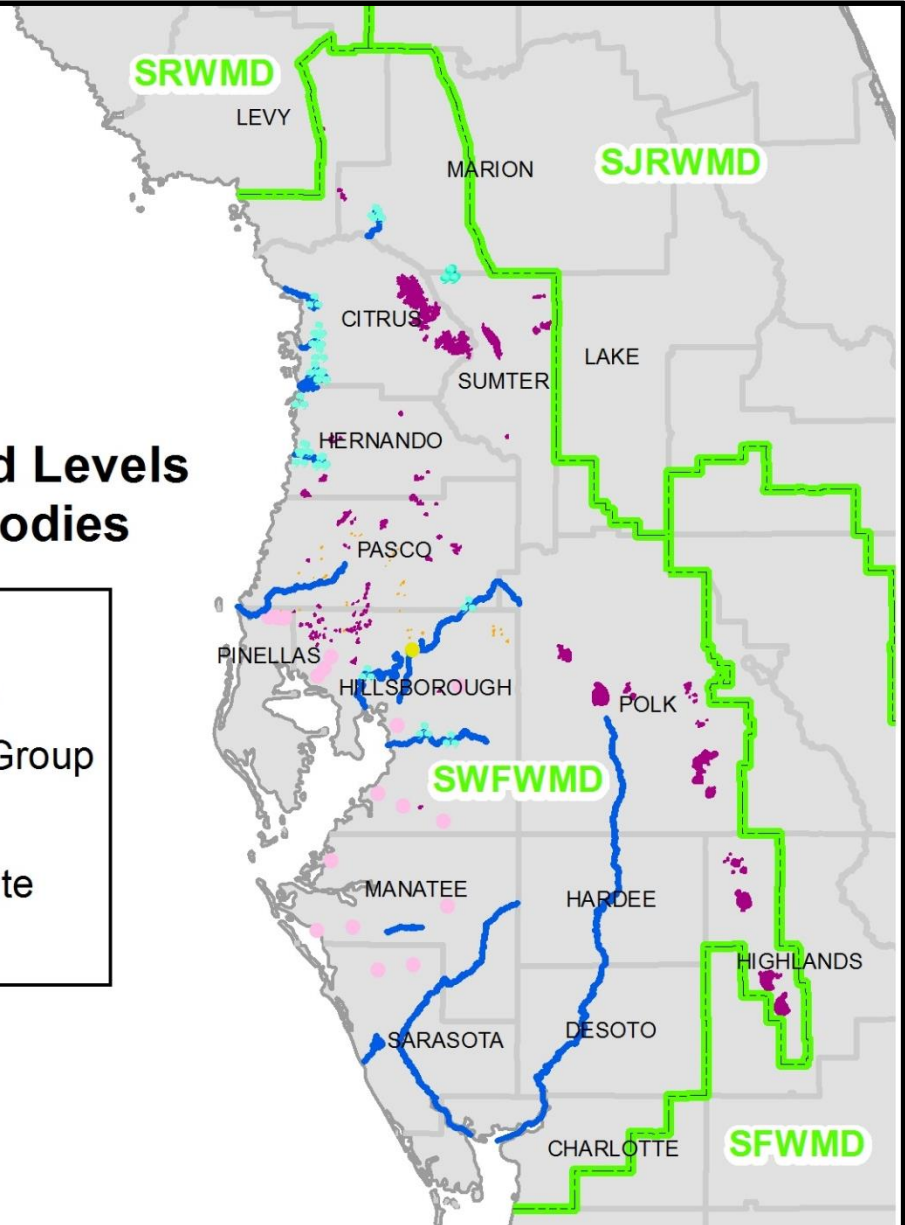
Proposed minimum flows and levels and reservations are provided in tabular form in this draft priority list. The table includes information on water body type (lake, wetland, river, aquifer, spring and as appropriate, spring magnitude, which is associated with the rate of spring discharge. Water body location information, including county, basin and latitude/longitude values are also provided. The District's initial intent regarding completion of voluntary, independent, scientific peer review is identified. All proposed spring and river segment minimum flows and levels will be subjected to voluntary scientific peer review based on the expected level of complexity of the minimum flows and levels and the anticipated degree of public concern regarding the minimum flows and levels. None of the proposed lake minimum flows and levels are expected to be subjected to voluntary scientific peer review based on anticipated use of previously peer reviewed methodologies for development of the minimum flows and levels. Listed water bodies that may be affected by withdrawals occurring in other water management districts, i.e., are potentially subject to cross-boundary impacts are identified. These listings are not intended as a request for the adoption of a minimum flow or level by the DEP pursuant to Section 373.042(1), F.S.

Central Florida Water Initiative

SWFWMD Adopted Minimum Flows and Levels/Reservations

Adopted Minimum Flows and Levels and Reservations Water Bodies

- Minimum Lake Level Site
- Minimum Flow River Segment
- Minimum Flow Spring/Spring Group
- Minimum Wetland Level Site
- Minimum Aquifer Level Well Site
- Reservation Site



Changes to the SWFWMD Priority List and Schedule

- Newly completed/reevaluated minimum flows and levels are identified
 - 4 Highlands County lakes (Jackson, Little Jackson, Letta, Lotela)
 - 7 Hillsborough County lakes (Dan, Horse, Juanita, Little Moon, Merrywater, Rainbow, Sunset)
 - 5 Pasco County lakes (Big Fish, Buddy, Crews, Moon, Pasadena)
 - 7 Polk County lakes (Clinch, Crooked, Eagle, Hancock,, McLeod, Starr, Wales)
 - Crystal River/Kings Bay Spring Group
 - Rainbow River/Rainbow Spring Group
- No “new” water bodies are added
- Names changed for several water bodies to improve list clarity and enhance state-wide consistency
- Northern Tampa Bay wetlands scheduled for reevaluation in 2019 are named
- Several water bodies are newly identified for reevaluation
 - 5 Hillsborough County lakes (Calm, Charles, Church, Echo, Sapphire) in 2019
 - 1 Pasco County lake (Linda) in 2019
 - 20 Northern Tampa Bay wetlands in 2020
 - Crystal River/Kings Bay Spring Group in 2027
 - Rainbow River/Rainbow Spring Group in 2027
- Several water bodies are rescheduled
 - Lower Braden and lower Manatee rivers from 2017 to 2018
 - Lower Withlacoochee River and 3 Upper Withlacoochee River from 2020 to 2021
 - Lake Hancock reservation from 2016 to 2018

SWFWMD Proposed Priority Water Bodies

Proposed Minimum Flows and Levels and Reservations Water Bodies

- Minimum Lake Level Site
- Minimum Flow River Segment
- Minimum Flow Spring/Spring Group
- Minimum Wetland Level Site
- Reservation Site

SRWMD

LEVY

MARION

SJRWMD

CITRUS

SUMTER

LAKE

HERNANDO

PASCO

SWFWMD

PINELLAS

HILLSBOROUGH

POLK

MANATEE

HARDEE

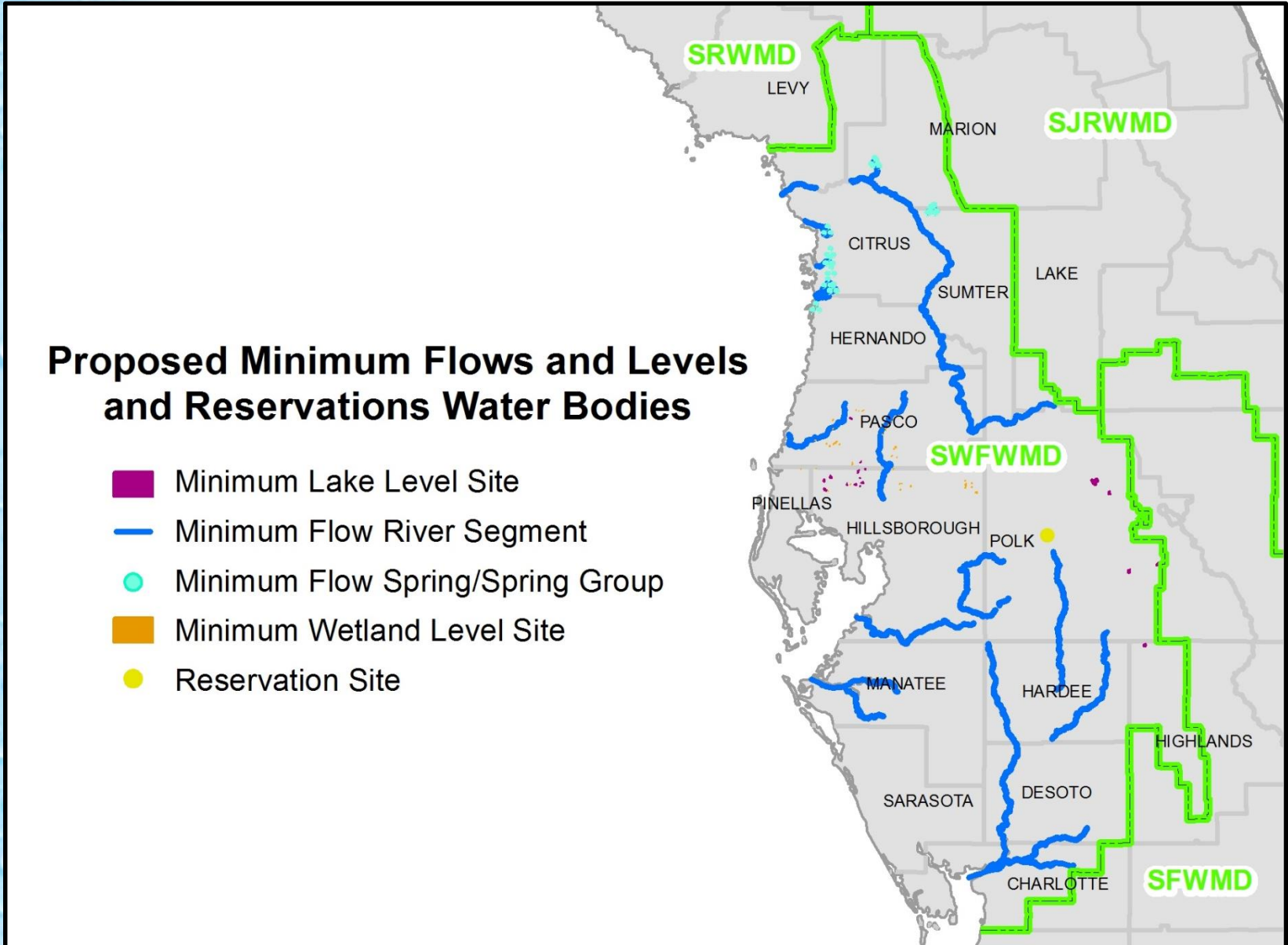
HIGHLANDS

SARASOTA

DESOTO

CHARLOTTE

SFWMD

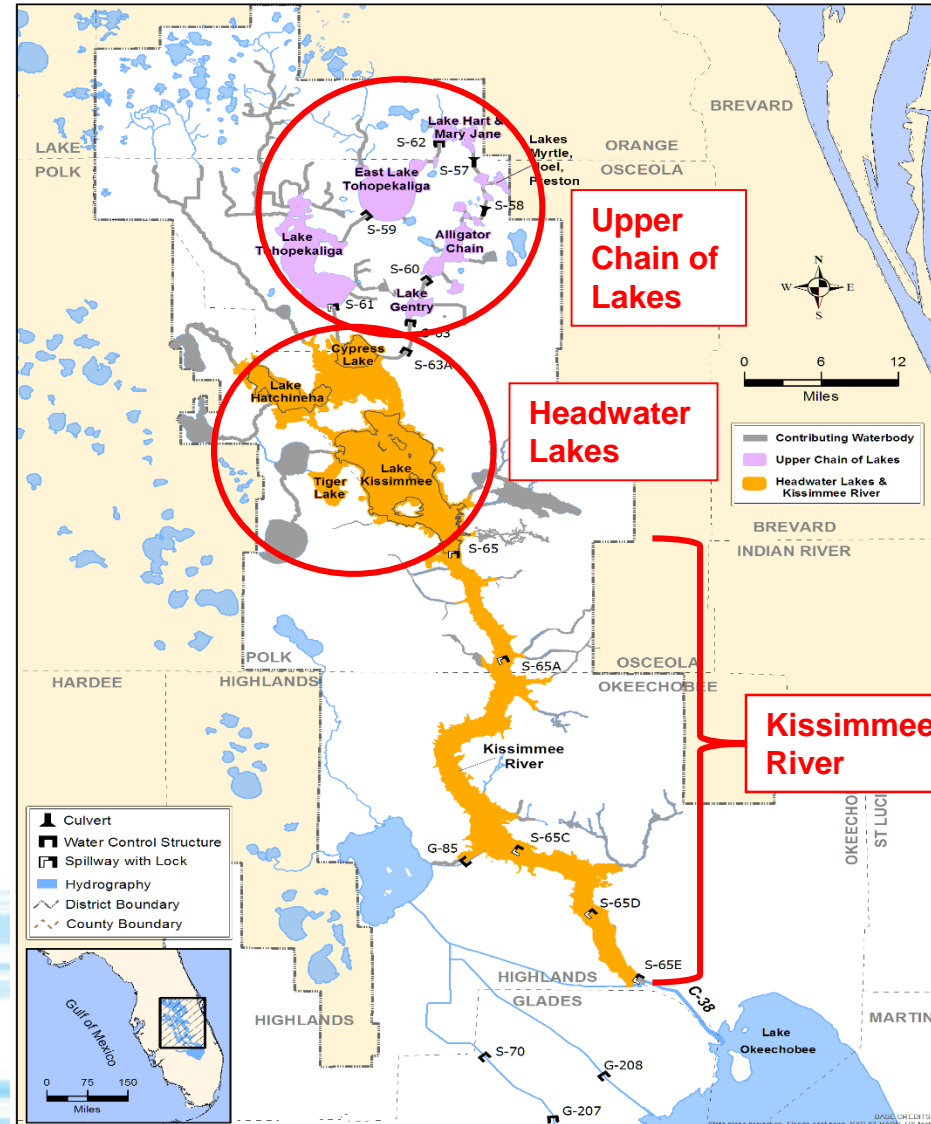


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SFWMD
2017 CFWI Priority List and
Schedule

Kissimmee Reservation Water Bodies

- Upper Chain of Lakes
- Headwater Lakes
- Restored Kissimmee River and floodplain (S-65 to S-65E)
 - 103 miles of river and floodplain
 - 27,000 acres wetland habitat
- Total area of protection = ~ 172,500 acres



What will the Kissimmee Reservation do?

- Protects water for the authorized Kissimmee River Restoration Project
- Maintains C&SF Project operations consistent with federal regulation schedules
- Supports solutions for CFWI water supply needs, consistent with other objectives



Kissimmee River Floodplain

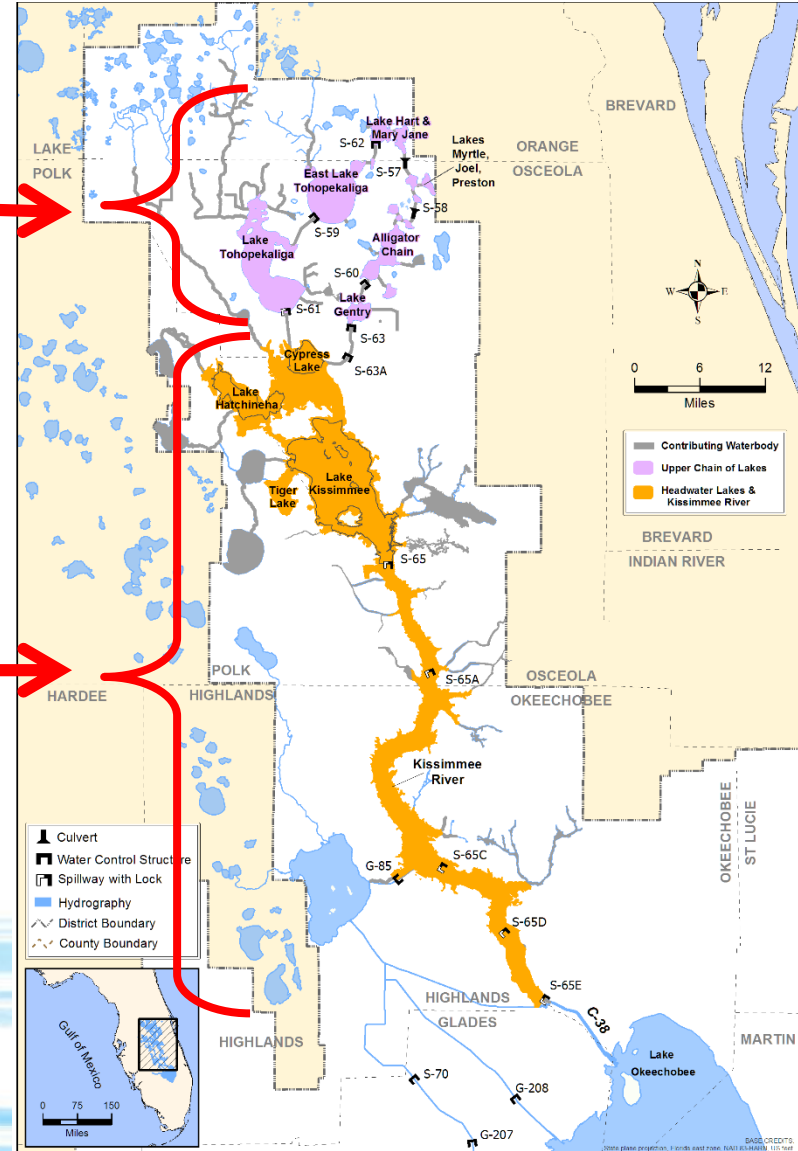
Kissimmee Reservation

Upper Chain of Lakes

Water will be reserved up to the proposed "Water Reservation stage"

Headwater Lakes & Kissimmee River

All water will be reserved as part of the rule



Kissimmee Reservation

- **Activities completed:**
 - 2 Public workshops held
 - Draft technical report
 - Draft rule language
 - Developed new modeling tool



Kissimmee River Floodplain

October 30, 2014

Reservation - Path Forward

- Address outstanding stakeholder concerns
- Schedule additional workshops in 2018
- Finalize draft rule and technical document
- Adopt rule in 2018



Kissimmee River Floodplain

SFWMD Priority List and Schedule

- **Water Resources Advisory Commission Meeting**
 - **October 5, 2017**
 - **West Palm Beach**

- **Posted on the SFWMD Web Site**
 - <https://www.sfwmd.gov/our-work/water-reservations>
 - <https://www.sfwmd.gov/our-work/mfl>

2017 Priority List and Schedule

Please submit comments, via email, by:

- **SJRWMD:** Oct. 20, 2017 *Andrew Sutherland - asutherl@sjrwmd.com*
- **SWFWMD:** Oct. 6, 2017 *Doug Leeper - doug.leeper@swfwmd.state.fl.us*
- **SFWMD:** Oct. 6, 2017 *Don Medellin - dmedelli@sfwmd.gov*

Governing Board Meetings:

- **SJRWMD:** Nov. 14, 2017; Palatka
- **SWFWMD:** Oct. 24, 2017; Brooksville
- **SFWMD:** Oct. 12, 2017, West Palm Beach