## Environmental Measures Team

**Current Work Status** 

Water Resource Assessment Team Meeting February 27, 2019

**Kym Rouse Holzwart** 

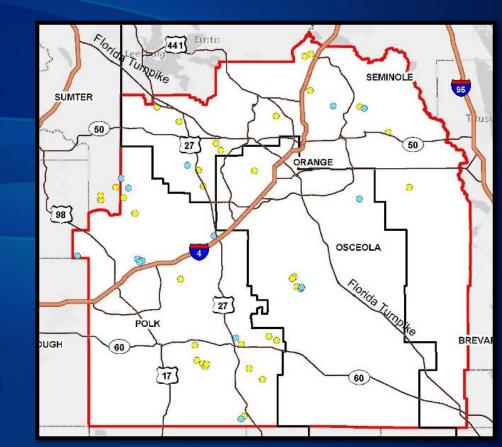
Senior Environmental Scientist Southwest Florida Water Management District Environmental Measures Team Chair



## **Final Expanded Class 1 Wetlands Dataset**

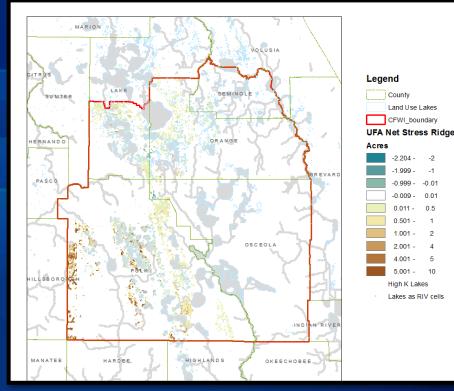


Expanded Class 1
 wetland dataset:
 56 wetlands
 (41 original + 15 new)



# Wetlands Analysis

- Data exploration for analysis preparation complete
- Equations to calculate probability of future wetland stress updated
- Test runs of the methodology completed



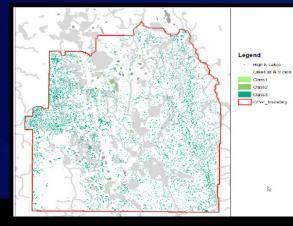
-2 -1

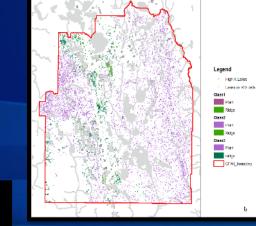
-0.01 0.01

0.5

10

### **Results for GAT and Report**





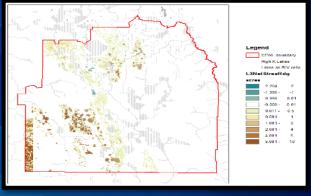


Table 5. Summary of results for regional assessment of	of the area of	f stressed	plains wetlands,	excluding wetlands wi
significant hydrologic alteration.				

		Stressed Wetland Acreages for Each Simulation						
Wetland Class	Aren (acras)	2005	2015	2025	2035	EOP		
Class 1	510	46D	240	800	450	320		
Class 2	2,600	1,400	1,500	1.600	1,600	1,500		
Class 3	79,000	14,000	15,000	16,000	17,000	* E,000		
Totel	82.000	16,000	17,000	18,000	19.000	18,000		

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Table 0, Summary of results for regional assessment of the area of stressed isolated ridge wetlands, including wetlands with significant hydrologic alteration [see text].

Aquifer Layer Used to Predict	Wetland Class	Total Area (acres)	Stressed Wetland Acreages for Each Simulation					
Wetland Water Lovel Change			2005	2015	2025		EOP**	
Surficial	Class 1	18,300	13,420	13,480	13,540	13,880	13,530	
	Class Z	9,800	2,800	8,800	9,900	4,900	4,200	
Aquifer System	Class 3	64,000	25,000	27,000	23,000	32,000	30,000	
	Total	92,000	41,000	44,000	47,000	51,000	48,000	
	Class 1	18,300	13,420	13,860	14,740	16,400	16,440	
Upper Floridan	Class Z	9,800	2,800	3,800	6,000	8,400	7,000	
Aquifer	Class 3	64,000	25,000	31,000	38,000	45,000	43,000	
	Total	92,000	41,000	49,000	59,000	70,000	66,000	

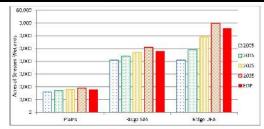
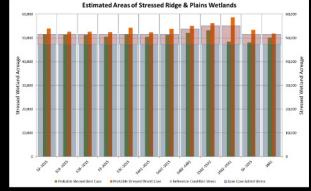


Figure 51: - Results from the nisk assessment. Versical axis indicates the total areas or loadeds wettands that were streaded for the wetstands modeling innancing (2005) and four titures variantics (2015, 2005,



#### **Report Preparation**

- Report preparation ongoing
- Assignments given out
- Rainfall data complete
- Appendix of comprehensive Class 1 wetlands information



ASSESSMENT OF EFFECTS OF WATER LEVEL CHANGES ON LAKES AND WETLANDS IN THE CENTRAL FLORIDA WATER INITIATIVE PLANNING AREA



CENTRAL FLORIDA WATER INITIATIVE'S ENVIRONMENTAL MEASURES TEAM

FEBRUARY 22, 2019