Environmental Measures Team

Current Work Status

Water Resource Assessment Team Meeting February 27, 2019

Kym Rouse Holzwart

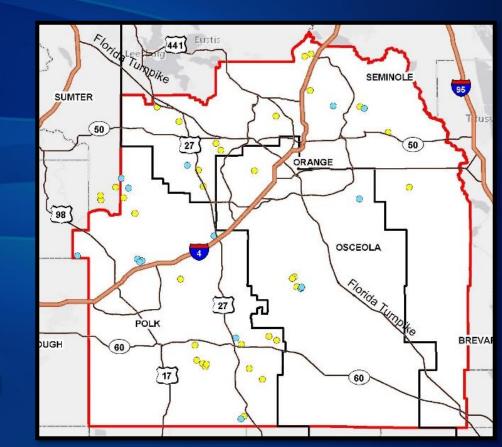
Senior Environmental Scientist Southwest Florida Water Management District Environmental Measures Team Chair



Final Expanded Class 1 Wetlands Dataset

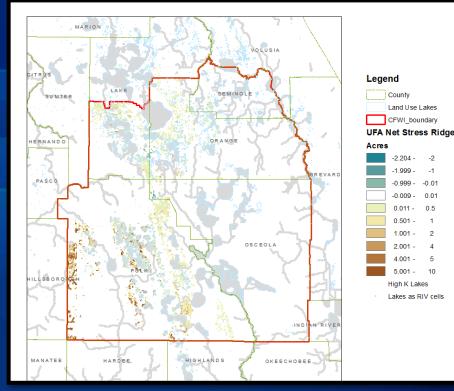


Expanded Class 1
 wetland dataset:
 56 wetlands
 (41 original + 15 new)



Wetlands Analysis

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



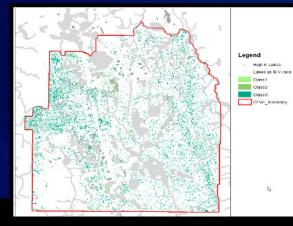
-2 -1

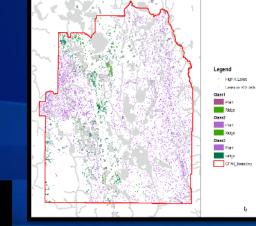
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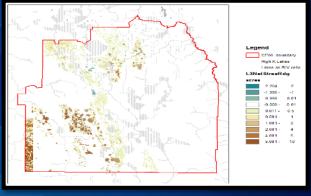
0.5

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 | |

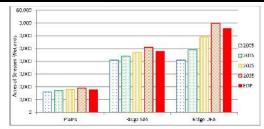
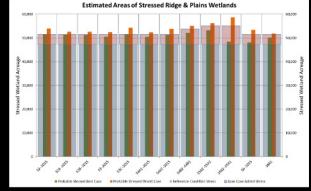


Figure 51: - Results from the nisk assessment. Versical axis indicates the total areas or loadeds wettands that were streaded for the wetstands modeling innancing (2005) and four titures variantics (2015, 2005,



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