

Environmental Measures Team

August 10, 2016



sfwmd.gov

EMT Members & Participants*

- Marc Ady – SFWMD
- Kym Holzwart & Jaime Swindasz – SFWMD
- Kristian Holmberg & Lance Hart* - SJRWMD
- Shirley Denton & David MacIntyre – Utilities
- Debbie Bradshaw* & Keith Browning* - Utilities

Wetland Comparison – Isolated & Contiguous

GIS % coverage of EMT
studied wetlands

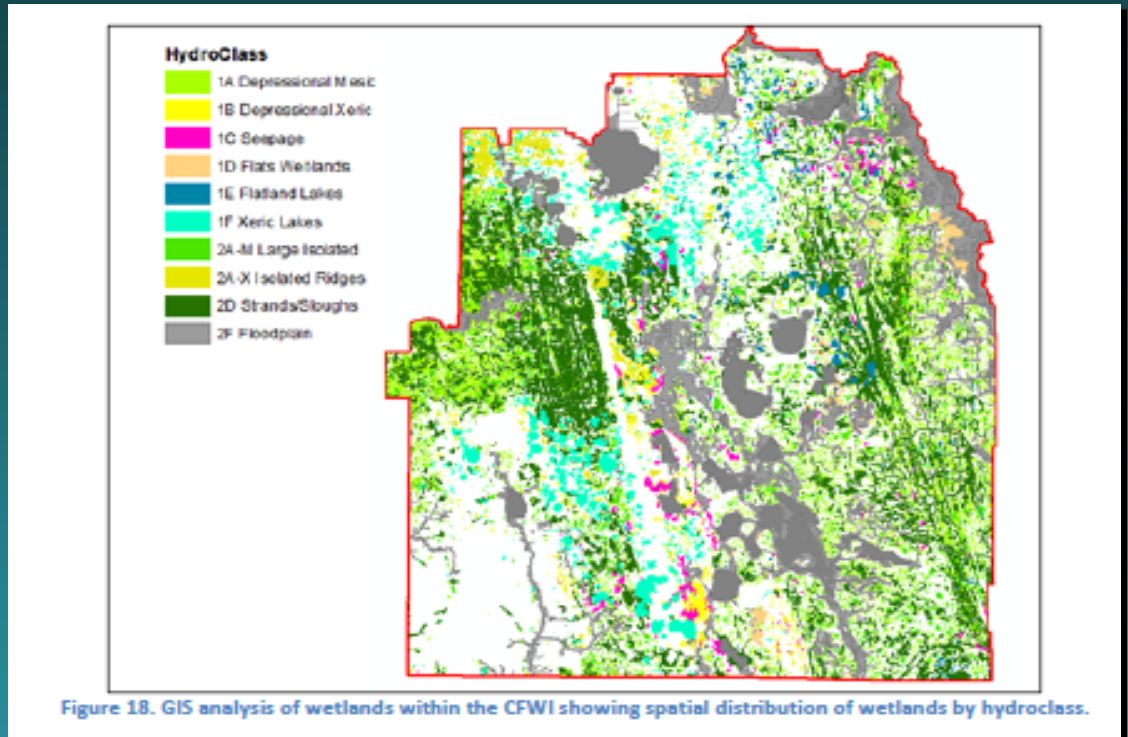
Data from EMT Final
report

Table 4. Total acreages and percentage coverages of wetland hydroclasses (types) within the CFWI, based on the GIS analysis.

Type	Description	Acreage	% Total Wetland Acres
1A + 2A-M + 1E	Isolated and semi-isolated mesic (plains)	169,000	15.7
1B + 2A-X + 1F	Isolated and semi-isolated xeric (ridges)	119,000	11.1
1C	Slope (seepage) wetlands	22,000	2.1
**1D	Flats wetlands (ridges, plains and floodplains)	26,000	2.4
2D*	Connected-(strands/sloughs-ridges and plains)	279,000	25.9
2F*	Floodplain (lakes and wetlands)	461,000	42.8
TOTALS		1,076,000	100

DMIT Wetland Hydroclasses

- **10 Hydroclasses:**
 - Depressional Mesic
 - Depressional Xeric
 - Seepage
 - Flats Wetlands
 - Flatland Lakes
 - Xeric Lakes
 - Large Isolated
 - Isolated Ridges
 - Strands / Sloughs
 - Floodplain
-
- **Hydroclasses from EMT Final Report**



EMT Wetland Classes

Table 3. Descriptions of wetland data classes based on available information

Wetland Data Class	No. of Wetlands	Data Class Characteristics		
		Wetland Type	Current Stress Condition	Water Level Hydrograph
Class 1	44	Known	Known	Known
Class 2	313	Known	Known	Unknown
Class 3	(thousands)	Known	Unknown	Unknown

Isolated Wetlands Only

Isolated & Contiguous Wetlands

Isolated Wetlands

- Most Sensitive to change
- Represents roughly 25%
- Data applied for model calibration
- Stress Evaluation
- EMT & DMIT Studied

Contiguous Wetlands

- Represents roughly 75%
- Confounded
- Data unsuitable for HAT model calibration
- Potential comprehensive view
- DMIT studied

EMT Consensus – Isolated & Contiguous Wetlands

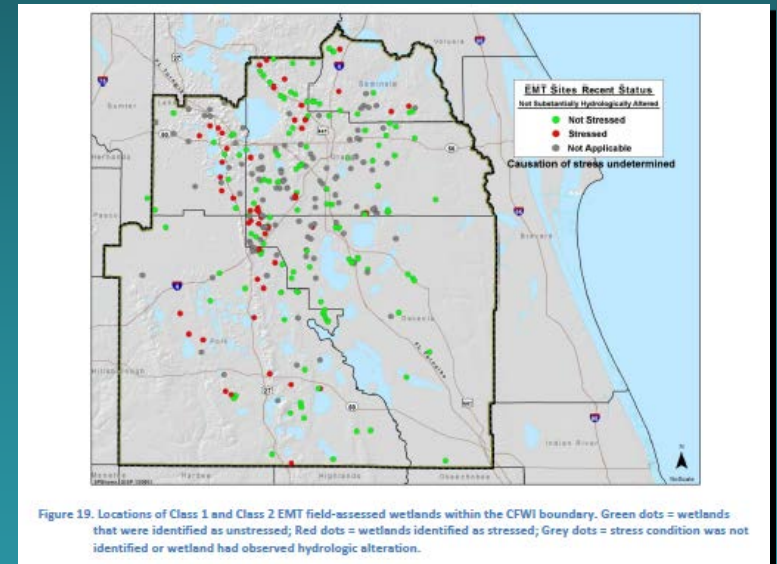
- Recognize desire to focus resources
- Early stages of identifying 107 wetland sites to be monitored
- Although contiguous wetlands represent largest percentage of wetlands within CFWI – refocus wetland monitoring on isolated wetlands for at least short term
- Contiguous wetlands can be included at future date if this data adds value

Wetland Monitoring – Class I

- Does need exist for EMT to re-evaluate Class I Wetlands?
 - Soils and Wetland Edge Surveyed in 2013
 - EMT consensus – No Action Necessary

All EMT Reviewed Wetlands

- **Roughly 400 Sites**
 - **Green – Not Stressed**
 - **Red – Stressed**
 - **Grey – Confounded or Stress Unknown**



Class II wetlands to Class I Status

- **Only 44 Class I Wetlands**
- **DMIT currently undertaking work product & producing GIS Map**
- **EMT not compiling candidate list but could assist if required**
- **EMT Consensus – DMIT should increase Class I wetland sample size**

Wetland Monitoring – Class II

- **Does need exist to re-evaluate original 357 Class II wetlands?**
 - **Several years since last review**
 - **Logistics for Site Access determined**
 - **Original budget - ± \$400K**
 - **Original Data Collected over years**
 - **Specific tasks, procedures and methodology must be streamlined**
 - **MOC guidance**

EMT Consensus – Class II Wetland Monitoring

- **Develop staged rollout for monitoring to include:**
 - Random sample of original 357 Class II Wetlands
 - Streamlined protocol, methodology & data collection
 - Stressed & non-stressed evaluation – initially conducted
 - Increase monitoring intensity only if necessary
- **Screening level analysis**
- **Receive input from MOC concerning intended monitoring and scope of work**
- **No reason to update statistical evaluation if no significant change noted**

HAT Model Calibration

Wetland Monitoring requested from
DMIT / EMT

Covers Entire CFWI Geographic area –
Not just Kissimmee Valley

GIS map being produced by HAT
group – will show data gaps

EMT consensus – Following map
evaluation, could select several sites
for screening level analysis.

MOC input relative to request

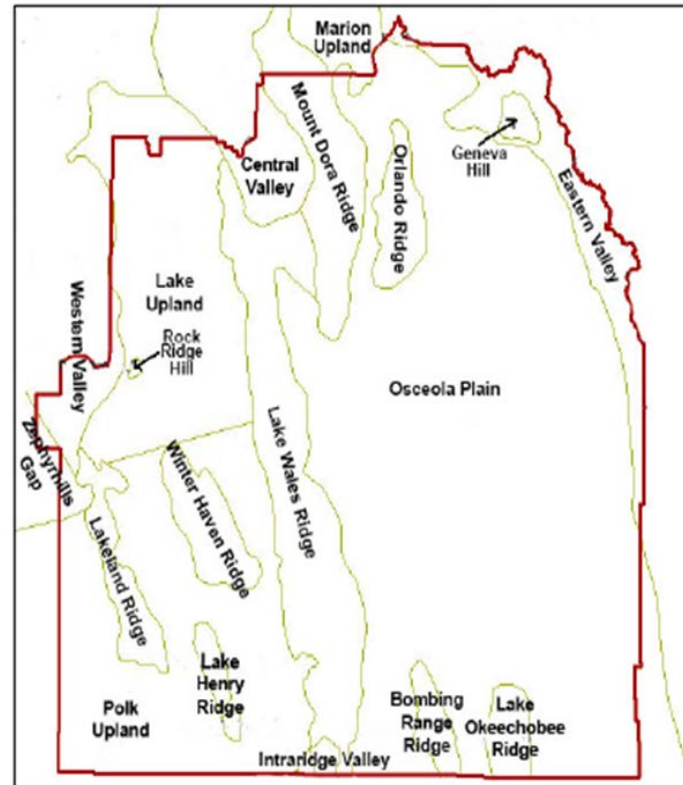


Figure 2. Generalized boundaries of the major physiographic provinces (based on Brooks, 1982) within the CFWI study area boundary.



Questions

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