

# *Minimum Flows and Levels and Reservations Team (MFLRT) Data/Information Examples for the GAT*



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# GAT Request – Example MFLRT Information for Groundwater Availability Assessment

- Freeboard/deficit tables for MFLs and MFL-related environmental criteria for the Calibration, RC2014, 2030 and 2040 simulations
- Freeboard/deficit maps color coded with red/green symbology for met/not met status
- Freeboard/deficit maps color coded with red/green/yellow symbology for met/not met status and change in status (for 2030 and 2040 simulations)
- As appropriate, caveats/qualifications for specific MFLs or MFLs-related environmental criteria
- Brief review/summary of applicable recovery strategies



# Example: Tabular MFL and MFL-Related Environmental Criteria

**Table B-11.** Summary status counts of MFL and MFL-related environmental criteria and identified for use by the CFWI Groundwater Availability Team for the recent (2018) compliance status assessment and for the modeled 2014 Reference Condition, 2030, and 2040 withdrawal condition scenarios.

MFL and MFL-Related Environmental Criteria	2018 Status <sup>a</sup>	ECFTX Groundwater Model Withdrawal Scenario		
		2014 Reference Condition	2030 Withdrawal Condition	2040 Withdrawal Condition
Number Met	41			
Number Not Met	13			

<sup>a</sup> 2018 status is provided for comparison with ECFTX groundwater model withdrawal scenario results and is based on 2018 Statewide Annual Report, 2018 Water Management District performance measures included in the Florida Water Plan, and information prepared for the Southwest Florida Water Management District's annual SWUCA recovery status update.

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# Example 2: Tabular MFL and MFL-Related Environmental Criteria

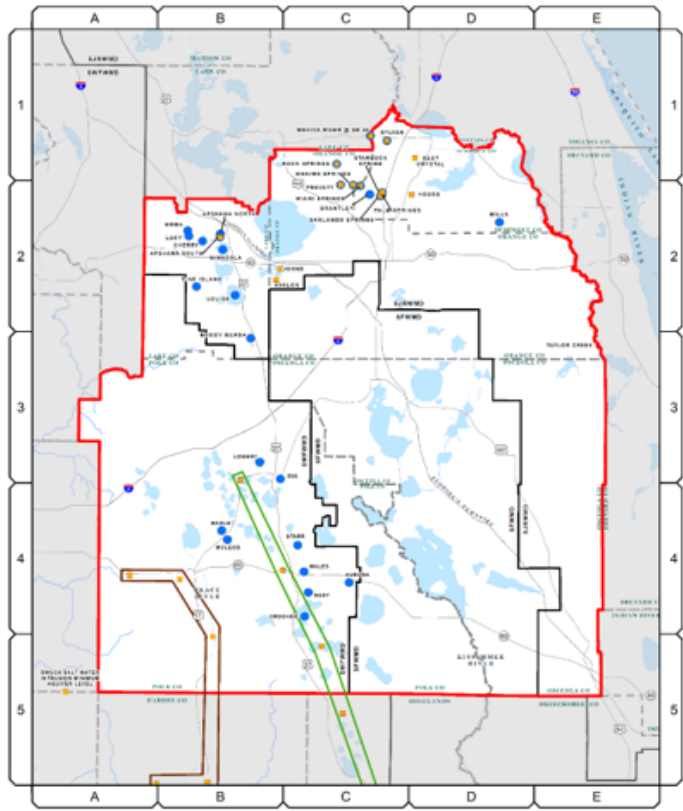
**Table B-9.** Summary results for MFL and MFL-related environmental criteria evaluated for the modeled 2014 Reference Condition, 2030 withdrawal condition, and 2040 withdrawal condition scenarios.

Map Grid <sup>a</sup>	Water Body/ Regulatory Well Target Name	2014 Reference Condition Status <sup>b</sup>	2014 Reference Condition Freeboard or Deficit <sup>c</sup>	2030 Withdrawal Condition Status <sup>b</sup>	2030 Withdrawal Condition Freeboard or Deficit <sup>c</sup>	2040 Withdrawal Condition Status <sup>b</sup>	2040 Withdrawal Condition Freeboard or Deficit <sup>c</sup>
<i>Adopted Lake and Wetland MFLs within the CFWI Planning Area</i>							
C-4	Aurora, Lake						
B-3	Boggy Marsh						
C-2	Brantley, Lake						
D-2	Burkett, Lake		NSFAC		NSFAC		NSFAC
B-2	Cherry Lake						
C-4	Crooked Lake						
B-4	Eagle Lake						
C-4	Easy, Lake						
B-2	Emma, Lake						
B-3	Eva, Lake						

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# Example Figure 1: MFLs and MFL-Related Environmental Criteria



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Figure B-4. MFLs and MFL-related environmental criteria identified to support groundwater availability assessments.

Note: Peace River Regulatory Wells and Ridge Lake Regulatory Wells polygons included to group the set of 5 wells for each that is categorized as a criterion, but only 4 Ridge Lake Well location are depicted in this map.



# Example Figure 2: Color Coding MFL and MFL-Related Environmental Criteria Status

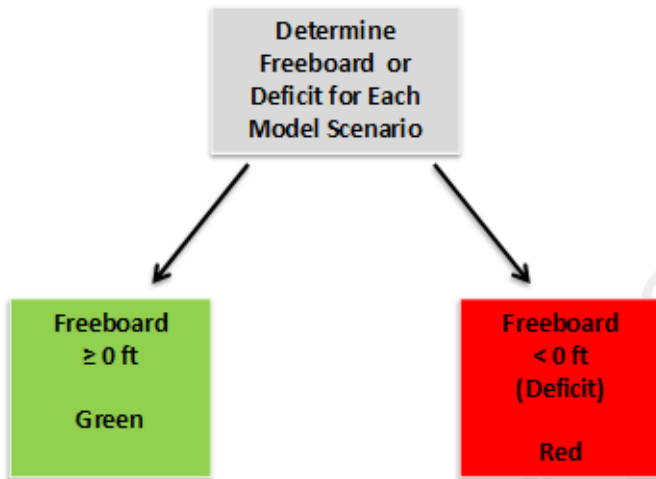


Figure B-9. Two-color coding scheme for classification of minimum flows and levels freeboard and deficit values.

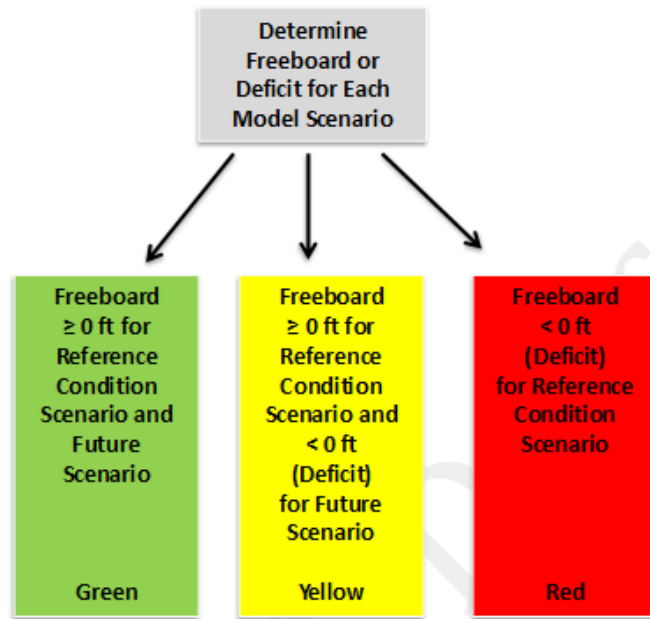


Figure B-10. Three-color coding scheme for classification of minimum flows and levels freeboard and deficit values.

# Example Figure 3: Coding Results from RWSP 2015

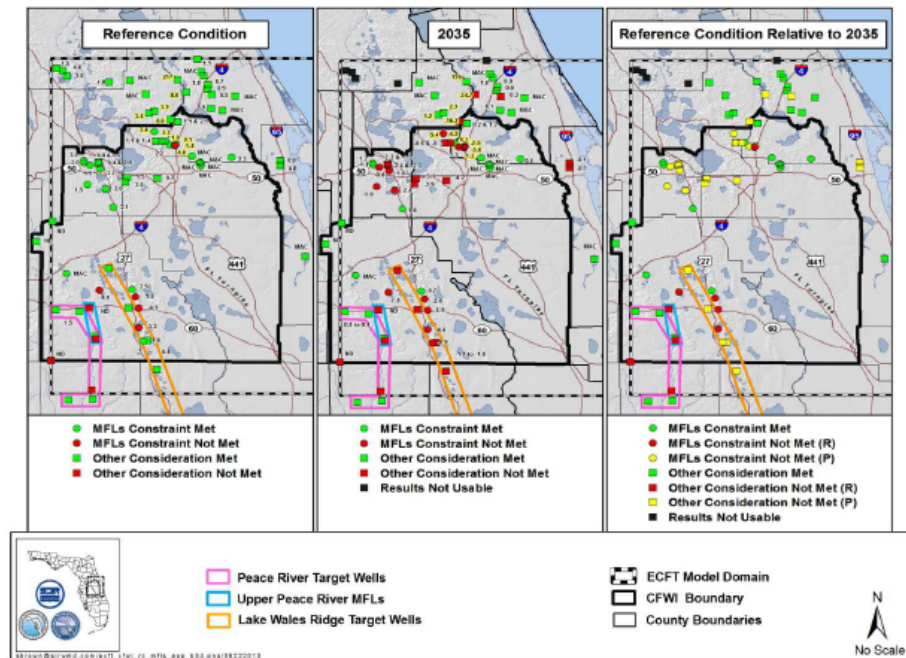


Figure B-34. 2035 Withdrawal Scenario – MFL Constraints and Other Considerations: Status (met or not met) and remaining freeboard for the Reference Condition (2005) and 2035 withdrawal scenario (left and middle panels) and status for the Reference Condition (2005) relative to the 2035 withdrawal scenario with recovery (R) and prevention (P) status differentiated (right panel).

Note: Remaining freeboard values expressed in feet (non-highlighted values) or cubic feet per second (yellow highlighted values), with MAC indicating that freeboard was not established due to minimal aquifer connection at the site and ND indicating that freeboard was not determined. Two freeboard values are shown for four sites with adopted and proposed MFLs that were used respectively, as MFLs constraints and other considerations. A range of freeboard values is shown for each set of wells based on the method used for their derivation (see Section 4). Symbols for Blue Cypress Water Management Area (other consideration met; remaining freeboard value = MAC) and the southernmost of the Lake Wales Ridge wells grouped by the orange polygon are not shown in the mapped area.

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# Example Figure 4: SWUCA SWIMAL, MIA and Regulatory Wells

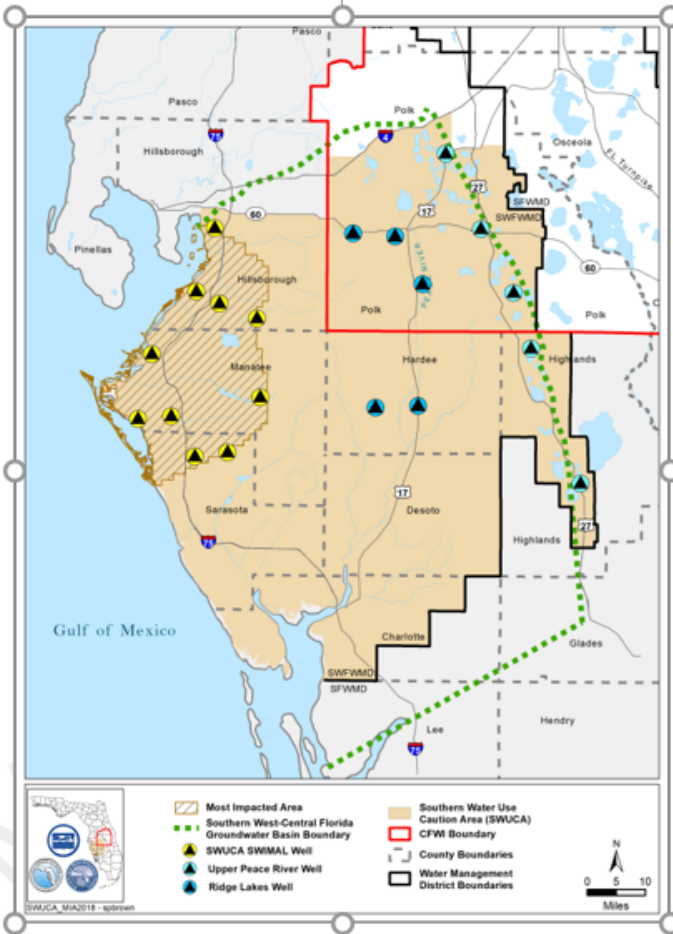


Figure B-3. Southern Water Use Caution Area (SWUCA), Most Impacted Area of the SWUCA and the Southern West-Central Florida groundwater basin relative to the CFW Planning area.

Note: Regulatory wells associated with the Saltwater Intrusion Minimum Aquifer Level (SWIMAL) adopted for the Most Impacted Area of the SWUCA, and Upper Peace River and Ridge Lakes regulatory wells established as part of the SWUCA Recovery Strategy are also shown.

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