

# Suwannee River

## SUMMARY

All symptoms had low expression values leading to a low overall eutrophic condition rating. SAV area has remained unchanged and macroalgae is reported as non-problematic. Nuisance/toxic blooms are an episodic problem in the seawater zone (29% of the area). Chlorophyll-a and dissolved oxygen symptoms tend to be episodic, over a moderate area.

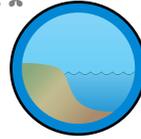
## Influencing Factors

Moderate to high nitrogen input and moderate to high susceptibility (low ability for dilution and flushing of nutrients).



## Eutrophic Conditions \*\*

Level of expression of eutrophic conditions is minimal.



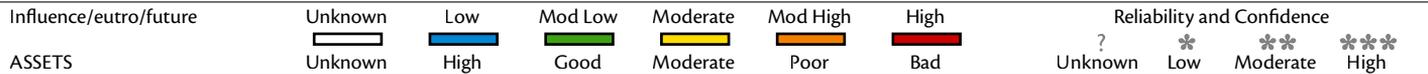
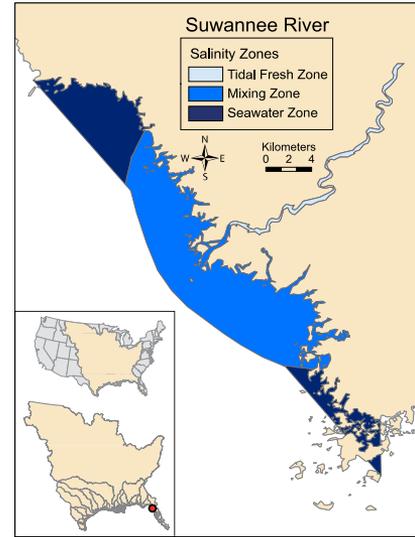
## Future Outlook

Nutrient related symptoms observed in the estuary are likely to substantially worsen.

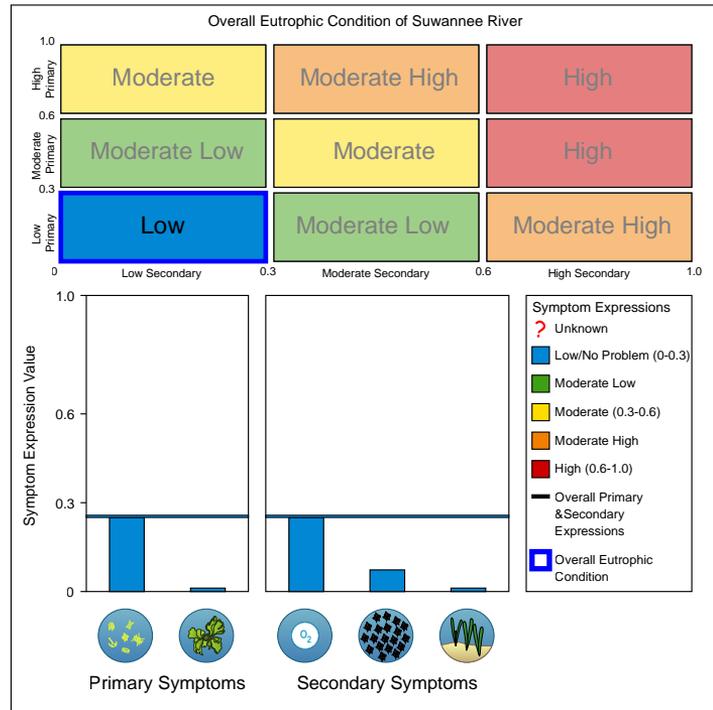
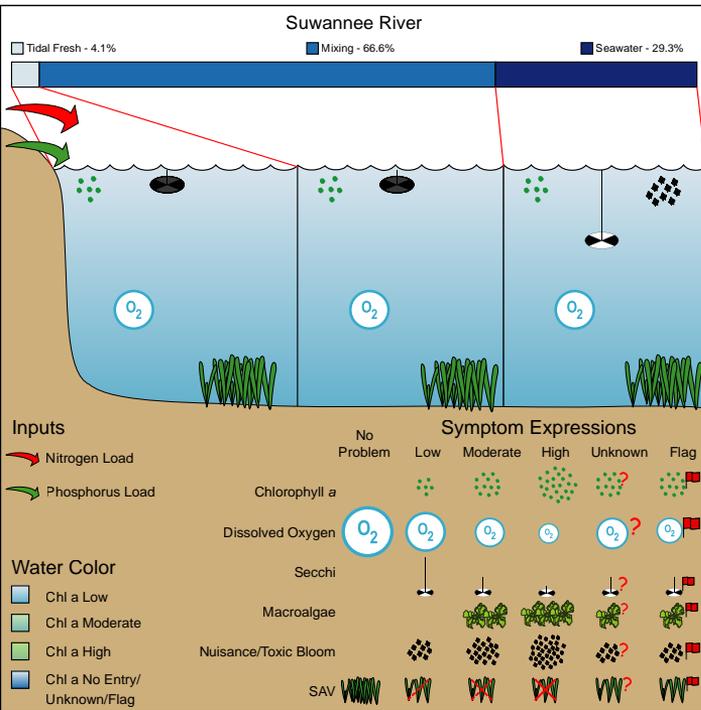


## ASSETS Rating

Assessment of Estuarine Trophic Status based on the three factors evaluated in NEEA.



## EUTROPHIC CONDITION



## WATERSHED AND ESTUARY CHARACTERISTICS

Estuary		Landuse / Population		Watershed Details / Input Loads	
Area (km <sup>2</sup> )	165	Urban (km <sup>2</sup> )	521 (2%)	Area (km <sup>2</sup> )	25,989
Tidal fresh zone area (km <sup>2</sup> )	7	Agriculture (km <sup>2</sup> )	7,871 (30.5%)	Mean elevation (m)	51
Mixing zone area (km <sup>2</sup> )	110	Forest (km <sup>2</sup> )	12,820 (49.6%)	Max. elevation (m)	139
Saltwater zone area (km <sup>2</sup> )	48	Wetland (km <sup>2</sup> )	4,608 (17.8%)	Watershed: estuary ratio	157.5
Volume (1,000 x m <sup>3</sup> )	193,050	Range (km <sup>2</sup> )	18 (0.1%)	TSS (tonne y <sup>-1</sup> )	175,000
Depth (m)	1.17	Barren (km <sup>2</sup> )	0 (0%)	DIN (kg y <sup>-1</sup> )	6,281,347
Tide Height (m)	0.76	Total (km <sup>2</sup> )	25,838 (0%)	DIP (kg y <sup>-1</sup> )	871,805
Residence Time (d)	1	Population	417,564	TSS/est. area (tonne km <sup>-2</sup> y <sup>-1</sup> )	1,061
		Popn: est. area ratio	2,531	DIN/est. area (kg km <sup>-2</sup> y <sup>-1</sup> )	38,069
				DIP/est. area (kg km <sup>-2</sup> y <sup>-1</sup> )	5,284