

Caloosahatchee River

SUMMARY

Water body conditions leading to the Caloosahatchee River's overall eutrophic condition rating of moderate include high chlorophyll-a expression and moderate macroalgae blooms. Macroalgae was not considered a problem in 1999. Recent SAV loss in the River has been attributed to salinity and light limitation from colored organic matter.

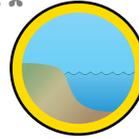
Influencing Factors

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



Eutrophic Conditions **

Primary symptoms high but problems with more serious secondary symptoms still not being expressed.



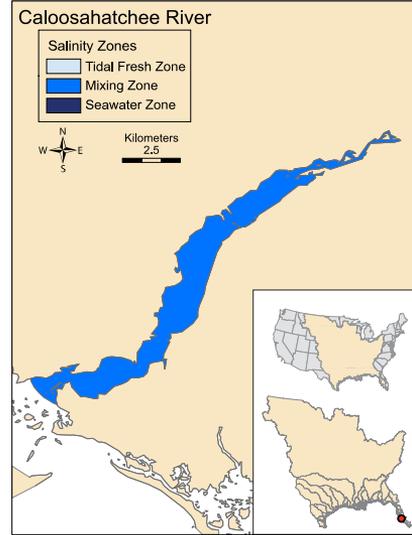
Future Outlook

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.



Influence/eutro/future

Unknown

Low

Mod Low

Moderate

Mod High

High

Reliability and Confidence

ASSETS

Unknown

High

Good

Moderate

Poor

Bad

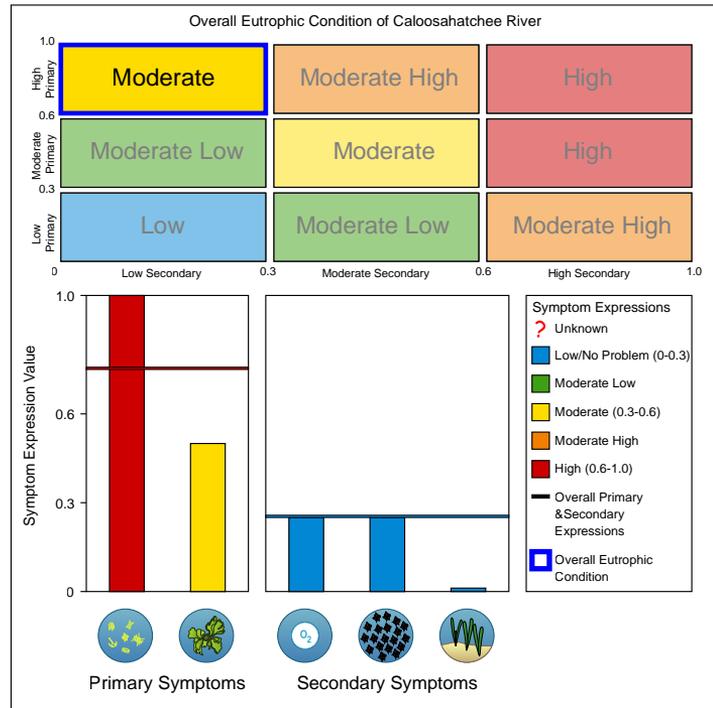
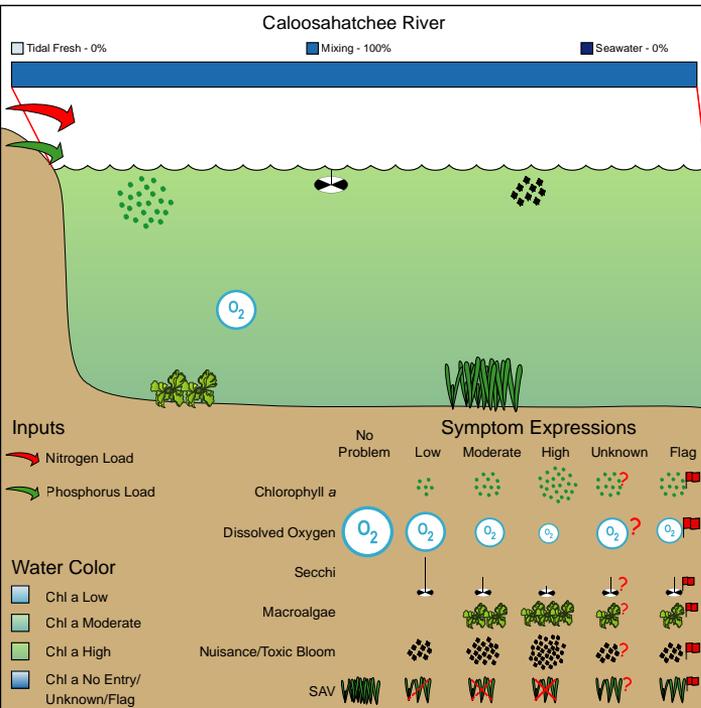
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High

EUTROPHIC CONDITION



WATERSHED AND ESTUARY CHARACTERISTICS

Estuary		Landuse / Population		Watershed Details / Input Loads	
Area (km ²)	67	Urban (km ²)	420 (11.9%)	Area (km ²)	3,558
Tidal fresh zone area (km ²)	0	Agriculture (km ²)	995 (28.2%)	Mean elevation (m)	9
Mixing zone area (km ²)	67	Forest (km ²)	319 (9%)	Max. elevation (m)	22
Saltwater zone area (km ²)	0	Wetland (km ²)	508 (14.4%)	Watershed: estuary ratio	53.1
Volume (1,000 x m ³)	125,960	Range (km ²)	1,292 (36.6%)	TSS (tonne y ⁻¹)	139,000
Depth (m)	1.88	Barren (km ²)	0 (0%)	TN (kg y ⁻¹)	2,793,000
Tide Height (m)	0.33	Total (km ²)	3,533 (0%)	TP (kg y ⁻¹)	229,000
Residence Time (d)	11	Population	200,572	TSS/est. area (tonne km ⁻² y ⁻¹)	2,075
		Popn: est. area ratio	2,994	TN/est. area (kg km ⁻² y ⁻¹)	41,687
				TP/est. area (kg km ⁻² y ⁻¹)	3,418