

# Mississippi River

## SUMMARY

The Mississippi River is characterized by high nutrient loading and turbidity. The estuary's overall eutrophic rating has remained unchanged since the 1999 assessment, with moderate chlorophyll-a concentrations and a low symptom expression for dissolved oxygen. More data are needed for an accurate evaluation.

## Influencing Factors

Any level nitrogen input and low to moderate susceptibility (good ability to dilute and flush nutrients).



## Eutrophic Conditions \*

Primary symptoms beginning to indicate possible problems but still very few secondary symptoms expressed.



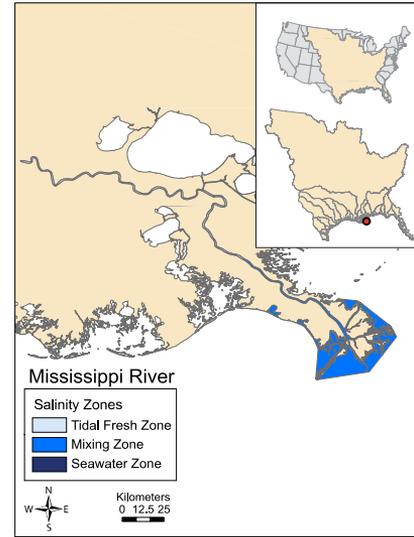
## Future Outlook

An Unknown Future Outlook expression will occur if the Expected Changes In Nutrient Load by 2020 is Unknown.



## 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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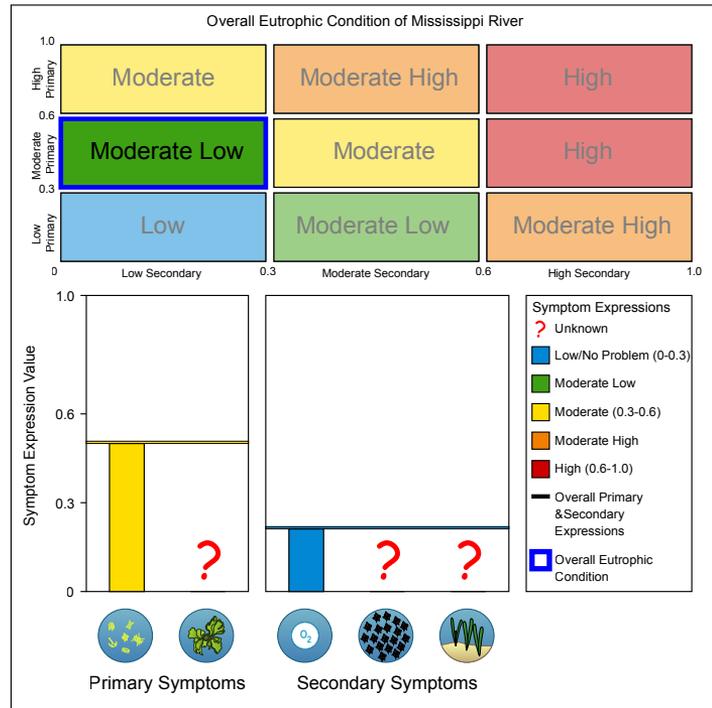
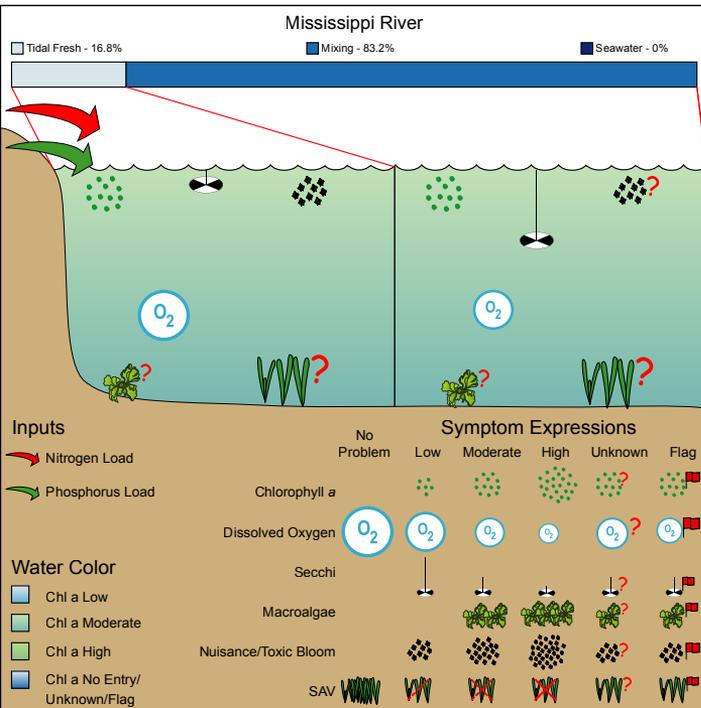
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High

## EUTROPHIC CONDITION



## WATERSHED AND ESTUARY CHARACTERISTICS

Estuary	Landuse / Population		Watershed Details / Input Loads		
Area (km <sup>2</sup> )	981	Urban (km <sup>2</sup> )	90,230 (3.1%)	Area (km <sup>2</sup> )	2,968,304
Tidal fresh zone area (km <sup>2</sup> )	165	Agriculture (km <sup>2</sup> )	1,463,230 (50.4%)	Mean elevation (m)	693
Mixing zone area (km <sup>2</sup> )	816	Forest (km <sup>2</sup> )	620,214 (21.4%)	Max. elevation (m)	4,282
Saltwater zone area (km <sup>2</sup> )	0	Wetland (km <sup>2</sup> )	33,380 (1.2%)	Watershed: estuary ratio	3,025.8
Volume (1,000 x m <sup>3</sup> )	6,876,810	Range (km <sup>2</sup> )	695,401 (24%)	TSS (tonne y <sup>-1</sup> )	1,290,000
Depth (m)	7.01	Barren (km <sup>2</sup> )	86 (0%)	DIN (kg y <sup>-1</sup> )	625,000,000
Tide Height (m)	0.29	Total (km <sup>2</sup> )	2,902,540 (0%)	TP (kg y <sup>-1</sup> )	133,682,000
Residence Time (d)	4	Population	73,009,176	TSS/est. area (tonne km <sup>-2</sup> y <sup>-1</sup> )	1,315
		Popn: est. area ratio	74,423	DIN/est. area (kg km <sup>-2</sup> y <sup>-1</sup> )	637,105
				TP/est. area (kg km <sup>-2</sup> y <sup>-1</sup> )	136,271