

# Pensacola Bay

## SUMMARY

Little data were available for Pensacola Bay, but dissolved oxygen levels suggest a low symptom expression, an improvement since the 1999 assessment. The Department of Environmental Protection notes that eutrophication effects are localized to poorly flushed bayous (such as Bayou Texar) that empty into the estuary, rather than the estuary proper.

## Influencing Factors

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



## Future Outlook

Nutrient related symptoms observed in the estuary will most likely stay the same.



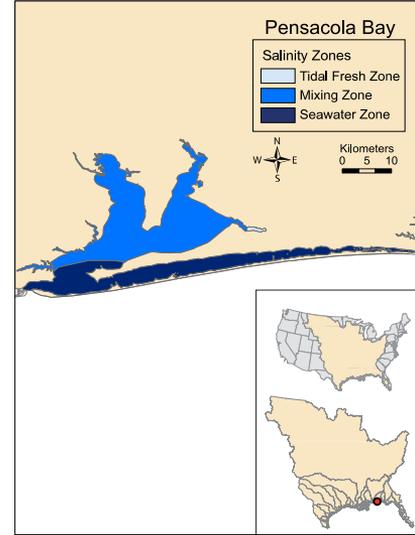
## Eutrophic Conditions \*

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



## 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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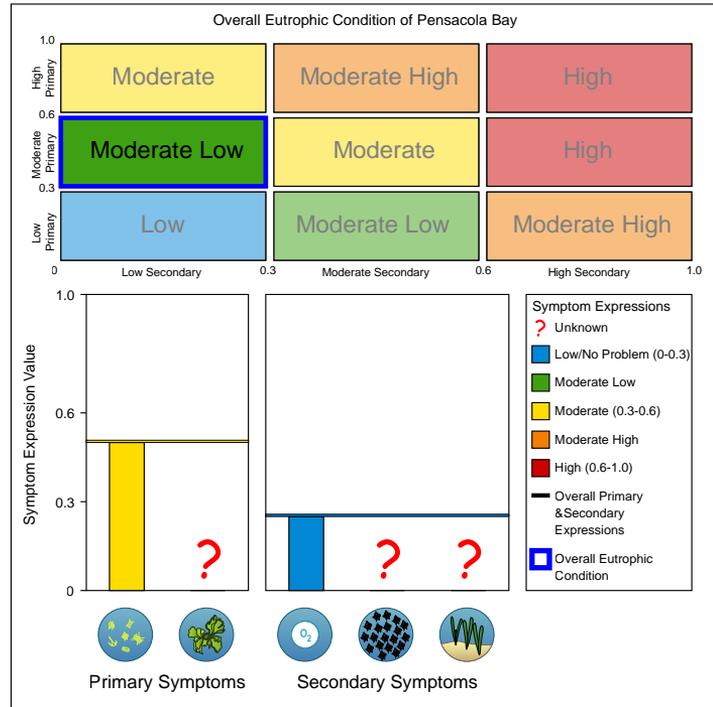
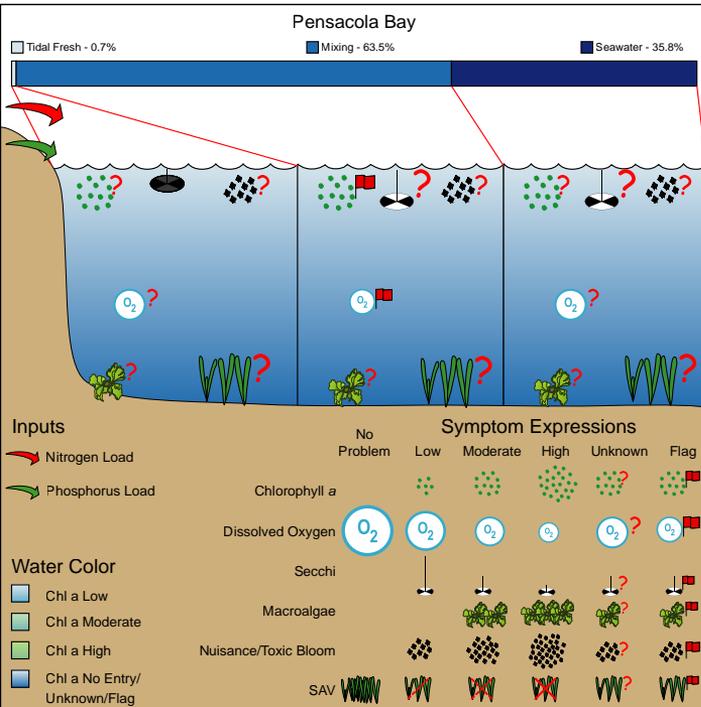
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High

## EUTROPHIC CONDITION



## WATERSHED AND ESTUARY CHARACTERISTICS

Estuary	Landuse / Population		Watershed Details / Input Loads		
Area (km <sup>2</sup> )	477	Urban (km <sup>2</sup> )	818 (4.7%)	Area (km <sup>2</sup> )	17,650
Tidal fresh zone area (km <sup>2</sup> )	3	Agriculture (km <sup>2</sup> )	3,869 (22.1%)	Mean elevation (m)	87
Mixing zone area (km <sup>2</sup> )	303	Forest (km <sup>2</sup> )	12,085 (69.2%)	Max. elevation (m)	198
Saltwater zone area (km <sup>2</sup> )	171	Wetland (km <sup>2</sup> )	684 (3.9%)	Watershed: estuary ratio	37.0
Volume (1,000 x m <sup>3</sup> )	1,440,540	Range (km <sup>2</sup> )	16 (0.1%)	TSS (tonne y <sup>-1</sup> )	1,060,000
Depth (m)	3.02	Barren (km <sup>2</sup> )	0 (0%)	DIN (kg y <sup>-1</sup> )	220,000
Tide Height (m)	0.42	Total (km <sup>2</sup> )	17,472 (0%)	DIP (kg y <sup>-1</sup> )	53,200
Residence Time (d)	27	Population	370,678	TSS/est. area (tonne km <sup>-2</sup> y <sup>-1</sup> )	2,222
		Popn: est. area ratio	777	DIN/est. area (kg km <sup>-2</sup> y <sup>-1</sup> )	461
				DIP/est. area (kg km <sup>-2</sup> y <sup>-1</sup> )	112