

N.MD Coastal Bays (Isle of Wight/ Assawoman)

SUMMARY

Overall eutrophic condition for the northern Maryland Coastal Bays is moderate. Primary symptoms indicate hyper-eutrophic chlorophyll-a levels and moderate macroalgal abundance. Secondary symptoms do not indicate degraded conditions. However, diurnal oxygen values are needed. SAV data reflects mixing zone losses and seawater zone slight gains.

Influencing Factors

Nutrient load is unknown and influencing factors cannot be calculated.



Eutrophic Conditions ***

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



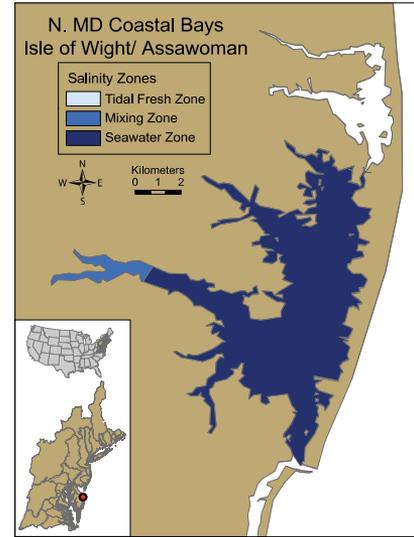
Future Outlook

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

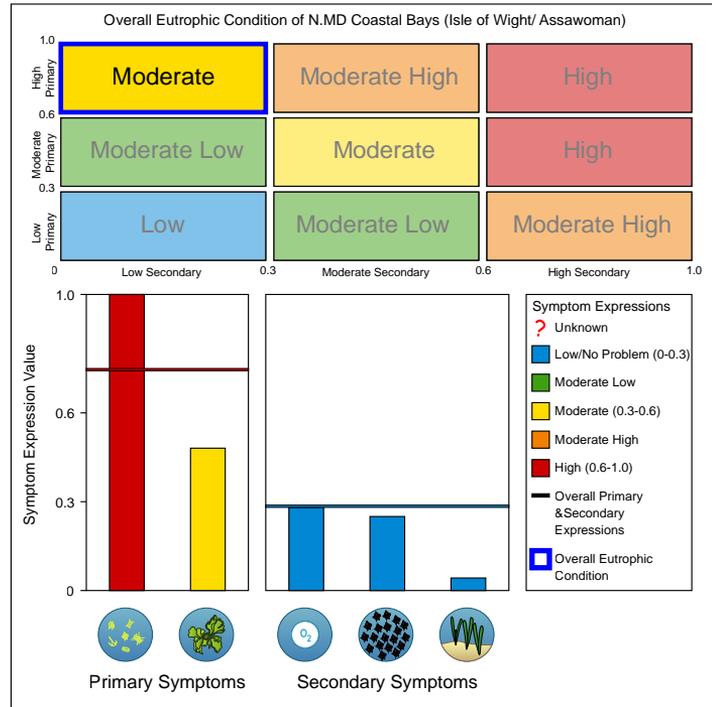
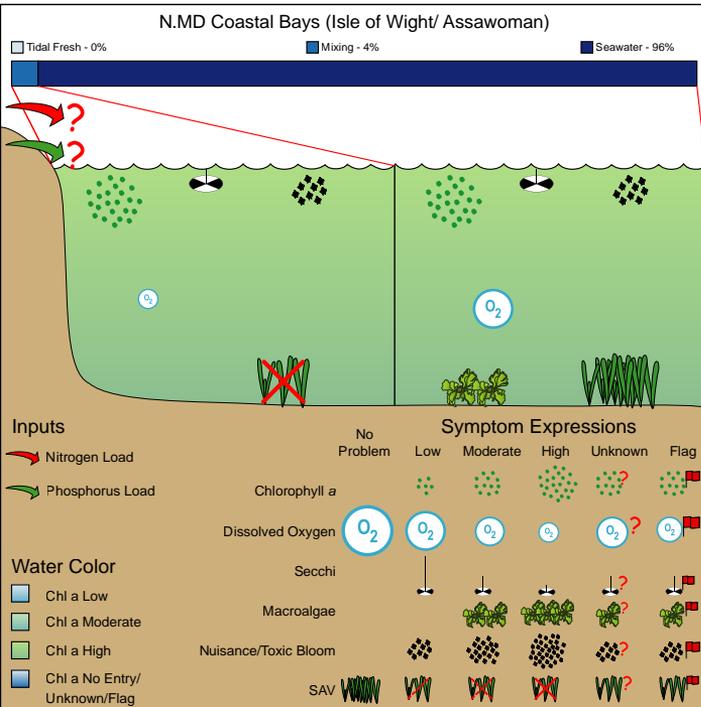
Unknown

Low

Moderate

High

EUTROPHIC CONDITION



WATERSHED AND ESTUARY CHARACTERISTICS

Estuary		Landuse / Population		Watershed Details / Input Loads	
Area (km ²)	54	Urban (km ²)	41 (15.4%)	Area (km ²)	283
Tidal fresh zone area (km ²)	0	Agriculture (km ²)	135 (50%)	Mean elevation (m)	5
Mixing zone area (km ²)	2	Forest (km ²)	78 (28.8%)	Max. elevation (m)	12
Saltwater zone area (km ²)	52	Wetland (km ²)	16 (5.8%)	Watershed: estuary ratio	5.2
Volume (1,000 x m ³)	103,680	Range (km ²)	0 (0%)	TSS (tonne y ⁻¹)	1,880
Depth (m)	1.92	Barren (km ²)	0 (0%)	DIN (kg y ⁻¹)	Unknown
Tide Height (m)	0.67	Total (km ²)	269 (0%)	DIP (kg y ⁻¹)	Unknown
Residence Time (d)	4	Population	15,166	TSS/est. area (tonne km ⁻² y ⁻¹)	35
		Popn: est. area ratio	281	DIN/est. area (kg km ⁻² y ⁻¹)	Unknown
				DIP/est. area (kg km ⁻² y ⁻¹)	Unknown