

Umpqua River

SUMMARY

A lack of data prevents accurate assessment of the eutrophic condition of the Umpqua River. Though with low confidence based upon the sampling frequency, chlorophyll a concentrations suggest a moderate symptom expression and dissolved oxygen levels appear to be healthy in the mixing and seawater zones of the estuary.

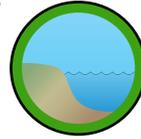
Influencing Factors

Nutrient load is unknown and influencing factors cannot be calculated.



Eutrophic Conditions *

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



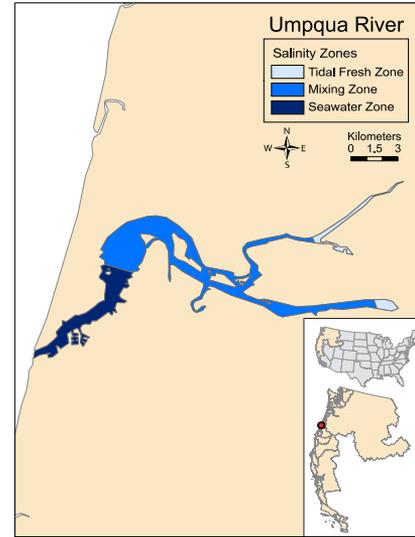
Future Outlook

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

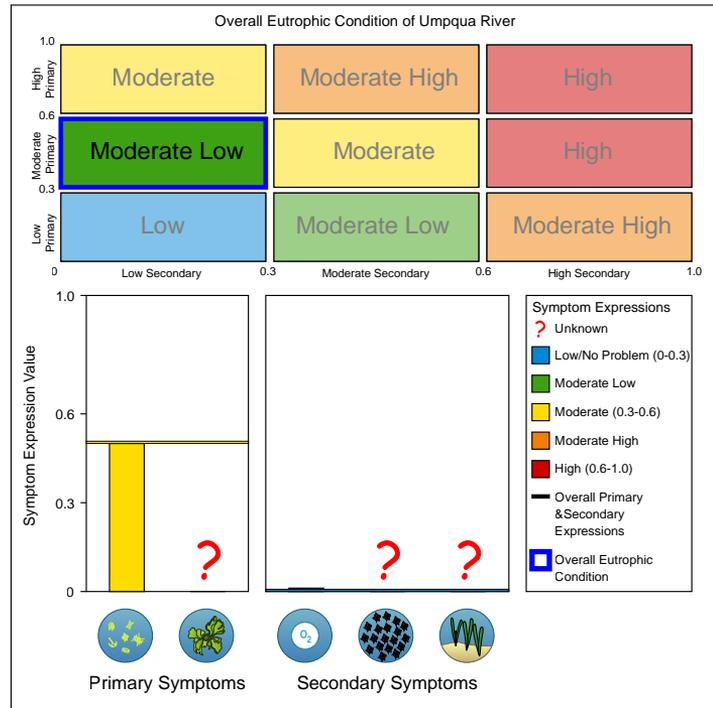
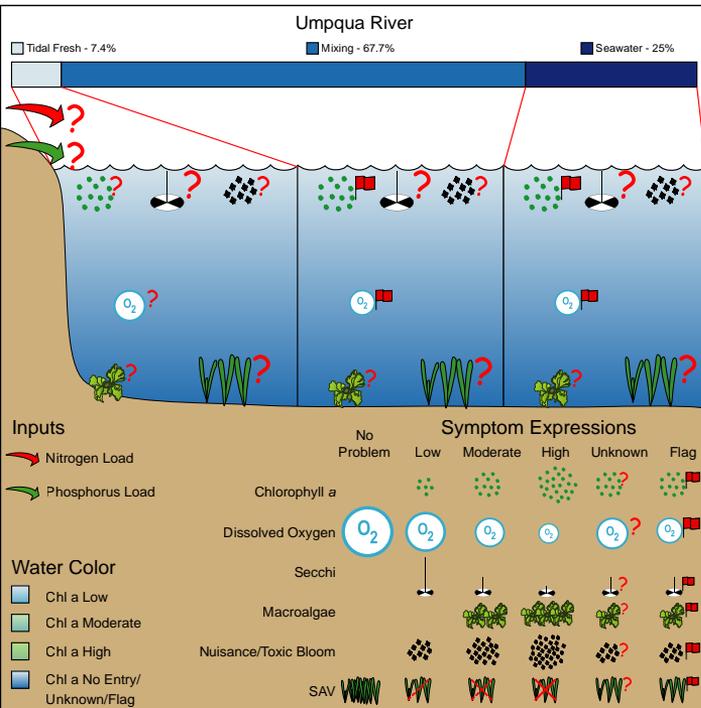
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High

EUTROPHIC CONDITION



WATERSHED AND ESTUARY CHARACTERISTICS

Estuary		Landuse / Population		Watershed Details / Input Loads	
Area (km ²)	24	Urban (km ²)	205 (1.7%)	Area (km ²)	12,080
Tidal fresh zone area (km ²)	2	Agriculture (km ²)	417 (3.5%)	Mean elevation (m)	642
Mixing zone area (km ²)	16	Forest (km ²)	11,233 (93.4%)	Max. elevation (m)	2,412
Saltwater zone area (km ²)	6	Wetland (km ²)	3 (0%)	Watershed: estuary ratio	503.3
Volume (1,000 x m ³)	74,880	Range (km ²)	174 (1.4%)	TSS (tonne y ⁻¹)	680,000
Depth (m)	3.12	Barren (km ²)	0 (0%)	DIN (kg y ⁻¹)	Unknown
Tide Height (m)	1.55	Total (km ²)	12,031 (0%)	DIP (kg y ⁻¹)	Unknown
Residence Time (d)	1	Population	86,971	TSS/est. area (tonne km ⁻² y ⁻¹)	28,333
		Popn: est. area ratio	3,624	DIN/est. area (kg km ⁻² y ⁻¹)	Unknown
				DIP/est. area (kg km ⁻² y ⁻¹)	Unknown