

2006 Chlorophyll Data Summary - River Sites

Algae play a vital role in all aquatic ecosystems - providing the food and energy base for all organisms living in lakes, ponds, and streams. However, unnatural or excessive growth of algae (nuisance algal blooms) may interfere with our enjoyment of aquatic resources and may even be harmful. Algal blooms can lead to reduced or even the absence of dissolved oxygen in the water, affecting the aquatic species in the water and changing the water chemistry. In rare cases some species can release toxins that can sicken or even kill animals and people who swallow them. Because of their importance to aquatic ecosystems and susceptibility to changes in the environment, algal measurements a key component in our slower water systems, particularly in lakes, ponds, tidal rivers and estuaries.

Watershed LOCATION	# DATES SAMPLED	SEASON			MEDIAN TROPIC			
		MIN	MAX	MEAN	MEDIAN	TSI	STATUS 1_/	
Code		--(ug/l or ppb) at 1 meter--						
WD Falls River D - Step Stone Falls	6	0.2	4.4	1.9	1.0	31	φ	
WD Falls River C - Austin Farm Rd.	6	0.1	1.7	0.7	0.5	23	φ	
WD Falls River B - Sand Banks	6	0.3	1.9	0.7	0.5	24	φ	
WD Falls River A - Twin Bridges	6	0.4	2.8	1.0	0.7	27	φ	
PE NR 01- Gilbert Stuart	12	0.9	6.8	2.4	2.5	40	φ	
PE NR 02 - Upper Pond 0.5M	12	4.2	11.5	7.6	7.7	51	E	
PE NR 03 - Lower Pond A 0.5M	13	5.4	15.7	9.8	8.9	51	E	
PE NR 04 - Lower Pond B 0.5M	11	3.6	13.9	9.1	9.7	53	E	
PE NR 05 - Lacey Bridge	8	3.0	16.7	10.2	9.8	53	E	
PE NR 06 - Mettatuxet Beach	11	2.3	20.9	8.9	7.3	50	M	
PE NR 07 - End of Narrows	5	4.4	9.1	6.3	5.3	47	M	
PE NR 08 - Middlebridge	11	0.7	22.6	5.6	3.1	42	M	
PE NR 09 - Pettaquamscutt	-	-	-	-	-	-	-	
PE NR 10 - Sprague Bridge	10	2.9	10.5	5.6	5.0	46	M	
PE NR 11 - Mettatuxet Brook	8	0.3	0.8	0.5	0.5	23	φ	
WD Pawcatuck River @ Avondale	12	0.9	28.7	9.1	6.3	49	M	

1_/ O = Oligotrophic, TSI<40 (> 2.6 ug/L); M = Mesotrophic, TSI 40-50 (2.6 - 7.2 ug/L);
E = Eutrophic, TSI >50-65 (7.3 - 35 ug/L); H=Hypereutrophic, TSI > 65 (> 35 ug/L).

φ = As a river site, chlorophyll may not reflect trophic status

