

2005 Parameter Data: Dissolved Phosphorus in River and Tributary Sites

In fresh water lakes, ponds, reservoirs and streams, phosphorus is the nutrient that has the most influence on plant growth. Just parts per billion (ppb) increases are needed to stimulate the growth of algae. Dissolved phosphorus is the portion of the total phosphorus that is dissolved in the water, rather than bound in the algae and zooplankton or adhered to the sediment. Dissolved phosphorus is the form that is readily available for additional algal growth. In mid-summer dissolved phosphorus levels are usually low in lakes because it is quickly taken up and used by plants and algae.

Watershed	LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Code	RIVERS	-- (ug/l or ppb) --						
CE	Bailey's Brook	11	-	9	8	-	26	14
NA	Buckeye Brk @ Novelty Rd	14	10	9	7	5	15	10
NA	Buckeye Brk @ Lockwood Brk	15	12	17	14	13	70	24
NA	Buckeye Brk @ Warner Rd	15	17	10	18	11	111	30
NA	Buckeye Brk @ Mill Cove	14	11	14	12	9	43	17
WD	Falls R. D - Step Stone	35	106	52	48	14	35	48
WD	Falls R. C - Austin Farm	15	46	22	7	10	25	21
WD	Falls R. B - Sand Banks	18	42	13	7	ND	31	19
WD	Falls R. A - Twin Bridges	15	36	11	8	ND	20	15
TH	Moosup Upstream	7	11	7	6	ND	13	8
TH	Moosup A - Fairbanks	6	22	11	8	ND	28	13
TH	Moosup B - Trestle Trail	7	15	10	9	5	7	9
M	Moshassuck River - Collyer Field	10	20	17	-	13	49	22
PE	NR 01- Gilbert Stuart	ND	5	ND	8	ND	-	4
PE	NR 02 - Upper Pond 0.5M	5	5	12	8	13	-	9
PE	NR 02 - Upper Pond 3.0M	7	7	6	9	11	-	8
PE	NR 03 - Lower Pond A 0.5M	7	5	6	10	9	-	7
PE	NR 03 - Lower Pond A 3.0M	7	7	6	12	17	-	10
PE	NR 04 - Lower Pond B 0.5M	5	6	5	9	1115	-	228
PE	NR 04 - Lower Pond B 3.0M	12	8	7	10	80	-	23
PE	NR 05 - Lacey Bridge	6	6	6	8	10	-	7
PE	NR 06 - Mettatuxet Beach	6	-	6	-	9	-	7
PE	NR 07 - End of Narrows	6	6	8	10	11	-	8
PE	NR 08 - Middlebridge	7	8	8	12	13	-	10
PE	NR 09 - Pettaquamscutt	11	-	28	49	-	-	29
PE	NR 10 - Sprague Bridge	8	14	14	31	34	-	20
PE	NR 11 - Mettatuxet Brook	ND	9	7	12	559	-	118
PE	NR 12 - Mumford Brook	ND	6	14	25	14	-	12
PE	NR 15 - Crooked Brook Farm	6	44	-	-	-	9	20
PE	NR 16 - Crooked Brook School	9	43	-	-	-	5	19

Narrow River sites #2 - #9 are estuarine sites that are more strongly influenced by nitrogen than phosphorus

ND = No Detect; Limit of Detection = 4 ppb

Mean calculated using half the limit of detection (2 ppb) for ND

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Watershed	LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Code	RIVERS	-- (ug/l or ppb) --						
WD	Pawcatuck River @ Avondale 0.5M	10	28	11	30	19	32	22
WD	Pawcatuck River @ Avondale 3.0M	18	21	21	37	34	35	28
WD	Queen Riv. @ Wm Reynolds Rd. (Brownell's)	4	5	4	11	-	-	6
WD	Queen River @ Sand Bridge (TNC)	4	7	6	13	ND	ND	6
WD	Queen River @ Locke Brk	-	4	4	9	ND	22	8
WD	Queen River @ Sherman Brk	4	5	5	9	ND	66	15
WD	Shunock River @ Babcock	5	-	5	-	-	5	5
WD	Shunock River @ Hewitt	4	-	5	-	-	6	5
WO	Woonasquatucket R @ Cricket Park	-	17	239	655	754	90	351
WO	Woonasquatucket R @ Donigian Park	25	69	73	45	42	134	65

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Watershed	LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Code	TRIBUTARIES	-- (ug/l or ppb) --						
WD	Asseconk Swamp	-	-	55	-	-	34	45
WD	Barber - Mud Brook	4	5	5	16	-	1220	250
A	Belleville @ RR Xing	14	-	22	-	-	46	27
A	Belleville @ Sluiceway	4	-	ND	-	-	5	4
PE	Carr Inlet (NK)	6	-	4	-	ND	-	4
WO	Georgiaville @ Capron Pond	ND	5	-	11	-	5	6
WO	Georgeville @ Harris	ND	ND	-	8	-	11	6
GB	Greenwich Bay - 01 (Maskerchugg River)	ND	10	5	ND	ND	8	5
GB	Greenwich Bay - 02 (Gorton Pond outflow)	ND	10	9	26	ND	11	10
GB	Greenwich Bay - 03 (Hardig Brook @ Rte 115)	ND	10	8	8	5	13	8
GB	Greenwich Bay - 04 (Mill Creek)	8	6	8	5	ND	45	12
GB	Greenwich Bay - 05 (Hardig Brk @ Health Ctr)	ND	8	5	9	5	36	11
GB	Greenwich Bay - 06 (Tuscatucket Brook)	5	10	8	10	ND	10	8
GB	Greenwich Bay - 07 (Southern Creek)	10	5	17	5	5	35	13
WD	Locv – Brushy Brook @ Sawmill	4	-	5	-	-	-	5
WD	Locv – Brushy Brook @ Woody	4	-	6	-	-	-	5
WD	Locv – Moscow Brook @ Sawmill	4	-	4	-	-	-	4
SK	Nanaqua. Trib @ Quaket Brorok	10	42	40	134	-	ND	46
SK	Nanaqua. Trib @ Sin & Flesh Brook	5	14	45	82	-	14	32
SK	Nanaqua. Trib @ White Wine Brook	13	9	58	99	-	12	38
WD	Pasquisett Tributary	4	-	5	-	-	ND	4
H	Saw Mill Tributary	10	-	-	17	59	60	37

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Watershed	LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Code	TRIBUTARIES (continued)	-- (ug/l or ppb) --						
A	Secret - Oak Hill Brook West	ND	-	4	-	-	5	4
A	Secret - Oak Hill Brook East	-	-	11	-	-	17	14
A	Secret - Shore Dr.	-	-	6	-	-	9	8
WD	Shickasheen @ Rte 2	9	51	77	-	-	-	46
WD	Shickasheen @ Miskiania Road	9	32	26	18	13	50	25
WD	Shickasheen @ Potter Road	8	16	25	13	13	52	21
WD	Shickasheen @ Barber Pond outlet	-	4	4	7	-	-	5
B	Smith & Sayles - Keech Brook	-	-	ND	-	-	-	-
B	Smith & Sayles - Balcom Brook	-	-	5	-	-	-	-
B	Smith & Sayles - O'Donnel Brook	-	-	ND	-	-	-	-
TA	Stafford Inlet - Downstream	-	245	1131	-	-	-	688
TA	Stafford Pond - NE Cove	-	5	ND	-	ND	-	3
WD	Watchaug - Perry Healy	ND	-	7	-	-	5	5
WD	Waterman @ Rte 44	ND	-	9	-	-	6	6
WO	Waterman @ Saw Mill	5	-	5	-	-	6	5
WO	Waterman @ Golf Course	4	-	8	-	-	7	6
WO	Waterman @ Aldrich	5	-	4	-	-	6	5
WD	White Brook Pond Inlet	-	30	87	-	-	-	59

Watershed	LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Code	WPWA - TRIBUTARIES	-- (ug/l or ppb) --						
WD	Ashaway River @ Rte 216	-	9	9	13	ND	6	8
WD	Chipuxet Brook @ Rte 138	5	6	7	8	ND	ND	5
WD	Fisherville Brook	4	5	4	6	ND	7	5
WD	Glen Rock Brook	4	5	4	6	ND	ND	4
WD	Pawcatuck River @ Biscuit City Rd.	-	13	6	8	ND	-	7
WD	Pawcatuck River @ Burdickville Rd	9	94	44	120	92	ND	60
WD	Pawcatuck River below Kenyon Ind.	32	66	132	344	83	8	111
WD	Pawcatuck River @ Rte 91	18	69	120	213	170	174	127
WD	Queen River @ Mail Rd	-	8	6	8	ND	7	6
WD	Queen River @ Rte 102	5	5	6	8	ND	ND	5
WD	Taney Brook	16	100	106	134	93	5	76
WD	Tomaquag Brook @ Woodville Rd.	4	4	7	-	-	31	12
WD	Usquepaugh River @ Rte 2	6	5	6	15	ND	5	7

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