

2007 Parameter Data: Total Phosphorus in Lakes, Ponds, and Reservoirs

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. Measurement of total phosphorus includes readily available dissolved phosphorus, as well as particulate phosphorus and organic forms of phosphorus such as that making up algae. Phosphorus readily binds to lake sediments, but can be released back into the water column if there is no oxygen in the bottom waters of the lake. That process is known as internal phosphorus recycling, and can cause late summer or early fall algae blooms when lakes destratify.

Watershed code	LOCATION	Sample Depth (m)	-- (ug/l or ppb) --							MEAN
			MAY	JUNE	JULY	AUG.	SEPT.	OCT.		
WD	ALTON POND	1	15	-	16	-	-	9	13	
S	ASA POND	1	21	-	23	-	-	12	19	
WD	BARBER POND	1	-	17	21	-	-	-	19	
WD	BARBER POND	4.5	-	17	17	-	-	-	17	
A	BELLEVILLE POND - LOWER	1	30	-	24	-	-	9	21	
A	BELLEVILLE POND - UPPER	0.5	60	-	125	-	-	-	93	
TH	BILLINGS LAKE (CT)	1	6	-	8	-	-	10	8	
TH	BILLINGS LAKE (CT)	7	-	-	9	-	-	12	11	
PA	BLACKAMORE POND	1	29	-	66	-	-	31	42	
TH	BLUE LAKE	1	34	-	26	-	-	12	24	
WD	BOONE LAKE	1	8	-	9	-	-	11	9	
WD	BOONE LAKE	5	7	-	10	-	-	12	10	
TH	BOWDISH RESERVOIR	1	6	-	12	-	10	-	9	
WD	BREAKHEART POND	1	31	-	-	12	-	6	16	
TH	CARBUNCLE POND	1	10	-	-	10	-	24	15	
TH	CARBUNCLE POND	6.5	19	-	-	17	-	15	17	
PE	CARR POND (NK)	1	12	-	13	-	-	-	13	
PE	CARR POND (NK)	4.5	21	-	16	-	-	-	19	
PA	CARR POND (WG)	1	5	-	4	-	-	3	4	
PA	CARR POND (WG)	9	3	-	9	-	-	10	7	
R	CENTRAL POND (Turner Reservoir-north)	1	128	-	-	-	-	86	107	
WD	CHAPMAN POND	1	13	-	20	-	-	-	17	
CW	DEEP POND	1	5	-	23	-	-	18	15	
CW	DEEP POND	5	10	-	25	-	-	25	20	
WD	EISENHOWER LAKE	1	7	-	11	-	-	7	8	
PA	FLAT RIVER RESERVOIR	1	11	-	9	8	-	-	9	
PA	FLAT RIVER RESERVOIR	7	7	-	12	9	-	-	9	

ND = No Detect; Limit of Detection = 3 ppb

Mean calculated using half the limit of detection (1.5 ppb) for ND

Low TP (Oligotrophic) < 12 ppb; Moderate TP (Mesotrophic) 12 - 24 ppb; Elevated TP (Eutrophic) > 24 ppb

Extremely elevated (Hypereutrophic) ≥ 67 ppb

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		Depth (m)							
			-- (ug/l or ppb) --						
WO	GEORGIAVILLE POND	1	14	-	8	-	-	12	11
WO	GEORGIAVILLE POND	6	13	-	24	-	-	4	14
NA	GORTON POND	1	27	-	-	-	-	18	23
NA	GORTON POND	10	50	-	357	-	-	93	167
B	HANDY POND	1	14	-	25	-	-	28	22
WO	HAWKINS POND	1	10	-	15	-	-	8	11
WD	HUNDRED ACRE POND	1	20	-	19	-	-	19	19
WD	HUNDRED ACRE POND	6	-	-	10	-	-	5	8
S	INDIAN LAKE	1	15	-	17	-	-	11	14
B	KEECH POND	1	8	-	16	-	-	6	10
WD	LARKIN POND	1	-	14	16	-	-	-	15
WD	LARKIN POND	8	-	19	81	-	-	-	50
CE	LILY POND	1	33	-	67	-	-	48	49
PA	LITTLE POND	1	16	-	12	14	-	13	14
PA	LITTLE POND	5	17	-	18	17	-	13	16
WD	LOCUSTVILLE POND	1	9	-	19	-	-	8	12
S	LONG POND (SK)	1	16	-	9	-	-	12	12
S	LONG POND (SK)	7	-	-	13	-	-	24	19
WD	MEADOWBROOK POND	1	17	-	17	-	-	22	19
NA	MELVILLE P - UPPER	1	46	-	42	-	-	68	52
PA	MISHNOCK LAKE	1	17	-	10	7	-	9	11
PA	MISHNOCK LAKE	4	21	-	9	8	-	9	12
PA	MISHNOCK LAKE - LITTLE	1	14	-	12	10	-	9	11
PA	PONAGANSETT RESERVOIR	1	7	-	5	-	-	5	6
PA	PONAGANSETT RESERVOIR	9	23	-	8	-	-	22	18
NA	PRINCE'S POND	1	45	-	203	-	-	60	103
NA	PRINCE'S POND	3	52	-	202	-	-	102	119
WD	QUEEN @ USQUEPAUGH (Glen Rock Reservoir)	1	12	-	14	-	-	11	12
PA	RANDALL POND	1	17	-	16	-	-	18	17
PA	SAND POND	1	16	-	18	-	-	16	17
PA	SAND POND	7	13	-	67	-	-	46	42
S	SAUGATUCKET POND	1	9	-	11	-	-	11	10

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			-- (ug/l or ppb) --						
CW	SCHOOLHOUSE P. - LOWER	1	4	-	8	-	-	11	8
CW	SCHOOLHOUSE P.D - LOWER	6+	-	-	-	-	-	contam	
CW	SCHOOLHOUSE P. - UPPER	1	4	-	6	-	-	19	10
CW	SCHOOLHOUSE P.D - UPPER	6+	-	-	-	-	-	21	21
B	SCOTT POND	1	35	-	20	-	-	60	38
B	SCOTT POND	9	-	-	176	-	-	230	203
A	SECRET LAKE	1	8	-	8	-	-	9	8
S	SILVER LAKE	1	15	-	11	13	9	11	12
S	SILVER LAKE	7	43	-	20	16	30	58	33
PE	SILVER SPRING LAKE	1	29	-	12	-	-	82	41
CE	SIMMONS MILL POND	1	11	-	22	-	-	16	16
WO	SLACK'S RESERVOIR	1	14	-	16	-	-	21	17
WO	SLACK'S RESERVOIR	4	15	-	15	16	-	18	16
TE	SLATER POND	1	48	-	210	-	199	m by botto	152
B	SLATERSVILLE RES - UPPER	1	19	-	16	-	-	17	17
B	SLATERSVILLE RES - UPPER	5.5	12	-	6	-	-	17	12
B	SMITH & SAYLES RESERVOIR	1	14	-	10	6	-	-	10
WD	SPALDING POND	1	22	-	41	-	-	19	27
PA	SPECTACLE POND	1	52	-	70	97	-	26	61
PA	SPECTACLE POND	4	68	-	36	18	-	367	122
B	SPRING GROVE POND	1	11	-	11	-	-	4	9
B	SPRING LAKE	1	5	-	25	-	-	10	13
B	SPRING LAKE	5	6	-	10	10	-	10	9
TA	STAFFORD POND	1	15	-	21	-	-	28	21
TA	STAFFORD POND	7	29	-	100	-	-	30	53
PA	TIOGUE LAKE	1	22	-	15	22	-	10	17
WD	TUCKER POND	1	16	-	29	23	-	15	21
WD	TUCKER POND	7.5	30	-	35	-	-	11	25
PA	UPPER DAM POND	1	17	-	20	-	-	60	32
B	VALLEY FALLS POND	0.5	141	-	189	-	-	194	175
B	WALLUM LAKE	1	8	-	6	-	-	7	7
B	WALLUM LAKE	5	6	-	6	-	-	3	5
NA	WARWICK POND	1	31	-	29	23	-	19	26
NA	WARWICK POND	5.5	23	-	12	27	-	27	22

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			-- (ug/l or ppb) --						
WD	WATCHAUG POND	1	12	-	15	-	-	-	14
WD	WATCHAUG POND	10	9	-	13	-	-	-	11
WO	WATERMAN RESERVOIR	1	8	-	23	-	-	12	14
NA	WESQUAGE POND	1	26	-	33	-	-	34	31
WD	WHITE POND	1	14	-	7	-	-	7	9
WD	WHITE POND	8	13	-	6	-	-	16	12
WD	WINCHECK POND	1	3	-	8	8	-	6	6
WD	WINCHECK POND	5	5	-	9	11	-	7	8
WO	WOONASQUA - STUMP	1	10	-	16	-	-	4	10
WD	WORDEN POND	1	14	-	-	46	-	26	29
WD	WYASSUP LAKE	1	9	-	16	-	-	8	11
WD	YAWGOO POND	1	19	14	18	17	26	23	20
WD	YAWGOO POND	10	10	17	39	60	52	21	33

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