

2006 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)	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
			-- (ug/l or ppb) --						
WD	ALTON POND	1	13	-	22	-	-	-	18
S	ASA POND	1	23	-	123	-	-	-	73
WD	BARBER POND	1	16	-	23	-	-	24	21
WD	BARBER POND	4.5	-	-	25	-	-	-	25
A	BELLEVILLE POND - LOWEF	1	31	-	21	-	-	-	26
A	BELLEVILLE POND - UPPER	0.5	-	38	32	-	-	-	35
PA	BLACKAMORE POND	1	28	-	39	-	-	42	36
TH	BLUE LAKE	1	74	-	ND	-	-	12	29
WD	BOONE LAKE	1	5	-	10	-	-	13	9
WD	BOONE LAKE	5	7	-	7	-	-	10	8
TH	BOWDISH RESERVOIR	1	11	-	ND	-	7	-	7
WD	BROWNING MILL POND	1	8	-	10	-	-	8	9
TH	CARBUNCLE POND	1	15	-	ND	12	-	12	10
TH	CARBUNCLE POND	6.5	11	-	ND	23	-	12	12
PE	CARR POND (NK)	1	15	-	14	-	-	12	14
PE	CARR POND (NK)	4.5	15	-	15	-	-	13	14
PA	CARR POND (WG)	1	5	-	6	-	-	5	5
PA	CARR POND (WG)	9	7	-	13	-	-	13	11
TH	CLARKVILLE POND	1	6	-	7	-	-	7	7
CW	DEEP POND	1	9	-	8	-	-	10	9
CW	DEEP POND	5	11	-	15	-	-	34	20
PA	FENNER POND	1	35	-	30	-	-	61	42
PA	FLAT RIVER RESERVOIR	1	9	-	15	-	-	9	11
PA	FLAT RIVER RESERVOIR	7	15	-	14	-	-	contaminated	15
WO	GEORGIAVILLE POND	1	11	-	6	-	-	10	9
WO	GEORGIAVILLE POND	6	15	-	ND	-	-	17	11
NA	GORTON POND	1	-	34	14	25	-	18	23
NA	GORTON POND	10	-	91	134	140	-	101	117
WO	HAWKINS POND	1	12	-	10	-	-	15	12
WD	HUNDRED ACRE POND	1	43	-	12	-	-	27	27
WD	HUNDRED ACRE POND	6	12	-	6	-	-	17	12

ND = No Detect; Limit of Detection = 4 ppb

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

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			-- (ug/l or ppb) --						
S	INDIAN LAKE	1	14	-	13	-	-	8	11.66667
B	KEECH POND	1	-	15	21	-	-	12	16
CE	LILY POND	1	23	-	17	-	-	-	20
PA	LITTLE POND	1	16	-	11	34	-	19	20
PA	LITTLE POND	5	13	-	13	32	-	24	21
WD	LOCUSTVILLE POND	1	8	-	5	-	-	15	9
S	LONG POND (SK)	1	8	-	10	-	-	8	9
S	LONG POND (SK)	7	-	-	-	-	-	-	
WD	MEADOWBROOK POND	1	11	-	35	-	-	20	22
NA	MELVILLE P - UPPER	1	25	-	18	-	-	52	32
PA	MESHANICUT POND	0.5	19	-	18	-	-	52	30
PA	MISHNOCK LAKE	1	8	-	8	10	-	8	9
PA	MISHNOCK LAKE	4	8	-	23	16	-	15	16
SK	NANAQUAKET POND	1	33	-	112	-	-	90	78
PA	OAK SWAMP RES.	1	12	-	12	-	-	-	12
B	PASCOAG RESERVOIR	1	6	-	ND	-	-	8	5
B	PASCOAG RESERVOIR	4	8	-	5	-	-	10	8
WD	PASQUISETT POND	1	15	-	28	-	-	28	24
PA	PONAGANSETT RESERVOIR	1	5	-	ND	12	-	13	8
PA	PONAGANSETT RESERVOIR	9	6	-	13	14	-	66	25
NA	PRINCE'S POND	1	24	-	50	-	-	122	65
NA	PRINCE'S POND	3	51	-	151	-	-	184	129
PA	PRINTWORKS POND		14	-	16	-	-	21	17
WD	QUEEN @ USQUEPAUGH (Glen Rock Res.)	1	11	-	25	-	-	11	16
PA	RANDALL POND	1	16	-	22	-	-	21	20
PA	SAND POND	1	24	-	23	27	-	29	26
PA	SAND POND	7	97	-	130	251	-	207	171
S	SAUGATUCKET POND	1	12	-	15	-	-	14	14
CW	SCHOOLHOUSE POND - LO	1	13	-	7	-	-	4	8
CW	SCHOOLHOUSE POND - LO	6+	5	-	11	-	-	-	8
CW	SCHOOLHOUSE POND - UP	1	5	-	8	-	-	5	6
CW	SCHOOLHOUSE POND - UP	6+	ND	-	15	-	-	-	9
B	SCOTT POND	1	49	-	12	-	-	65	42
B	SCOTT POND	9	28	-	190	-	-	-	109
A	SECRET LAKE	1	7	-	15	-	-	7	10

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			-- (ug/l or ppb) --						
S	SILVER LAKE	1	9	-	7	-	-	31	16
S	SILVER LAKE	7	5	-	45	-	-	1746	599
PE	SILVER SPRING LAKE	1	12	-	6	-	-	13	10
WO	SLACK'S RESERVOIR	1	-	-	11	-	-	15	13
WO	SLACK'S RESERVOIR	4	-	-	11	-	-	-	-
TE	SLATER POND	1	32	-	44	-	-	contaminated	38
B	SLATERSVILLE RESERVOIF	1	-	22	10	-	-	20	17
B	SLATERSVILLE RESERVOIF	5.5	-	24	6	-	-	23	18
B	SMITH & SAYLES RESERVC	1	-	-	-	-	-	-	-
WD	SPALDING POND	1	12	-	24	-	-	47	28
PA	SPECTACLE POND	1	26	-	35	-	-	59	40
B	SPRING GROVE POND	1	8	-	9	-	-	9	9
B	SPRING LAKE	1	7	-	14	-	-	11	11
B	SPRING LAKE	5	10	-	18	-	-	18	15
TA	STAFFORD POND	1	-	21	31	26	-	16	24
TA	STAFFORD POND	7	-	29	79	27	-	22	39
B	TARKILN POND	1	125	-	-	-	-	-	-
PA	TIOGUE LAKE	1	11	-	24	-	-	9	15
WD	TUCKER POND	1	13	-	-	21	-	19	18
WD	TUCKER POND	7.5	24	-	-	69	-	24	39
PA	UPPER DAM POND	1	12	-	25	-	-	16	18
B	VALLEY FALLS POND	0.5	75	-	118	-	-	133	109
NA	WARWICK POND	1	22	-	39	-	-	39	33
NA	WARWICK POND	5.5	359	-	9	-	-	42	137
WD	WATCHAUG POND	1	8	-	11	21	-	14	14
WD	WATCHAUG POND	10	13	-	22	16	-	15	17
WO	WATERMAN RESERVOIR	1	14	-	9	-	-	12	12
NA	WESQUAGE POND	1	11	-	32	-	-	32	25
WD	WHITE BROOK POND	1	39	-	68	53	-	60	55
WD	WINCHECK POND	1	21	-	-	-	-	-	-
WD	WINCHECK POND	5	16	-	-	-	-	-	-
WO	WOONASQUA - STUMP	1	-	22	10	-	-	10	14
WD	WORDEN POND	1	18	-	ND	-	-	21	14
WD	WYASSUP LAKE	1	13	-	16	-	-	14	14
WD	WYOMING POND	1	-	-	26	-	-	-	-
WD	YAWGOO POND	1	12	15	23	20	16	33	20
WD	YAWGOO POND	10	20	49	51	367	220	25	122

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