

2006 Parameter Data: Dissolved 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. 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 code	LOCATION	Sample Depth (m)	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
			-- (ug/l or ppb) --						
WD	ALTON POND	1	9	-	16	-	-	-	13
S	ASA POND	1	5	-	32	-	-	-	19
WD	BARBER POND	1	ND	-	5	-	-	ND	3
WD	BARBER POND	4.5	-	-	31	-	-	-	31
A	BELLEVILLE POND - LOWEF	1	5	-	17	-	-	-	11
A	BELLEVILLE POND - UPPER	0.5	-	7	5	-	-	-	6
PA	BLACKAMORE POND	1	ND	-	ND	-	-	ND	ND
TH	BLUE LAKE	1	7	-	ND	-	-	ND	4
WD	BOONE LAKE	1	ND	-	ND	-	-	ND	ND
WD	BOONE LAKE	5	ND	-	7	-	-	ND	4
TH	BOWDISH RESERVOIR	1	ND	-	ND	-	ND	-	ND
WD	BROWNING MILL POND	1	ND	-	ND	-	-	ND	ND
TH	CARBUNCLE POND	1	ND	-	8	ND	-	ND	4
TH	CARBUNCLE POND	6.5	ND	-	5	7	-	ND	4
PE	CARR POND (NK)	1	7	-	ND	-	-	ND	4
PE	CARR POND (NK)	4.5	ND	-	5	-	-	ND	3
PA	CARR POND (WG)	1	ND	-	ND	-	-	ND	ND
PA	CARR POND (WG)	9	ND	-	ND	-	-	ND	ND
TH	CLARKVILLE POND	1	ND	-	ND	-	-	ND	ND
CW	DEEP POND	1	6	-	5	-	-	ND	4
CW	DEEP POND	5	ND	-	5	-	-	ND	3
PA	FENNER POND	1	ND	-	4	-	-	7	4
PA	FLAT RIVER RESERVOIR	1	ND	-	ND	-	-	ND	ND
PA	FLAT RIVER RESERVOIR	7	ND	-	ND	-	-	ND	ND
WO	GEORGIAVILLE POND	1	ND	-	ND	-	-	ND	ND
WO	GEORGIAVILLE POND	6	ND	-	ND	-	-	ND	ND
NA	GORTON POND	1	-	ND	ND	ND	-	ND	ND
NA	GORTON POND	10	-	51	101	75	-	70	74
WO	HAWKINS POND	1	ND	-	ND	-	-	ND	ND
WD	HUNDRED ACRE POND	1	ND	-	4	-	-	ND	3
WD	HUNDRED ACRE POND	6	ND	-	8	-	-	5	5

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 code	LOCATION	Sample Depth (m)	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
			-- (ug/l or ppb) --						
S	INDIAN LAKE	1	ND	-	ND	-	-	ND	ND
B	KEECH POND	1	-	ND	6	-	-	ND	3
CE	LILY POND	1	ND	-	ND	-	-	-	ND
PA	LITTLE POND	1	ND	-	ND	5	-	ND	3
PA	LITTLE POND	5	ND	-	ND	12	-	ND	5
WD	LOCUSTVILLE POND	1	ND	-	ND	-	-	ND	ND
S	LONG POND (SK)	1	ND	-	ND	-	-	ND	ND
S	LONG POND (SK)	7	-	-	-	-	-	-	
WD	MEADOWBROOK POND	1	ND	-	ND	-	-	ND	ND
NA	MELVILLE P - UPPER	1	8	-	ND	-	-	14	8
PA	MESHANICUT POND	0.5	ND	-	ND	-	-	15	6
PA	MISHNOCK LAKE	1	ND	-	ND	ND	-	ND	ND
PA	MISHNOCK LAKE	4	ND	-	ND	4	-	7	4
SK	NANAQUAKET POND	1	18	-	46	-	-	65	43
PA	OAK SWAMP RES.	1	ND	-	ND	-	-	-	ND
B	PASCOAG RESERVOIR	1	ND	-	ND	-	-	ND	ND
B	PASCOAG RESERVOIR	4	ND	-	ND	-	-	ND	ND
WD	PASQUISETT POND	1	6	-	13	-	-	16	12
PA	PONAGANSETT RESERVOIR	1	ND	-	ND	ND	-	ND	ND
PA	PONAGANSETT RESERVOIR	9	ND	-	ND	ND	-	ND	ND
NA	PRINCE'S POND	1	7	-	ND	-	-	17	9
NA	PRINCE'S POND	3	5	-	132	-	-	90	76
PA	PRINTWORKS POND		8	-	7	-	-	8	8
WD	QUEEN @ USQUEPAUGH (Glen Rock Res.)	1	ND	-	8	-	-	4	5
PA	RANDALL POND	1	ND	-	ND	-	-	ND	ND
PA	SAND POND	1	8	-	ND	ND	-	6	5
PA	SAND POND	7	ND	-	57	49	-	86	49
S	SAUGATUCKET POND	1	ND	-	11	-	-	5	6
CW	SCHOOLHOUSE POND - LO	1	ND	-	ND	-	-	ND	ND
CW	SCHOOLHOUSE POND - LO	6+	ND	-	ND	-	-	-	ND
CW	SCHOOLHOUSE POND - UP	1	ND	-	ND	-	-	ND	ND
CW	SCHOOLHOUSE POND - UP	6+	ND	-	ND	-	-	-	ND
B	SCOTT POND	1	13	-	6	-	-	ND	7
B	SCOTT POND	9	6	-	198	-	-	-	102
A	SECRET LAKE	1	ND	-	ND	-	-	ND	ND

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			-- (ug/l or ppb) --						
S	SILVER LAKE	1	ND	-	ND	-	-	ND	ND
S	SILVER LAKE	7	ND	-	ND	-	-	1744	583
PE	SILVER SPRING LAKE	1	ND	-	4	-	-	6	4
WO	SLACK'S RESERVOIR	1	-	-	ND	-	-	ND	ND
WO	SLACK'S RESERVOIR	4	-	-	8	-	-	-	8
TE	SLATER POND	1	6	-	7	-	-	4	6
B	SLATERSVILLE RESERVOIF	1	-	5	ND	-	-	ND	3
B	SLATERSVILLE RESERVOIF	5.5	-	8	7	-	-	ND	6
B	SMITH & SAYLES RESERVC	1	-	-	-	-	-	-	-
WD	SPALDING POND	1	ND	-	15	-	-	13	10
PA	SPECTACLE POND	1	ND	-	ND	-	-	7	4
B	SPRING GROVE POND	1	ND	-	ND	-	-	ND	ND
B	SPRING LAKE	1	ND	-	ND	-	-	ND	ND
B	SPRING LAKE	5	ND	-	ND	-	-	ND	ND
TA	STAFFORD POND	1	-	ND	ND	ND	-	ND	ND
TA	STAFFORD POND	7	-	13	19	ND	-	ND	9
B	TARKILN POND	1	ND	-	-	-	-	-	ND
PA	TIOGUE LAKE	1	ND	-	ND	-	-	8	4
WD	TUCKER POND	1	ND	-	-	4	-	4	3
WD	TUCKER POND	7.5	ND	-	-	90	-	13	35
PA	UPPER DAM POND	1	ND	-	ND	-	-	ND	ND
B	VALLEY FALLS POND	0.5	24	-	55	-	-	34	38
NA	WARWICK POND	1	ND	-	ND	-	-	ND	ND
NA	WARWICK POND	5.5	273	-	6	-	-	ND	94
WD	WATCHAUG POND	1	ND	-	4	5	-	ND	3
WD	WATCHAUG POND	10	ND	-	19	ND	-	ND	6
WO	WATERMAN RESERVOIR	1	ND	-	ND	-	-	ND	ND
NA	WESQUAGE POND	1	ND	-	ND	-	-	ND	ND
WD	WHITE BROOK POND	1	19	-	65	24	-	29	34
WD	WINCHECK POND	1	ND	-	-	-	-	-	ND
WD	WINCHECK POND	5	5	-	-	-	-	-	5
WO	WOONASQUA - STUMP	1	-	5	ND	-	-	ND	3
WD	WORDEN POND	1	ND	-	ND	-	-	ND	ND
WD	WYASSUP LAKE	1	ND	-	ND	-	-	ND	ND
WD	WYOMING POND	1	-	-	4	-	-	-	4
WD	YAWGOO POND	1	ND	ND	4	ND	ND	7	3
WD	YAWGOO POND	10	11	27	30	270	222	4	94

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