

2005 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)	Sample							MEAN
			MAY	JUNE	JULY	AUG.	SEPT.	OCT.		
-- (ug/l or ppb) --										
CE	ALMY POND	0.5	17	-	-	-	6	5	9	
WD	ALTON POND	1	4	-	7	-	-	-	6	
TH	ARNOLD POND	1	ND	-	7	-	-	ND	4	
S	ASA POND	1	9	-	6	-	-	-	8	
WD	BARBER POND	1	ND	6	6	7	-	ND	5	
WD	BARBER POND	4.5	4	4	32	20	-	5	13	
A	BELLEVILLE POND - LOWEF	1	4	-	5	-	-	ND	4	
A	BELLEVILLE POND - UPPER	0.5	ND	-	9	-	-	6	6	
PA	BLACKAMORE POND	1	ND	-	4	-	-	5	4	
TH	BLUE LAKE	1	-	-	4	-	-	ND	3	
WD	BOONE LAKE	1	ND	-	ND	-	-	ND	ND	
WD	BOONE LAKE	5	5	-	6	-	-	ND	4	
TH	BOWDISH RESERVOIR	1	6	-	5	-	ND	-	4	
WD	BREAKHEART POND	1	6	-	ND	-	-	-	4	
TH	CARBUNCLE POND	1	9	-	4	-	ND	ND	4	
TH	CARBUNCLE POND	6.5	8	-	31	-	6	ND	12	
PE	CARR POND (NK)	1	5	-	ND	-	ND	ND	3	
PE	CARR POND (NK)	4.5	5	-	5	-	ND	8	5	
PA	CARR POND (WG)	1	4	-	ND	-	-	ND	3	
PA	CARR POND (WG)	9	9	-	ND	-	-	ND	4	
CW	DEEP POND	1	-	4	-	-	ND	ND	3	
CW	DEEP POND	5	-	4	-	-	33	ND	13	
PA	ELM POND	1	-	28	6	12	-	-	15	
PA	ELM POND	2	-	36	5	12	-	-	18	
PA	FENNER POND	1	ND	-	5	-	-	9	5	
PA	FLAT RIVER RESERVOIR	1	ND	-	5	-	-	5	4	
PA	FLAT RIVER RESERVOIR	7	ND	-	4	-	-	5	4	
WO	GEORGIAVILLE POND	1	ND	ND	-	ND	-	ND	ND	
WO	GEORGIAVILLE POND	6	5	7	-	6	-	ND	5	
WO	HAWKINS POND	1	ND	-	4	-	-	ND	3	

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) --						
WD	HUNDRED ACRE POND	1	ND	-	4	-	-	ND	3
WD	HUNDRED ACRE POND	6	12	-	7	-	-	5	8
S	INDIAN LAKE	1	5	-	ND	-	-	ND	3
B	KEECH POND	1	4	-	7	-	-	ND	4
TH	LAKE WASHINGTON	1	4	-	4	-	ND	-	3
CE	LILY POND	1	-	-	17	-	-	ND	10
PA	LITTLE POND	1	4	-	ND	-	ND	5	3
PA	LITTLE POND	5	4	-	4	-	73	6	22
WD	LOCUSTVILLE POND	1	ND	-	ND	-	-	ND	ND
S	LONG POND (SK)	1	ND	-	ND	-	-	ND	ND
S	LONG POND (SK)	7	5	-	4	-	-	ND	4
WD	MEADOWBROOK POND	1	5	-	ND	-	-	ND	3
NA	MELVILLE P - UPPER	1	5	-	6	-	-	6	6
PA	MISHNOCK LAKE	1	ND	-	ND	-	-	5	3
PA	MISHNOCK LAKE	4.5	-	-	ND	-	-	ND	2
SK	NANAQUAKET POND	1	28	-	43	-	-	86	52
B	NICHOLS POND	1	ND	-	5	-	-	-	4
PA	OAK SWAMP RES.	1	ND	-	5	-	-	5	4
B	PASCOAG RESERVOIR	1	ND	-	ND	-	ND	5	3
B	PASCOAG RESERVOIR	4	ND	-	ND	-	ND	ND	2
WD	PASQUISETT POND	1	ND	-	11	-	-	5	6
PA	PLEASURE POND	0.5	-	24	26	24	-	-	25
PA	PONAGANSETT RESERVOIR	1	ND	-	5	-	-	ND	3
PA	PONAGANSETT RESERVOIR	9	6	-	7	-	-	ND	5
NA	PRINCE'S POND	1	8	-	5	-	6	ND	5
NA	PRINCE'S POND	3	10	-	74	-	10	91	46
WD	QUEEN RIVER AT USQUEP/	1	ND	-	6	-	-	5	4
PA	RANDALL POND	1	5	-	13	-	-	5	8
PA	SAND POND	1	5	-	4	-	ND	5	4
PA	SAND POND	7	212	-	7	-	27	ND	62
S	SAUGATUCKET POND	1	5	-	4	-	-	ND	4
CW	SCHOOLHOUSE POND - LO	1	4	-	ND	-	-	ND	3
CW	SCHOOLHOUSE POND - LO	6+	30	-	4	-	-	6	13
CW	SCHOOLHOUSE POND - UP	1	5	-	5	-	-	ND	4
CW	SCHOOLHOUSE POND - UP	6+	7	-	4	-	-	5	5

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			-- (ug/l or ppb) --						
B	SCOTT POND	1	5	-	-	-	-	-	-
B	SCOTT POND	9	77	-	-	-	-	-	-
A	SECRET LAKE	1	ND	-	6	-	-	5	4
S	SILVER LAKE	1	4	-	ND	-	-	7	4
S	SILVER LAKE	7	6	-	6	-	-	4	5
PE	SILVER SPRING LAKE	1	5	-	4	-	-	ND	4
TE	SLATER POND	1	22	-	7	-	ND	5	9
B	SLATERSVILLE RESERVOIF	1	5	-	6	-	-	7	6
B	SLATERSVILLE RESERVOIF	5.5	11	-	9	-	-	6	9
B	SMITH & SAYLES RES.	1	-	-	4	-	-	-	-
WD	SPALDING POND	1	-	-	8	-	-	6	7
PA	SPECTACLE POND	1	6	-	7	-	-	ND	5
B	SPRING GROVE POND	1	ND	-	ND	-	-	5	3
B	SPRING LAKE	1	4	-	ND	-	-	5	4
B	SPRING LAKE	5	4	-	6	-	-	5	5
TA	STAFFORD POND	1	-	ND	ND	-	5	ND	3
TA	STAFFORD POND	7	-	4	7	-	ND	6	5
PA	TARBOX POND	1	4	-	-	-	-	-	-
PA	TIOGUE LAKE	1	5	-	ND	-	-	5	4
WD	TUCKER POND	1	ND	-	ND	-	ND	6	3
WD	TUCKER POND	7.5	ND	-	41	-	38	7	22
PA	UPPER DAM POND	1	10	-	ND	-	-	5	6
B	VALLEY FALLS POND	0.5	47	-	139	-	-	35	74
B	WALLUM LAKE	1	4	-	ND	-	-	-	3
B	WALLUM LAKE	5	-	-	ND	-	-	-	ND
NA	WARWICK POND	1	ND	-	5	-	ND	5	4
NA	WARWICK POND	5.5	4	-	5	-	8	6	6
WD	WATCHAUG POND	1	4	-	5	-	ND	7	5
WD	WATCHAUG POND	10	ND	-	4	-	ND	7	4
WO	WATERMAN RESERVOIR	1	ND	-	4	-	-	5	4
NA	WESQUAGE POND	1	9	5	ND	-	-	5	5
WD	WHITE BROOK POND	0.5	-	14	8	-	-	51	24
S	WHITE POND	1	-	-	4	-	ND	-	3
S	WHITE POND	8+	-	-	5	-	ND	-	4
WD	WINCHECK POND	1	4	-	ND	-	-	-	3
WD	WINCHECK POND	5	5	-	ND	-	-	-	4

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WO	WOONASQUA. RES. - STUM	1	4	-	ND	-	-	6	4	
WD	WORDEN POND	1	4	-	4	-	-	-	4	
WD	WYASSUP LAKE	1	-	-	4	-	-	5	5	
WD	WYASSUP LAKE	7	-	-	-	-	-	ND	-	
WD	WYOMING POND	1	-	5	6	-	-	5	5	
WD	YAWGOO POND	1	6	5	4	20	ND	10	8	
WD	YAWGOO POND	9	6	5	17	213	19	312	95	

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