

## 2007 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 form most readily available taken up by algae and aquatic plants. Thus it is typically found at low levels in systems limited by phosphorus as it much of it has been used up. High levels of dissolved phosphorus are an indication of excess phosphorus (over enrichment) and/or limitation by nitrogen. 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)	Sample							MEAN
			MAY	JUNE	JULY	AUG.	SEPT.	OCT.		
-- (ug/l or ppb) --										
WD	ALTON POND	1	15	-	6	-	-	9	10	
S	ASA POND	1	13	-	4	-	-	5	7	
WD	BARBER POND	1	-	8	5	-	-	-	7	
WD	BARBER POND	4.5	-	ND	ND	-	-	-	2	
A	BELLEVILLE POND - LOWER	1	9	-	5	-	-	3	6	
A	BELLEVILLE POND - UPPER	0.5	15	-	11	-	-	-	13	
TH	BILLINGS LAKE (CT)	1	4	-	4	-	-	3	4	
TH	BILLINGS LAKE (CT)	7	-	-	ND	-	-	ND	2	
PA	BLACKAMORE POND	1	8	-	4	-	-	4	5	
TH	BLUE LAKE	1	7	-	ND	-	-	3	4	
WD	BOONE LAKE	1	8	-	5	-	-	ND	5	
WD	BOONE LAKE	5	7	-	ND	-	-	5	5	
TH	BOWDISH RESERVOIR	1	ND	-	4	-	14	-	7	
WD	BREAKHEART POND	1	8	-	-	12	-	3	8	
TH	CARBUNCLE POND	1	11	-	-	11	-	5	9	
TH	CARBUNCLE POND	6.5	9	-	-	7	-	7	8	
PE	CARR POND (NK)	1	8	-	4	-	-	-	6	
PE	CARR POND (NK)	4.5	8	-	3	-	-	-	6	
PA	CARR POND (WG)	1	ND	-	ND	-	-	4	2	
PA	CARR POND (WG)	9	8	-	10	-	-	9	9	
R	CENTRAL POND (Turner Reservoir-north)	1	57	-	-	-	-	25	41	
WD	CHAPMAN POND	1	9	-	5	-	-	-	7	
CW	DEEP POND	1	4	-	8	-	-	7	6	
CW	DEEP POND	5	7	-	8	-	-	7	7	
WD	EISENHOWER LAKE	1	7	-	ND	-	-	ND	3	
PA	FLAT RIVER RESERVOIR	1	6	-	ND	8	-	-	5	
PA	FLAT RIVER RESERVOIR	7	6	-	10	11	-	-	9	
WO	GEORGIAVILLE POND	1	9	-	4	-	-	ND	5	
WO	GEORGIAVILLE POND	6	10	-	ND	-	-	ND	4	

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			-- (ug/l or ppb) --						
NA	GORTON POND	1	11	-	11	-	-	ND	8
NA	GORTON POND	10	11	-	276	-	-	53	113
B	HANDY POND	1	8	-	3	-	-	3	5
WO	HAWKINS POND	1	6	-	6	-	-	ND	5
WD	HUNDRED ACRE POND	1	8	-	5	-	-	ND	5
WD	HUNDRED ACRE POND	6	-	-	ND	-	-	ND	2
S	INDIAN LAKE	1	8	-	5	-	-	4	6
B	KEECH POND	1	8	-	ND	-	-	4	5
WD	LARKIN POND	1	-	18	8	-	-	-	13
WD	LARKIN POND	8	-	ND	5	-	-	-	3
CE	LILY POND	1	19	-	6	-	-	14	13
PA	LITTLE POND	1	ND	-	ND	4	-	9	4
PA	LITTLE POND	5	11	-	5	11	-	11	10
WD	LOCUSTVILLE POND	1	ND	-	ND	-	-	7	3
S	LONG POND (SK)	1	5	-	9	-	-	9	8
S	LONG POND (SK)	7	-	-	4	-	-	7	6
WD	MEADOWBROOK POND	1	ND	-	18	-	-	6	9
NA	MELVILLE P - UPPER	1	8	-	11	-	-	22	14
PA	MISHNOCK LAKE	1	5	-	4	6	-	ND	4
PA	MISHNOCK LAKE	4	ND	-	6	6	-	3	4
PA	MISHNOCK LAKE - LITTLE	1	ND	-	4	18	-	ND	6
PA	PONAGANSETT RESERVOIR	1	7	-	4	-	-	ND	4
PA	PONAGANSETT RESERVOIR	9	ND	-	5	-	-	ND	3
NA	PRINCE'S POND	1	6	-	8	-	-	5	6
NA	PRINCE'S POND	3	5	-	174	-	-	24	68
WD	QUEEN @ USQUEPAUGH (Glen Rock Reservoir)	1	5	-	15	-	-	5	8
PA	RANDALL POND	1	ND	-	3	-	-	5	3
PA	SAND POND	1	ND	-	4	-	-	5	4
PA	SAND POND	7	15	-	ND	-	-	9	9
S	SAUGATUCKET POND	1	ND	-	5	-	-	7	5
CW	SCHOOLHOUSE POND - LOWER	1	ND	-	ND	-	-	7	3
CW	SCHOOLHOUSE POND - LOWER	6+	-	-	-	-	-	-	-

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CW	SCHOOLHOUSE POND - UPPER	1	ND	-	ND	-	-	19	7
CW	SCHOOLHOUSE POND - UPPER	6+	-	-	-	-	-	18	18
B	SCOTT POND	1	7	-	9	-	-	7	8
B	SCOTT POND	9	-	-	130	-	-	174	152
A	SECRET LAKE	1	7	-	3	-	-	3	4
S	SILVER LAKE	1	9	-	5	7	11	ND	7
S	SILVER LAKE	7	7	-	7	15	14	3	9
PE	SILVER SPRING LAKE	1	16	-	5	-	-	ND	8
CE	SIMMONS MILL POND	1	9	-	ND	-	-	ND	4
WO	SLACK'S RESERVOIR	1	7	-	8	-	-	8	8
WO	SLACK'S RESERVOIR	4	7	-	7	12	-	8	9
TE	SLATER POND	1	10	-	12	-	47	4	18
B	SLATERSVILLE RESERVOIR - UPPER	1	9	-	4	-	-	3	5
B	SLATERSVILLE RESERVOIR - UPPER	5.5	9	-	4	-	-	5	6
B	SMITH & SAYLES RESERVOIR	1	15	-	ND	6	-	-	8
WD	SPALDING POND	1	9	-	9	-	-	4	7
PA	SPECTACLE POND	1	14	-	10	13	-	6	11
PA	SPECTACLE POND	4	ND	-	4	13	-	347	91
B	SPRING GROVE POND	1	7	-	ND	-	-	7	5
B	SPRING LAKE	1	ND	-	4	-	-	9	5
B	SPRING LAKE	5	ND	-	8	7	-	3	5
TA	STAFFORD POND	1	6	-	4	-	-	3	4
TA	STAFFORD POND	7	15	-	18	-	-	5	13
PA	TIOGUE LAKE	1	7	-	7	ND	-	4	5
WD	TUCKER POND	1	8	-	ND	7	-	5	5
WD	TUCKER POND	7.5	14	-	10	-	-	18	14
PA	UPPER DAM POND	1	14	-	11	-	-	9	11
B	VALLEY FALLS POND	0.5	47	-	146	-	-	85	93
B	WALLUM LAKE	1	8	-	ND	-	-	8	6
B	WALLUM LAKE	5	6	-	6	-	-	8	7
NA	WARWICK POND	1	8	-	6	12	-	6	8
NA	WARWICK POND	5.5	13	-	ND	5	-	3	6

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			-- (ug/l or ppb) --						
WD	WATCHAUG POND	1	6	-	5	-	-	-	6
WD	WATCHAUG POND	10	4	-	14	-	-	-	9
WO	WATERMAN RESERVOIR	1	12	-	4	-	-	4	7
NA	WESQUAGE POND	1	8	-	5	-	-	3	5
WD	WHITE POND	1	9	-	ND	-	-	ND	4
WD	WHITE POND	8	5	-	22	-	-	3	10
WD	WINCHECK POND	1	ND	-	ND	8	-	ND	3
WD	WINCHECK POND	5	5	-	11	8	-	ND	6
WO	WOONASQUA - STUMP	1	6	-	4	-	-	ND	4
WD	WORDEN POND	1	7	-	-	9	-	ND	6
WD	WYASSUP LAKE	1	7	-	4	-	-	7	6
WD	YAWGOO POND	1	7	6	ND	5	10	6	6
WD	YAWGOO POND	10	7	9	34	57	30	10	25

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