

## 2005 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 can 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 later released back into the water column if there is no oxygen in the bottom water of the lake. That process is known as internal phosphorus recycling.

Watershed code	LOCATION	Sample Depth (m)	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
			-- (ug/l or ppb) --						
CE	Almy Pond	0.5	201	-	-	-	187	298	<b>229</b>
WD	Alton Pond	1	15	-	16	-	-	-	<b>16</b>
TH	Arnold Pond	1	9	-	15	-	-	16	<b>13</b>
S	Asa Pond	1	30	-	38	-	-	-	<b>34</b>
WD	Barber Pond	1	12	-	12	15	-	12	<b>13</b>
WD	Barber Pond	4.5	20	-	26	62	-	19	<b>32</b>
A	Belleville Pond - Lower	1	24	-	30	-	-	33	<b>29</b>
A	Belleville Pond - upper	0.5	22	-	43	-	-	15	<b>27</b>
PA	Blackamore Pond	1	9	-	26	-	-	28	<b>21</b>
TH	Blue Lake	1	-	-	8	-	-	23	<b>16</b>
WD	Boone Lake	1	6	-	7	-	-	12	<b>8</b>
WD	Boone Lake	5	7	-	8	-	-	13	<b>9</b>
TH	Bowdish Reservoir	1	7	-	7	-	10	-	<b>8</b>
WD	Breakheart Pond	1	6	-	8	-	-	-	<b>7</b>
TH	Carbuncle Pond	1	8	-	9	-	12	15	<b>11</b>
TH	Carbuncle Pond	6.5	19	-	41	-	15	17	<b>23</b>
PE	Carr Pond (NK)	1	9	-	8	-	14	15	<b>12</b>
PE	Carr Pond (NK)	4.5	28	-	42	-	ND	16	<b>22</b>
PA	Carr Pond (WG)	1	4	-	ND	-	-	6	<b>4</b>
PA	Carr Pond (WG)	9	8	-	4	-	-	13	<b>8</b>
CW	Deep Pond	1	-	9	-	-	7	7	<b>8</b>
CW	Deep Pond	5	-	4	-	-	63	13	<b>27</b>
PA	Elm Pond	1	-	72	92	121	-	-	<b>95</b>
PA	Elm Pond	2	-	67	56	171	-	-	<b>98</b>
PA	Fenner Pond	1	25	-	66	-	-	33	<b>41</b>
PA	Flat River Reservoir	1	7	-	6	-	-	7	<b>7</b>
PA	Flat River Reservoir	7	7	-	14	-	-	11	<b>11</b>
WO	Georgiaville Pond	1	20	10	-	18	-	15	<b>16</b>
WO	Georgiaville Pond	6	15	16	-	35	-	31	<b>24</b>
WO	Hawkins Pond	1	6	-	9	-	-	11	<b>9</b>

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	15	-	12	-	-	19	15
WD	Hundred Acre Pond	6	27	-	17	-	-	9	18
S	Indian Lake	1	11	-	18	-	-	14	14
B	Keech Pond	1	10	-	11	-	-	11	11
TH	Lake Washington	1	61	-	42	-	62	-	55
CE	Lily Pond	1	-	-	79	-	-	29	54
PA	Little Pond	1	11	-	10	-	14	13	12
PA	Little Pond	5	26	-	15	-	95	22	40
WD	Locustville Pond	1	10	-	16	-	-	9	12
S	Long Pond (SK)	1	6	-	8	-	-	8	7
S	Long Pond (SK)	7	20	-	9	-	-	13	14
WD	Meadowbrook Pond	1	13	-	27	-	-	33	24
NA	Melville P - Upper	1	36	-	33	-	-	35	35
PA	Mishnock Lake	1	8	-	12	-	-	9	10
PA	Mishnock Lake	4.5	-	-	19	-	-	9	14
SK	Nanaquaket Pond	1	42	-	66	-	-	69	59
B	Nichols Pond	1	11	-	31	-	-	-	21
PA	Oak Swamp Res.	1	9	-	9	-	-	14	11
B	Pascoag Reservoir	1	9	-	4	-	8	7	7
B	Pascoag Reservoir	4	9	-	9	-	13	9	10
WD	Pasquisett Pond	1	13	-	14	-	-	19	15
PA	Pleasure Pond	0.5	-	53	174	194	-	-	140
PA	Ponagansett Reservoir	1	6	-	15	-	-	8	10
PA	Ponagansett Reservoir	9	7	-	19	-	-	9	12
NA	Prince's Pond	1	48	-	36	-	48	69	50
NA	Prince's Pond	3	67	-	90	-	53	113	81
WD	Queen Usquepaugh	1	9	-	17	-	-	11	12
PA	Randall Pond	1	17	-	14	-	-	12	14
PA	Sand Pond	1	31	-	27	-	29	19	27
PA	Sand Pond	7	288	-	39	-	101	60	122
S	Saugatucket Pond	1	9	-	17	-	-	14	13
CW	Schoolhouse Pond - Lower	1	9	-	8	-	-	7	8
CW	Schoolhouse Pond - Lower	6+	54	-	5	-	-	11	23
CW	Schoolhouse Pond - Upper	1	5	-	6	-	-	6	6
CW	Schoolhouse Pond - Upper	6+	43	-	11	-	-	7	20

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			-- (ug/l or ppb) --						
B	Scott Pond	1	61	-	-	-	-	-	-
B	Scott Pond	9	138	-	-	-	-	-	-
A	Secret Lake	1	9	-	8	-	-	45	21
S	Silver Lake	1	19	-	13	-	-	14	15
S	Silver Lake	7	39	-	12	-	-	19	23
PE	Silver Spring Lake	1	22	-	12	-	-	13	16
TE	Slater Pond	1	163	-	57	-	60	37	79
B	Slatersville Reservoir - Upper	1	13	-	19	-	-	53	28
B	Slatersville Reservoir - Upper	5.5	13	-	15	-	-	92	40
B	Smith & Sayles Res.	1	-	-	7	-	-	-	-
WD	Spalding Pond	1	-	-	41	-	-	80	61
PA	Spectacle Pond	1	41	-	74	-	-	37	51
B	Spring Grove Pond	1	10	-	9	-	-	37	19
B	Spring Lake	1	8	-	8	-	-	8	8
B	Spring Lake	5	17	-	15	-	-	16	16
TA	Stafford Pond	1	-	19	21	-	29	30	25
TA	Stafford Pond	7	-	21	56	-	31	27	34
PA	Tarbox Pond	1	6	-	-	-	-	-	-
PA	Tiogue Lake	1	9	-	12	-	-	9	10
WD	Tucker Pond	1	16	-	12	-	24	12	16
WD	Tucker Pond	7.5	14	-	41	-	32	17	26
PA	Upper Dam Pond	1	8	-	26	-	-	20	18
B	Valley Falls Pond	0.5	146	-	280	-	-	71	166
B	Wallum Lake	1	5	-	6	-	-	-	6
B	Wallum Lake	5	-	-	6	-	-	-	-
NA	Warwick Pond	1	28	-	23	-	27	22	25
NA	Warwick Pond	5.5	33	-	26	-	14	21	24
WD	Watchaug Pond	1	18	-	13	-	13	7	13
WD	Watchaug Pond	10	21	-	16	-	12	10	15
WO	Waterman Reservoir	1	8	-	11	-	-	11	10
NA	Wesquage Pond	1	23	29	35	-	-	33	30
WD	White Brook Pond	0.5	-	37	38	-	-	87	54
S	White Pond	1	-	-	11	-	9	-	10
S	White Pond	8+	-	-	8	-	9	-	9
WD	Wincheck Pond	1	9	-	9	-	-	-	9
WD	Wincheck Pond	5	12	-	11	-	-	-	12

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WO	Woonasqua. Res. - Stump	1	12	-	15	-	-	11	13
WD	Worden Pond	1	15	-	24	-	-	-	20
WD	Wyassup Lake	1	-	-	14	-	-	7	11
WD	Wyassup Lake	7	-	-	-	-	-	22	-
WD	Wyoming Pond	1	-	5	18	-	-	26	16
WD	Yawgoo Pond	1	13	9	22	25	58	17	24
WD	Yawgoo Pond	9	-	24	42	300	23	314	141

ND = No Detect; Limit of Detection = 5 ppb  
 Mean calculated using half the limit of detection (2.5 ppb) for ND

