

2004 Parameter Data: Total Phosphorus

**2004 Total Phosphorus Data for 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. Phosphorus readily binds to lake sediments and can be later released back into the water column if there is no oxygen in the bottom water of the lake in a process known as internal recycling.

Watershed	LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
<b>Code</b>	<b>RIVER &amp; BROOK SITES</b>	<b>- - (ug/l or ppb) - -</b>						
CE	Bailey's Brook	28	-	14	39	-	137	<b>55</b>
NA	Buckeye Brook @ Novelty Rd	47	60	13	18	32	12	<b>30</b>
NA	Buckeye Brook @ Lockwood Brk	-	32	46	21	144	107	<b>70</b>
NA	Buckeye Brook @ Warner Rd	-	23	22	48	94	36	<b>45</b>
NA	Buckeye Brook @ Mill Cove	37	49	30	34	116	87	<b>59</b>
WD	Falls River A - Twin Bridges	48	44	26	34	55	37	<b>41</b>
WD	Falls River B - Sand Banks	47	52	27	34	44	40	<b>41</b>
WD	Falls River C - Austin Farm	53	65	30	38	66	46	<b>50</b>
WD	Falls River D - Step Stone	79	150	97	74	70	70	<b>90</b>
WD	Green Falls #1 - Green Falls Rd	-	20	29	12	25	28	<b>23</b>
WD	Green Falls #2 - Putker Rd	-	56	34	34	19	10	<b>31</b>
WD	Green Falls #3 - Clark Falls Rd	-	104	19	26	32	17	<b>40</b>
A	Himes River (NK)	26	45	31	28	21	ND	<b>30</b>
WD	Locv – Brushy Brook @ Sawmill	10	20	13	16	6	13	<b>13</b>
WD	Locv – Brushy Brook @ Woody	12	15	17	16	6	11	<b>13</b>
WD	Locv – Moscow Brook @ Sawmill	10	12	9	13	98	9	<b>25</b>
TH	Moosup River A - Fairbanks	51	32	23	25	29	26	<b>31</b>
TH	Moosup River B - Trestle Trail	14	27	904	20	26	23	<b>169</b>
TH	Moosup River - Upstream	28	35	44	28	21	18	<b>29</b>
PE	NR 01- Gilbert Stuart	16	11	16	15	18	-	<b>15</b>
PE	NR 02 - Upper Pond 0.5M	18	41	48	27	-	-	<b>34</b>
PE	NR 02 - Upper Pond 3.0M	35	47	37	38	-	-	<b>39</b>
PE	NR 03 - Lower Pond A 0.5M	26	30	49	41	54	-	<b>40</b>
PE	NR 03 - Lower Pond A 3.0M	45	36	45	48	81	-	<b>51</b>
PE	NR 04 - Lower Pond B 0.5M	34	27	42	31	64	-	<b>40</b>
PE	NR 04 - Lower Pond B 3.0M	46	35	51	45	76	-	<b>51</b>
PE	NR 05 - Lacey Bridge	33	33	50	43	56	-	<b>43</b>
PE	NR 06 - Mettatuxet Beach	31	32	48	38	62	-	<b>42</b>
PE	NR 07 - End of Narrows	35	32	50	53	56	-	<b>45</b>
PE	NR 08 - Middlebridge	35	46	53	47	66	-	<b>49</b>
PE	NR 09 - Pettaquamscutt	-	-	125	-	67	-	<b>96</b>
PE	NR 10 - Sprague Bridge	46	48	63	47	43	-	<b>49</b>
PE	NR 11 - Mettatuxet Brook	16	61	-	75	58	-	<b>53</b>
PE	NR 12 - Mumford Brook	14	37	31	16	42	-	<b>28</b>

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Mean calculated using half the limit of detection (2.5 ppb) for ND

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Watershed	LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
<b>Code</b>	<b>RIVERS (Continued)</b>	<b>-- (ug/l or ppb) --</b>						
WD	Pawcatuck River - Avondale 0.5M	37	55	48	49	78	67	<b>56</b>
WD	Pawcatuck River - Avondale 3.0M	46	51	51	45	55	-	<b>50</b>
WD	Pawcatuck River - Bradford	42	69	119	45	44	52	<b>62</b>
WD	Queen River @ Brownell's	16	95	20	-	39	10	<b>36</b>
WD	Queen River @ Sand Bridge (TNC)	14	21	15	17	22	20	<b>18</b>
WD	Queen River @ Locke Brk	20	19	13	11	15	7	<b>14</b>
WD	Queen River @ Sherman Brk	9	990	16	152	21	18	<b>201</b>
WD	Shickasheen @ Rte 2	26	89	dry	94	-	30	<b>60</b>
WD	Shickasheen @ Miskiania Road	66	62	53	46	-	34	<b>52</b>
WD	Shickasheen @ Potter Road	72	53	26	40	-	-	<b>48</b>
WD	Shickasheen @ Barber Pond outlet	14	24	22	19	-	14	<b>19</b>
WD	Shickasheen @ Rte 138	14	25	29	28	-	16	<b>22</b>
WD	Shickasheen @ Liberty Lane	-	34	26	29	-	15	<b>26</b>
WD	Shunock River @ Babcock	26	-	45	-	-	55	<b>42</b>
WD	Shunock River @ Hewitt	13	-	38	-	-	18	<b>23</b>
WO	Woonasquatucket River @ Donigian	70	98	104	128	190	85	<b>113</b>

Watershed	LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
<b>Code</b>	<b>TRIBUTARIES</b>	<b>-- (ug/l or ppb) --</b>						
WD	Asseconk Swamp	37	-	56	-	-	90	<b>61</b>
WD	Barber - Mud Brook	60	16	16	20	-	9	<b>24</b>
A	Belleville @ RR Xing	49	-	53	-	-	4	<b>35</b>
A	Belleville @ Sluiceway	15	-	17	-	-	66	<b>33</b>
PE	Carr Inlet (NK)	12	-	16	-	-	22	<b>17</b>
WO	Georgiaville @ Capron Pond	15	-	19	-	-	14	<b>16</b>
WO	Georgeville @ Harris	18	-	125	-	-	17	<b>53</b>
GB	Greenwich Bay - 01 (Maskerchugg River)	12	43	32	15	42	16	<b>27</b>
GB	Greenwich Bay - 02 (Gorton Pond outflow)	58	65	34	18	58	26	<b>43</b>
GB	Greenwich Bay - 03 (Hardig Brook @ Rte 115)	16	155	29	20	105	23	<b>58</b>
GB	Greenwich Bay - 04 (Mill Creek)	-	54	27	25	62	15	<b>37</b>
GB	Greenwich Bay - 05 (Hardig Brk @ Health Ctr)	11	44	24	19	56	23	<b>30</b>
GB	Greenwich Bay - 06 (Tuscatucket Brook)	14	23	33	28	23	11	<b>22</b>
GB	Greenwich Bay - 07 (Southern Creek)	-	196	28	32	160	32	<b>90</b>
WD	Pasquissett Tributary	22	-	-	-	-	23	<b>23</b>
H	Saw Mill Tributary	14	22	15	-	29	14	<b>19</b>
A	Secret - Oak Hill East	17	-	26	-	-	9	<b>17</b>
A	Secret - Oak Hill West	18	-	26	-	-	8	<b>17</b>
A	Secret - Shore Drive	13	-	14	-	-	9	<b>12</b>

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<b>Code</b>	<b>TRIBUTARIES (continued)</b>	<b>-- (ug/l or ppb) --</b>						
B	Smith & Sayles @ Keech	13	-	14	-	-	-	14
B	Smith & Sayles @ Balcom	14	-	13	-	-	10	12
B	Smith & Sayles @ O'Donnel	16	-	11	-	-	-	14
WO	Slack's Tributary A	30	93	18	152	56	99	75
WO	Slack's Tributary B	15	187	40	35	32	31	57
WO	Slack's Tributary C	14	77	69	24	29	37	42
WO	Slack's Tributary D	18	16	20	17	23	38	22
TA	Staf Inlet - Upstream	36	-	dry	-	-	-	-
TA	Staf Inlet - Downstream	194	-	701	-	-	1004	633
TA	Stafford - NE Cove	26	-	32	-	-	31	30
WD	Watchaug - Perry Healy	24	-	-	-	-	-	24
WO	Waterman @ Rte 44	16	-	18	-	-	13	16
WO	Waterman @ Saw Mill	12	-	18	-	-	20	17
WO	Waterman @ Golf Course	17	-	36	-	-	33	29
WO	Waterman @ Aldrich	12	-	19	-	-	11	14
<b>Watershed</b>	<b>LOCATION</b>	<b>MAY</b>	<b>JUNE</b>	<b>JULY</b>	<b>AUG.</b>	<b>SEPT.</b>	<b>OCT.</b>	<b>MEAN</b>
<b>Code</b>	<b>WPWA TRIBUTARIES</b>	<b>-- (ug/l or ppb) --</b>						
WD	Ashaway River @ Rte 216	15	27	18	-	-	-	20
WD	Ashaway River @ Wellstown Rd.	16	35	19	-	-	-	23
WD	Asseconk Brook @ Rte 2	-	52	51	53	-	87	61
WD	Chipuxet Brook @ Rte 138	16	34	28	29	23	35	28
WD	Fisherville Brook	10	23	11	16	14	9	14
WD	Glen Rock Brook	7	14	13	14	20	11	13
WD	Lewis Pond outlet	-	58	35	62	24	50	46
WD	P'tuck River @ Burdickville Rd	39	104	116	59	101	44	77
WD	P'tuck River @ Chase Hill Rd.	50	128	91	59	-	60	78
WD	P'tuck River below Kenyon Ind.	113	145	255	166	168	109	159
WD	P'tuck River @ Rte 91	-	1072	264	110	197	127	354
WD	Queen River @ Mail Rd	17	22	18	30	22	10	20
WD	Queen River @ Rte 102	15	23	46	12	1363	10	245
WD	Shunock River @ Main St	-	29	46	20	29	63	37
WD	Shunock below Parke Pond	-	45	-	29	37	35	37
WD	Taney Brook	37	136	227	274	239	41	159
WD	Tomaquag Brook @ Chase Hill	35	148	34	40	43	31	55
WD	Tomaquag Brook @ Woodville Rd.	13	50	38	14	16	14	24
WD	Usquepaugh River @ Rte 2	-	26	16	18	17	9	17

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