

## 2004 Parameter Data: Nitrate-Nitrogen

**Nitrate-Nitrogen Data for Lakes, Ponds, and Reservoirs**

Nitrate-nitrogen is typically the most common form of inorganic nitrogen in lakes and streams. Nitrate-nitrogen concentrations are monitored in fresh water systems to collect baseline information to document health risks due to consumption of water. The drinking water standard for nitrate-nitrogen is 10 parts per million (ppm). This is equivalent to 10,000 parts per billion (ppb), the units URI Watershed Watch reports this nutrient in. Nitrate-nitrogen levels above 1000 ppb indicate human impact of some sort; from home or agricultural fertilizers, human or animal waste. Nitrate-nitrogen is of particular concern in estuarine or salt water systems as it is the nutrient that stimulates plant and algae growth there, often called the limiting nutrient.

<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>Concentration at 1M</b>	<b>-- (ug/l or ppb) --</b>						
CE	Almy Pond	ND	-	ND	-	-	310	<b>113</b>
WD	Alton Pond	130	-	190	-	-	ND	<b>112</b>
TH	Arnold Pond	ND	-	ND	-	-	ND	<b>ND</b>
WD	Barber Pond	200	-	ND	-	ND	30	<b>65</b>
A	Belleville P - Lower	130	-	ND	-	-	30	<b>58</b>
A	Belleville P - upper	120	-	60	-	-	40	<b>73</b>
PA	Blackamore Pond	970	-	60	-	-	230	<b>420</b>
TH	Bowdish Reservoir	ND	-	ND	-	-	40	<b>23</b>
WD	Breakheart Pond	ND	-	ND	-	-	ND	<b>ND</b>
NA	Brickyard Pond	ND	-	60	-	-	-	<b>38</b>
WD	Browning Mill Pond	90	-	60	-	-	60	<b>70</b>
TH	Carbuncle Pond	210	-	ND	ND	ND	ND	<b>54</b>
PE	Carr Pond (NK)	430	-	150	-	-	ND	<b>198</b>
PA	Carr Pond (WG)	50	-	ND	-	-	ND	<b>27</b>
WD	Chapman Pond	330	-	ND	-	-	-	<b>173</b>
CW	Deep Pond	ND	-	ND	-	-	ND	<b>ND</b>
PA	Fenner Pond	640	-	140	-	-	290	<b>357</b>
PA	Flat River Reservoir	110	-	50	-	-	180	<b>113</b>
WO	Georgiaville Pond	190	-	ND	-	-	80	<b>95</b>
B	Handy Pond	100	-	ND	-	-	30	<b>48</b>
WO	Hawkins Pond	340	-	40	-	-	50	<b>143</b>
WD	Hundred Acre Pond	400	-	240	-	-	90	<b>243</b>
S	Indian Lake	ND	-	ND	-	-	30	<b>20</b>
B	Keech Pond	70	-	ND	-	-	70	<b>52</b>
TH	Lake Washington	80	-	ND	-	ND	-	<b>37</b>
CE	Lily Pond	ND	-	ND	-	-	ND	<b>ND</b>
PA	Little Pond	220	-	ND	-	ND	200	<b>113</b>
WD	Locustville Pond	80	-	-	-	-	-	<b>80</b>
S	Long Pond (SK)	-	ND	ND	-	-	30	<b>20</b>
PA	Mashapaug Pond	ND	-	50	-	-	200	<b>88</b>

ND = No Detect; Limit of Detection = 30 ug/L

Mean calculated using half the limit of detection (15 ug/L) for ND.

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Watershed	LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Code	Concentration at 1M	-- (ug/l or ppb) --						
WD	Meadowbrook Pond	80	-	ND	-	-	80	58
NA	Melville P - Upper	1790	-	ND	-	-	40	615
PA	Mishnock Lake	390	-	210	-	-	210	270
SK	Nanaquaket Pond	100	-	ND	-	-	50	55
PA	Oak Swamp Res.	320	-	ND	-	-	60	132
B	Pascoag Reservoir	40	-	ND	-	-	40	32
WD	Pasquissett Pond	130	-	-	-	-	210	170
NA	Prince's Pond	90	-	ND	-	ND	ND	34
WD	Queen Usquepaugh	190	-	270	-	-	120	193
PA	Randall Pond	ND	-	ND	-	-	30	20
CE	Round Pond	ND	-	ND	-	-	40	23
PA	Sand Pond	130	-	ND	ND	ND	ND	38
S	Saugatucket Pond	260	-	-	-	-	-	260
CW	Schoolhouse P - Lower	ND	-	ND	-	-	ND	ND
CW	Schoolhouse P - Upper	ND	-	ND	-	-	ND	ND
A	Secret Lake	860	-	540	-	-	820	740
S	Silver Lake	80	-	ND	-	-	ND	37
PE	Silver Spring Lake	1200	-	680	-	-	1100	993
CE	Simmon Mills Pond	ND	-	ND	-	-	30	20
TH	Sisson P. (Coventry)	ND	-	50	-	-	ND	27
WO	Slack's Reservoir	390	210	ND	ND	ND	40	114
TE	Slater Pond	ND	-	ND	-	-	30	20
B	Slatersville Res. - U	90	-	ND	170	-	200	119
B	Smith & Sayles Res.	ND	-	ND	-	-	50	27
WD	Spalding Pond	90	-	ND	-	-	40	48
PA	Spectacle Pond	230	-	-	30	-	190	150
B	Spring Grove Pond	ND	-	90	-	-	ND	40
B	Spring Lake	ND	-	ND	-	-	50	27
TA	Stafford Pond	ND	-	ND	-	-	ND	ND
PA	Tarbox Pond	ND	-	ND	-	-	ND	ND
PA	Tiogue Lake	730	-	180	-	-	260	390
WD	Tucker Pond	50	-	-	ND	-	ND	27
PA	Upper Dam Pond	850	-	60	-	-	140	350
TE	Valley Falls Pond	320	-	170	-	-	620	370
B	Wallum Lake	ND	-	ND	-	-	ND	ND
NA	Warwick Pond	660	-	ND	30	30	200	187
WD	Watchaug Pond	ND	-	ND	-	-	40	23
WO	Waterman Reservoir	160	-	ND	-	-	ND	63

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Watershed	LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Code	Concentration at 1M	-- (ug/l or ppb) --						
NA	Wesquage Pond	150	-	ND	-	-	ND	60
WD	White Brook Pond	720	-	560	-	-	830	703
WD	Wickaboxet Pond	50	-	ND	-	-	40	35
WD	Wincheck Pond	ND	-	ND	-	-	ND	ND
WO	Woonasqua - Stump	100	-	ND	-	-	40	52
WD	Worden Pond	120	-	ND	-	-	40	58
WD	Wyassup Lake	ND	-	ND	-	-	ND	ND
WD	Wyoming Pond	-	-	170	-	-	150	160
WD	Yawgoo Pond	210	ND	ND	ND	ND	50	53
Watershed	LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Code	Concentration at ~+ 4 M	-- (ug/l or ppb) --						
WD	Barber Pond	230	-	ND	-	ND	50	78
NA	Brickyard Pond	ND	-	ND	-	-	-	ND
TH	Carbuncle Pond	300	-	ND	ND	ND	-	86
PE	Carr Pond (NK)	420	-	70	-	-	270	253
PA	Carr Pond (WG)	80	-	ND	-	-	ND	37
CW	Deep Pond	ND	-	ND	-	-	ND	ND
PA	Flat River Res	150	-	120	-	-	80	117
WO	Georgiaville Pond	230	-	40	-	-	90	120
WD	Hundred Acre Pond	480	-	240	-	-	60	260
PA	Little Pond	250	-	ND	-	ND	150	108
S	Long Pond (SK)	-	ND	ND	-	-	30	20
PA	Mishnock Lake	440	-	70	-	-	-	255
B	Pascoag Reservoir	90	-	ND	-	-	40	48
NA	Prince's Pond	150	-	-	-	170	30	117
PA	Sand Pond	210	-	ND	ND	ND	ND	54
CW	Schoolhouse Pond - Lower	70	-	ND	-	-	ND	33
CW	Schoolhouse Pond - Upper	80	-	ND	-	-	30	42
S	Silver Lake	140	-	ND	-	-	30	62
B	Slatersville Res U	160	-	80	80	-	220	135
B	Spring Lake	100	-	ND	-	-	30	48
TA	Stafford Pond	80	-	ND	-	-	ND	37
WD	Tucker Pond	160	-	ND	ND	-	ND	51
B	Wallum Lake	ND	-	ND	-	-	ND	ND
PA	Warwick Pond	660	-	ND	40	ND	200	186
WD	Watchaug Pond	ND	-	ND	-	-	ND	ND
WD	Wickaboxet Pond	110	-	ND	-	-	50	58
WD	Wincheck Pond	ND	-	-	-	-	ND	ND
WD	Wyassup Lake	ND	-	ND	-	-	ND	ND
WD	Yawgoo Pond	220	ND	ND	ND	-	50	63

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