

2004 Parameter Data: Nitrate-Nitrogen

**Nitrate-Nitrogen Data for Rivers and Tributaries**

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 the limiting nutrient.

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	1500	-	830	490	-	350	<b>793</b>
NA	Buckeye Brk @ Novelty Rd	1300	1750	1230	890	870	1080	<b>1187</b>
NA	Buckeye Brk @ Lockwood Brk	-	2860	3050	4140	380	-	<b>2608</b>
NA	Buckeye Brk @ Warner Rd	-	3790	3250	3290	550	1180	<b>2412</b>
NA	Buckeye Brk @ Mill Cove	2510	2050	1650	1600	790	620	<b>1537</b>
WD	Falls R. A - Twin Bridges	ND	110	80	90	ND	ND	<b>54</b>
WD	Falls R. B - Sand Banks	ND	120	100	100	30	30	<b>66</b>
WD	Falls R. C - Austin Farm	ND	170	180	120	30	60	<b>96</b>
WD	Falls R. D - Step Stone	ND	140	130	80	ND	70	<b>75</b>
WD	Grn Falls #1 - Green Falls Rd	-	160	280	160	2280	1420	<b>860</b>
WD	Grn Falls #2 - Putker Rd	-	310	290	100	100	100	<b>180</b>
WD	Grn Falls #3 - Clark Falls Rd	-	1180	2210	1410	90	130	<b>1004</b>
A ?	Himes River (NK)	2230	1980	2500	2280	1930	1100	<b>2003</b>
WD	Locv – Brushy @ Sawmill	120	280	730	330	280	60	<b>300</b>
WD	Locv – Brushy @ Woody	ND	ND	70	40	ND	ND	<b>28</b>
WD	Locv –Moscow @ Sawmill	ND	70	120	80	30	30	<b>58</b>
TH	Moosup A - Fairbanks	ND	180	200	90	40	30	<b>93</b>
TH	Moosup B - Trestle Trail	ND	180	230	110	40	30	<b>101</b>
TH	Moosup Upstream	120	630	200	240	260	70	<b>253</b>
PE	NR 01- Gilbert Stuart	360	230	100	80	ND	-	<b>157</b>
PE	NR 02 - Upper Pond 0.5M	100	ND	ND	ND	-	-	<b>36</b>
PE	NR 02 - Upper Pond 3.0M	80	ND	ND	ND	-	-	<b>31</b>
PE	NR 03 - Lower Pond A 0.5M	170	ND	ND	ND	ND	-	<b>46</b>
PE	NR 03 - Lower Pond A 3.0M	50	ND	ND	ND	ND	-	<b>22</b>
PE	NR 04 - Lower Pond B 0.5M	180	ND	ND	30	ND	-	<b>51</b>
PE	NR 04 - Lower Pond B 3.0M	70	ND	ND	ND	ND	-	<b>26</b>
PE	NR 05 - Lacey Bridge	180	ND	50	ND	ND	-	<b>55</b>
PE	NR 06 - Mettatuxet Beach	180	ND	60	ND	ND	-	<b>57</b>
PE	NR 07 - End of Narrows	170	ND	120	30	ND	-	<b>70</b>
PE	NR 08 - Middlebridge	80	ND	80	110	ND	-	<b>60</b>

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<b>Code</b>	<b>RIVERS (Continued)</b>	<b>-- (ug/l or ppb) --</b>						
PE	NR 09 - Pettaquamscutt	-	-	80	-	ND	-	<b>48</b>
PE	NR 10 - Sprague Bridge	30	ND	200	110	ND	-	<b>74</b>
PE	NR 11 - Mettatumet Brook	2680	680	-	ND	ND	-	<b>848</b>
PE	NR 12 - Mumford Brook	1160	1070	930	680	690	-	<b>906</b>
WD	Pawcatuck R - Avondale 0.5M	210	120	ND	220	30	110	<b>118</b>
WD	Pawcatuck R - Avondale 3.0M	120	60	ND	110	ND	-	<b>64</b>
WD	Pawcatuck R - Bradford	170	490	700	380	90	480	<b>385</b>
WD	Queen @ Sand Bridge (TNC)	-	440	540	380	420	90	<b>374</b>
WD	Queen @ Brownell's	360	380	570	-	380	510	<b>440</b>
WD	Queen @ Locke Brk	120	190	180	150	160	50	<b>142</b>
WD	Queen @ Sherman Brk	ND	160	190	150	120	30	<b>111</b>
WD	Shickasheen @ Rte 2	40	40	dry	40	40	ND	<b>35</b>
WD	Shick. @ Miskiania Road	130	110	180	130	110	80	<b>123</b>
WD	Shick. @ Potter Road	80	ND	ND	30	-	-	<b>35</b>
WD	Shick. @ Barber Pond outlet	180	50	ND	40	ND	50	<b>58</b>
WD	Shick. @ Rte 138	100	110	250	50	140	130	<b>130</b>
WD	Shick. @ Liberty Lane	-	640	1240	280	960	800	<b>784</b>
WD	Shunock @ Babcock	260	-	380	-	-	130	<b>257</b>
WD	Shunock River @ Hewitt	200	-	140	-	-	160	<b>167</b>
WO	Woonas. R @ Donigian	670	980	820	680	1310	880	<b>890</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	-	-	ND	-	-	ND	<b>ND</b>
WD	Barber - Mud Brook	270	270	190	330	240	260	<b>260</b>
A	Belleville @ RR Xing	170	-	470	-	-	600	<b>413</b>
A	Belleville @ Sluiceway	360	-	480	-	-	800	<b>547</b>
PE	Carr Inlet (NK)	120	-	470	-	-	470	<b>353</b>
WO	Geo @ Capron Pond	170	-	130	-	-	70	<b>123</b>
WO	Geo @ Harris	360	-	60	-	-	270	<b>230</b>
GB	Greenwich Bay - 01 (Maskerchugg River)	940	920	1060	930	770	750	<b>895</b>
GB	Greenwich Bay - 02 (Gorton Pond outflow)	1260	1070	600	480	430	550	<b>732</b>
GB	Greenwich Bay - 03 (Hardig Brook @ Rte	1250	880	1000	1070	490	400	<b>848</b>
GB	Greenwich Bay - 04 (Mill Creek)	-	2920	2300	2180	1490	2450	<b>2268</b>
GB	Greenwich Bay - 05 (Hardig Brk @ Health	1570	800	1430	1220	240	530	<b>965</b>
GB	Greenwich Bay - 06 (Tuscatucket Brook)	3590	2760	980	3440	2510	4060	<b>2890</b>
GB	Greenwich Bay - 07 (Southern Creek)	-	1720	4920	5170	650	2550	<b>3002</b>
WD	Pasquisett Tributary	120	-	-	-	-	100	<b>110</b>

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<b>Code</b>	<b>TRIBUTARIES - CONTINUED</b>	<b>-- (ug/l or ppb) --</b>						
H	Saw Mill Tributary	460	570	660	-	390	260	<b>468</b>
A	Secret - Oak Hill East	1790	-	1970	-	-	1780	<b>1847</b>
A	Secret - Oak Hill West	1770	-	1990	-	-	1820	<b>1860</b>
A	Secret - Shore Dr.	140	-	ND	-	-	60	<b>72</b>
B	S&S @ Keech	50	-	50	-	-	-	<b>50</b>
B	S&S @ Balcom	360	-	60	-	-	ND	<b>145</b>
B	S&S @ O'Donnel	80	-	ND	-	-	-	<b>48</b>
WO	Slack's A	70	50	ND	50	ND	ND	<b>36</b>
WO	Slack's B	1260	930	2200	1430	130	90	<b>1007</b>
WO	Slack's C	300	540	320	420	380	80	<b>340</b>
WO	Slack's D	240	170	ND	610	440	500	<b>329</b>
TA	Staf Inlet - Upstream	70	-	dry	-	-	-	<b>70</b>
TA	Staf Inlet - Downstream	1290	-	50	-	-	1120	<b>820</b>
TA	Stafford - NE Cove	ND	-	ND	-	-	30	<b>20</b>
WD	Watchaug - Perry Healy	290	-	-	-	-	-	<b>290</b>
WO	Waterman @ Rte 44	60	-	130	-	-	40	<b>77</b>
WO	Waterman @ Saw Mill	140	-	240	-	-	140	<b>173</b>
WO	Waterman @ Golf Course	310	-	ND	-	-	480	<b>268</b>
WO	Waterman @ Aldrich	120	-	190	-	-	50	<b>120</b>
<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 R @ Rte 216	460	1170	1300	-	-	-	<b>977</b>
WD	Ashaway R @ Wellstown Rd.	480	1180	1550	-	-	-	<b>1070</b>
WD	Asseconk Bk @ Rte 2	-	ND	290	160	-	150	<b>154</b>
WD	Chipuxet @ Rte 138	560	670	650	150	140	280	<b>408</b>
WD	Fisherville Bk	160	180	260	170	130	60	<b>160</b>
WD	Glen Rock Bk	230	280	250	230	180	250	<b>237</b>
WD	Lewis Pond outlet	-	1180	1090	1050	950	910	<b>1036</b>
WD	P'tuck @ Burdickville Rd	180	450	670	460	590	390	<b>457</b>
WD	P'tuck @ Chase Hill Rd.	180	550	650	40	-	480	<b>380</b>
WD	P'tuck below Kenyon Ind.	110	310	790	540	780	350	<b>480</b>
WD	P'tuck @ Rte 91	-	980	1090	610	1000	640	<b>864</b>
WD	Queen @ Mail Rd	260	390	450	320	330	110	<b>310</b>
WD	Queen @ Rte 102	50	70	200	120	100	50	<b>98</b>
WD	Shunock @ Main St	-	470	330	420	350	460	<b>406</b>
WD	Shunock below Parke Pond	-	390	700	420	480	480	<b>494</b>
WD	Taney Bk	180	350	790	550	850	35	<b>459</b>
WD	Tomaquag Bk @ Chase Hill	320	780	1010	790	900	200	<b>667</b>
WD	Tomaquag Bk @ Woodville Rd.	ND	100	220	150	120	ND	<b>103</b>
WD	Usquepaugh @ Rte 2	-	520	680	470	560	540	<b>554</b>

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