2005 Parameter Data: Total Nitrogen in Lakes, Ponds and Reservoirs

Nitrogen is an important nutrient for plant and algae growth, but excess concentrations can cause cultural eutrophication, particularly in estuarine or marine systems. In saltwater, nitrogen is typically the nutrient that limits plant and algae growth, known as the limiting nutrient. However, in waters with high concentrations of phosphorus, the usual limiting nutrient in freshwater, nitrogen plays a more important role in eutrophication. When eutrophication occurs, algal and plant growth is over stimulated, water clarity is decreased, deep waters become depleted of dissolved oxygen, and fish and shellfish death may result. Precipitation, agricultural, lawn and garden fertilizer, animal wastes, and human waste from sewage treatment plants or septic systems are sources of nitrogen. Measurements of total nitrogen include all forms of dissolved and particulate nitrogen, i.e., nitrate-nitrogen, ammonium-nitrogen, and also organic forms of nitrogen.

Watershed code	LOCATION	Sample Depth (m)	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
			- - (ug/l or ppb) - -						
CE	ALMY POND	0.5	2380	-	-	-	2770	2850	**2667**
WD	ALTON POND	1	470	-	550	-	-	-	**510**
TH	ARNOLD POND	1	260	-	320	-	-	280	**287**
S	ASA POND	1	1210	-	800	-	-	-	**1005**
WD	BARBER POND	1	520	380	490	360	-	500	**450**
WD	BARBER POND	4.5	660	510	1410	1490	-	680	**950**
A	BELLEVILLE POND - LOWER	1	910	-	540	-	-	720	**723**
A	BELLEVILLE POND - UPPER	0.5	850	-	560	-	-	520	**643**
PA	BLACKAMORE POND	1	970	-	580	-	-	990	**847**
TH	BLUE LAKE	1	-	-	440	-	-	680	**560**
WD	BOONE LAKE	1	490	-	350	-	-	430	**423**
WD	BOONE LAKE	5	520	-	430	-	-	440	**463**
TH	BOWDISH RESERVOIR	1	280	-	280	-	290	-	**283**
WD	BREAKHEART POND	1	320	-	380	-	-	-	**350**
TH	CARBUNCLE POND	1	350	-	350	-	350	410	**365**
TH	CARBUNCLE POND	6.5	640	-	1230	-	1470	480	**955**
PE	CARR POND (NK)	1	880	-	530	-	460	580	**613**
PE	CARR POND (NK)	4.5	1260	-	1220	-	1230	680	**1098**
PA	CARR POND (WG)	1	320	-	110	-	-	120	**183**
PA	CARR POND (WG)	9	600	-	180	-	-	190	**323**
CW	DEEP POND	1	-	280	-	-	310	240	**277**
CW	DEEP POND	5	-	240	-	-	1160	870	**757**
PA	ELM POND	1	-	890	1600	180	-	-	**890**
PA	ELM POND	2	-	910	970	2210	-	-	**1363**
PA	FENNER POND	1	1050	-	1130	-	-	590	**923**
PA	FLAT RIVER RESERVOIR	1	450	-	480	-	-	400	**443**
PA	FLAT RIVER RESERVOIR	7	450	-	590	-	-	640	**560**

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Watershed code	LOCATION	Sample Depth (m)	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
			- - (ug/l or ppb) - -						
WO	GEORGIAVILLE POND	1	580	400	-	770	-	400	**538**
WO	GEORGIAVILLE POND	6	460	620	-	870	-	640	**648**
WO	HAWKINS POND	1	810	-	370	-	-	780	**653**
WD	HUNDRED ACRE POND	1	920	-	620	-	-	520	**687**
WD	HUNDRED ACRE POND	6	950	-	710	-	-	910	**857**
S	INDIAN LAKE	1	590	-	-	-	-	380	**485**
B	KEECH POND	1	410	-	330	-	-	350	**363**
TH	LAKE WASHINGTON	1	1340	-	930	-	1570	-	**1280**
CE	LILY POND	1	-	-	1010	-	-	880	**945**
PA	LITTLE POND	1	690	-	260	-	380	230	**390**
PA	LITTLE POND	5	810	-	310	-	430	330	**470**
WD	LOCUSTVILLE POND	1	390	-	420	-	-	340	**383**
S	LONG POND (SK)	1	350	-	300	-	-	320	**323**
S	LONG POND (SK)	7	520	-	430	-	-	610	**520**
WD	MEADOWBROOK POND	1	480	-	430	-	-	530	**480**
NA	MELVILLE POND - UPPER	1	2040	-	710	-	-	740	**1163**
PA	MISHNOCK LAKE	1	770	-	590	-	-	620	**660**
PA	MISHNOCK LAKE	4	-	-	900	-	-	650	**775**
SK	NANAQUAKET POND	1	400	-	420	-	-	630	**483**
B	NICHOLS POND	1	330	-	620	-	-	-	**475**
PA	OAK SWAMP RESERVOIR	1	640	-	320	-	-	440	**467**
B	PASCOAG RESERVOIR	1	380	-	260	-	280	280	**300**
B	PASCOAG RESERVOIR	4	420	-	250	-	490	760	**480**
WD	PASQUISETT POND	1	540	-	480	-	-	530	**517**
PA	PLEASURE POND	0.5	-	860	1550	1770	-	-	**1393**
PA	PONAGANSETT RESERVOIR	1	310	-	320	-	-	270	**300**
PA	PONAGANSETT RESERVOIR	9	370	-	820	-	-	190	**460**
NA	PRINCE'S POND	1	1210	-	1090	-	760	1060	**1030**
NA	PRINCE'S POND	3	1440	-	1350	-	2390	1965	**1786**
WD	QUEEN RIVER AT USQUEPAUGH (GLEN ROCK RES.)	1	530	-	530	-	-	390	**483**
PA	RANDALL POND	1	450	-	300	-	-	270	**340**
PA	SAND POND	1	610	-	380	-	470	360	**455**
PA	SAND POND	7	2240	-	590	-	2720	760	**1578**
S	SAUGATUCKET POND	1	780	-	1030	-	-	710	**840**

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Watershed code	LOCATION	Sample Depth (m)	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
			- - (ug/l or ppb) - -						
CW	SCHOOLHOUSE POND - LOWER	1	390	-	340	-	-	270	**333**
CW	SCHOOLHOUSE POND - LOWER	6+	680	-	230	-	-	600	**503**
CW	SCHOOLHOUSE POND - UPPER	1	320	-	350	-	-	300	**323**
CW	SCHOOLHOUSE POND - UPPER	6+	790	-	470	-	-	460	**573**
B	SCOTT POND	1	1070	-	-	-	-	-	**1070**
B	SCOTT POND	9	1870	-	-	-	-	-	**1870**
A	SECRET LAKE	1	1390	-	890	-	-	1270	**1183**
S	SILVER LAKE	1	2020	-	510	-	-	660	**1063**
S	SILVER LAKE	7	770	-	520	-	-	700	**663**
PE	SILVER SPRING LAKE	1	1940	-	1190	-	-	1500	**1543**
TE	SLATER POND	1	1490	-	680	-	970	530	**918**
B	SLATERSVILLE RESERVOIR - UPPER	1	520	-	540	-	-	670	**577**
B	SLATERSVILLE RESERVOIR - UPPER	5.5	740	-	1070	-	-	1020	**943**
B	SMITH & SAYLES RESERVOIR	1	-	-	290	-	-	-	**290**
WD	SPALDING POND	1	-	-	690	-	-	1060	**875**
PA	SPECTACLE POND	1	970	-	1590	-	-	1250	**1270**
B	SPRING GROVE POND	1	330	-	280	-	-	330	**313**
B	SPRING LAKE	1	370	-	330	-	-	340	**347**
B	SPRING LAKE	5	580	-	440	-	-	650	**557**
TA	STAFFORD POND	1	-	450	480	-	660	530	**530**
TA	STAFFORD POND	7	-	500	810	-	760	690	**690**
PA	TARBOX POND	1	270	-	-	-	-	-	**270**
PA	TIOGUE LAKE	1	990	-	500	-	-	440	**643**
WD	TUCKER POND	1	450	-	410	-	480	410	**438**
WD	TUCKER POND	7.5	1050	-	990	-	1400	630	**1018**
PA	UPPER DAM POND	1	950	-	700	-	-	650	**767**
B	VALLEY FALLS POND	0.5	1430	-	1370	-	-	1040	**1280**
B	WALLUM LAKE	1	250	-	200	-	-	-	**225**
B	WALLUM LAKE	5	-	-	190	-	-	-	**190**
NA	WARWICK POND	1	1120	-	560	-	620	730	**758**
NA	WARWICK POND	5.5	1200	-	2060	-	3870	760	**1973**
WD	WATCHAUG POND	1	650	-	400	-	430	370	**463**
WD	WATCHAUG POND	10	1110	-	470	-	420	480	**620**
WO	WATERMAN RESERVOIR	1	320	-	320	-	-	370	**337**
NA	WESQUAGE POND	1	620	760	770	-	-	850	**750**

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Watershed code	LOCATION	Sample Depth (m)	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
			- - (ug/l or ppb) - -						
WD	WHITE BROOK POND	1	-	1240	1110	-	-	920	**1090**
S	WHITE POND	1	-	-	150	-	130	-	**140**
S	WHITE POND	8+	-	-	160	-	150	-	**155**
WD	WINCHECK POND	1	440	-	200	-	-	-	**320**
WD	WINCHECK POND	5	600	-	270	-	-	-	**435**
WO	WOONASQUA. RES. - STUMP P.	1	390	-	290	-	-	340	**340**
WD	WORDEN POND	1	550	-	510	-	-	-	**530**
WD	WYASSUP LAKE	1	-	-	260	-	-	320	**290**
WD	WYASSUP LAKE	7	-	-	-	-	-	460	**460**
WD	WYOMING POND	1	-	500	380	-	-	540	**473**
WD	YAWGOO POND	1	380	820	720	980	980	910	**798**
WD	YAWGOO POND	10	-	450	740	1760	1000	810	**952**