

2007 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	LOCATION	Sample	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
code		Depth (m)	-- (ug/l or ppb) --						
WD	ALTON POND	1	430	-	530	-	-	570	510
S	ASA POND	1	980	-	520	-	-	340	613
WD	BARBER POND	1	-	420	410	-	-	-	415
WD	BARBER POND	4.5	-	390	770	-	-	-	580
A	BELLEVILLE POND - LOWER	1	720	-	400	-	-	290	470
A	BELLEVILLE POND - UPPER	0.5	840	-	1060	-	-	-	950
TH	BILLINGS LAKE (CT)	1	270	-	260	-	-	230	253
TH	BILLINGS LAKE (CT)	7	-	-	260	-	-	200	230
PA	BLACKAMORE POND	1	1280	-	760	-	-	930	990
TH	BLUE LAKE	1	700	-	940	-	-	320	653
WD	BOONE LAKE	1	500	-	440	-	-	270	403
WD	BOONE LAKE	5	550	-	890	-	-	390	610
TH	BOWDISH RESERVOIR	1	230	-	370	-	310	-	303
WD	BREAKHEART POND	1	650	-	-	490	-	280	473
TH	CARBUNCLE POND	1	270	-	-	340	-	260	290
TH	CARBUNCLE POND	6.5	470	-	-	920	-	1260	883
PE	CARR POND (NK)	1	890	-	540	-	-	-	715
PE	CARR POND (NK)	4.5	1150	-	800	-	-	-	975
PA	CARR POND (WG)	1	150	-	140	-	-	100	130
PA	CARR POND (WG)	9	660	-	280	-	-	150	363
R	CENTRAL POND (Turner Reservoir-north)	1	2350	-	-	-	-	4580	3465
WD	CHAPMAN POND	1	980	-	650	-	-	-	815
CW	DEEP POND	1	230	-	260	-	-	790	427
CW	DEEP POND	5	300	-	620	-	-	630	517
WD	EISENHOWER LAKE	1	170	-	360	-	-	240	257
PA	FLAT RIVER RESERVOIR	1	380	-	380	370	-	-	377
PA	FLAT RIVER RESERVOIR	7	340	-	540	710	-	-	530
WO	GEORGIAVILLE POND	1	390	-	360	-	-	340	363
WO	GEORGIAVILLE POND	6	630	-	710	-	-	450	597

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code		Depth (m)	-- (ug/l or ppb) --							
NA	GORTON POND	1	1020	-	ND	-	-	290	442	
NA	GORTON POND	10	1290	-	1770	-	-	1800	1620	
B	HANDY POND	1	290	-	450	-	-	650	463	
WO	HAWKINS POND	1	530	-	600	-	-	270	467	
WD	HUNDRED ACRE POND	1	750	-	460	-	-	330	513	
WD	HUNDRED ACRE POND	6	-	-	820	-	-	640	730	
S	INDIAN LAKE	1	340	-	650	-	-	480	490	
B	KEECH POND	1	370	-	420	-	-	310	367	
WD	LARKIN POND	1	-	440	500	-	-	-	470	
WD	LARKIN POND	8	-	570	1320	-	-	-	945	
CE	LILY POND	1	560	-	950	-	-	940	817	
PA	LITTLE POND	1	460	-	260	320	-	320	340	
PA	LITTLE POND	5	470	-	310	390	-	340	378	
WD	LOCUSTVILLE POND	1	340	-	470	-	-	320	377	
S	LONG POND (SK)	1	440	-	330	-	-	350	373	
S	LONG POND (SK)	7	-	-	400	-	-	550	475	
WD	MEADOWBROOK POND	1	470	-	380	-	-	490	447	
NA	MELVILLE P - UPPER	1	2100	-	900	-	-	1710	1570	
PA	MISHNOCK LAKE	1	1290	-	770	560	-	460	770	
PA	MISHNOCK LAKE	4	1320	-	840	770	-	500	858	
PA	MISHNOCK LAKE - LITTLE	1	760	-	670	590	-	580	650	
PA	PONAGANSETT RESERVOIR	1	240	-	240	-	-	170	217	
PA	PONAGANSETT RESERVOIR	9	560	-	500	-	-	950	670	
NA	PRINCE'S POND	1	1340	-	1500	-	-	940	1260	
NA	PRINCE'S POND	3	1460	-	2340	-	-	1790	1863	
WD	(Glen Rock Reservoir)	1	460	-	450	-	-	350	420	
PA	RANDALL POND	1	360	-	320	-	-	280	320	
PA	SAND POND	1	370	-	380	-	-	260	337	
PA	SAND POND	7	430	-	1280	-	-	1390	1033	
S	SAUGATUCKET POND	1	790	-	880	-	-	970	880	
CW	SCHOOLHOUSE P - LOWER	1	220	-	350	-	-	310	293	
CW	SCHOOLHOUSE P - LOWER	6+	-	-	-	-	-	510		
CW	SCHOOLHOUSE P - UPPER	1	180	-	310	-	-	390	293	
CW	SCHOOLHOUSE P - UPPER	6+	-	-	-	-	-	670	670	
B	SCOTT POND	1	950	-	600	-	-	810	787	
B	SCOTT POND	9	-	-	1750	-	-	1920	1835	
A	SECRET LAKE	1	1400	-	830	-	-	1100	1110	
S	SILVER LAKE	1	470	-	360	430	670	380	462	
S	SILVER LAKE	7	360	-	330	420	460	490	412	

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code		Depth (m)	-- (ug/l or ppb) --						
PE	SILVER SPRING LAKE	1	1890	-	1300	-	-	2460	1883
CE	SIMMONS MILL POND	1	390	-	580	-	-	440	470
WO	SLACK'S RESERVOIR	1	680	-	490	-	-	470	547
WO	SLACK'S RESERVOIR	4	730	-	550	820	-	440	635
TE	SLATER POND	1	790	-	2880	-	2950	10280	4225
B	SLATERSVILLE RESERVOIR	1	730	-	450	-	-	400	527
B	SLATERSVILLE RESERVOIR	5.5	560	-	920	-	-	600	693
B	SMITH & SAYLES RESERVOIR	1	320	-	390	400	-	-	370
WD	SPALDING POND	1	480	-	630	-	-	450	520
PA	SPECTACLE POND	1	850	-	980	1660	-	1430	1230
PA	SPECTACLE POND	4	1300	-	1450	2880	-	1010	1660
B	SPRING GROVE POND	1	330	-	350	-	-	260	313
B	SPRING LAKE	1	230	-	300	-	-	260	263
B	SPRING LAKE	5	250	-	410	310	-	320	323
TA	STAFFORD POND	1	340	-	380	-	-	410	377
TA	STAFFORD POND	7	520	-	600	-	-	650	590
PA	TIOGUE LAKE	1	930	-	780	600	-	350	665
WD	TUCKER POND	1	510	-	480	480	-	470	485
WD	TUCKER POND	7.5	920	-	1010	-	-	1840	1257
PA	UPPER DAM POND	1	1080	-	670	-	-	2050	1267
B	VALLEY FALLS POND	0.5	1670	-	680	-	-	1700	1350
B	WALLUM LAKE	1	260	-	220	-	-	200	227
B	WALLUM LAKE	5	370	-	220	-	-	160	250
NA	WARWICK POND	1	1130	-	580	440	-	780	733
NA	WARWICK POND	5.5	1190	-	1910	2580	-	850	1633
WD	WATCHAUG POND	1	400	-	400	-	-	-	400
WD	WATCHAUG POND	10	330	-	480	-	-	-	405
WO	WATERMAN RESERVOIR	1	450	-	510	-	-	300	420
NA	WESQUAGE POND	1	630	-	790	-	-	860	760
WD	WHITE POND	1	700	-	170	-	-	250	373
WD	WHITE POND	8	400	-	200	-	-	460	353
WD	WINCHECK POND	1	240	-	300	260	-	160	240
WD	WINCHECK POND	5	440	-	270	350	-	290	338
WO	WOONASQUA - STUMP	1	440	-	360	-	-	270	357
WD	WORDEN POND	1	480	-	-	810	-	510	600
WD	WYASSUP LAKE	1	280	-	370	-	-	190	280
WD	YAWGOO POND	1	410	400	370	470	390	690	455
WD	YAWGOO POND	10	400	440	760	600	840	790	638

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