

2007 Parameter Data: Nitrate + nitrite nitrogen in Lakes, Ponds, and Reservoirs

Nitrate+nitrite nitrogen is typically the most common form of inorganic nitrogen in lakes and streams. Nitrate+ nitrite 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+nitrite 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.

Watershed code	LOCATION	Sample Depth (m)	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
			-- (ug/l or ppb) --						
WD	ALTON POND	1	180	-	270	-	-	440	297
S	ASA POND	1	460	-	ND	-	-	ND	160
WD	BARBER POND	1	-	70	30	-	-	-	50
WD	BARBER POND	4.5	-	90	50	-	-	-	70
A	BELLEVILLE POND - LOWER	1	210	-	ND	-	-	ND	77
A	BELLEVILLE POND - UPPER	0.5	190	-	ND	-	-	-	100
TH	BILLINGS LAKE (CT)	1	ND	-	ND	-	-	ND	ND
TH	BILLINGS LAKE (CT)	7	-	-	30	-	-	ND	20
PA	BLACKAMORE POND	1	780	-	ND	-	-	80	290
TH	BLUE LAKE	1	ND	-	20	-	-	ND	ND
WD	BOONE LAKE	1	250	-	140	-	-	30	140
WD	BOONE LAKE	5	280	-	90	-	-	30	133
TH	BOWDISH RESERVOIR	1	ND	-	30	-	30	-	23
WD	BREAKHEART POND	1	ND	-	-	40	-	20	23
TH	CARBUNCLE POND	1	50	-	-	ND	-	ND	23
TH	CARBUNCLE POND	6.5	90	-	-	ND	-	ND	37
PE	CARR POND (NK)	1	590	-	180	-	-	-	385
PE	CARR POND (NK)	4.5	550	-	90	-	-	-	320
PA	CARR POND (WG)	1	60	-	ND	-	-	20	30
PA	CARR POND (WG)	9	60	-	30	-	-	30	40
R	CENTRAL POND (Turner Reservoir-north)	1	1700	-	-	-	-	3460	2580
WD	CHAPMAN POND	1	350	-	30	-	-	-	190
CW	DEEP POND	1	ND	-	ND	-	-	20	ND
CW	DEEP POND	5	ND	-	ND	-	-	20	ND
WD	EISENHOWER LAKE	1	ND	-	ND	-	-	ND	ND
PA	FLAT RIVER RESERVOIR	1	130	-	70	380	-	-	193
PA	FLAT RIVER RESERVOIR	7	130	-	80	60	-	-	90
WO	GEORGIAVILLE POND	1	180	-	70	-	-	40	97
WO	GEORGIAVILLE POND	6	240	-	40	-	-	40	107
NA	GORTON POND	1	440	-	80	-	-	20	380
NA	GORTON POND	10	1040	-	60	-	-	20	173

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			-- (ug/l or ppb) --						
B	HANDY POND	1	ND	-	ND	-	-	ND	ND
WO	HAWKINS POND	1	380	-	90	-	-	100	190
WD	HUNDRED ACRE POND	1	380	-	100	-	-	ND	163
WD	HUNDRED ACRE POND	6	-	-	40	-	-	ND	25
S	INDIAN LAKE	1	ND	-	ND	-	-	40	20
B	KEECH POND	1	60	-	ND	-	-	40	37
WD	LARKIN POND	1	-	20	ND	-	-	-	ND
WD	LARKIN POND	8	-	70	30	-	-	-	50
CE	LILY POND	1	ND	-	30	-	-	20	20
PA	LITTLE POND	1	180	-	ND	20	-	20	58
PA	LITTLE POND	5	120	-	ND	ND	-	30	43
WD	LOCUSTVILLE POND	1	110	-	ND	-	-	60	60
S	LONG POND (SK)	1	ND	-	ND	-	-	30	ND
S	LONG POND (SK)	7	-	-	ND	-	-	30	20
WD	MEADOWBROOK POND	1	210	-	70	-	-	60	113
NA	MELVILLE P - UPPER	1	1700	-	30	-	-	50	593
PA	MISHNOCK LAKE	1	580	-	290	240	-	220	333
PA	MISHNOCK LAKE	4	490	-	270	270	-	220	313
PA	MISHNOCK LAKE - LITTLE	1	410	-	200	160	-	190	240
PA	PONAGANSETT RESERVOIR	1	40	-	20	-	-	20	27
PA	PONAGANSETT RESERVOIR	9	50	-	30	-	-	20	33
NA	PRINCE'S POND	1	470	-	30	-	-	20	173
NA	PRINCE'S POND	3	390	-	30	-	-	ND	143
WD	(Glen Rock Reservoir)	1	210	-	220	-	-	210	213
PA	RANDALL POND		70	-	30	-	-	40	47
WD	SAND POND	1	80	-	20	-	-	20	40
PA	SAND POND	1	50	-	20	-	-	20	30
PA	SAUGATUCKET POND	1	350	-	330	-	-	250	310
PA	SCHOOLHOUSE P - LOWER	7	ND	-	ND	-	-	20	ND
S	SCHOOLHOUSE P - LOWER	1	-	-	-	-	-	30	30
CW	SCHOOLHOUSE P - UPPER	1	ND	-	ND	-	-	20	13
CW	SCHOOLHOUSE P - UPPER	6+	-	-	-	-	-	20	20
CW	SCOTT POND	1	240	-	20	-	-	20	93
CW	SCOTT POND	6+	-	-	50	-	-	20	35
B	SECRET LAKE	1	1110	-	420	-	-	890	807
B	SILVER LAKE	9	40	-	ND	ND	80	ND	30
A	SILVER LAKE	1	40	-	ND	ND	ND	20	ND
PE	SILVER SPRING LAKE	1	1720	-	980	-	-	1050	1250

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			MAY	JUNE	JULY	AUG.	SEPT.	OCT.		
CE	SIMMONS MILL POND	1	ND	-	ND	-	-	ND	ND	
WO	SLACK'S RESERVOIR	1	320	-	ND	-	-	20	117	
WO	SLACK'S RESERVOIR	4	290	-	20	30	-	ND	88	
TE	SLATER POND	1	ND	-	ND	-	ND	20	ND	
B	SLATERSVILLE RESERVOIR -	1	130	-	100	-	-	140	123	
B	SLATERSVILLE RESERVOIR -	5.5	120	-	50	-	-	160	110	
B	SMITH & SAYLES RESERVOIF	1	ND	-	20	ND	-	-	ND	
WD	SPALDING POND	1	60	-	20	-	-	50	43	
PA	SPECTACLE POND	1	170	-	50	ND	-	170	100	
PA	SPECTACLE POND	4	230	-	20	ND	-	170	108	
B	SPRING GROVE POND	1	40	-	ND	-	-	20	23	
B	SPRING LAKE	1	ND	-	ND	-	-	40	20	
B	SPRING LAKE	5	ND	-	100	ND	-	40	40	
TA	STAFFORD POND	1	ND	-	ND	-	-	40	20	
TA	STAFFORD POND	7	ND	-	ND	-	-	50	23	
PA	TIOGUE LAKE	1	580	-	400	30	-	80	273	
WD	TUCKER POND	1	100	-	20	20	-	20	40	
WD	TUCKER POND	7.5	130	-	30	-	-	20	60	
PA	UPPER DAM POND	1	660	-	70	-	-	30	253	
B	VALLEY FALLS POND	0.5	560	-	40	-	-	1050	550	
B	WALLUM LAKE	1	40	-	ND	-	-	ND	20	
B	WALLUM LAKE	5	40	-	ND	-	-	ND	20	
NA	WARWICK POND	1	550	-	20	20	-	90	170	
NA	WARWICK POND	5.5	390	-	20	20	-	80	128	
WD	WATCHAUG POND	1	ND	-	20	-	-	-	ND	
WD	WATCHAUG POND	10	50	-	110	-	-	-	80	
WO	WATERMAN RESERVOIR	1	140	-	ND	-	-	ND	53	
NA	WESQUAGE POND	1	80	-	ND	-	-	ND	33	
WD	WHITE POND	1	50	-	ND	-	-	20	27	
WD	WHITE POND	8	70	-	50	-	-	20	47	
WD	WINCHECK POND	1	ND	-	ND	20	-	20	ND	
WD	WINCHECK POND	5	50	-	ND	ND	-	ND	20	
WO	WOONASQUA - STUMP	1	90	-	20	-	-	40	50	
WD	WORDEN POND	1	140	-	-	ND	-	20	57	
WD	WYASSUP LAKE	1	ND	-	ND	-	-	ND	ND	
WD	YAWGOO POND	1	ND	50	ND	30	20	ND	22	
WD	YAWGOO POND	10	50	110	30	ND	20	ND	38	

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