

2006 Parameter Data: Nitrate-nitrogen in 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.

Watershed code	LOCATION	Sample Depth (m)	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
			-- (ug/l or ppb) --						
WD	ALTON POND	1	120	-	250	-	-	-	185
S	ASA POND	1	240	-	140	-	-	-	190
WD	BARBER POND	1	120	-	50	-	-	70	80
WD	BARBER POND	4.5	110	-	ND	-	-	-	65
A	BELLEVILLE POND - LOWER	1	360	-	ND	-	-	-	190
A	BELLEVILLE POND - UPPER	0.5	-	100	40	-	-	-	70
PA	BLACKAMORE POND	1	1070	-	40	-	-	410	507
TH	BLUE LAKE	1	40	-	ND	-	-	150	70
WD	BOONE LAKE	1	200	-	150	-	-	140	163
WD	BOONE LAKE	5	230	-	110	-	-	140	160
TH	BOWDISH RESERVOIR	1	ND	-	ND	-	ND	-	ND
WD	BROWNING MILL POND	1	70	-	30	-	-	50	50
TH	CARBUNCLE POND	1	170	-	ND	ND	-	40	63
TH	CARBUNCLE POND	6.5	170	-	30	ND	-	ND	60
PE	CARR POND (NK)	1	460	-	60	-	-	350	290
PE	CARR POND (NK)	4.5	50	-	60	-	-	370	160
PA	CARR POND (WG)	1	50	-	ND	-	-	ND	30
PA	CARR POND (WG)	9	360	-	ND	-	-	ND	133
TH	CLARKVILLE POND	1	ND	-	ND	-	-	ND	ND
CW	DEEP POND	1	ND	-	ND	-	-	ND	ND
CW	DEEP POND	5	ND	-	ND	-	-	ND	ND
PA	FENNER POND	1	660	-	ND	-	-	320	333
PA	FLAT RIVER RESERVOIR	1	40	-	90	-	-	110	80
PA	FLAT RIVER RESERVOIR	7	100	-	110	-	-	100	103
WO	GEORGIAVILLE POND	1	120	-	70	-	-	80	90
WO	GEORGIAVILLE POND	6	160	-	60	-	-	90	103
NA	GORTON POND	1	-	330	ND	-	-	60	137
NA	GORTON POND	10	-	220	40	ND	-	40	80
WO	HAWKINS POND	1	250	-	160	ND	-	160	148
WD	HUNDRED ACRE POND	1	520	-	310	-	-	200	343
WD	HUNDRED ACRE POND	6	490	-	240	-	-	220	317

ND = No Detect; Limit of Detection = 40 ppb; Mean calculated using half the limit of detection (20 ppb) for ND

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			-- (ug/l or ppb) --						
S	INDIAN LAKE	1	ND	-	ND	-	-	ND	ND
B	KEECH POND	1	-	ND	ND	-	-	100	47
CE	LILY POND	1	ND	-	ND	-	-	-	ND
PA	LITTLE POND	1	110	-	ND	ND	-	130	70
PA	LITTLE POND	5	110	-	ND	ND	-	130	70
WD	LOCUSTVILLE POND	1	70	-	ND	-	-	50	47
S	LONG POND (SK)	1	ND	-	ND	-	-	50	30
S	LONG POND (SK)	7	-	-	-	-	-	-	-
WD	MEADOWBROOK POND	1	60	-	210	-	-	110	127
NA	MELVILLE P - UPPER	1	590	-	ND	-	-	50	220
PA	MESHANICUT POND	0.5	550	-	30	-	-	140	240
PA	MISHNOCK LAKE	1	520	-	290	240	-	360	353
PA	MISHNOCK LAKE	4	470	-	220	210	-	360	315
SK	NANAQUAKET POND	1	ND	-	40	-	-	80	47
PA	OAK SWAMP RES.	1	320	-	50	-	-	-	185
B	PASCOAG RESERVOIR	1	50	-	60	-	-	40	50
B	PASCOAG RESERVOIR	4	40	-	ND	-	-	40	33
WD	PASQUISETT POND	1	140	-	120	-	-	210	157
PA	PONAGANSETT RESERVOIR	1	50	-	ND	ND	-	ND	28
PA	PONAGANSETT RESERVOIR	9	50	-	ND	ND	-	ND	28
NA	PRINCE'S POND	1	230	-	ND	-	-	40	97
NA	PRINCE'S POND	3	120	-	ND	-	-	ND	53
PA	PRINTWORKS POND		790	-	220	-	-	650	553
WD	(Glen Rock Res.)	1	80	-	260	-	-	200	180
PA	RANDALL POND	1	160	-	ND	-	-	180	120
PA	SAND POND	1	130	-	ND	ND	-	40	53
PA	SAND POND	7	70	-	ND	ND	-	40	38
S	SAUGATUCKET POND	1	150	-	390	-	-	220	253
CW	SCHOOLHOUSE P - LOWER	1	ND	-	ND	-	-	ND	ND
CW	SCHOOLHOUSE P - LOWER	6+	ND	-	ND	-	-	-	ND
CW	SCHOOLHOUSE P - UPPER	1	ND	-	ND	-	-	ND	ND
CW	SCHOOLHOUSE P - UPPER	6+	ND	-	ND	-	-	-	ND
B	SCOTT POND	1	230	-	40	-	-	220	163
B	SCOTT POND	9	230	-	30	-	-	-	130
A	SECRET LAKE	1	870	-	700	-	-	960	843
S	SILVER LAKE	1	150	-	ND	-	-	50	73
S	SILVER LAKE	7	160	-	ND	-	-	50	77

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			MAY	JUNE	JULY	AUG.	SEPT.	OCT.		
			-- (ug/l or ppb) --							
PE	SILVER SPRING LAKE	1	1060	-	920	-	-	1320	1100	
WO	SLACK'S RESERVOIR	1	-	-	ND	-	-	70	45	
WO	SLACK'S RESERVOIR	4	-	-	ND	-	-	-	-	
TE	SLATER POND	1	ND	-	ND	-	-	ND	ND	
B	SLATERSVILLE RES - UPPER	1	-	140	150	-	-	130	140	
B	SLATERSVILLE RES - UPPER	5.5	-	100	50	-	-	130	93	
B	SMITH & SAYLES RES.	1	-	-	-	-	-	-	-	
WD	SPALDING POND	1	70	-	ND	-	-	80	57	
PA	SPECTACLE POND	1	300	-	ND	-	-	260	193	
B	SPRING GROVE POND	1	90	-	ND	-	-	ND	43	
B	SPRING LAKE	1	40	-	ND	-	-	ND	27	
B	SPRING LAKE	5	ND	-	ND	-	-	ND	ND	
TA	STAFFORD POND	1	-	ND	ND	ND	-	ND	ND	
TA	STAFFORD POND	7	-	50	2670	ND	-	ND	690	
B	TARKILN POND	1	70	-	-	-	-	-	-	
PA	TIOGUE LAKE	1	600	-	240	-	-	300	380	
WD	TUCKER POND	1	70	-	-	ND	-	110	67	
WD	TUCKER POND	7.5	70	-	-	ND	-	110	67	
PA	UPPER DAM POND	1	580	-	140	-	-	120	280	
B	VALLEY FALLS POND	0.5	200	-	710	-	-	460	457	
NA	WARWICK POND	1	610	-	ND	-	-	270	300	
NA	WARWICK POND	5.5	600	-	ND	-	-	260	293	
WD	WATCHAUG POND	1	60	-	ND	ND	-	50	38	
WD	WATCHAUG POND	10	60	-	ND	ND	-	60	40	
WO	WATERMAN RESERVOIR	1	80	-	ND	-	-	60	53	
NA	WESQUAGE POND	1	140	-	ND	-	-	ND	60	
WD	WHITE BROOK POND	1	1240	-	1690	1930	-	2110	1743	
WD	WINCHECK POND	1	ND	-	-	-	-	-	-	
WD	WINCHECK POND	5	ND	-	-	-	-	-	-	
WO	WOONASQUA - STUMP	1	-	60	ND	-	-	40	40	
WD	WORDEN POND	1	190	-	130	-	-	100	140	
WD	WYASSUP LAKE	1	ND	-	ND	-	-	ND	ND	
WD	WYOMING POND	1	-	-	130	-	-	-	130	
WD	YAWGOO POND	1	90	ND	ND	ND	ND	50	37	
WD	YAWGOO POND	10	90	ND	ND	ND	ND	60	38	

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