

2003 Nitrate-Nitrogen Data for Lakes, Ponds, and Reservoirs

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 uses to measure this nutrient. 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; it is the nutrient that stimulates plant and algae growth there.

LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Concentration at 1M	-- (ug/l or ppp) --						
Almy Pond (Newport)	ND	-	ND	-	-	ND	ND
Alton Pond	100	-	190	-	-	150	147
Ashville Pond	ND	-	ND	-	-	ND	ND
Barber Pond	90	-	ND	-	-	ND	47
Belleville Pond - Lower	80	-	ND	-	-	ND	43
Belleville Pond - upper	-	180	120	-	-	ND	108
Boone Lake	280	-	170	-	-	-	225
Bowdish Reservoir	-	ND	ND	-	-	ND	ND
Breakheart Pond	ND	-	ND	-	-	70	40
Brickyard Pond	50	-	-	-	-	-	-
Browning Mill Pond	-	-	ND	-	-	ND	ND
Carbuncle Pond	240	-	100	-	-	ND	122
Carr Pond (NK)	370	-	140	-	-	170	227
Carr Pond (WG)	60	-	60	-	-	ND	48
Chapman Pond	300	-	ND	-	-	ND	117
Coomber's Reservoir	ND	-	ND	-	-	-	ND
Deep Pond	-	ND	ND	-	-	ND	ND
Flat River Reservoir	110	-	110	-	-	ND	82
Georgiaville Pond	220	-	160	-	-	50	143
Hawkins Pond	360	-	160	-	-	70	197
Hundred Acre Pond	-	350	340	-	-	220	303
Indian Lake	290	-	70	-	-	ND	128
Keech Pond	70	-	ND	-	-	ND	40
Little Pond	230	-	ND	-	-	ND	93
Locustville Pond	-	-	110	-	-	ND	68
Long Pond (Hopkinton)	ND	-	ND	-	-	ND	ND
Long Pond (SK)	80	-	ND	-	-	ND	43
Lower Sprague Reservoir	480	-	ND	-	-	ND	177
Mashapaug Pond	210	-	ND	-	-	-	118
Meadowbrook Pond	50	-	160	-	-	ND	78
Melville Pond - Upper	2350	-	120	-	-	ND	832
Nanaquaket Pond	50	-	ND	-	-	ND	33
Oak Swamp Reservoir	390	-	90	-	-	ND	168
Pascoag Reservoir	70	-	ND	-	-	ND	40
Pasquissett Pond	110	-	140	-	-	130	127
Prince's Pond	240	-	60	-	-	ND	108

2003 Parameter Data: Nitrate-Nitrogen

LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Concentration at 1M							
-- (ug/l or ppp) --							
Queen - Usquepaug (Glen Rock)	170	-	275	-	-	290	245
Randall Pond	170	-	60	-	-	ND	85
Roger Wm Park Pond	60	-	60	-	-	-	60
Sand Pond	140	-	ND	-	-	ND	63
Saugatucket Pond	480	-	350	-	-	440	423
Saw Mill Pond (NK)	200	-	510	-	-	870	527
Schoolhouse Pond - Lower	-	ND	ND	-	-	ND	ND
Schoolhouse Pond - Upper	-	ND	ND	-	-	750	267
Secret Lake	540	-	530	-	-	ND	365
Silver Lake	50	-	ND	-	-	1120	398
Silver Spring Lake	1020	-	700	-	-	950	890
Slack's Reservoir	360	180	ND	ND	ND	ND	107
Slater Pond	ND	-	ND	-	-	ND	ND
Slatersville Res. - upper	130	-	290	-	-	130	183
Smith & Sayles Reservoir	-	ND	ND	-	-	ND	ND
Spalding Pond	60	-	ND	-	-	ND	37
Spectacle Pond	300	-	70	-	-	40	137
Spring Grove Pond	60	-	60	-	-	ND	48
Spring Lake	50	-	ND	-	-	ND	33
Stafford Pond	ND	-	ND	-	-	80	43
Stillwater Pond	170	-	70	-	-	ND	88
Tarbox Pond	ND	-	70	-	-	ND	40
Tarkiln Pond	100	-	380	-	-	50	177
Tiogue Lake	680	-	ND	-	-	90	265
Tucker Pond	ND	-	1020	-	-	ND	357
Turner Reservoir	930	-	60	-	-	1910	967
Valley Falls Pond	260	-	ND	-	-	380	222
Wallum Lake	60	-	240	-	-	-	150
Warwick Pond	630	-	ND	-	-	80	245
Watchaug Pond	90	-	ND	-	-	ND	47
Waterman Reservoir	210	-	ND	-	-	ND	87
Wenscott Reservoir	160	-	ND	-	-	ND	70
Wesquage Pond	190	-	ND	-	-	ND	80
White Pond	ND	-	ND	-	-	-	ND
Wilson Reservoir	ND	-	ND	-	-	ND	ND
Wincheck Pond	ND	-	ND	-	-	ND	ND
Woonasquatucket Res. Stump	100	-	ND	-	-	ND	50
Worden Pond	-	-	120	-	-	-	-
Wyassup Lake	ND	-	ND	-	-	ND	ND
Wyoming Pond	80	-	120	-	-	-	100
Yawgoo Pond	ND	ND	ND	50	50	ND	33

ND = No Detect Limit of Detection = 50 ppb

Mean calculated using half the limit of detection (25 ppb) for ND