

### 2003 Ammonium-N Data for Lakes, Ponds and Reservoirs

Ammonium-nitrogen is the form of nitrogen present in aquatic systems that is the most reactive. It can adhere to soils and sediment and can be toxic to aquatic organisms at high concentrations. The toxicity of ammonium-nitrogen to aquatic organisms depends on the pH and temperature of the water; for most waters, hundreds of parts per million (ppm; or 100,000 parts per billion, ppb, the units of URI Watershed Watch measurements) are needed for toxic effects (for more information on these relationships and standards, please see the EPA website at [www.epa.gov/waterscience/standards/ammonia](http://www.epa.gov/waterscience/standards/ammonia)). No URI Watershed Watch sites have ever shown levels that could be considered toxic to aquatic organism. Quite often these sites have no detectable levels of ammonium-nitrogen. Generally, ammonium-nitrogen is quickly taken up by phytoplankton or other aquatic plants or transformed to nitrate-nitrogen. High levels of ammonium-nitrogen may indicate sewage outfalls or failed septic systems.

LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
<b>Concentration at 1M</b>	<b>-- (ug/l or ppp) --</b>						
Almy Pond (Newport)	ND	-	-	-	-	-	-
Alton Pond	60	-	-	-	-	-	-
Ashville Pond	ND	-	-	-	-	ND	<b>ND</b>
Barber Pond	100	-	-	-	20	-	<b>60</b>
Belleville Pond - Lower	100	-	-	-	-	-	-
Belleville Pond - upper	-	190	-	-	-	-	-
Boone Lake	ND	-	-	-	-	-	-
Bowdish Reservoir	-	50	-	-	-	-	-
Breakheart Pond	40	-	-	-	-	-	-
Brickyard Pond	50	-	-	-	-	-	-
Carbuncle Pond	40	-	-	-	-	-	-
Carr Pond (NK)	ND	-	-	-	-	-	-
Carr Pond (WG)	40	-	-	-	-	-	-
Chapman Pond	50	-	-	-	-	-	-
Coomber's Reservoir	ND	-	-	-	-	-	-
Flat River Reservoir	40	-	-	-	-	-	-
Georgiaville Pond	ND	-	-	-	-	-	-
Hawkins Pond	50	-	-	-	-	-	-
Hundred Acre Pond	-	80	-	-	-	-	-
Indian Lake	40	-	-	-	-	ND	<b>23</b>
Keech Pond	ND	-	-	-	-	-	-
Little Pond	40	-	-	-	-	180	<b>110</b>
Long Pond (Hopkinton)	40	-	-	-	-	-	-
Long Pond (SK)	40	-	-	-	-	70	<b>55</b>
Lower Sprague Reservoir	30	-	-	-	-	-	-
Mashapaug Pond	100	-	-	-	-	-	-
Meadowbrook Pond	40	-	-	-	-	-	-
Melville Pond - Upper	50	-	-	-	-	-	-
Nanaquaket Pond	60	-	-	-	-	-	-
Oak Swamp Reservoir	50	-	-	-	-	-	-
Pascoag Reservoir	30	-	-	-	-	-	-
Pasquissett Pond	40	-	-	-	-	-	-
Prince's Pond	80	-	-	-	-	640	<b>360</b>
Queen - Usquepaug (Glen Rock)	ND	-	20	-	-	-	<b>13</b>

2003 Parameter Data: Ammonium-Nitrogen

LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
<b>Concentration at 1M</b>							
<b>-- (ug/l or ppp) --</b>							
Randall Pond	40	-	-	-	-	-	-
Roger Wm Park Pond	60	-	-	-	-	-	-
Sand Pond	80	-	-	-	-	-	-
Saugatucket Pond	150	40	440	-	-	-	<b>210</b>
Saw Mill Pond (NK)	60	-	-	-	-	60	<b>60</b>
Schoolhouse Pond - Lower	-	30	-	-	-	-	-
Schoolhouse Pond - Upper	-	130	-	-	-	-	-
Secret Lake	50	-	-	-	-	-	-
Silver Lake	50	-	-	-	-	-	-
Silver Spring Lake	70	-	-	-	-	-	-
Slack's Reservoir	30	40	-	ND	300	-	<b>95</b>
Slater Pond	80	-	-	-	-	-	-
Slatersville Res. - upper	110	-	-	-	-	-	-
Smith & Sayles Reservoir	-	40	-	-	-	-	-
Spalding Pond	50	-	-	-	-	-	-
Spectacle Pond	100	-	-	-	-	-	-
Spring Grove Pond	30	-	-	-	-	-	-
Spring Lake	40	-	-	-	-	-	-
Stafford Pond	40	-	-	-	-	-	-
Stillwater Pond	40	-	-	-	-	-	-
Tarbox Pond	40	-	-	-	-	-	-
Tarkiln Pond	50	-	-	-	-	50	<b>50</b>
Tiogue Lake	50	-	-	-	-	-	-
Tucker Pond	50	-	-	-	-	-	-
Turner Reservoir	120	-	60	-	-	-	<b>90</b>
Valley Falls Pond	160	-	-	-	-	20	<b>90</b>
Wallum Lake	50	-	-	-	-	-	-
Warwick Pond	210	-	-	-	-	300	<b>255</b>
Watchaug Pond	50	-	-	-	-	-	-
Waterman Reservoir	50	-	-	-	-	-	-
Wenscott Reservoir	30	-	-	-	-	110	<b>70</b>
Wesquage Pond	70	-	-	-	-	-	-
White Pond	30	-	-	-	-	-	-
Wilson Reservoir	30	-	-	-	-	-	-
Wincheck Pond	40	-	-	-	-	-	-
Woonasquatucket Res. Stump	60	-	-	-	-	-	-
Wyassup Lake	80	-	-	-	-	-	<b>80</b>
Wyoming Pond	80	-	-	-	-	-	<b>80</b>
Yawgoo Pond	40	40	-	-	-	460	<b>180</b>

ND = No Detect                      Limit of Detection = 10 ppb  
 Mean calculated using half the limit of detection (5 ppb) for ND