2002 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). 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
Concentration at 1M			**- - (ug/l or ppb) - -**				
ALMY POND (NEWPORT)	330	580	-	-	-	-	**455**
ALTON POND	90	-	-	-	-	-	**-**
BARBER POND	140	-	-	-	-	-	**-**
BELLEVILLE POND - LOWER	180	-	-	-	-	-	**-**
BELLEVILLE POND - UPPER	110	-	-	-	-	-	**-**
BLACKAMORE POND	200	-	-	-	-	-	**-**
BOONE LAKE	110	-	-	-	-	-	**-**
BOWDISH RESERVOIR	100	-	-	-	-	-	**-**
BREAKHEART POND	-	ND	-	-	-	-	**-**
CARBUNCLE POND	140	-	-	-	-	-	**-**
CARR POND (NK)	ND	-	-	-	-	-	**-**
CARR POND (WG)	80	-	-	-	-	-	**-**
CHAPMAN POND	140	-	-	-	-	-	**-**
COOMBER'S RESERVOIR	120	-	-	-	-	-	**-**
DEEP POND	110	-	-	-	-	-	**-**
ECHO LAKE - BARRINGTON	110	-	-	-	-	-	**-**
FLAT RIVER RESERVOIR	110	-	-	-	-	-	**-**
GEORGIAVILLE POND	100	-	80	-	-	-	**90**
HAWKINS POND	150	-	-	-	-	-	**-**
HUNDRED ACRE POND	190	-	-	-	-	-	**-**
INDIAN LAKE	100	-	-	-	-	-	**-**
JILLSON RESERVOIR (ALMY POND)	80	-	-	-	-	-	**-**
KEECH POND	80	-	ND	-	-	-	**45**
LAKE WASHINGTON	90	-	-	-	-	-	**-**
LAKE WILLIAM	-	40	-	-	-	-	**-**
LITTLE POND	130	-	-	-	-	-	**-**
LOCUSTVILLE POND	-	-	-	-	-	-	**-**
LONG POND (HOPKINTON)	90	-	-	-	-	-	**-**
LONG POND (SK)	130	-	-	-	-	-	**-**
LOWER SPRAGUE RESERVOIR	150	-	-	-	-	-	**-**
MASHAPAUG POND	360	-	-	-	-	-	**-**
MEADOWBROOK POND	70	-	-	-	-	-	**-**
MELVILLE POND - UPPER	110	-	-	-	-	-	**-**
MISHNOCK LAKE	100	-	-	-	-	-	**-**
NANAQUAKET POND	80	-	-	-	-	-	**-**

2002 Parameter Data: Ammonium-Nitrogen

LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Concentration at 1M			**- - (ug/l or ppb) - -**				
OAK SWAMP RESERVOIR	150	-	-	-	-	-	**-**
PASCOAG RESERVOIR	120	-	-	-	-	-	**-**
PASQUISETT POND	140	-	-	-	-	-	**-**
PRINCE'S POND	130	-	-	-	-	-	**-**
QUEEN - USQ. (GLEN ROCK)	90	-	-	-	-	-	**-**
RANDALL POND	140	-	-	-	-	-	**-**
ROGER WM PARK POND	340	-	-	-	-	-	**-**
SAND POND	160	-	-	-	-	-	**-**
SAUGATUCKET POND	180	-	520	-	-	-	**350**
SCHOOLHOUSE P - LOWER	80	-	-	-	-	-	**-**
SCHOOLHOUSE P - UPPER	90	-	-	-	-	-	**-**
SECRET LAKE	80	-	-	-	-	-	**-**
SILVER LAKE	150	-	-	-	-	-	**-**
SILVER SPRING LAKE	130	-	30	-	-	-	**80**
SLACK'S RESERVOIR	210	40	-	40	ND	-	**75**
SLATER POND	120	-	-	-	-	-	**-**
SLATERSVILLE RES. - UPPER	170	-	-	-	-	-	**-**
SMITH & SAYLES RESERVOIR	110	-	-	30	30	-	**57**
SPALDING POND	80	-	ND	-	-	-	**45**
SPECTACLE POND	410	-	-	-	-	-	**-**
SPRING GROVE POND	80	-	-	-	-	-	**-**
SPRING LAKE	80	-	-	-	-	-	**-**
STAFFORD POND	60	-	-	-	-	-	**-**
TARBOX POND	ND	-	-	-	-	-	**-**
TARKILN POND	50	-	-	-	-	-	**-**
TIOGUE LAKE	70	-	-	-	-	-	**-**
TUCKER POND	140	-	-	-	-	-	**-**
TURNER RESERVIOR (LOWER)	100	-	-	-	-	-	**-**
VALLEY FALLS POND	140	-	-	-	-	-	**-**
WALLUM LAKE	ND	-	-	-	-	-	**-**
WARWICK POND	130	-	-	-	-	-	**-**
WATCHAUG POND	110	-	-	-	-	-	**-**
WATERMAN RESERVOIR	70	-	-	-	-	-	**-**
WENSCOTT RESERVOIR	60	-	-	-	-	-	**-**
WESQUAGE POND	80	-	-	ND	ND	-	**33**
WHITE POND	ND	-	-	-	-	-	**-**
WILSON RESERVOIR	20	-	-	-	-	-	**-**
WOONASQUATUCKET RES. STUMP	40	-	-	-	-	-	**-**
WYASSUP LAKE	30	-	-	-	-	-	**-**
WYOMING POND	-	ND	-	-	-	-	**-**
YAWGOO POND	30	ND	-	-	40	-	**27**

ND = No Detect; Limit of Detection = 20 ppb; Mean calculated using half the limit of detection (10 ppb) for ND;
Ammonia analyzed in May lake samples, and only spordiacally the remainder of the season