

2002 Parameter Data: Ammonium-Nitrogen

2002 Ammonium-N Data for Rivers and Tributaries

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.

Section 1. Rivers; Listed alphabetically, upstream to downstream.

LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
----- (ug/l or ppb) -----							
CHEPACHET RIVER	60	-	ND	ND	-	30	30
FALLS RIVER D	30	ND	ND	40	ND	ND	ND
FALLS RIVER C	ND	ND	ND	40	ND	ND	ND
FALLS RIVER B	110	ND	ND	50	ND	50	40
FALLS RIVER A	ND	ND	ND	30	ND	ND	ND
GREEN FALLS RIVER #1	60	ND	ND	ND	40	ND	20
GREEN FALLS RIVER #2	60	ND	ND	ND	80	30	30
GREEN FALLS RIVER #3	80	ND	ND	ND	40	30	30
LOCSTV.- MOSCOW @ SAWMILL	ND	ND	ND	ND	ND	ND	ND
LOCSTV.- BRUSHY @ WOODY HI	30	ND	ND	80	ND	ND	25
LOCSTV.- BRUSHY @ SAWMILL	ND	ND	ND	40	ND	ND	ND
MEADOW BROOK #1	-	ND	ND	-	ND	ND	ND
MEADOW BROOK #2	-	ND	ND	-	ND	ND	ND
MEADOW BROOK #3	-	60	ND	-	-	ND	30
MOOSUP RIVER UPSTREAM	120	-	ND	70	ND	30	50
MOOSUP RIVER A	70	ND	ND	50	ND	ND	30
MOOSUP RIVER B	70	ND	ND	60	ND	ND	30
NARROW RIVER-01	90	50	ND	60	ND	-	40
NARROW RIVER-02 0.5M	-	-	50	150	40	-	80
NARROW RIVER-02 3.0M	-	-	ND	80	570	-	220
NARROW RIVER-03 0.5M	70	ND	ND	70	ND	-	35
NARROW RIVER-03 3.0M	200	ND	ND	40	40	-	60
NARROW RIVER-04 0.5M	130	ND	ND	60	ND	-	45
NARROW RIVER-04 3.0M	80	ND	ND	-	80	-	45
NARROW RIVER-05	190	ND	ND	60	ND	-	55
NARROW RIVER-06	150	30	ND	ND	70	-	55
NARROW RIVER-07	130	ND	ND	80	30	-	50
NARROW RIVER-08	220	ND	ND	90	80	-	80
NARROW RIVER-09	80	ND	ND	110	-	-	55

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LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
	----- (ug/l or ppb) -----						
NARROW RIVER-10	120	ND	ND	80	90	-	60
NARROW RIVER-11	ND	60	180	360	350	-	190
NARROW RIVER-12	ND	70	ND	30	60	-	35
PAWCATUCK RIVER @ AVONDAI	180	-	220	-	-	-	200
PAWCATUCK RIVER @ BRADFO	80	-	-	-	-	-	-
QUEEN RIVER (SHERMAN BRK)	ND	ND	ND	40	30	ND	ND
QUEEN RIVER (BROWNELL'S)	ND	ND	-	60	ND	40	25
QUEEN RIVER (SAND BRIDGE)	ND	ND	ND	60	ND	ND	ND
QUEEN RIVER (DUGWAY BRIDGE)	-	ND	-	-	-	-	-
QUEEN RIVER (LOCKE BROOK)	ND	ND	ND	60	ND	30	20
SHUNOCK RIVER @ BABCOCK	ND	-	ND	-	-	40	20
SHUNOCK RIVER @ HEWITT	ND	-	ND	-	-	ND	ND

Section 2. Tributaries; Alphabetically by lake, upstream to downstream as appropriate.

LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
	----- (ug/l or ppb) -----						
ASSECONK SWAMP	ND	-	ND	-	-	40	20
BARBER - MUD BROOK	50	ND	ND	70	60	-	40
BELLEVILLE @ RR XING	60	-	ND	-	-	ND	30
BELLEVILLE @ SLUICeway	100	-	60	-	-	40	70
CARR INLET (NK)	-	-	ND	-	-	80	45
GEORGIVILLE @ CAPRON PON	-	-	ND	-	-	-	-
GEORGIVILLE @ HARRIS	-	-	ND	-	-	-	-
PASQUISETT TRIBUTARY	30	-	ND	-	-	40	30
SECRET - OAK HILL EAST	40	-	-	-	-	30	35
SECRET - OAK HILL WEST	30	-	-	-	-	ND	20
SECRET - SHORE DR.	40	-	-	-	-	ND	25
SHICKASHEEN - A @ RTE 2	70	40	-	-	30	ND	40
SHICKASHEEN - B @ MISKIANIA	370	140	ND	50	90	260	155
SHICKASHEEN - C @ BARBER OI	40	40	ND	-	-	50	35
SHICKASHEEN - D @ RTE 138	80	60	-	-	-	-	70
SLACK'S TRIBUTARY #1 (A)	ND	60	ND	50	ND	ND	25
SLACK'S TRIBUTARY #2 (B)	ND	80	ND	30	ND	40	30
SLACK'S TRIBUTARY #3 (C)	ND	ND	ND	40	ND	ND	ND
SLACK'S TRIBUTARY #4 (D)	30	30	ND	ND	ND	ND	ND
SMITH & SAYLES @ KEECH	20	-	-	90	-	-	55
SMITH & SAYLES @ BALCOM	60	-	-	40	-	-	50
SMITH & SAYLES @ O'DONNEL	ND	-	ND	30	-	-	ND
STAFFORD INLET - UPSTREAM	ND	-	-	-	-	-	ND
STAFFORD INLET - DOWNSTREA	30	-	670	-	-	190	300
STAFFORD NE COVE	-	-	ND	-	-	ND	ND
WATCHAUG - PERRY HEALY BR	-	-	ND	-	-	ND	ND

ND = No Detect Limit of Detection = 20 ppb
 Mean calculated using half the limit of detection (10 ppb) for ND