

2000 Parameter Data: Ammonium-nitrogen

2000 Ammonium-Nitrogen Data for Rivers, Streams 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) -----							
BEAVER RIVER #1	70	100	80	70	40	40	67
BEAVER RIVER #2	ND	85	70	70	30	50	53
BEAVER RIVER #3	60	-	ND	40	ND	-	30
BEAVER RIVER #4	ND	100	ND	50	-	40	42
BEAVER RIVER #5	30	70	50	30	60	40	47
FALLS RIVER D	120	60	ND	-	-	30 / ND	46
FALLS RIVER C	40	30	ND	-	-	30 / ND	24
FALLS RIVER B	40	ND	ND	-	-	ND / ND	16
FALLS RIVER A	50	30	ND	-	-	ND / ND	22
GREEN FALLS RIVER #1	ND	60	50	40	-	ND	34
GREEN FALLS RIVER #2	50	ND	ND	40	-	ND	24
GREEN FALLS RIVER #3	50	60	50	70	-	40	54
MEADOW BROOK #1	ND	60	100	40	ND	30	42
MEADOW BROOK #2	ND	-	100	60	60	70	60
MEADOW BROOK #3	30	90	50	50	ND	40	45
MOOSUP RIVER A	50	60	40	-	-	40 / ND	40
MOOSUP RIVER B	50	80	ND	-	-	30 / ND	38
NARROW RIVER - 01	180	80	60	50	40	-	82
NARROW RIVER - 02 0.5M	-	-	40	70	ND	-	40
NARROW RIVER - 02 3.0M	-	-	ND	100	-	-	55
NARROW RIVER - 03 0.5M	120	40	200	80	30	-	94
NARROW RIVER - 03 3.0M	240	80	400	130	60	-	182
NARROW RIVER - 04 0.5M	370	90	80	60	40	-	128
NARROW RIVER - 04 3.0M	-	110	150	120	100	-	120
NARROW RIVER - 05	80	40	ND	90	30	-	50
NARROW RIVER - 06	180	50	40	70	30	-	74
NARROW RIVER - 07	100	80	40	110	70	-	80
NARROW RIVER - 08	150	50	50	140	100	-	98
NARROW RIVER - 09	160	230	70	120	90	-	134
NARROW RIVER - 10	140	180	50	200	50	60	113
NARROW RIVER - 11	40	70	130	70	60	-	74
NARROW RIVER - 12	-	40	50	-	50	-	47
PAWCATUCK RIVER AT BRADFOF	60	-	45	-	-	30	34

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LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
----- (ug/l or ppb) -----							
QUEEN RIVER #1	ND	30	40	60	ND	30	30
QUEEN RIVER #2	ND	30	-	30	ND	30	22
QUEEN RIVER #3	-	ND	-	80	30	30	38
QUEEN RIVER #4	ND	40	ND	-	50	40	30
QUEEN RIVER #5	ND	40	30	40	ND	-	26
SHUNOCK RIVER @ BABCOCK	60	-	50	-	-	30	47
SHUNOCK RIVER @ HEWITT	50	-	50	-	-	ND	37
WOOD RIVER @ RTE 165	-	-	ND	-	30	ND	17
WOOD RIVER @ WOODVILLE	50	ND	ND	-	-	40	28

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

LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
----- (ug/l or ppb) -----							
ASSECONK SWAMP	50	-	50	-	-	40	47
BARBER - MUD BROOK	ND	-	ND	40	30	30	24
BELLEVILLE @ RR XING	ND	-	30	-	-	40	27
BELLEVILLE @ SLUICeway	90	-	60	-	-	40	63
BOONE TRIBUTARY #1	50	-	50	-	-	-	50
BOONE TRIBUTARY #2	60	-	180	-	-	-	120
CARR INLET (NK)	-	-	40	-	-	-	-
FLAT RIVER @ ZEKE'S BRIDGE	-	30	-	-	-	60	45
FLAT RIVER @ ISLE OF CAPRI	-	40	-	-	-	40	40
FLAT RIVER @ MAPLE VALLEY	-	-	-	-	-	ND	10
GEORGIVILLE @ CAPRON POND	-	-	30	-	-	90	60
GEORGIVILLE @ HARRIS	70	-	30	-	-	30	43
LOC - BRUSHY BR @ WOODY HILI	-	-	-	30	ND	-	20
LOC - BRUSHY BR @ SAWMILL RE	ND	ND	ND	ND	ND	-	10
LOC - DAWLEY BRK @ DYE HILL F	60	40	-	-	40	-	47
LOC - LOGHSE BRK NEAR GRASS	-	-	-	-	ND	-	10
LOC - MOSCOW BRK AT SAWMILL	30	40	40	ND	30	-	30
MEADOW BROOK INLET	80	-	-	-	-	-	-
PASQUISETT TRIBUTARY	30	-	-	-	-	60	45
SECRET - OAK HILL WEST	50	-	30	-	-	30	37
SECRET - OAK HILL EAST	-	-	50	-	-	40	45
SECRET - SHORE DR.	ND	-	60	-	-	50	40
SHICKASHEEN @ RTE 2	ND	-	-	60	30	30	33
SHICKASHEEN @ MISKIANIA	100	-	30	ND	30	40	42
SHICKASHEEN @ BARBER OUTLE	80	-	ND	30	30	-	38
SHICKASHEEN @ RTE 138	80	-	70	100	40	-	73
SLACK'S TRIBUTARY #1 (A)	140	100	110	100	210	40	117
SLACK'S TRIBUTARY #2 (B)	130	ND	390	80	ND	ND	105
SLACK'S TRIBUTARY #3 (C)	130	30	ND	40	ND	40	43
SLACK'S TRIBUTARY #4 (D)	160	50	ND	50	30	30	55
SMITH & SAYLES - KEECH	70	-	ND	-	-	ND	30
SMITH & SAYLES - BALCOM	50	-	50	-	-	30	43

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LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
	----- (ug/l or ppb) -----						
SMITH & SAYLES - O'DONNELL	-	-	ND	-	-	ND	10
STAFFORD INLET - UPSTREAM	90	-	-	-	-	-	90
STAFFORD INLET - DOWNSTREAM	120	-	900	-	-	380	467
STAFFORD COVE - NORTH						ND	
STAFFORD COVE - NORTHEAST						ND	
WATCHAUG - PERRY HEALY BRK	ND	-	ND	-	-	30	17

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