

2002 Parameter Data: Nitrate-Nitrogen

2002 Nitrate-Nitrogen Data for Rivers and Tributaries

Nitrate-nitrogen is typically the most common form of inorganic nitrogen in lakes and streams. Nitrate-nitrogen 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.

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

LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
----- (ug/l or ppb) -----							
CHEPACHET RIVER	60	-	90	130	-	60	85
FALLS RIVER D	ND	90	80	140	30	nd	60
FALLS RIVER C	30	130	190	190	50	30	105
FALLS RIVER B	20	120	80	50	50	nd	55
FALLS RIVER A	20	100	50	30	50	nd	45
GREEN FALLS RIVER #1	20	80	160	40	160	30	80
GREEN FALLS RIVER #2	20	80	100	50	200	20	80
GREEN FALLS RIVER #3	180	280	2080	700	3470	940	1275
LOCSTV.- MOSCOW @ SAWMILL	30	40	90	220	50	50	80
LOCSTV.- BRUSHY @ WOODY HI	ND	ND	50	60	ND	ND	25
LOCSTV.- BRUSHY @ SAWMILL	ND	90	500	660	70	90	230
MEADOW BROOK #1	-	70	ND	-	60	40	45
MEADOW BROOK #2	-	70	50	-	100	70	75
MEADOW BROOK #3	-	70	150	-	-	ND	80
MOOSUP RIVER UPSTREAM	60	-	130	60	150	70	95
MOOSUP RIVER A	40	40	190	110	50	30	80
MOOSUP RIVER B	20	30	160	170	50	30	80
NARROW RIVER-01	330	250	90	40	ND	-	145
NARROW RIVER-02 0.5M	220	-	ND	ND	ND	-	65
NARROW RIVER-02 3.0M	-	-	ND	ND	ND	-	ND
NARROW RIVER-03 0.5M	70	ND	ND	ND	ND	-	20
NARROW RIVER-03 3.0M	ND	ND	ND	ND	ND	-	ND
NARROW RIVER-04 0.5M	1030	ND	ND	ND	ND	-	265
NARROW RIVER-04 3.0M	140	ND	ND	-	20	-	45
NARROW RIVER-05	70	ND	ND	ND	ND	-	25
NARROW RIVER-06	160	ND	ND	ND	ND	-	50
NARROW RIVER-07	70	ND	ND	ND	ND	-	25
NARROW RIVER-08	70	ND	ND	ND	ND	-	25
NARROW RIVER-09	20	ND	ND	ND	-	-	ND
NARROW RIVER-10	40	ND	ND	ND	30	-	25
NARROW RIVER-11	2130	2200	80	70	180	-	930
NARROW RIVER-12	860	810	1060	990	420	-	830
PAWCATUCK RIVER @ BRADFO	170	-	670	-	-	230	360

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LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
----- (ug/l or ppb) -----							
PAWCATUCK RIVER @ AVONDAI	190	-	ND	-	-	-	100
QUEEN RIVER (SHERMAN BRK)	40	50	240	60	ND	60	80
QUEEN RIVER (BROWNELL'S)	170	130	-	860	180	240	315
QUEEN RIVER (SAND BRIDGE)	270	140	530	760	130	180	335
QUEEN RIVER (DUGWAY BRIDGE)	-	110	-	-	-	-	110
QUEEN RIVER (LOCKE BROOK)	110	80	200	230	50	40	120
SHUNOCK RIVER @ BABCOCK	100	-	70	-	-	300	160
SHUNOCK RIVER @ HEWITT	130	-	500	-	-	40	225

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	20	-	ND	-	-	ND	ND
BARBER - MUD BROOK	310	180	-	190	80	70	165
BELLEVILLE @ RR XING	180	-	70	-	-	270	175
BELLEVILLE @ SLUICEWAY	690	-	120	-	-	500	440
BOON E TRIBUTARY	310	-	-	-	-	-	310
CARR INLET (NK)	600	-	450	-	-	90	380
GEORGIAVILLE @ CAPRON PON	-	-	70	-	-	-	70
GEORGIAVILLE @ HARRIS	-	-	30	-	-	-	30
PASQUISETT TRIBUTARY	210	-	140	-	-	110	155
SECRET - OAK HILL EAST	1300	-	-	-	-	870	1085
SECRET - OAK HILL WEST	1230	-	-	-	-	870	1050
SECRET - SHORE DR.	100	-	-	-	-	30	65
SHICKASHEEN - A @ RTE 2	40	50	-	-	-	-	45
SHICKASHEEN - B @ MISKIANIA	300	490	-	900	130	260	415
SHICKASHEEN - C @ BARBER OI	110	50	-	30	-	-	65
SHICKASHEEN - D @ RTE 138	130	40	-	-	-	-	85
SLACK'S TRIBUTARY #1 (A)	ND	40	ND	ND	-	ND	ND
SLACK'S TRIBUTARY #2 (B)	590	290	2460	1660	750	1570	1220
SLACK'S TRIBUTARY #3 (C)	410	130	ND	30	60	330	160
SLACK'S TRIBUTARY #4 (D)	320	90	ND	ND	ND	ND	75
SMITH & SAYLES @ KEECH	90	-	20	80	80	-	70
SMITH & SAYLES @ BALCOM	480	-	140	ND	ND	-	160
SMITH & SAYLES @ O'DONNEL	130	-	30	30	30	-	55
STAFFORD INLET - UPSTREAM	20	-	-	-	-	-	-
STAFFORD INLET - DOWNSTREA	1070	-	ND	-	-	220	435
STAFFORD NE COVE	-	-	ND	-	-	ND	ND
WATCHAUG - PERRY HEALY BR	-	-	490	-	-	60	275

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