

2003 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	80	50	130	150	70	110	98
FALLS RIVER D	80	ND	50	140	ND	30	58
FALLS RIVER C	60	ND	90	190	60	80	84
FALLS RIVER B	60	ND	80	180	60	70	79
FALLS RIVER A	60	ND	70	170	60	40	71
GREEN FALLS RIVER #1	120	60	130	200	110	100	120
GREEN FALLS RIVER #2	100	90	380	180	220	530	250
GREEN FALLS RIVER #3	430	300	1230	990	690	1335	829
LOCSTV.- MOSCOW @ SAWMILL	ND	ND	50	40	ND	50	36
LOCSTV.- BRUSHY @ WOODY HILL	ND	ND	60	ND	ND	ND	31
LOCSTV.- BRUSHY @ SAWMILL	190	100	470	160	200	340	243
MOOSUP RIVER UPSTREAM	120	80	280	230	140	170	170
MOOSUP RIVER A	60	ND	130	280	ND	ND	91
MOOSUP RIVER B	60	ND	130	220	ND	80	90
NARROW RIVER-01	320	310	100	330	60	-	224
NARROW RIVER-02 0.5M	-	120	ND	-	30	-	58
NARROW RIVER-02 3.0M	-	3250	ND	-	30	-	1102
NARROW RIVER-03 0.5M	240	160	ND	-	ND	-	113
NARROW RIVER-03 3.0M	100	50	ND	-	ND	-	50
NARROW RIVER-04 0.5M	250	150	ND	ND	ND	-	95
NARROW RIVER-04 3.0M	-	70	ND	ND	ND	-	36
NARROW RIVER-05	310	130	ND	40	ND	-	106
NARROW RIVER-06	260	230	ND	ND	ND	-	113
NARROW RIVER-07	250	140	ND	ND	ND	-	93
NARROW RIVER-08	170	100	ND	ND	ND	-	69
NARROW RIVER-09	80	ND	ND	ND	ND	-	36
NARROW RIVER-10	100	80	ND	ND	ND	-	51
NARROW RIVER-11	570	2070	2820	2760	2140	-	2072
NARROW RIVER-12	490	780	760	510	520	820	647
PAWCATUCK RIVER @ BRADFORD	200	160	400	330	360	610	343
P'TUCK RIVER @ AVONDALE 1M	80	210	140	80	100	170	130
P'TUCK RIVER @ AVONDALE 3M	-	-	210	50	60	ND	86

2003 Parameter Data: Nitrate-Nitrogen

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

LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
----- (ug/l or ppb) -----							
QUEEN RIVER (SHERMAN BROOK)	60	60	170	50	120	-	92
QUEEN RIVER (BROWNELL'S)	440	270	510	-	-	-	407
QUEEN RIVER (SAND BRIDGE)	400	260	390	320	390	440	367
QUEEN RIVER (LOCKE BROOK)	120	100	190	170	190	ND	133
SHUNOCK RIVER @ BABCOCK	170	-	420	-	-	450	347
SHUNOCK RIVER @ HEWITT	120	-	350	-	-	220	230
WOONASQ RIV @ DANIGIAN PARK	770	480	820	800	890	1930	948

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	-	-	ND	ND
BARBER - MUD BROOK	240	200	180	100	-	150	174
BELLEVILLE @ RR XING	430	-	290	-	-	440	387
BELLEVILLE @ SLUICEWAY	860	-	490	-	-	890	747
CARR INLET (NK)	-	-	460	-	-	920	690
FRR @ ZEKE'S BRIDGE	-	-	60	-	-	-	-
FRR @ ISLE OF CAPRI RD.	-	-	ND	-	-	-	-
FRR @ MAPEL VALLEY RD.	-	-	190	-	-	-	-
GEORGIAVILLE @ CAPRON POND	-	-	100	-	-	130	115
GEORGIAVILLE @ HARRIS	-	-	210	-	-	90	150
PASQUISETT TRIBUTARY	-	-	110	-	-	140	125
SAWMILL POND TRIBUTARY	-	250	-	-	550	-	400
SECRET - OAK HILL EAST	990	-	1590	-	-	2120	1567
SECRET - OAK HILL WEST	1040	-	1720	-	-	2350	1703
SECRET - SHORE DR.	100	-	ND	-	-	ND	48
SHICKASHEEN - A @ RTE 2	ND	ND	ND	ND	ND	ND	ND
SHICKASHEEN - B @ MISKIANIA	110	90	200	160	60	80	117
SHICKASHEEN - C @ BARBER OUTLET	90	ND	ND	ND	ND	ND	36
SHICKASHEEN - D @ RTE 138	-	-	100	100	110	390	175
SLACK'S TRIBUTARY #1 (A)	120	60	ND	ND	ND	ND	49
SLACK'S TRIBUTARY #2 (B)	1170	900	1880	1540	1430	1730	1442
SLACK'S TRIBUTARY #3 (C)	300	260	330	370	470	500	372
SLACK'S TRIBUTARY #4 (D)	150	210	170	170	280	460	240
SMITH & SAYLES @ KEECH	-	-	-	-	-	ND	-
SMITH & SAYLES @ BALCOM	-	-	-	-	-	ND	-
SMITH & SAYLES @ O'DONNELL	-	-	-	-	-	80	-
STAFFORD INLET - DOWNSTREAM	-	-	1020	-	-	ND	523
STAFFORD NE COVE	-	-	60	-	-	140	100
WATCHAUG - PERRY HEALY BRK	-	-	-	-	-	300	300
WATERMAN - RTE 44	90	-	60	-	-	ND	58
WATERMAN - SAWMILL	130	-	180	-	-	190	167

ND = No Detect Limit of Detection = 50 ppb
 Mean calculated using half the limit of detection (25 ppb) for ND