

### 2003 Total Phosphorus Data for Rivers and Tributaries

In fresh water lakes, ponds, reservoirs and streams, phosphorus is the nutrient that has the most influence on plant growth. Just parts per billion (ppb) increases are needed to stimulate the growth of algae. Measurement of total phosphorus includes readily available dissolved phosphorus as well as particulate phosphorus and organic forms of phosphorus. Phosphorus readily binds to lake sediments and can be later released back into the water column if there is no oxygen in the bottom water of the lake in a process known as internal recycling.

#### The Council for Environmental Quality recommends:

In stream Total Phosphorus < 100 ppb

Where a stream discharges into a lake, pond or reservoir < 50 ppb

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

LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
----- (ug/l or ppb) -----							
CHEPACHET RIVER	7	17	28	26	9	12	17
FALLS RIVER D	30	73	97	105	44	68	70
FALLS RIVER C	29	281	65	68	43	48	89
FALLS RIVER B	20	30	53	69	68	44	47
FALLS RIVER A	20	33	52	58	37	37	40
GREEN FALLS RIVER #1	ND	ND	23	18	8	8	7
GREEN FALLS RIVER #2	25	10	33	31	11	12	20
GREEN FALLS RIVER #3	8	24	36	26	15	21	22
LOCSTV.- MOSCOW @ SAWMILL	5	5	7	10	ND	8	7
LOCSTV.- BRUSHY @ WOODY HILL	6	ND	14	23	ND	13	6
LOCSTV.- BRUSHY @ SAWMILL	5	7	12	15	5	11	9
MOOSUP RIVER UPSTREAM	19	24	52	32	17	38	30
MOOSUP RIVER A	10	14	46	49	21	25	28
MOOSUP RIVER B	9	13	46	32	17	19	23
NARROW RIVER-01	13	10	15	16	9	-	13
NARROW RIVER-02 0.5M	-	23	34	-	24	-	27
NARROW RIVER-02 3.0M	-	34	43	-	22	-	33
NARROW RIVER-03 0.5M	34	14	33	-	18	-	25
NARROW RIVER-03 3.0M	240	13	38	-	23	-	79
NARROW RIVER-04 0.5M	22	16	36	32	51	-	31
NARROW RIVER-04 3.0M	-	13	45	33	33	-	31
NARROW RIVER-05	23	16	29	34	17	-	24
NARROW RIVER-06	21	23	38	70	28	-	36
NARROW RIVER-07	21	16	26	35	25	-	25
NARROW RIVER-08	25	16	49	48	37	-	35
NARROW RIVER-09	46	14	53	75	76	-	53
NARROW RIVER-10	47	22	36	60	39	-	41
NARROW RIVER-11	20	20	19	32	43	-	27
NARROW RIVER-12	12	ND	162	26	11	16	38
PAWCATUCK RIVER @ BRADFORD	25	31	68	68	61	108	60
P'TUCK RIVER @ AVONDALE 1M	46	76	53	47	52	60	56
P'TUCK RIVER @ AVONDALE 3M	-	-	47	47	49	63	52
QUEEN RIVER (SHERMAN BRK)	20	ND	19	11	9	11	12

2003 Parameter Data: Total Phosphorus

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

LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
----- (ug/l or ppb) -----							
QUEEN RIVER (BROWNELL'S)	10	8	26	-	-	-	15
QUEEN RIVER (SAND BRIDGE)	11	12	32	20	17	14	18
QUEEN RIVER (LOCKE BROOK)	22	14	27	12	13	13	17
SHUNOCK RIVER @ BABCOCK	18	-	218	-	-	42	93
SHUNOCK RIVER @ HEWITT	11	-	39	-	-	26	25
WOONASQ RIV @ DANIGIAN PARK	128	71	126	110	853	113	234

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	18	-	68	-	-	67	51
BARBER - MUD BROOK	4	43	16	198	18	9	48
BELLEVILLE @ RR XING	180	-	67	-	-	26	91
BELLEVILLE @ SLUICEWAY	11	-	20	-	-	11	14
CARR INLET (NK)	-	-	22	-	-	8	15
FRR @ ZEKE'S BRIDGE	-	-	16	-	-	-	-
FRR @ ISLE OF CAPRI RD.	-	-	15	-	-	-	-
FRR @ MAPEL VALLEY RD.	-	-	141	-	-	-	-
GEORGIAVILLE @ CAPRON POND	-	-	15	-	-	13	14
GEORGIAVILLE @ HARRIS	-	-	11	-	-	13	12
PASQUISETT TRIBUTARY	-	-	130	-	-	20	75
SAWMILL POND TRIBUTARY	-	8	20	-	42	-	23
SECRET - OAK HILL EAST	10	-	22	-	-	11	14
SECRET - OAK HILL WEST	6	-	332	-	-	8	115
SECRET - SHORE DR.	10	-	54	-	-	15	26
SHICKASHEEN - A @ RTE 2	8	14	1167	262	50	-	300
SHICKASHEEN - B @ MISKIANIA	35	53	68	65	47	-	54
SHICKASHEEN - C @ BARBER OUTLE	12	20	14	10	ND	-	12
SHICKASHEEN - D @ RTE 138	-	-	17	21	9	-	16
SLACK'S TRIBUTARY #1 (A)	36	40	98	107	21	53	59
SLACK'S TRIBUTARY #2 (B)	8	5	35	32	110	15	34
SLACK'S TRIBUTARY #3 (C)	8	14	26	22	318	16	67
SLACK'S TRIBUTARY #4 (D)	9	8	27	20	30	21	19
SMITH & SAYLES @ KEECH	-	-	16	-	-	9	13
SMITH & SAYLES @ BALCOM	-	-	11	-	-	12	12
SMITH & SAYLES @ O'DONNELL	-	-	ND	-	-	7	5
STAFFORD INLET - DOWNSTREAM	-	-	1553	-	-	320	937
STAFFORD NE COVE	-	-	50	-	-	34	42
WATCHAUG - PERRY HEALY BRK	-	-	-	-	-	14	-
WATERMAN - RTE 44	9	-	22	-	-	15	15
WATERMAN - SAWMILL	7	-	16	-	-	14	12

ND = No Detect                      Limit of Detection = 3 ppb

Mean calculated using half the limit of detection (1.5 ppb) for ND