

2002 Parameter Data: Total Phosphorus

2002 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	-	11	21	-	8	12
FALLS RIVER D	21	68	68	86	55	28	54
FALLS RIVER C	22	45	27	25	24	13	26
FALLS RIVER B	31	38	24	15	18	14	23
FALLS RIVER A	53	52	12	19	19	13	28
GREEN FALLS RIVER #1	ND	7	7	21	8	7	9
GREEN FALLS RIVER #2	5	16	14	15	12	13	13
GREEN FALLS RIVER #3	7	19	8	11	21	19	14
LOCSTV.- MOSCOW @ SAWMILL	ND	9	5	9	7	6	6
LOCSTV.- BRUSHY @ WOODY HII	ND	9	13	14	9	7	9
LOCSTV.- BRUSHY @ SAWMILL	5	14	7	15	14	7	10
MEADOW BROOK #1	-	25	54	-	8	10	24
MEADOW BROOK #2	-	22	36	-	14	17	22
MEADOW BROOK #3	-	28	20	-	-	38	29
MOOSUP RIVER UPSTREAM	20	26	27	17	28	36	26
MOOSUP RIVER A	14	25	24	64	26	14	28
MOOSUP RIVER B	13	24	14	97	35	13	33
NARROW RIVER-01	16	15	11	15	9	-	13
NARROW RIVER-02 0.5M	-	-	18	59	51	-	43
NARROW RIVER-02 3.0M	-	-	31	55	54	-	47
NARROW RIVER-03 0.5M	10	21	25	52	53	-	32
NARROW RIVER-03 3.0M	8	35	17	59	22	-	28
NARROW RIVER-04 0.5M	17	34	13	67	51	-	36
NARROW RIVER-04 3.0M	24	38	13	67	49	-	38
NARROW RIVER-05	62	38	27	61	52	-	48
NARROW RIVER-06	ND	46	27	16	27	-	24
NARROW RIVER-07	14	34	31	168	32	-	56
NARROW RIVER-08	5	37	15	69	53	-	36
NARROW RIVER-09	8	40	42	57	-	-	37
NARROW RIVER-10	5	35	38	63	66	-	41
NARROW RIVER-11	6	28	13	47	19	-	23
NARROW RIVER-12	3	37	17	24	24	-	21

2002 Parameter Data: Total Phosphorus

LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
	----- (ug/l or ppb) -----						
PAWCATUCK RIVER @ BRADFOR	18	-	155	-	-	78	84
PAWCATUCK RIVER @ AVONDAL	13	-	117	-	-	-	65
QUEEN RIVER (SHERMAN BRK)	ND	14	6	DRY	8	5	7
QUEEN RIVER (BROWNELL'S)	6	16	7	16	18	15	13
QUEEN RIVER (SAND BRIDGE)	4	31	7	43	15	10	18
QUEEN RIVER (DUGWAY BRIDGE)	-	15	-	-	-	-	15
QUEEN RIVER (LOCKE BROOK)	4	21	ND	14	11	13	11
SHUNOCK RIVER @ BABCOCK	8	-	21	-	-	12	14
SHUNOCK RIVER @ HEWITT	5	-	16	-	-	22	14

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	6	-	77	-	-	19	34
BARBER - MUD BROOK	9	27	12	40	13	14	19
BELLEVILLE @ RR XING	38	-	70	-	-	87	65
BELLEVILLE @ SLUICeway	11	-	19	-	-	8	13
BOON E TRIBUTARY	5	-	-	-	-	-	-
CARR INLET (NK)	23	-	8	-	-	12	14
GEORGIVILLE @ CAPRON POND	-	-	9	-	-	-	-
GEORGIVILLE @ HARRIS	-	-	10	-	-	-	10
PASQUISETT TRIBUTARY	5	-	18	-	-	10	11
SECRET - OAK HILL EAST	11	-	7	-	-	29	16
SECRET - OAK HILL WEST	21	-	9	-	-	10	13
SECRET - SHORE DR.	7	-	-	-	-	8	8
SHICKASHEEN - A @ RTE 2	14	37	DRY	DRY	32	19	26
SHICKASHEEN - B @ MISKIANIA	131	329	200	155	155	42	169
SHICKASHEEN - C @ BARBER OL	20	30	28	DRY	DRY	9	22
SHICKASHEEN - D @ RTE 138	14	29	-	-	-	-	22
SLACK'S TRIBUTARY #1 (A)	34	70	10	14	8	4	23
SLACK'S TRIBUTARY #2 (B)	17	67	13	20	27	ND	24
SLACK'S TRIBUTARY #3 (C)	11	50	10	18	16	7	19
SLACK'S TRIBUTARY #4 (D)	6	34	7	15	11	7	13
SMITH & SAYLES @ KEECH	12	-	2	13	-	-	9
SMITH & SAYLES @ BALCOM	15	-	14	13	-	-	14
SMITH & SAYLES @ O'DONNELL	9	-	3	8	-	-	7
STAFFORD INLET - UPSTREAM	74	-	DRY	-	-	-	-
STAFFORD INLET - DOWNSTREAM	243	-	1051	-	-	160	485
STAFFORD NE COVE	-	-	21	-	-	20	21
WATCHAUG - PERRY HEALY BRK	-	-	24	-	-	11	18
WATERMAN TRIB - NINE FOOT BR	-	-	-	-	-	13	-
WATERMAN TRIB - SAW MILL BR	-	-	-	-	-	20	-

ND = No Detect Limit of Detection = 3 ppb
 Mean calculated using half the limit of detection (1.5 ppb) for ND