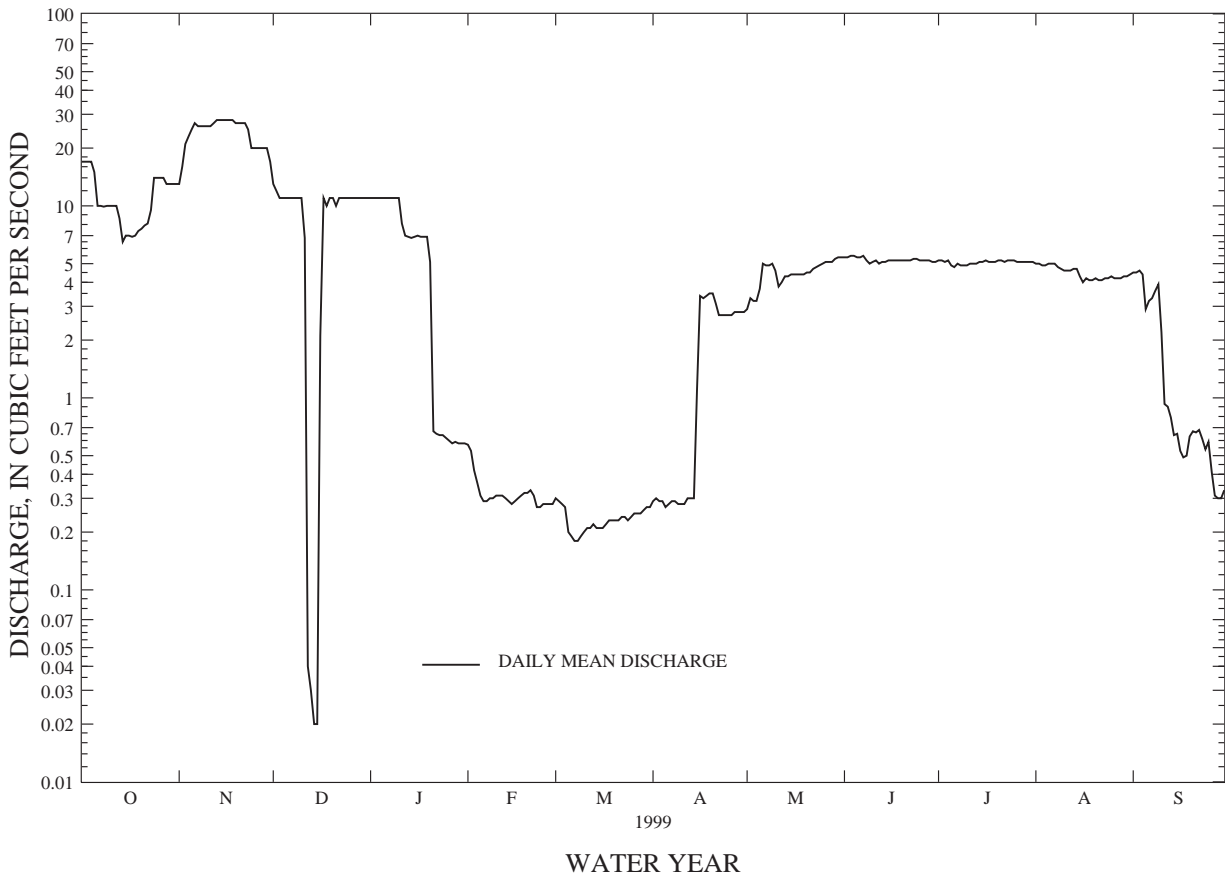


01104430 HOBBS BROOK BELOW CAMBRIDGE RESERVOIR NEAR KENDAL GREEN, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1997 - 1999	
ANNUAL TOTAL	4815.17		2241.74		9.46	
ANNUAL MEAN	13.2		6.14		12.8	
HIGHEST ANNUAL MEAN					1998	
LOWEST ANNUAL MEAN					1999	
HIGHEST DAILY MEAN	30	Jun 19	28	Nov 13	30	Jun 19 1998
LOWEST DAILY MEAN	.02	Dec 14	.02	Dec 14	.02	Dec 14 1998
ANNUAL SEVEN-DAY MINIMUM	.19	Mar 10	.19	Mar 5	.19	Mar 10 1998
INSTANTANEOUS PEAK FLOW			29		32	
INSTANTANEOUS PEAK STAGE			1.69		1.98	
INSTANTANEOUS LOW FLOW			.02		.02	
10 PERCENT EXCEEDS	27		14		25	
50 PERCENT EXCEEDS	10		4.9		6.8	
90 PERCENT EXCEEDS	2.8		.28		.30	

HOBBS BROOK BELOW HOBBS BROOK RESERVOIR
NEAR KENDAL GREEN, MA 01104430



01104430 HOBBS BROOK BELOW CAMBRIDGE RESERVOIR NEAR KENDAL GREEN, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1997 to current year.

PERIOD OF DAILY RECORD.--

- SPECIFIC CONDUCTANCE: July 1997 to current year.
- WATER TEMPERATURE: July 1997 to current year.
- CALCIUM CONCENTRATION: October 1997 to September 1998 (discontinued).
- CALCIUM LOAD: October 1997 to September 1998 (discontinued).
- SODIUM CONCENTRATION: October 1997 to September 1998 (discontinued).
- SODIUM LOAD: October 1997 to September 1998 (discontinued).
- CHLORIDE CONCENTRATION: October 1997 to September 1998 (discontinued).
- CHLORIDE LOAD: October 1997 to September 1998 (discontinued).

INSTRUMENTATION.--Specific conductance and temperature water-quality monitor.

REMARKS.--Records good, except those for the period July 31 to Sept. 3, which are fair, and those for estimated specific conductances, which are poor.

EXTREMES FOR PERIOD OF RECORD.--

- SPECIFIC CONDUCTANCE: Maximum recorded, 858 µS/cm, Feb. 9, 1999; minimum, 334 µS/cm, Jan. 3, 1999.
- WATER TEMPERATURE: Maximum recorded, 23.7°C, Aug. 28, 1998; minimum, 0.9°C, Mar. 8, 9, 1999.
- CALCIUM CONCENTRATION: Maximum daily mean, 25 mg/L, Feb. 3, 4, 1998; minimum daily mean, 15 mg/L, many days.
- CALCIUM LOAD: Maximum daily, 1.50 tons, June 19, 1998; minimum daily, 0.00 tons, Nov. 17, 18, 1997.
- SODIUM CONCENTRATION: Maximum daily mean, 98 mg/L, Feb. 3, 1998; minimum daily mean, 53 mg/L, several days.
- SODIUM LOAD: Maximum daily, 5.45 tons, June 19, 1998; minimum daily, 0.01 tons, Nov. 18, 1997.
- CHLORIDE CONCENTRATION: Maximum daily mean, 180 mg/L, Feb. 3, 4, 1998; minimum daily mean, 96 mg/L, Sept. 29, 30, 1998.
- CHLORIDE LOAD: Maximum daily, 9.91 tons, June 19, 1998; minimum daily, 0.03 tons, Nov. 17, 18, 1997.

EXTREMES FOR CURRENT YEAR.--

- SPECIFIC CONDUCTANCE: Maximum recorded, 858 µS/cm, Feb. 9; minimum, 334 µS/cm, Jan. 3.
- WATER TEMPERATURE: Maximum recorded, 23.6, July 23; minimum, 0.9°C, Mar. 8, 9.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

SPECIFIC CONDUCTANCE (µS/CM AT 25°C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	399	397	398	386	385	386	402	400	401	437	433	435
2	398	395	396	387	384	385	401	400	401	441	437	440
3	396	394	396	385	384	385	401	399	400	443	334	432
4	397	394	395	384	382	384	401	400	400	437	434	435
5	396	395	395	383	382	382	401	400	400	440	435	438
6	406	394	399	382	381	382	400	399	400	476	437	440
7	406	404	405	383	381	381	401	398	400	459	439	441
8	407	401	406	382	380	381	401	397	399	467	442	445
9	401	386	393	382	380	381	399	397	398	457	446	449
10	394	385	392	398	380	389	398	397	397	471	448	452
11	389	386	388	398	396	397	e432	e403	e420	503	449	452
12	388	387	388	398	396	397	e432	e428	e430	454	451	452
13	388	388	388	397	397	397	e432	e428	e430	467	454	460
14	389	385	388	397	396	397	e432	e428	e430	469	467	468
15	387	385	386	398	397	397	e432	e428	e430	498	466	481
16	387	385	386	398	396	397	436	406	e419	496	486	490
17	387	385	386	398	396	396	411	407	409	489	487	488
18	388	386	387	397	396	397	416	410	415	507	489	495
19	388	386	387	397	395	396	416	414	415	535	506	516
20	388	387	388	401	395	398	417	415	417	703	535	597
21	388	387	388	402	400	401	419	416	417	773	701	737
22	389	387	388	403	401	402	419	408	415	838	773	810
23	389	387	387	404	401	402	419	416	418	845	795	825
24	388	386	387	404	402	403	420	417	419	854	809	831
25	388	386	387	404	403	403	424	419	421	846	753	796
26	389	388	388	404	394	402	431	423	428	840	808	820
27	389	387	388	401	399	400	433	429	431	816	757	772
28	388	387	388	401	399	400	434	431	433	814	755	779
29	388	386	387	402	400	401	435	428	433	813	707	756
30	387	386	386	401	400	401	431	428	430	818	726	761
31	387	385	386	---	---	---	434	430	431	787	704	746
MONTH	407	385	391	404	380	394	436	397	416	854	334	579

e Estimated

CHARLES RIVER BASIN

01104430 HOBBS BROOK BELOW CAMBRIDGE RESERVOIR NEAR KENDAL GREEN, MA--Continued

SPECIFIC CONDUCTANCE (µS/CM AT 25°C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	783	703	738	536	528	534	565	560	563	620	618	619
2	839	704	766	538	526	535	569	564	566	618	616	618
3	811	747	781	535	524	531	571	566	568	620	617	619
4	814	771	794	588	511	549	574	570	571	618	613	615
5	815	722	769	552	529	540	574	570	572	613	610	611
6	835	746	804	543	534	539	576	572	574	613	611	612
7	836	693	778	543	535	540	579	570	576	613	610	612
8	856	691	753	544	539	542	583	578	580	613	611	612
9	858	739	790	545	541	543	595	581	585	612	607	609
10	793	693	761	549	543	546	598	594	597	608	606	607
11	815	677	751	549	545	547	599	597	598	609	606	608
12	804	762	781	546	543	545	599	596	598	609	607	608
13	807	726	771	546	540	544	601	598	599	639	607	624
14	782	664	729	544	540	543	601	598	599	638	636	637
15	736	645	685	543	539	540	605	599	602	638	635	637
16	777	720	750	546	541	544	606	603	604	636	634	635
17	720	559	665	546	530	540	604	602	603	636	632	634
18	560	542	549	546	524	537	603	601	602	634	632	633
19	600	559	579	546	536	541	605	602	604	634	631	633
20	606	539	570	552	535	543	605	603	604	632	629	631
21	546	531	538	543	536	540	604	603	604	630	627	629
22	563	532	542	551	533	541	605	603	604	629	626	628
23	539	527	534	553	547	550	617	603	606	628	623	626
24	539	536	537	553	547	550	618	604	612	625	622	624
25	540	537	539	551	546	549	617	604	607	624	620	622
26	541	535	539	553	549	551	619	603	607	621	614	618
27	542	535	540	554	550	553	620	618	619	617	613	615
28	590	531	544	554	549	552	619	618	618	619	615	617
29	---	---	---	555	552	553	619	617	618	619	616	617
30	---	---	---	558	553	556	620	617	619	618	616	617
31	---	---	---	562	556	557	---	---	---	619	615	617
MONTH	858	527	674	588	511	544	620	560	596	639	606	621
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	617	612	615	627	623	626	654	632	640	707	681	696
2	617	615	616	628	625	626	656	633	641	698	680	691
3	617	615	616	630	625	628	657	638	645	695	686	693
4	618	615	617	630	623	627	659	646	652	695	688	693
5	617	615	616	628	621	626	668	653	659	694	688	693
6	619	615	617	628	624	626	667	653	659	692	690	692
7	621	615	618	630	624	626	665	653	660	692	689	691
8	651	618	632	629	622	626	661	655	658	690	687	689
9	695	623	655	626	622	624	668	653	660	688	683	686
10	623	619	620	625	622	623	660	653	656	686	634	677
11	622	619	620	627	623	625	657	653	655	677	658	675
12	623	620	622	629	624	626	657	654	655	674	626	662
13	623	621	622	629	625	626	658	652	655	673	647	666
14	626	621	623	627	624	626	661	653	658	670	655	663
15	624	621	622	630	625	627	662	653	658	683	658	671
16	624	621	623	632	626	629	654	649	651	675	632	656
17	627	622	623	633	626	629	656	649	651	639	634	637
18	624	622	623	634	627	630	672	654	662	635	625	631
19	625	622	623	633	628	631	683	665	672	631	626	629
20	639	624	628	631	627	630	680	668	674	631	625	628
21	628	625	626	635	628	632	686	674	680	627	622	626
22	629	626	627	636	631	633	677	668	673	627	622	624
23	628	624	626	635	631	633	677	666	671	623	620	621
24	628	623	625	635	630	632	692	673	680	621	618	620
25	627	623	625	e640	e624	e632	701	690	697	633	615	626
26	627	624	625	e641	e625	e633	703	695	700	634	628	631
27	628	623	625	e641	e625	e633	702	691	698	633	629	632
28	630	623	625	e641	e626	e634	700	681	694	633	627	631
29	628	622	627	e643	e626	e634	712	684	692	631	626	629
30	629	619	627	e649	619	635	718	684	704	630	624	627
31	---	---	---	651	632	639	715	682	702	---	---	---
MONTH	695	612	624	651	619	629	718	632	668	707	615	656
YEAR	858	334	565									

e Estimated

CHARLES RIVER BASIN

01104430 HOBBS BROOK BELOW CAMBRIDGE RESERVOIR NEAR KENDAL GREEN, MA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.4	18.7	19.2	11.5	11.1	11.3	6.9	6.2	6.5	3.5	3.3	3.4
2	19.0	18.2	18.5	11.5	10.9	11.1	6.4	6.2	6.3	3.7	3.4	3.5
3	18.3	17.0	17.8	10.9	10.3	10.6	6.6	6.3	6.4	3.7	2.9	3.6
4	17.6	17.0	17.3	10.3	9.7	10.0	7.1	6.4	6.7	3.7	3.6	3.6
5	17.4	16.4	16.9	9.9	9.2	9.5	7.2	6.6	6.9	3.9	3.6	3.8
6	17.0	16.1	16.5	9.2	8.8	9.0	7.2	7.1	7.1	4.3	3.9	4.1
7	16.1	15.6	15.8	9.2	8.7	8.8	8.2	7.0	7.5	4.2	4.2	4.2
8	15.9	15.6	15.7	8.8	8.3	8.6	7.8	7.2	7.4	4.2	4.0	4.1
9	15.9	15.5	15.7	8.6	8.0	8.3	7.3	6.9	7.1	4.1	4.0	4.0
10	15.8	15.4	15.5	8.1	7.9	8.0	6.9	6.5	6.7	4.1	3.9	4.0
11	15.8	15.4	15.6	8.1	7.8	7.9	---	---	---	4.1	4.0	4.1
12	15.8	15.4	15.6	8.2	7.7	7.9	---	---	---	4.1	4.1	4.1
13	15.4	15.2	15.3	8.1	7.7	7.9	---	---	---	4.1	4.0	4.0
14	15.2	14.7	15.0	7.8	7.5	7.6	---	---	---	4.0	3.8	3.9
15	14.7	14.5	14.6	8.2	7.6	7.8	---	---	---	3.9	2.7	3.2
16	14.9	14.1	14.4	8.0	7.6	7.8	5.3	3.5	4.2	3.3	2.7	3.1
17	14.3	13.9	14.1	7.8	7.4	7.7	4.3	4.0	4.2	3.6	3.2	3.4
18	14.1	13.8	13.9	7.7	7.3	7.5	4.0	3.1	3.5	3.8	3.6	3.7
19	14.4	14.0	14.2	7.3	7.0	7.1	3.9	3.5	3.7	3.8	3.7	3.8
20	14.3	14.0	14.1	7.5	7.1	7.2	3.7	3.4	3.5	4.2	3.7	3.9
21	14.0	13.6	13.8	7.6	7.1	7.3	3.5	3.2	3.4	4.4	4.0	4.2
22	13.8	13.2	13.5	7.4	6.8	7.1	4.6	3.0	3.7	4.5	4.1	4.3
23	13.2	12.8	13.0	6.9	6.8	6.9	3.6	2.7	3.2	4.3	4.1	4.2
24	12.8	12.6	12.7	7.4	6.7	6.9	3.6	2.7	3.1	4.6	3.9	4.2
25	13.4	12.6	12.9	7.0	6.4	6.7	3.2	2.8	3.1	4.4	3.9	4.2
26	13.6	13.2	13.3	6.8	6.6	6.7	3.1	2.7	2.8	4.2	3.9	4.0
27	13.2	12.8	12.9	6.7	6.3	6.5	3.0	2.7	2.8	4.2	4.0	4.1
28	12.8	12.5	12.7	6.6	6.2	6.3	3.0	2.9	3.0	4.2	4.0	4.2
29	12.7	12.2	12.5	6.4	6.1	6.2	3.0	3.0	3.0	4.3	4.0	4.1
30	12.2	11.7	12.0	6.4	6.2	6.3	3.3	3.0	3.1	4.1	3.8	4.0
31	11.9	11.5	11.7	---	---	---	3.5	3.3	3.4	4.2	3.7	3.9
MONTH	19.4	11.5	14.7	11.5	6.1	7.9	---	---	---	4.6	2.7	3.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.3	3.6	3.9	4.0	3.1	3.4	9.2	7.4	8.2	13.3	12.9	13.0
2	4.5	4.1	4.3	4.1	3.0	3.3	9.1	8.2	8.6	13.8	12.8	13.2
3	5.1	4.5	4.7	4.3	3.0	3.6	9.2	8.4	8.6	14.7	13.4	14.3
4	4.8	4.3	4.5	4.8	3.2	4.0	9.9	8.4	8.9	14.4	13.9	14.1
5	5.1	4.3	4.6	5.0	3.0	3.7	10.2	7.8	8.9	14.1	13.8	13.9
6	4.6	4.2	4.4	4.1	2.5	3.3	10.6	8.3	9.2	14.1	13.9	14.0
7	4.8	4.2	4.4	3.8	1.4	2.5	10.6	8.8	9.5	14.0	13.7	13.9
8	5.0	4.3	4.5	3.2	.9	1.7	10.8	9.1	9.8	14.0	13.7	13.9
9	4.8	4.1	4.5	3.1	.9	1.7	10.5	9.5	10.1	14.1	13.7	13.9
10	5.1	4.5	4.6	3.4	1.4	2.1	11.3	9.9	10.3	14.4	13.7	14.0
11	5.2	4.4	4.7	2.7	1.8	2.1	11.2	9.3	10.1	14.7	13.8	14.1
12	5.5	4.6	5.0	2.4	1.4	1.8	11.2	9.6	10.3	14.5	13.9	14.2
13	5.2	4.5	4.8	3.5	1.6	2.4	11.1	9.8	10.3	15.1	14.1	14.4
14	5.0	4.2	4.5	3.3	2.2	2.7	11.1	9.7	10.3	15.0	14.0	14.5
15	5.0	4.1	4.4	2.5	1.8	2.2	11.5	9.7	10.5	15.2	14.4	14.8
16	5.2	4.3	4.6	3.9	1.6	2.6	11.3	10.7	11.0	15.4	14.3	14.8
17	4.9	4.4	4.6	4.7	2.6	3.4	11.0	10.6	10.8	15.4	14.5	15.0
18	4.6	4.5	4.5	5.4	3.4	4.1	11.2	10.7	10.8	15.5	14.7	15.1
19	4.9	4.4	4.6	5.4	3.8	4.4	11.3	10.7	10.9	15.7	14.9	15.2
20	4.8	4.2	4.4	5.6	3.7	4.5	11.3	10.8	11.0	15.7	14.9	15.2
21	4.9	4.1	4.3	5.4	4.1	4.8	11.3	10.9	11.1	16.3	14.7	15.4
22	4.2	2.8	3.6	6.1	4.7	5.2	11.4	11.1	11.2	16.1	14.8	15.7
23	4.0	2.8	3.2	6.4	4.7	5.3	12.1	11.1	11.5	16.3	15.2	15.8
24	3.6	2.8	3.1	5.7	4.8	5.3	12.6	11.2	11.9	16.5	15.6	15.9
25	3.2	2.9	3.0	7.2	5.3	5.9	12.3	11.5	11.7	16.4	15.5	15.9
26	3.7	2.7	3.0	7.4	5.2	6.3	12.3	11.6	11.8	16.6	15.9	16.2
27	3.8	2.6	3.0	8.0	5.6	6.6	12.7	11.9	12.2	17.0	16.2	16.4
28	3.5	2.6	3.1	6.7	6.5	6.6	12.9	12.1	12.3	17.1	16.1	16.5
29	---	---	---	8.7	6.6	7.4	12.9	12.2	12.5	17.2	16.3	16.8
30	---	---	---	8.7	6.9	7.6	13.3	12.5	12.9	17.3	16.5	16.9
31	---	---	---	8.9	6.7	7.7	---	---	---	17.3	16.4	17.0
MONTH	5.5	2.6	4.2	8.9	.9	4.1	13.3	7.4	10.6	17.3	12.8	15.0

CHARLES RIVER BASIN

01104500 CHARLES RIVER AT WALTHAM, MA

LOCATION.--Lat 42°22'20", long 71°14'03", Middlesex County, Hydrologic Unit 01090001, on right bank 800 ft downstream from Moody Street Bridge in Waltham and 0.3 mi upstream from Beaver Brook.

DRAINAGE AREA.--227 mi², excludes 23.6 mi² drained by Stony Brook, from which flow is diverted for municipal supply of Cambridge.

PERIOD OF RECORD.--Discharge: October 1903 to October 1909 (figures of average weekly discharge, equivalent to records of unadjusted discharge at present site), August 1931 to current year.
Water-quality records: Water years 1953, 1959, 1968-70.

REVISED RECORDS.--WSP 781: 1933(M). WSP 851: Drainage area. WSP 971: 1942.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 20.02 ft above sea level. Prior to July 10, 1904, at dam 700 ft upstream and July 10, 1904, to Oct. 2, 1909, at dam 0.7 mi downstream at different datums; discharge computed from flow over dam and through wheels and gates of Boston Manufacturing Co. and Waltham Bleachery, respectively.

REMARKS.--Records good. Flow affected by diversion to Mother Brook (station 01104000), diversions to and from basin for municipal supplies, and at times by water released from Stony Brook Reservoir. Prior to 1960, some regulation by mills upstream. Low flow completely regulated by Boston Edison Co. powerplant prior to 1954. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--68 years (water years 1932-99), 310 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,150 ft³/s, Feb. 3, 1976, gage height, 6.54 ft, caused by release of water stored behind ice jam upstream; minimum, 0.1 ft³/s, Oct. 1, 12, 1943; minimum daily, 0.2 ft³/s, Oct. 4, 1943.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since 1886, that of Feb. 3, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,080 ft³/s, Feb. 3, gage height, 3.62 ft; minimum, 19 ft³/s, Sept. 6-10; minimum daily, 19 ft³/s, Sept. 6, 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	185	302	266	696	623	606	235	252	63	28	22
2	122	180	298	234	731	565	588	224	152	86	25	22
3	118	179	282	330	1030	602	567	189	156	74	26	22
4	111	168	247	518	996	689	540	182	141	79	28	21
5	105	158	220	489	990	692	517	226	136	82	31	20
6	102	172	208	486	978	708	494	246	126	73	33	19
7	95	176	198	491	966	722	465	259	119	54	33	19
8	109	178	201	473	949	700	438	263	111	61	31	20
9	444	176	218	507	915	683	412	272	100	63	29	20
10	503	174	212	533	861	666	391	262	95	63	26	135
11	738	223	211	496	807	638	376	252	90	57	26	440
12	720	244	208	467	764	616	360	215	87	54	26	330
13	682	252	195	443	744	593	346	165	88	53	23	359
14	681	270	165	387	694	579	337	171	91	50	24	388
15	686	273	144	456	654	589	278	165	86	39	49	408
16	622	263	158	651	622	574	218	158	81	34	41	602
17	574	254	167	603	596	580	280	152	77	32	36	788
18	528	248	175	637	625	588	283	141	73	32	31	608
19	478	241	185	878	651	587	291	151	70	35	28	549
20	426	243	184	834	621	592	298	219	67	45	27	532
21	373	248	185	802	610	593	297	230	65	45	26	507
22	321	247	193	799	595	640	289	270	63	46	26	486
23	282	249	193	808	577	631	298	295	58	137	27	469
24	256	236	188	879	552	630	294	389	43	123	30	423
25	237	228	179	948	533	637	298	444	42	134	31	375
26	225	264	169	916	514	631	300	419	46	112	30	323
27	214	302	158	887	490	619	289	419	51	78	30	247
28	208	308	152	882	501	644	279	420	52	42	29	166
29	203	317	157	850	---	673	264	408	48	39	26	158
30	194	318	229	784	---	633	248	381	37	43	24	173
31	190	---	217	704	---	612	---	341	---	35	23	---
TOTAL	10678	6974	6198	19438	20262	19529	10941	8163	2703	1963	903	8651
MEAN	344	232	200	627	724	630	365	263	90.1	63.3	29.1	288
MAX	738	318	302	948	1030	722	606	444	252	137	49	788
MIN	95	158	144	234	490	565	218	141	37	32	23	19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1999, BY WATER YEAR (WY)

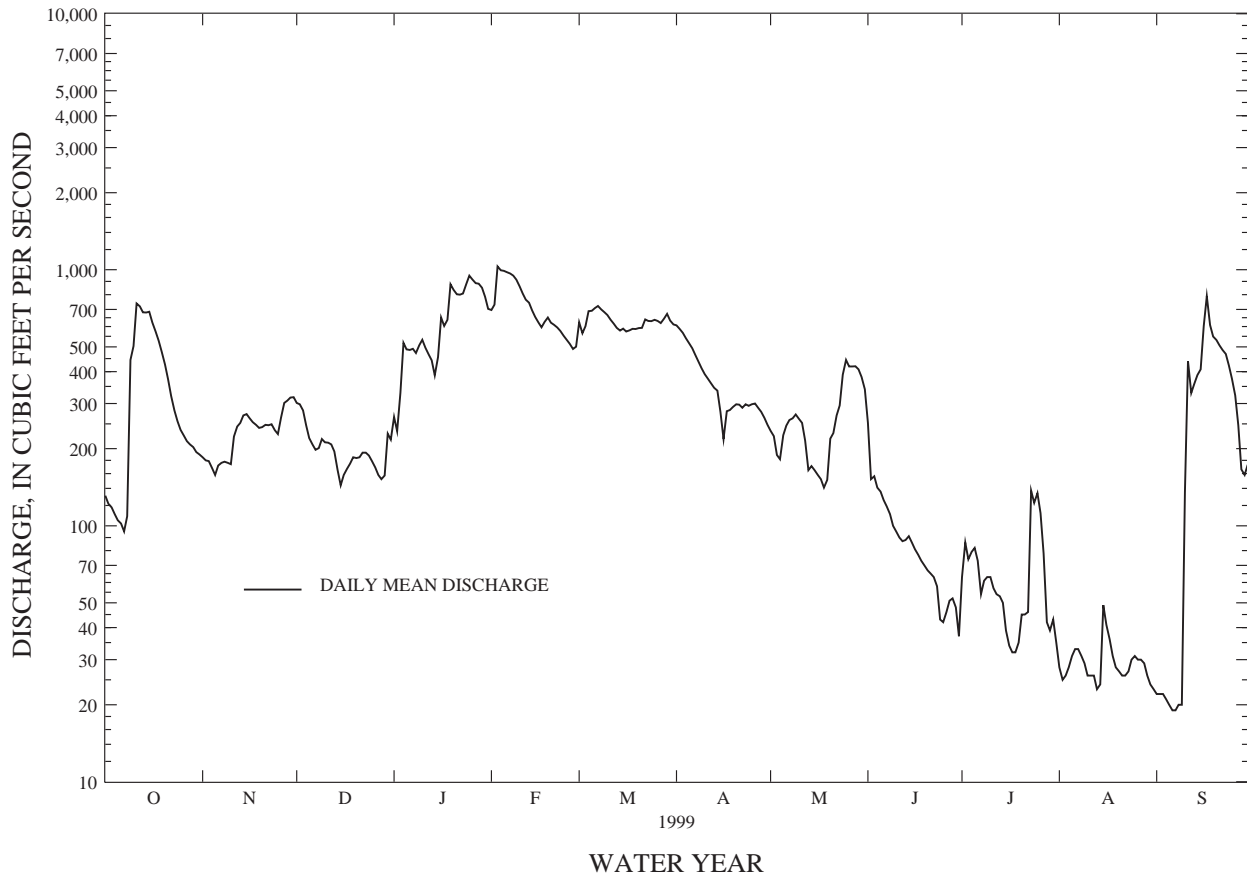
	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942
MEAN	155	253	339	372	414	623	605	364	239	130	117	116
MAX	727	1031	991	1173	946	1398	1446	798	1346	915	873	616
(WY)	1997	1956	1997	1979	1970	1983	1987	1954	1982	1938	1955	1954
MIN	24.5	38.7	62.7	58.4	111	236	181	135	56.5	26.7	14.6	19.6
(WY)	1942	1932	1966	1981	1980	1985	1985	1932	1932	1949	1949	1957

CHARLES RIVER BASIN

01104500 CHARLES RIVER AT WALTHAM, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1931 - 1999	
ANNUAL TOTAL	180030		116403		310	
ANNUAL MEAN	493		319		558	
HIGHEST ANNUAL MEAN					129	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	1930	Jun 14	1030	Feb 3	2940	Jan 26 1979
LOWEST DAILY MEAN	80	Sep 17	19	Sep 6	.20	Oct 4 1943
ANNUAL SEVEN-DAY MINIMUM	105	Sep 15	20	Sep 3	1.6	Sep 30 1943
INSTANTANEOUS PEAK FLOW			1080	Feb 3	4150	Feb 3 1976
INSTANTANEOUS PEAK STAGE			3.62	Feb 3	6.54	Feb 3 1976
INSTANTANEOUS LOW FLOW			19	Sep 6	.10	Oct 1 1943
10 PERCENT EXCEEDS	992		684		681	
50 PERCENT EXCEEDS	383		247		221	
90 PERCENT EXCEEDS	155		32		44	

CHARLES RIVER AT WALTHAM, MA 01104500



CHARLES RIVER BASIN

01104615 CHARLES RIVER ABOVE WATERTOWN DAM AT WATERTOWN, MA
(National Water Quality Assessment Site)

LOCATION.--Lat 42°21'54", long 71°11'26", Middlesex County, Hydrologic Unit 01090001, at footbridge, 1,500 ft NW of intersection at Watertown Street and California Street.

DRAINAGE AREA.--272 mi²

PERIOD OF RECORD.--Water year 1999.

REMARKS.--Only volatile organic compounds measured at or above the non-detection level and pesticide compounds measured at or above the minimum reporting level for one or more samples are listed in the water-quality tables. Volatile organic compounds analyzed by schedule 2020, and pesticide compounds analyzed by schedule 2001, are listed with non-detection values or minimum reporting levels in the section "Explanation of the Records."

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT									
22...	1110	110	243	7.3	9.0	12.0	9.2	13	46
NOV									
05...	1140	135	297	7.5	10.1	8.0	10.2	16	62
20...	0910	250	310	7.2	13.5	6.5	10.2	15	62
DEC									
02...	0820	300	284	7.5	9.9	5.5	11.1	14	57
28...	0900	210	320	7.4	5.5	1.1	12.9	16	62
JAN									
14...	1120	410	420	6.9	-9.7	.1	13.5	13	99
28...	1100	1000	265	7.3	1.5	2.0	13.3	9.7	58
FEB									
09...	0830	600	241	6.8	.6	.3	14.0	8.7	51
23...	0915	640	254	6.7	-5.0	.1	14.2	11	55
MAR									
01...	0920	800	387	7.2	8.6	4.0	11.6	11	92
18...	1245	700	427	7.1	22.1	6.2	12.6	13	110
APR									
13...	1115	355	313	7.6	9.0	10.2	11.1	13	68
27...	1000	255	319	7.3	14.1	13.0	10.4	15	70
MAY									
04...	1010	150	328	7.2	13.2	14.3	8.0	15	73
14...	1400	172	325	--	22.7	20.0	8.9	--	--
18...	0910	130	346	7.4	18.9	18.7	5.5	15	72
JUN									
01...	0945	270	271	7.0	25.1	22.5	8.2	12	56
15...	0930	80	340	7.4	22.2	23.9	5.0	16	73
29...	1500	--	--	--	--	--	--	--	--
JUL									
02...	1000	105	370	7.4	23.8	24.2	4.7	17	81
07...	0930	60	365	7.4	25.5	27.0	3.0	16	77
21...	0750	58	390	7.0	20.1	24.2	2.2	17	84
AUG									
02...	0830	30	397	7.5	23.8	26.4	2.2	18	86
25...	0845	34	450	7.4	22.1	21.6	2.6	19	97
SEP									
18...	0830	710	260	7.0	16.1	17.5	8.0	13	46
20...	0830	555	276	7.2	15.2	17.5	8.2	14	51

CHARLES RIVER BASIN

01104615 CHARLES RIVER ABOVE WATERTOWN DAM AT WATERTOWN, MA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SILICA, DIS-SOLVED AS SIO2) (00955)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT											
22...	<0.10	470	2.9	123	2.7	163	9.0	27	12	0.135	0.76
NOV											
05...	<.10	320	3.7	94	3.0	188	9.8	36	13	.140	.54
20...	<.10	160	3.4	62	3.0	181	8.3	34	14	.076	.35
DEC											
02...	<.10	240	3.1	52	3.0	171	7.7	32	12	.027	.46
28...	<.10	200	3.8	66	3.1	179	9.2	36	15	.304	.70
JAN											
14...	<.10	190	3.2	88	3.0	239	8.5	60	12	.287	.62
28...	<.10	150	2.4	79	2.0	152	7.2	35	11	.157	.48
FEB											
09...	<.10	120	2.1	46	1.3	140	6.5	29	10	.099	.34
23...	<.10	140	2.6	51	1.8	153	7.0	31	12	.129	.36
MAR											
01...	<.10	130	2.7	65	1.9	211	5.9	51	12	.181	.36
18...	<.10	140	3.1	60	2.0	241	5.1	62	12	.061	.29
APR											
13...	<.10	230	3.1	82	2.2	182	4.0	41	12	.033	.54
27...	<.10	530	3.5	119	2.4	185	3.6	41	13	.026	.32
MAY											
04...	<.10	260	3.6	67	2.6	177	2.3	41	12	.080	.49
14...	--	--	--	--	--	--	--	--	--	--	--
18...	<.10	230	3.6	80	2.6	194	1.8	40	13	.129	.51
JUN											
01...	<.10	430	2.7	140	2.2	169	5.9	31	9.6	.239	.74
15...	.15	320	3.5	143	2.2	209	2.5	39	11	.056	.52
29...	--	--	--	--	--	--	--	--	12	--	--
JUL											
02...	.20	250	3.8	198	3.1	236	2.8	43	12	.136	.64
07...	<.10	170	3.6	184	3.2	232	3.2	43	11	.028	.51
21...	.11	89	3.8	135	3.3	225	2.1	44	12	.045	.63
AUG											
02...	.13	190	4.1	211	.68	221	2.2	47	14	.049	.41
25...	.12	120	4.4	177	4.2	242	1.7	54	13	.140	.54
SEP											
18...	<.10	230	2.7	87	3.4	156	5.5	26	23	.117	.59
20...	<.10	290	3.0	124	3.3	173	6.4	28	24	.123	.69

CHARLES RIVER BASIN

01104615 CHARLES RIVER ABOVE WATERTOWN DAM AT WATERTOWN, MA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)
OCT											
22...	0.81	0.015	0.035	0.073	0.023	12	0.40	--	--	--	--
NOV											
05...	.68	.027	.029	.049	.019	6.9	.30	--	--	--	--
20...	.62	.017	.023	.031	.018	6.0	.50	--	--	--	--
DEC											
02...	.46	.013	.024	.044	.016	6.3	1.0	--	--	--	--
28...	.73	.029	E.036	.063	.043	5.1	.60	--	--	--	--
JAN											
14...	.76	.017	.042	.072	.035	6.5	.30	--	--	--	--
28...	.48	.013	.019	.037	.012	5.7	.50	--	--	--	--
FEB											
09...	.40	<.010	.014	.030	.020	5.4	.20	--	--	--	--
23...	.49	<.010	.012	.032	.010	4.6	.20	--	--	--	--
MAR											
01...	.53	.010	.011	.042	.011	5.0	.30	--	--	--	--
18...	.42	<.010	.011	.031	<.010	4.5	.20	--	--	--	--
APR											
13...	.54	.014	.018	.050	.012	5.4	--	--	--	--	--
27...	.71	.011	.013	.014	.017	5.4	1.0	--	--	--	--
MAY											
04...	.67	.010	.015	.051	.016	6.2	.70	0.005	<0.0030	<0.0040	0.0098
14...	--	--	--	--	--	--	--	--	--	--	--
18...	.82	.013	.020	.074	.017	6.3	1.1	<.001	<.0030	<.0040	E.0021
JUN											
01...	1.0	.036	.061	.116	.050	9.3	.60	.004	E.0047	.0076	E.0009
15...	.76	.013	.030	.094	.015	8.4	--	<.001	E.0381	<.0040	<.0020
29...	--	--	--	--	--	--	--	--	--	--	--
JUL											
02...	.89	.024	.052	.116	.041	6.7	>4.0	.009	E.0977	<.0040	<.0020
07...	.76	.022	.038	.088	.020	6.7	.80	<.074	--	--	--
21...	.94	.014	.033	.107	.015	6.1	.50	.006	E.0122	<.0040	<.0020
AUG											
02...	.54	<.010	.028	.078	.018	5.3	.20	<.008	<.0030	<.0040	<.0020
25...	.64	<.010	.046	.069	.026	5.2	.30	.010	<.0030	<.0040	<.0020
SEP											
18...	.78	.012	.046	.105	.029	8.7	1.1	--	--	--	--
20...	.81	.011	.049	.099	.029	10	1.1	<.001	E.0050	<.0040	<.0020

CHARLES RIVER BASIN

01104615 CHARLES RIVER ABOVE WATERTOWN DAM AT WATERTOWN, MA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	CHLORO-FORM TOTAL (UG/L) (32106)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	VINYL-CHLORIDE TOTAL (UG/L) (39175)	CIS-1,2-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	METHYL-TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	ETHER-TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	SEDI-MENT, SUS-PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT											
22...	--	E0.024	E0.100	E0.100	1.91	E0.043	0.538	E0.480	E0.052	9	86
NOV											
05...	--	<.064	E.180	E.160	1.55	<.220	.627	E.420	<.220	4	50
20...	--	E.022	E.150	E.110	1.21	<.220	.432	<.340	<.220	5	55
DEC											
02...	--	E.028	E.110	E.110	1.41	E.041	.407	E.480	<.220	2	80
28...	--	E.036	E.150	E.160	.439	<.220	.447	E.460	<.220	4	75
JAN											
14...	--	E.027	E.085	.102	.421	E.038	.273	.488	E.042	5	63
28...	--	E.046	E.054	E.059	1.15	<.110	.175	.438	E.043	4	64
FEB											
09...	--	E.024	E.062	E.056	.181	<.110	.112	.511	E.041	3	54
23...	--	E.034	E.074	.112	1.16	E.031	.343	.374	E.039	2	89
MAR											
01...	--	E.083	E.075	E.098	.777	E.026	.261	.438	E.049	7	82
18...	--	E.035	E.091	.114	1.15	E.033	.340	.449	E.046	3	90
APR											
13...	--	--	--	--	--	--	--	--	--	5	81
27...	--	E.035	E.075	.183	2.04	E.063	.631	.600	E.055	6	84
MAY											
04...	0.015	--	--	--	--	--	--	--	--	7	78
14...	--	E.039	E.098	.261	3.73	E.092	1.13	1.11	E.072	--	--
18...	<.002	--	--	--	--	--	--	--	--	9	50
JUN											
01...	.013	--	--	--	--	--	--	--	--	12	87
15...	.005	E.048	E.092	.400	11.3	.171	2.22	1.19	.187	11	88
29...	--	--	--	--	--	--	--	--	--	--	--
JUL											
02...	.036	--	--	--	--	--	--	--	--	13	92
07...	--	E.047	.181	.285	2.54	.194	1.28	1.27	.321	5	63
21...	.014	--	--	--	--	--	--	--	--	3	82
AUG											
02...	.016	E.072	.428	.653	17.3	.345	4.59	1.91	.147	2	71
25...	.017	--	--	--	--	--	--	--	--	1	75
SEP											
18...	--	--	--	--	--	--	--	--	--	11	87
20...	.032	<.064	<.104	E.053	.894	<.220	.264	.538	<.220	10	84

E Estimated

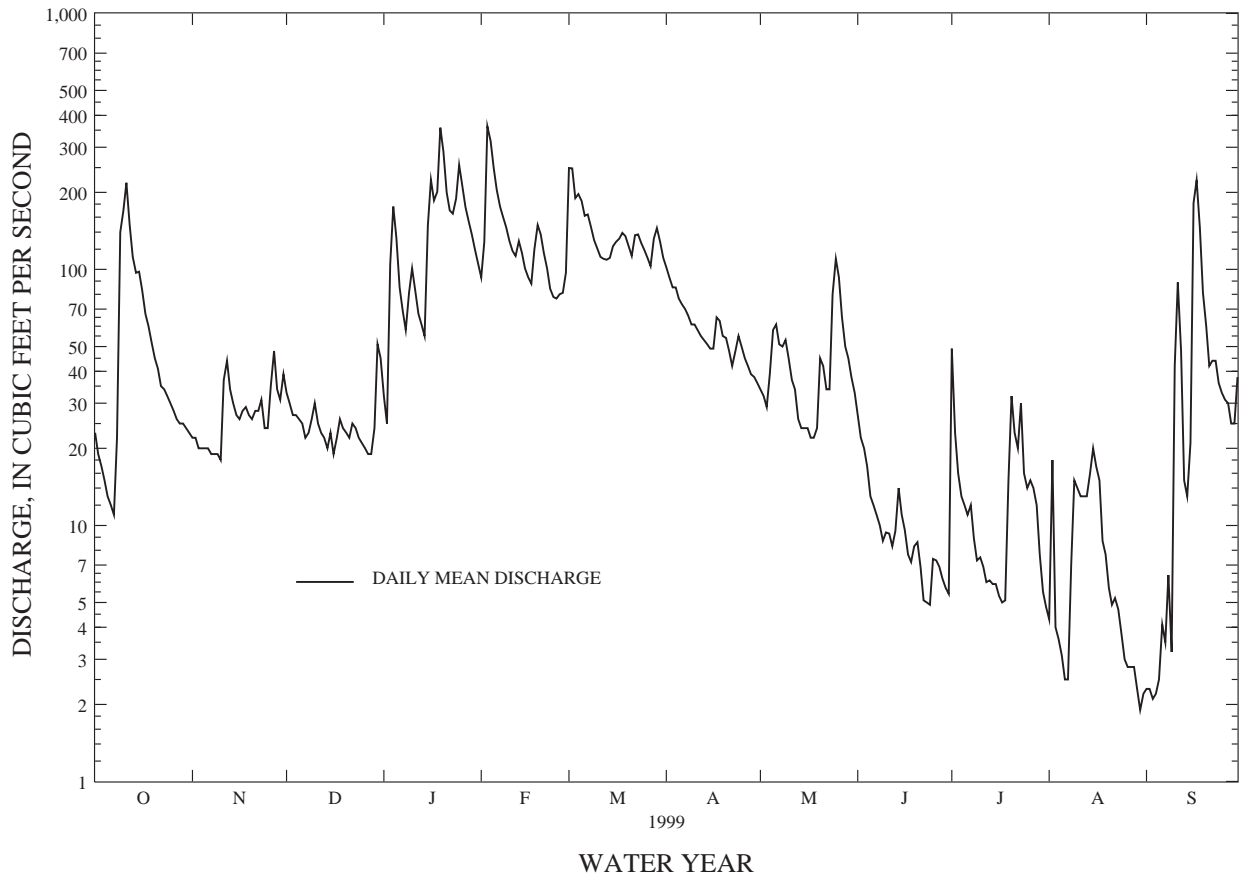
NEPONSET RIVER BASIN

01105000 NEPONSET RIVER AT NORWOOD, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1940 - 1999	
ANNUAL TOTAL	34660		21384.5		56.1	
ANNUAL MEAN	95.0		58.6		21.7	
HIGHEST ANNUAL MEAN					106	1984
LOWEST ANNUAL MEAN					21.7	1966
HIGHEST DAILY MEAN	978	Jun 14	362	Feb 3	1260	Aug 20 1955
LOWEST DAILY MEAN	11	Oct 7	1.9	Aug 30	1.4	Oct 20 1963
ANNUAL SEVEN-DAY MINIMUM	15	Sep 15	2.2	Aug 29	2.2	Aug 29 1999
INSTANTANEOUS PEAK FLOW			468	Jan 18	1490	Aug 19 1955
INSTANTANEOUS PEAK STAGE			8.37	Jan 18	14.65	Aug 19 1955
INSTANTANEOUS LOW FLOW			1.9	Aug 29		
10 PERCENT EXCEEDS	207		145		125	
50 PERCENT EXCEEDS	61		32		37	
90 PERCENT EXCEEDS	19		5.8		8.8	

e Estimated

NEPONSET RIVER AT NORWOOD, MA 01105000



NEPONSET RIVER BASIN

01105000 NEPONSET RIVER AT NORWOOD, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958-59, 1966-68, 1999.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT									
21...	0930	41	186	7.6	10.3	11.8	9.8	9.6	33
NOV									
24...	0810	24	222	7.5	12.6	6.5	11.2	11	44
DEC									
10...	1000	33	212	7.2	5.5	5.8	11.7	9.7	41
JAN									
20...	1410	276	186	7.2	7.8	1.9	13.8	6.3	42
FEB									
10...	1245	131	178	7.0	11.5	2.5	14.8	7.3	35
MAR									
03...	1100	186	180	7.0	14.9	2.9	13.2	7.0	38
APR									
14...	1200	51	235	7.3	15.2	11.5	11.5	10	49
MAY									
03...	1110	29	243	7.3	13.9	14.2	9.3	11	51
JUN									
08...	1100	9.4	240	7.5	32.3	24.1	6.8	11	50
JUL									
08...	0830	10	267	7.3	23.2	23.3	6.6	12	53
AUG									
10...	0845	14	297	7.6	16.9	20.0	7.3	14	64
SEP									
09...	0900	4.4	284	7.1	23.5	23.9	6.7	13	60
11...	1345	73	205	7.0	25.5	23.5	7.4	10	40
17...	0745	206	176	7.1	15.3	19.4	8.3	9.3	33

NEPONSET RIVER BASIN

01105000 NEPONSET RIVER AT NORWOOD, MA--Continued

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT										
21...	<0.10	430	2.7	64	2.1	132	9.4	21	7.8	0.040
NOV										
24...	<.10	330	3.1	100	2.2	138	9.2	26	9.4	.067
DEC										
10...	<.10	330	3.0	89	2.1	137	8.5	22	9.5	.051
JAN										
20...	<.10	160	1.8	115	1.5	111	5.7	24	8.0	.071
FEB										
10...	<.10	150	2.1	54	1.1	110	7.1	21	10	.032
MAR										
03...	<.10	120	1.9	51	1.5	110	5.4	23	7.7	<.020
APR										
14...	<.10	200	2.8	85	1.8	143	3.4	30	9.1	<.020
MAY										
03...	<.10	260	3.1	109	1.7	125	3.1	29	8.8	.050
JUN										
08...	<.10	700	2.9	104	1.6	165	5.1	26	7.9	.100
JUL										
08...	<.10	160	3.3	157	2.1	188	4.6	30	9.8	.052
AUG										
10...	<.10	470	4.0	133	2.0	171	6.5	35	7.8	.021
SEP										
09...	<.10	190	3.7	144	2.2	164	4.9	33	8.1	.050
11...	<.10	280	3.0	241	1.6	117	4.4	23	10	.023
17...	<.10	240	2.5	106	2.0	112	5.2	21	13	.033

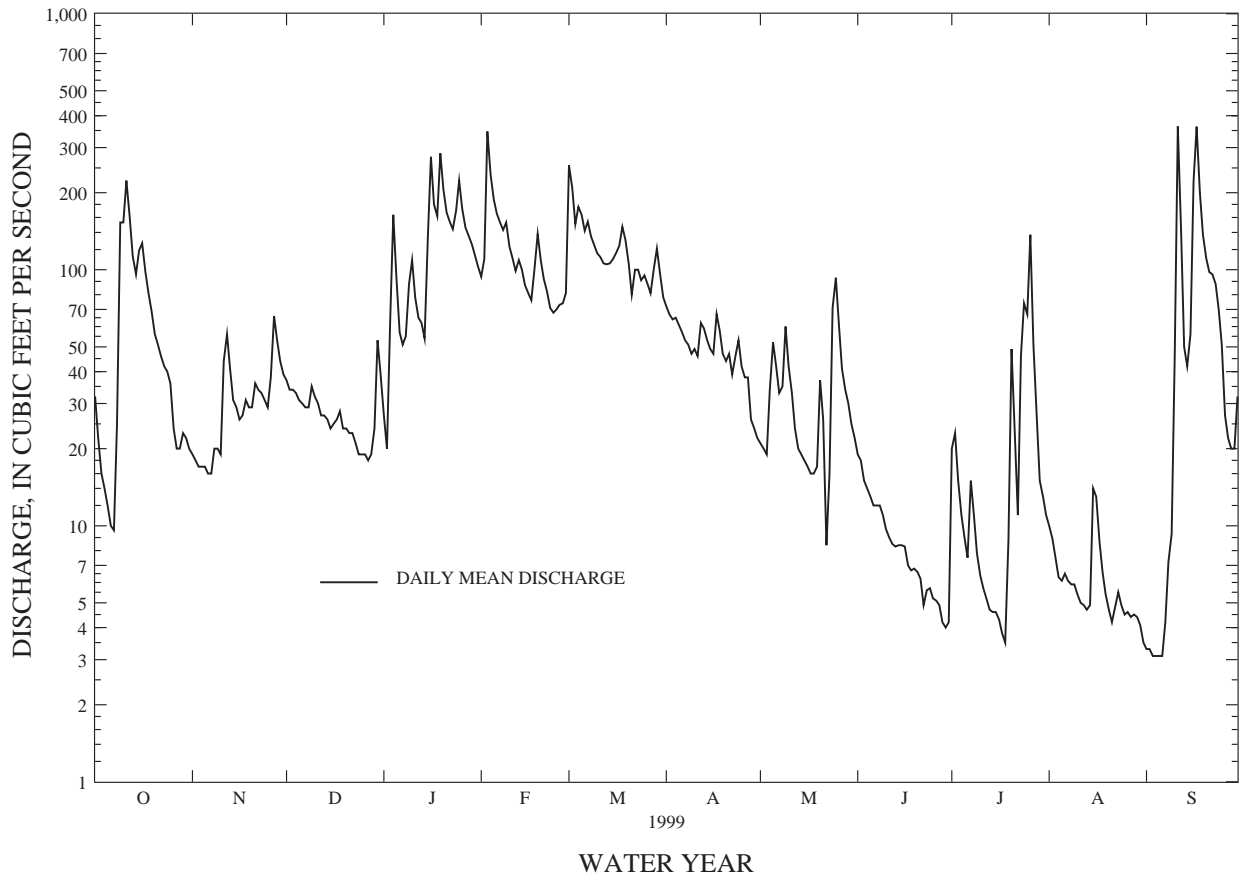
DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)	SED. SUSP. SEDI- MENT, SUS- PENDED (MG/L) (80154)	SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
21...	0.55	0.52	0.010	0.013	0.040	<0.010	12	0.20	7	63
NOV										
24...	.35	.40	<.010	.017	.043	.013	6.8	.30	8	34
DEC										
10...	.31	.30	<.010	<.050	.029	.014	7.4	.20	4	67
JAN										
20...	.26	.34	<.010	.013	.030	.014	5.5	.30	4	71
FEB										
10...	.22	.27	<.010	.007	.014	<.010	4.8	<.20	2	86
MAR										
03...	.20	.27	.021	.004	.018	<.010	4.7	.20	3	80
APR										
14...	.25	.40	<.010	.006	.022	.014	5.1	.30	2	71
MAY										
03...	.34	.41	<.010	.010	.018	.018	5.6	.30	4	69
JUN										
08...	.42	.42	.011	.022	.038	.018	6.8	.40	8	66
JUL										
08...	.49	.48	<.010	.016	.019	.023	5.4	.40	6	75
AUG										
10...	.25	.54	<.010	.018	.045	<.010	5.9	1.0	5	88
SEP										
09...	.37	.52	<.010	.012	.037	<.010	5.5	.50	9	80
11...	.38	.62	<.010	.015	.109	<.010	5.0	1.1	9	79
17...	.40	.57	<.010	.021	.066	.011	7.0	.90	18	83

NEPONSET RIVER BASIN

01105500 EAST BRANCH NEPONSET RIVER AT CANTON, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1953 - 1999	
ANNUAL TOTAL	30812.9		20704.2			
ANNUAL MEAN	84.4		56.7		51.7	
HIGHEST ANNUAL MEAN					79.4 1998	
LOWEST ANNUAL MEAN					18.6 1966	
HIGHEST DAILY MEAN	885	Jun 14	363	Sep 11	1360	Aug 19 1955
LOWEST DAILY MEAN	5.7	Aug 11	3.1	Sep 3	.60	Jul 7 1957
ANNUAL SEVEN-DAY MINIMUM	13	Sep 15	3.2	Aug 31	2.5	Sep 7 1993
INSTANTANEOUS PEAK FLOW			456	Sep 11	1790	Aug 19 1955
INSTANTANEOUS PEAK STAGE			3.93	Sep 11	8.18	Aug 19 1955
INSTANTANEOUS LOW FLOW			3.1	Sep 3		
10 PERCENT EXCEEDS	192		142		111	
50 PERCENT EXCEEDS	50		33		37	
90 PERCENT EXCEEDS	17		5.3		7.9	

EAST BRANCH NEPONSET RIVER AT CANTON, MA 01105500



NEPONSET RIVER BASIN

011055566 NEPONSET RIVER AT MILTON VILLAGE, MA

LOCATION.--Lat 42°16'15", long 71°04'08", Norfolk County, Hydrologic Unit 01090001, 100 ft upstream from bridge on Adams Street, at Milton Village.

DRAINAGE AREA.--101 mi².

PERIOD OF RECORD.--November 1996 to current year.

GAGE.--Water stage recorder. Elevation of gage is 20 ft below sea level, from topographic map.

REMARKS.--Records good except those below 40 ft³/s, which are fair, and those for estimated daily discharges, which are poor. Record on most days is adjusted for tidal backwater, which lasts as much as 4 hours during times of high tide. Flow regulated by mills and reservoirs upstream. Flow affected by diversion from Charles River basin to Neponset River basin by Mother Brook (station 01104000) through Dedham and Hyde Park and by diversions to and from basin for municipal supplies. Telephone and satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--2 years (water year 1998-99), 337 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,720 ft³/s, June 18, 1998, gage height, 36.93 ft; minimum, 4.8 ft³/s, Oct. 24, 1997, minimum daily, 10 ft³/s, Oct. 23, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,290 ft³/s, Sept. 16, gage height, 35.01 ft; maximum gage height, 35.30 ft (tidal surge), Sept. 11, minimum discharge, 7.2 ft³/s, Sept. 1, 2, 3, 4, minimum daily, 12 ft³/s, Sept. 1, 3, 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	80	113	108	576	629	423	94	79	e99	32	12
2	79	72	99	e99	e575	779	385	89	86	98	e22	e13
3	63	73	95	e128	e970	813	347	e77	83	65	33	e12
4	54	67	91	446	1030	884	323	e147	67	51	21	e12
5	44	70	91	455	1060	894	286	e207	63	44	26	15
6	44	70	87	412	1040	872	262	218	55	e30	20	e18
7	38	67	79	339	1020	882	237	191	45	63	21	e24
8	55	67	86	e254	967	825	218	178	47	44	21	e30
9	e276	64	96	285	885	767	198	202	33	26	18	e22
10	e452	64	92	379	806	707	184	182	35	31	28	e42
11	e715	111	90	344	723	659	173	153	39	29	20	e348
12	705	153	82	289	649	618	153	120	38	19	31	412
13	640	135	78	256	616	579	164	116	37	26	24	329
14	e590	116	73	203	563	554	152	99	39	21	29	217
15	572	102	71	391	500	560	146	91	36	29	e66	178
16	514	88	72	593	432	575	165	84	34	28	e36	621
17	452	91	74	667	389	575	239	72	33	25	41	864
18	386	99	89	e715	e424	585	244	72	25	22	30	819
19	299	93	81	998	513	592	220	68	29	e20	31	742
20	241	91	77	995	509	573	187	134	30	e199	20	671
21	185	103	72	961	484	538	184	134	21	65	21	593
22	159	100	78	911	443	534	159	115	26	52	27	496
23	134	92	77	861	380	555	167	99	21	88	18	406
24	127	93	70	e859	327	538	192	e213	38	126	22	327
25	119	83	68	948	303	526	179	375	31	109	16	243
26	103	102	65	948	299	502	150	340	28	117	17	182
27	96	165	63	927	297	467	143	289	27	137	e15	127
28	86	149	59	881	325	492	124	216	21	74	19	119
29	92	128	71	822	---	539	111	178	25	54	19	101
30	84	110	158	740	---	537	100	142	17	34	e13	e134
31	82	---	139	660	---	482	---	110	---	35	14	---
TOTAL	7555	2898	2636	17874	17105	19632	6215	4805	1188	1860	771	8129
MEAN	244	96.6	85.0	577	611	633	207	155	39.6	60.0	24.9	271
MAX	715	165	158	998	1060	894	423	375	86	199	66	864
MIN	38	64	59	99	297	467	100	68	17	19	13	12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 1999, BY WATER YEAR (WY)

	1997	1998	1999	1997	1998	1999	1997	1998	1999	1997	1998	1999
MEAN	132	165	348	474	543	661	568	419	391	177	70.8	121
MAX	244	274	860	577	611	849	1002	783	1046	443	161	271
(WY)	1999	1997	1997	1999	1999	1998	1997	1998	1998	1998	1998	1999
MIN	20.9	96.6	85.0	420	410	501	207	155	39.6	29.2	24.9	19.3
(WY)	1998	1999	1999	1997	1997	1997	1999	1999	1999	1997	1999	1997

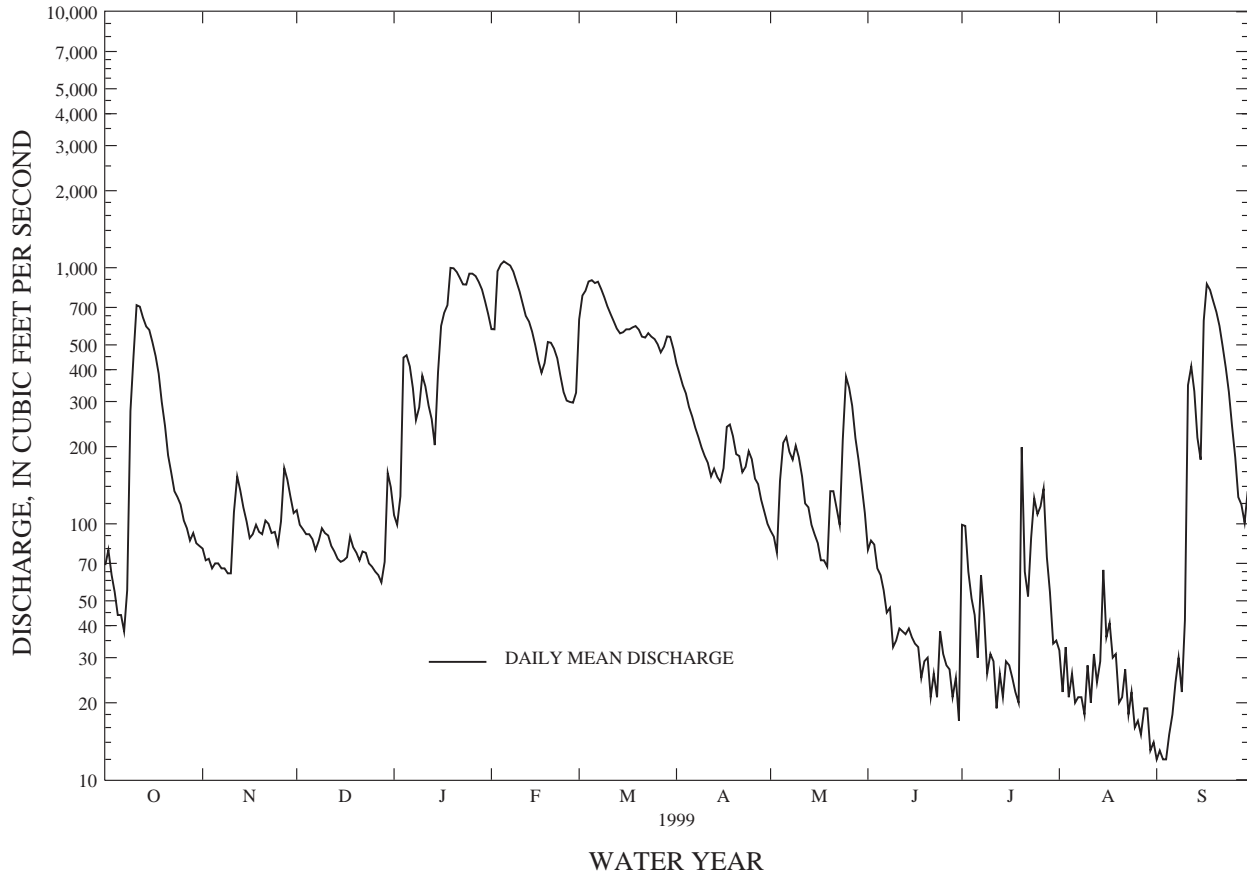
NEPONSET RIVER BASIN

011055566 NEPONSET RIVER AT MILTON VILLAGE, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1997 - 1999	
ANNUAL TOTAL	161022		90668			
ANNUAL MEAN	441		248		337	
HIGHEST ANNUAL MEAN					426	
LOWEST ANNUAL MEAN					248	
HIGHEST DAILY MEAN	2510	Jun 19	1060	Feb 5	2510	Jun 19 1998
LOWEST DAILY MEAN	38	Oct 7	12	Sep 1	10	Oct 23 1997
ANNUAL SEVEN-DAY MINIMUM	52	Sep 15	13	Aug 30	12	Oct 18 1997
INSTANTANEOUS PEAK FLOW			1290	Sep 16	2720	Jun 18 1998
INSTANTANEOUS PEAK STAGE			35.01	Sep 16	36.93	Jun 18 1998
INSTANTANEOUS LOW FLOW			7.2	Sep 1	4.8	Oct 24 1997
10 PERCENT EXCEEDS	1050		685		886	
50 PERCENT EXCEEDS	252		116		192	
90 PERCENT EXCEEDS	70		25		25	

e Estimated

NEPONSET RIVER AT MILTON VILLAGE, MA 011055566



WEYMOUTH FORE RIVER BASIN

01105583 MONATIQUOT RIVER AT EAST BRAINTREE, MA

LOCATION.--Lat 42°13'15", long 70°58'43", Norfolk County, Hydrologic Unit 01090001, at Commercial Street, 0.2 mi upstream from mouth, 0.3 mi south of East Braintree.

DRAINAGE AREA.--Not determined.

PERIOD of RECORD.--Water Years 1999.

REMARKS.--Discharge obtained by discharge measurements on the day of sampling. Instantaneous records are based on composite samples and are representative of the cross section.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED SATUR-ATION (PER-CENT) (00301)	COLI-FORM, FECAL, UM-MF (COLS./100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL /100 ML) (31633)
JUN											
23...	1323	0.55	782	7.5	24.5	23.5	760	8.3	98	--	--
JUL											
23...	1345	5.7	504	7.4	28.0	25.0	755	7.7	94	4,800	3,400
AUG											
24...	1030	.81	588	7.0	25.0	20.0	761	9.1	100	140	120

DATE	FECAL COLI-FORM 24-HR MEM.FIL (COLS./100 ML) (31613)	E. COLI WTR FLT MF 0.7U NUT AG-AR+MUG 4HR35D COL/100 (50278)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
JUN										
23...	1,200	900	0.016	0.667	0.039	0.34	0.36	0.037	0.014	0.010
JUL										
23...	--	--	.040	.575	.315	1.4	1.0	.025	<.010	.021
AUG										
24...	--	--	<.010	.606	.023	.26	.26	.009	<.010	.005



Town Brook at Quincy, Massachusetts gaging station. (photo by J. L. Zanca)

WEYMOUTH FORE RIVER BASIN

01105584 TOWN BROOK AT DIVERSION TUNNEL AT QUINCY, MA

LOCATION.--Lat 42°14'40", long 71°00'16", Norfolk County, Hydrologic Unit 01090001, on left bank at spillway into Burgin Brook and diversion tunnel, 100 ft west of Burgin Parkway, and 0.5 mi south of Quincy.

DRAINAGE AREA.--About 2.0 mi² (partially culverted).

PERIOD OF RECORD.--Gage height: February to September 1999.

GAGE.--Water-stage recorder. Elevation of gage is 14.90 ft above National Geodetic Vertical Datum (NGVD) of 1929. Elevation of spillway into diversion tunnel is 18.0 ft above NGVD. Elevation data provided by U.S. Army Corps of Engineers.

REMARKS.--Records not rated.

EXTREMES FOR PERIOD FEBRUARY TO SEPTEMBER 1999.--Maximum gage height, 18.70 ft above NGVD, July 1, but may have been greater during periods of no gage height record; minimum gage height, 16.30 ft, Aug. 4, but may have been less during periods of no gage height record.

WATER LEVEL, IN FEET ABOVE NGVD OF 1929, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	18.01	17.88	17.91	17.10	17.10	17.10	16.61	16.60	16.61
2	---	---	---	17.88	17.86	17.87	17.10	16.80	16.91	16.61	16.60	16.60
3	---	---	---	18.20	17.85	17.90	16.80	16.80	16.80	17.59	16.60	16.72
4	---	---	---	18.20	17.01	17.18	16.80	16.80	16.80	17.68	16.86	17.02
5	---	---	---	17.02	16.92	16.95	16.80	16.80	16.80	17.42	16.83	16.95
6	---	---	---	17.59	16.92	17.08	16.80	16.80	16.80	16.85	16.72	16.77
7	---	---	---	17.11	17.00	17.04	16.80	16.80	16.80	16.75	16.69	16.71
8	---	---	---	17.06	16.98	17.02	16.80	16.78	16.80	18.43	16.66	16.88
9	---	---	---	---	---	---	16.86	16.77	16.80	17.10	16.86	16.97
10	---	---	---	16.87	16.80	16.82	16.81	16.77	16.78	16.86	16.70	16.77
11	---	---	---	16.82	16.81	16.81	16.77	16.76	16.77	16.73	16.67	16.69
12	---	---	---	16.92	16.82	16.85	16.77	16.75	16.76	16.68	16.65	16.66
13	---	---	---	16.83	16.82	16.83	16.76	16.74	16.75	16.65	16.63	16.64
14	---	---	---	16.84	16.83	16.84	16.74	16.73	16.74	16.65	16.63	16.64
15	---	---	---	17.15	16.84	16.95	16.73	16.72	16.73	16.63	16.62	16.62
16	---	---	---	17.06	16.85	16.94	17.58	16.71	16.80	16.63	16.61	16.62
17	---	---	---	16.97	16.86	16.93	17.25	16.74	16.82	16.62	16.60	16.61
18	---	---	---	16.88	16.87	16.87	16.74	16.72	16.73	16.61	16.59	16.60
19	---	---	---	16.89	16.88	16.88	16.98	16.72	16.84	16.79	16.60	16.65
20	---	---	---	16.90	16.89	16.89	17.06	16.91	16.96	17.46	16.63	16.83
21	---	---	---	16.91	16.90	16.90	---	---	---	16.72	16.64	16.67
22	---	---	---	17.71	16.91	17.07	---	---	---	16.65	16.60	16.62
23	---	---	---	17.00	17.00	17.00	17.20	16.80	16.89	18.24	16.59	16.66
24	---	---	---	17.30	17.00	17.05	16.82	16.70	16.75	18.17	16.93	17.23
25	---	---	---	17.10	17.00	17.06	16.70	16.66	16.68	17.20	16.88	17.03
26	---	---	---	17.10	17.00	17.00	16.66	16.64	16.65	16.88	16.73	16.79
27	17.82	17.57	17.65	17.00	17.00	17.00	16.65	16.63	16.64	16.73	16.67	16.69
28	18.26	17.55	17.83	18.00	17.00	17.34	16.64	16.63	16.63	16.67	16.63	16.65
29	---	---	---	17.20	17.10	17.15	16.63	16.62	16.62	16.64	16.61	16.62
30	---	---	---	17.10	17.10	17.10	16.62	16.61	16.61	16.62	16.59	16.61
31	---	---	---	17.10	17.10	17.10	---	---	---	16.60	16.57	16.58
MONTH	---	---	---	---	---	---	---	---	---	18.43	16.57	16.73

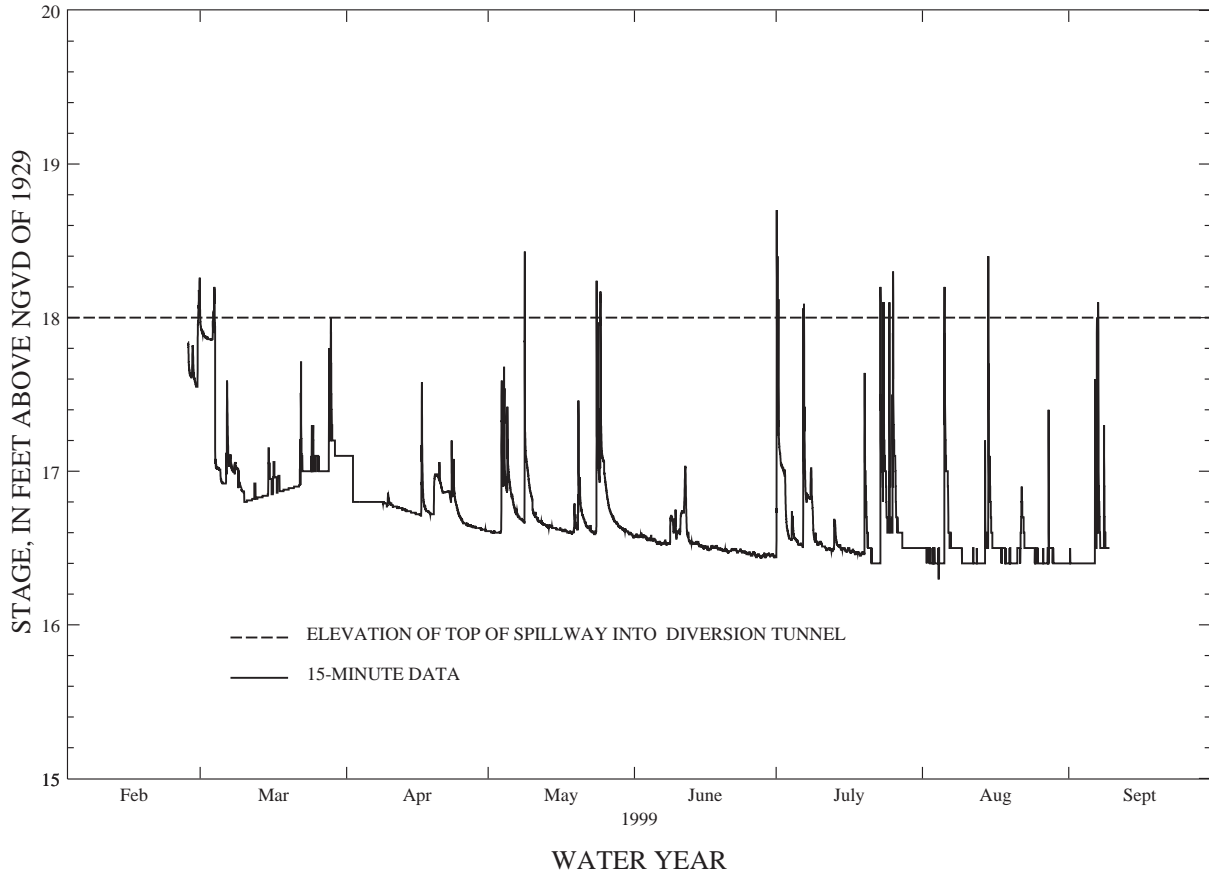
WEYMOUTH FORE RIVER BASIN

01105584 TOWN BROOK AT DIVERSION TUNNEL AT QUINCY, MA--Continued

WATER LEVEL, IN FEET ABOVE NGVD OF 1929, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	JUNE			JULY			AUGUST			SEPTEMBER		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.59	16.57	16.58	18.70	16.44	17.30	16.50	16.40	16.50	16.50	16.40	16.40			
2	16.60	16.57	16.58	17.05	16.80	17.00	16.50	16.40	16.45	16.40	16.40	16.40			
3	16.58	16.55	16.57	16.80	16.56	16.62	16.50	16.40	16.43	16.40	16.40	16.40			
4	16.58	16.55	16.56	16.74	16.55	16.60	16.50	16.30	16.41	16.40	16.40	16.40			
5	16.56	16.52	16.54	16.56	16.52	16.54	18.20	16.40	16.75	16.40	16.40	16.40			
6	16.54	16.52	16.53	18.09	16.50	16.74	17.10	16.50	16.75	18.00	16.40	16.58			
7	16.55	16.52	16.53	17.42	16.80	16.88	16.60	16.50	16.50	18.10	16.50	16.72			
8	16.71	16.52	16.60	17.02	16.58	16.81	16.50	16.50	16.50	17.30	16.50	16.58			
9	16.75	16.56	16.64	16.60	16.52	16.54	16.50	16.40	16.44	---	---	---			
10	16.73	16.59	16.64	16.54	16.51	16.53	16.40	16.40	16.40	---	---	---			
11	17.03	16.70	16.81	16.51	16.48	16.50	16.50	16.40	16.41	---	---	---			
12	16.70	16.53	16.57	16.50	16.48	16.49	16.50	16.40	16.40	---	---	---			
13	16.54	16.52	16.53	16.69	16.49	16.56	16.40	16.40	16.40	---	---	---			
14	16.54	16.51	16.53	16.52	16.49	16.51	18.40	16.40	16.61	---	---	---			
15	16.52	16.49	16.51	16.50	16.47	16.49	17.60	16.50	16.74	---	---	---			
16	16.51	16.48	16.50	16.50	16.47	16.48	16.50	16.50	16.50	---	---	---			
17	16.52	16.49	16.50	16.49	16.46	16.47	16.50	16.40	16.50	---	---	---			
18	16.52	16.49	16.50	16.48	16.45	16.46	16.50	16.40	16.45	---	---	---			
19	16.50	16.48	16.49	17.64	16.46	16.65	16.50	16.40	16.41	---	---	---			
20	16.49	16.47	16.48	16.90	16.50	16.58	16.40	16.40	16.40	---	---	---			
21	16.50	16.48	16.49	16.50	16.40	16.42	16.80	16.40	16.53	---	---	---			
22	16.50	16.47	16.48	16.40	16.40	16.40	16.90	16.50	16.62	---	---	---			
23	16.49	16.47	16.48	18.20	16.40	17.14	16.50	16.50	16.50	---	---	---			
24	16.48	16.46	16.47	18.10	16.60	16.79	16.50	16.40	16.48	---	---	---			
25	16.47	16.45	16.46	18.30	16.60	16.92	16.50	16.40	16.44	---	---	---			
26	16.48	16.44	16.46	17.20	16.60	16.79	16.50	16.40	16.40	---	---	---			
27	16.46	16.43	16.45	16.60	16.50	16.57	17.40	16.40	16.47	---	---	---			
28	16.47	16.44	16.45	16.50	16.50	16.50	16.50	16.40	16.47	---	---	---			
29	16.47	16.44	16.46	16.50	16.50	16.50	16.40	16.40	16.40	---	---	---			
30	16.46	16.44	16.45	16.50	16.50	16.50	16.40	16.40	16.40	---	---	---			
31	---	---	---	16.50	16.50	16.50	16.40	16.40	16.40	---	---	---			
MONTH	17.03	16.43	16.53	18.70	16.40	16.64	18.40	16.30	16.49	---	---	---			

TOWN BROOK AT DIVERSION TUNNEL AT QUINCY, MA 01105584



WEYMOUTH FORE RIVER BASIN

011055841 BURGIN BROOK AT DIVERSION TUNNEL AT QUINCY, MA

LOCATION.--Lat 42°14'40", long 71°00'15", Norfolk County, Hydrologic Unit 01090001, on right bank, 50 ft upstream from diversion tunnel, 100 ft west of Burgin Parkway, and 0.5 mi south of Quincy.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Gage height: February to September 1999.

GAGE.--Water-stage recorder. Elevation of gage is 12.10 ft above National Geodetic Vertical Datum of 1929. Elevation data provided by U.S. Army Corps of Engineers.

REMARKS.--Records not rated.

EXTREMES FOR PERIOD FEBRUARY TO SEPTEMBER 1999.--Maximum gage height, 18.31 ft above NGVD, Sept. 9, 10, but may have been greater during periods of no gage height record; minimum gage height, 13.39 ft, many days during summer period, but may have been less during periods of no gage height record.

WATER LEVEL, IN FEET ABOVE NGVD OF 1929, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	14.70	13.84	14.04	13.47	13.46	13.46	13.43	13.42	13.42
2	---	---	---	13.84	13.74	13.79	13.46	13.45	13.46	13.43	13.42	13.43
3	---	---	---	14.60	13.71	13.82	13.45	13.45	13.45	13.87	13.42	13.47
4	---	---	---	14.62	13.75	13.92	13.46	13.44	13.45	13.94	13.46	13.60
5	---	---	---	13.75	13.61	13.66	13.45	13.45	13.45	13.77	13.44	13.55
6	---	---	---	14.14	13.60	13.75	13.45	13.44	13.45	13.44	13.42	13.43
7	---	---	---	13.76	13.62	13.67	13.45	13.44	13.45	13.43	13.42	13.42
8	---	---	---	13.63	13.60	13.61	13.45	13.44	13.45	14.79	13.42	13.57
9	---	---	---	---	---	---	13.46	13.44	13.44	13.71	13.43	13.50
10	---	---	---	13.61	13.59	13.60	13.45	13.44	13.44	13.43	13.42	13.42
11	---	---	---	13.59	13.57	13.58	13.45	13.44	13.44	13.43	13.41	13.42
12	---	---	---	13.62	13.58	13.59	13.45	13.44	13.44	13.42	13.41	13.42
13	---	---	---	13.60	13.56	13.58	13.45	13.43	13.44	13.42	13.41	13.42
14	---	---	---	13.56	13.55	13.55	13.44	13.44	13.44	13.42	13.41	13.41
15	---	---	---	13.83	13.55	13.67	13.45	13.43	13.44	13.42	13.41	13.41
16	---	---	---	13.69	13.57	13.62	14.06	13.43	13.48	13.42	13.41	13.41
17	---	---	---	13.67	13.58	13.61	13.97	13.43	13.48	13.42	13.41	13.42
18	---	---	---	13.60	13.57	13.59	13.43	13.43	13.43	13.42	13.41	13.42
19	---	---	---	13.57	13.53	13.55	13.58	13.43	13.49	13.48	13.42	13.42
20	---	---	---	13.54	13.51	13.52	13.58	13.47	13.54	13.63	13.43	13.46
21	---	---	---	13.51	13.48	13.50	13.47	13.41	13.43	13.44	13.43	13.43
22	---	---	---	14.16	13.48	13.64	13.50	13.41	13.44	13.44	13.42	13.43
23	---	---	---	13.52	13.50	13.51	13.56	13.41	13.46	14.50	13.43	13.46
24	---	---	---	13.63	13.49	13.53	13.44	13.42	13.43	14.81	13.46	13.84
25	---	---	---	13.60	13.50	13.53	13.43	13.41	13.42	13.94	13.43	13.55
26	---	---	---	13.52	13.50	13.51	13.42	13.41	13.42	13.43	13.41	13.42
27	13.66	13.58	13.62	13.50	13.48	13.49	13.42	13.41	13.42	13.42	13.40	13.41
28	15.06	13.56	14.08	14.21	13.48	13.74	13.42	13.41	13.42	13.41	13.40	13.41
29	---	---	---	13.60	13.50	13.53	13.43	13.42	13.42	13.41	13.40	13.41
30	---	---	---	13.50	13.48	13.49	13.43	13.42	13.42	13.41	13.40	13.41
31	---	---	---	13.48	13.47	13.47	---	---	---	13.41	13.40	13.41
MONTH	---	---	---	---	---	---	14.06	13.41	13.45	14.81	13.40	13.46

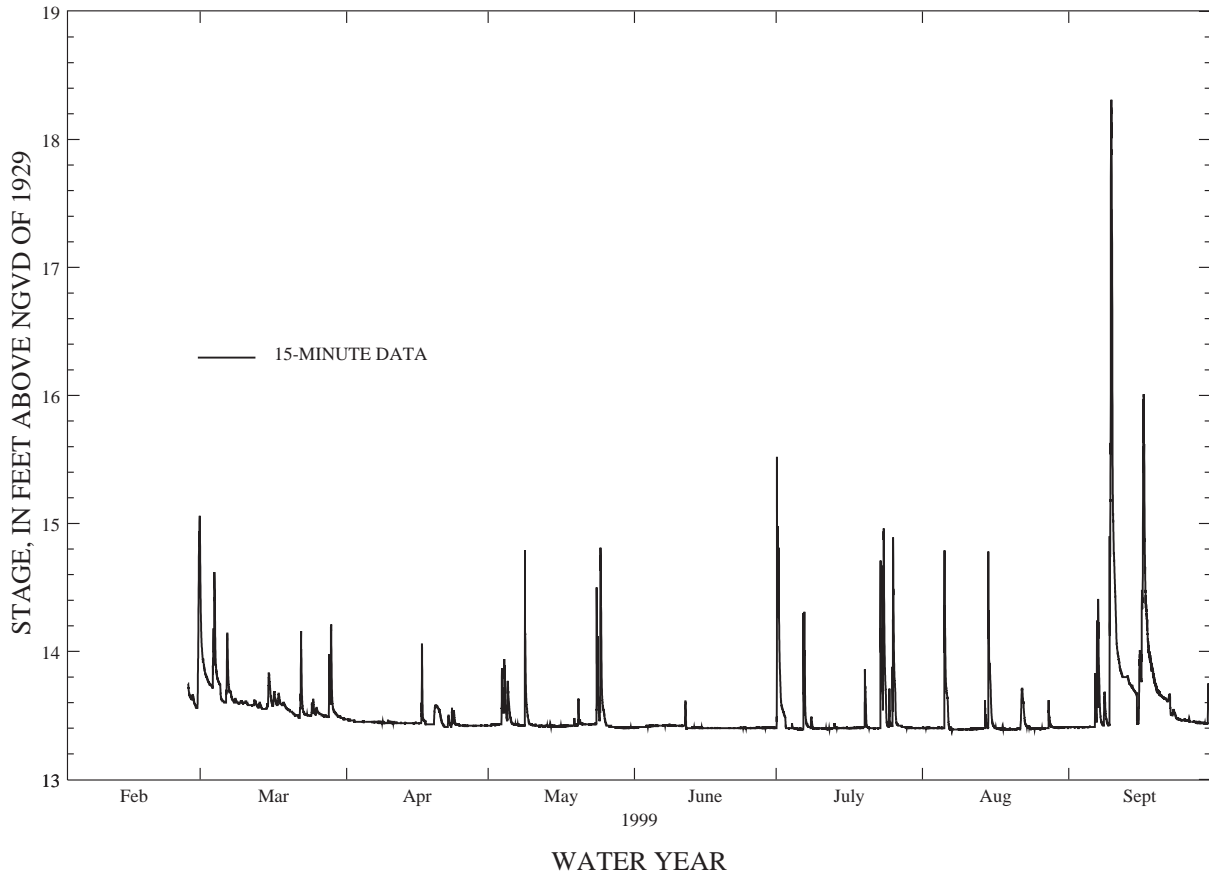
WEYMOUTH FORE RIVER BASIN

011055841 BURGIN BROOK AT DIVERSION TUNNEL AT QUINCY, MA--Continued

WATER LEVEL, IN FEET ABOVE NGVD OF 1929, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.41	13.40	13.41	15.52	13.40	14.14	13.41	13.40	13.40	13.41	13.40	13.41
2	13.41	13.41	13.41	13.63	13.43	13.53	13.41	13.40	13.40	13.41	13.40	13.41
3	13.42	13.41	13.41	13.43	13.39	13.40	13.41	13.40	13.40	13.41	13.40	13.41
4	13.42	13.41	13.42	13.44	13.39	13.40	13.41	13.40	13.40	13.41	13.40	13.41
5	13.42	13.41	13.42	13.40	13.39	13.40	14.79	13.40	13.62	13.42	13.40	13.41
6	13.42	13.42	13.42	14.31	13.39	13.49	13.73	13.39	13.52	14.24	13.41	13.51
7	13.43	13.42	13.42	14.01	13.41	13.50	13.41	13.39	13.39	14.41	13.44	13.67
8	13.43	13.42	13.42	13.49	13.39	13.42	13.40	13.39	13.39	13.68	13.42	13.51
9	13.43	13.41	13.42	13.40	13.39	13.40	13.40	13.39	13.39	18.31	13.42	14.32
10	13.42	13.41	13.42	13.40	13.39	13.40	13.40	13.39	13.39	18.31	14.23	15.37
11	13.61	13.39	13.45	13.40	13.39	13.40	13.40	13.39	13.39	14.23	13.85	13.96
12	13.40	13.39	13.40	13.40	13.39	13.40	13.40	13.39	13.40	---	---	---
13	13.41	13.40	13.41	13.44	13.40	13.41	13.40	13.39	13.40	---	---	---
14	13.41	13.40	13.41	13.41	13.40	13.40	14.78	13.40	13.49	13.74	13.69	13.71
15	13.41	13.40	13.40	13.41	13.40	13.40	14.32	13.42	13.68	13.94	13.43	13.60
16	13.41	13.40	13.40	13.41	13.40	13.40	13.42	13.39	13.40	16.01	13.76	14.58
17	13.41	13.40	13.40	13.41	13.40	13.40	13.40	13.39	13.40	15.37	13.97	14.33
18	13.41	13.40	13.40	13.41	13.40	13.40	13.40	13.39	13.39	14.00	13.79	13.89
19	13.41	13.40	13.40	13.86	13.40	13.48	13.40	13.39	13.39	13.80	13.67	13.73
20	13.40	13.40	13.40	13.61	13.40	13.42	13.40	13.39	13.39	13.69	13.63	13.66
21	13.41	13.40	13.40	13.40	13.39	13.40	13.68	13.39	13.43	13.64	13.61	13.63
22	13.41	13.40	13.40	13.40	13.39	13.40	13.71	13.42	13.55	13.67	13.50	13.57
23	13.41	13.40	13.40	14.96	13.40	14.01	13.42	13.39	13.41	13.55	13.47	13.51
24	13.41	13.40	13.40	13.95	13.41	13.54	13.40	13.39	13.40	13.48	13.46	13.47
25	13.41	13.40	13.40	14.89	13.41	13.67	13.40	13.39	13.40	13.47	13.45	13.46
26	13.41	13.40	13.40	13.90	13.42	13.53	13.40	13.39	13.40	13.46	13.45	13.45
27	13.41	13.40	13.40	13.42	13.41	13.42	13.62	13.40	13.42	13.46	13.44	13.45
28	13.41	13.40	13.41	13.41	13.40	13.41	13.44	13.40	13.41	13.45	13.44	13.44
29	13.41	13.40	13.41	13.41	13.40	13.40	13.41	13.40	13.41	13.45	13.43	13.44
30	13.41	13.40	13.41	13.41	13.40	13.40	13.41	13.40	13.41	13.75	13.43	13.44
31	---	---	---	13.41	13.40	13.40	13.41	13.40	13.41	---	---	---
MONTH	13.61	13.39	13.41	15.52	13.39	13.48	14.79	13.39	13.43	---	---	---

BURGIN BROOK AT DIVERSION TUNNEL AT QUINCY, MA 011055841



WEYMOUTH FORE RIVER BASIN

01105585 TOWN BROOK AT QUINCY, MA--Continued

SUMMARY STATISTICS

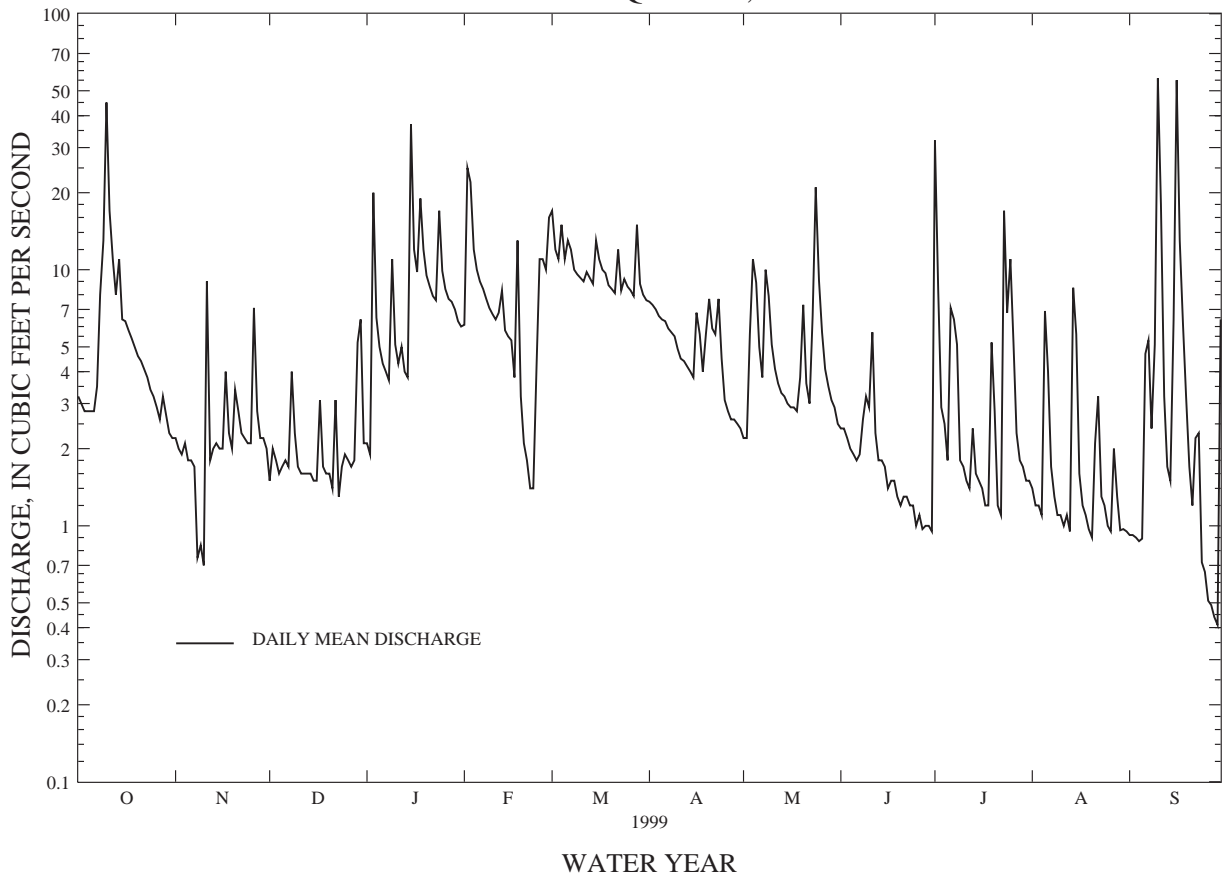
FOR 1999 WATER YEAR

WATER YEARS 1972 - 1999

ANNUAL TOTAL	1942.09		
ANNUAL MEAN	5.32		8.60
HIGHEST ANNUAL MEAN			15.6 1984
LOWEST ANNUAL MEAN			4.86 1981
HIGHEST DAILY MEAN	56	Sep 10	210 Jan 26 1978
LOWEST DAILY MEAN	.41	Sep 29	.41 Sep 29 1999
ANNUAL SEVEN-DAY MINIMUM	.79	Sep 23	.76 Sep 19 1980
INSTANTANEOUS PEAK FLOW	368	Sep 10	381 May 13 1975
INSTANTANEOUS PEAK STAGE	7.10	Sep 10	7.40 May 13 1975
INSTANTANEOUS LOW FLOW	.21	Sep 29	
10 PERCENT EXCEEDS	11		19
50 PERCENT EXCEEDS	3.2		4.7
90 PERCENT EXCEEDS	1.2		1.4

e Estimated

TOWN BROOK AT QUINCY, MA 01105585



WEYMOUTH FORE RIVER BASIN

01105585 TOWN BROOK AT QUINCY, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May to August 1999.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-A TURE (DEG C) (00020)	TEMPER-A TURE (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL /100 ML) (31633)
MAY											
20...	1230	5.9	492	7.1	17.0	16.5	758	7.8	80	--	--
JUN											
17...	1345	1.3	1,010	7.1	17.0	16.5	762	8.9	91	--	--
JUL											
23...	1445	7.7	270	6.2	24.5	23.0	754	7.2	84	3,800	2,200
AUG											
24...	0915	1.1	1,000	6.7	24.5	18.5	761	8.8	94	420	650

DATE	FECAL COLI-FORM 24-HR MEM.FIL (COLS./100 ML) (31613)	E. COLI WTR FLT MF 0.7U NUT AG-AR+MUG 4HR35D COL/100 (50278)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
MAY										
20...	2,400	--	0.027	0.447	0.153	0.48	0.63	0.073	0.013	0.026
JUN										
17...	610	200	.053	1.95	.164	.42	.35	.014	.010	.004
JUL										
23...	--	--	.024	.614	.200	.52	.55	.041	<.010	.010
AUG										
24...	--	--	<.010	2.33	.050	.20	.19	.027	<.010	<.004



USGS drill rig on display at open house for new USGS office in Northborough, Massachusetts. (photo by J. L. Zanca)

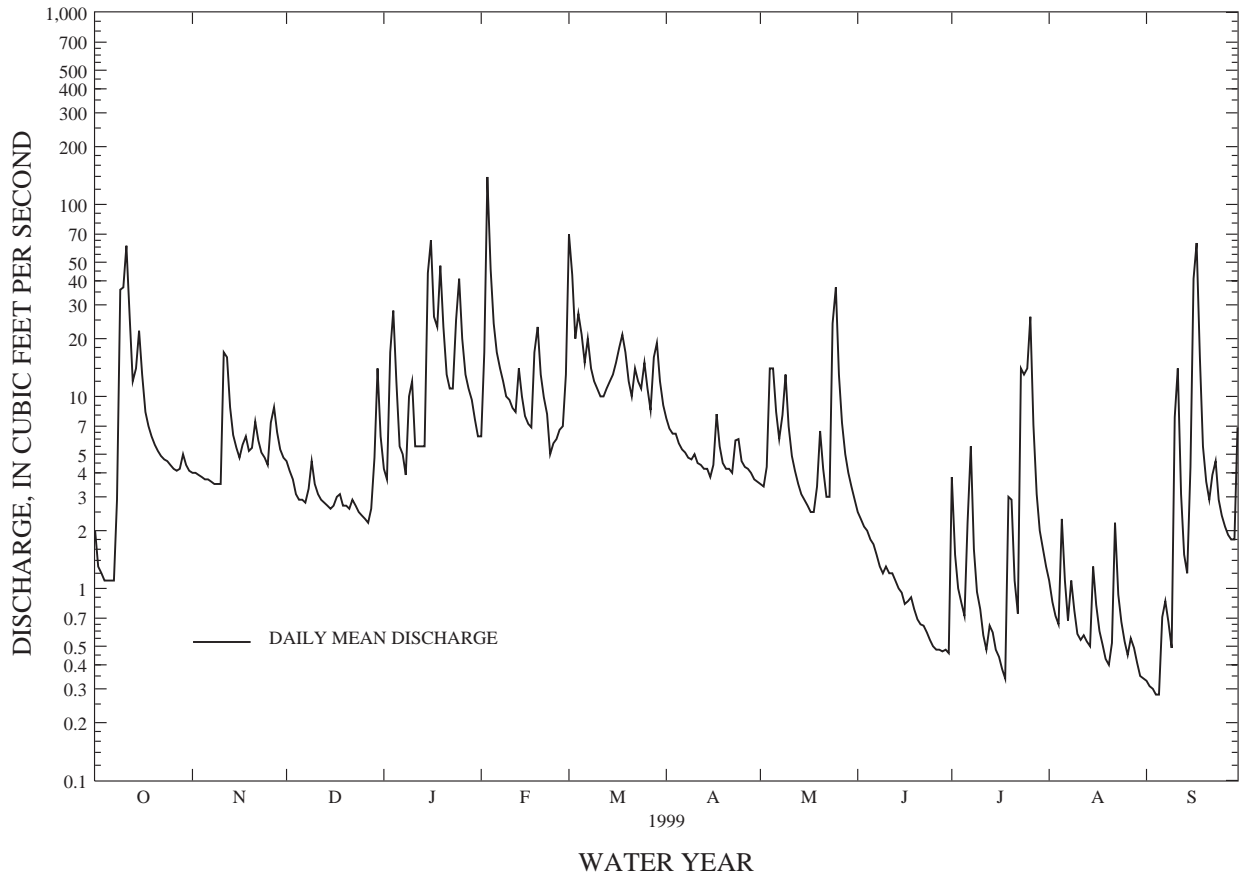
WEYMOUTH BACK RIVER BASIN

01105600 OLD SWAMP RIVER NEAR SOUTH WEYMOUTH, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1966 - 1999	
ANNUAL TOTAL	4632.34		2859.08			
ANNUAL MEAN	12.7		7.83		9.18	
HIGHEST ANNUAL MEAN					14.4 1984	
LOWEST ANNUAL MEAN					3.91 1985	
HIGHEST DAILY MEAN	146	Feb 25	139	Feb 3	361	Mar 18 1968
LOWEST DAILY MEAN	.80	Aug 10	.28	Sep 4	.05	Sep 11 1995
ANNUAL SEVEN-DAY MINIMUM	1.0	Aug 4	.31	Aug 30	.06	Sep 6 1995
INSTANTANEOUS PEAK FLOW			171	Feb 3	590	May 31 1984
INSTANTANEOUS PEAK STAGE			4.62	Feb 3	5.35	Feb 15 1971
INSTANTANEOUS LOW FLOW			.25	Sep 2	.05	Sep 10 1995
ANNUAL RUNOFF (CFSM)	2.82		1.74		2.04	
ANNUAL RUNOFF (INCHES)	38.29		23.64		27.72	
10 PERCENT EXCEEDS	26		17		19	
50 PERCENT EXCEEDS	6.6		4.2		5.4	
90 PERCENT EXCEEDS	1.7		.59		.81	

e Estimated

OLD SWAMP RIVER NEAR SOUTH WEYMOUTH, MA 01105600



WEYMOUTH BACK RIVER BASIN

01105600 OLD SWAMP RIVER NEAR SOUTH WEYMOUTH, MA--Continued

PERIOD OF RECORD.--Water years 1967-68, 1999.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (MG/L) (00301)	COLI-FORM, FECAL, UM-MF (COLS./100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL /100 ML) (31633)
MAY											
20...	1105	8.3	230	7.3	16.0	14.5	757	7.5	74	--	--
JUN											
22...	1145	.55	370	6.6	22.0	17.5	761	9.2	96	--	--
JUL											
24...	1115	15	213	6.8	26.0	21.0	752	7.2	82	--	--
AUG											
23...	1317	1.1	260	7.0	28.0	18.5	757	8.6	92	310	210

DATE	FECAL COLI-FORM 24-HR MEM. FIL (COLS./100 ML) (31613)	E. COLI WTR FLT MF 0.7U NUT AG-AR+MUG 4HR35D COL/100 (50278)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
MAY										
20...	2,400	2,200	0.010	0.416	0.036	0.49	0.70	0.080	0.018	0.040
JUN										
22...	90	70	.017	.938	.043	.28	.29	.014	.017	.019
JUL										
24...	--	--	<.010	.433	<.020	.74	.64	.012	.013	.032
AUG										
23...	--	--	<.010	.548	<.020	.24	.23	.027	.014	.019



Metropolitan District Commission dam 100 feet upstream from gaging station on the Neponset River at Milton Village, Massachusetts. (photo by J. L. Zanca)

WEYMOUTH BACK RIVER BASIN

01105612 WEYMOUTH BACK RIVER AT EAST WEYMOUTH, MA

LOCATION.--Lat 42°12'56", long 70°55'25", Norfolk County, Hydrologic Unit 01090001, 0.2 mi upstream from mouth, 0.2 mi downstream from Broad Street, 0.2 mi north of East Weymouth.

DRAINAGE AREA.--Not determined.

PERIOD of RECORD. -- Water Years 1999.

REMARKS. -- Discharge obtained by discharge measurements on the day of sampling. Instantaneous records are based on composite samples and are representative of the cross section.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, UM-MF (COLS./ 100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)
MAY											
21...	1130	7.9	497	6.8	17.5	18.0	760	8.7	92	--	--
JUN											
23...	1200	.53	9,500	6.6	26.0	21.0	761	8.5	99	--	--
JUL											
23...	1100	1.8	7,840	6.3	26.5	23.0	755	7.9	95	28,000	15,000
AUG											
23...	1530	.93	3,370	6.6	28.0	24.5	758	10.4	127	3,400	4,200

DATE	FECAL COLI-FORM 24-HR MEM.FIL (COLS./ 100 ML) (31613)	E. COLI WTR FLT MF 0.7U NUT AG-AR+MUG 4HR35D COL/100 (50278)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
MAY										
21...	1,100	1,100	<0.010	0.247	0.122	0.50	0.62	0.043	0.014	0.021
JUN										
23...	20,000	21,000	.019	1.17	.074	.28	.38	.029	.015	.014
JUL										
23...	--	--	.013	1.02	.090	.48	.45	.044	<.010	.025
AUG										
23...	--	--	<.010	.527	.035	.32	.35	.015	<.010	.012

WEIR RIVER BASIN

01105642 WEIR RIVER AT RT3A BRIDGE NEAR HINGHAM, MA

LOCATION.--Lat 42°14'36", long 70°51'36", Norfolk County, Hydrologic Unit 01090001, upstream side bridge on Route 3A, 2.0 mi north of Hingham.

DRAINAGE AREA.--Not determined.

PERIOD of RECORD.--Water Years 1999.

REMARKS.--Discharge obtained by discharge measurements on the day of sampling. Instantaneous records are based on composite samples and are representative of the cross section.

WATER-QUALITY DATA, OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-AIRE (DEG C) (00020)	TEMPER-AIRE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED SATUR-ATION (00301)	COLI-FORM, FECAL, UM-MF (COLS./100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL /100 ML) (31633)
JUN											
02...	1300	11	233	6.8	28.5	21.5	749	6.2	72	--	--
22...	1300	3.6	283	6.2	24.0	19.0	762	10.1	109	--	--
JUL											
24...	1230	2.6	238	6.7	26.5	22.5	752	6.6	77	410	390
AUG											
25...	1200	1.5	290	6.8	28.0	21.0	761	8.0	90	160	230

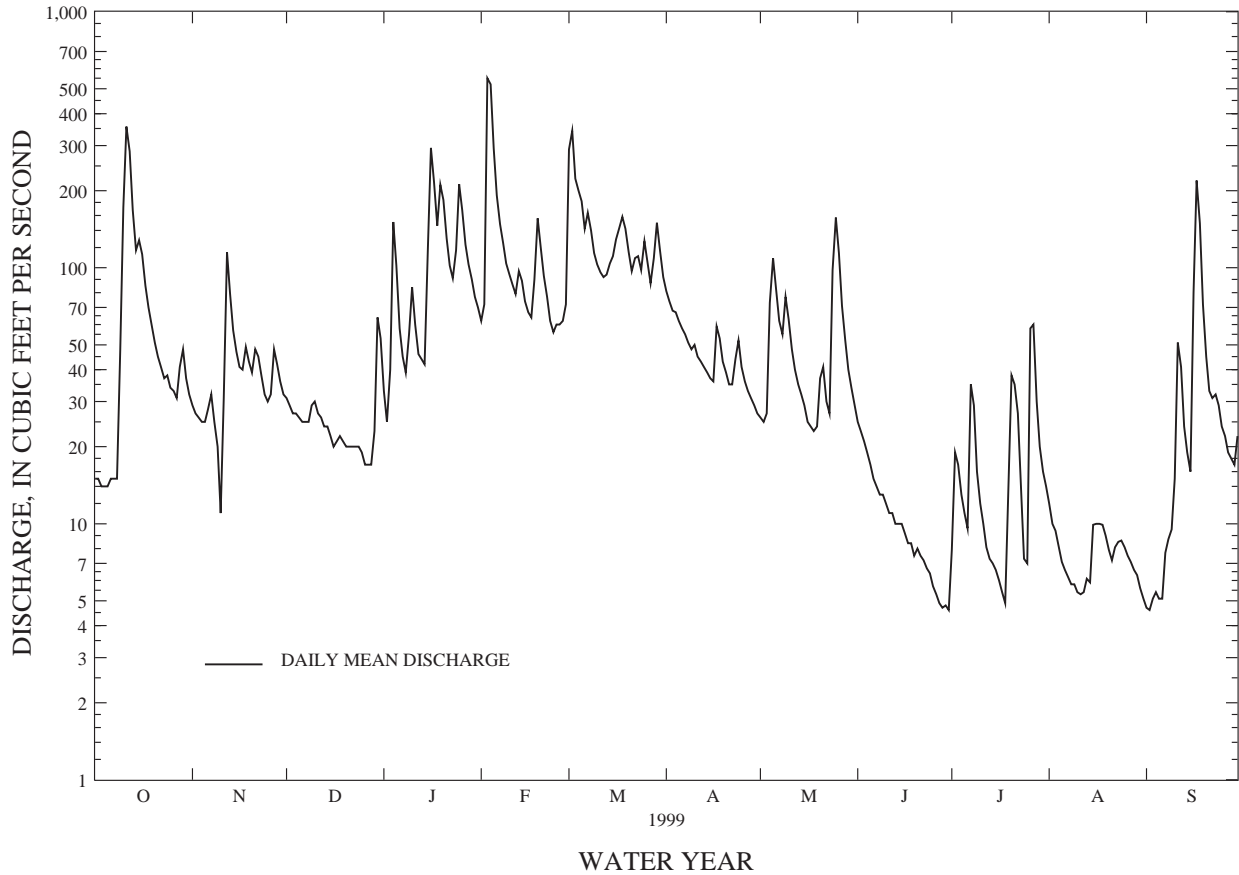
DATE	FECAL COLI-FORM 24-HR MEM.FIL (COLS./100 ML) (31613)	E. COLI WTR FLT MF 0.7U NUT AG-AR+MUG COL/100 (50278)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
JUN										
02...	180	210	0.019	0.480	0.102	0.59	0.67	0.044	0.027	0.032
22...	570	410	.014	.605	.024	.37	.46	.044	.040	.033
JUL										
24...	--	--	<.010	.509	.026	.50	.35	.035	.029	.045
AUG										
25...	--	--	<.010	.306	<.020	.32	.33	.027	<.010	.020

NORTH RIVER BASIN

01105730 INDIAN HEAD RIVER AT HANOVER, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1966 - 1999	
ANNUAL TOTAL	35913		20517.9		63.1	
ANNUAL MEAN	98.4		56.2		27.6	
HIGHEST ANNUAL MEAN					97.3	
LOWEST ANNUAL MEAN					27.6	
HIGHEST DAILY MEAN	811	Feb 25	550	Feb 3	1260	Mar 19 1968
LOWEST DAILY MEAN	11	Nov 10	4.6	Jun 30	.18	Sep 27 1980
ANNUAL SEVEN-DAY MINIMUM	15	Oct 1	5.0	Aug 31	.38	Sep 26 1980
INSTANTANEOUS PEAK FLOW			643	Feb 3	1390	Mar 18 1968
INSTANTANEOUS PEAK STAGE			5.20	Feb 3	7.13	Mar 18 1968
INSTANTANEOUS LOW FLOW			1.3	Aug 8	.14	Sep 26 1980
ANNUAL RUNOFF (CFSM)	3.25		1.86		2.08	
ANNUAL RUNOFF (INCHES)	44.09		25.19		28.28	
10 PERCENT EXCEEDS	208		127		140	
50 PERCENT EXCEEDS	56		33		41	
90 PERCENT EXCEEDS	20		7.2		7.1	

INDIAN HEAD RIVER AT HANOVER, MA 01105730



JONES RIVER BASIN

01105870 JONES RIVER AT KINGSTON, MA

LOCATION.--Lat 41°59'27", long 70°44'03", Plymouth County, Hydrologic Unit 01090002, on left bank 100 ft downstream from Elm Street Bridge at Kingston and 2.8 mi upstream from mouth.

DRAINAGE AREA.--15.7 mi², excludes 4.09 mi² above outlet of Silver Lake, from which flow is diverted for municipal supply of Brockton, Whitman, and Hanson.

PERIOD OF RECORD.--Discharge: August 1966 to current year.
Water-quality records: Water years 1970-71.

REVISED RECORDS.--WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 4.76 ft above sea level (levels by Massachusetts Department of Public Works).

REMARKS.--Records good. Flow regulated by pond upstream. Flow affected at times by wastage from Silver Lake. Surface flow may be affected by ground water that enters from or moves into adjacent basins. Occasional backwater from tidal surge.

AVERAGE DISCHARGE.--33 years, 32.7 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 575 ft³/s, Mar. 19, 1968, gage height, 4.50 ft; maximum gage height, 5.88 ft, Feb. 7, 1978, from peak-stage indicator (backwater from tide); minimum daily, 0.59 ft³/s, Aug. 11, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 138 ft³/s, Mar. 1, gage height, 3.88 ft; minimum daily, 7.4 ft³/s, Aug. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	23	17	17	32	109	57	33	22	10	9.0	8.7
2	14	21	17	13	36	123	48	34	20	11	8.4	8.1
3	12	21	16	17	110	98	42	38	18	10	8.5	7.6
4	10	20	17	37	125	94	38	57	17	10	7.9	8.3
5	11	17	17	29	108	86	38	93	16	11	8.1	7.9
6	14	16	15	24	86	70	38	87	16	12	8.1	8.1
7	13	15	14	22	75	88	35	69	15	18	7.4	8.9
8	9.9	15	15	20	64	98	33	57	15	15	8.5	15
9	28	14	17	26	54	91	32	54	15	11	10	15
10	54	14	17	32	47	86	34	48	14	11	9.7	23
11	76	20	16	25	47	75	30	42	15	12	9.4	40
12	63	29	16	23	41	68	31	38	16	12	9.9	25
13	55	29	15	23	41	64	31	36	15	14	9.7	18
14	47	27	15	19	39	60	29	34	16	14	9.8	15
15	52	25	14	40	35	63	32	31	16	13	14	12
16	40	23	14	87	34	72	35	30	15	12	14	35
17	30	22	15	86	32	74	43	30	14	11	11	71
18	38	24	15	70	37	78	43	30	14	10	10	59
19	36	22	15	76	48	76	42	30	14	13	9.1	44
20	32	21	14	65	39	68	39	34	13	20	9.2	32
21	28	23	13	52	39	57	39	36	13	15	9.8	24
22	26	22	8.0	44	34	57	32	33	13	12	12	20
23	23	21	8.2	41	28	56	36	34	12	20	11	18
24	21	20	11	45	26	59	41	37	12	36	10	16
25	22	17	11	57	28	86	38	47	11	20	9.3	15
26	22	18	11	53	40	85	37	43	11	21	9.4	14
27	22	20	12	46	48	75	34	37	9.3	17	9.6	13
28	22	20	13	38	42	79	32	32	8.7	14	8.9	12
29	25	19	18	41	---	82	32	27	9.1	11	8.9	10
30	28	18	24	43	---	74	33	25	8.6	10	8.6	12
31	25	---	19	37	---	65	---	24	---	9.4	8.6	---
TOTAL	913.9	616	459.2	1248	1415	2416	1104	1280	423.7	435.4	297.8	615.6
MEAN	29.5	20.5	14.8	40.3	50.5	77.9	36.8	41.3	14.1	14.0	9.61	20.5
MAX	76	29	24	87	125	123	57	93	22	36	14	71
MIN	9.9	14	8.0	13	26	56	29	24	8.6	9.4	7.4	7.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1999, BY WATER YEAR (WY)

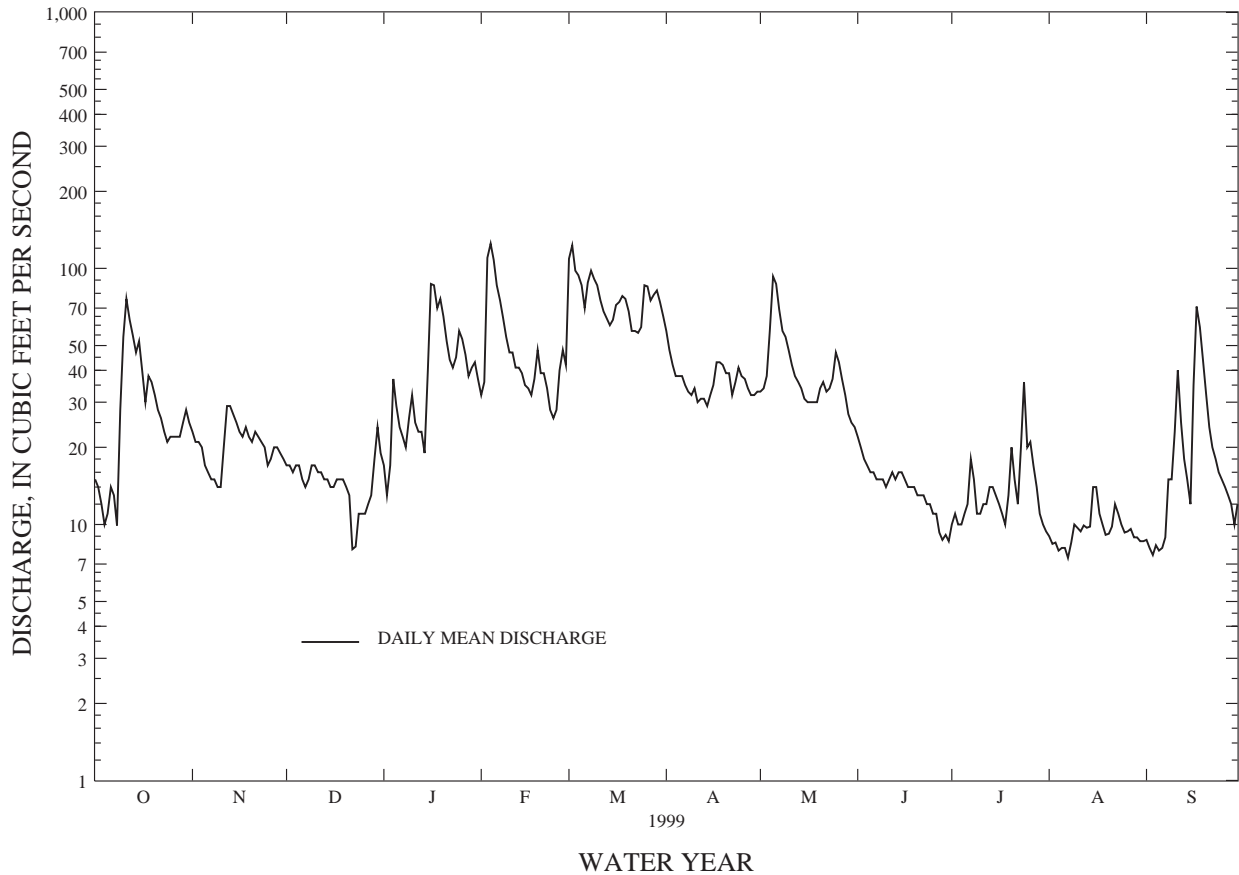
MEAN	19.2	29.9	34.4	37.6	45.4	59.0	50.8	38.7	26.1	17.5	16.3	17.2
MAX	83.6	66.0	88.1	78.2	97.5	135	114	71.2	69.4	41.6	42.9	55.8
(WY)	1997	1973	1997	1979	1998	1983	1984	1998	1984	1998	1979	1996
MIN	7.94	5.71	10.8	9.00	20.1	25.8	17.3	14.9	9.56	6.34	4.79	5.02
(WY)	1967	1975	1981	1981	1980	1985	1985	1981	1981	1981	1981	1995

JONES RIVER BASIN

01105870 JONES RIVER AT KINGSTON, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1966 - 1999	
ANNUAL TOTAL	19419.9		11224.6		32.7	
ANNUAL MEAN	53.2		30.8		54.6	
HIGHEST ANNUAL MEAN					14.9	1984
LOWEST ANNUAL MEAN					14.9	1981
HIGHEST DAILY MEAN	288	Feb 25	125	Feb 4	527	Mar 19 1968
LOWEST DAILY MEAN	7.9	Sep 21	7.4	Aug 7	.59	Aug 11 1966
ANNUAL SEVEN-DAY MINIMUM	10	Sep 15	8.1	Aug 2	1.1	Aug 6 1966
INSTANTANEOUS PEAK FLOW			138	Mar 1	575	Mar 19 1968
INSTANTANEOUS PEAK STAGE			3.88	Mar 1	5.88	Feb 7 1978
INSTANTANEOUS LOW FLOW			6.6	Dec 23		
10 PERCENT EXCEEDS	123		68		64	
50 PERCENT EXCEEDS	36		22		24	
90 PERCENT EXCEEDS	14		9.9		9.1	

JONES RIVER AT KINGSTON, MA 01105870



QUASHNET RIVER BASIN

011058837 QUASHNET RIVER AT WAQUOIT VILLAGE, MA

LOCATION.--Lat 41°35'32", long 70°30'30", Barnstable County, Hydrologic Unit 01090002, on right bank 15 ft upstream from bridge on Martins Road, 0.5 mi northeast of Waquoit Village, and 1.4 mi upstream from mouth.

DRAINAGE AREA.--Surface drainage, from topography, about 2.58 mi², excludes area drained by Johns Pond. This stream drains from a ground-water basin which is larger than, and not coincident with, the surface-water basin.

PERIOD OF RECORD.--October 1988 to current year.

REVISED RECORDS.--WDR MA-RI-92-1: 1990 (M), 1991.

GAGE.--Water-stage recorder. Elevation of gage is 0.86 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow at times includes overflow and leakage from Johns Pond. Occasional regulation by cranberry bog upstream. Occasional backwater from tidal surge.

AVERAGE DISCHARGE.--11 years, 15.9 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42 ft³/s, July 1, 1998, gage height, 3.09 ft; maximum gage height, 4.55 ft, Aug. 19, 1991 (tidal surge); minimum discharge, 5.7 ft³/s, Oct. 24, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32 ft³/s, Mar. 1, gage height, 2.74 ft; maximum gage height, 2.74 ft, Apr. 8, (tidal surge); minimum discharge, 9.0 ft³/s, Jan. 2, 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	13	14	9.3	14	28	16	18	19	14	11	12
2	15	13	14	9.1	14	18	15	18	19	16	12	12
3	16	13	14	e10	18	16	14	21	19	20	e13	12
4	16	13	14	11	15	17	16	24	18	18	e13	12
5	16	13	14	9.7	15	16	17	22	16	16	e12	11
6	15	13	14	9.6	14	16	18	20	15	15	e12	12
7	15	13	14	9.8	14	18	18	19	14	14	e12	12
8	15	13	14	9.8	14	15	e18	19	13	14	e12	13
9	21	12	15	12	16	15	e20	19	12	13	e12	12
10	23	13	14	12	15	15	20	18	13	13	12	14
11	20	16	15	11	14	15	19	18	13	12	12	15
12	17	14	14	12	14	15	20	17	13	11	12	13
13	16	13	14	11	14	15	19	17	13	12	12	11
14	16	13	14	13	14	15	17	14	14	13	14	11
15	16	14	14	23	14	17	16	15	15	12	18	11
16	16	14	14	27	14	18	18	16	15	12	16	13
17	16	15	14	22	14	18	19	17	14	12	14	14
18	15	16	14	17	15	17	18	17	14	12	13	13
19	14	14	14	16	15	16	18	19	13	11	13	11
20	13	14	13	15	14	16	18	21	13	12	12	11
21	13	15	13	14	14	15	20	19	13	12	13	11
22	13	14	13	13	13	18	20	18	13	12	13	11
23	13	14	9.5	9.9	13	16	19	18	13	12	13	11
24	13	14	9.5	11	13	17	19	21	12	12	12	11
25	13	14	9.4	15	14	18	18	22	12	12	12	11
26	13	e14	9.4	19	15	16	18	20	12	14	12	11
27	13	14	9.4	17	15	16	19	20	11	13	12	11
28	13	14	10	22	16	18	18	19	11	13	13	11
29	15	14	11	17	---	17	18	19	12	12	12	10
30	13	14	e11	15	---	16	18	19	13	12	12	e10
31	13	---	9.4	14	---	16	---	19	---	11	12	---
TOTAL	472	413	395.6	436.2	404	519	541	583	417	407	393	353
MEAN	15.2	13.8	12.8	14.1	14.4	16.7	18.0	18.8	13.9	13.1	12.7	11.8
MAX	23	16	15	27	18	28	20	24	19	20	18	15
MIN	13	12	9.4	9.1	13	15	14	14	11	11	11	10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1999, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
MEAN	13.7	14.9	13.4	14.4	14.8	17.1	20.6	19.9	17.4	15.3	14.8	14.4
MAX	23.9	22.9	20.3	18.5	23.6	28.4	30.0	27.4	24.3	21.0	21.1	20.7
(WY)	1997	1997	1997	1993	1998	1998	1998	1997	1997	1997	1997	1996
MIN	10.2	12.3	9.56	11.1	10.2	11.4	12.9	11.7	12.2	11.9	12.2	10.7
(WY)	1996	1994	1996	1991	1995	1989	1992	1995	1995	1991	1995	1995

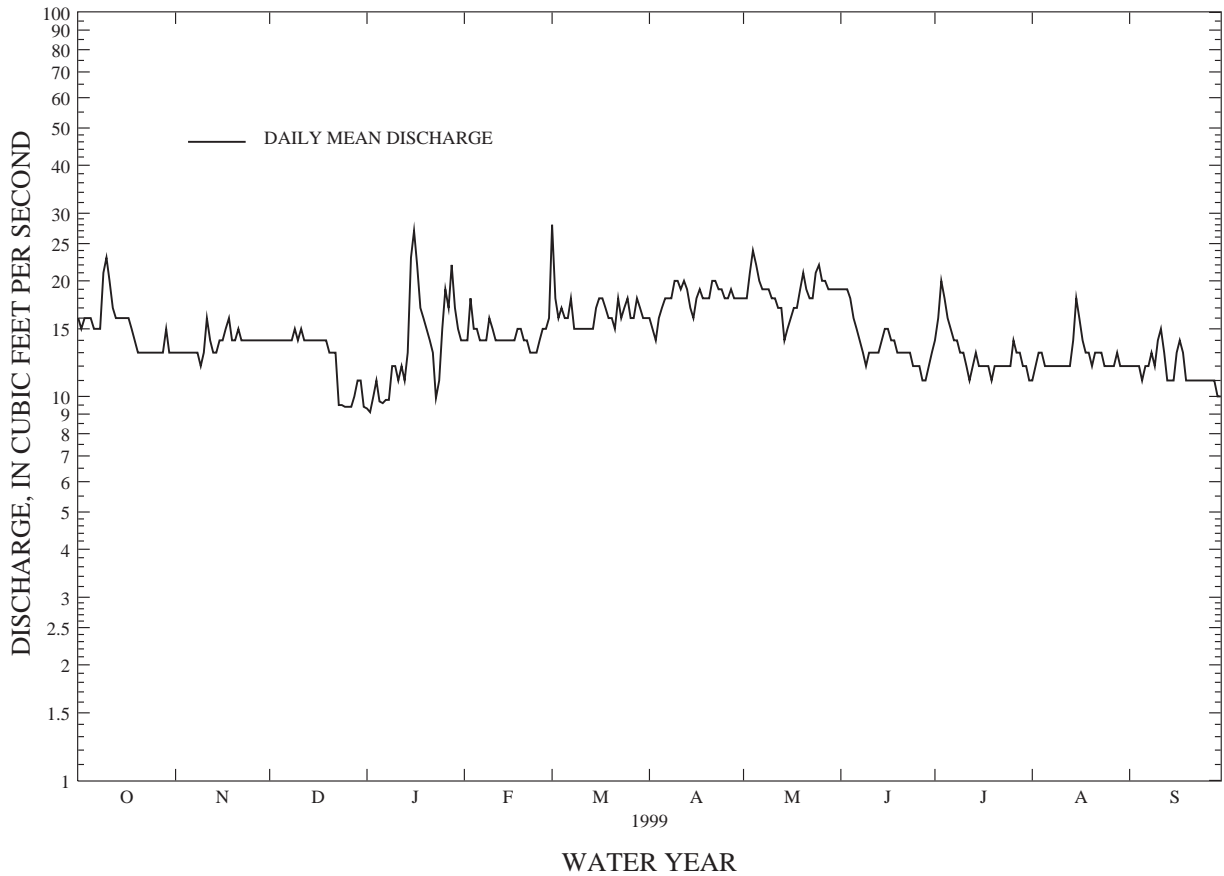
QUASHNET RIVER BASIN

011058837 QUASHNET RIVER AT WAQUOIT VILLAGE, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1989 - 1999	
ANNUAL TOTAL	7472.6		5333.8			
ANNUAL MEAN	20.5		14.6		15.9	
HIGHEST ANNUAL MEAN					21.8 1997	
LOWEST ANNUAL MEAN					12.4 1995	
HIGHEST DAILY MEAN	41	Jul 1	28	Mar 1	41	Jul 1 1998
LOWEST DAILY MEAN	9.4	Dec 25	9.1	Jan 2	5.9	Oct 24 1995
ANNUAL SEVEN-DAY MINIMUM	9.7	Dec 23	9.7	Dec 31	7.2	Oct 18 1995
INSTANTANEOUS PEAK FLOW			32	Mar 1	41	Aug 9 1992
INSTANTANEOUS PEAK STAGE			2.74	Mar 1	4.55	Aug 19 1991
INSTANTANEOUS LOW FLOW			9.0	Jan 2		
10 PERCENT EXCEEDS	29		19		23	
50 PERCENT EXCEEDS	19		14		15	
90 PERCENT EXCEEDS	13		11		11	

e Estimated

QUASHNET RIVER AT WAQUOIT VILLAGE, MA 011058837



SLOCUMS RIVER BASIN

01105933 PASKAMANSET RIVER NEAR SOUTH DARTMOUTH, MA

LOCATION.--Lat 41°35'07", long 70°59'27", Bristol County, Hydrologic Unit 01090002, at bridge on Russells Mills Road, 3.0 mi west of South Dartmouth.

DRAINAGE AREA.--26.2 mi².

PERIOD OF RECORD.--Discharge measurements made in water years 1972-74, 1991-92. October 1995 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 10 ft above sea level, from topographic map. Telephone gage-height telemeter at station.

REMARKS.--Records good except those for estimated daily discharge, which are fair.

AVERAGE DISCHARGE.--4 years, 53.5 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 515 ft³/s, Dec. 9, 1996, gage height, 13.18 ft; minimum, 0.38 ft³/s, Aug. 8, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 260 ft³/s, Mar. 2, gage height, 12.14 ft; minimum, 0.38 ft³/s, Aug. 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	17	22	27	38	163	56	18	16	2.5	0.69	0.81
2	5.1	15	21	18	37	253	48	17	14	2.7	.59	.69
3	4.3	14	20	23	120	229	42	21	13	2.5	.53	.60
4	4.3	13	20	67	193	200	39	51	11	e2.8	.52	.58
5	4.6	12	18	74	183	177	36	70	9.5	e3.1	.52	.55
6	3.8	11	17	57	157	150	33	60	8.6	e2.3	.52	.59
7	3.6	11	16	37	136	164	31	38	7.9	e2.0	.47	1.1
8	4.5	10	16	32	113	165	30	32	7.3	e1.9	9.3	3.5
9	28	9.2	17	58	90	145	29	33	6.3	e1.8	12	4.5
10	58	8.7	16	90	74	120	31	30	5.8	e1.6	6.1	11
11	122	16	15	90	61	97	29	27	5.3	e1.3	4.0	41
12	135	28	14	73	52	80	37	24	4.9	e1.7	3.0	23
13	114	25	14	57	51	71	35	22	4.6	e2.2	3.0	13
14	82	21	13	45	49	63	31	20	5.2	e2.4	3.1	7.9
15	66	18	12	58	43	60	28	19	5.5	1.9	5.4	6.1
16	58	16	12	118	38	69	26	18	4.8	1.6	5.2	22
17	50	22	12	133	36	84	39	16	4.1	1.3	e4.0	34
18	40	52	12	117	40	102	37	15	4.0	1.2	e3.0	26
19	32	46	11	112	65	106	32	16	3.6	1.2	e2.2	17
20	27	36	11	115	67	93	28	23	3.3	1.5	e1.8	11
21	24	38	11	105	58	78	27	26	3.1	1.3	e2.2	8.3
22	22	34	12	92	47	70	25	21	3.0	1.1	e2.8	7.2
23	20	30	11	78	38	66	29	18	2.7	1.0	e2.0	6.4
24	19	27	11	72	33	61	37	35	e2.6	1.9	e1.2	5.5
25	18	25	11	99	32	73	32	52	2.4	1.7	e.90	4.9
26	16	25	10	108	32	79	e27	42	2.4	1.7	e1.2	4.5
27	16	29	10	96	34	73	e24	29	2.2	1.5	e1.5	4.4
28	15	27	13	79	40	70	e22	24	2.1	1.2	e1.3	4.6
29	27	25	27	68	---	80	e21	21	2.4	.82	e1.2	4.4
30	24	23	39	57	---	77	20	20	2.5	.73	e1.0	5.9
31	20	---	34	47	---	66	---	17	---	.72	e.90	---
TOTAL	1067.9	683.9	498	2302	1957	3384	961	875	170.1	53.17	82.14	281.02
MEAN	34.4	22.8	16.1	74.3	69.9	109	32.0	28.2	5.67	1.72	2.65	9.37
MAX	135	52	39	133	193	253	56	70	16	3.1	12	41
MIN	3.6	8.7	10	18	32	60	20	15	2.1	.72	.47	.55
CFSM	1.31	.87	.61	2.83	2.67	4.17	1.22	1.08	.22	.07	.10	.36
IN.	1.52	.97	.71	3.27	2.78	4.80	1.36	1.24	.24	.08	.12	.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1999, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999
MEAN	40.1	47.0	60.0	85.6	89.2
MAX	105	69.2	150	120	145
(WY)	1997	1996	1997	1998	1998
MIN	3.97	22.8	16.1	58.0	59.1
(WY)	1998	1999	1999	1997	1997

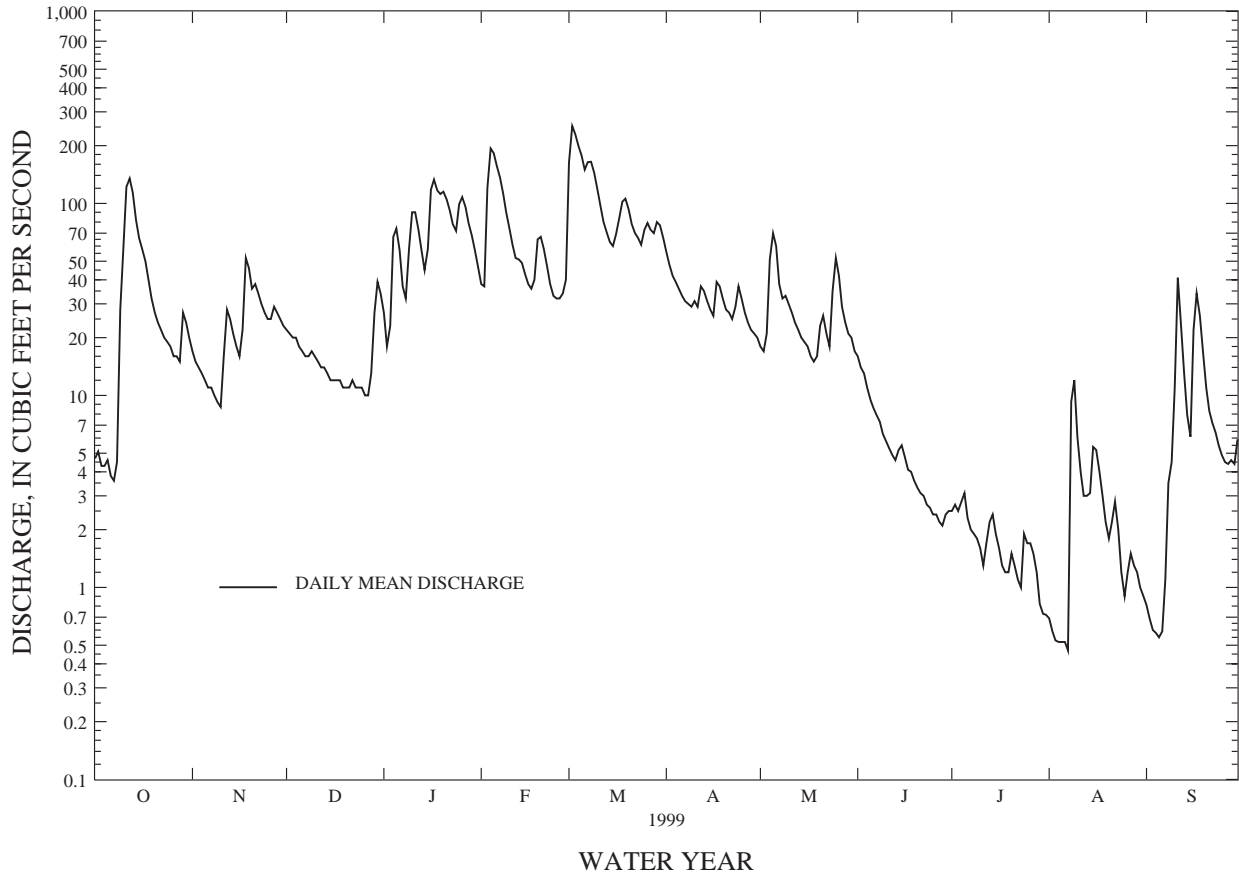
SLOCUMS RIVER BASIN

01105933 PASKAMANSET RIVER NEAR SOUTH DARTMOUTH, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1995 - 1999	
ANNUAL TOTAL	24983.3		12315.23			
ANNUAL MEAN	68.4		33.7		53.5	
HIGHEST ANNUAL MEAN					70.3	
LOWEST ANNUAL MEAN					33.7	
HIGHEST DAILY MEAN	483	Jun 16	253	Mar 2	501	Dec 9 1996
LOWEST DAILY MEAN	2.6	Aug 10	.47	Aug 7	.47	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	3.6	Sep 15	.55	Aug 1	.55	Aug 1 1999
INSTANTANEOUS PEAK FLOW			260	Mar 2	515	Dec 9 1996
INSTANTANEOUS PEAK STAGE			12.14	Mar 2	13.18	Dec 9 1996
INSTANTANEOUS LOW FLOW			.38	Aug 8	.38	Aug 8 1999
ANNUAL RUNOFF (CFSM)	2.61		1.29		2.04	
ANNUAL RUNOFF (INCHES)	35.47		17.49		27.72	
10 PERCENT EXCEEDS	168		86		125	
50 PERCENT EXCEEDS	36		20		36	
90 PERCENT EXCEEDS	7.0		1.6		3.0	

e Estimated

PASKAMANSET RIVER NEAR SOUTH DARTMOUTH, MA 01105933



TAUNTON RIVER BASIN

01108000 TAUNTON RIVER NEAR BRIDGEWATER, MA

LOCATION.--Lat 41°56'02", long 70°57'25", Plymouth County, Hydrologic Unit 01090004, on right bank at bridge on Titicut Road, 1 mi upstream from Sawmill Brook, 3.5 mi northwest of Middleboro, and 4.0 mi southeast of Bridgewater.

DRAINAGE AREA.--258 mi².

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to April 1976, April 1985 to May 1988, October 1996 to curent year. Published as "at State Farm" October 1929 to September 1969, and as "at State Farm near Bridgewater" October 1969 to April 1976.

REVISED RECORDS.--WSP 781: 1934. WSP 1051: 1933. WSP 1201: 1931. WSP 1301: 1930(M), 1933(M), 1935(M). WDR MA-RI-84-1: Drainage area.

GAGE.--Water stage recorder. Datum of gage is 9.61 ft above sea level. Prior to October 1996, at sites 40 ft apart about 600 ft upstream: October 1929 to Sept. 30, 1931, inverted nonrecording gage with zero of gage at 10.02 ft; Oct. 1, 1931, to June 8, 1934, nonrecording gage, and June 9, 1934, to April 1976, April 1985 to May 1988, water-stage recorders, at present datum.

REMARKS.--Records good except those for estimated daily discharge, which are fair. Flow affected by diversions to and from basin for municipal supplies. Flow regulated by reservoirs and, prior to about 1975, by powerplants upstream. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--51 years (water years 1930-75, 1986-87, 1998-99), 475 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,980 ft³/s, Mar. 20, 1968, gage height, 14.48 ft; minimum, 8.0 ft³/s, Sept. 10, 1944; minimum daily, 9.0 ft³/s, Sept. 9-12, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,300 ft³/s, Feb. 4, gage height, 8.64 ft; minimum, 34 ft³/s, Sept. 3-6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	195	246	269	651	1400	847	287	210	88	90	39
2	116	189	230	205	626	1850	774	272	183	112	e77	38
3	103	189	219	226	1500	1840	710	264	166	79	e70	36
4	98	191	209	680	2160	1740	671	321	150	75	e68	35
5	93	182	199	637	2240	1690	626	541	134	72	67	35
6	89	175	192	501	1980	1560	586	668	123	67	65	36
7	87	174	188	452	1650	1520	560	611	116	126	57	58
8	90	175	184	362	1420	1440	529	544	107	107	55	74
9	288	165	211	401	1230	1300	503	573	94	86	60	85
10	473	154	208	585	1090	1170	504	522	96	79	56	87
11	677	230	201	512	962	1060	487	446	94	71	55	322
12	788	489	190	442	879	973	474	385	87	65	54	252
13	736	409	183	405	877	930	452	335	85	64	56	166
14	648	372	175	363	851	921	426	296	84	68	53	164
15	693	353	166	581	762	925	407	270	84	65	77	150
16	664	315	162	1320	714	990	394	249	79	62	82	347
17	575	284	158	1450	677	1070	478	233	77	58	67	732
18	502	304	168	1320	697	1150	497	220	78	55	65	697
19	431	286	160	1400	977	1120	468	214	75	58	60	549
20	369	272	161	1460	955	1030	441	252	72	168	54	453
21	327	302	158	1340	865	935	414	278	71	114	51	370
22	299	296	156	1190	777	906	393	248	70	84	52	295
23	278	276	146	1070	655	925	402	222	68	98	53	247
24	250	260	135	1010	592	882	463	380	68	156	49	205
25	233	240	135	1270	566	1030	431	661	66	105	47	174
26	221	234	128	1310	544	1020	404	611	63	374	45	149
27	213	312	128	1180	581	942	381	507	62	412	46	133
28	207	295	131	1060	623	945	355	445	60	250	46	120
29	218	274	172	942	---	1080	332	367	61	195	44	112
30	213	259	344	813	---	1020	311	298	61	143	41	117
31	203	---	337	713	---	922	---	247	---	107	39	---
TOTAL	10290	7851	5780	25469	28101	36286	14720	11767	2844	3663	1801	6277
MEAN	332	262	186	822	1004	1171	491	380	94.8	118	58.1	209
MAX	788	489	344	1460	2240	1850	847	668	210	412	90	732
MIN	87	154	128	205	544	882	311	214	60	55	39	35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1999, BY WATER YEAR (WY)

MEAN	229	408	562	630	717	959	856	537	324	188	152	178
MAX	1214	1309	1614	1346	1404	1714	1895	1378	1106	1021	1049	840
(WY)	1997	1956	1946	1976	1998	1968	1987	1954	1998	1938	1955	1933
MIN	36.9	56.6	82.7	122	204	495	192	196	93.8	36.4	28.0	32.9
(WY)	1942	1966	1966	1966	1944	1944	1966	1965	1965	1957	1934	1957

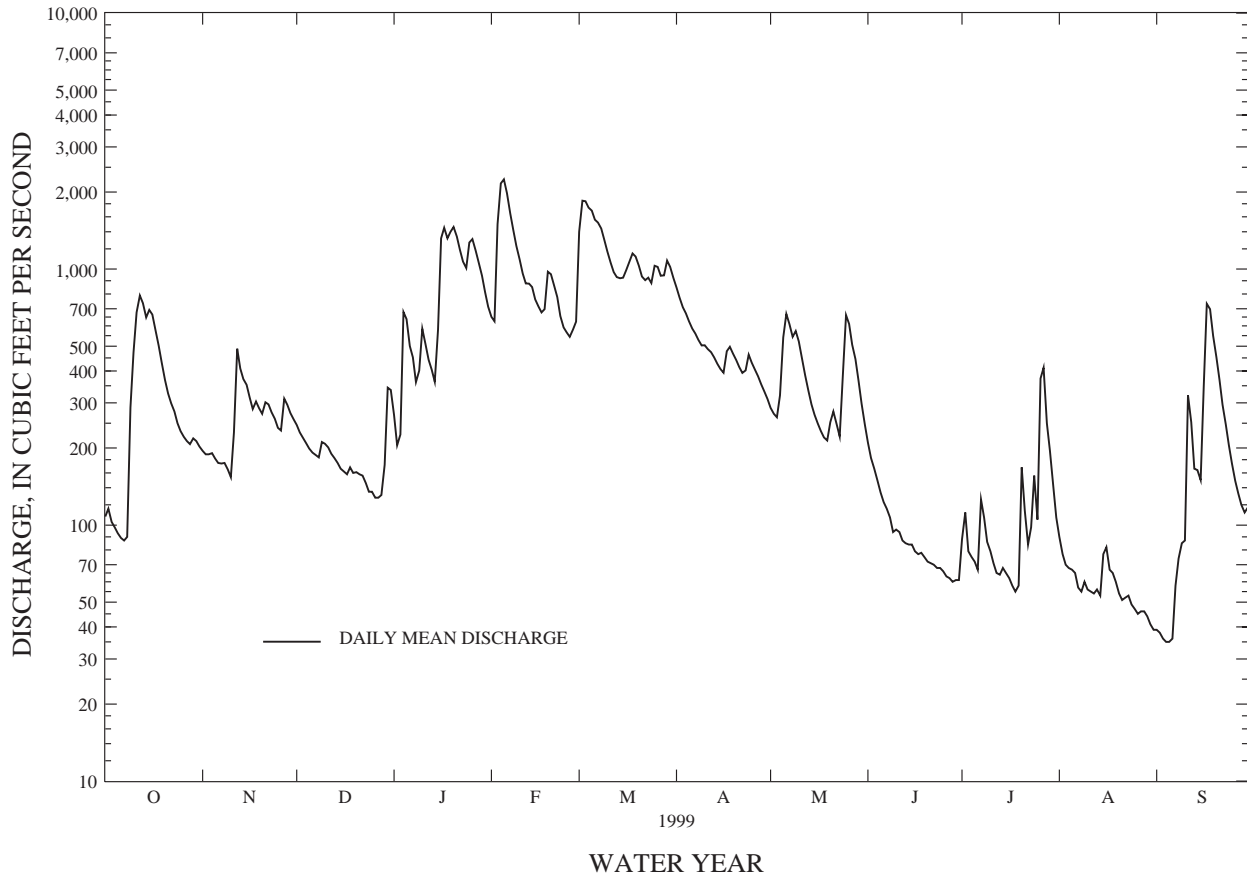
TAUNTON RIVER BASIN

01108000 TAUNTON RIVER NEAR BRIDGEWATER, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1930 - 1999	
ANNUAL TOTAL	282222		154849		475	
ANNUAL MEAN	773		424		761	1998
HIGHEST ANNUAL MEAN					171	1966
LOWEST ANNUAL MEAN					4930	Mar 20 1968
HIGHEST DAILY MEAN	3220	Feb 26	2240	Feb 5	9.0	Sep 9 1944
LOWEST DAILY MEAN	87	Oct 7	35	Sep 4	11	Sep 6 1944
ANNUAL SEVEN-DAY MINIMUM	97	Oct 2	37	Aug 31	14.48	Mar 20 1968
INSTANTANEOUS PEAK FLOW			2300	Feb 4	8.0	Sep 10 1944
INSTANTANEOUS PEAK STAGE			8.64	Feb 4		
INSTANTANEOUS LOW FLOW			34	Sep 3		
10 PERCENT EXCEEDS	1800		1030			
50 PERCENT EXCEEDS	500		264			
90 PERCENT EXCEEDS	154		63			

e Estimated

TAUNTON RIVER NEAR BRIDGEWATER, MA 01108000



TAUNTON RIVER BASIN

01108000 TAUNTON RIVER NEAR BRIDGEWATER, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953, 1967-74, 1997-99.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM HG) (00025)	OXYGEN, DIS-SOLVED OF (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)
NOV												
16...	1030	318	184	6.4	10.5	8.0	110	2.4	758	9.2	78	<10
AUG												
09...	1330	61	365	7.6	24.5	24.0	45	--	752	6.4	77	21
SEP												
13...	1245	165	233	6.7	27.0	20.5	39	--	764	5.6	62	16
27...	1230	135	277	6.0	22.0	17.0	70	--	769	7.2	74	27

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, UM-MF (COLS./100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL /100 ML) (31633)	HARD-NESS TOTAL AS CACO3 (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD HCO3 (MG/L AS) (00453)
NOV											
16...	1.0	1,900	1,300	--	--	--	--	--	--	--	15
AUG											
09...	2.0	57	110	59	18	3.6	44	59	2	5.4	43
SEP											
13...	2.0	380	K170	46	13	3.4	23	50	1	3.2	22
27...	1.0	73	K120	48	14	3.4	33	58	2	3.9	26

DATE	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	HY-DROXIDE WATER DIS IT FIELD (MG/L AS OH) (71834)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SOLIDS, CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
NOV											
16...	0	0	13	--	--	--	--	10	132	0.039	0.518
AUG											
09...	0	0	35	18	67	0.10	190	4	221	.013	2.75
SEP											
13...	0	0	18	30	35	<.10	124	3	154	.011	1.19
27...	0	0	21	23	51	<.10	148	9	184	.021	1.49

TAUNTON RIVER BASIN

01108000 TAUNTON RIVER NEAR BRIDGEWATER, MA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC TOTAL (UG/L AS AS) (01002)
NOV 16...	0.397	0.51	0.67	1.1	1.6	0.163	0.091	180	75	<1.0	<1
AUG 09...	.026	.03	.60	.63	3.4	.158	.071	70	--	--	<1
SEP 13...	.076	.10	.58	.65	1.8	.130	.063	140	--	--	1
27...	.066	.08	.84	.91	2.4	.156	.055	160	--	--	E1

DATE	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
NOV 16...	<1	14	<1.0	<1.0	<1.0	<1.0	2.0	790	<1.0	57	61
AUG 09...	--	--	--	<1.0	--	--	--	770	<1.0	150	--
SEP 13...	--	--	--	<1.0	--	--	--	600	<1.0	270	--
27...	--	--	--	<.14	--	--	--	1,100	.73	160	--

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	PHENOLS TOTAL (UG/L) (32730)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 16...	<0.10	<1.0	1.5	<1	<0.20	12	<1.0	13	<4	8	75
AUG 09...	<.10	--	--	--	<.20	--	--	7.6	<4	6	86
SEP 13...	<.10	--	--	--	<.20	--	--	7.8	<4	9	95
27...	<.10	--	--	--	<.20	--	--	11	<4	10	93

TAUNTON RIVER BASIN

01109000 WADING RIVER NEAR NORTON, MA
(National Water Quality Assessment Site)

LOCATION.--Lat 41°56'51", long 71°10'38", Bristol County, Hydrologic Unit 01090004, on left bank 200 ft downstream from bridge on State Highway 140, 0.9 mi upstream from confluence with Rumford River, and 1.5 mi southeast of Norton.

DRAINAGE AREA.--43.3 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge: June 1925 to current year.
Water-quality records: Water year 1967-68, 1999.

REVISED RECORDS.--WSP 871: 1938. WSP 1301: 1929-33(M). WSP 1621: 1925-58 (monthly runoff). WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 55.14 ft above sea level. Prior to Oct. 1, 1930, nonrecording gage at same site at datum 0.62 ft higher and Oct. 1, 1930, to May 5, 1933, at same site at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated to some extent by Lake Mirimichi and other lakes and reservoirs upstream. Diversion upstream for municipal supply of Attleboro and small diversions to and from basin for other municipal supplies. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--74 years, 73.7 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,460 ft³/s, Mar. 19, 1968; maximum gage height, 11.47 ft, Mar. 19, 1968, June 14, 1998; minimum discharge, 0.3 ft³/s, Sept. 10, 1926.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 460 ft³/s, Feb. 3, gage height, 8.86 ft; minimum, 1.5 ft³/s, Aug. 3-5, 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	25	38	36	119	265	107	39	37	3.5	1.9	2.9
2	12	24	35	e28	121	319	101	37	31	3.0	1.8	2.8
3	12	22	33	40	364	247	95	35	27	3.6	1.7	2.7
4	11	20	31	125	391	249	89	37	24	5.4	1.6	2.7
5	9.6	19	28	146	308	250	83	48	21	6.0	4.4	2.7
6	8.8	15	27	122	272	213	79	53	18	5.2	4.2	2.7
7	8.4	14	27	105	234	213	75	50	17	4.5	2.0	3.1
8	8.3	14	26	111	207	194	71	49	15	3.8	2.1	2.9
9	24	14	30	91	182	172	68	59	13	3.2	2.2	2.8
10	62	14	29	112	164	159	67	53	11	2.8	1.7	12
11	92	29	28	101	149	142	65	45	10	2.6	1.7	74
12	106	53	26	82	137	134	63	37	9.0	2.4	1.7	62
13	91	59	25	73	140	130	61	28	8.4	2.5	1.7	25
14	79	49	23	68	135	126	57	27	7.9	2.4	1.7	15
15	79	41	22	109	117	126	55	27	7.5	2.3	4.2	12
16	75	36	22	239	108	133	52	25	7.5	2.3	6.5	57
17	62	35	21	241	105	136	60	23	6.8	2.3	6.6	180
18	53	38	21	212	115	160	67	22	6.6	2.2	5.0	142
19	46	39	21	299	157	148	63	22	6.1	2.8	3.7	85
20	39	37	21	311	153	134	58	30	5.5	3.5	3.1	62
21	34	42	21	250	134	121	55	37	5.0	3.1	3.0	46
22	31	43	22	215	116	124	53	32	4.7	2.5	3.0	36
23	28	37	22	196	e94	136	54	28	4.2	2.5	3.0	31
24	25	34	21	204	95	131	62	66	3.7	2.5	2.9	29
25	23	31	20	293	89	140	61	124	3.1	2.5	2.9	26
26	21	32	19	264	84	135	55	112	2.8	2.5	3.5	22
27	20	46	17	221	93	125	51	89	2.7	2.4	3.6	20
28	21	52	17	197	99	130	48	74	2.5	2.2	3.6	17
29	23	47	19	175	---	146	45	65	2.5	2.0	3.4	16
30	24	42	35	151	---	131	42	54	2.5	1.9	2.9	18
31	24	---	40	130	---	115	---	45	---	1.9	2.9	---
TOTAL	1164.1	1003	787	4947	4482	5084	1962	1472	323.0	92.3	94.2	1012.3
MEAN	37.6	33.4	25.4	160	160	164	65.4	47.5	10.8	2.98	3.04	33.7
MAX	106	59	40	311	391	319	107	124	37	6.0	6.6	180
MIN	8.3	14	17	28	84	115	42	22	2.5	1.9	1.6	2.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 1999, BY WATER YEAR (WY)

	30.5	60.5	91.3	102	108	155	136	82.7	53.0	24.9	21.6	21.0
MEAN	30.5	60.5	91.3	102	108	155	136	82.7	53.0	24.9	21.6	21.0
MAX	143	210	257	353	232	354	323	227	284	225	175	106
(WY)	1956	1956	1946	1979	1970	1936	1987	1954	1998	1938	1955	1954
MIN	3.11	5.21	10.4	13.7	26.1	65.6	35.0	28.6	9.79	2.98	1.91	1.76
(WY)	1958	1958	1966	1981	1980	1985	1985	1965	1957	1999	1993	1930

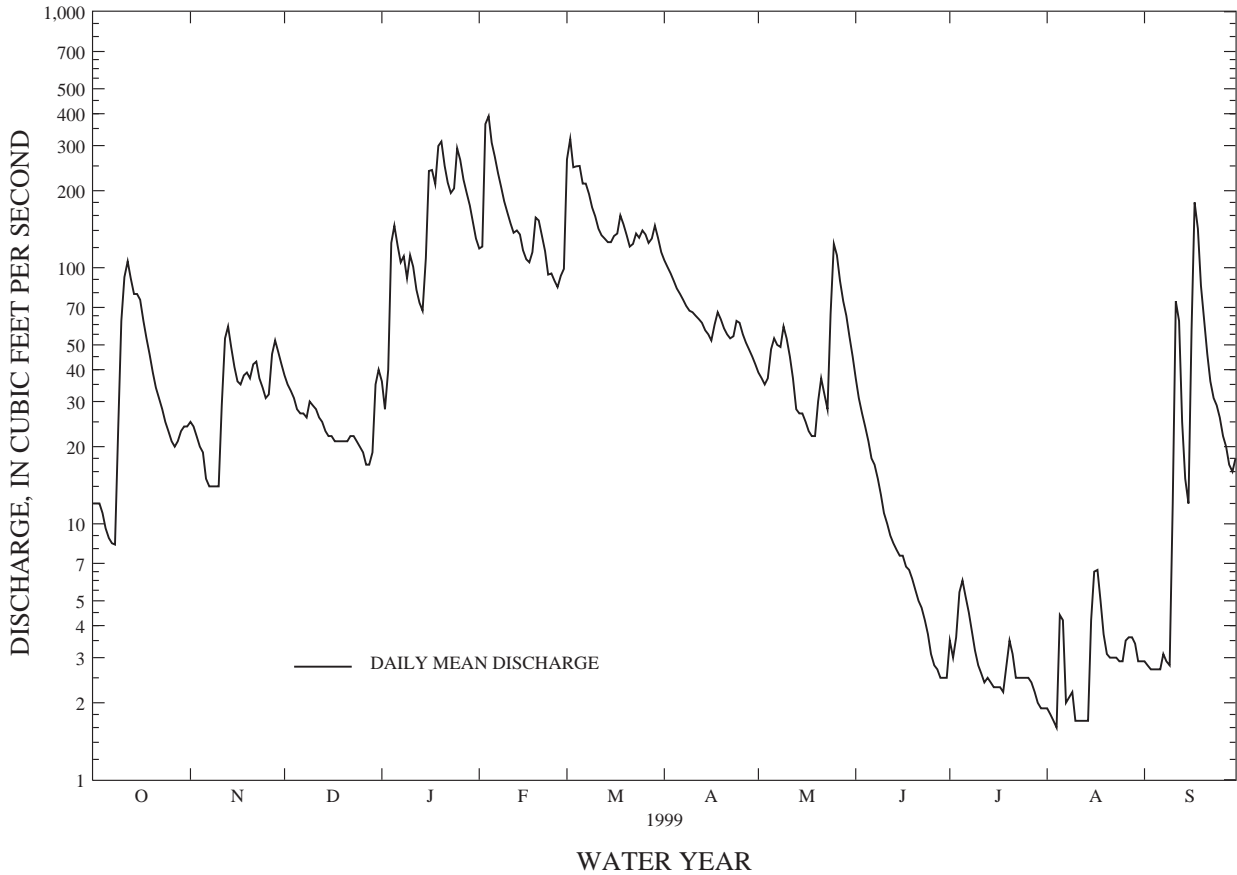
TAUNTON RIVER BASIN

01109000 WADING RIVER NEAR NORTON, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1925 - 1999	
ANNUAL TOTAL	44671.8		22422.9		73.7	
ANNUAL MEAN	122		61.4		28.8	
HIGHEST ANNUAL MEAN					123	1984
LOWEST ANNUAL MEAN					28.8	1966
HIGHEST DAILY MEAN	1110	Jun 15	391	Feb 4	1280	Mar 19 1968
LOWEST DAILY MEAN	8.0	Aug 16	1.6	Aug 4	.30	Sep 10 1926
ANNUAL SEVEN-DAY MINIMUM	9.5	Aug 10	1.8	Jul 29	.62	Aug 30 1993
INSTANTANEOUS PEAK FLOW			460	Feb 3	1460	Mar 19 1968
INSTANTANEOUS PEAK STAGE			8.86	Feb 3	11.47	Mar 19 1968
INSTANTANEOUS LOW FLOW			1.5	Aug 3	.30	Sep 10 1926
10 PERCENT EXCEEDS	287		152		169	
50 PERCENT EXCEEDS	59		34		51	
90 PERCENT EXCEEDS	14		2.7		6.8	

e Estimated

WADING RIVER NEAR NORTON, MA 01109000



TAUNTON RIVER BASIN

01109000 WADING RIVER NEAR NORTON, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967-68, 1999.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT									
20...	0940	39	181	6.9	11.8	12.9	8.3	8.0	37
NOV									
19...	0950	39	184	7.6	5.2	5.0	10.8	8.3	35
DEC									
10...	0810	30	184	7.0	.1	5.0	10.9	8.3	36
JAN									
07...	1005	106	170	6.7	4.5	.1	13.5	7.1	37
FEB									
10...	1020	165	165	6.7	9.1	3.5	13.8	5.8	33
MAR									
03...	0900	251	160	6.8	5.3	3.0	12.5	5.2	34
APR									
16...	1045	52	203	7.0	12.0	10.9	10.2	8.0	44
MAY									
03...	0910	35	211	7.1	12.9	14.1	8.5	8.8	44
JUN									
10...	0950	11	245	7.2	19.3	19.3	6.7	10	53
JUL									
05...	0745	6.1	238	7.3	27.8	24.5	4.5	10	46
AUG									
10...	1030	1.8	235	7.0	20.6	19.0	5.5	10	48
16...	0945	6.4	220	7.1	22.3	19.5	5.5	9.4	42
SEP									
09...	1045	2.7	290	6.9	27.2	23.5	5.5	11	64
17...	0830	177	197	6.8	15.7	19.1	7.2	9.9	31

TAUNTON RIVER BASIN

01109000 WADING RIVER NEAR NORTON, MA--Continued

DATE	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L SIO2) (70300)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE, DIS-SOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT										
20...	<0.10	390	1.9	56	1.9	125	9.0	24	9.3	0.034
NOV										
19...	<.10	280	2.0	42	1.8	126	9.5	21	13	.034
DEC										
10...	<.10	280	2.0	58	1.7	125	8.2	21	11	.047
JAN										
07...	<.10	180	1.8	100	1.7	109	7.2	22	9.5	.043
FEB										
10...	<.10	120	1.4	27	.90	102	6.5	21	9.6	.026
MAR										
03...	<.10	110	1.2	30	1.0	100	5.0	20	7.7	.023
APR										
16...	<.10	190	1.9	62	1.6	124	2.5	26	8.8	<.020
MAY										
03...	<.10	380	2.1	122	1.5	106	2.4	27	9.0	.051
JUN										
10...	<.10	480	2.2	105	1.5	154	4.6	30	7.7	.064
JUL										
05...	.12	270	2.3	170	2.0	159	4.5	27	8.2	.062
AUG										
10...	.14	240	2.4	174	2.3	121	2.1	29	8.2	<.020
16...	.10	400	2.1	129	2.3	128	2.4	26	9.0	.042
SEP										
09...	<.10	91	2.7	126	2.4	158	1.3	36	13	.027
17...	<.10	170	2.2	191	2.0	127	7.2	22	31	.025

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDEDED TOTAL (MG/L AS C) (00689)	SEDIMENT, SUSPENDEDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
20...	0.51	0.56	<0.010	0.011	0.024	0.013	14	0.20	7	52
NOV										
19...	.35	.46	.010	.019	.010	.011	9.5	.30	9	53
DEC										
10...	.31	.41	<.010	<.050	.018	.014	8.1	--	3	83
JAN										
07...	.29	.38	<.010	.011	.023	<.010	7.7	.20	2	78
FEB										
10...	.21	.26	<.010	.006	.009	<.010	5.6	<.20	1	75
MAR										
03...	.19	.27	.019	.004	.013	<.010	5.9	<.20	4	60
APR										
16...	.27	.38	<.010	.007	.017	.012	6.1	.20	1	83
MAY										
03...	.34	.44	<.010	.012	.020	.016	7.0	--	2	67
JUN										
10...	.41	.40	<.010	.023	.038	.023	7.1	.30	6	65
JUL										
05...	.50	.49	<.010	.020	.091	.017	7.0	.40	8	56
AUG										
10...	.27	.38	<.010	.029	.015	<.010	5.7	.30	3	70
16...	.34	.52	<.010	.023	.044	.011	5.8	.30	2	71
SEP										
09...	.31	.38	<.010	.008	.023	<.010	4.9	<.20	6	65
17...	.43	.66	<.010	.020	.060	<.010	8.2	1.1	13	76

TAUNTON RIVER BASIN

01109060 THREEMILE RIVER AT NORTH DIGHTON, MA

LOCATION.--Lat 41°51'58", long 71°07'24", Bristol County, Hydrologic Unit 01090004, on right bank 800 ft downstream from Warner Boulevard at North Dighton and 1.4 mi upstream from mouth.

DRAINAGE AREA.--84.3 mi².

REVISED RECORDS.--WDR MA-RI-84-1: Drainage area.

PERIOD OF RECORD.--Discharge: July 1966 to current year.

Water-quality records: Water years 1967-68.

GAGE.--Water-stage recorder. Datum of gage is 11.38 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by Lake Mirimichi and other lakes and reservoirs upstream. Diversions to and from basin upstream for municipal supplies may be compensating.

AVERAGE DISCHARGE.--33 years, 168 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,870 ft³/s, June 16, 1998, gage height, 8.89 ft; minimum, 1.9 ft³/s, Sept. 12, 1995, but was less during period of unusual regulation on Aug. 4, 5, 1997 (gage height below minimum recordable at this station).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 949 ft³/s, Feb. 4, gage height, 5.77 ft; minimum, 2.1 ft³/s, Sept. 9, 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	49	80	77	250	398	225	77	78	13	6.9	5.8
2	31	48	75	57	251	631	204	74	71	20	6.1	5.7
3	30	48	70	82	601	632	189	72	66	18	5.1	5.6
4	30	46	65	188	888	557	179	82	61	18	4.9	5.7
5	28	43	62	225	800	535	167	96	56	20	7.4	5.8
6	27	42	58	223	643	501	156	98	54	17	19	7.3
7	26	40	58	239	540	476	147	93	52	16	14	13
8	28	39	58	207	461	438	140	89	49	13	11	14
9	53	37	63	198	399	388	134	109	46	11	9.9	15
10	89	37	63	204	351	347	130	105	44	11	7.8	17
11	148	63	60	206	313	315	123	90	39	10	6.4	114
12	165	108	57	186	284	285	122	81	28	9.2	6.6	133
13	169	112	55	163	284	270	116	70	25	12	6.5	72
14	162	105	53	145	277	257	108	63	23	12	6.5	42
15	186	90	51	222	258	259	102	62	22	11	12	33
16	169	79	49	376	232	269	100	59	20	9.3	15	91
17	146	75	48	497	215	292	119	58	19	8.1	12	188
18	121	81	49	478	230	302	124	56	19	7.4	12	286
19	103	79	48	500	273	311	120	56	18	13	9.3	296
20	90	77	47	579	307	289	110	72	17	21	7.8	202
21	79	84	47	550	298	260	103	75	16	14	6.8	144
22	71	85	48	460	262	251	98	69	16	11	8.0	107
23	64	80	49	399	225	249	104	65	15	11	8.6	86
24	59	73	48	406	197	262	118	110	15	15	7.5	73
25	56	68	46	510	189	278	113	e163	13	14	6.6	64
26	53	67	44	566	182	274	105	183	13	10	6.2	58
27	49	86	43	493	180	257	98	156	12	10	8.3	52
28	48	95	43	420	204	263	91	125	12	9.5	8.9	47
29	52	93	49	376	---	274	90	107	12	8.1	7.8	40
30	52	85	79	327	---	277	82	97	13	7.3	6.5	50
31	51	---	82	278	---	253	---	87	---	7.2	5.9	---
TOTAL	2469	2114	1747	9837	9594	10650	3817	2799	944	387.1	267.3	2272.9
MEAN	79.6	70.5	56.4	317	343	344	127	90.3	31.5	12.5	8.62	75.8
MAX	186	112	82	579	888	632	225	183	78	21	19	296
MIN	26	37	43	57	180	249	82	56	12	7.2	4.9	5.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1999, BY WATER YEAR (WY)

MEAN	77.6	139	217	233	249	324	298	188	137	56.1	53.5	48.6
MAX	298	407	534	683	466	580	701	408	614	280	170	128
(WY)	1990	1990	1973	1979	1970	1983	1987	1967	1998	1998	1986	1989
MIN	10.9	32.7	40.1	29.8	55.7	136	84.5	83.4	25.6	12.1	8.62	10.9
(WY)	1998	1994	1981	1981	1980	1985	1985	1981	1991	1991	1999	1993

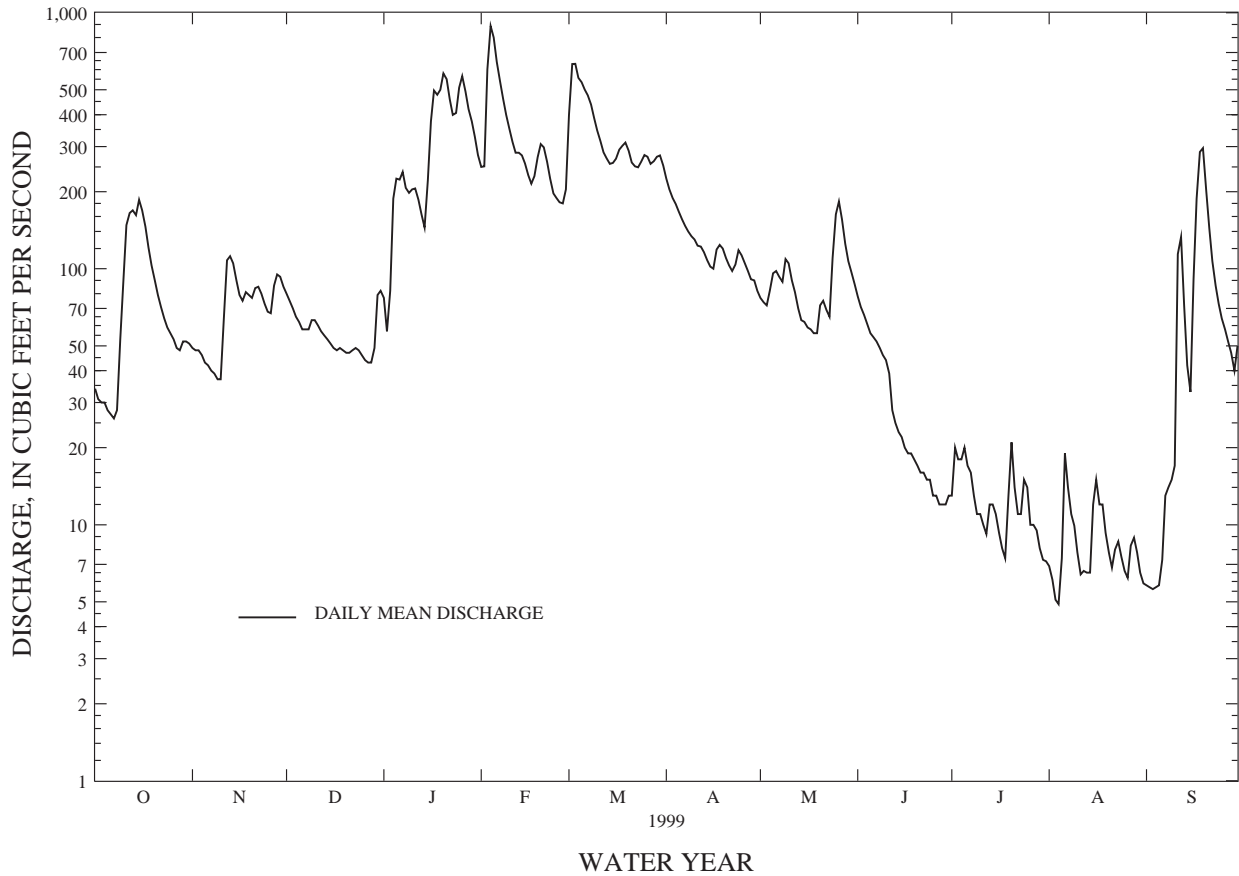
TAUNTON RIVER BASIN

01109060 THREEMILE RIVER AT NORTH DIGHTON, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1966 - 1999	
ANNUAL TOTAL	93635		46898.3			
ANNUAL MEAN	257		128		168	
HIGHEST ANNUAL MEAN					255	
LOWEST ANNUAL MEAN					64.4	
HIGHEST DAILY MEAN	2680	Jun 16	888	Feb 4	2680	Jun 16 1998
LOWEST DAILY MEAN	20	Aug 16	4.9	Aug 4	1.3	Aug 5 1997
ANNUAL SEVEN-DAY MINIMUM	23	Aug 10	5.9	Aug 30	2.9	Sep 7 1995
INSTANTANEOUS PEAK FLOW			949	Feb 4	2870	Jun 16 1998
INSTANTANEOUS PEAK STAGE			5.77	Feb 4	8.89	Jun 16 1998
INSTANTANEOUS LOW FLOW			2.1	Sep 9		
10 PERCENT EXCEEDS	579		309		382	
50 PERCENT EXCEEDS	131		73		113	
90 PERCENT EXCEEDS	39		9.4		21	

e Estimated

THREEMILE RIVER AT NORTH DIGHTON, MA 01109060



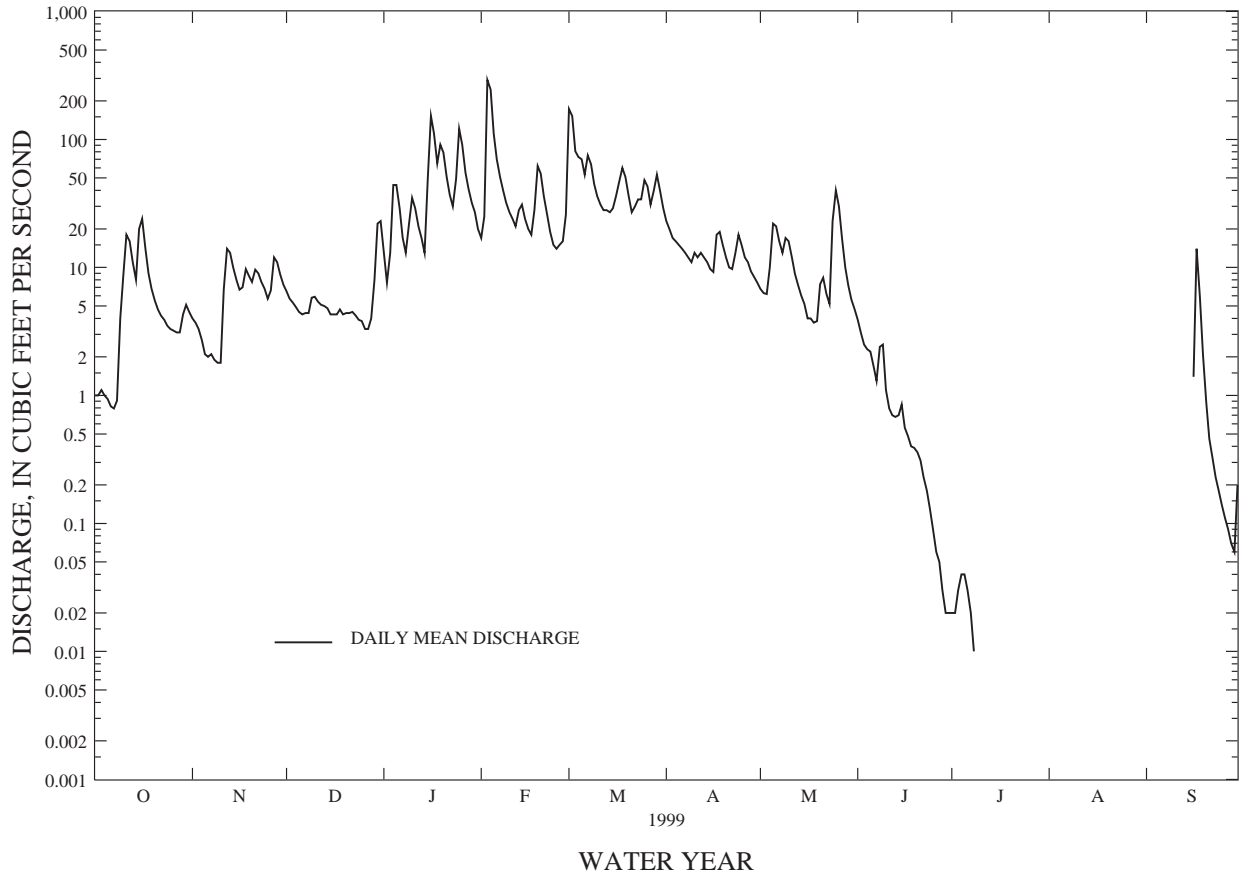
TAUNTON RIVER BASIN

01109070 SEGREGANSET RIVER NEAR DIGHTON, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1966 - 1999	
ANNUAL TOTAL	12605.97		5800.06			
ANNUAL MEAN	34.5		15.9		22.4	
HIGHEST ANNUAL MEAN					34.5 1998	
LOWEST ANNUAL MEAN					7.68 1981	
HIGHEST DAILY MEAN	543	Jun 16	291	Feb 3	670	Mar 18 1968
LOWEST DAILY MEAN	.27	Aug 15	.00	Jul 9	.00	Aug 13 1966
ANNUAL SEVEN-DAY MINIMUM	.35	Aug 10	.00	Jul 9	.00	Aug 13 1966
INSTANTANEOUS PEAK FLOW			373	Feb 3	867	Mar 18 1968
INSTANTANEOUS PEAK STAGE			5.17	Feb 3	7.51	Mar 18 1968
INSTANTANEOUS LOW FLOW			.00	Jul 8	.00	Aug 13 1966
ANNUAL RUNOFF (CFSM)	3.26		1.50		2.12	
ANNUAL RUNOFF (INCHES)	44.24		20.35		28.76	
10 PERCENT EXCEEDS	83		40		51	
50 PERCENT EXCEEDS	11		5.6		12	
90 PERCENT EXCEEDS	.98		.00		.45	

e Estimated

SEGREGANSET RIVER NEAR DIGHTON, MA 01109070



TEN MILE RIVER BASIN

01109403 TEN MILE RIVER AT PAWTUCKET AVENUE AT EAST PROVIDENCE, RI

LOCATION.--Lat 41°49'51", long 71°21'06", Providence County, Hydrologic Unit 01090004, on right bank on upstream side of bridge on State Highways 1A and 114, 0.3 mi south of junction with State Highway 114A, and 0.7 mi upstream from mouth.

DRAINAGE AREA.--53.1 mi².

PERIOD OF RECORD.--October 1986 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharge, which are fair. Flow affected by regulation and diversions from reservoirs upstream.

AVERAGE DISCHARGE.--13 years, 107 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft³/s, June 15, 1998, gage height, 8.50 ft; minimum, 5.0 ft³/s, Apr. 19, 1991; minimum daily, 6.6 ft³/s, Apr. 19, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 738 ft³/s, Feb. 4, gage height, 6.35 ft; minimum, 9.8 ft³/s, Aug. 3, 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	43	60	55	124	366	138	52	52	23	13	13
2	33	42	54	45	149	481	130	52	51	28	12	13
3	32	41	52	96	537	337	118	52	49	32	11	12
4	30	40	49	269	652	310	118	57	47	33	11	12
5	29	40	44	233	421	303	105	75	41	33	11	13
6	26	39	46	151	321	261	101	69	40	25	15	13
7	24	37	46	104	281	277	96	63	40	21	18	e18
8	30	37	47	86	250	247	88	62	39	18	23	e25
9	97	37	53	102	221	210	87	71	38	16	21	e20
10	126	36	50	139	199	190	91	62	34	17	15	e32
11	140	88	48	117	176	177	81	53	32	17	15	e270
12	110	136	58	95	160	169	90	50	32	15	15	e140
13	87	102	81	86	173	160	82	47	31	18	15	e57
14	86	86	64	82	162	152	77	44	35	17	16	44
15	103	78	50	162	140	176	75	44	38	17	45	40
16	82	69	47	377	130	174	74	41	32	16	37	195
17	67	72	46	319	123	187	93	40	31	15	25	439
18	61	72	46	258	151	202	91	41	32	14	21	257
19	57	64	42	463	220	192	82	47	29	19	17	118
20	52	60	43	472	204	164	77	77	27	33	15	89
21	50	64	41	309	165	145	73	61	29	25	18	89
22	52	59	45	237	143	174	73	49	29	18	16	94
23	48	54	42	201	119	201	80	53	26	17	16	83
24	48	53	44	235	111	189	88	158	24	18	13	73
25	48	49	40	376	115	199	78	210	21	19	15	68
26	48	62	38	339	111	179	71	181	22	17	16	61
27	46	91	37	259	109	159	67	114	20	16	19	55
28	47	77	38	218	130	175	60	88	19	14	19	53
29	55	68	44	188	---	201	59	76	20	13	18	49
30	48	61	71	161	---	179	56	66	21	13	15	62
31	46	---	66	138	---	152	---	54	---	13	14	---
TOTAL	1841	1857	1532	6372	5797	6688	2599	2209	981	610	550	2507
MEAN	59.4	61.9	49.4	206	207	216	86.6	71.3	32.7	19.7	17.7	83.6
MAX	140	136	81	472	652	481	138	210	52	33	45	439
MIN	24	36	37	45	109	145	56	40	19	13	11	12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1999, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	63.5	97.3	138	146	149	181	184	114	75.0	47.8	48.9	49.7	
MAX	171	223	304	206	261	348	407	206	317	181	119	94.4	
(WY)	1990	1990	1993	1999	1988	1994	1987	1998	1998	1998	1989	1987	
MIN	23.1	44.8	49.4	41.4	60.5	90.2	78.0	60.4	32.1	19.7	16.6	22.3	
(WY)	1994	1994	1999	1989	1989	1989	1995	1992	1991	1999	1993	1993	

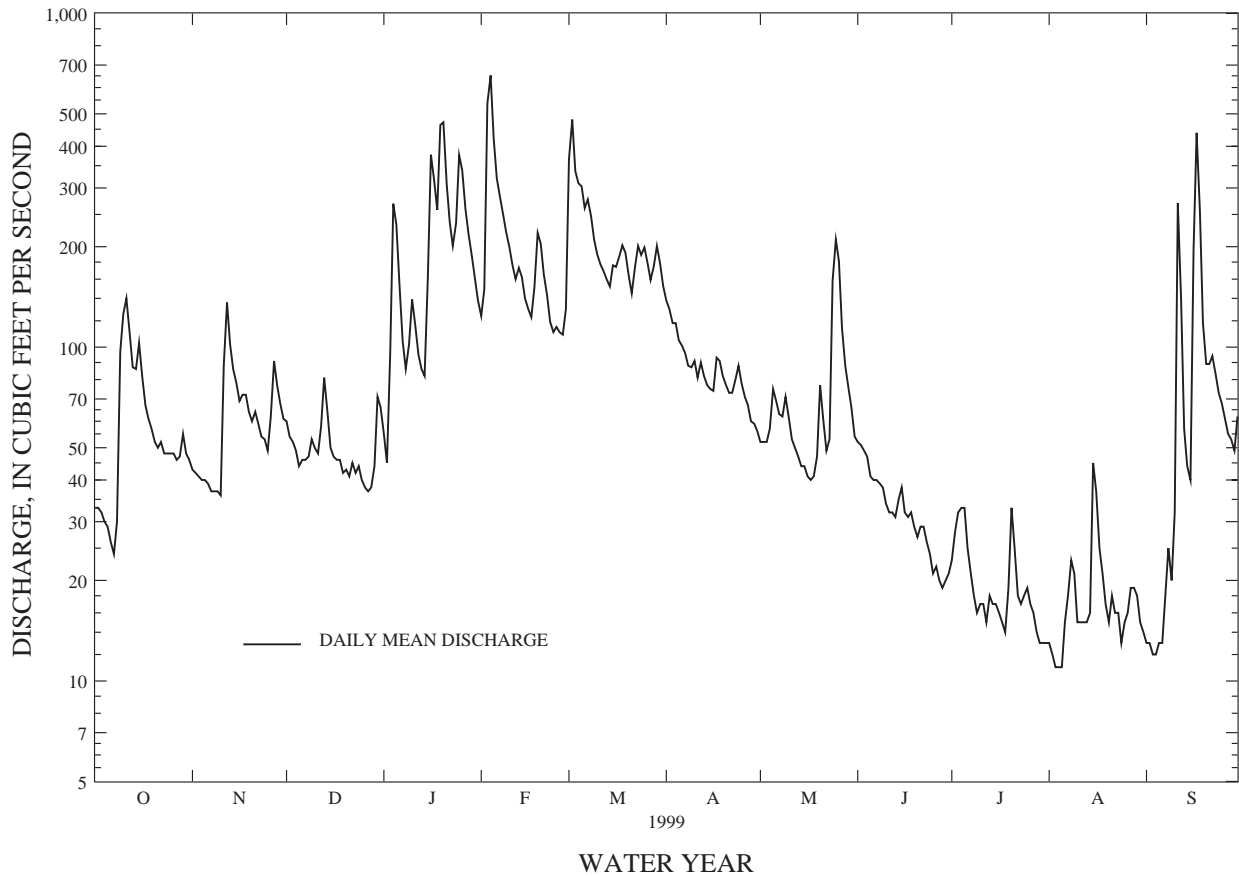
TEN MILE RIVER BASIN

01109403 TEN MILE RIVER AT PAWTUCKET AVENUE AT EAST PROVIDENCE, RI--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1987 - 1999	
ANNUAL TOTAL	56654		33543		107	
ANNUAL MEAN	155		91.9		154	
HIGHEST ANNUAL MEAN					1998	
LOWEST ANNUAL MEAN					1995	
HIGHEST DAILY MEAN	1380	Jun 15	652	Feb 4	1380	Jun 15 1998
LOWEST DAILY MEAN	24	Oct 7	11	Aug 3	6.6	Apr 19 1991
ANNUAL SEVEN-DAY MINIMUM	29	Oct 2	12	Jul 30	12	Aug 31 1993
INSTANTANEOUS PEAK FLOW			738	Feb 4	1450	Jun 15 1998
INSTANTANEOUS PEAK STAGE			6.35	Feb 4	8.50	Jun 15 1998
INSTANTANEOUS LOW FLOW			9.8	Aug 3	5.0	Apr 19 1991
10 PERCENT EXCEEDS	311		203		222	
50 PERCENT EXCEEDS	91		56		78	
90 PERCENT EXCEEDS	38		17		24	

e Estimated

TEN MILE RIVER, PAWTUCKET AVE. AT EAST PROVIDENCE, RI 01109403



BLACKSTONE RIVER BASIN

01110000 QUINSIGAMOND RIVER AT NORTH GRAFTON, MA

LOCATION.--Lat 42°13'49", long 71°42'41", Worcester County, Hydrologic Unit 01090003, on right bank 800 ft downstream from dam at outlet of Hovey Pond at North Grafton and 0.3 mi upstream from Bummatt Brook.

DRAINAGE AREA.--25.6 mi².

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 335 ft above sea level, from topographic map. Prior to Dec. 7, 1939, staff gage at same site and datum.

REMARKS.--Records good. Some regulation by Lake Quinsigamond 2.3 mi upstream and by ponds upstream.

AVERAGE DISCHARGE.--60 years, 41.3 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 820 ft³/s, Aug. 20, 1955, gage height, 5.15 ft; no flow Aug. 6-9, 22, 1966 (caused by unusual regulation), Sept. 13-17, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 147 ft³/s, Feb. 3, gage height, 2.41 ft; minimum daily, 0.04 ft³/s, Aug. 3-10, 19, 20, 30, 31, Sept. 1, 2, 4, 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	5.8	18	9.2	45	89	53	18	12	4.7	0.06	0.04
2	4.5	6.1	13	8.2	51	101	49	17	11	7.7	.05	.04
3	3.3	5.3	12	16	142	87	46	17	10	8.8	.04	.05
4	2.3	4.5	12	41	132	112	47	18	8.8	9.6	.04	.04
5	1.9	4.1	10	35	121	121	43	22	6.6	9.7	.04	.04
6	1.8	3.8	8.7	28	98	100	39	23	5.0	8.1	.04	.07
7	1.2	3.9	9.8	25	84	96	40	22	4.3	10	.04	.07
8	2.2	3.5	10	21	72	67	38	22	4.2	7.9	.04	.07
9	30	3.4	14	32	63	75	34	24	3.6	5.6	.04	.06
10	43	3.1	14	51	59	65	34	23	2.5	5.2	.04	2.2
11	80	6.8	14	41	52	62	31	20	1.8	4.4	.05	20
12	69	9.7	11	35	49	59	31	18	1.6	2.8	.05	17
13	54	8.7	10	31	54	55	33	16	1.6	2.0	.05	13
14	44	7.2	10	28	51	52	28	14	1.1	1.5	.09	8.7
15	47	7.9	9.1	35	45	60	26	13	1.7	1.1	.07	10
16	38	6.7	8.6	42	43	64	24	12	1.6	.87	.05	29
17	29	6.7	9.3	38	41	57	28	10	.90	.69	.05	123
18	24	7.8	13	38	48	60	29	10	.80	.50	.05	104
19	23	7.9	10	75	61	61	27	11	.63	.43	.04	74
20	19	8.7	9.2	71	57	56	25	18	.49	1.1	.04	47
21	16	12	9.2	61	52	51	24	18	.18	.76	.06	31
22	13	11	13	53	48	73	23	15	.23	.37	.06	26
23	11	9.0	12	51	42	90	27	14	.31	.13	.06	21
24	9.3	9.7	9.3	88	39	82	33	22	.63	.18	.05	15
25	8.6	7.4	8.8	140	39	79	28	34	.73	1.4	.05	14
26	7.9	12	8.3	118	42	71	26	30	.66	1.5	.05	12
27	7.2	28	7.8	95	39	64	24	26	.59	1.3	.07	9.2
28	6.9	22	7.5	79	39	68	21	22	.40	.95	.06	7.8
29	8.8	19	7.4	68	---	71	20	19	.18	.55	.05	6.9
30	8.4	17	9.7	57	---	69	19	17	.14	.29	.04	12
31	6.8	---	10	50	---	58	---	14	---	.13	.04	---
TOTAL	626.1	268.7	328.7	1560.4	1708	2275	950	579	84.27	100.25	1.56	603.28
MEAN	20.2	8.96	10.6	50.3	61.0	73.4	31.7	18.7	2.81	3.23	.050	20.1
MAX	80	28	18	140	142	121	53	34	12	10	.09	123
MIN	1.2	3.1	7.4	8.2	39	51	19	10	.14	.13	.04	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1999, BY WATER YEAR (WY)

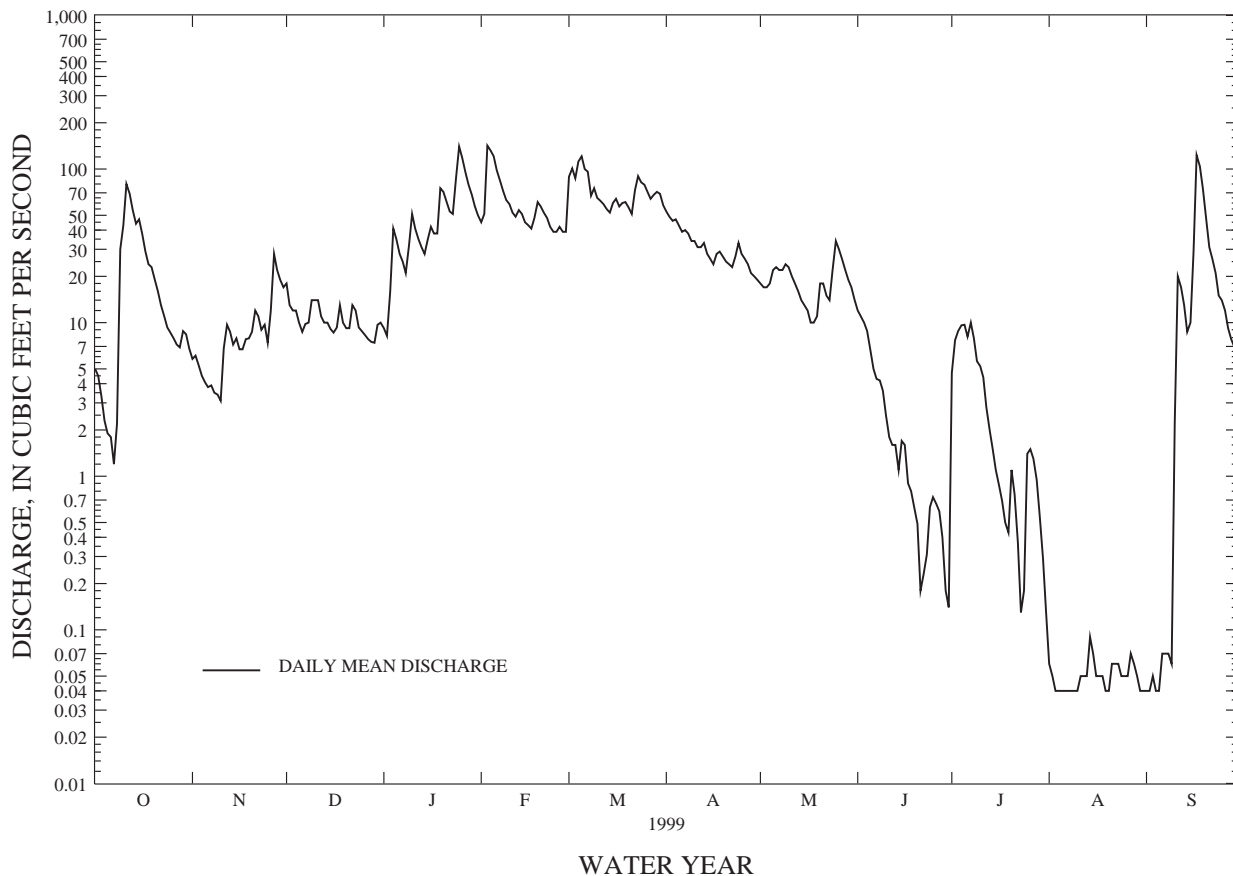
MEAN	20.7	32.7	43.8	48.4	54.2	78.1	76.7	52.0	37.5	19.7	17.2	15.4
MAX	94.3	149	109	159	141	154	202	92.3	143	64.2	169	130
(WY)	1956	1956	1997	1979	1970	1972	1987	1954	1982	1959	1955	1954
MIN	1.22	1.80	3.07	7.85	11.0	29.4	22.5	18.7	2.81	2.67	.050	.70
(WY)	1943	1942	1942	1981	1977	1989	1966	1999	1999	1965	1999	1995

BLACKSTONE RIVER BASIN

01110000 QUINSIGAMOND RIVER AT NORTH GRAFTON, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1940 - 1999	
ANNUAL TOTAL	17407.53	9085.26	41.3	
ANNUAL MEAN	47.7	24.9	68.4	1956
HIGHEST ANNUAL MEAN			16.5	1966
LOWEST ANNUAL MEAN			790	Aug 20 1955
HIGHEST DAILY MEAN	408 Mar 10	142 Feb 3	.00	Aug 6 1966
LOWEST DAILY MEAN	.88 Sep 20	.04 Aug 3	.01	Sep 11 1980
ANNUAL SEVEN-DAY MINIMUM	1.1 Sep 15	.04 Aug 3	820	Aug 20 1955
INSTANTANEOUS PEAK FLOW		147 Feb 3	5.15	Aug 20 1955
INSTANTANEOUS PEAK STAGE		2.41 Feb 3	87	
10 PERCENT EXCEEDS	110	66	31	
50 PERCENT EXCEEDS	33	13	5.5	
90 PERCENT EXCEEDS	4.5	.07		

QUINSIGAMOND RIVER AT NORTH GRAFTON, MA 01110000

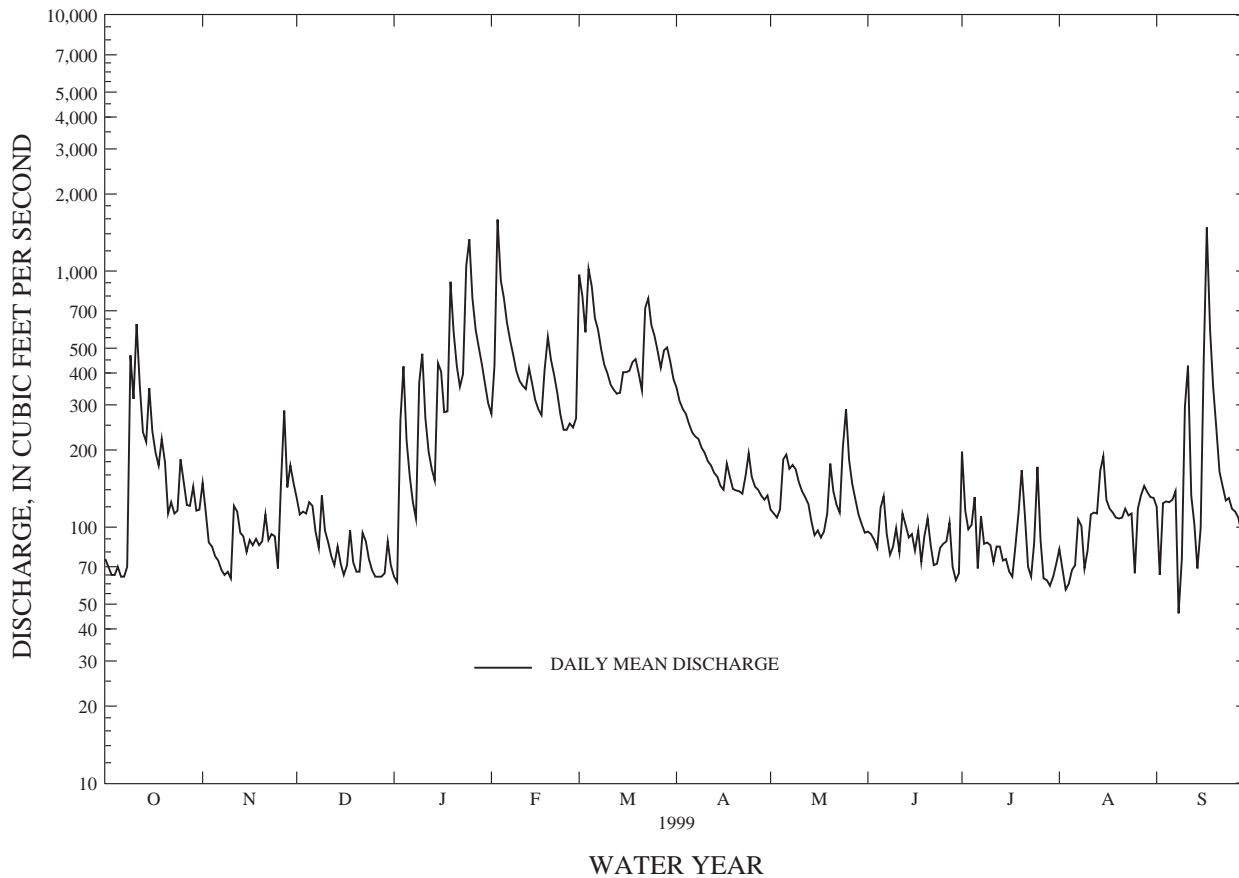


BLACKSTONE RIVER BASIN

01110500 BLACKSTONE RIVER AT NORTHBRIDGE, MA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1940 - 1999	
ANNUAL TOTAL	126767		77995			
ANNUAL MEAN	347		214		271	
HIGHEST ANNUAL MEAN					408 1955	
LOWEST ANNUAL MEAN					132 1965	
HIGHEST DAILY MEAN	3480	Mar 10	1590	Feb 3	8850	Aug 20 1955
LOWEST DAILY MEAN	34	Sep 17	46	Sep 8	2.0	Aug 29 1941
ANNUAL SEVEN-DAY MINIMUM	56	Sep 11	66	Jul 29	29	Aug 4 1965
INSTANTANEOUS PEAK FLOW			2520	Sep 17	16900	Aug 20 1955
INSTANTANEOUS PEAK STAGE			8.18	Sep 17	16.74	Aug 20 1955
10 PERCENT EXCEEDS	803		449		570	
50 PERCENT EXCEEDS	222		126		188	
90 PERCENT EXCEEDS	71		69		77	

BLACKSTONE RIVER AT NORTHBRIDGE, MA 01110500



BLACKSTONE RIVER BASIN

01111230 BLACKSTONE RIVER AT MILLVILLE, MA

LOCATION.--Lat 42°01'22", long 71°34'22", Worcester County, Hydrologic Unit 01090003, on railroad bridge, 0.6 mi southeast of Millville, and 1.6 mi upstream from Branch River. Prior to December 1980, at site 0.2 mi downstream.

DRAINAGE AREA.--277 mi².

PERIOD OF RECORD.--Water years 1969 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1969 to December 1980.
 pH: July 1969 to December 1980.
 WATER TEMPERATURE: July 1969 to December 1980.
 DISSOLVED OXYGEN: July 1969 to December 1980.

REMARKS.--Discharge computed by discharge measurements on the day of sampling. Instantaneous records are representative of the cross section while continuous records are based on point samples.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,000 µS/cm, May 30, June 3, 5, 1975; minimum, 49 µS/cm, June 30, 1973.
 pH: Maximum recorded, 9.3 units, Sept. 10, 1976; minimum, 4.3 units, Sept. 6, 1973.
 WATER TEMPERATURE: Maximum recorded, 29.0°C, July 29, 1970, July 21, 1977, July 23, 1978; minimum, 0.0°C on many days during winter periods.
 DISSOLVED OXYGEN: Maximum recorded, 14.9 mg/L, Feb. 25, 1971; minimum, 0.0 mg/L, July 12, 15-20, 26-30, Aug. 2, 3, 1971.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)
------	------	---	--	--	----------------------------------	------------------------------------	--	---------------------------	---------------------------------------	-----------------------------------	---

NOV	17...	0900	174	350	6.7	5.5	8.0	25	1.6	752	8.5	73	<10
AUG	10...	0900	38	499	6.9	12.2	20.0	80	--	752	6.8	76	33
SEP	14...	0945	201	300	7.0	19.5	19.5	16	--	759	7.1	78	15
	28...	0815	139	393	7.6	14.5	17.0	23	--	763	7.6	79	10

DATE	5 DAY OXYGEN DEMAND, BIO-CHEM-ICAL, (MG/L) (00310)	COLI-FORM, FECAL, UM-MF (COLS./100 ML) (31625)	E. COLI WHOLE TOTAL UREASE (COL / ML) (31633)	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM, AD-SORP-TION PERCENT RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE, WATER DIS IT (MG/L AS HCO3) (00453)	CAR-BONATE, WATER DIS IT (MG/L AS CO3) (00452)
------	--	--	---	---	---	---	---	--	--	---	--

NOV	17...	3.0	7,800	3,700	--	--	--	--	--	--	37	0	
AUG	10...	3.0	110	86	61	19	3.1	67	67	4	8.9	47	0
SEP	14...	2.0	390	K260	44	14	2.5	37	61	2	4.7	36	0
	28...	1.0	80	290	56	18	2.9	51	63	3	5.8	35	0

DATE	HY-DROXIDE DIS IT FIELD (MG/L AS OH) (71834)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SOLIDS, CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)
------	--	--	--	--	---	--	--	---	---	---	---	---

NOV	17...	0	30	--	--	--	--	5	197	0.118	1.86	2.14	2.8
AUG	10...	0	38	33	93	0.39	259	6	288	.020	2.42	<.020	--
SEP	14...	0	30	17	55	.19	153	5	175	.021	1.18	.093	.12
	28...	0	29	28	76	.25	209	3	227	.054	2.34	.053	.07

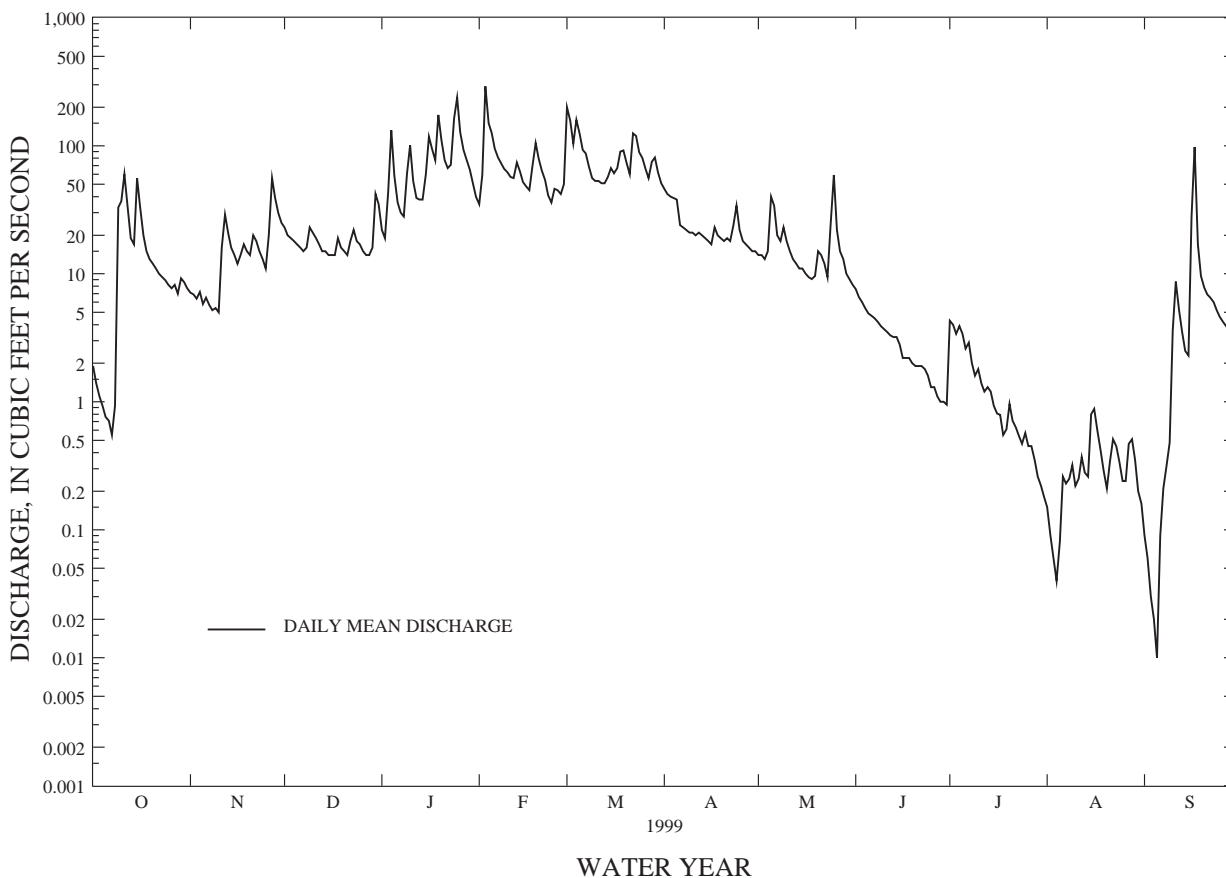
BLACKSTONE RIVER BASIN

01111300 NIPMUC RIVER NEAR HARRISVILLE, RI--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1964 - 1999	
ANNUAL TOTAL	12786.18		10205.87		30.7	
ANNUAL MEAN	35.0		28.0		44.9	
HIGHEST ANNUAL MEAN					13.5	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	491	Jun 14	291	Feb 3	937	Jan 25 1979
LOWEST DAILY MEAN	.55	Oct 7	.01	Sep 5	.01	Sep 5 1999
ANNUAL SEVEN-DAY MINIMUM	.91	Oct 2	.07	Aug 31	.04	Sep 2 1995
INSTANTANEOUS PEAK FLOW			373	Feb 3	1840	Jan 25 1979
INSTANTANEOUS PEAK STAGE			6.16	Feb 3	8.53	Jan 25 1979
INSTANTANEOUS LOW FLOW			.00	Sep 5	.00	Sep 5 1999
ANNUAL RUNOFF (CFSM)	2.19		1.75		1.92	
ANNUAL RUNOFF (INCHES)	29.73		23.73		26.06	
10 PERCENT EXCEEDS	71		74		68	
50 PERCENT EXCEEDS	20		15		18	
90 PERCENT EXCEEDS	2.3		.44		1.7	

e Estimated

NIPMUC RIVER NEAR HARRISVILLE, RI 01111300



BLACKSTONE RIVER BASIN

01111500 BRANCH RIVER AT FORESTDALE, RI

LOCATION.--Lat 41°59'47", long 71°33'47", Providence County, Hydrologic Unit 01090003, on left bank 20 ft upstream from abandoned bridge site, 400 ft downstream from milldam at Forestdale, 1 mi east of Slatersville, and 1.6 mi upstream from mouth.

DRAINAGE AREA.--91.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September to December 1909 and January 1912 to July 1913 (gage heights only; published as "at Branch Village"), January 1940 to current year.

REVISED RECORDS.--WSP 2101: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 180 ft above sea level, from topographic map. Prior to July 28, 1913, nonrecording gage at site 1 mi downstream at different datum.

REMARKS.--Records fair except those for estimated daily discharge, which are poor. Occasional regulation by pond upstream. Prior to 1957, greater regulation by mills and reservoirs upstream.

AVERAGE DISCHARGE.--59 years, 175 ft³/s, 26.13 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,470 ft³/s, Jan. 25, 1979, gage height, 11.80 ft; maximum gage height, 11.90 ft, Mar. 18, 1968; minimum daily, 5.2 ft³/s, Oct. 7, 1948.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1886, about 5,800 ft³/s, Mar. 19, 1936, by computation of flow over dam 1 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,610 ft³/s, Feb. 3, gage height, 6.66 ft; minimum, 5.6 ft³/s, Sept. 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	80	94	62	196	784	169	106	85	57	e17	e6.6
2	34	126	91	53	255	819	161	105	79	65	e14	e7.0
3	14	139	88	104	1390	573	154	105	74	56	e11	e6.4
4	8.6	148	76	453	993	683	149	104	68	58	e6.0	e5.6
5	8.1	152	59	250	717	660	140	125	65	57	e6.8	e6.7
6	23	148	59	174	528	471	131	141	61	52	e7.6	e9.2
7	26	129	60	154	422	418	132	127	57	51	e7.0	e9.0
8	35	124	60	140	370	358	136	120	55	42	e7.7	e9.5
9	121	121	62	173	293	318	139	123	52	38	e7.4	e9.1
10	164	120	62	268	272	276	139	113	51	39	e6.6	e64
11	232	148	61	210	256	247	131	109	50	37	e6.0	e160
12	218	144	60	175	234	242	128	109	49	36	e6.8	e61
13	159	110	59	165	272	233	128	109	49	37	e7.0	e32
14	140	95	56	159	276	219	123	108	50	37	e9.0	e26
15	159	88	53	219	222	266	126	101	46	36	e18	7.5
16	163	89	52	428	205	275	133	99	44	35	e13	127
17	135	96	53	353	197	271	136	99	44	33	e9.8	679
18	120	102	54	317	216	297	131	99	44	31	e8.4	310
19	108	103	54	722	352	301	120	99	44	31	e7.6	151
20	99	108	52	558	285	283	86	135	45	36	e7.0	102
21	92	114	50	399	243	257	84	138	44	31	e7.8	101
22	88	99	48	334	228	416	83	135	42	28	e8.4	91
23	86	89	48	277	200	558	89	135	42	26	e8.4	58
24	84	84	48	416	191	392	104	149	41	24	e7.2	43
25	82	80	47	983	194	352	106	316	39	25	e7.5	34
26	81	90	45	594	194	266	105	206	37	25	e8.0	30
27	75	145	45	416	191	227	105	153	37	24	e7.4	28
28	72	129	45	353	210	224	105	e124	38	24	e9.0	25
29	69	108	47	309	---	250	106	113	34	23	e8.6	25
30	67	98	64	242	---	205	105	103	32	e13	e7.8	35
31	65	---	73	210	---	182	---	94	---	e13	e7.0	---
TOTAL	2877.7	3406	1825	9670	9602	11323	3684	3902	1498	1120	270.8	2258.6
MEAN	92.8	114	58.9	312	343	365	123	126	49.9	36.1	8.74	75.3
MAX	232	152	94	983	1390	819	169	316	85	65	18	679
MIN	8.1	80	45	53	191	182	83	94	32	13	6.0	5.6
CFSM	1.02	1.24	.65	3.42	3.76	4.01	1.35	1.38	.55	.40	.10	.83
IN.	1.17	1.39	.74	3.94	3.92	4.62	1.50	1.59	.61	.46	.11	.92

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1999, BY WATER YEAR (WY)

MEAN	98.8	158	214	231	244	341	313	201	129	59.3	59.4	62.7
MAX	479	472	565	810	581	723	877	399	710	211	372	397
(WY)	1956	1956	1973	1979	1970	1972	1987	1967	1982	1998	1955	1954
MIN	15.5	30.4	37.9	40.2	60.5	163	89.4	77.3	37.7	18.1	8.74	19.1
(WY)	1958	1966	1966	1981	1980	1989	1966	1965	1964	1965	1999	1995

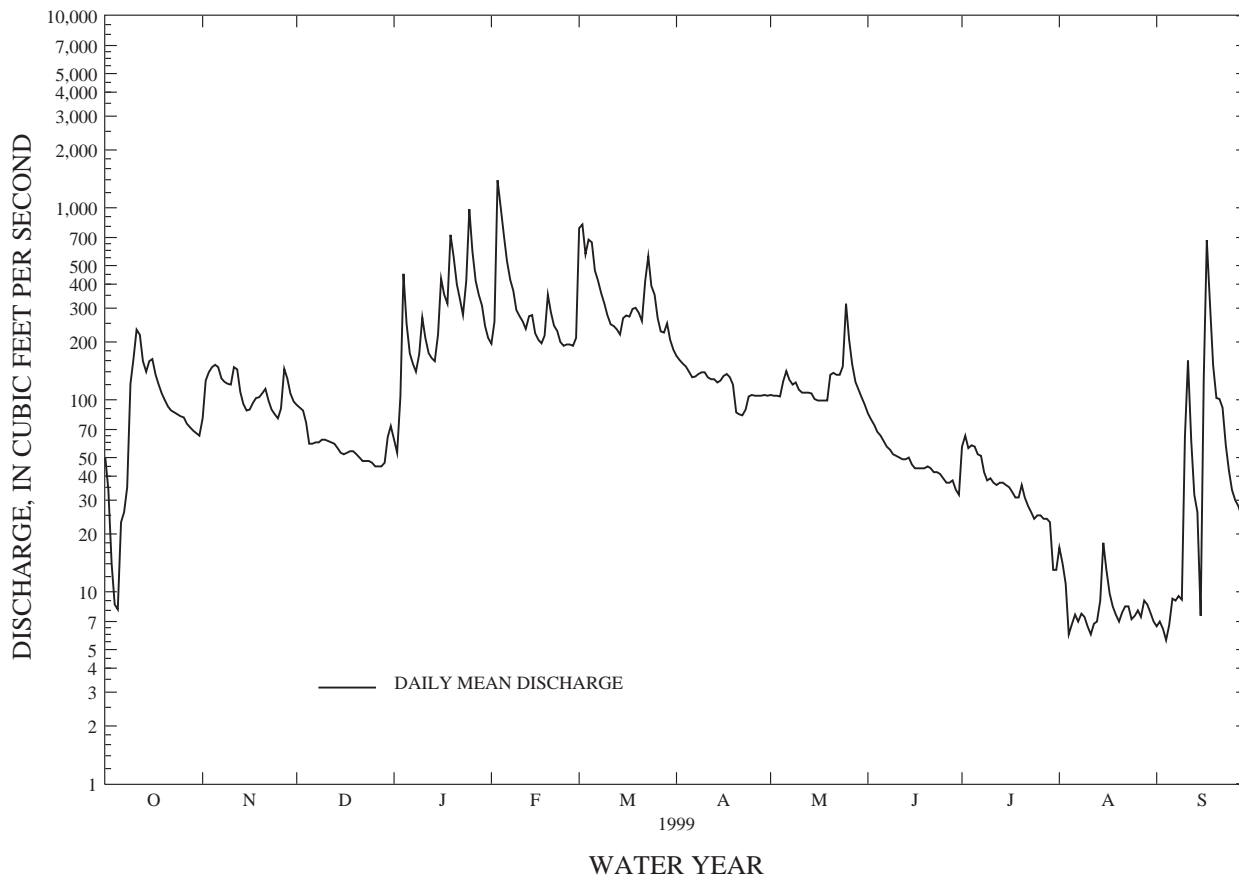
BLACKSTONE RIVER BASIN

01111500 BRANCH RIVER AT FORESTDALE, RI--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1940 - 1999	
ANNUAL TOTAL	78197.7		51437.1		175	
ANNUAL MEAN	214		141		261	
HIGHEST ANNUAL MEAN					1984	
LOWEST ANNUAL MEAN					76.5	
HIGHEST DAILY MEAN	2000	Mar 10	1390	Feb 3	4020	Jun 6 1982
LOWEST DAILY MEAN	8.1	Oct 5	5.6	Sep 4	5.2	Oct 7 1948
ANNUAL SEVEN-DAY MINIMUM	18	Sep 24	6.7	Aug 30	6.7	Aug 30 1999
INSTANTANEOUS PEAK FLOW			1610		5470	
INSTANTANEOUS PEAK STAGE			6.66		11.90	
INSTANTANEOUS LOW FLOW			5.6		Sep 4	
ANNUAL RUNOFF (CFSM)	2.35		1.55		1.92	
ANNUAL RUNOFF (INCHES)	31.90		20.98		26.13	
10 PERCENT EXCEEDS	468		309		379	
50 PERCENT EXCEEDS	139		99		122	
90 PERCENT EXCEEDS	32		9.4		26	

e Estimated

BRANCH RIVER AT FORESTDALE, RI 01111500



BLACKSTONE RIVER BASIN

01111500 BRANCH RIVER AT FORESTDALE, RI--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954, 1968, 1979 to current year.

REMARKS.--Discharge computed by discharge measurements on the day of sampling. Instantaneous records are representative of the cross section.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00300)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	
NOV												
17...	1200	90	90	6.6	8.5	8.0	40	0.57	752	11.6	99	<10
AUG												
10...	1215	E6.6	151	6.7	23.0	24.0	60	--	752	8.8	106	19
SEP												
16...	0830	127	153	6.9	21.5	22.0	23	--	753	8.3	96	<10
28...	1245	25	113	6.6	24.0	19.0	45	--	762	8.9	96	16

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL /100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	
NOV											
17...	<1.0	K1	K1	--	--	--	--	--	--	6	
AUG											
10...	1.0	K7	92	20	5.7	1.4	19	64	2	2.5	18
SEP											
16...	1.0	970	730	20	5.8	1.4	19	64	2	2.6	19
28...	1.0	K30	K10	18	5.2	1.1	13	59	1	1.5	9

DATE	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	HY-DROXIDE WATER DIS IT FIELD (MG/L AS OH) (71834)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
NOV											
17...	0	0	5	--	--	--	--	3	53	<0.010	0.193
AUG											
10...	0	0	15	5.3	29	0.12	73	1	89	<.010	.162
SEP											
16...	0	0	15	5.9	29	<.10	74	1	85	.012	.305
28...	0	0	8	11	19	.11	57	<1	76	<.010	.206

BLACKSTONE RIVER BASIN

01111500 BRANCH RIVER AT FORESTDALE, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC TOTAL (UG/L AS AS) (01002)
NOV											
17...	0.060	0.08	0.24	0.30	0.49	<0.050	<0.010	50	33	<1.0	<1
AUG											
10...	.055	.07	.40	.46	.62	<.050	<.010	70	--	--	<1
SEP											
16...	.127	.16	.32	.45	.75	<.050	<.010	70	--	--	1
28...	.104	.13	.43	.53	.74	.049	<.010	90	--	--	<3

DATE	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
NOV											
17...	<1	12	<1.0	<1.0	<1.0	<1.0	1.2	300	<1.0	17	18
AUG											
10...	--	--	--	<1.0	--	--	--	740	1.3	100	--
SEP											
16...	--	--	--	<1.0	--	--	--	470	<1.0	120	--
28...	--	--	--	<.14	--	--	--	390	<1.0	120	--

DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	PHENOLS TOTAL (UG/L) (32730)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV											
17...	<0.10	<1.0	<1.0	<1	<0.20	3.5	<1.0	4.7	<4	2	71
AUG											
10...	<.10	--	--	--	<.20	--	--	4.9	5	1	67
SEP											
16...	<.10	--	--	--	<.20	--	--	4.1	<4	1	67
28...	<.10	--	--	--	<.20	--	--	7.2	<4	5	53

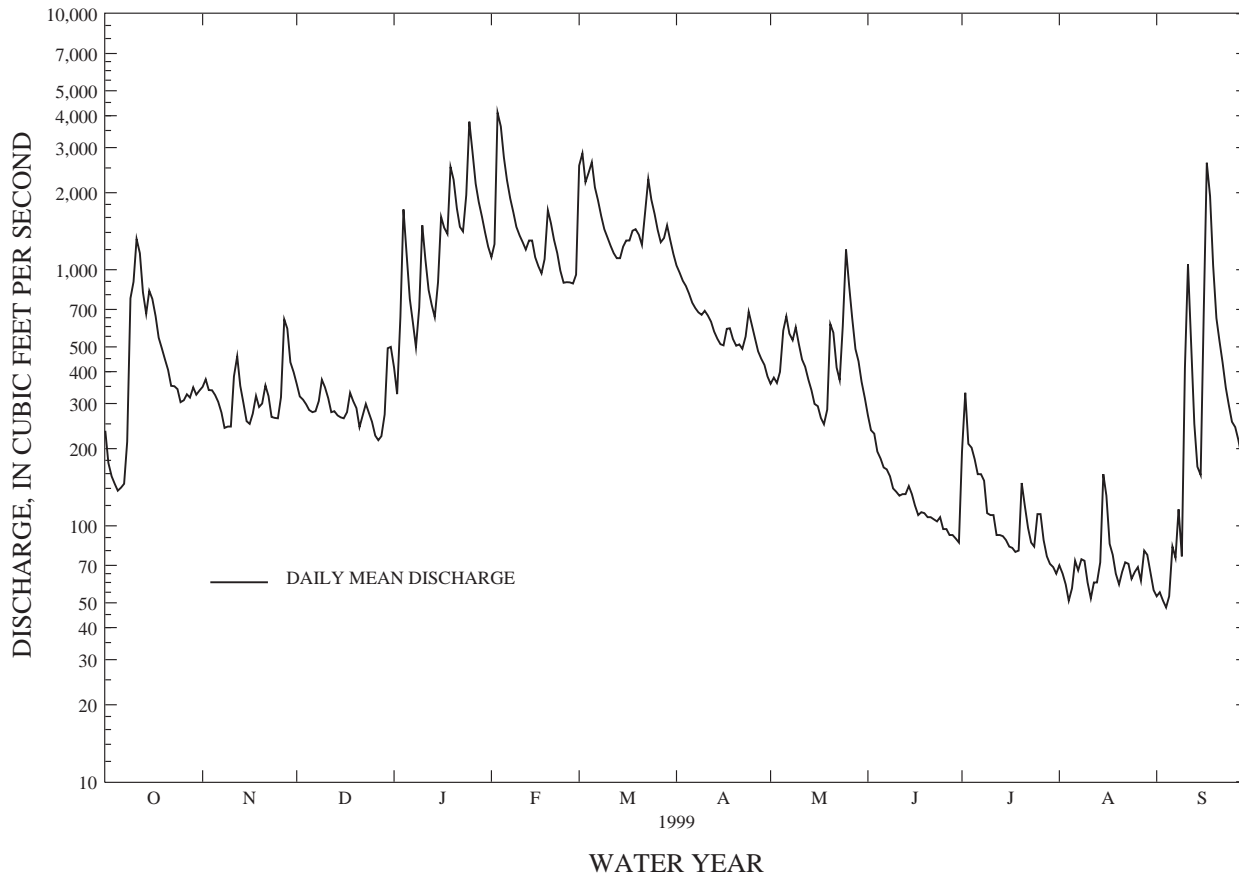
E Estimated

BLACKSTONE RIVER BASIN

01112500 BLACKSTONE RIVER AT WOONSOCKET, RI--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1929 - 1999	
ANNUAL TOTAL	357821		226252		779	
ANNUAL MEAN	980		620		1162	
HIGHEST ANNUAL MEAN					1984	
LOWEST ANNUAL MEAN					345	
HIGHEST DAILY MEAN	7000		4110		25900	
LOWEST DAILY MEAN	96	Mar 10	48	Feb 3	21	Aug 20 1955
ANNUAL SEVEN-DAY MINIMUM	116	Sep 18	55	Sep 4	55	Aug 11 1934
INSTANTANEOUS PEAK FLOW			5060	Aug 30	55	Aug 30 1999
INSTANTANEOUS PEAK STAGE			7.71	Feb 3	32900	Aug 19 1955
INSTANTANEOUS LOW FLOW			42	Feb 3	21.80	Aug 19 1955
10 PERCENT EXCEEDS	2240		1470	Sep 3	1680	
50 PERCENT EXCEEDS	643		348		538	
90 PERCENT EXCEEDS	176		77		162	

BLACKSTONE RIVER AT WOONSOCKET, RI 01112500



BLACKSTONE RIVER BASIN

01112900 BLACKSTONE RIVER AT MANVILLE, RI
(National Water Quality Assessment Site)

LOCATION.--Lat 41°58'18", long 71°28'14", Providence County, Hydrologic Unit 01090003, at Manville Road Bridge,400 ft downstream from milldam at Manville, and 2.5 mi downstream from Woonsocket Sewage Treatment Plant.

PERIOD OF RECORD.--Water years 1970, 1979 to current year.

REMARKS.--Discharge obtained from gage at Woonsocket and inflow from Woonsocket Treatment Plant on the day of sampling. Instantaneous records are representative of the cross section. National Water Quality Assessment Site water-quality samples collected according to National Water Quality Assessment protocols.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	
NOV												
19...	1000	307	352	6.8	0.0	8.0	40	2.2	766	10.8	91	15
AUG												
12...	0945	71	573	7.3	24.0	23.0	110	--	755	7.2	85	38
SEP												
14...	1400	229	323	7.1	25.0	20.0	38	--	760	9.7	107	21
30...	0830	167	444	7.1	22.5	19.0	50	--	748	9.1	100	25

DATE	5 DAY OXYGEN DEMAND, BIO-CHEM-ICAL, (MG/L) (00310)	COLI-FORM, FECAL, UM-MF (COLS./100 ML) (31625)	E. COLI WATER TOTAL UREASE (COL /100 ML) (31633)	HARD-NESS TOTAL (MG/L CAC03) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER FIELD (MG/L AS CO3) (00452)
NOV												
19...	1.0	330	170	--	--	--	--	--	--	--	33	0
AUG												
12...	5.0	45	50	56	17	3.1	80	72	5	8.0	52	0
SEP												
14...	2.0	1,900	2,200	40	12	2.3	41	67	3	4.1	28	0
30...	2.0	610	640	50	15	2.8	64	71	4	5.7	30	0

DATE	HY-DROXIDE WATER DIS IT FIELD (MG/L AS OH) (71834)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CAC03) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)
NOV												
19...	0	27	--	--	--	--	4	199	0.078	1.25	1.88	2.4
AUG												
12...	0	43	47	110	0.50	302	5	336	.337	1.41	3.41	4.4
SEP												
14...	0	23	29	59	.22	169	1	192	.206	1.12	.408	.53
30...	0	25	44	83	.26	244	4	263	.255	2.01	.864	1.1

BLACKSTONE RIVER BASIN

01112900 BLACKSTONE RIVER AT MANVILLE, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(National Water Quality Assessment Site)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	
JAN										
20...	1045	2,360	341	6.8	6.9	1.3	14.3	7.1	81	
AUG										
16...	1100	195	470	7.2	25.6	23.3	7.7	15	87	
SEP										
17...	0945	2,610	139	7.3	18.3	19.8	9.0	8.3	39	
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
JAN										
20...	<0.10	120	1.5	102	2.2	182	5.6	50	11	0.516
AUG										
16...	.32	42	2.8	15	7.7	265	4.3	60	.46	1.13
SEP										
17...	.12	210	1.6	140	3.4	123	4.2	26	15	.176
DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDEDED TOTAL (MG/L AS C) (00689)	SEDI- MENT, SUS- PENDEDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JAN										
20...	0.79	1.0	0.010	0.140	0.208	0.117	4.5	0.80	5	58
AUG										
16...	1.8	2.3	.116	.636	.727	.578	6.6	.90	3	88
SEP										
17...	.52	1.2	.016	.129	.616	.113	5.3	>4.0	60	51



USGS water-quality sampling vehicles at Pawtuxet River at Cranston, Rhode Island. (photo by J. L. Zanca)

MOSHASSUCK RIVER BASIN

01114000 MOSHASSUCK RIVER AT PROVIDENCE, RI

LOCATION.--Lat 41°50'02", long 71°24'42", Providence County, Hydrologic Unit 01090004, on left bank 800 ft upstream from bridge on U.S. Highway 44 at Providence and 0.5 mi above mouth.

DRAINAGE AREA.--23.1 mi².

PERIOD OF RECORD.--Discharge: June 1963 to current year.
Water-quality records: Water year 1971.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 8.19 ft above sea level. Prior to Nov. 7, 1973, at datum 0.88 ft lower. Mar. 10, 1972, to Nov. 7, 1973, stage record obtained at site 200 ft upstream. Gage heights of published extremes are for site and datum then in use.

REMARKS.--Records good. Occasional regulation at low flow.

AVERAGE DISCHARGE.--36 years, 40.6 ft³/s, 23.89 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,390 ft³/s, Mar. 18, 1968, gage height, 3.46 ft, present datum, from rating curve extended above 460 ft³/s; maximum gage height, 5.81 ft, July 30, 1976; minimum discharge, 1.3 ft³/s, Aug. 23, 1970; minimum daily, 1.7 ft³/s, Aug. 10, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 879 ft³/s, Aug. 26, gage height, 4.95 ft; minimum, 3.8 ft³/s, July 12, 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	8.6	18	13	37	210	41	16	17	14	5.0	5.2
2	8.6	10	18	14	139	105	39	19	18	14	4.9	4.9
3	7.9	14	15	253	312	75	38	19	19	8.9	4.7	4.7
4	7.8	9.8	14	189	126	124	37	28	15	22	4.5	4.6
5	7.8	11	10	68	96	81	33	35	12	9.0	4.5	4.5
6	7.7	8.7	12	41	77	80	32	24	13	7.4	4.5	5.6
7	7.8	8.5	14	34	68	83	31	21	14	9.2	4.3	9.6
8	20	8.1	21	28	63	60	30	39	15	6.0	22	13
9	83	8.0	18	74	63	54	30	27	10	5.6	9.0	7.2
10	77	11	17	65	56	62	31	22	11	5.9	5.1	233
11	51	78	14	38	49	62	28	15	11	5.6	4.5	171
12	27	31	11	32	48	58	34	19	13	5.4	4.7	46
13	21	21	12	30	58	54	28	16	14	7.6	4.5	23
14	40	12	14	27	44	51	25	12	15	5.8	18	17
15	34	14	12	248	38	67	25	14	13	5.6	63	36
16	23	15	13	171	36	62	32	14	8.5	5.4	10	270
17	14	22	13	86	35	61	40	14	8.5	5.3	6.1	175
18	15	17	15	177	86	69	30	16	9.4	5.2	5.3	65
19	16	14	11	201	78	57	26	42	9.1	26	4.7	40
20	15	19	12	95	53	49	24	102	8.6	11	4.2	30
21	15	17	13	69	45	45	24	32	7.5	6.6	6.5	26
22	15	15	15	59	40	104	26	23	6.8	6.1	5.2	24
23	13	16	8.9	57	33	73	35	64	6.8	6.6	4.7	18
24	14	15	11	124	33	69	30	136	6.8	8.3	4.4	17
25	12	12	11	120	36	70	25	117	6.5	5.8	4.3	16
26	11	73	10	76	39	55	24	54	6.4	5.8	114	14
27	8.6	35	10	62	35	49	22	39	6.0	5.7	76	15
28	10	24	11	57	102	80	23	32	5.9	5.4	13	11
29	16	19	19	50	---	63	21	26	5.9	5.1	8.8	15
30	14	16	41	45	---	50	19	23	5.8	4.9	7.0	44
31	9.8	---	20	39	---	43	---	22	---	5.1	5.7	---
TOTAL	635.0	582.7	453.9	2642	1925	2225	883	1082	318.5	250.3	443.1	1365.3
MEAN	20.5	19.4	14.6	85.2	68.8	71.8	29.4	34.9	10.6	8.07	14.3	45.5
MAX	83	78	41	253	312	210	41	136	19	26	114	270
MIN	7.7	8.0	8.9	13	33	43	19	12	5.8	4.9	4.2	4.5
CFSM	.89	.84	.63	3.69	2.98	3.11	1.27	1.51	.46	.35	.62	1.97
IN.	1.02	.94	.73	4.25	3.10	3.58	1.42	1.74	.51	.40	.71	2.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1999, BY WATER YEAR (WY)

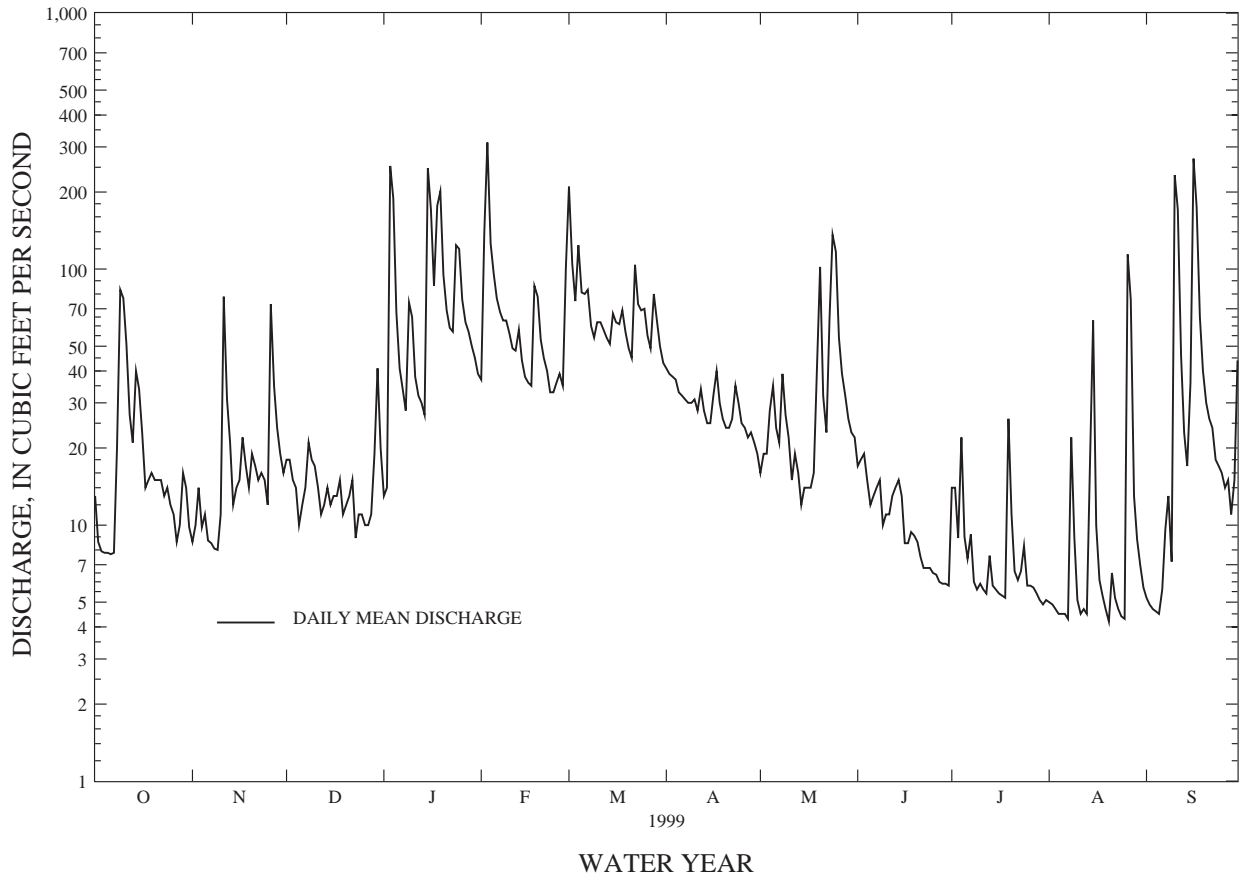
MEAN	22.7	37.0	49.7	54.5	53.1	69.2	64.8	45.2	33.1	18.9	19.9	19.8
MAX	69.0	118	143	174	93.8	141	160	104	125	42.2	53.8	50.1
(WY)	1978	1973	1973	1979	1984	1968	1983	1967	1982	1998	1986	1972
MIN	6.36	10.6	10.6	12.9	18.3	29.0	22.9	24.2	10.6	8.07	7.27	5.09
(WY)	1995	1966	1966	1981	1980	1985	1966	1965	1999	1999	1970	1970

MOSHASSUCK RIVER BASIN

01114000 MOSHASSUCK RIVER AT PROVIDENCE, RI--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1963 - 1999	
ANNUAL TOTAL	19511.6		12805.8			
ANNUAL MEAN	53.5		35.1		40.6	
HIGHEST ANNUAL MEAN					62.5	
LOWEST ANNUAL MEAN					20.2	
HIGHEST DAILY MEAN	670	Jun 14	312	Feb 3	1750	Mar 18 1968
LOWEST DAILY MEAN	7.7	Oct 6	4.2	Aug 20	1.7	Aug 10 1970
ANNUAL SEVEN-DAY MINIMUM	8.7	Oct 1	4.6	Aug 1	2.6	Aug 4 1970
INSTANTANEOUS PEAK FLOW			879	Aug 26	2390	Mar 18 1968
INSTANTANEOUS PEAK STAGE			4.95	Aug 26	5.81	Jul 30 1976
INSTANTANEOUS LOW FLOW			3.8	Jul 12	1.3	Aug 23 1970
ANNUAL RUNOFF (CFSM)	2.31		1.52		1.76	
ANNUAL RUNOFF (INCHES)	31.42		20.62		23.89	
10 PERCENT EXCEEDS	107		77		81	
50 PERCENT EXCEEDS	31		19		28	
90 PERCENT EXCEEDS	10		5.7		8.3	

MOSHASSUCK RIVER AT PROVIDENCE, RI 01114000



WOONASQUATUCKET RIVER BASIN

01114500 WOONASQUATUCKET RIVER AT CENTERDALE, RI

LOCATION.--Lat 41°51'32", long 71°29'16", Providence County, Hydrologic Unit 01090004, on right bank 75 ft downstream from bridge on U.S. Highway 44 at Centerdale and 6.5 mi upstream from mouth.

DRAINAGE AREA.--38.3 mi².

PERIOD OF RECORD.--Discharge: July 1941 to current year.
Water-quality records: Water years 1955-56.

GAGE.--Water-stage recorder. Elevation of gage is 95 ft above sea level, from topographic map.

REMARKS.--Records fair except those for estimated daily discharge, which are poor. Some regulation by reservoirs upstream; regulation greater prior to 1956. Discharge figures prior to 1966 included leakage around station through bypass canal; leakage negligible subsequently.

AVERAGE DISCHARGE.--58 years, 73.7 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,520 ft³/s, June 30, 1998, gage height, 7.26, maximum gage height, 7.75 ft, Mar. 18, 1968, from floodmarks; minimum daily, 2.1 ft³/s, Aug. 26, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge during March 1936, 1,000 ft³/s, by computation of flow over dam 0.7 mi downstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 700 ft³/s, Sept. 10, gage height, 4.89 ft; minimum, 6.8 ft³/s, Oct. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	47	50	12	86	333	101	57	52	17	9.0	15
2	14	47	48	12	146	264	97	56	50	16	8.3	15
3	14	47	32	75	495	211	93	56	48	14	7.8	14
4	14	52	13	103	320	258	89	57	34	17	7.6	12
5	14	65	14	51	271	209	84	46	31	15	7.7	12
6	13	65	14	40	223	184	82	44	30	14	7.7	17
7	14	70	14	36	206	191	80	42	30	15	7.7	15
8	18	76	15	33	196	164	76	44	29	14	9.2	15
9	44	79	14	51	182	135	75	46	28	13	8.7	13
10	41	82	13	60	171	135	77	41	28	13	8.0	158
11	42	97	13	43	155	125	74	38	28	12	8.6	133
12	26	88	13	38	146	115	78	37	28	11	9.4	32
13	22	78	13	37	146	110	73	37	28	11	10	19
14	26	69	12	35	125	105	71	36	34	11	13	17
15	27	69	12	113	111	112	71	36	30	11	17	27
16	21	69	12	147	102	103	73	35	27	11	14	184
17	45	70	13	141	95	106	86	34	27	11	12	e230
18	56	67	12	194	109	115	76	34	27	11	10	e210
19	52	66	12	341	132	104	67	43	26	14	11	84
20	50	64	12	234	122	95	47	75	26	13	10	74
21	48	65	12	185	112	88	45	48	25	10	11	67
22	46	66	15	166	101	181	45	41	17	9.3	12	65
23	28	65	25	160	93	165	51	46	15	9.1	12	61
24	8.4	64	26	221	88	143	52	113	14	9.5	11	60
25	9.4	58	26	275	85	142	46	150	14	9.6	11	58
26	16	47	26	188	84	125	44	117	14	9.2	33	56
27	18	39	26	143	83	116	43	96	14	9.1	26	59
28	31	37	25	125	107	133	44	81	14	8.8	18	78
29	42	42	28	113	---	128	57	70	14	8.4	16	78
30	48	47	25	100	---	116	58	60	14	8.4	15	92
31	48	---	13	91	---	108	---	55	---	8.8	15	---
TOTAL	913.8	1897	598	3563	4292	4619	2055	1771	796	364.2	376.7	1970
MEAN	29.5	63.2	19.3	115	153	149	68.5	57.1	26.5	11.7	12.2	65.7
MAX	56	97	50	341	495	333	101	150	52	17	33	230
MIN	8.4	37	12	12	83	88	43	34	14	8.4	7.6	12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1999, BY WATER YEAR (WY)

MEAN	39.0	59.4	85.2	93.9	105	141	129	86.4	56.6	31.8	28.7	30.4
MAX	200	208	239	281	254	357	364	191	214	112	83.6	116
(WY)	1956	1956	1973	1979	1970	1983	1983	1967	1982	1998	1955	1954
MIN	10.3	9.90	17.9	20.6	31.2	54.1	44.9	34.1	23.2	11.7	9.21	6.99
(WY)	1958	1958	1966	1966	1944	1944	1966	1986	1965	1999	1963	1980

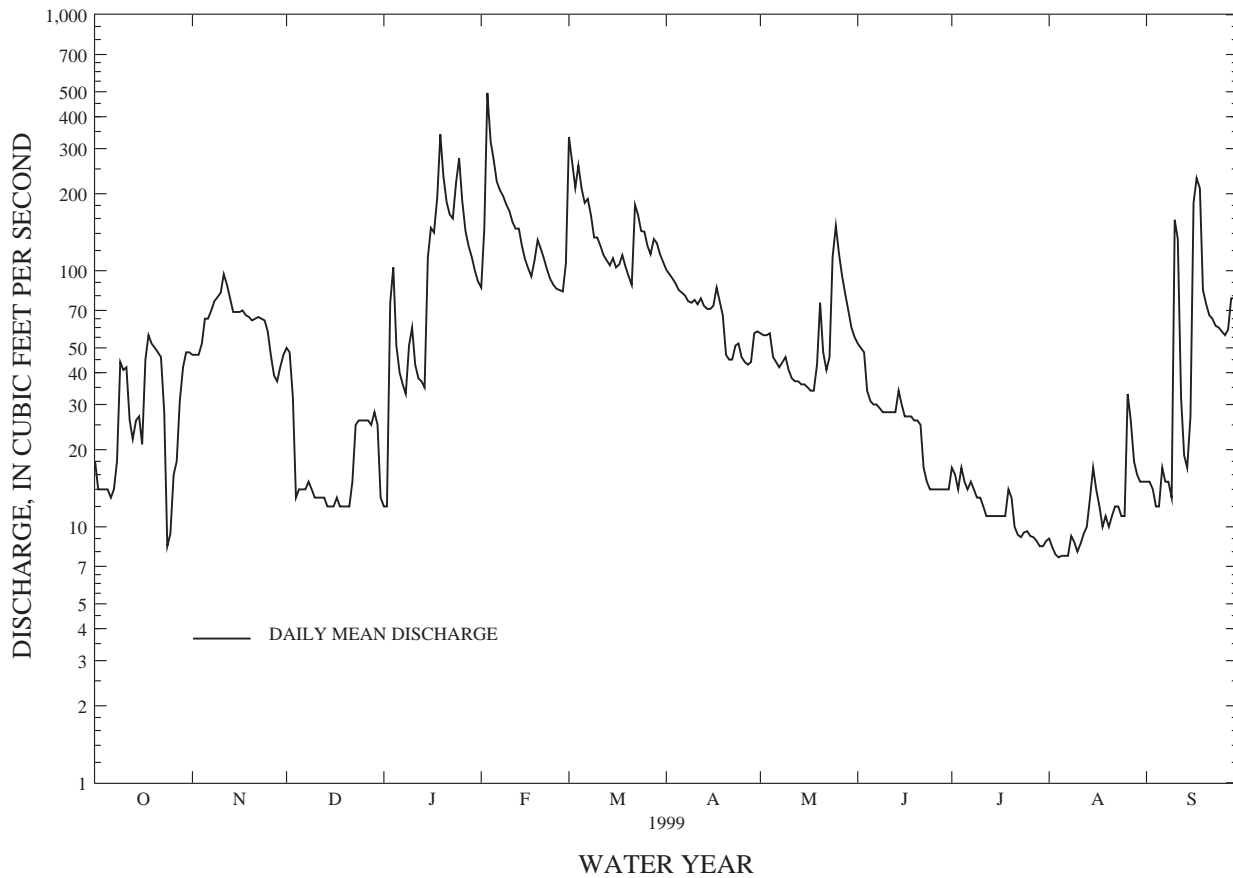
WOONASQUATUCKET RIVER BASIN

01114500 WOONASQUATUCKET RIVER AT CENTERDALE, RI--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1941 - 1999	
ANNUAL TOTAL	36902.8		23215.7			
ANNUAL MEAN	101		63.6		73.7	
HIGHEST ANNUAL MEAN					119	1984
LOWEST ANNUAL MEAN					31.5	1966
HIGHEST DAILY MEAN	831	Jul 1	495	Feb 3	1250	Mar 18 1968
LOWEST DAILY MEAN	8.4	Oct 24	7.6	Aug 4	2.1	Aug 26 1963
ANNUAL SEVEN-DAY MINIMUM	12	Dec 14	8.0	Aug 1	3.1	Aug 21 1963
INSTANTANEOUS PEAK FLOW			700	Sep 10	1520	Jun 30 1998
INSTANTANEOUS PEAK STAGE			4.89	Sep 10	7.75	Mar 18 1968
INSTANTANEOUS LOW FLOW			6.8	Oct 25		
10 PERCENT EXCEEDS	218		146		152	
50 PERCENT EXCEEDS	67		44		51	
90 PERCENT EXCEEDS	15		11		17	

e Estimated

WOONASQUATUCKET RIVER AT CENTERDALE, RI 01114500



PAWTUXET RIVER BASIN

01115098 PEEPTOAD BROOK AT ELMDALE ROAD NEAR NORTH SCITUATE, RI

LOCATION.--Lat 41°51'08", long 71°23'35", Providence County, Hydrologic Unit 01090004, on left bank 5 ft downstream from bridge on Elmdale Road, 0.5 mi upstream from regulating reservoir and 1.7 mi northwest of North Scituate.

DRAINAGE AREA.--4.96 mi².

PERIOD OF RECORD.--June 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 315 ft above sea level, from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--5 years, 11.0 ft³/s, 30.01 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 180 ft³/s, Oct. 20, 1996, gage height, 2.40 ft; no flow Sept. 13, 16, 17, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 119 ft³/s, Feb. 3, gage height, 2.32 ft; minimum, 0.02 ft³/s, Aug. 13, 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.80	1.9	4.2	5.1	12	77	14	5.8	4.5	1.0	0.22	0.17
2	.76	1.8	3.7	3.4	19	52	13	5.5	3.9	1.4	.18	.14
3	.76	1.6	3.0	22	96	32	12	5.3	3.5	1.4	.13	.13
4	.74	1.6	2.8	57	50	39	12	6.5	3.1	1.6	.09	.11
5	.68	1.6	2.5	23	39	34	11	8.6	3.0	1.6	.07	.10
6	.64	1.6	2.3	14	30	25	11	8.7	2.8	1.3	.06	.12
7	.60	1.6	2.3	11	24	26	10	7.6	2.4	1.1	.04	.19
8	.68	1.5	2.4	10	21	21	9.6	7.4	2.6	1.0	.04	.22
9	2.6	1.4	3.5	15	18	18	9.1	9.2	2.5	.92	.04	.26
10	4.2	1.3	3.2	24	17	18	9.4	8.1	2.2	.97	.03	2.6
11	8.6	5.8	3.0	16	16	17	8.5	6.6	1.8	.91	.02	6.5
12	6.4	7.5	2.6	13	15	16	9.1	5.6	1.7	.84	.02	1.9
13	4.1	4.8	2.6	12	17	16	9.0	4.7	1.7	.85	.02	1.2
14	3.1	3.8	2.4	11	15	16	8.0	4.2	1.9	.85	.03	.95
15	3.5	3.3	2.2	26	13	18	7.4	3.9	1.8	.79	.11	1.0
16	2.6	2.7	2.2	51	12	18	7.3	3.6	1.5	.68	.15	16
17	2.1	2.7	2.3	31	12	19	12	3.4	1.5	.58	.14	48
18	1.9	3.3	2.8	27	18	24	11	3.3	1.5	.49	.13	18
19	2.0	2.9	2.4	61	30	22	9.6	3.6	1.4	.48	.10	9.1
20	1.8	2.8	2.2	37	20	18	8.3	14	1.5	.66	.08	6.0
21	1.6	3.9	2.1	24	16	16	7.8	12	1.5	.56	.07	4.4
22	1.5	3.7	2.6	20	14	31	7.5	7.6	1.3	.49	.08	3.7
23	1.4	3.5	3.1	19	12	33	9.4	6.4	1.0	.47	.08	3.1
24	1.4	3.3	3.0	31	11	24	11	16	.91	.61	.08	2.5
25	1.3	3.3	2.8	51	12	25	9.7	34	.82	.59	.06	2.2
26	1.3	4.7	2.5	33	12	20	8.3	18	.78	.51	.08	1.9
27	1.3	8.8	2.4	23	12	18	7.4	12	.71	.48	.30	1.7
28	1.3	6.7	2.4	20	15	20	6.7	9.3	.72	.41	.35	1.5
29	1.8	5.3	3.2	18	---	20	6.6	7.5	.74	.34	.30	1.5
30	2.1	4.5	9.3	15	---	17	6.2	6.7	.80	.29	.24	2.5
31	1.9	---	7.6	13	---	15	---	5.5	---	.25	.20	---
TOTAL	65.46	103.2	95.6	736.5	598	765	281.9	260.6	56.08	24.42	3.54	137.69
MEAN	2.11	3.44	3.08	23.8	21.4	24.7	9.40	8.41	1.87	.79	.11	4.59
MAX	8.6	8.8	9.3	61	96	77	14	34	4.5	1.6	.35	48
MIN	.60	1.3	2.1	3.4	11	15	6.2	3.3	.71	.25	.02	.10
CFSM	.43	.69	.62	4.79	4.31	4.98	1.89	1.69	.38	.16	.02	.93
IN.	.49	.77	.72	5.52	4.49	5.74	2.11	1.95	.42	.18	.03	1.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1999, BY WATER YEAR (WY)

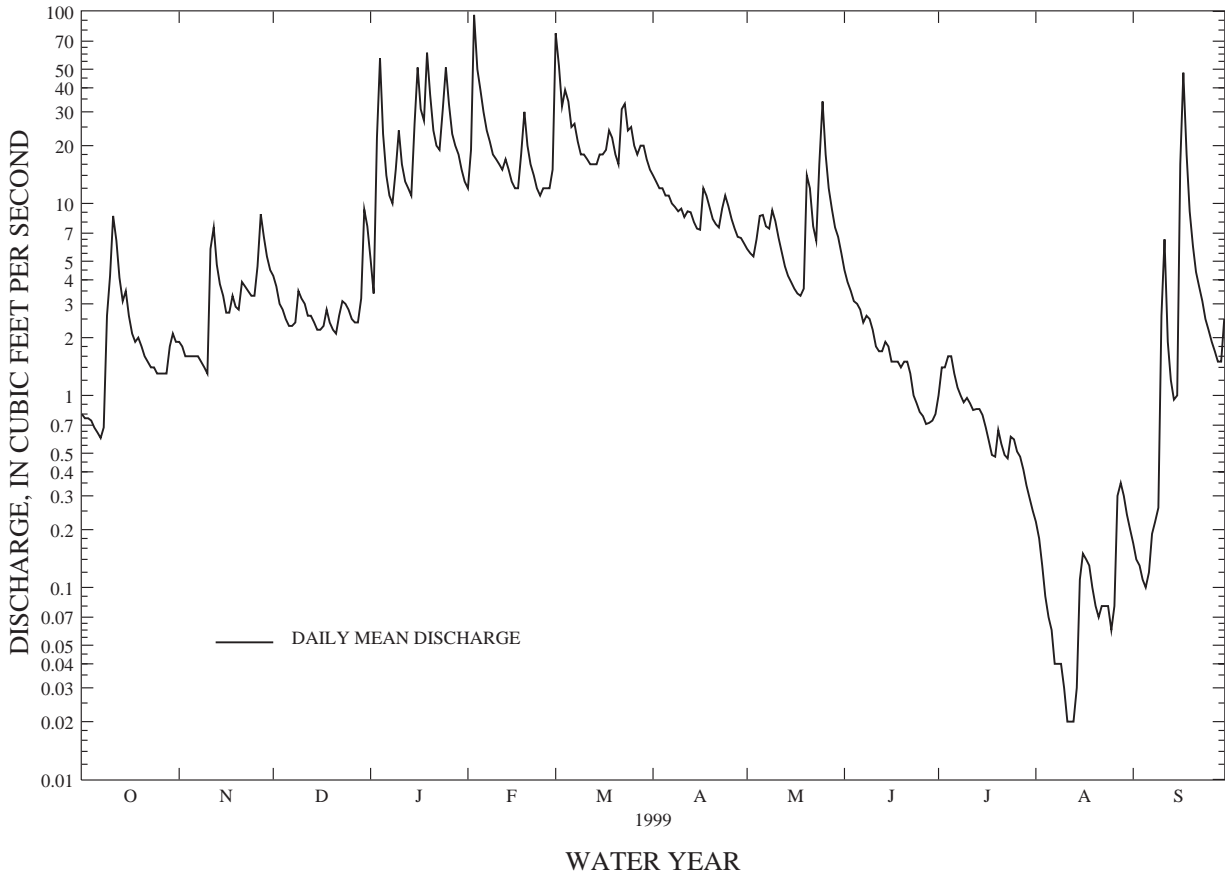
	1994	1995	1996	1997	1998	1999
MEAN	4.51	8.68	12.8	20.2	18.5	21.2
MAX	15.7	14.4	33.6	23.9	22.4	29.3
(WY)	1997	1996	1997	1996	1998	1998
MIN	.51	3.44	3.08	13.8	10.9	16.2
(WY)	1998	1999	1999	1995	1995	1995

PAWTUXET RIVER BASIN

01115098 PEEPTOAD BROOK AT ELMDALE ROAD NEAR NORTH SCITUATE, RI--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1994 - 1999	
ANNUAL TOTAL	4842.03	3127.99	11.0	
ANNUAL MEAN	13.3	8.57	14.1	1998
HIGHEST ANNUAL MEAN			7.17	1995
LOWEST ANNUAL MEAN			117	Jan 20 1996
HIGHEST DAILY MEAN	113 Mar 10	96 Feb 3	.00	Sep 16 1995
LOWEST DAILY MEAN	.60 Oct 7	.02 Aug 11	.01	Sep 10 1995
ANNUAL SEVEN-DAY MINIMUM	.69 Oct 2	.03 Aug 8	180	Oct 20 1996
INSTANTANEOUS PEAK FLOW		119 Feb 3	2.48	Jul 1 1998
INSTANTANEOUS PEAK STAGE		2.32 Feb 3	.00	Sep 13 1995
INSTANTANEOUS LOW FLOW		.02 Aug 13	2.21	
ANNUAL RUNOFF (CFSM)	2.67	1.73	30.01	
ANNUAL RUNOFF (INCHES)	36.32	23.46	25	
10 PERCENT EXCEEDS	31	21	6.5	
50 PERCENT EXCEEDS	6.8	3.4	.49	
90 PERCENT EXCEEDS	.98	.25		

PEEPTOAD BROOK, ELMDALE RD, NEAR NORTH SCITUATE, RI 01115098



PAWTUXET RIVER BASIN

01115187 PONAGANSET RIVER NEAR SOUTH FOSTER, RI

LOCATION.--Lat 41°49'07", long 71°42'20", Providence County, Hydrologic Unit 01090004, on left bank 5 ft downstream from bridge on Rams Tail Road, 0.3 mi south of South Foster and 0.4 mi upstream from Barden Reservoir.

DRAINAGE AREA.--13.7 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 355 ft above sea level, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--5 years, 29.2 ft³/s, 28.98 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 672 ft³/s, June 30, 1998, gage height, 6.37 ft; no flow part of each day, Sept. 8-13, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 455 ft³/s, Feb. 3, gage height, 5.06 ft; minimum, no flow, part or all of each day, Aug. 4-14, 18-26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	8.2	11	e14	e30	248	33	14	8.1	1.0	0.11	0.12
2	1.1	7.6	10	e11	54	141	28	14	7.5	1.4	.08	.11
3	.90	7.2	9.7	71	321	75	26	14	6.5	1.6	.06	.09
4	.89	6.9	9.5	151	124	141	24	17	5.7	2.4	.04	.08
5	.82	6.9	9.0	e59	99	105	23	30	4.9	3.6	.02	.07
6	.89	6.7	8.7	e37	66	78	21	27	4.2	2.6	.01	.07
7	.95	6.7	8.4	30	52	76	21	22	3.9	1.9	.00	.08
8	1.6	7.3	8.7	e45	45	e61	21	21	3.5	1.4	.00	.10
9	15	7.2	13	62	39	e54	20	24	3.1	1.1	.01	.12
10	34	6.6	12	87	36	52	21	19	3.0	.95	.00	3.6
11	50	25	9.8	e47	32	50	19	16	2.8	.79	.00	16
12	22	32	9.6	e34	31	49	26	14	2.7	.62	.01	7.7
13	14	16	8.5	30	42	48	23	12	2.7	.62	.00	3.9
14	12	12	8.3	44	37	51	20	11	2.9	.59	.04	2.4
15	22	11	7.7	139	30	57	18	9.7	2.9	.52	.09	2.1
16	15	9.9	7.5	195	27	53	17	8.9	2.4	.42	.09	84
17	12	11	7.8	79	26	59	27	8.3	2.2	.35	.08	196
18	10	12	9.6	69	50	83	25	8.2	2.4	.29	.05	45
19	9.4	11	8.8	196	88	77	20	9.6	2.2	.38	.01	19
20	8.9	11	8.4	89	53	58	19	27	1.9	.57	.00	11
21	8.6	12	8.1	56	40	49	19	22	1.7	.52	.00	8.3
22	8.4	11	8.9	48	32	116	18	14	1.5	.45	.02	7.8
23	8.1	10	10	47	e27	95	25	12	1.5	.41	.04	7.2
24	7.8	9.5	9.4	112	24	68	30	37	1.4	.37	.01	6.0
25	7.5	8.7	e8.4	176	24	74	24	87	1.2	.33	.00	5.2
26	7.4	17	e8.4	82	26	58	20	39	1.1	.31	.08	4.4
27	7.1	41	e8.0	55	25	50	19	24	.89	.29	.27	3.9
28	7.3	20	8.2	47	32	57	17	19	.85	.24	.38	3.4
29	9.2	14	9.8	40	---	58	15	15	.83	.20	.30	3.4
30	11	12	29	e33	---	49	15	12	.79	.15	.21	5.7
31	9.1	---	e21	e28	---	44	---	9.9	---	.13	.16	---
TOTAL	324.05	377.4	315.2	2213	1512	2334	654	617.6	87.26	26.50	2.17	446.84
MEAN	10.5	12.6	10.2	71.4	54.0	75.3	21.8	19.9	2.91	.85	.070	14.9
MAX	50	41	29	196	321	248	33	87	8.1	3.6	.38	196
MIN	.82	6.6	7.5	11	24	44	15	8.2	.79	.13	.00	.07
CFSM	.76	.92	.74	5.21	3.94	5.50	1.59	1.45	.21	.06	.01	1.09
IN.	.88	1.02	.86	6.01	4.11	6.34	1.78	1.68	.24	.07	.01	1.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1999, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999
MEAN	14.5	21.3	37.0	57.2	48.0	56.1
MAX	46.9	32.7	103	71.4	59.5	76.5
(WY)	1997	1997	1997	1999	1998	1998
MIN	1.03	12.4	10.2	40.8	30.7	40.2
(WY)	1998	1998	1999	1995	1995	1999

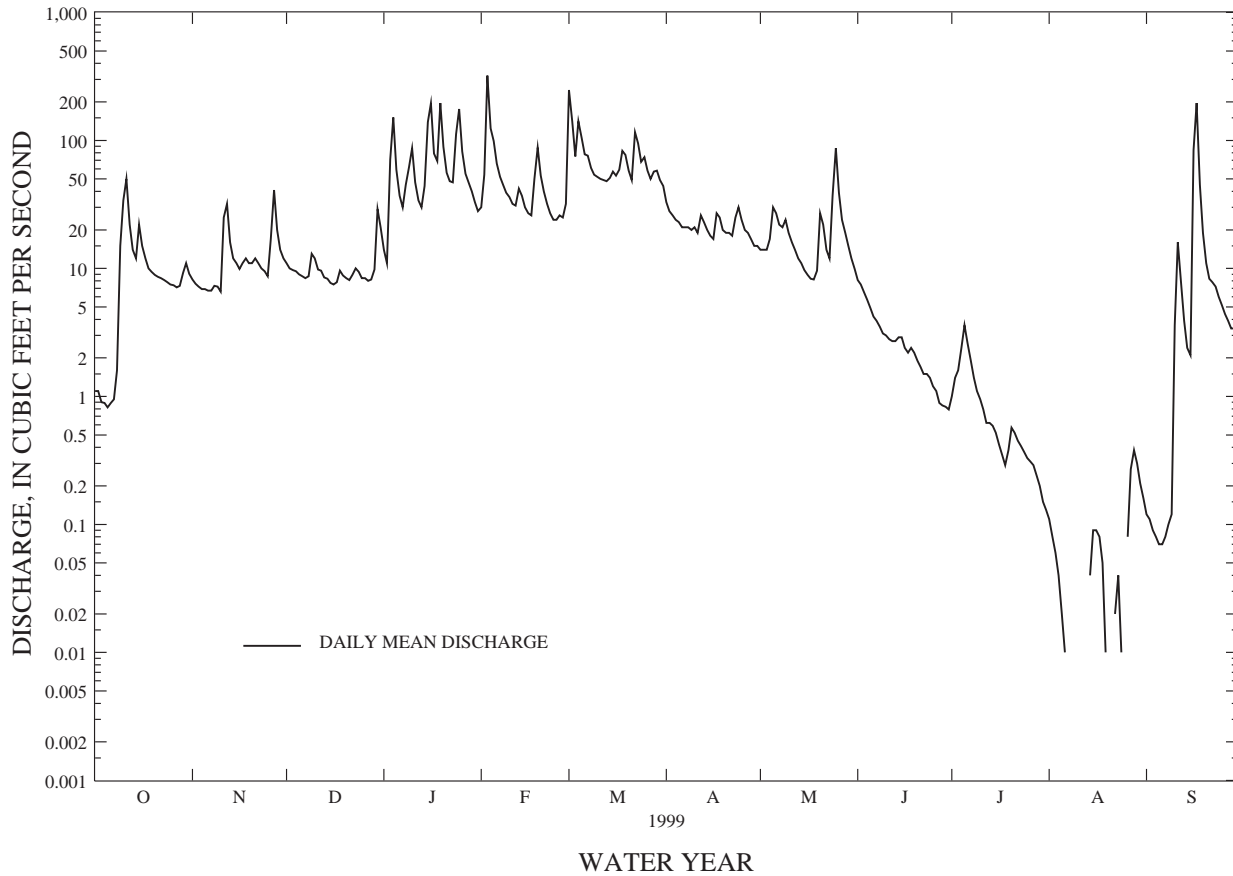
PAWTUXET RIVER BASIN

0115187 PONAGANSET RIVER NEAR SOUTH FOSTER, RI--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1994 - 1999	
ANNUAL TOTAL	13725.65		8910.02		29.2	
ANNUAL MEAN	37.6		24.4		37.2	
HIGHEST ANNUAL MEAN					19.3	
LOWEST ANNUAL MEAN					19.3	
HIGHEST DAILY MEAN	447	Jun 14	321	Feb 3	447	Jun 14 1998
LOWEST DAILY MEAN	.82	Oct 5	.00	Aug 7	.00	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	.95	Oct 1	.00	Aug 7	.00	Aug 7 1999
INSTANTANEOUS PEAK FLOW			455	Feb 3	672	Jun 30 1998
INSTANTANEOUS PEAK STAGE			5.06	Feb 3	6.37	Jun 30 1998
INSTANTANEOUS LOW FLOW			.00	Aug 4	.00	Sep 3 1995
ANNUAL RUNOFF (CFSM)	2.74		1.78		2.13	
ANNUAL RUNOFF (INCHES)	37.27		24.19		28.98	
10 PERCENT EXCEEDS	85		59		65	
50 PERCENT EXCEEDS	21		10		16	
90 PERCENT EXCEEDS	2.3		.14		.79	

e Estimated

PONAGANSET RIVER NEAR SOUTH FOSTER, RI 0115187



PAWTUXET RIVER BASIN

01116000 SOUTH BRANCH PAWTUXET RIVER AT WASHINGTON, RI

LOCATION.--Lat 41°41'24", long 71°33'59", Kent County, Hydrologic Unit 01090004, on right bank 150 ft downstream from highway bridge at Washington and 0.9 mi upstream from outlet of Tiogue Lake.

DRAINAGE AREA.--63.8 mi².

PERIOD OF RECORD.--Discharge: October 1940 to current year.
Water-quality records: Water years 1955-1956, 1963.

GAGE.--Water-stage recorder. Datum of gage is 217.76 ft above sea level.

REMARKS.--Records good. Flow regulated by Flat River Reservoir 2 mi upstream, usable capacity, 250,000,000 ft³, and smaller reservoirs. Prior to May 1972, diversion from Carr Pond for municipal supply of Coventry, Warwick, and West Warwick.

AVERAGE DISCHARGE.--59 years, 131 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980 ft³/s, June 6, 1982, gage height, 5.30 ft; minimum daily, 2.8 ft³/s, Aug. 27, 1944.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1936 reached a discharge of 1,810 ft³/s, by computation of flow over dam just upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 656 ft³/s, Sept. 17, gage height, 3.14 ft; minimum, 11 ft³/s, Aug. 25, 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	124	89	32	271	258	104	80	85	34	33	12
2	32	123	88	31	290	251	104	78	81	34	31	12
3	28	121	88	69	397	258	105	76	78	34	31	12
4	27	121	88	89	550	264	115	89	70	46	31	12
5	26	121	88	86	483	273	120	116	65	38	31	12
6	25	119	86	140	401	282	124	129	61	36	31	15
7	24	118	85	143	348	326	126	124	57	34	31	14
8	25	118	77	162	316	324	124	116	55	34	37	17
9	49	116	44	178	293	288	119	118	51	34	34	16
10	92	115	42	179	282	265	119	113	51	34	33	57
11	128	128	41	170	277	255	115	99	51	34	33	128
12	119	126	40	167	275	250	124	89	51	34	33	98
13	98	121	40	162	275	246	126	81	51	36	33	99
14	91	119	40	160	271	245	121	74	56	35	33	85
15	131	118	40	210	267	251	114	68	51	34	37	104
16	112	117	40	214	263	247	109	64	37	34	33	250
17	96	120	41	192	262	249	123	60	36	34	32	602
18	91	121	37	203	272	253	128	59	36	34	31	520
19	88	110	31	260	273	251	120	62	35	36	30	330
20	88	51	31	243	266	245	113	95	34	36	29	241
21	88	54	31	235	262	242	109	119	34	34	29	191
22	87	87	32	249	257	258	105	110	34	34	29	183
23	85	89	31	248	231	251	85	98	34	34	16	181
24	85	89	31	270	180	249	101	162	34	34	13	178
25	85	88	31	300	182	251	105	267	33	34	11	176
26	85	98	31	354	181	245	101	238	33	34	35	175
27	85	97	31	336	180	243	91	168	33	34	53	173
28	85	93	31	305	195	250	85	138	33	34	21	171
29	88	90	32	289	---	203	82	121	33	33	15	169
30	99	90	42	280	---	110	80	107	34	33	13	167
31	124	---	34	277	---	105	---	95	---	33	13	---
TOTAL	2402	3202	1513	6233	8000	7688	3297	3413	1427	1076	895	4400
MEAN	77.5	107	48.8	201	286	248	110	110	47.6	34.7	28.9	147
MAX	131	128	89	354	550	326	128	267	85	46	53	602
MIN	24	51	31	31	180	105	80	59	33	33	11	12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1999, BY WATER YEAR (WY)

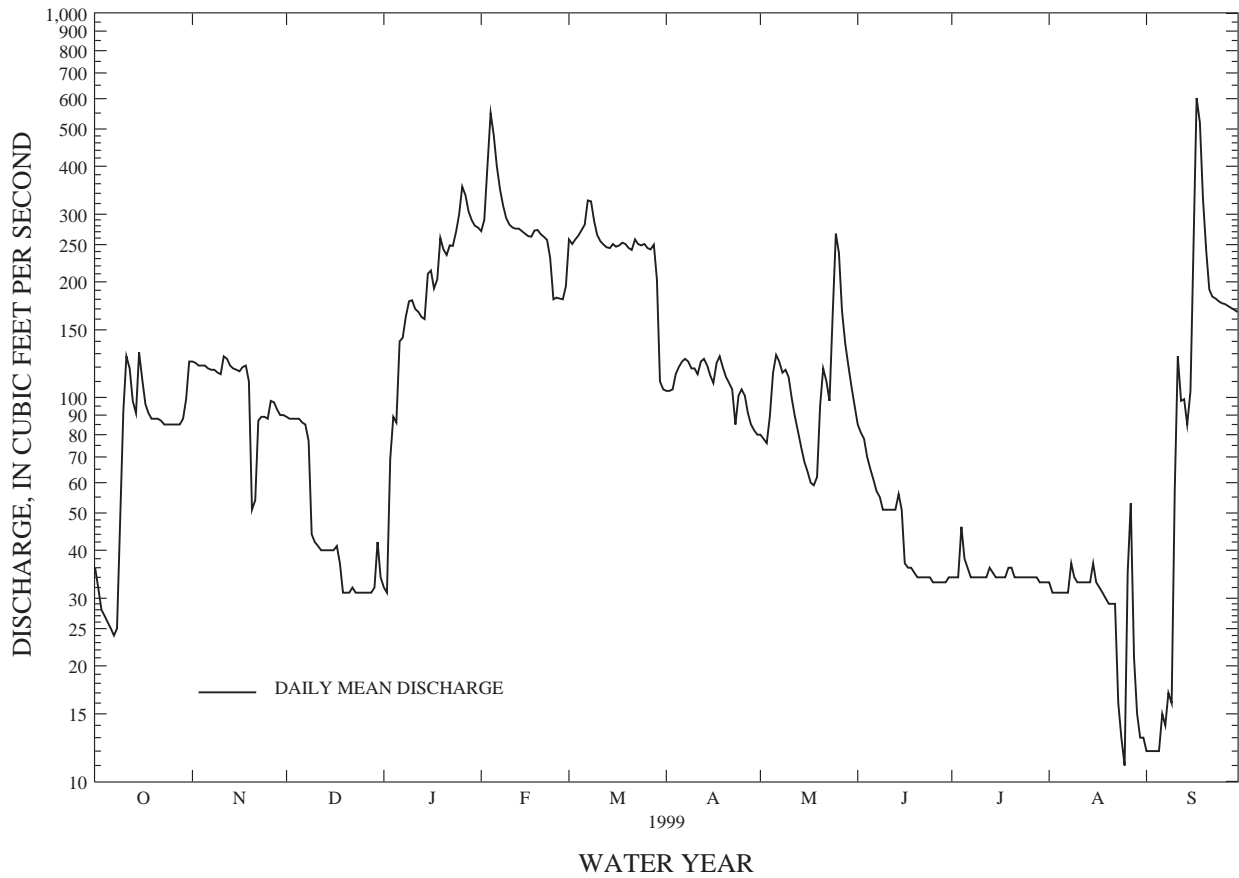
MEAN	72.4	104	159	171	183	226	212	150	109	64.1	61.3	64.7
MAX	216	354	422	489	327	434	595	294	444	136	168	240
(WY)	1956	1956	1987	1979	1970	1983	1983	1948	1982	1998	1979	1954
MIN	28.5	28.7	34.5	35.9	45.7	106	68.2	55.6	39.2	26.8	23.6	25.5
(WY)	1942	1966	1966	1966	1966	1944	1966	1992	1957	1995	1974	1995

PAWTUXET RIVER BASIN

01116000 SOUTH BRANCH PAWTUXET RIVER AT WASHINGTON, RI--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1941 - 1999	
ANNUAL TOTAL	65400		43546		131	
ANNUAL MEAN	179		119		202	
HIGHEST ANNUAL MEAN					1973	
LOWEST ANNUAL MEAN					56.9	
HIGHEST DAILY MEAN	892	Jun 15	602	Sep 17	1680	Jun 7 1982
LOWEST DAILY MEAN	18	Aug 25	11	Aug 25	2.8	Aug 27 1944
ANNUAL SEVEN-DAY MINIMUM	27	Oct 2	12	Aug 30	9.3	Jun 23 1980
INSTANTANEOUS PEAK FLOW			656	Sep 17	1980	Jun 6 1982
INSTANTANEOUS PEAK STAGE			3.14	Sep 17	5.30	Jun 6 1982
INSTANTANEOUS LOW FLOW			11	Aug 25		
10 PERCENT EXCEEDS	352		264		264	
50 PERCENT EXCEEDS	121		90		100	
90 PERCENT EXCEEDS	32		31		28	

SOUTH BRANCH PAWTUXET RIVER AT WASHINGTON, RI 01116000



PAWTUXET RIVER BASIN

01116500 PAWTUXET RIVER AT CRANSTON, RI

LOCATION.--Lat 41°45'03", long 71°26'44", Providence County, Hydrologic Unit 01090004, on left bank at Cranston, and 0.7 mi upstream from Pocasset River.

DRAINAGE AREA.--200 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1939 to current year.

REVISED RECORDS.--WSP 971: 1940-42. WSP 1381: 1940-41(M). WDR-MA-NH-RI-VT-73-1: 1972 (adjusted monthly and yearly figures only).

GAGE.--Water-stage recorder. Datum of gage is 8.00 ft above sea level.

REMARKS.--Records good except those for estimated daily discharge, which are poor. Flow regulated by powerplants and by Scituate Reservoir 13 mi upstream, Flat River Reservoir, and other reservoirs, combined usable capacity, about 6,000,000,000 ft³. Diversion from Scituate Reservoir for municipal supply of Providence, East Providence, North Providence, Cranston, Greenville, Johnston, East Smithfield, Smithfield, Warwick, West Warwick, Coventry, East Greenwich, and West Greenwich. See table below for figures of diversion and monthend contents in Scituate Reservoir and five smaller reservoirs.

AVERAGE DISCHARGE.--59 years (water years 1941-99), 352 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,440 ft³/s, June 7, 1982, gage height, 14.5 ft, from floodmark; minimum daily, 22 ft³/s, Sept. 4, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,220 ft³/s, Sept. 17, gage height, 9.44 ft, minimum, 51 ft³/s, Sept. 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	189	164	e100	e660	1470	424	193	196	114	87	73
2	85	189	158	e90	e1200	1460	401	183	182	118	e84	71
3	80	183	156	e200	e1600	1330	384	175	176	122	e79	67
4	77	180	156	e330	e2000	1310	371	205	162	206	64	65
5	76	177	153	e280	e1700	1230	351	243	155	146	81	62
6	78	175	151	e350	e1400	1140	341	238	150	118	80	74
7	76	174	154	e400	e1200	1230	330	231	147	112	76	75
8	77	174	155	e500	e1000	1090	311	236	149	106	125	91
9	150	175	137	e560	e880	923	294	242	146	106	104	83
10	290	172	114	e500	773	814	295	222	145	108	86	414
11	309	314	110	e450	699	757	282	208	141	106	87	1470
12	233	240	106	e410	650	720	318	191	142	104	90	598
13	199	197	104	e500	697	679	302	180	143	112	89	305
14	206	185	104	e600	649	641	287	168	149	111	92	236
15	282	182	102	e700	595	720	280	159	158	108	165	228
16	209	182	102	e800	555	725	259	153	130	105	107	1100
17	178	205	101	e560	521	722	326	151	123	104	142	2040
18	164	212	104	e700	667	761	296	149	127	103	101	1490
19	156	193	93	e800	865	737	280	162	123	104	95	975
20	147	155	90	e700	831	691	262	246	121	113	85	686
21	151	145	90	e650	753	655	252	218	124	95	79	509
22	144	150	94	e700	670	888	254	208	118	93	74	420
23	144	165	90	e750	553	853	251	242	115	95	119	384
24	152	165	91	e800	431	828	272	607	117	95	79	357
25	154	161	88	e900	446	868	246	622	114	91	77	353
26	149	205	86	e1100	548	797	246	441	118	89	201	324
27	142	223	87	e950	674	740	231	344	113	88	905	303
28	140	186	93	e850	724	818	219	283	115	83	296	305
29	168	174	102	e780	---	750	208	245	115	82	151	292
30	151	172	176	e720	---	545	198	221	114	88	111	449
31	184	---	e110	e700	---	462	---	204	---	87	80	---
TOTAL	4844	5599	3621	18430	23941	27354	8771	7570	4128	3312	4091	13899
MEAN	156	187	117	595	855	882	292	244	138	107	132	463
MAX	309	314	176	1100	2000	1470	424	622	196	206	905	2040
MIN	76	145	86	90	431	462	198	149	113	82	64	62
(†)	4715	4642	4546	5497	5772	5675	5538	5560	5072	4572	4175	4290
(††)	99.8	96.1	92.1	92.7	92.3	93.7	97.3	118	163	160	141	120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1999, BY WATER YEAR (WY)

	191	283	404	463	493	604	597	392	276	173	176	181
MEAN	191	283	404	463	493	604	597	392	276	173	176	181
MAX	667	1024	1344	1238	1085	1291	1788	848	1237	442	438	698
(WY)	1956	1956	1973	1979	1970	1983	1983	1998	1982	1998	1955	1954
MIN	70.5	82.6	94.0	100	158	239	140	160	93.0	74.9	82.4	83.2
(WY)	1958	1966	1966	1966	1966	1981	1966	1965	1957	1957	1966	1981

PAWTUXET RIVER BASIN

01116500 PAWTUXET RIVER AT CRANSTON, RI--Continued

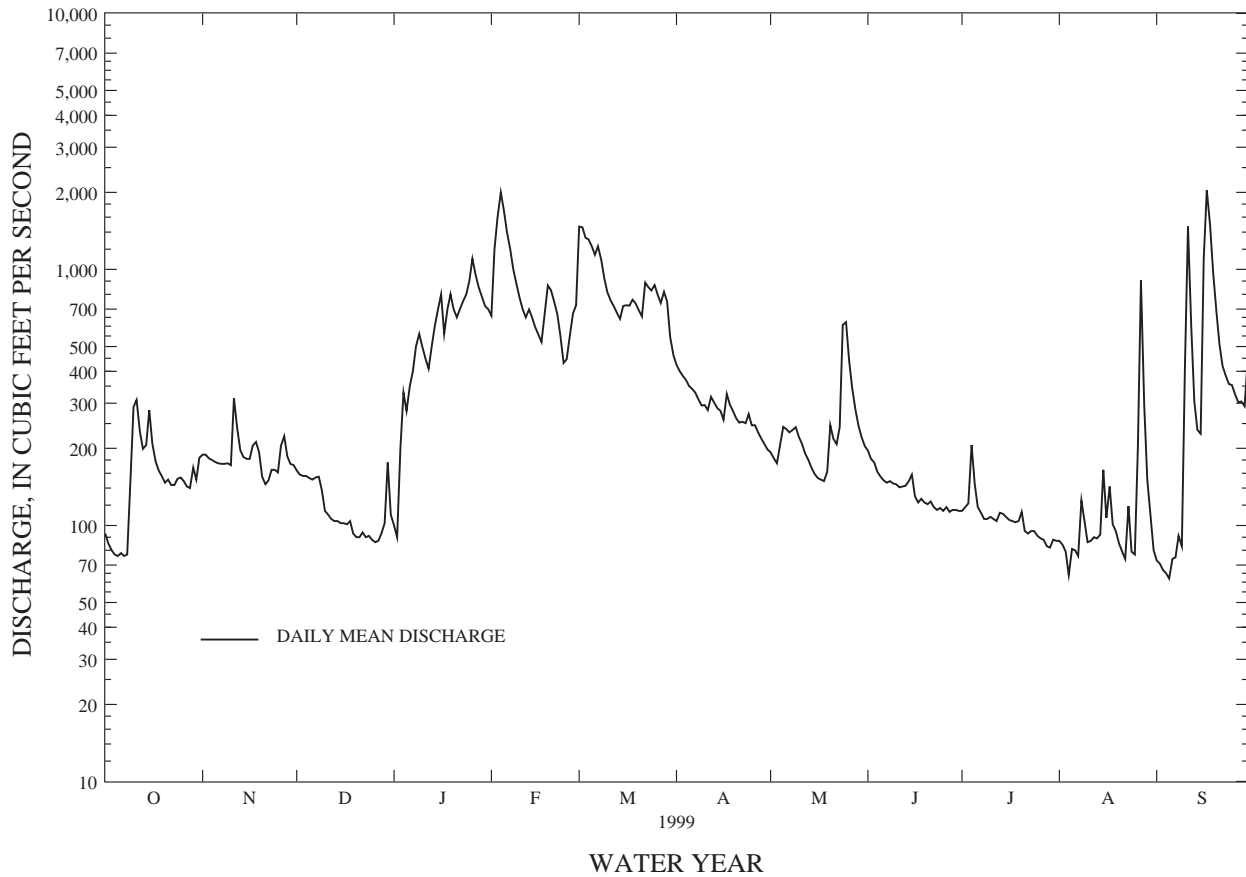
SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1940 - 1999	
ANNUAL TOTAL	185347		125560			
ANNUAL MEAN	508		344		352	
HIGHEST ANNUAL MEAN					595	
LOWEST ANNUAL MEAN					126	
HIGHEST DAILY MEAN	3150	Mar 10	2040	Sep 17	5170	Jun 7 1982
LOWEST DAILY MEAN	76	Oct 5	62	Sep 5	22	Sep 4 1944
ANNUAL SEVEN-DAY MINIMUM	78	Oct 2	70	Sep 1	48	Aug 12 1985
INSTANTANEOUS PEAK FLOW			2220		5440	
INSTANTANEOUS PEAK STAGE			9.44		14.50	
INSTANTANEOUS LOW FLOW			51		51	
10 PERCENT EXCEEDS	1140		800		750	
50 PERCENT EXCEEDS	259		189		243	
90 PERCENT EXCEEDS	103		88		101	

e Estimated

(†) Monthend contents, in millions of cubic feet (mcf), of Scituate Reservoir and five smaller reservoirs. Monthend contents on September 30, 1998, 4873 mcf.

(††) Diversions, in cubic feet per second, for municipal supplies. Figures of diversion and monthend contents provided by Providence Water Supply Board.

PAWTUXET RIVER AT CRANSTON, RI 01116500



PAWTUXET RIVER BASIN

01116500 PAWTUXET RIVER AT CRANSTON, RI--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1961 to current year.

REMARKS.--Discharge computed by discharge measurements on the day of sampling. Instantaneous records are representative of the cross section while continuous records are based on point samples.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1969 to September 1981.

WATER TEMPERATURE: November 1961 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 693 μ S/cm, Mar. 11, 1980; minimum, 60 μ S/cm, Jan. 25, 1979.

WATER TEMPERATURE: Maximum recorded, 30.0°C, July 1, 1964, Aug. 14, 1973; minimum, 0.0°C on many days during winter periods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM HG) (00025)	OXYGEN, DIS-SOLVED OF (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)
------	------	---	--	--	----------------------------------	------------------------------------	--	---------------------------	---------------------------------------	--------------------------------------	---	--

NOV	18...	0830	209	264	6.6	4.5	8.0	40	1.8	766	11.0	91	<10
AUG	11...	0815	78	310	6.7	20.0	21.5	55	--	756	.6	7	14
SEP	15...	0900	209	239	6.7	22.5	20.5	58	--	762	5.7	63	24
	29...	0830	288	187	6.8	20.0	17.5	50	--	764	7.5	78	18

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, UM-MF (COLS./100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL /100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)
------	--	--	--	---	---	---	---	-----------------------------------	--	--

NOV	18...	2.0	33	41	--	--	--	--	--	--	23	
AUG	11...	<1.0	K18	K16	29	9.0	1.6	43	73	3	4.3	34
SEP	15...	3.0	K250	140	29	8.8	1.6	32	68	3	2.6	21
	29...	2.0	120	120	24	7.4	1.3	25	67	2	2.2	21

DATE	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	HY-DROXIDE WATER DIS IT FIELD (MG/L AS OH) (71834)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDE (MG/L) (00530)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-C, (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
------	---	--	--	--	--	---	---	---	---	---	---

NOV	18...	0	0	19	--	--	--	6	154	0.037	0.625
AUG	11...	0	0	28	17	56	0.33	160	<1	176	2.10
SEP	15...	0	0	17	14	46	.22	122	2	147	1.30
	29...	0	0	17	14	33	.21	96	3	115	.606

PAWTUXET RIVER BASIN

01116500 PAWTUXET RIVER AT CRANSTON, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC TOTAL (UG/L AS AS) (01002)
NOV											
18...	0.922	1.2	0.53	1.4	2.1	0.189	0.137	70	21	<1.0	<1
AUG											
11...	1.18	1.5	.54	1.7	3.8	.420	.362	<30	--	--	<1
SEP											
15...	.424	.55	.63	1.1	2.4	.204	.141	140	--	--	<1
29...	.606	.78	.29	.90	1.5	.200	.137	140	--	--	<3
DATE	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
NOV											
18...	<1	12	<1.0	<1.0	<1.0	<1.0	1.8	500	<1.0	84	87
AUG											
11...	--	--	--	<1.0	--	--	--	300	<1.0	160	--
SEP											
15...	--	--	--	<1.0	--	--	--	740	<1.0	190	--
29...	--	--	--	.10	--	--	--	690	.65	130	--
DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	PHENOLS TOTAL (UG/L) (32730)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV											
18...	<0.10	<1.0	1.9	<1	<0.20	10	<1.0	6.3	<4	4	55
AUG											
11...	<.10	--	--	--	<.20	--	--	5.5	<4	2	50
SEP											
15...	<.10	--	--	--	<.20	--	--	9.2	--	7	77
29...	<.10	--	--	--	<.20	--	--	7.0	<4	8	69

PAWTUXET RIVER BASIN

01116617 PAWTUXET RIVER AT PAWTUXET, RI

WATER-QUALITY RECORDS

LOCATION.--Lat 41°46'03", long 71°24'21", Providence County, Hydrologic Unit 01090004, at Warwick Ave. Road Bridge at Pawtuxet, and 3.2 mi downstream from Cranston Sewage Treatment Plant.

PERIOD OF RECORD.--Water years 1979 to current year.

REMARKS.--Discharge computed by discharge measurements on the day of sampling. Instantaneous records are representative of the cross section.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	
NOV												
18...	1130	281	278	6.7	6.0	9.0	40	2.8	768	9.0	77	<10
AUG												
11...	1130	100	344	6.5	24.0	22.0	16	--	757	.9	10	26
SEP												
15...	1330	367	281	6.7	27.0	21.0	52	--	761	4.9	55	19
29...	1200	356	217	6.9	25.0	18.0	45	--	763	6.4	67	17

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, UM-MF (COLS./100 ML) (31625)	E. COLI WATER TOTAL UREASE (COL /100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION PERCENT RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)
NOV											
18...	2.0	44	31	--	--	--	--	--	--	28	0
AUG											
11...	1.0	46	89	37	12	2.0	45	69	3	5.7	--
SEP											
15...	2.0	230	170	40	12	2.2	36	64	2	3.5	0
29...	2.0	110	K40	30	9.4	1.7	26	63	2	2.7	0

DATE	HY-DROXIDE WATER DIS IT FIELD (MG/L AS OH) (71834)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)
NOV												
18...	0	23	--	--	--	--	10	169	0.055	0.828	1.33	1.7
AUG												
11...	--	--	21	59	0.45	181	1	198	.222	2.64	2.31	3.0
SEP												
15...	0	23	17	52	.28	142	<1	170	.099	.896	.509	.66
29...	0	30	16	37	.27	116	3	129	.119	.985	.462	.59

