

01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, NH

LOCATION.--Lat 44°52'39", long 71°03'28", Coos County, Hydrologic Unit 01040001, on left bank, 0.8 mi downstream of confluence of Swift Diamond River and Dead Diamond River, 0.8 mi upstream from mouth, 1.3 mi north of Wentworth Location, and 7.7 mi northeast of Errol.

DRAINAGE AREA.--152 mi².

PERIOD OF RECORD.--Discharge records: July 1941 to current year.

REVISED RECORDS.--WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,259.48 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for periods of estimated daily discharges, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,800 ft³/s, March 31, 1998, gage height, 12.11 ft, from rating curve extended above 7,500 ft³/s; maximum gage height, 12.23 ft, February 21, 1981 (ice jam); minimum discharge, 6.8 ft³/s, August 27, 28, 1949, September 1, 1952, gage height, 0.81 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 14	1830	7,240	9.73	Jun. 12	1445	4,150	7.97
Apr. 17	1915	* 8,070	* 10.13				

Minimum discharge, 9.1 ft³/s, September 10, 11, gage height, 1.34 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	111	988	e87	e88	e121	e504	512	1750	175	58	12
2	42	185	704	e84	e85	e93	e522	639	1130	189	43	12
3	39	249	397	e82	e83	e91	e463	846	699	171	40	12
4	38	203	289	e80	e82	e241	712	870	479	142	35	12
5	36	178	269	e78	e80	e318	476	998	477	123	32	11
6	36	231	273	e76	e79	e185	339	1120	1380	139	29	11
7	49	191	226	e75	e76	e125	277	1100	704	132	46	10
8	71	156	183	e80	e73	e102	270	1080	456	116	50	9.9
9	75	150	e154	e77	e70	e95	300	671	364	115	37	9.8
10	89	155	e114	e76	e66	e467	1290	614	300	135	30	9.2
11	103	138	e130	e80	e69	e557	1010	516	350	100	27	10
12	74	121	e125	e80	e75	e409	1100	386	2900	82	25	24
13	58	e102	e130	e80	e74	e305	2640	398	2130	71	23	27
14	52	e108	e165	e72	e67	e260	6220	738	783	63	21	23
15	55	e129	e163	e76	e63	e267	5490	1030	540	64	20	85
16	109	363	e92	e74	e63	e227	4520	852	543	100	18	185
17	95	336	e93	e72	e64	e189	6610	1700	494	79	18	118
18	123	201	e121	e70	e61	e181	7040	1150	481	102	16	63
19	102	169	e124	e69	e59	e160	4470	732	403	82	16	41
20	86	174	e118	e67	e59	e152	2670	545	309	104	16	31
21	91	195	e110	e66	e61	e139	1350	457	251	73	16	26
22	295	153	e96	e65	e86	e125	758	403	215	57	15	33
23	190	135	e97	e65	e324	e124	576	336	205	54	17	51
24	136	124	e129	e83	e179	e131	460	298	290	102	18	40
25	134	135	e117	e160	e92	e120	432	286	201	72	18	31
26	381	220	e106	e125	e85	e123	522	272	272	51	16	26
27	209	238	e101	e108	e114	e100	466	269	601	44	15	26
28	171	184	e97	e100	e138	e122	409	225	430	44	14	629
29	137	171	e94	e96	---	e117	378	203	275	42	13	257
30	125	441	e92	e92	---	e144	355	216	198	49	13	128
31	112	---	e89	e89	---	e312	---	1190	---	86	13	---
TOTAL	3358	5646	5986	2584	2515	6102	52629	20652	19610	2958	768	1962.9
MEAN	108	188	193	83.4	89.8	197	1754	666	654	95.4	24.8	65.4
MAX	381	441	988	160	324	557	7040	1700	2900	189	58	629
MIN	36	102	89	65	59	91	270	203	198	42	13	9.2
CFSM	0.71	1.24	1.27	0.55	0.59	1.29	11.5	4.38	4.30	0.63	0.16	0.43
IN.	0.82	1.38	1.46	0.63	0.62	1.49	12.88	5.05	4.80	0.72	0.19	0.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2001, BY WATER YEAR (WY)

MEAN	263	334	228	167	148	290	1083	922	321	171	135	149
MAX	869	733	739	575	783	936	1754	2115	804	703	492	836
(WY)	1991	1964	1974	1995	1981	1998	2002	1972	1943	1996	1988	1954
MIN	40.9	83.2	53.4	53.9	43.4	54.6	402	297	105	35.1	15.0	16.8
(WY)	1953	1979	1979	1948	1942	1967	1972	1998	1963	1952	1952	1952

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1941 - 2002

ANNUAL TOTAL	99724	124770.9	
ANNUAL MEAN	273	342	351
HIGHEST ANNUAL MEAN			524
LOWEST ANNUAL MEAN			225
HIGHEST DAILY MEAN	5330	Apr 24	7040
LOWEST DAILY MEAN	a 26	Sep 19	9.2
ANNUAL SEVEN-DAY MINIMUM	28	Sep 14	10
MAXIMUM PEAK FLOW			8070
MAXIMUM PEAK STAGE			10.13
INSTANTANEOUS LOW FLOW			b 9.1
ANNUAL RUNOFF (CFSM)	1.80		2.25
ANNUAL RUNOFF (INCHES)	24.41		30.54
10 PERCENT EXCEEDS	522		701
50 PERCENT EXCEEDS	107		122
90 PERCENT EXCEEDS	42		27

a Also occurred on September 20, 2001.
b Also occurred on September 11, 2002.
c Estimated.

ANDROSCOGGIN RIVER BASIN

01053500 ANDROSCOGGIN RIVER AT ERROL, NH

LOCATION.--Lat 44°46'57", long 71°07'46", Coos County, Hydrologic Unit 01040001, on right bank, 0.4 mi downstream from Errol Dam, 0.4 mi northeast of Errol, and 0.6 mi upstream from Clear Stream.

DRAINAGE AREA.--1,046 mi².

PERIOD OF RECORD.--Discharge records: January 1905 to current year. November and December 1912, monthly discharges only, published in WSP 1301. Prior to 1922, published as "at Errol Dam." Records for water years 1923-44 have not been published but are available in the files of the U.S. Geological Survey.

PERIOD OF PRECIPITATION RECORD.--October 1998 to current year.

REVISED RECORDS.--WRD ME-81-1: Drainage area. WDR ME-97-1: 1906-43(M), 1978-84(M).

GAGE.--Water-stage recorder. Datum of gage is 1,227.30 ft above National Geodetic Vertical Datum of 1929. Prior to December 8, 1943, nonrecording gage at Errol Dam at datum 5.0 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Azisochos, and Umbagog Lakes, combined usable capacity, 28 billion ft³, with final regulation at Errol Dam, 0.4 mi upstream. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft³/s, May 22, 1969, gage height, 9.40 ft; minimum daily discharge, leakage only at various times when gates in dam were closed in water years 1918, 1919, 1923, 1924, 1928, and 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,800 ft³/s, April 18, gage height, 7.56 ft; minimum daily discharge, 797 ft³/s, May 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUE

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1310	1220	890	1140	1130	1130	1120	873	4070	1580	1510	1300
2	1310	1220	838	1140	1140	1130	1120	797	4780	2110	1510	1290
3	1300	1220	841	1130	1140	1130	1120	1370	4790	2490	1510	1290
4	1310	1220	911	1130	1130	1130	1120	1680	4640	2510	1510	1290
5	1300	1220	951	1130	1130	1130	1130	2090	3910	2500	1510	1290
6	1310	1130	952	1130	1130	1130	1130	2350	4850	2500	1510	1290
7	1310	1070	963	1130	1140	1130	1130	2490	5540	2080	1500	1290
8	1310	1080	964	1130	1130	1130	1130	2570	4830	1850	1510	1290
9	1310	1120	964	1130	1130	1130	1130	2560	2930	1850	1500	1290
10	1310	1130	1000	1130	1130	1130	1130	2140	2370	1590	1510	1320
11	1310	1130	1020	1130	1130	1130	1130	1900	2500	1450	1510	1340
12	1240	1130	1030	1130	1130	1130	1130	1890	4270	1450	1510	1340
13	1210	1130	1030	1130	1140	1130	1950	2300	5980	1450	1510	1340
14	1210	1130	1070	1140	1130	1130	4420	3440	6520	1450	1510	1340
15	1210	1130	1090	1140	1130	1130	6530	5200	6480	1450	1510	1340
16	1210	1130	1090	1140	1130	1130	8080	4700	5500	1450	1510	1340
17	1210	1130	1090	1140	1140	1130	8770	4730	4910	1490	1510	1340
18	1220	1130	1090	1140	1130	1130	10600	5310	4310	1510	1510	1340
19	1320	1130	1090	1140	1130	1130	10300	5300	2940	1510	1510	1340
20	1220	1130	1090	1130	1130	1130	7320	3730	1970	1510	1510	1340
21	1220	1130	1090	1130	1130	1130	3820	2540	1800	1510	1550	1340
22	1220	1130	1120	1130	1130	1130	1880	2130	1730	1510	1570	1340
23	1220	1130	1140	1140	1130	1130	1200	1890	1650	1510	1550	1340
24	1230	1130	1140	1140	1130	1130	1050	1890	1650	1510	1500	1340
25	1230	1130	1140	1140	1130	1120	1640	1890	1650	1510	1510	1340
26	1230	1130	1140	1140	1130	1130	2120	1880	1790	1510	1510	1340
27	1230	1130	1140	1140	1130	1150	1700	1880	1990	1510	1380	1340
28	1230	1130	1140	1140	1130	1120	1460	1870	1860	1510	1300	1340
29	1220	1130	1140	1140	---	1120	1480	1530	1730	1510	1300	1340
30	1220	1040	1140	1140	---	1120	1210	1550	1650	1510	1300	1330
31	1220	---	1140	1130	---	1120	---	2340	---	1510	1300	---
TOTAL	38910	34140	32434	35190	31690	35000	89050	78810	105590	52390	45950	39730
MEAN	1255	1138	1046	1135	1132	1129	2968	2542	3520	1690	1482	1324
MAX	1320	1220	1140	1140	1140	1150	10600	5310	6520	2510	1570	1340
MIN	1210	1040	838	1130	1130	1120	1050	797	1650	1450	1300	1290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2002, BY WATER YEAR (WY)

MEAN	1584	1544	1694	1785	1850	1854	2169	3092	2269	1778	1680	1682
MAX	3949	3745	4722	3589	3644	5454	4736	8192	7129	4621	2265	4738
(WY)	1955	1908	1974	1970	1996	1936	1913	1974	1917	1996	1990	1954
MIN	921	759	844	760	718	592	770	1027	763	808	840	902
(WY)	1922	1922	1909	1909	1911	1948	1940	1941	1911	1915	1915	1911

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1905 - 2002
ANNUAL TOTAL	561194	618884	
ANNUAL MEAN	1538	1696	1914
HIGHEST ANNUAL MEAN			3117
LOWEST ANNUAL MEAN			1046
HIGHEST DAILY MEAN	8540	Apr 26	16100
LOWEST DAILY MEAN	815	Apr 15	797
ANNUAL SEVEN-DAY MINIMUM	876	Apr 14	907
MAXIMUM PEAK FLOW			10800
MAXIMUM PEAK STAGE			7.56
10 PERCENT EXCEEDS	1920		2500
50 PERCENT EXCEEDS	1310		1230
90 PERCENT EXCEEDS	1120		1120

a As explained under Extremes for Period of Record.

ANDROSCOGGIN RIVER BASIN

01054000 ANDROSCOGGIN RIVER NEAR GORHAM, NH

LOCATION.--Lat 44°26'10", long 71°11'27", Coos County, Hydrologic Unit 01040001, on right bank at Pulsifer Rips, 2.2 mi downstream from Dead River, and 4.0 mi upstream from Gorham.

DRAINAGE AREA.--1,361 mi².

PERIOD OF RECORD.--Discharge records: October 1913 to current year. October 1922 to September 1928, monthly discharge only, published in WSP 1301. Discharges for water year 1918 not used in long-term statistics because of unknown discharge on December 25, 1917. Prior to October 1928, published as "at Berlin."

REVISED RECORDS.--WDR ME-81-1: Drainage area. WDR ME-97-1: 1913-28(M).

GAGE.--Water-stage recorder. Datum of gage is 832.88 ft above National Geodetic Vertical Datum of 1929. Prior to September 30, 1922, nonrecording gage showing head and tailwater elevations at site 3 mi upstream at different datum.

REMARKS.--Records good except those for estimated discharges, which are fair. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes. These reservoirs have a combined usable capacity of about 28.1 billion ft³ with final regulation at Errol Dam 35 mi upstream. Diurnal fluctuations caused by power plant 0.8 mi upstream. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,900 ft³/s, estimated, April 30, 1923; minimum daily discharge, leakage only, December 25, 1917, when gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,000 ft³/s, April 18, gage height, 9.14 ft; minimum daily discharge, 1,160 ft³/s, December 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1430	1380	1640	1250	1320	1440	2340	2140	4160	1880	1630	1290
2	1390	1380	1600	1290	1340	1400	2550	2120	5400	1900	1600	1300
3	1390	1410	1280	1280	e1350	1440	2770	2460	5240	2560	1570	1290
4	1390	1370	1230	e1280	1360	1630	3120	2950	4950	2480	1540	1280
5	1390	1470	1240	1250	1310	1600	2510	2750	4300	2500	1540	1270
6	1390	1460	1240	1260	e1300	1510	2140	3130	5180	2590	1540	1270
7	1400	1420	1220	1280	1280	1440	1940	3150	6250	2380	1540	1290
8	1410	1340	1170	1270	1280	1370	1850	3250	5760	1940	1530	1280
9	1410	1370	1180	1260	e1290	1370	1980	3100	3870	1940	1530	1280
10	1390	1390	1160	1270	e1290	2080	3480	2860	2640	1860	1520	1290
11	1420	1390	1200	1270	e1380	2470	3540	2430	2860	1560	1540	1360
12	1400	1300	1180	1270	e1400	2070	3280	2290	10600	1520	1520	1360
13	1310	1300	1210	1270	e1410	1810	4750	2550	11900	1500	1490	1340
14	1280	1290	1210	1270	e1390	1770	12900	4310	8790	1510	1540	1360
15	1340	1280	1320	1270	1350	1840	12900	6180	7720	1520	1510	1430
16	1330	1380	1260	1270	1320	1740	12900	6850	7140	1510	1530	1640
17	1350	1480	1250	1280	1310	1600	12700	5680	5660	1510	1510	1520
18	1350	1390	1280	1270	1300	1540	15100	6570	5290	1680	1520	1410
19	1340	1350	1270	e1280	e1300	1540	14600	6180	3850	1720	1530	1390
20	1420	1340	1260	1260	1270	1490	11900	5490	2930	1630	1560	1380
21	1360	1350	1260	1260	1310	1490	6510	3360	2140	1630	1510	1380
22	1490	1310	1250	1260	1400	1450	4140	2980	2100	1640	1570	1390
23	1470	1300	1400	1260	1420	1410	2360	2460	1990	1620	1580	1400
24	1420	1290	1350	1310	1430	1440	1640	2390	2270	1700	1510	1370
25	1400	1280	1320	1340	1370	1370	1580	2280	2080	1610	1520	1360
26	1420	1330	1290	1340	1360	1370	2890	2270	2100	1590	1530	1360
27	1410	1400	1290	1330	1460	1450	2680	2300	2420	1540	1440	1420
28	1390	1360	1280	1320	1500	1430	2160	2240	2800	1540	1300	1840
29	1370	1360	1270	1310	---	1400	2210	2030	2440	1580	1300	1700
30	1360	1480	1260	1330	---	1520	2220	1720	2000	1660	1310	1510
31	1330	---	1260	1310	---	1880	---	2300	---	1700	1280	---
TOTAL	42950	40950	39630	39770	37800	49360	157640	102770	136830	55500	46640	41760
MEAN	1385	1365	1278	1283	1350	1592	5255	3315	4561	1790	1505	1392
MAX	1490	1480	1640	1340	1500	2470	15100	6850	11900	2590	1630	1840
MIN	1280	1280	1160	1250	1270	1370	1580	1720	1990	1500	1280	1270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2002, BY WATER YEAR (WY)

MEAN	2044	2094	2132	2140	2160	2497	3967	4265	2805	2080	1924	1970
MAX	4894	4292	5811	4044	4294	7684	6474	10050	10560	5840	2792	6387
(WY)	1955	1991	1974	1970	1996	1936	1976	1937	1917	1996	1990	1954
MIN	1374	1365	1257	1276	1299	1376	1755	1746	1545	1524	1462	1330
(WY)	1942	2002	1953	1953	1922	1922	1965	1941	1915	1980	1995	1995

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1914 - 2002

ANNUAL TOTAL	719830	791600										
ANNUAL MEAN	1972	2169								2511		
HIGHEST ANNUAL MEAN										4147		1996
LOWEST ANNUAL MEAN										1689		1965
HIGHEST DAILY MEAN	16400	Apr 25	15100	Apr 18	20000	Jun 18	1917					
LOWEST DAILY MEAN	1160	Dec 10	1160	Dec 10	795	Mar 15	1948					
ANNUAL SEVEN-DAY MINIMUM	1190	Dec 8	1190	Dec 8	866	Mar 10	1948					
MAXIMUM PEAK FLOW			16000	Apr 18	21900	Apr 30	1923					
MAXIMUM PEAK STAGE			9.14	Apr 18								
10 PERCENT EXCEEDS	2400		3410		3750							
50 PERCENT EXCEEDS	1560		1440		2010							
90 PERCENT EXCEEDS	1320		1270		1590							

e Estimated.

SACO RIVER BASIN

01064300 ELLIS RIVER NEAR JACKSON, NH

LOCATION.--Lat 44°13'08", long 71°14'59", Carroll County, Hydrologic Unit 01060002, in White Mountain National Forest, on right bank, 0.4 mi upstream from small left-bank tributary, 1.3 mi upstream from bridge on State Highway 16, and 6 mi northwest of Jackson.

DRAINAGE AREA.--10.9 mi².

PERIOD OF RECORD.--Discharge records: December 1963 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,500 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to October 14, 1969, at site 0.3 mi downstream at different datum.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 14	0130	* 1,400	* 5.18	No other peaks greater than base discharge.			

Minimum discharge, 4.9 ft³/s, September 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	24	64	e10	10	e9.5	29	30	61	24	11	6.6
2	12	22	35	e10	e9.5	e8.6	25	29	43	23	11	6.5
3	12	19	26	9.8	e8.9	20	44	41	32	22	10	6.8
4	11	16	23	e8.8	8.0	23	43	36	28	20	9.9	6.8
5	10	18	25	8.9	6.8	e17	24	36	44	19	10	6.1
6	12	18	23	8.7	6.0	e15	19	48	113	18	11	5.7
7	12	19	21	8.8	6.4	10	17	78	44	18	15	5.6
8	11	18	17	8.2	6.2	9.6	15	78	35	17	12	5.5
9	11	21	16	8.2	5.7	12	28	42	32	20	11	5.3
10	13	17	16	8.6	5.7	123	129	64	29	17	10	5.2
11	15	15	15	8.7	e47	36	49	44	90	16	9.8	7.3
12	14	14	14	8.3	54	e25	45	32	390	15	9.6	11
13	13	14	15	8.1	11	e18	234	40	107	14	9.3	6.8
14	12	14	16	e8.9	8.5	18	647	55	60	14	9.0	6.4
15	17	15	15	8.1	8.1	16	257	52	55	15	8.6	9.3
16	16	32	15	7.9	8.2	18	272	58	56	14	8.7	16
17	22	23	e16	7.7	7.9	18	360	184	47	14	8.3	10
18	17	17	15	7.6	e7.1	14	384	71	40	26	8.1	8.2
19	14	17	13	7.2	e7.0	14	202	49	35	16	7.9	7.5
20	13	20	13	7.1	e6.9	12	123	40	32	15	8.7	7.2
21	13	15	12	7.1	e11	13	60	35	30	14	7.8	7.0
22	16	14	e11	7.1	13	13	43	33	31	14	7.8	7.5
23	13	13	e10	e7.0	9.9	e13	37	39	33	14	8.4	6.9
24	19	13	e13	e8.9	9.7	e10	31	63	44	13	7.7	6.5
25	18	15	13	9.4	8.5	e9.9	29	56	30	12	7.6	5.8
26	18	35	e12	8.3	8.9	e9.6	29	42	28	12	7.1	5.7
27	15	23	e12	7.9	11	11	26	48	31	12	6.9	7.6
28	13	21	e12	7.9	11	10	25	46	33	12	6.8	20
29	13	20	e12	8.3	---	e9.6	26	46	27	12	7.0	9.7
30	13	51	e11	9.1	---	17	26	65	25	14	7.3	8.2
31	12	---	e11	8.1	---	22	---	69	---	12	6.8	---
TOTAL	434	593	542	258.7	321.9	574.8	3278	1649	1685	498	280.1	234.7
MEAN	14.0	19.8	17.5	8.34	11.5	18.5	109	53.2	56.2	16.1	9.04	7.82
MAX	22	51	64	10	54	123	647	184	390	26	15	20
MIN	10	13	10	7.0	5.7	8.6	15	29	25	12	6.8	5.2
CFSM	1.28	1.81	1.60	0.77	1.05	1.70	10.0	4.88	5.15	1.47	0.83	0.72
IN.	1.48	2.02	1.85	0.88	1.10	1.96	11.19	5.63	5.75	1.70	0.96	0.80

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

MEAN	29.8	36.1	25.1	17.8	15.4	27.0	70.2	84.0	42.9	23.0	19.0	19.2
MAX	80.9	90.1	104	57.6	109	75.6	150	159	123	60.5	62.5	65.0
(WY)	1996	1970	1974	1986	1981	1998	1987	1984	1998	1996	1990	1999
MIN	9.15	9.29	6.54	4.34	3.07	6.05	23.1	45.7	16.1	10.0	7.46	6.98
(WY)	1970	1979	1979	1977	1977	1969	1995	1993	1970	2001	1980	1978

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1964 - 2002

ANNUAL TOTAL	8843.9	10349.2	
ANNUAL MEAN	24.2	28.4	34.3
HIGHEST ANNUAL MEAN			53.0
LOWEST ANNUAL MEAN			21.6
HIGHEST DAILY MEAN	453	Apr 24	647
LOWEST DAILY MEAN	5.5	Sep 17	5.2
ANNUAL SEVEN-DAY MINIMUM	5.6	Sep 13	5.7
MAXIMUM PEAK FLOW		b 1400	Apr 14
MAXIMUM PEAK STAGE		5.18	Apr 14
INSTANTANEOUS LOW FLOW		4.9	Sep 10
ANNUAL RUNOFF (CFSM)	2.22	2.60	3.15
ANNUAL RUNOFF (INCHES)	30.18	35.32	42.79
10 PERCENT EXCEEDS	44	48	69
50 PERCENT EXCEEDS	12	14	18
90 PERCENT EXCEEDS	7.3	7.2	8.2

a Also occurred on March 3, 4, 1980.

b From rating curve extended above 390 ft³/s on basis of slope-area measurements at gage height 10.34 ft.

c Gage height 10.34 ft from recorder, affected by drawdown; 18.9 ft from floodmarks, site and datum then in use.

d Minimum not determined, occurred during ice effect in March 1980.

e Estimated.

01064500 SACO RIVER NEAR CONWAY, NH

LOCATION.--Lat 43°59'27", long 71°05'29", Carroll County, Hydrologic Unit 01060002, on left bank, at Odell Falls, 1.8 mi downstream from Swift River and Conway.

DRAINAGE AREA.--385 mi².

PERIOD OF RECORD.--Discharge records: August 1903 to December 1909, January 1910 to June 1912 (gage heights only), February 1929 to current year. Monthly discharge only for some periods, published in WSP 1301. Prior to 1912, published as "at Center Conway."

REVISED RECORDS.--WSP 1301: 1908-09. WDR ME-81-1: Drainage area. WRD ME-87-1: 1936 (M), 1951 (M), 1953 (M), 1960 (M), 1977 (M).

GAGE.--Water-stage recorder. Datum of gage is 418.19 ft above National Geodetic Vertical Datum of 1929. August 26, 1903, to June 30, 1912, nonrecording gage at site 0.8 mi downstream at different datum.

REMARKS.--Records good except those for periods of estimated daily discharges, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,200 ft³/s, March 27, 1953, gage height, 17.20 ft; maximum gage height, 19.03 ft, March 7, 1979, (ice jam); minimum discharge, 40 ft³/s, March 16, 1932, gage height, 1.61 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 14	1130	* 22,700	* 11.47	No other peaks greater than base discharge.			
Minimum discharge, 72 ft ³ /s, September 12, gage height, 1.79 ft.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	258	214	1450	e195	e202	492	1730	1350	1100	458	190	98
2	224	266	1090	e170	e192	468	1950	1460	855	427	233	94
3	202	261	760	e161	e179	651	2050	1800	729	401	179	95
4	186	231	609	e155	e230	1290	2890	1670	637	382	159	100
5	174	269	535	e152	e204	892	1940	1460	596	357	148	99
6	165	403	513	e188	e184	751	1540	1410	1170	337	139	94
7	164	347	466	e195	e178	693	1330	1550	950	333	142	90
8	163	324	415	e189	e172	594	1230	1580	704	323	193	86
9	159	300	383	e182	e167	552	1190	1270	604	339	153	85
10	155	302	356	e197	e162	2340	2560	1250	539	355	139	81
11	158	279	340	e208	413	1990	2520	1230	520	292	131	77
12	174	254	325	e203	576	1300	2010	1030	3740	269	126	74
13	171	235	325	e202	559	1100	2920	1210	3520	251	120	102
14	159	226	354	e198	382	1030	14900	2740	1670	237	115	94
15	168	225	431	e193	393	1080	8080	2600	1290	245	110	102
16	243	267	378	e190	374	958	5880	2060	1710	258	108	237
17	256	468	327	e169	354	893	5840	2880	1380	261	105	309
18	298	349	351	e185	332	836	6090	2510	1150	312	101	186
19	242	295	339	e168	305	782	4110	2030	988	341	101	144
20	207	289	313	e167	314	737	3200	1640	870	265	103	127
21	192	303	306	e176	361	727	2250	1420	776	233	101	117
22	190	266	271	e178	476	686	1760	1290	715	212	100	112
23	193	243	236	e170	474	613	1540	1200	792	199	101	109
24	202	233	304	e196	410	610	1390	1190	934	197	103	104
25	260	226	318	283	401	546	1260	1200	764	189	101	100
26	264	390	274	278	384	546	1280	1040	643	176	99	98
27	258	522	e245	253	474	575	1190	999	640	169	95	101
28	223	400	221	240	645	617	1110	940	601	170	91	267
29	204	380	238	233	---	589	1250	879	541	172	92	320
30	192	495	236	253	---	810	1280	841	488	167	104	199
31	186	---	e210	247	---	1270	---	878	---	172	103	---
TOTAL	6290	9262	12919	6174	9497	27018	88270	46607	31616	8499	3885	3901
MEAN	203	309	417	199	339	872	2942	1503	1054	274	125	130
MAX	298	522	1450	283	645	2340	14900	2880	3740	458	233	320
MIN	155	214	210	152	162	468	1110	841	488	167	91	74
CFSM	0.53	0.80	1.08	0.52	0.88	2.26	7.64	3.91	2.74	0.71	0.33	0.34
IN.	0.61	0.89	1.25	0.60	0.92	2.61	8.53	4.50	3.05	0.82	0.38	0.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2002, BY WATER YEAR (WY)

	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	639	948	760	569	508	968	2630	2221	847	438	352	388																																																																																							
MAX	2369	2493	2656	1887	3170	5986	4564	4609	3644	2043	1685	1794																																																																																							
(WY)	1978	1908	1974	1986	1981	1936	1987	1940	1998	1973	1990	1954																																																																																							
MIN	114	211	152	144	124	146	871	614	300	158	120	102																																																																																							
(WY)	1948	1909	1956	1940	1940	1940	1995	1941	1964	1991	2001	1948																																																																																							

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1904 - 2002
ANNUAL TOTAL	229444	253938	
ANNUAL MEAN	629	696	940
HIGHEST ANNUAL MEAN			1463
LOWEST ANNUAL MEAN			489
HIGHEST DAILY MEAN	9550	Apr 24	14900
LOWEST DAILY MEAN	79	Sep 18	74
ANNUAL SEVEN-DAY MINIMUM	81	Sep 14	84
MAXIMUM PEAK FLOW			22700
MAXIMUM PEAK STAGE		11.47	Apr 14
INSTANTANEOUS LOW FLOW		72	Apr 14
ANNUAL RUNOFF (CFSM)	1.63	1.81	2.44
ANNUAL RUNOFF (INCHES)	22.17	24.54	33.16
10 PERCENT EXCEEDS	1490	1540	2170
50 PERCENT EXCEEDS	286	312	460
90 PERCENT EXCEEDS	115	110	184

a Ice Jam.
e Estimated.

SACO RIVER BASIN

01064801 BEARCAMP RIVER AT SOUTH TAMWORTH, NH

LOCATION.--Lat 43°49'48", long 71°17'18", Carroll County, Hydrologic Unit 01060002, on right bank, 0.7 mi upstream of Sanger Brook, 0.8 mi east of South Tamworth, 1.0 mi downstream of Cold Brook, and 1.1 mi west of Whittier.

DRAINAGE AREA.--67.6 mi².

PERIOD OF RECORD.--Discharge records: April 1993 to current year. Published as "near South Tamworth" prior to October 1995.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 490 ft above National Geodetic Vertical Datum of 1929, from topographic map. Formerly published as Bear Camp River.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 14	0700	* 1,210	* 6.18	No other peaks greater than base discharge.			
Minimum discharge, 2.0 ft ³ /s, September 13, 14.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	25	251	e32	48	138	603	250	134	31	7.9	5.2
2	20	37	146	e29	e65	114	583	272	92	28	7.4	4.6
3	18	32	101	e32	e59	241	558	391	71	25	7.2	4.6
4	17	27	81	e29	e60	395	691	305	58	22	6.7	4.6
5	15	31	75	e30	e57	257	423	228	54	20	6.2	4.4
6	14	56	70	31	e53	185	304	191	61	18	5.8	3.8
7	14	44	62	32	e49	151	235	173	64	17	5.6	3.4
8	14	37	55	31	e45	125	198	147	53	16	5.8	3.1
9	16	36	53	30	e39	115	195	122	46	32	5.4	3.1
10	32	38	48	30	e37	477	355	122	39	29	4.9	2.6
11	28	34	45	34	e100	373	319	106	39	20	4.7	2.4
12	23	29	42	33	e150	252	250	96	220	17	4.4	2.1
13	20	26	42	32	e135	191	294	203	303	15	4.1	2.1
14	18	24	57	31	e110	184	882	727	172	14	3.8	2.1
15	20	24	80	30	e95	203	843	523	131	13	3.6	3.9
16	32	25	72	30	e90	178	642	331	158	12	3.5	4.7
17	35	29	61	27	e92	168	457	263	133	12	3.5	3.2
18	45	28	64	30	e85	146	348	241	106	24	3.1	1.7
19	31	25	59	27	e80	131	262	245	84	23	2.9	1.3
20	25	24	54	e26	75	120	209	200	71	18	3.0	1.1
21	21	24	52	e25	e95	122	168	165	59	15	3.1	9.4
22	20	23	43	e25	125	114	140	140	55	14	3.1	8.7
23	19	22	e45	e24	124	104	133	120	73	12	4.0	8.5
24	21	28	e60	e30	113	97	130	106	117	12	3.9	7.4
25	28	28	e56	e46	101	89	123	94	87	11	4.1	6.7
26	37	59	e50	e52	97	84	150	84	67	9.7	3.9	6.2
27	33	68	e47	51	144	100	149	74	59	9.4	3.3	7.0
28	26	51	e43	46	175	125	136	61	52	9.7	3.0	2.2
29	23	47	e39	44	---	135	194	61	43	9.9	3.1	2.1
30	21	88	e37	57	---	265	241	56	36	9.6	6.2	1.4
31	20	---	e35	53	---	427	---	64	---	8.7	6.2	---
TOTAL	728	1069	2025	1059	2498	5806	10215	6161	2737	527.0	143.4	282.9
MEAN	23.5	35.6	65.3	34.2	89.2	187	340	199	91.2	17.0	4.63	9.43
MAX	45	88	251	57	175	477	882	727	303	32	7.9	4.7
MIN	14	22	35	24	37	84	123	56	36	8.7	2.9	2.1
CFSM	0.35	0.53	0.97	0.51	1.32	2.77	5.04	2.94	1.35	0.25	0.07	0.14
INF.	0.40	0.59	1.11	0.58	1.37	3.20	5.62	3.39	1.51	0.29	0.08	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2002, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		
MEAN	105	152	148	122	116	236	435	190	145	67.5	32.3	51.8
MAX	258	302	410	331	242	436	632	398	811	178	91.0	243
(WY)	1996	1996	1997	1996	1997	1998	1993	1996	1998	1996	1997	1999
MIN	23.5	35.6	60.3	34.2	40.3	86.7	129	77.4	34.7	17.0	4.63	9.43
(WY)	2002	2002	1998	2002	2001	2001	1995	1993	1999	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1993 - 2002

ANNUAL TOTAL	32959.7	33251.3	
ANNUAL MEAN	90.3	91.1	150
HIGHEST ANNUAL MEAN			217
LOWEST ANNUAL MEAN			91.1
HIGHEST DAILY MEAN	1270	Apr 24	5370
LOWEST DAILY MEAN	a 5.0	Aug 26	b 2.1
ANNUAL SEVEN-DAY MINIMUM	5.3	Sep 14	2.5
MAXIMUM PEAK FLOW			1210
MAXIMUM PEAK STAGE			6.18
INSTANTANEOUS LOW FLOW			c 2.0
ANNUAL RUNOFF (CFSM)	1.34		1.35
ANNUAL RUNOFF (INCHES)	18.14		18.30
10 PERCENT EXCEEDS	204		241
50 PERCENT EXCEEDS	36		44
90 PERCENT EXCEEDS	7.3		5.5

a Also occurred August 27, 2001, and September 19, 2001.
 b Also occurred September 13, 14, 2002.
 c Also occurred September 14, 2002.
 e Estimated.

PISCATAQUA RIVER BASIN

01072100 SALMON FALLS RIVER AT MILTON, NH

LOCATION.--Lat 43°24'48", long 70°59'15", Strafford County, Hydrologic Unit 01060003, on right bank, just downstream from Milton Pond at Milton, 4.2 mi east of Farmington, and 7.4 mi north of Rochester.

DRAINAGE AREA.--108 mi².

PERIOD OF RECORD.--Discharge records: October 1968 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 405 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for periods of datum corrections, August 26 through September 30, which are fair. Flow regulated by Great East and Lovell Lakes and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds. These reservoirs have a combined usable capacity of about 1.28 billion ft³.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,040 ft³/s, May 15, gage height, 4.41 ft; minimum daily discharge, 14 ft³/s, September 19-22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	99	38	22	44	137	379	324	138	61	22	16
2	25	99	38	22	44	135	403	304	147	61	22	16
3	25	99	38	22	45	145	381	307	137	60	23	16
4	24	98	38	22	45	214	360	303	122	58	22	16
5	24	99	37	22	45	247	321	287	114	45	22	16
6	24	99	37	22	45	224	283	203	159	32	22	15
7	24	98	36	22	44	195	239	152	205	32	22	15
8	24	97	36	23	44	173	161	157	194	28	22	15
9	24	97	36	23	44	157	103	156	172	28	22	15
10	24	96	30	23	44	174	118	157	146	28	22	15
11	64	96	23	23	44	217	105	156	128	27	21	15
12	94	95	23	23	44	224	95	153	135	27	20	15
13	96	63	23	23	45	206	105	169	195	26	20	15
14	97	39	24	23	44	186	141	692	247	25	20	15
15	103	39	24	23	44	116	288	983	253	26	20	15
16	160	39	24	23	44	52	349	555	244	26	20	15
17	194	38	24	23	44	53	253	327	241	26	20	15
18	189	38	24	23	45	53	199	386	205	26	20	15
19	182	38	24	23	54	53	187	424	170	26	20	14
20	181	39	24	23	61	59	172	393	171	25	20	14
21	180	37	24	23	62	75	151	300	154	25	20	14
22	178	37	23	23	66	87	96	239	145	25	20	14
23	146	37	23	23	78	93	74	240	156	25	20	15
24	99	37	24	23	88	96	83	228	164	24	18	15
25	100	37	24	34	125	98	92	207	150	24	18	15
26	100	38	24	43	146	103	122	183	117	23	17	15
27	100	38	24	43	140	104	154	169	87	24	16	15
28	100	38	23	44	140	190	183	129	72	24	16	15
29	100	38	23	44	---	280	259	104	60	23	16	15
30	99	38	23	44	---	317	345	105	60	23	16	15
31	99	---	22	44	---	348	---	115	---	22	16	---
TOTAL	2904	1880	858	841	1758	4811	6201	8607	4688	955	615	451
MEAN	93.7	62.7	27.7	27.1	62.8	155	207	278	156	30.8	19.8	15.0
MAX	194	99	38	44	146	348	403	983	253	61	23	16
MIN	24	37	22	22	44	52	74	104	60	22	16	14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2002, BY WATER YEAR (WY)

MEAN	178	194	220	174	185	313	431	223	135	66.6	59.5	74.2
MAX	499	487	604	384	439	720	908	431	650	181	165	162
(WY)	1978	1996	1984	1978	1970	1979	1969	1984	1998	1996	1982	1999
MIN	81.4	62.7	27.7	27.1	60.8	108	103	55.4	35.5	26.1	19.8	15.0
(WY)	1969	2002	2002	2002	1977	1993	1985	1985	1999	1991	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1969 - 2002

ANNUAL TOTAL	48482	34569	
ANNUAL MEAN	133	94.7	188
HIGHEST ANNUAL MEAN			307
LOWEST ANNUAL MEAN			94.7
HIGHEST DAILY MEAN	1190	Apr 15	983
LOWEST DAILY MEAN	22	Dec 31	a 14
ANNUAL SEVEN-DAY MINIMUM	23	Dec 25	14
MAXIMUM PEAK FLOW			1040
MAXIMUM PEAK STAGE		4.41	May 15
10 PERCENT EXCEEDS	281		226
50 PERCENT EXCEEDS	85		44
90 PERCENT EXCEEDS	26		18

a Also occurred September 20-22.

PISCATAQUA RIVER BASIN

01072800 COCHECO RIVER NEAR ROCHESTER, NH

LOCATION.--Lat 43°16'06", long 70°58'27", Strafford County, Hydrologic Unit 01060003, on right bank, directly behind Rochester Country Club, 0.6 mi south by southeast of Gonic, 2.5 mi south of Rochester City Hall, approximately 3.3 mi upstream from mouth of Isinglass River, and approximately 12.6 mi above mouth.

DRAINAGE AREA.--85.7 mi².

REVISED RECORDS.--WDR NH-VT-97-1: Drainage area.

PERIOD OF RECORD.--Discharge records: March 1995 to current year. Published as "at Rochester" prior to October 1996.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 125 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Some regulation by small hydro plants, Sunrise and Baxter Lakes, City Dam No. 1, and the Rochester Reservoirs. Low flows diverted from Berrys River (tributary to Isinglass River) to Rochester Reservoir (head of Howard Brook) then into the Rochester City water supply system. Unknown amount of diverted flow enters the Cochecho River Basin above the gage.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 15	0315	* 959	* 7.39	No other peak greater than base discharge.			

Minimum daily discharge, 2.0 ft³/s, September 14 and 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	16	26	21	51	100	316	208	e141	77	8.6	5.1
2	10	17	26	19	e52	84	360	189	e116	64	8.0	5.4
3	9.8	18	23	17	e49	166	271	330	81	55	6.9	6.1
4	11	19	20	17	e44	310	254	294	65	48	6.6	6.8
5	9.2	18	18	16	e39	214	222	202	60	41	6.5	6.0
6	7.8	19	16	16	e35	142	183	162	92	35	5.9	5.6
7	9.0	17	15	18	34	125	156	134	209	32	5.0	4.4
8	9.0	16	13	22	32	107	137	117	195	30	4.3	3.5
9	8.0	16	14	22	31	98	128	103	138	26	4.0	3.6
10	7.4	15	14	23	e28	154	123	106	103	25	3.8	3.4
11	7.6	13	13	24	e53	217	112	102	82	22	4.2	2.7
12	7.4	13	12	24	e60	166	102	91	125	20	4.3	2.5
13	7.2	12	12	31	63	135	97	144	266	18	5.2	2.3
14	7.0	11	14	37	e51	123	123	579	211	18	7.0	2.0
15	11	11	37	34	e43	110	181	804	184	18	4.0	2.0
16	11	9.9	39	31	42	100	239	456	235	18	3.3	13
17	21	11	35	29	47	91	194	308	210	16	3.0	14
18	15	11	44	27	48	84	154	265	160	16	3.1	9.8
19	10	12	44	e24	45	82	129	343	123	15	3.2	6.7
20	12	12	40	e24	46	81	117	286	104	15	3.1	5.8
21	18	11	37	e23	e70	95	103	213	93	15	3.0	4.9
22	20	9.8	32	e23	e107	114	91	176	105	14	2.5	4.4
23	19	9.6	28	23	119	101	88	147	159	13	3.2	7.4
24	18	9.5	35	27	99	93	87	125	172	15	3.0	7.7
25	20	9.3	42	36	86	93	86	110	140	12	3.4	5.0
26	20	11	40	40	81	95	130	93	102	11	3.2	4.5
27	19	11	36	43	96	283	178	84	79	11	2.9	5.3
28	18	10	30	40	121	436	160	78	80	11	2.4	12
29	18	12	27	39	---	355	191	72	100	12	2.6	10
30	17	20	25	51	---	292	225	66	93	11	10	9.1
31	15	---	22	59	---	310	---	e80	---	9.5	5.9	---
TOTAL	403.4	400.1	829	880	1672	4956	4937	6467	4023	743.5	142.1	181.0
MEAN	13.0	13.3	26.7	28.4	59.7	160	165	209	134	24.0	4.58	6.03
MAX	21	20	44	59	121	436	360	804	266	77	10	14
MIN	7.0	9.3	12	16	28	81	86	66	60	9.5	2.4	2.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2002, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	90.7	127	131	144	161	280	298	152
MAX	286	329	409	359	295	415	508	268
(WY)	1997	1996	1997	1996	1996	1998	1997	1996
MIN	13.0	13.3	26.7	28.4	59.7	160	127	66.5
(WY)	2002	2002	2002	2002	2002	2002	1999	2001

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1995 - 2002

ANNUAL TOTAL	33337.9	25634.1	
ANNUAL MEAN	91.3	70.2	140
HIGHEST ANNUAL MEAN			197
LOWEST ANNUAL MEAN			70.2
HIGHEST DAILY MEAN	1080	Apr 13	804
LOWEST DAILY MEAN	3.5	Sep 13	a 2.0
ANNUAL SEVEN-DAY MINIMUM	3.9	Sep 13	2.6
MAXIMUM PEAK FLOW			959
MAXIMUM PEAK STAGE			7.39
10 PERCENT EXCEEDS	264		186
50 PERCENT EXCEEDS	40		28
90 PERCENT EXCEEDS	8.7		5.3

a Also occurred on September 15.
e Estimated.

PISCATAQUA RIVER BASIN

01073000 OYSTER RIVER NEAR DURHAM, NH

LOCATION.--Lat 43°08'55", long 70°57'56", Strafford County, Hydrologic Unit 01060003, on left bank, 200 ft upstream from Old Concord Road bridge, 2.5 mi west of Durham, and 7 mi upstream from mouth.

DRAINAGE AREA.--12.1 mi².

PERIOD OF RECORD.--Discharge records: October 1934 to current year. October and November 1934 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 70 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to October 1, 1964, at datum 1.00 ft higher.

REMARKS.--Records good except those for estimated daily discharges and those below 1.0 ft³/s, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 170 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 14	0800	* 140	* 2.91	No other peak greater than base discharge.			
Minimum daily discharge, e0.15 ft ³ /s, September 14.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.74	0.81	2.3	2.5	6.6	9.8	46	27	21	7.3	0.55	e0.35
2	0.40	0.88	1.9	2.1	7.2	8.5	42	32	13	6.0	0.41	e0.30
3	0.38	1.1	1.3	2.0	5.9	31	33	43	9.6	5.1	0.50	e0.45
4	0.36	1.1	1.1	1.9	5.3	26	39	31	8.0	4.6	0.52	e0.55
5	0.36	1.5	1.00	1.9	4.8	16	30	25	7.3	4.0	0.42	e0.35
6	0.32	1.6	0.97	1.9	4.0	13	24	20	19	3.5	0.37	e0.31
7	0.40	1.3	0.95	2.4	3.8	11	20	16	43	3.4	0.47	e0.26
8	0.35	1.1	0.96	2.7	3.8	9.7	18	14	31	3.0	0.38	e0.24
9	0.30	0.87	1.1	2.7	3.8	9.4	16	12	20	2.7	0.44	e0.23
10	0.30	0.79	1.0	2.8	3.4	29	15	13	15	2.6	0.42	e0.20
11	0.25	0.79	1.0	3.3	9.7	21	14	11	12	2.1	0.56	e0.17
12	0.21	0.70	1.1	3.1	7.9	15	12	10	20	1.9	0.45	e0.18
13	0.23	0.64	1.2	5.3	5.9	13	11	33	35	1.7	0.31	e0.16
14	0.26	0.65	2.0	8.3	4.6	13	12	120	22	1.4	0.41	e0.15
15	0.60	0.64	6.2	6.0	4.3	11	19	78	29	1.3	0.49	e0.20
16	0.57	0.70	4.2	5.0	5.3	10	20	47	38	1.2	0.52	e0.90
17	3.0	0.88	2.8	4.4	6.7	10	16	32	30	1.1	0.92	e0.25
18	2.0	0.81	7.0	4.0	7.9	9.2	14	45	21	1.0	0.82	e0.23
19	0.91	0.71	7.6	3.6	6.6	9.0	12	50	16	1.0	0.43	e0.22
20	0.58	0.75	5.4	3.4	6.5	9.8	11	34	12	1.2	0.33	e0.21
21	0.35	0.83	4.5	3.4	16	15	16	27	10	1.1	0.34	e0.20
22	0.34	0.68	3.7	3.4	15	19	12	21	15	0.90	0.19	e0.19
23	0.27	0.58	3.2	3.6	13	14	13	17	26	2.0	0.58	e2.0
24	0.26	0.58	6.3	4.6	10	12	11	14	23	3.8	e0.90	e0.80
25	0.31	0.62	7.2	6.0	8.5	14	10	12	16	2.1	e1.2	e0.40
26	0.46	0.92	4.9	5.7	8.8	15	33	11	11	1.3	e1.0	e0.30
27	0.57	1.0	3.9	5.4	12	81	29	9.8	9.1	0.91	e0.60	e0.47
28	0.48	0.93	3.1	5.0	13	57	24	9.7	8.3	0.75	e0.35	e0.85
29	0.51	1.3	2.9	5.0	---	41	41	9.4	9.6	0.88	e0.50	e0.45
30	0.50	2.2	2.5	8.7	---	34	36	8.2	8.5	0.77	e1.5	e0.33
31	0.58	---	2.5	7.9	---	29	---	9.7	---	0.69	e0.60	---
TOTAL	17.15	27.96	95.78	128.0	210.3	615.4	649	841.8	558.4	71.30	17.48	11.90
MEAN	0.55	0.93	3.09	4.13	7.51	19.8	21.6	27.2	18.6	2.30	0.56	0.40
MAX	3.0	2.2	7.6	8.7	16	81	46	120	43	7.3	1.5	2.0
MIN	0.21	0.58	0.95	1.9	3.4	8.5	10	8.2	7.3	0.69	0.19	0.15
CFSM	0.05	0.08	0.26	0.34	0.62	1.64	1.79	2.24	1.54	0.19	0.05	0.03
IN.	0.05	0.09	0.29	0.39	0.65	1.89	2.00	2.59	1.72	0.22	0.05	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2002, BY WATER YEAR (WY)

	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	7.45	17.8	21.8	19.0	21.7	47.7	48.5	24.6	12.5	4.96	3.38	4.24																																																								
MAX	65.2	62.7	55.6	58.1	84.5	122	104	97.5	71.1	33.7	22.7	52.6																																																								
(WY)	1997	1952	1997	1958	1981	1936	1956	1954	1998	1938	1991	1954																																																								
MIN	0.55	0.93	2.73	2.25	3.47	13.5	13.7	6.51	2.07	0.65	0.52	0.40																																																								
(WY)	2002	2002	1966	1981	1980	1967	1999	2001	1936	1949	1999	2002																																																								

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1935 - 2002
ANNUAL TOTAL	5076.49	3244.47	
ANNUAL MEAN	13.9	8.89	19.4
HIGHEST ANNUAL MEAN			32.3
LOWEST ANNUAL MEAN			8.89
HIGHEST DAILY MEAN	345	Mar 23	120
LOWEST DAILY MEAN	0.21	Oct 12	e 0.15
ANNUAL SEVEN-DAY MINIMUM	0.27	Oct 8	0.18
MAXIMUM PEAK FLOW			140
MAXIMUM PEAK STAGE			2.91
INSTANTANEOUS LOW FLOW			a 0.01
ANNUAL RUNOFF (CFSM)	1.15	0.73	1.60
ANNUAL RUNOFF (INCHES)	15.61	9.97	21.81
10 PERCENT EXCEEDS	28	26	48
50 PERCENT EXCEEDS	3.9	3.5	9.8
90 PERCENT EXCEEDS	0.53	0.35	1.2

a Also occurred September 7, 1999.
e Estimated.

PISCATAQUA RIVER BASIN

01073500 LAMPREY RIVER NEAR NEWMARKET, NH

LOCATION.--Lat 43°06'09", long 70°57'11", Rockingham County, Hydrologic Unit 01060003, on right bank, 200 ft upstream from Packers Falls and Packer Falls Road, 1.8 mi northwest of Newmarket Town Hall, 2.6 mi southwest of Durham, and 4.6 mi upstream from mouth.

DRAINAGE AREA.--183 mi².

PERIOD OF RECORD.--Discharge records: July 1934 to current year.

Water-quality records: Water year 1954.

REVISED RECORDS.--WSP 1231: 1936-37. NH-VT-97-1: 1997 (datum correction).

GAGE.--Water-stage recorder. Datum of gage is 38.28 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some regulation by Pawtuckaway and Mendums Ponds. These reservoirs have a usable capacity of about 600 million ft³. Occasional diversion upstream from station for municipal supply of Durham.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,040 ft³/s, May 16, gage height, 4.85 ft; minimum daily discharge, e1.8 ft³/s, August 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUE

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e11	80	67	43	84	150	554	457	278	148	12	6.0
2	9.8	78	65	40	96	135	594	441	308	127	10	5.7
3	8.8	93	59	38	87	215	584	515	259	110	e9.5	5.9
4	e8.3	83	52	36	85	278	569	533	208	96	e8.5	e5.9
5	e7.1	76	44	34	75	261	488	470	174	81	e6.8	e4.7
6	e7.5	79	38	30	63	221	417	378	229	69	e6.5	5.2
7	e6.5	101	37	33	60	183	359	317	428	60	e5.9	5.4
8	e5.5	82	35	34	58	154	319	266	537	52	e5.6	e3.8
9	e4.6	67	38	34	56	136	284	229	487	46	5.0	e3.4
10	e7.0	61	37	35	51	185	257	221	382	41	e5.3	e2.9
11	39	76	36	37	71	217	230	194	301	36	e4.7	e2.9
12	39	64	34	39	81	222	203	175	310	32	e4.4	e2.8
13	30	54	32	45	89	197	188	247	405	28	4.5	e2.6
14	30	47	31	67	73	175	180	814	418	26	4.5	e3.4
15	34	54	47	72	66	155	206	1020	450	23	4.5	e2.6
16	36	73	56	68	64	145	235	994	530	21	e3.6	e5.0
17	74	66	51	61	73	141	234	775	532	19	e3.8	e4.0
18	70	60	70	53	84	134	216	650	484	18	e4.1	e2.6
19	54	54	89	46	82	132	202	697	397	18	e3.3	2.2
20	47	51	82	44	82	134	190	664	334	20	e1.8	2.5
21	65	58	78	42	125	163	160	580	258	20	2.2	2.8
22	57	81	68	40	166	170	146	467	239	18	2.9	2.8
23	49	75	54	40	180	189	151	378	325	19	e3.6	e5.5
24	49	69	71	45	163	178	148	312	387	22	e4.1	e7.3
25	67	64	81	57	144	177	148	252	366	23	e4.1	e6.0
26	65	64	69	61	134	181	261	214	296	19	e3.5	e5.1
27	57	62	64	62	142	478	325	187	236	18	e3.0	e6.7
28	52	67	56	62	161	610	331	196	199	18	e2.5	e11
29	52	66	56	62	---	655	411	212	200	18	3.6	e10
30	52	68	47	81	---	592	470	192	172	16	4.0	e8.0
31	81	---	44	94	---	513	---	179	---	14	6.1	---
TOTAL	1175.1	2073	1688	1535	2695	7476	9060	13226	10129	1276	153.9	144.7
MEAN	37.9	69.1	54.5	49.5	96.2	241	302	427	338	41.2	4.96	4.82
MAX	81	101	89	94	180	655	594	1020	537	148	12	11
MIN	4.6	47	31	30	51	132	146	175	172	14	1.8	2.2
CFSM	0.21	0.38	0.30	0.27	0.53	1.32	1.65	2.33	1.84	0.22	0.03	0.03
IN.	0.24	0.42	0.34	0.31	0.55	1.52	1.84	2.69	2.06	0.26	0.03	0.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2002, BY WATER YEAR (WY)

	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	128	259	328	283	305	608	687	348	192	92.9	70.1	70.0																																																									
MAX	879	742	851	796	811	1866	1756	1400	1117	599	621	650																																																									
(WY)	1997	1952	1997	1956	1970	1936	1987	1954	1998	1938	1938	1954																																																									
MIN	11.1	15.9	45.9	46.4	49.7	210	170	90.2	27.0	12.2	4.79	3.44																																																									
(WY)	1948	1942	1942	1944	1980	1989	1985	2001	1999	1993	1999	1957																																																									

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1934 - 2002

ANNUAL TOTAL	74459.0	50631.7	
ANNUAL MEAN	204	139	280
HIGHEST ANNUAL MEAN			441
LOWEST ANNUAL MEAN			137
HIGHEST DAILY MEAN	3140	Mar 25	7360
LOWEST DAILY MEAN	4.6	Oct 9	a 0.66
ANNUAL SEVEN-DAY MINIMUM	6.6	Oct 4	2.0
MAXIMUM PEAK FLOW			1040
MAXIMUM PEAK STAGE			4.85
ANNUAL RUNOFF (CFSM)	1.11		0.76
ANNUAL RUNOFF (INCHES)	15.14		10.29
10 PERCENT EXCEEDS	386		400
50 PERCENT EXCEEDS	73		67
90 PERCENT EXCEEDS	13		4.9
			23

a During refilling after repairs at Wiswall Dam.

e Estimated.

PISCATAQUA RIVER BASIN

01073587 EXETER RIVER AT HAIGH ROAD NEAR BRENTWOOD, NH

LOCATION.--Lat 42°59' 04", long 71°02' 20", Rockingham County, Hydrologic Unit 01060003, on right bank, 10 ft downstream of Haigh Road bridge, 0.8 mi upstream from mouth of the Little River, 1.3 mi southwest of Marshall Corner, 1.8 mi east of Brentwood, and 3.4 mi north of Kingston.

DRAINAGE AREA.--63.5 mi².

PERIOD OF RECORD.--Discharge records: June 27, 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is 60.16 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Low flow regulation by power plant upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 15	1045	* 377	* 6.24	No other peak greater than base discharge			

Minimum daily discharge, 0.98 ft³/s, October 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUE

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.5	6.7	10	38	50	200	169	98	47	3.5	1.7
2	2.0	2.7	6.5	9.1	e37	51	223	160	103	41	3.0	1.5
3	1.8	3.8	5.8	8.3	e32	66	209	168	90	37	2.9	1.9
4	1.5	3.5	5.4	7.9	29	94	204	161	79	33	2.6	2.2
5	1.3	3.9	5.1	7.4	e26	87	192	132	75	28	2.2	2.2
6	1.3	5.7	4.7	7.5	e25	76	170	118	79	24	2.0	1.6
7	1.2	4.6	4.6	9.2	23	73	150	96	124	21	1.6	1.4
8	1.1	4.3	5.1	9.8	22	72	133	89	173	19	1.5	1.6
9	0.98	4.2	5.6	9.8	22	68	110	76	152	17	1.5	1.3
10	1.0	4.2	5.6	10	e21	78	102	72	126	16	1.5	1.2
11	1.0	4.2	5.3	11	e30	94	96	67	108	15	1.5	1.2
12	1.1	4.0	5.3	12	e33	85	87	61	104	12	1.4	1.1
13	1.2	3.4	5.5	18	31	76	81	96	133	10	1.4	1.1
14	1.2	3.3	6.8	25	e30	71	78	260	136	8.8	1.3	1.4
15	1.5	3.4	18	23	28	64	83	361	144	7.6	1.3	1.4
16	2.1	3.7	16	21	29	59	90	297	193	7.1	1.4	2.0
17	4.1	4.5	15	20	33	61	86	254	199	6.1	1.5	1.5
18	3.5	6.5	21	19	38	59	80	240	179	5.3	1.3	1.3
19	2.9	5.4	23	e17	36	58	74	264	151	6.4	1.3	1.3
20	2.6	5.1	22	e16	34	59	68	242	150	8.9	1.3	1.3
21	2.6	4.4	21	15	49	67	60	203	92	8.2	1.2	1.3
22	2.6	4.2	18	14	63	79	54	177	89	6.8	1.2	1.3
23	2.3	3.7	17	14	64	76	58	143	107	5.8	1.3	4.4
24	2.3	3.5	20	18	57	70	58	126	108	7.4	1.5	1.9
25	2.3	3.7	23	23	55	70	57	105	93	7.2	1.6	1.5
26	2.1	4.7	21	23	50	73	88	90	82	6.1	1.4	1.4
27	2.0	4.4	19	23	52	144	111	78	72	5.1	1.7	1.7
28	2.0	4.2	17	25	55	236	110	60	63	5.1	1.2	4.1
29	2.1	4.8	15	25	---	225	135	75	57	5.8	1.5	2.8
30	2.1	7.3	13	34	---	206	160	83	53	5.1	2.4	1.9
31	2.0	---	11	38	---	192	---	77	---	4.3	1.6	---
TOTAL	60.08	127.8	388.0	523.0	1042	2839	3407	4600	3412	437.1	52.6	52.5
MEAN	1.94	4.26	12.5	16.9	37.2	91.6	114	148	114	14.1	1.70	1.75
MAX	4.1	7.3	23	38	64	236	223	361	199	47	3.5	4.4
MIN	0.98	2.5	4.6	7.4	21	50	54	60	53	4.3	1.2	1.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2002, BY WATER YEAR (WY)

	1996	1997	1998	1999	2000	2001	2002
MEAN	73.5	57.0	98.0	88.8	130	237	206
MAX	335	132	304	133	252	376	336
(WY)	1997	1997	1997	1998	1998	2001	1998
MIN	1.94	4.26	12.5	16.9	37.2	91.6	80.2
(WY)	2002	2002	2002	2002	2002	2002	1999

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1996 - 2002

	2001 CALENDAR YEAR	2002 WATER YEAR	WATER YEARS 1996 - 2002
ANNUAL TOTAL	29395.67	16941.08	
ANNUAL MEAN	80.5	46.4	96.1
HIGHEST ANNUAL MEAN			142
LOWEST ANNUAL MEAN			46.4
HIGHEST DAILY MEAN	1760	361	2630
LOWEST DAILY MEAN	0.98	0.98	0.73
ANNUAL SEVEN-DAY MINIMUM	1.1	1.1	0.77
MAXIMUM PEAK FLOW		377	3060
MAXIMUM PEAK STAGE		6.24	11.44
10 PERCENT EXCEEDS	133	135	230
50 PERCENT EXCEEDS	25	17	51
90 PERCENT EXCEEDS	2.0	1.4	2.4

e Estimated.

MERRIMACK RIVER BASIN

01074520 EAST BRANCH PEMIGEWASSET RIVER AT LINCOLN, NH

LOCATION.--Lat 44°02'51", long 71°39'37", Grafton County, Hydrologic Unit 01070001, on right bank at old crib dam, locally known as "the old hole", 800 ft upstream of bridge, 1,900 ft downstream of Pollard Brook, 1.8 mi above mouth, east of the center of Lincoln.

DRAINAGE AREA.--115 mi².

PERIOD OF RECORD.--Discharge records: March 1993 to current year. Records for November 1928 to March 1953 at site 2.7 mi upstream published as "near Lincoln" (station 01074500) are not equivalent because of difference in drainage areas.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 830 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to August 17, 2001, at datum 5.00 ft higher.

REMARKS.--Records good except those for estimated daily discharges, and those from July 28 through August 29, which are fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 19, 1936, reached a stage of 9.80 ft, former site and datum, discharge, 17,000 ft³/s. Flood in October 1959 reached a discharge of 24,200 ft³/s, by computation of peak flow over dam.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 14	0145	* 16,900	* 14.51	June 12	1515	4,570	9.91

Minimum discharge, 31 ft³/s, September 7, 9, 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	128	625	e64	66	e102	317	327	481	185	60	36
2	69	150	357	e63	e64	e93	320	334	345	170	57	36
3	64	129	281	70	e58	e122	383	352	296	149	57	35
4	61	111	246	61	73	277	505	324	267	133	54	34
5	58	125	248	68	62	191	345	341	253	125	54	33
6	61	134	232	69	61	e178	295	397	489	129	56	32
7	71	115	209	67	61	132	266	527	334	115	174	31
8	65	113	183	64	60	118	251	574	277	103	88	32
9	61	136	169	65	57	118	265	421	253	192	67	31
10	66	126	149	66	56	902	1020	433	229	128	59	31
11	82	108	148	66	138	458	658	412	292	104	54	35
12	71	93	135	63	160	319	607	344	2020	92	49	92
13	62	86	139	64	148	273	2060	429	1150	85	46	44
14	58	90	159	65	99	260	9090	550	599	83	45	38
15	86	101	170	61	89	249	3830	543	481	79	44	46
16	109	243	114	e61	82	228	3180	509	455	100	42	195
17	103	254	118	e61	78	213	4140	1390	399	81	40	95
18	111	178	127	61	74	e199	3570	874	346	222	38	56
19	83	162	116	58	73	185	2230	606	310	140	38	46
20	75	197	109	58	69	173	1560	499	e279	122	38	42
21	71	168	103	58	101	170	942	448	260	99	38	41
22	89	140	83	e58	130	146	644	406	260	89	38	42
23	80	126	e85	e57	103	154	528	387	270	86	44	42
24	90	118	119	66	e90	150	451	404	430	115	39	39
25	95	119	101	88	84	140	415	408	280	85	38	38
26	121	263	87	75	84	124	397	357	252	74	37	37
27	94	214	78	68	119	133	344	348	292	67	36	43
28	85	184	e72	66	116	127	325	343	262	66	36	275
29	76	171	76	67	---	125	331	331	231	66	36	120
30	74	379	68	72	---	206	313	360	202	80	42	73
31	72	---	68	66	---	263	---	405	---	78	38	---
TOTAL	2440	4661	4974	2016	2455	6528	39582	14383	12294	3442	1582	1770
MEAN	78.7	155	160	65.0	87.7	211	1320	464	410	111	51.0	59.0
MAX	121	379	625	88	160	902	9090	1390	2020	222	174	275
MIN	58	86	68	57	56	93	251	324	202	66	36	31
CFSM	0.68	1.35	1.40	0.57	0.76	1.83	11.5	4.03	3.56	0.97	0.44	0.51
IN.	0.79	1.51	1.61	0.65	0.79	2.11	12.80	4.65	3.98	1.11	0.51	0.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2002, BY WATER YEAR (WY)

	267	345	250	238	148	252	819	719	322	185	107	159
MEAN	267	345	250	238	148	252	819	719	322	185	107	159
MAX	740	760	509	564	389	535	1334	1323	646	525	167	655
(WY)	1996	1996	1997	1996	1996	1998	2002	1996	1996	1996	1994	1999
MIN	78.7	139	83.5	65.2	64.9	52.8	264	412	179	67.0	31.3	59.0
(WY)	2002	1995	1998	2002	2001	2001	1995	1993	1999	2001	2001	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1993 - 2002

ANNUAL TOTAL	75495	96127	
ANNUAL MEAN	207	263	319
HIGHEST ANNUAL MEAN			507
LOWEST ANNUAL MEAN			202
HIGHEST DAILY MEAN	3990	Apr 24	9090
LOWEST DAILY MEAN	25	Sep 18	a 31
ANNUAL SEVEN-DAY MINIMUM	26	Sep 14	32
MAXIMUM PEAK FLOW			b 16900
MAXIMUM PEAK STAGE			14.53
INSTANTANEOUS LOW FLOW			31
ANNUAL RUNOFF (CFSM)	1.80	2.29	2.78
ANNUAL RUNOFF (INCHES)	24.42	31.09	37.72
10 PERCENT EXCEEDS	359	439	690
50 PERCENT EXCEEDS	80	116	165
90 PERCENT EXCEEDS	33	44	65

- a Also occurred on September 9, 10.
- b From rating curve extended above 5,800 ft³/s.
- c At datum then in use.
- d Also occurred on September 19, 20, 2001.
- e Estimated.

01076500 PEMIGEWASSET RIVER AT PLYMOUTH, NH

LOCATION.--Lat 43°45'33", long 71°41'10", Grafton County, Hydrologic Unit 01070001, on right bank, 150 ft downstream from Holderness Road bridge in Plymouth, 0.1 mi northeast of Plymouth Town Hall, and 0.3 mi downstream from Baker River.

DRAINAGE AREA.--622 mi².

PERIOD OF RECORD.--Discharge records: October 1903 to current year. Records for April 1886 to September 1903, published in WSP 124, are unreliable and should not be used.

REVISED RECORDS.--WSP 471: 1912-14. WSP 726: Drainage area. WSP 1231: 1904-11, 1913-14, 1917-18, 1919(M), 1920-25, 1926-27(M), 1929-31(M). WSP 1721: 1959(M). See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 457.07 ft above National Geodetic Vertical Datum of 1929. Prior to January 1, 1910, nonrecording gage at sites 150 ft and 200 ft upstream at present datum or datum 1.11 ft lower. January 1, 1910, to September 30, 1926, nonrecording gage at site 200 ft upstream at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Stage-discharge relationship at times is affected by variable slope. Some diurnal fluctuation during period 1940-52 caused by power plants upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 14	1100	* a 26,500	14.81	Apr. 14	1400	a 24,800	* 15.38

Minimum discharge, 93 ft³/s, September 10, 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	324	326	2250	e324	e550	e1030	3980	1870	1590	545	183	124
2	277	540	1540	e322	e570	e897	4330	1890	1180	491	182	119
3	251	477	1100	e337	e560	e1080	3650	2990	962	456	180	117
4	230	426	906	314	e550	2380	5090	2250	821	413	163	116
5	207	410	849	315	e525	1550	3020	1750	769	382	157	110
6	194	593	841	338	e460	1290	2200	1620	999	361	153	105
7	201	528	753	355	e420	1050	1750	1730	1070	343	225	100
8	206	467	656	e340	e405	885	1550	1770	821	319	271	98
9	202	448	605	e330	e389	807	1550	1460	712	590	188	94
10	194	475	549	e335	e390	3740	4390	1330	619	581	167	93
11	208	420	512	e340	e800	3720	4540	1320	580	408	157	93
12	223	371	492	e345	e1550	2070	3550	1160	3010	335	145	126
13	201	328	490	e340	e1290	1550	4890	1670	5020	292	139	160
14	183	325	599	e340	e948	1430	20000	5270	2260	266	135	129
15	206	321	975	e330	e836	1610	13800	4080	1520	248	132	126
16	402	373	873	e335	e747	1390	9620	2830	1400	261	129	594
17	367	718	e723	294	e706	1260	8970	3470	1290	249	125	599
18	413	513	e730	356	e649	1180	8020	3410	1140	351	122	283
19	341	426	636	e330	e596	1080	6060	2960	971	433	120	194
20	289	417	560	e305	e596	1000	4850	2210	850	324	121	164
21	261	507	531	e305	e779	972	3420	1820	750	307	121	152
22	258	418	e423	e310	e1260	893	2470	1590	710	249	121	149
23	285	375	e407	e310	e1290	829	2070	1420	977	228	135	149
24	292	346	e528	e320	e962	812	1790	1330	1670	264	139	142
25	340	340	e540	e380	e884	726	1610	1300	1230	249	131	133
26	424	798	e491	e525	e859	707	1740	1170	917	212	124	128
27	413	977	e435	e520	e1200	875	1580	1100	950	198	119	133
28	342	727	e381	e500	e1350	1100	1430	1030	972	197	113	527
29	306	633	e398	e480	---	1080	1680	987	781	193	113	564
30	282	968	373	e490	---	1690	1950	952	637	186	136	332
31	270	---	363	e550	---	2890	---	1050	---	197	135	---
TOTAL	8592	14991	21509	11315	22121	43573	135550	60789	37178	10128	4581	5953
MEAN	277	500	694	365	790	1406	4518	1961	1239	327	148	198
MAX	424	977	2250	550	1550	3740	20000	5270	5020	590	271	599
MIN	183	321	363	294	389	707	1430	952	580	186	113	93
CFSM	0.45	0.80	1.12	0.59	1.27	2.26	7.26	3.15	1.99	0.53	0.24	0.32
IN.	0.51	0.90	1.29	0.68	1.32	2.61	8.11	3.64	2.22	0.61	0.27	0.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2002, BY WATER YEAR (WY)

	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	958	1328	1133	872	733	1727	3945	2768	1155	637	501	590																																																																																							
MAX	3423	4578	4588	3191	4379	9266	7206	5304	3878	3103	3345	3813																																																																																							
(WY)	1978	1928	1974	1996	1981	1936	1969	1940	1917	1973	1990	1938																																																																																							
MIN	129	308	216	148	138	205	1222	806	283	160	111	107																																																																																							
(WY)	1948	1979	1948	1931	1931	1940	1995	1921	1921	1923	1923	1923																																																																																							

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1904 - 2002

ANNUAL TOTAL	345765	376280					
ANNUAL MEAN	947	1031					
HIGHEST ANNUAL MEAN		1363					
LOWEST ANNUAL MEAN		2156					
HIGHEST DAILY MEAN	12900	Apr 24	20000	Apr 14	57300	Mar 19	1936
LOWEST DAILY MEAN	81	Sep 19	93	Sep 10	45	Sep 20	1923
ANNUAL SEVEN-DAY MINIMUM	87	Sep 14	99	Sep 5	66	Oct 11	1923
MAXIMUM PEAK FLOW			a 26500	Apr 14	65400	Mar 19	1936
MAXIMUM PEAK STAGE			15.38	Apr 14	b 29.00	Mar 19	1936
INSTANTANEOUS LOW FLOW			c 90	Sep 10	d 39	Oct 1	1948
ANNUAL RUNOFF (CFSM)	1.52	1.66	2.19				
ANNUAL RUNOFF (INCHES)	20.68	22.50	29.77				
10 PERCENT EXCEEDS	2120	2120	3170				
50 PERCENT EXCEEDS	440	525	676				
90 PERCENT EXCEEDS	126	141	235				

- a Discharge affected by variable slope.
- b From flood marks.
- c Also occurred on September 11.
- d Also on October 3, 1948.
- e Estimated.

MERRIMACK RIVER BASIN

01078000 SMITH RIVER NEAR BRISTOL, NH

LOCATION.--Lat 43°34'04", long 71°44'54", Merrimack County, Hydrologic Unit 01070001, on right bank, 0.6 mi upstream of Borough Road bridge, 1.5 mi upstream from mouth, 1.7 mi southwest of Post Office in Bristol, and 3.8 mi northwest of Hill.

DRAINAGE AREA.--85.8 mi².

PERIOD OF RECORD.--Discharge: May 1918 to current year.

REVISED RECORDS.--WSP 711: Drainage area. WSP 781: 1934. WSP 1231: 1919, 1920-21(M), 1922-31, 1932-33(M), 1941-43.

GAGE.--Water-stage recorder. Datum of gage is 449.80 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to November 25, 1933, nonrecording gage at site 1.5 mi upstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Prior to 1954, some diurnal fluctuation caused by small mill upstream; greater fluctuation prior to 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1885, that of March 19, 1936.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 1	2000	* 736	* 4.86	No other peaks greater than base discharge.			
Minimum discharge, 2.9 ft ³ /s, August 19, 20.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	18	80	22	80	146	645	201	123	44	6.8	6.2
2	22	20	86	e20	77	118	689	220	106	37	6.7	6.1
3	19	21	60	e21	63	e165	598	372	84	33	6.8	6.1
4	16	19	48	20	56	e285	585	289	69	29	6.2	6.1
5	14	19	40	21	49	e230	484	204	72	25	5.9	5.6
6	13	19	37	22	43	e165	336	157	260	23	5.5	4.9
7	11	21	33	23	40	140	256	132	327	22	5.3	4.4
8	10	20	30	24	38	116	210	114	190	21	5.0	4.1
9	9.9	20	29	25	35	108	202	101	125	20	4.8	3.8
10	9.9	18	27	25	32	287	265	98	95	19	4.8	3.6
11	9.8	18	26	27	e58	392	276	90	79	17	4.6	3.5
12	9.8	17	25	28	e85	270	222	85	128	16	4.4	3.5
13	9.5	16	25	28	e90	189	198	213	255	15	4.3	3.3
14	9.8	16	29	28	e75	176	237	614	180	14	4.3	3.3
15	14	16	69	27	e67	208	370	531	131	14	4.0	3.4
16	17	16	e82	27	e62	179	402	337	121	14	3.7	14
17	20	16	55	26	e64	153	289	236	116	13	3.5	13
18	18	16	62	e24	64	141	211	237	98	12	3.2	13
19	16	16	55	23	58	125	166	311	82	12	3.2	9.9
20	15	16	48	24	55	116	149	255	68	13	3.4	7.9
21	15	16	45	24	72	114	131	196	57	11	3.3	6.8
22	14	16	37	24	114	e110	116	161	66	11	3.3	7.3
23	14	16	e34	24	151	e105	116	137	116	9.9	5.2	7.2
24	15	16	41	27	136	95	121	118	135	9.5	4.4	6.3
25	15	16	e40	35	114	88	116	104	101	8.2	4.4	5.9
26	17	25	e37	43	105	84	145	94	74	8.0	4.0	5.9
27	17	40	e34	47	144	100	143	87	62	7.9	3.6	7.7
28	16	34	e29	45	184	137	130	79	63	8.4	3.3	17
29	18	31	27	44	---	163	193	75	66	8.8	4.2	16
30	18	36	26	56	---	288	247	76	55	8.0	12	15
31	15	---	24	78	---	463	---	83	---	7.4	7.1	---
TOTAL	462.7	604	1320	932	2211	5456	8248	6007	3504	511.1	151.2	220.8
MEAN	14.9	20.1	42.6	30.1	79.0	176	275	194	117	16.5	4.88	7.36
MAX	25	40	86	78	184	463	689	614	327	44	12	17
MIN	9.5	16	24	20	32	84	116	75	55	7.4	3.2	3.3
CFSM	0.17	0.23	0.50	0.35	0.92	2.05	3.20	2.26	1.36	0.19	0.06	0.09
IN.	0.20	0.26	0.57	0.40	0.96	2.37	3.58	2.60	1.52	0.22	0.07	0.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 2002, BY WATER YEAR (WY)

	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	72.6	129	132	101	98.0	251	482	224	104	53.0	36.6	40.9																																																																									
MAX	279	379	393	300	578	1242	1077	504	391	387	340	457																																																																									
(WY)	1997	1928	1974	1996	1981	1936	1969	1954	1998	1973	1990	1938																																																																									
MIN	8.45	20.1	22.3	19.2	20.6	29.7	134	71.5	20.5	9.00	4.54	7.36																																																																									
(WY)	1948	2002	1923	1940	1980	1940	1995	1941	1964	1965	1965	2002																																																																									

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1918 - 2002

ANNUAL TOTAL	37161.8	29627.8	
ANNUAL MEAN	102	81.2	144
HIGHEST ANNUAL MEAN			240
LOWEST ANNUAL MEAN			64.7
HIGHEST DAILY MEAN	1890	Apr 24	689
LOWEST DAILY MEAN	4.1	Sep 19	a 3.2
ANNUAL SEVEN-DAY MINIMUM	4.5	Sep 14	3.4
MAXIMUM PEAK FLOW			736
MAXIMUM PEAK STAGE			4.86
INSTANTANEOUS LOW FLOW			d 2.9
ANNUAL RUNOFF (CFSM)	1.19		0.95
ANNUAL RUNOFF (INCHES)	16.11		12.85
10 PERCENT EXCEEDS	186		212
50 PERCENT EXCEEDS	43		32
90 PERCENT EXCEEDS	8.5		5.9

- a Also occurred on August 19.
- b From rating curve extended above 2,700 ft³/s on basis of contracted-opening measurement of peak flow.
- c From floodmarks.
- d Also occurred on August 20.
- e Estimated.

01079602 POORFARM BROOK AT ELLACOYA STATE PARK NEAR GILFORD, NH

LOCATION.--Lat 43°34'22", long 71°21'20", Belknap County, Hydrologic Unit 01070002, on right bank at Old Highway 11 bridge, 250 ft downstream from State Highway 11 bridge, 950 ft upstream from mouth, 3.1 mi northeast of Gilford, and 5.9 mi southeast of Weirs Beach.

DRAINAGE AREA.--6.38 mi².

PERIOD OF RECORD.--Discharge records: June 1998 to current year.

GAGE.--Water-stage recorder and crest stage gage. Elevation of gage is 515 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 110 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 24	0945	Ice Jam	* 4.01	May 14	0715	* 86	3.98

Minimum discharge, 0.07 ft³/s, August 15, 17-21, 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.60	0.72	2.0	e1.2	1.5	e8.9	43	18	9.4	2.5	0.32	0.31
2	0.55	0.55	1.0	e1.3	1.2	8.2	31	25	5.8	2.1	0.30	0.35
3	0.51	0.51	0.78	2.2	1.3	33	31	27	4.7	1.9	0.29	0.36
4	0.48	0.50	0.67	1.8	1.3	41	35	22	4.1	1.6	0.24	0.37
5	0.46	0.62	0.62	e2.0	1.4	e22	37	20	4.3	1.9	0.24	0.27
6	0.45	0.60	0.61	e2.3	e1.6	15	33	18	11	1.4	0.29	0.22
7	0.43	0.52	0.59	1.5	e1.9	15	30	15	11	1.3	0.23	0.20
8	0.47	0.50	0.56	1.2	e1.8	14	28	11	6.9	1.2	0.19	0.22
9	0.45	0.51	0.62	1.1	e1.6	15	27	9.9	5.2	1.2	0.17	0.18
10	0.80	0.49	0.59	0.99	e1.4	37	28	11	4.2	1.1	0.16	0.11
11	2.9	0.48	0.59	0.98	e24	28	22	8.7	4.0	0.88	0.15	0.53
12	2.3	0.47	0.57	0.89	22	21	14	8.7	8.4	1.0	0.13	0.52
13	1.8	0.46	0.65	0.86	4.5	19	17	29	12	0.80	0.12	0.23
14	1.5	0.48	0.82	0.81	3.7	19	30	59	11	0.69	0.12	0.16
15	1.7	0.48	1.5	0.75	2.9	19	39	33	9.7	0.65	0.10	0.22
16	1.2	0.48	e1.0	0.67	e2.6	18	29	28	12	0.65	0.10	1.7
17	1.4	0.46	e0.86	0.66	e2.5	18	26	26	11	0.57	0.10	0.46
18	0.87	0.46	0.97	0.65	e2.1	17	22	34	8.7	0.56	0.10	0.32
19	0.66	0.46	0.83	0.62	1.6	16	18	29	6.0	0.54	0.09	0.25
20	0.60	0.47	0.82	e0.60	1.4	16	13	25	4.9	0.59	0.11	0.25
21	0.56	0.45	0.85	0.63	e9.1	16	11	22	4.0	0.51	0.10	0.24
22	0.66	0.45	e0.83	0.65	e24	e15	11	20	6.1	0.46	0.12	0.28
23	0.71	0.45	e0.77	0.70	e18	e14	12	17	9.6	0.66	0.26	0.35
24	0.60	0.46	1.1	e1.2	e13	14	11	12	8.8	0.79	0.17	0.26
25	0.68	0.47	1.2	e4.2	e9.6	13	10	9.7	5.7	0.55	0.17	0.21
26	0.62	0.51	e0.96	1.1	7.7	13	15	8.5	4.4	0.46	0.14	0.23
27	0.56	0.49	e1.1	1.0	13	15	13	7.7	3.9	0.45	0.12	0.49
28	0.50	0.47	e0.82	0.94	13	15	13	6.7	4.0	0.53	0.10	3.0
29	0.49	0.58	0.84	0.97	---	15	21	6.1	3.3	0.53	0.44	0.69
30	0.49	0.93	e0.90	1.8	---	27	20	5.7	2.8	0.44	1.6	0.50
31	0.50	---	e1.1	1.3	---	29	---	8.0	---	0.47	0.47	---
TOTAL	26.50	15.48	27.12	37.57	189.7	586.1	690	580.7	206.9	28.98	7.24	13.48
MEAN	0.85	0.52	0.87	1.21	6.78	18.9	23.0	18.7	6.90	0.93	0.23	0.45
MAX	2.9	0.93	2.0	4.2	24	41	43	59	12	2.5	1.6	3.0
MIN	0.43	0.45	0.56	0.60	1.2	8.2	10	5.7	2.8	0.44	0.09	0.11
CFSM	0.13	0.08	0.14	0.19	1.06	2.96	3.61	2.94	1.08	0.15	0.04	0.07
IN.	0.15	0.09	0.16	0.22	1.11	3.42	4.02	3.39	1.21	0.17	0.04	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2002, BY WATER YEAR (WY)

	1998	1999	2000	2001	2002	1998	1999	2000	2001	2002	1998	1999	2000	2001	2002
MEAN	6.35	5.45	6.04	5.70	7.26	20.7	31.6	13.0	16.0	4.65	2.04	6.72			
MAX	12.6	8.12	10.6	12.5	12.6	30.6	50.2	18.7	52.0	13.9	6.23	29.1			
(WY)	2000	2000	2001	1999	1999	1999	2001	2002	1998	1998	2000	1999			
MIN	0.85	0.52	0.87	1.21	3.16	3.84	22.1	7.15	1.88	0.93	0.23	0.45			
(WY)	2002	2002	2002	2002	2001	2001	1999	1999	1999	2002	2002	2002			

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1998 - 2002

ANNUAL TOTAL	2744.61	2409.77		
ANNUAL MEAN	7.52	6.60		
HIGHEST ANNUAL MEAN			11.4	1999
LOWEST ANNUAL MEAN			6.60	2002
HIGHEST DAILY MEAN	161	Apr 23	59	May 14
LOWEST DAILY MEAN	0.39	Aug 29	0.09	Aug 19
ANNUAL SEVEN-DAY MINIMUM	0.42	Aug 25	0.10	Aug 15
MAXIMUM PEAK FLOW			86	May 14
MAXIMUM PEAK STAGE			a 4.01	Feb 24
INSTANTANEOUS LOW FLOW			c 0.07	Aug 15
ANNUAL RUNOFF (CFSM)	1.18	1.03		1.50
ANNUAL RUNOFF (INCHES)	16.00	14.05		20.43
10 PERCENT EXCEEDS	18	22		26
50 PERCENT EXCEEDS	2.6	1.2		4.4
90 PERCENT EXCEEDS	0.47	0.26		0.50

- a Ice jam.
- b Maximum observed gage height.
- c Also occurred on August 17-21, 28, 2002.
- e Estimate.

MERRIMACK RIVER BASIN

01079900 SHANNON BROOK NEAR MOULTONBOROUGH, NH

LOCATION.--Lat 43°43'49", long 71°21'28", Carroll County, Hydrologic Unit 01070002, on left bank 20 ft downstream from State Highway 109 bridge, 1.4 mi upstream from mouth, 2.5 mi southeast of Moultonborough, and 4.0 mi northwest of Melvin Village.

DRAINAGE AREA.--6.99 mi².

PERIOD OF RECORD.--Discharge records: August 1998 to current year.

GAGE.--Water-stage recorder and crest stage gage. Elevation of gage is 545 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for the period of October 1 to December 6, which are fair, and those for estimated daily discharges and discharges below 1 ft³/s, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 120 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 14	1000	* 90	* 5.52	No other peaks greater than base discharge.			
Minimum discharge, 0.00 ft ³ /s, August 27-29, September 10-15.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.52	1.4	7.6	1.9	e5.0	15	58	17	11	3.2	0.22	0.04
2	0.48	1.2	5.6	1.7	4.8	12	44	24	6.3	2.8	0.17	0.06
3	0.50	0.84	3.9	2.0	4.2	41	40	31	4.8	2.4	0.15	0.06
4	0.45	0.77	3.1	1.6	4.8	47	50	21	4.0	2.0	0.13	0.06
5	0.46	1.9	3.0	1.7	4.0	26	31	16	4.0	1.7	0.11	0.06
6	0.49	2.8	2.7	2.0	4.1	e19	24	14	9.9	1.4	0.09	0.04
7	0.58	1.1	2.3	2.2	4.5	15	19	13	8.5	1.5	0.09	0.03
8	0.49	0.76	2.2	2.0	4.0	13	17	11	5.5	1.2	0.08	0.02
9	0.45	0.77	2.3	2.0	3.5	13	16	9.9	4.5	8.9	0.07	0.01
10	0.44	e0.66	2.1	2.0	4.1	44	16	12	3.8	3.4	0.07	0.01
11	0.41	0.66	2.0	2.1	e21	30	15	9.3	3.8	2.0	0.06	0.00
12	0.40	0.56	1.9	2.0	e19	21	13	9.2	12	1.5	0.05	0.00
13	0.35	0.45	2.4	2.2	14	17	14	26	15	1.2	0.04	0.00
14	0.42	0.47	3.0	2.0	9.4	16	28	78	9.1	0.95	0.03	0.00
15	1.1	0.52	5.0	1.9	8.2	16	41	45	8.9	0.82	0.03	0.00
16	1.4	0.53	4.0	1.8	7.2	14	30	27	14	0.82	0.03	1.1
17	1.6	0.58	3.6	1.8	6.9	13	22	21	12	0.63	0.03	1.5
18	1.0	0.53	e4.1	1.8	5.9	12	17	24	9.1	0.90	0.02	0.43
19	0.68	0.59	4.2	1.6	5.3	11	16	22	6.9	0.91	0.02	0.26
20	0.60	0.55	e4.3	1.8	5.4	11	14	17	5.8	0.82	0.02	0.20
21	0.56	0.51	e4.7	1.8	17	12	12	15	4.8	0.72	0.01	0.17
22	0.63	0.54	e4.1	1.8	23	11	10	12	6.6	0.50	0.01	0.17
23	0.54	0.60	e2.9	1.7	17	9.9	10	11	10	0.47	0.02	0.18
24	0.88	0.60	3.6	2.3	13	9.1	9.3	9.5	12	0.39	0.02	0.17
25	1.3	0.65	4.5	4.0	11	8.8	9.2	8.4	6.9	0.31	0.02	0.15
26	1.5	1.2	3.6	3.3	12	8.8	16	7.1	5.5	0.26	0.02	0.13
27	1.3	1.3	3.1	3.0	27	16	13	6.3	5.2	0.24	0.01	0.18
28	0.95	1.2	2.5	3.0	22	19	12	5.5	5.3	0.33	0.00	2.8
29	0.84	1.7	2.6	3.0	---	20	17	4.7	6.3	0.66	0.01	1.2
30	0.90	3.2	2.2	5.1	---	40	16	4.6	3.9	0.46	0.05	0.52
31	0.80	---	2.1	5.1	---	43	---	6.4	---	0.31	0.03	---
TOTAL	23.02	29.14	105.2	72.2	287.3	603.6	649.5	537.9	225.4	43.70	1.71	9.55
MEAN	0.74	0.97	3.39	2.33	10.3	19.5	21.6	17.4	7.51	1.41	0.06	0.32
MAX	1.6	3.2	7.6	5.1	27	47	58	78	15	8.9	0.22	2.8
MIN	0.35	0.45	1.9	1.6	3.5	8.8	9.2	4.6	3.8	0.24	0.00	0.00
CFSM	0.11	0.14	0.49	0.33	1.47	2.79	3.10	2.48	1.07	0.20	0.01	0.05
IN.	0.12	0.16	0.56	0.38	1.53	3.21	3.46	2.86	1.20	0.23	0.01	0.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2002, BY WATER YEAR (WY)

	1998	1999	2000	2001	2002	1998	1999	2000	2001	2002		
MEAN	6.26	8.15	8.27	6.78	9.03	23.8	32.5	12.1	6.42	2.36	1.74	4.65
MAX	11.7	11.0	12.5	13.8	13.0	34.8	62.6	17.4	10.4	5.48	3.99	18.1
(WY)	2000	2000	2001	1999	1999	2000	2001	2002	2001	2000	1998	1999
MIN	0.74	0.97	3.39	2.33	3.10	8.56	14.6	6.02	1.49	1.18	0.055	0.32
(WY)	2002	2002	2002	2002	2001	2001	1999	1999	1999	1999	2002	2002

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1998 - 2002
ANNUAL TOTAL	3178.08	2588.22	
ANNUAL MEAN	8.71	7.09	10.2
HIGHEST ANNUAL MEAN			12.4
LOWEST ANNUAL MEAN			7.09
HIGHEST DAILY MEAN	153	Apr 23	78
LOWEST DAILY MEAN	a 0.03	Aug 16	bc 0.00
ANNUAL SEVEN-DAY MINIMUM	0.05	Aug 11	c 0.00
MAXIMUM PEAK FLOW			90
MAXIMUM PEAK STAGE			5.52
INSTANTANEOUS LOW FLOW			dc 0.00
ANNUAL RUNOFF (CFSM)	1.25		1.01
ANNUAL RUNOFF (INCHES)	16.91		13.77
10 PERCENT EXCEEDS	21		19
50 PERCENT EXCEEDS	2.6		2.8
90 PERCENT EXCEEDS	0.23		0.07

a Also occurred on August 30, 31, 2001.
 b Also occurred on September 11-15, 2002.
 c Discharge <0.01 ft³/s but may have been > 0.00 ft³/s.
 d Also occurred on August 28, 29, 2002, and September 10-15, 2002.
 e Estimated.

01080000 LAKE WINNIPESAUKEE AT WEIRS BEACH, NH

LOCATION.--Lat 43°36'27", long 71°27'34", Belknap County, Hydrologic Unit 01070002, 600 ft east of Weirs Beach Post Office, 1,600 ft north of US Highway 3 bridge across Paugus Bay at Weirs Beach, 4.7 mi southeast of Meredith, and 5.3 mi north of Laconia Post Office.

DRAINAGE AREA.--363 mi², at outlet at Lakeport.

PERIOD OF RECORD.--Gage heights: September 1933 to current year. Prior to November 1937, month end contents only, published in WSP 1301. Prior to October 1970, published as "at The Weirs."

REVISED RECORDS.--WDR NH-VT-78-1: 1938-77 (datum correction). WDR NH-VT-99-1: 1998. WDR NH-VT-02-1: 1988-2001 (datum correction).

GAGE.--Water-stage recorder. Datum of gage is 500.00 ft (revised) above National Geodetic Vertical Datum of 1929. Prior to November 1937, nonrecording gage at lake outlet at Lakeport at datum 0.55 ft higher. November 24, 1937 to November 7, 1965, water-stage recorder at site 500 ft southeast at datum 0.08 ft lower. November 7, 1965 to September 1987, at water-stage recorder at present site at datum 0.08 ft lower.

REMARKS.--Lake used for recreation and conservation for development of water power. Usable capacity, 7.21 billion ft³ between elevations 500.57 ft and 504.24 ft above National Geodetic Vertical Datum of 1929. Stage regulated at outlet and by Wentworth, Merrymeeting, and other lakes. Capacities given herein are computed from gage height at midnight on last day of month.

Capacity table (gage height, in feet, and contents, in millions of cubic feet), furnished by State of New Hampshire, Department of Environmental Services

2.0	13,840
3.0	15,810
4.0	17,800
5.0	19,810

EXTREMES FOR PERIOD OF RECORD.--Maximum daily gage height, 5.94 ft^a, June 4, 1984; minimum daily gage height, 0.63 ft^a, December 11, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum daily gage height, 4.57 ft, June 18; minimum daily gage height, 1.58 ft, January 2.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.50	2.10	1.77	1.61	1.87	2.19	3.04	4.13	4.23	4.17	3.69	3.11
2	2.47	2.08	1.77	1.58	1.85	2.20	3.11	4.19	4.20	4.17	3.67	3.09
3	2.46	2.07	1.77	1.59	1.89	2.27	3.17	4.21	4.19	4.17	3.65	3.07
4	2.45	2.05	1.80	1.59	1.89	2.31	3.24	4.24	4.19	4.15	3.63	3.05
5	2.44	2.05	1.77	1.60	1.87	2.34	3.29	4.27	4.18	4.12	3.61	3.00
6	2.40	2.01	1.75	1.60	1.88	2.37	3.31	4.27	4.23	4.08	3.57	2.97
7	2.37	1.98	1.74	1.63	1.89	2.39	3.34	4.28	4.25	4.06	3.53	2.96
8	2.31	1.99	1.73	1.63	1.89	2.41	3.37	4.28	4.24	4.05	3.51	2.93
9	2.30	1.95	1.74	1.63	1.89	2.42	3.39	4.29	4.21	4.07	3.49	2.92
10	2.29	1.95	1.73	1.63	1.90	2.44	3.41	4.27	4.20	4.03	3.47	2.91
11	2.29	1.91	1.72	1.64	1.97	2.49	3.45	4.26	4.20	3.99	3.45	2.85
12	2.29	1.89	1.71	1.64	1.99	2.53	3.46	4.27	4.22	3.98	3.44	2.80
13	2.29	1.87	1.70	1.65	1.98	2.54	3.49	4.35	4.22	3.97	3.42	2.78
14	2.28	1.86	1.70	1.67	2.00	2.55	3.58	4.48	4.22	3.96	3.41	2.79
15	2.29	1.85	1.71	1.69	2.01	2.58	3.68	4.50	4.23	3.94	3.39	2.76
16	2.31	1.83	1.70	1.67	2.00	2.58	3.74	4.53	4.20	3.92	3.37	2.88
17	2.29	1.83	1.73	1.69	2.01	2.60	3.78	4.53	4.18	3.91	3.35	2.88
18	2.26	1.81	1.75	1.69	1.99	2.61	3.82	4.57	4.16	3.90	3.33	2.87
19	2.27	1.80	1.74	1.71	1.97	2.62	3.85	4.56	4.15	3.90	3.30	2.84
20	2.27	1.77	1.74	1.73	1.97	2.65	3.85	4.54	4.13	3.88	3.28	2.83
21	2.26	1.76	1.71	1.71	2.00	2.68	3.85	4.50	4.12	3.86	3.26	2.82
22	2.25	1.76	1.69	1.71	2.01	2.65	3.88	4.48	4.15	3.84	3.24	2.82
23	2.23	1.75	1.71	1.72	2.02	2.69	3.89	4.44	4.19	3.83	3.26	2.81
24	2.22	1.74	1.71	1.74	2.05	2.69	3.91	4.40	4.18	3.83	3.23	2.80
25	2.22	1.74	1.71	1.75	2.05	2.70	3.94	4.37	4.19	3.80	3.19	2.78
26	2.21	1.74	1.71	1.75	2.06	2.74	3.97	4.33	4.19	3.78	3.16	2.76
27	2.17	1.74	1.69	1.76	2.12	2.83	3.99	4.30	4.19	3.75	3.14	2.77
28	2.14	1.73	1.69	1.76	2.16	2.86	4.04	4.26	4.20	3.74	3.12	2.82
29	2.13	1.74	1.67	1.77	---	2.89	4.09	4.24	4.20	3.73	3.10	2.81
30	2.09	1.76	1.64	1.79	---	2.93	4.12	4.22	4.19	3.71	3.16	2.79
31	2.08	---	1.63	1.82	---	2.98	---	4.22	---	3.69	3.15	---
MEAN	2.28	1.87	1.72	1.68	1.97	2.57	3.63	4.35	4.19	3.93	3.37	2.88
MAX	2.50	2.10	1.80	1.82	2.16	2.98	4.12	4.57	4.25	4.17	3.69	3.11
MIN	2.08	1.73	1.63	1.58	1.85	2.19	3.04	4.13	4.12	3.69	3.10	2.76
(†)	13,990	13,430	13,140	13,580	14,190	15,810	18,060	18,340	18,160	17,160	16,060	15,350
(‡)	-325	-216	-108	164	252	605	868	105	-69	-373	-411	-274

CAL YR 2001 MEAN 2.84 MAX 4.37 MIN 1.63
WTR YR 2002 MEAN 2.88 MAX 4.57 MIN 1.58

(†) Capacity in millions of cubic feet at midnight of last day of the month.
(‡) Change in contents, equivalent in cubic feet per second.
(a) At datum then in use.

01081000 WINNIPESAUKEE RIVER AT TILTON, NH

LOCATION.--Lat 43°26'31", long 71°35'20", Belknap County, Hydrologic Unit 01070002, on right bank, 150 ft upstream of Bridge/School Street bridge, 300 ft south of Town Hall in Tilton, and 0.3 mi upstream from Packer Brook.

DRAINAGE AREA.--471 mi².

PERIOD OF RECORD.--Discharge records: January 1937 to current year.

Water-quality records: Water year 1953.

REVISED RECORDS.--WSP 1901: 1960.

GAGE.--Water-stage recorder. Datum of gage is 441.87 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by power plants prior to 1967 and by Winnepesaukee (station 01080000), Winnisquam 4.5 mi upstream, Wentworth, Merrymeeting, and other lakes upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,810 ft³/s, May 19, gage height 5.44 ft; minimum daily discharge, e57 ft³/s, October 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	242	239	220	231	92	117	559	332	642	355	231	237
2	242	237	215	235	e85	105	696	393	599	321	231	236
3	241	239	207	189	e83	156	719	643	620	260	233	234
4	238	230	201	e81	80	213	712	640	727	249	231	235
5	238	218	198	e65	e78	e174	603	594	745	247	233	224
6	230	212	196	e65	e76	139	357	567	852	243	234	224
7	210	209	194	e66	74	125	312	557	882	243	229	226
8	248	209	193	e76	74	142	299	545	822	242	228	225
9	304	209	197	78	73	258	295	538	779	243	227	225
10	439	208	194	78	e73	350	294	594	752	242	227	223
11	456	207	193	79	e91	384	286	772	754	234	226	222
12	355	205	192	79	e92	372	276	792	817	235	226	220
13	e96	205	193	81	e90	395	281	867	875	237	226	220
14	e65	205	197	e80	e82	495	304	1110	853	237	226	223
15	e64	205	212	76	79	503	454	1160	829	239	230	212
16	e64	206	211	74	78	499	589	1160	818	240	227	215
17	e63	206	211	76	79	495	423	1110	813	237	228	225
18	e60	205	214	75	78	491	325	1310	730	238	227	226
19	e59	203	218	e75	77	486	298	1770	557	241	227	224
20	e58	191	245	e75	77	446	286	1770	530	241	228	225
21	e57	187	247	75	95	343	278	1700	448	235	226	225
22	e86	187	245	75	115	326	274	1580	313	234	226	228
23	215	187	244	73	119	317	273	1560	337	236	232	228
24	250	187	250	77	109	316	275	1520	434	236	229	224
25	241	187	252	80	101	317	273	1460	621	232	229	225
26	237	189	250	81	102	320	278	1450	615	233	228	227
27	228	182	246	81	127	363	300	1440	548	235	228	235
28	235	190	242	78	134	412	301	1280	390	237	227	248
29	239	197	241	77	---	430	322	1040	367	237	250	219
30	237	205	238	85	---	456	343	1020	360	234	256	231
31	222	---	237	90	---	490	---	901	---	232	242	---
TOTAL	6219	6146	6793	2806	2513	10435	11285	32175	19429	7605	7148	6791
MEAN	201	205	219	90.5	89.8	337	376	1038	648	245	231	226
MAX	456	239	252	235	134	503	719	1770	882	355	256	248
MIN	57	182	192	65	73	105	273	332	313	232	226	212

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2002, BY WATER YEAR (WY)

	418	516	708	838	916	957	1155	964	712	463	404	400
MEAN	418	516	708	838	916	957	1155	964	712	463	404	400
MAX	1257	1304	2209	1855	1889	2043	2745	2605	2821	1922	897	954
(WY)	1978	1976	1984	1952	1958	1983	1953	1954	1984	1998	1986	1938
MIN	201	205	136	90.5	89.8	337	376	217	201	179	181	182
(WY)	2002	2002	1942	2002	2002	2002	2002	1957	1957	1957	1957	1957

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1937 - 2002
ANNUAL TOTAL	198637	119345	
ANNUAL MEAN	544	327	700
HIGHEST ANNUAL MEAN			1229
LOWEST ANNUAL MEAN			304
HIGHEST DAILY MEAN	2060	a 1770	4480
LOWEST DAILY MEAN	57	e 57	b 48
ANNUAL SEVEN-DAY MINIMUM	61	61	52
MAXIMUM PEAK FLOW		1810	4580
MAXIMUM PEAK STAGE		5.44	8.68
10 PERCENT EXCEEDS	1130	722	1420
50 PERCENT EXCEEDS	300	234	526
90 PERCENT EXCEEDS	205	79	262

a Also occurred on May 20.
b Also occurred on November 9, 2000.
e Estimated.

01082000 CONTOCOOK RIVER AT PETERBOROUGH, NH

LOCATION.--Lat 42°51'45", long 71°57'35", Hillsborough County, Hydrologic Unit 01070003, on left bank, 1,200 ft downstream from mill dam, 0.3 mi northwest of Noone, 1.2 mi south of Town Hall in Peterborough, and 1.3 mi upstream from Nubanusit Brook.

DRAINAGE AREA.--68.1 mi².

PERIOD OF RECORD.--Discharge records: July 1945 to September 1977, October 2001 to current year.

Partial-record station: October 1978 to September 2001.

Peak streamflow: Water years 1938, 1946 to current.

Water-quality discrete samples: Water years 1974 to 1977, 1985 to 1999.

Miscellaneous discharge measurements only: Waters years 1978, 1980 to 2001.

GAGE.--Water-stage recorder. Elevation of gage is 740 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated discharges, which are poor. Flow slightly regulated by mill and reservoirs upstream; regulation greater prior to 1965.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,860 ft³/s, April 6, 1987, gage height 6.62 ft; maximum gage height, 6.82 ft, from peak-stage indicator, about January 29, 1976 (ice jam); minimum daily discharge, 0.8 ft³/s, September 15, 16, 1953.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in September 1938 reached a stage of about 15 ft, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 1	0945	716	3.61	May 14	1430	* 728	* 3.63

Minimum daily discharge, 4.7 ft³/s, September 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	17	34	e28	64	89	592	459	263	89	9.2	8.2
2	42	17	28	27	e58	76	562	e380	215	75	8.9	8.4
3	27	15	32	31	e65	126	428	e210	159	61	8.6	9.3
4	12	18	20	34	61	176	372	e170	116	49	8.8	9.9
5	14	19	37	15	e50	136	307	e145	109	40	9.1	10
6	19	18	64	16	e50	105	269	e120	132	32	9.0	9.7
7	17	18	49	29	43	93	248	106	363	37	8.3	7.8
8	16	16	40	e40	19	90	247	62	333	27	8.7	5.3
9	14	20	39	e25	33	84	237	72	228	29	8.9	5.9
10	14	20	35	18	e34	122	254	82	170	30	8.9	6.7
11	14	17	32	40	e85	141	393	66	134	28	8.9	6.3
12	14	11	34	23	e90	119	281	66	129	36	8.6	6.1
13	14	16	40	18	69	96	345	171	192	16	9.3	4.9
14	15	16	50	e30	e70	79	315	604	160	17	9.6	4.7
15	20	14	88	39	48	74	412	437	154	25	9.2	5.1
16	20	16	72	28	40	71	464	e280	163	14	9.3	9.1
17	20	12	61	15	46	73	429	e225	209	15	9.4	10
18	18	23	59	22	e55	60	341	e240	164	16	9.2	9.5
19	16	14	56	e41	44	49	333	e270	138	16	9.2	7.2
20	20	9.7	65	e30	48	73	312	e230	113	19	9.4	6.1
21	18	16	58	e25	87	88	289	188	91	17	9.3	6.6
22	17	14	46	27	122	87	272	156	102	16	9.2	6.7
23	e20	16	46	e30	116	86	277	119	130	96	8.8	5.9
24	e16	16	50	36	94	86	281	104	118	29	8.4	6.3
25	e16	20	53	39	87	79	279	92	83	19	8.1	5.9
26	17	17	51	23	87	96	317	81	75	16	8.4	5.9
27	14	20	46	26	102	256	327	76	67	14	5.7	9.0
28	14	20	41	42	100	317	328	76	103	14	5.8	11
29	16	19	39	49	---	300	440	105	149	16	5.7	11
30	15	22	35	59	---	360	560	125	115	15	8.6	11
31	17	---	e15	64	---	418	---	122	---	11	7.6	---
TOTAL	560	506.7	1415	969	1867	4105	10511	5639	4677	934	266.1	229.5
MEAN	18.1	16.9	45.6	31.3	66.7	132	350	182	156	30.1	8.58	7.65
MAX	42	23	88	64	122	418	592	604	363	96	9.6	11
MIN	12	9.7	15	15	19	49	237	62	67	11	5.7	4.7
CFSM	0.27	0.25	0.67	0.46	0.98	1.94	5.14	2.67	2.29	0.44	0.13	0.11
IN.	0.31	0.28	0.77	0.53	1.02	2.24	5.74	3.08	2.55	0.51	0.15	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945-1977, 2002, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
MEAN	52.8	97.8	116	108	113
MAX	266	317	335	306	334
(WY)	1956	1956	1974	1956	1970
MIN	9.79	13.5	29.4	24.1	29.6
(WY)	1964	1965	1965	1977	1965

SUMMARY STATISTICS

	FOR 2002 WATER YEAR	WATER YEARS 1945-1977, 2002
ANNUAL TOTAL	31679.3	
ANNUAL MEAN	86.8	116
HIGHEST ANNUAL MEAN		184
LOWEST ANNUAL MEAN		34.1
HIGHEST DAILY MEAN	604	1670
LOWEST DAILY MEAN	4.7	a 0.80
ANNUAL SEVEN-DAY MINIMUM	5.7	Sep 14 1977
MAXIMUM PEAK FLOW	728	Sep 9 1953
MAXIMUM PEAK STAGE	3.63	May 14 1953
ANNUAL RUNOFF (CFSM)	1.27	b 6.82
ANNUAL RUNOFF (INCHES)	17.30	Jan 29 1976
10 PERCENT EXCEEDS	271	1.70
50 PERCENT EXCEEDS	39	23.08
90 PERCENT EXCEEDS	8.9	274

a Also occurred September 16, 1953.
b About. From peak-stage indicator. Ice jam.
e Estimated.

MERRIMACK RIVER BASIN

01085500 CONTOOCOOK RIVER BELOW HOPKINTON DAM, AT WEST HOPKINTON, NH

LOCATION.--Lat 43°11'34", long 71°44'52", Merrimack County, Hydrologic Unit 01070003, on right bank, 400 ft downstream from covered bridge at West Hopkinton, 0.2 mi downstream from Hopkinton Dam, 2.6 mi southwest of State Highways 103 and 127 intersection in Contoocook, 3.6 mi west of State Highway 103 and US 202 intersection in Hopkinton, and 6.0 mi upstream from Warner River.

DRAINAGE AREA.--427 mi².

PERIOD OF RECORD.--Discharge records: August 1903 to April 1907 (monthly discharges only, no winter records, published as "at West Hopkinton"), August 1963 to September 1989, October 2001 to current year.

Partial-record station: October 1989 to September 30, 2001.

Peak streamflow: Water years 1964 to current year.

Miscellaneous discharge measurements only: Water years 1990-2001.

Water-quality discrete samples: Water years 1965, 1967 to 1970, 1975 to 1999.

GAGE.--Water-stage recorder. Elevation of gage is 355 ft above National Geodetic Vertical Datum of 1929, from topographic map. August 1903 to April 1907, nonrecording gage at site 400 ft upstream at different datum.

REMARKS.--Records fair. Flow regulated by power plants and by Nubanusit Lake, Edward Macdowell Reservoir since 1950, Highland Lake, Lake Franklin Pierce, Hopkinton Lake since 1962 (Reservoirs in Merrimack River basin), and other reservoirs upstream. Diversion from Hopkinton Lake to Everett Lake on Piscataquog River during periods of high flow in March 1968, April 1969, March 1977, March 1979, May-June 1984, and April 1987.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,530 ft³/s, April 8, 1987, gage height, 10.89 ft; minimum daily discharge, 15 ft³/s, July 22, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,220 ft³/s, May 14, gage height, 6.04 ft; minimum daily discharge, 26 ft³/s, September 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	164	187	168	236	460	2020	1400	828	498	54	26
2	186	169	118	124	403	393	2780	1320	1010	352	92	51
3	116	166	106	186	305	462	2670	1470	971	316	54	76
4	100	83	89	172	304	686	2380	1280	842	248	79	74
5	81	81	114	177	228	750	2410	1180	758	168	98	72
6	65	136	172	87	206	660	1480	1040	816	147	49	71
7	31	158	167	81	314	512	1330	842	1000	158	57	58
8	38	179	164	181	221	435	943	704	1270	200	51	32
9	39	216	181	217	288	385	931	588	1420	206	48	33
10	41	216	171	200	179	482	923	528	998	142	46	33
11	61	170	128	177	210	709	870	601	902	131	44	34
12	32	82	85	236	237	720	676	e495	829	124	43	34
13	34	153	167	197	298	584	583	e675	1100	109	42	34
14	38	159	180	196	357	530	504	2360	1350	108	41	35
15	65	76	123	190	261	577	676	3070	943	97	40	35
16	139	71	175	222	325	576	963	2620	964	95	39	36
17	165	236	261	186	243	487	992	1850	1190	93	43	189
18	82	149	365	187	259	494	924	1650	1170	93	39	109
19	96	116	345	177	323	534	796	1720	1070	93	37	30
20	150	152	344	67	233	466	571	1690	825	93	37	31
21	81	73	343	97	282	481	498	1510	659	102	38	32
22	55	32	314	181	431	593	469	1000	598	101	39	32
23	79	74	197	178	377	522	575	932	826	109	37	32
24	147	32	252	219	411	373	564	855	940	143	37	32
25	182	39	263	294	378	355	477	694	756	157	37	46
26	155	56	303	289	371	451	642	602	608	121	38	54
27	148	82	213	198	412	520	646	541	479	103	49	54
28	78	87	196	200	502	1080	588	692	661	98	36	54
29	81	161	277	237	---	948	815	742	580	95	36	116
30	79	178	185	217	---	1040	1100	702	532	61	33	169
31	126	---	173	152	---	1210	---	604	---	95	33	---
TOTAL	2965	3746	6358	5690	8594	18475	31796	35957	26895	4656	1446	1714
MEAN	95.6	125	205	184	307	596	1060	1160	896	150	46.6	57.1
MAX	195	236	365	294	502	1210	2780	3070	1420	498	98	189
MIN	31	32	85	67	179	355	469	495	479	61	33	26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964-1989, 2002, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	2002
MEAN	352	579	740	563	709	1262	1942	993	557	279	212	201															
MAX	1415	1322	1856	1555	2016	2724	3596	1839	1468	1036	798	573															
(WY)	1976	1976	1974	1978	1984	1979	1987	1972	1984	1973	1986	1975															
MIN	61.0	88.8	175	110	163	363	521	330	105	61.4	43.0	48.4															
(WY)	1965	1965	1965	1981	1977	1965	1985	1985	1964	1978	1983	1983															

SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 1964-1989, 2002

ANNUAL TOTAL	148292																										
ANNUAL MEAN	406																										
HIGHEST ANNUAL MEAN										1067		1973															
LOWEST ANNUAL MEAN										229		1965															
HIGHEST DAILY MEAN					3070		May 15			7500		Apr 9 1987															
LOWEST DAILY MEAN					26		Sep 1			15		Jul 22 1965															
ANNUAL SEVEN-DAY MINIMUM					34		Sep 8			24		Jul 12 1965															
MAXIMUM PEAK FLOW					3220		May 14			7530		Apr 8 1987															
MAXIMUM PEAK STAGE					6.04		May 14			10.89		Apr 8 1987															
10 PERCENT EXCEEDS					994					1750																	
50 PERCENT EXCEEDS					196					412																	
90 PERCENT EXCEEDS					39					97																	

e Estimated.

MERRIMACK RIVER BASIN

01085800 WEST BRANCH WARNER RIVER NEAR BRADFORD, NH

LOCATION.--Lat 43°15'33", long 72°01'35", Merrimack County, Hydrologic Unit 01070003, on left bank, 75 ft downstream from small right-bank tributary, 200 ft upstream from Fairgrounds Road bridge, 3.5 mi west of Bradford, 4.0 mi west of State Highway 103 and 114 intersection near Bradford, and 4.3 mi south of Newbury.

DRAINAGE AREA.--5.75 mi².

PERIOD OF RECORD.--Discharge records: May 1962 to current year.

REVISED RECORDS.--WDR NH-VT-1: 1984.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 935 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 160 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 1	0730	180	6.43	May 13	2100	* 202	* 6.58

Minimum discharge, 0.10 ft³/s, August 21, 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.65	0.85	9.6	e1.0	7.4	8.9	117	18	19	3.1	0.81	0.52
2	0.61	0.88	4.1	e0.91	5.5	7.0	45	39	10	2.6	2.6	0.47
3	0.56	0.76	2.5	0.95	4.1	28	41	38	7.7	2.1	1.8	0.59
4	0.46	0.79	2.0	0.94	3.8	31	40	20	6.3	1.7	0.92	0.62
5	0.46	0.72	1.8	0.98	3.2	14	23	15	7.4	1.4	0.72	0.41
6	0.50	1.0	1.6	1.1	2.8	10	17	12	30	1.3	0.65	0.26
7	0.48	0.89	1.2	1.3	2.7	8.5	14	10	22	1.3	0.53	0.24
8	0.54	0.79	1.1	1.3	2.6	7.5	12	9.1	13	1.3	0.43	0.20
9	0.45	0.76	1.2	1.3	2.4	8.9	12	8.4	9.3	1.1	0.35	0.19
10	0.54	0.71	1.1	1.9	2.2	57	13	8.3	7.2	1.1	0.31	0.20
11	0.46	0.70	1.1	3.5	13	25	11	7.2	7.2	0.87	0.31	0.20
12	0.44	0.66	1.5	2.8	8.1	16	9.5	8.4	29	0.82	0.22	0.30
13	0.45	0.59	1.2	2.1	6.1	13	9.4	71	27	0.74	0.20	0.31
14	0.51	0.61	2.7	1.7	4.3	15	12	91	15	0.66	0.20	0.29
15	0.94	0.64	7.7	1.9	3.7	14	34	32	19	0.65	0.16	0.40
16	0.84	0.65	4.6	1.8	3.8	12	20	20	30	0.81	0.17	1.1
17	0.71	0.59	3.4	1.5	3.9	10	14	16	22	0.70	0.20	0.70
18	0.70	0.60	3.7	1.5	3.4	9.6	11	24	13	0.69	0.15	0.42
19	0.66	0.54	3.2	1.3	3.1	8.8	9.8	26	9.5	1.8	0.15	0.40
20	0.65	0.56	2.9	1.3	3.0	7.9	9.1	21	7.4	3.0	0.18	0.39
21	0.73	0.56	2.7	1.4	7.6	8.8	8.3	15	6.3	1.3	0.13	0.31
22	0.71	0.54	2.1	1.4	18	7.6	7.8	13	11	0.92	0.13	0.30
23	0.67	0.54	1.8	1.5	12	7.3	9.1	10	15	1.2	0.21	0.27
24	0.58	0.55	2.5	2.8	8.8	6.8	10	9.1	11	1.4	0.23	0.26
25	0.60	0.73	3.4	7.7	7.3	6.3	12	8.0	6.8	0.82	0.35	0.25
26	0.68	1.5	2.6	5.2	9.1	6.4	15	7.2	5.0	0.66	0.22	0.26
27	0.57	1.4	2.3	4.1	18	18	13	6.7	5.2	0.65	0.17	0.69
28	0.55	1.1	1.8	4.0	13	20	13	6.4	7.1	0.69	0.16	5.0
29	0.51	1.4	1.7	4.9	---	22	22	6.4	5.2	0.61	0.78	1.4
30	0.52	3.5	1.5	13	---	69	22	7.6	3.8	0.51	1.8	0.70
31	0.56	---	1.2	10	---	57	---	15	---	0.41	0.73	---
TOTAL	18.29	26.11	81.8	87.08	182.9	541.3	606.0	598.8	387.4	36.91	15.97	17.65
MEAN	0.59	0.87	2.64	2.81	6.53	17.5	20.2	19.3	12.9	1.19	0.52	0.59
MAX	0.94	3.5	9.6	13	18	69	117	91	30	3.1	2.6	5.0
MIN	0.44	0.54	1.1	0.91	2.2	6.3	7.8	6.4	3.8	0.41	0.13	0.19
CFSM	0.10	0.15	0.46	0.49	1.14	3.04	3.51	3.36	2.25	0.21	0.09	0.10
IN.	0.12	0.17	0.53	0.56	1.18	3.50	3.92	3.87	2.51	0.24	0.10	0.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2002, BY WATER YEAR (WY)

MEAN	7.60	12.0	11.6	8.61	9.61	22.0	36.4	17.7	7.82	3.18	2.66	2.47
MAX	30.9	29.7	33.4	33.3	45.9	46.9	93.7	41.1	32.9	13.6	26.1	16.2
(WY)	1976	1996	1997	1978	1981	1977	1969	1984	1998	1996	1990	1999
MIN	0.49	0.87	2.64	1.87	0.95	4.57	10.5	5.01	1.04	0.26	0.17	0.17
(WY)	1964	2002	2002	1977	1980	2001	1995	1965	1965	1965	1965	1964

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1962 - 2002

ANNUAL TOTAL	3087.97	2600.21	
ANNUAL MEAN	8.46	7.12	
HIGHEST ANNUAL MEAN			11.8
LOWEST ANNUAL MEAN			4.60
HIGHEST DAILY MEAN	254 Apr 22	117 Apr 1	351 Oct 21 1996
LOWEST DAILY MEAN	0.19 Aug 30	a 0.13 Aug 21	0.07 Aug 7 1965
ANNUAL SEVEN-DAY MINIMUM	0.23 Aug 25	0.16 Aug 16	0.09 Sep 16 1964
MAXIMUM PEAK FLOW		202 May 13	b 829 Sep 17 1999
MAXIMUM PEAK STAGE		6.58 May 13	c 9.04 Sep 17 1999
INSTANTANEOUS LOW FLOW		a 0.10 Aug 21	d 0.06 Sep 20 1964
ANNUAL RUNOFF (CFSM)	1.47	1.24	2.06
ANNUAL RUNOFF (INCHES)	19.98	16.82	27.93
10 PERCENT EXCEEDS	13	18	28
50 PERCENT EXCEEDS	3.2	2.1	5.0
90 PERCENT EXCEEDS	0.41	0.40	0.65

- a Also occurred on August 22.
- b From rating curve extended above 300 ft³/s.
- c From floodmarks.
- d About.
- e Estimated.

01089100 SOUHOOK RIVER AT PEMBROKE ROAD NEAR CONCORD, NH

LOCATION.--Lat 43°12'47", long 71°28'49", Merrimack County, Hydrologic Unit 01070002, on left bank, 100 ft upstream of Pembroke Road bridge, 550 ft upstream of French's Brook, 770 ft east of New Hampshire Highway 106 and Pembroke Road intersection, 2.9 mi downstream from U.S. Highways 4, 202, and New Hampshire State Highway 9 bridges, 2.9 mi east of the State Capitol Building in Concord, 4.7 mi southwest of Chichester.

DRAINAGE AREA.--81.9 mi².

PERIOD OF RECORD.--Discharge records: March 1988 to current year. Records for October 1951 to September 1987, at site 0.9 mi upstream, published "near Concord" (station 01089000) are not equivalent because of difference in drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 265 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Records affected by the annual drawdown event at Shellcamp Pond 21.5 mi upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 14	2000	* 667	* 7.48	No peaks greater than base discharge.			

Minimum discharge, 4.9 ft³/s, August 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	13	25	19	38	e125	315	193	208	65	11	10
2	12	13	28	18	e41	e107	357	187	155	59	12	9.2
3	11	14	24	17	e39	142	270	346	113	53	11	8.9
4	11	13	20	16	37	249	263	271	87	47	9.9	17
5	10	13	19	16	31	e190	235	200	78	42	9.6	19
6	9.8	14	19	16	29	e160	198	161	136	36	9.0	13
7	8.8	15	17	17	27	122	169	137	255	34	8.6	10
8	8.6	14	16	17	26	106	151	120	197	31	8.4	9.1
9	8.2	13	16	17	25	99	137	107	149	29	8.1	8.3
10	14	13	16	17	e22	150	127	105	117	27	7.6	7.7
11	20	12	16	19	e42	185	113	100	95	23	7.6	7.1
12	18	12	16	20	e55	144	103	88	133	22	7.3	6.8
13	16	11	16	21	e55	122	98	140	270	22	7.1	6.4
14	14	12	18	21	e47	112	144	542	201	20	7.1	6.2
15	16	12	32	21	41	104	215	510	164	19	7.0	6.3
16	16	12	37	20	39	96	252	329	171	19	6.8	22
17	17	12	30	19	41	87	198	249	158	17	6.6	20
18	22	11	36	e18	42	84	168	242	139	17	6.3	14
19	23	11	46	e18	e39	79	139	339	120	19	6.1	12
20	20	11	41	18	39	78	126	263	105	22	6.1	10
21	18	11	38	18	69	90	108	205	83	19	5.9	9.2
22	17	11	32	18	120	105	96	173	84	17	6.0	8.8
23	15	11	25	18	e128	e85	95	148	175	20	6.7	9.8
24	15	11	32	20	e110	86	93	129	179	22	7.0	9.2
25	14	11	42	25	e95	84	89	112	143	17	7.1	8.9
26	13	12	36	27	90	84	124	97	105	14	6.7	8.6
27	12	13	33	28	116	210	156	89	86	13	6.2	9.5
28	12	15	e25	28	e130	297	139	83	92	12	5.8	15
29	12	16	26	29	---	261	171	76	94	13	7.0	19
30	11	18	22	33	---	261	207	70	76	12	11	15
31	11	---	21	40	---	296	---	116	---	12	11	---
TOTAL	438.4	380	820	649	1613	4400	5056	5927	4168	794	243.6	336.0
MEAN	14.1	12.7	26.4	20.9	57.6	142	168	191	139	25.6	7.86	11.2
MAX	23	18	46	40	130	297	357	542	270	65	12	22
MIN	8.2	11	16	16	22	78	89	70	76	12	5.8	6.2
CFSM	0.17	0.15	0.32	0.26	0.70	1.73	2.06	2.33	1.70	0.31	0.10	0.14
IN.	0.20	0.17	0.37	0.29	0.73	2.00	2.30	2.69	1.89	0.36	0.11	0.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	76.3	121	129	120	120	223	272	160	101	42.6	33.9	35.0			
MAX	168	289	368	420	350	417	463	333	441	127	95.4	140			
(WY)	1992	1996	1997	1996	1996	1998	2001	1996	1998	1998	1990	1999			
MIN	12.7	12.7	26.5	20.9	34.6	134	120	55.5	16.1	11.6	7.86	8.33			
(WY)	1998	2002	2002	2002	1993	1992	1999	1999	1999	1993	2002	1995			

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1988 - 2002

ANNUAL TOTAL	32929.3	24825.0		
ANNUAL MEAN	90.2	68.0	120	196
HIGHEST ANNUAL MEAN			198	2002
LOWEST ANNUAL MEAN			68.0	1996
HIGHEST DAILY MEAN	1120	Apr 14	542	May 14
LOWEST DAILY MEAN	7.6	Sep 20	5.8	Aug 28
ANNUAL SEVEN-DAY MINIMUM	8.1	Sep 14	6.2	Aug 17
MAXIMUM PEAK FLOW			667	May 14
MAXIMUM PEAK STAGE			7.48	May 14
INSTANTANEOUS LOW FLOW			4.9	Aug 29
ANNUAL RUNOFF (CFSM)	1.10	0.83	1.46	1.46
ANNUAL RUNOFF (INCHES)	14.96	11.28	19.84	19.84
10 PERCENT EXCEEDS	240	181	277	277
50 PERCENT EXCEEDS	45	25	70	70
90 PERCENT EXCEEDS	11	8.9	14	14

e Estimated.

MERRIMACK RIVER BASIN

01092000 MERRIMACK RIVER NEAR GOFFS FALLS, BELOW MANCHESTER, NH

LOCATION.--Lat 42°56'53", long 71°27'50", Hillsborough County, Hydrologic Unit 01070002, on right bank, 600 ft upstream from bridge on Interstate Highway 293, 0.8 mi downstream from Bowman Brook, 1.3 mi north of Goffs Falls, 2.2 mi downstream from Piscataquog River, and 3.0 mi south of Manchester City Hall on Elm Street.

DRAINAGE AREA.--3,092 mi².

PERIOD OF RECORD.--Discharge records: October 1936 to current year. October 1936 monthly discharge only, published in WSP 1301.

REVISED RECORDS.--WSP 1231: 1937. WSP 1271: 1937(M, m).

GAGE.--Water-stage recorder. Datum of gage is 109.27 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by power plants, by Franklin Falls Reservoir since 1942, and by Squam, Newfound, Winnepesaukee, Winnisquam, and other lakes and reservoirs upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1722, 150,000 ft³/s, March 20, 1936, gage height, 35.19 ft, from floodmarks, from rating curve extended above 48,000 ft³/s on basis of computation of flow over dam at gage heights 25.87 ft and 35.19 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,700 ft³/s, April 16, gage height, 8.54 ft; minimum daily discharge, 538 ft³/s, September 13, 14, and 17.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1570	1180	2280	1220	1760	4330	10000	7090	5580	2670	885	702
2	1350	1200	3310	1270	2060	3440	14000	7300	5500	2480	1090	697
3	1370	1540	2880	1010	1980	3790	14700	8580	5170	2550	1030	780
4	1380	1540	2490	1060	2100	5430	13700	9850	4420	2140	992	876
5	840	1260	1700	1090	1970	6250	13700	8740	4200	1660	660	906
6	964	1320	1850	1130	1500	5490	11300	7500	4880	1680	e1100	760
7	1040	e1550	2040	1110	1610	4120	8740	6450	6470	1830	e875	702
8	950	1380	1720	1330	1670	4190	7670	6040	7160	1490	e775	703
9	952	1550	1730	1120	1520	3490	6420	5880	6280	1730	e805	693
10	1050	1460	1730	1370	1400	4610	6080	4750	5780	1580	e810	703
11	1040	1410	1620	1240	1850	6130	7000	4180	4190	2270	e915	646
12	1250	1300	1210	1080	1800	7980	7860	5050	4910	1850	e880	573
13	1150	1110	1510	1200	3030	6580	6940	5500	7290	1170	806	538
14	903	1240	1610	1210	2620	5540	7550	10500	10600	1100	716	538
15	804	1300	1530	1170	2520	5040	13000	17800	8750	1130	744	547
16	847	1090	1940	1200	2320	5390	19100	16200	7190	1270	709	1120
17	1140	1080	2400	1410	2270	5140	18300	13000	6760	1040	708	538
18	1440	1540	2430	1310	2160	4430	15600	11200	6600	1050	665	960
19	956	1170	2050	1100	1830	3860	13300	12500	6080	1090	669	1200
20	815	1250	2460	1090	1850	4180	10500	12300	4790	1000	658	874
21	1040	1130	2160	1150	2150	3880	8330	10800	3930	1120	652	915
22	1210	1180	1910	1130	2830	4190	6930	9070	3810	1250	635	791
23	1120	1120	1760	953	3570	3560	5840	7930	4350	1510	693	834
24	765	1040	1750	1190	3510	3690	5180	7150	5750	1430	692	645
25	1220	926	1950	1320	3540	3780	4730	6170	5510	1260	706	647
26	1340	1190	1870	1350	2980	2920	4330	5650	5070	1170	671	647
27	1240	1310	1940	1560	3230	5380	5510	5870	3840	1030	667	725
28	1280	2260	1610	1600	3680	5970	5690	5020	4010	1040	632	912
29	1070	1450	1320	1590	---	6330	5920	4910	4110	1030	725	833
30	1130	1520	1510	1830	---	6090	6320	4640	4180	1020	906	1100
31	1060	---	1490	1820	---	7530	---	4910	---	962	727	---
TOTAL	34286	39596	59760	39213	65310	152730	284240	252530	167160	45602	24198	23105
MEAN	1106	1320	1928	1265	2332	4927	9475	8146	5572	1471	781	770
MAX	1570	2260	3310	1830	3680	7980	19100	17800	10600	2670	1100	1200
MIN	765	926	1210	953	1400	2920	4330	4180	3810	962	632	538

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2002, BY WATER YEAR (WY)

MEAN	3008	4650	5232	4496	4707	7983	13970	8625	4536	2444	1940	2086
MAX	10380	12910	13690	10840	11370	18240	25660	18250	16480	11470	8576	14500
(WY)	1978	1996	1984	1978	1970	1953	1969	1954	1984	1973	1990	1938
MIN	771	1320	1458	1265	1354	2141	4612	3059	1354	808	781	745
(WY)	1965	2002	1979	2002	1980	1940	1995	1957	1964	1991	2002	1957

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1937 - 2002

ANNUAL TOTAL	1454117	1187730										
ANNUAL MEAN	3984	3254								5279		
HIGHEST ANNUAL MEAN										8400		1984
LOWEST ANNUAL MEAN										2248		1965
HIGHEST DAILY MEAN	28300	Apr 15	19100	Apr 16	94800	Sep 23	1938					
LOWEST DAILY MEAN	582	Aug 14	a 538	Sep 13	98	Oct 11	1964					
ANNUAL SEVEN-DAY MINIMUM	694	Sep 14	605	Sep 9	394	Sep 25	1964					
MAXIMUM PEAK FLOW			19700	Apr 16	b 102000	Sep 23	1938					
MAXIMUM PEAK STAGE			8.54	Apr 16	25.87	Sep 23	1938					
10 PERCENT EXCEEDS	9760	7290	12100									
50 PERCENT EXCEEDS	2310	1610	3390									
90 PERCENT EXCEEDS	821	771	1190									

a Also occurred on September 14 and 17.

b From rating curve extended above 48,000 ft³/s as explained above.

e Estimated.

01093800 STONY BROOK TRIBUTARY NEAR TEMPLE, NH

LOCATION.--Lat 42°51'36", long 71°50'00", Hillsborough County, Hydrologic Unit 01070002, on left bank, 450 ft downstream from Putnam Road bridge, 2.9 mi north of Temple, 5.0 mi west of Wilton (revised), and 5.5 mi upstream from mouth.

DRAINAGE AREA.--3.60 mi².

PERIOD OF RECORD.--Discharge records: May 1963 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 900 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those below 0.3 ft³/s, and those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 110 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gageheight (ft)
May 13	2115	* 122	* 4.12	No other peak greater than base discharge.			

Minimum discharge, 0.06 ft³/s, August 22, 23.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.46	0.55	2.3	e0.80	4.2	e4.3	41	13	9.8	2.7	0.39	0.21
2	0.44	0.56	1.5	e0.75	e4.0	e3.7	20	15	5.7	2.3	0.36	0.22
3	0.41	e0.48	1.1	e0.70	3.3	14	15	16	4.6	2.0	0.38	0.39
4	0.40	e0.42	0.97	e0.70	e2.7	11	12	9.9	3.8	1.7	0.31	0.31
5	0.36	e0.36	0.98	e0.75	2.2	6.9	9.5	7.8	4.3	1.2	0.28	0.20
6	e0.42	0.54	1.00	e0.90	e1.9	5.7	8.2	6.7	9.3	1.1	0.23	0.16
7	e0.54	e0.48	0.80	e0.95	e1.8	5.0	7.1	6.1	26	1.1	0.22	0.14
8	e0.45	e0.45	0.71	0.96	1.9	4.6	6.7	5.4	12	1.0	0.20	0.12
9	e0.40	e0.42	0.87	e1.0	1.7	4.6	6.7	5.6	7.7	0.95	0.18	0.11
10	e0.34	e0.40	0.73	1.2	1.5	9.3	6.0	5.7	6.0	0.96	0.13	0.10
11	e0.34	e0.38	0.78	1.4	e4.4	7.0	5.2	4.8	5.0	0.77	e0.13	0.11
12	e0.32	e0.38	0.83	1.4	e4.7	5.6	4.9	5.5	11	0.71	0.12	0.14
13	e0.30	e0.37	1.2	1.3	e3.0	5.2	5.0	38	13	0.68	0.13	0.10
14	e0.30	e0.38	3.1	e1.2	e2.5	4.8	5.1	59	8.2	0.61	0.13	0.10
15	0.71	e0.38	7.4	1.2	2.2	4.2	10	23	9.8	0.54	0.13	0.15
16	0.55	e0.38	3.5	1.2	2.6	4.9	7.9	15	13	0.55	0.14	0.78
17	0.54	e0.36	2.4	1.1	2.5	4.8	6.0	11	12	0.51	0.13	0.42
18	0.40	e0.35	2.5	1.0	e2.3	4.5	5.3	18	7.7	0.47	0.12	0.31
19	e0.40	e0.35	2.1	0.95	e2.3	4.3	4.9	18	6.0	0.57	0.11	0.27
20	e0.40	e0.36	2.1	0.97	2.3	4.0	4.6	13	5.2	0.91	0.10	0.30
21	0.39	e0.35	1.9	0.96	8.0	4.9	4.3	11	4.5	0.65	0.09	0.34
22	0.39	e0.35	1.5	1.0	8.1	4.5	4.4	8.9	6.1	0.48	0.08	0.40
23	0.35	e0.34	1.4	1.1	5.9	4.2	5.2	7.7	8.3	0.99	0.08	0.65
24	0.48	e0.38	2.5	2.0	e4.6	4.1	5.3	6.8	5.8	1.3	0.09	0.49
25	0.46	e0.46	2.9	3.1	4.3	4.2	5.4	5.9	4.2	0.65	0.11	0.43
26	0.42	1.2	2.2	2.5	e4.3	4.5	7.1	5.5	3.3	0.49	0.10	0.48
27	0.38	0.79	1.7	2.2	5.3	19	6.2	5.2	3.3	0.46	0.10	1.3
28	0.35	0.67	e1.4	2.3	4.7	16	7.9	5.1	6.1	0.53	0.09	1.5
29	0.36	0.77	e1.0	3.0	---	14	15	5.2	5.2	0.57	0.19	0.43
30	0.36	1.4	e0.85	5.7	---	26	16	4.9	3.4	0.52	0.66	0.28
31	0.35	---	e0.91	4.8	---	23	---	8.5	---	0.44	0.30	---
TOTAL	12.77	15.06	55.13	49.09	99.2	242.8	267.9	371.2	230.3	28.41	5.81	10.94
MEAN	0.41	0.50	1.78	1.58	3.54	7.83	8.93	12.0	7.68	0.92	0.19	0.36
MAX	0.71	1.4	7.4	5.7	8.1	26	41	59	26	2.7	0.66	1.5
MIN	0.30	0.34	0.71	0.70	1.5	3.7	4.3	4.8	3.3	0.44	0.08	0.10
CFSM	0.11	0.14	0.49	0.44	0.98	2.18	2.48	3.33	2.13	0.25	0.05	0.10
IN.	0.13	0.16	0.57	0.51	1.03	2.51	2.77	3.84	2.38	0.29	0.06	0.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2002, BY WATER YEAR (WY)

	4.33	7.37	8.17	7.04	6.87	13.9	18.8	9.26	5.05	1.83	1.42	1.64
MEAN	4.33	7.37	8.17	7.04	6.87	13.9	18.8	9.26	5.05	1.83	1.42	1.64
MAX (WY)	1997	1996	1997	1999	1970	1983	1987	1984	1968	1968	1986	1999
MIN (WY)	1965	2002	1979	1977	1977	1989	1985	1985	1964	1966	1966	1964

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1963 - 2002

ANNUAL TOTAL	1693.40	1388.61	
ANNUAL MEAN	4.64	3.80	7.16
HIGHEST ANNUAL MEAN			10.9
LOWEST ANNUAL MEAN			2.58
HIGHEST DAILY MEAN	75	Apr 22	343
LOWEST DAILY MEAN	0.12	Aug 30	0.05
ANNUAL SEVEN-DAY MINIMUM	0.14	Aug 25	0.07
MAXIMUM PEAK FLOW			648
MAXIMUM PEAK STAGE			b 7.81
INSTANTANEOUS LOW FLOW			c 0.00
ANNUAL RUNOFF (CFSM)	1.29		1.99
ANNUAL RUNOFF (INCHES)	17.50		27.01
10 PERCENT EXCEEDS	9.6		17
50 PERCENT EXCEEDS	1.9		3.5
90 PERCENT EXCEEDS	0.32		0.45

- a Also occurred on August 23.
- b Ice jam. Also occurred on December 21, 1973.
- c No flow for part of September 26, 1976.
- e Estimated.

MERRIMACK RIVER BASIN

01094000 SOUHEGAN RIVER AT MERRIMACK, NH

LOCATION.--Lat 42°51'27", long 71°30'24", Hillsborough County, Hydrologic Unit 01070002, on left bank, at head of Wildcat Falls, 0.6 mi upstream from south bound bridge on Everett Turnpike, 0.9 mi southwest of Merrimack Town Hall, 1.3 mi upstream from mouth, 1.7 mi northwest of Litchfield Town Hall.

DRAINAGE AREA.--170 mi².

PERIOD OF RECORD.--Discharge records: July 1909 to September 1976, October 2001 to current year. Partial-record station: October 1976 to September 2001.

Peak streamflow: Water years 1910 to 1976, 1980, 1982 to current.

Water-quality discrete samples: Water years 1953, 1967 to 1976, 1979 to 1984, 1986, 1987, 1989 to 1999.

Miscellaneous discharge measurements only: Water years 1979 to 2001.

REVISED RECORDS.--WSP 431: 1909-14. WSP 726: Drainage area. WSP 781: 1924(M). WSP 1231: 1914-15(M), 1917(M), 1919-23(M), 1927-28(M), 1929, 1930-34(M).

GAGE.--Water-stage recorder. Datum of gage is 160.58 ft above National Geodetic Vertical Datum of 1929. Prior to April 12, 1911, nonrecording gage at site 300 ft downstream at datum 0.38 ft lower. April 12, 1911 to October 14, 1913, nonrecording gage at present site and datum.

REMARKS.--Records fair. Slight diurnal fluctuation at times caused by mill upstream. Diversion to Pennichuck Brook basin for municipal supply of Nashua during periods of low flow from August 1965 to October 1966, July 1969 to November 1971, October 1972, October 1973, July to September 1974, June to August 1975, June to September 1976. High flow slightly affected by retarding reservoirs since 1963.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,900 ft³/s, March 19, 1936, gage height, 16.2 ft, from rating curve extended above 7,300 ft³/s on basis of velocity-area studies and computation of flow over dam at gage height 12.78 ft; minimum discharge, 3.8 ft³/s, August 17, September 8, October 1, 1965. Stage and discharge from the flood of March 19, 1936, are the greatest since 1830.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,250 ft³/s and maximums (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 14	2215	* 2,150	* 6.35	No other peak greater than base discharge.			
Minimum discharge, 13 ft ³ /s, September 14, 15.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	27	54	50	e140	e170	865	554	439	186	36	28
2	44	28	57	46	e135	151	1050	492	409	151	38	26
3	40	29	51	44	122	209	794	601	318	130	53	25
4	36	29	48	41	e110	e350	684	502	250	121	43	24
5	33	29	54	43	88	329	567	407	218	107	36	23
6	30	31	67	48	70	e250	475	320	246	87	32	21
7	27	47	47	48	73	e205	415	284	650	80	29	19
8	25	57	37	47	e72	178	341	251	821	76	27	18
9	24	43	44	45	e72	165	307	243	603	75	25	18
10	24	30	45	46	e62	207	287	226	469	69	24	17
11	24	28	43	57	e80	e280	264	206	371	65	24	16
12	23	28	51	61	e110	e250	236	183	322	59	23	15
13	23	29	47	59	128	198	211	325	595	53	26	14
14	23	30	52	57	88	183	205	1620	520	49	22	13
15	25	30	111	64	92	178	236	1660	486	45	20	13
16	26	31	136	62	e90	160	357	1030	638	42	19	18
17	32	30	114	63	e95	182	320	789	631	41	21	22
18	32	30	104	51	e110	185	252	750	559	42	19	20
19	37	29	111	43	99	171	216	988	464	41	18	19
20	33	30	e110	44	103	172	181	773	351	40	18	18
21	31	30	e93	45	153	192	175	632	279	41	17	17
22	30	31	82	51	e250	e230	167	528	233	39	16	16
23	27	38	69	49	246	211	182	442	322	37	17	19
24	27	32	71	58	219	196	210	366	352	40	16	23
25	25	31	e90	61	188	183	202	315	275	46	16	22
26	23	34	e95	85	156	186	269	268	206	43	17	21
27	23	38	e85	93	159	518	275	240	167	40	16	23
28	23	51	71	69	e200	746	216	292	206	39	15	29
29	24	41	58	91	---	669	401	336	311	41	16	39
30	25	40	55	102	---	628	586	314	262	40	25	36
31	25	---	48	131	---	686	---	275	---	40	28	---
TOTAL	891	1011	2200	1854	3510	8618	10946	16212	11973	2005	752	632
MEAN	28.7	33.7	71.0	59.8	125	278	365	523	399	64.7	24.3	21.1
MAX	47	57	136	131	250	746	1050	1660	821	186	53	39
MIN	23	27	37	41	62	151	167	183	167	37	15	13
CFSM	0.17	0.20	0.42	0.35	0.73	1.63	2.13	3.06	2.33	0.38	0.14	0.12
IN.	0.19	0.22	0.48	0.40	0.76	1.87	2.38	3.53	2.60	0.44	0.16	0.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909-1976, 2002, BY WATER YEAR (WY)												
MEAN	107	223	282	268	271	624	769	379	213	101	77.5	88.2
MAX	718	824	849	752	825	2278	1664	916	664	405	769	799
(WY)	1956	1956	1974	1956	1970	1936	1933	1954	1968	1938	1915	1938
MIN	15.8	25.2	45.1	25.3	50.9	155	276	140	45.4	18.8	8.27	10.6
(WY)	1965	1965	1930	1925	1911	1940	1927	1911	1964	1966	1966	1965

SUMMARY STATISTICS			FOR 2002 WATER YEAR		WATER YEARS 1909-1976, 2002	
ANNUAL TOTAL				60604		
ANNUAL MEAN				166		283
HIGHEST ANNUAL MEAN						430
LOWEST ANNUAL MEAN						97.9
HIGHEST DAILY MEAN				1660		14200
LOWEST DAILY MEAN				a 13		4.0
ANNUAL SEVEN-DAY MINIMUM				15		4.8
MAXIMUM PEAK FLOW				2150		b 16900
MAXIMUM PEAK STAGE				6.35		16.20
INSTANTANEOUS LOW FLOW				a 13		c 3.8
ANNUAL RUNOFF (CFSM)				0.97		1.66
ANNUAL RUNOFF (INCHES)				13.18		22.51
10 PERCENT EXCEEDS				451		690
50 PERCENT EXCEEDS				63		150
90 PERCENT EXCEEDS				23		31

a Also occurred on September 15.
b From rating curve extended above 7,300 ft³/s as explained above.
c Also occurred on September 8 and October 1, 1965.
e Estimated.

010965852 BEAVER BROOK AT NORTH PELHAM, NH

LOCATION.--Lat 42°46'59", long 71°21'14", Rockingham County, Hydrologic Unit 01070002, on right bank, 10 ft downstream from State Highway 128 bridge at the Windham-Pelham town line, 0.7 mi north of North Pelham, 1.3 mi south of State Highways 128 and 111 intersection in West Windham, and 4.7 mi north of Pelham.

DRAINAGE AREA.--47.8 mi².

PERIOD OF RECORD.--Discharge records: October 1986 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 150 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair, and those for February 9 and 10, which are poor. Some regulation at low- and medium-flows.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 14	1945	* 357	* 8.42	No other peaks greater than base discharge.			

Minimum discharge, 1.2 ft³/s, August 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	4.9	5.5	7.9	35	38	152	134	122	41	5.3	2.6
2	e3.7	15	5.4	7.1	e30	36	179	121	102	39	5.5	3.2
3	e3.3	14	5.1	6.9	e33	56	154	141	79	37	5.4	2.9
4	3.3	11	4.9	6.6	30	68	161	122	64	34	5.1	2.7
5	3.4	9.5	4.6	6.5	e26	56	145	99	59	31	4.5	2.4
6	3.3	9.5	3.4	6.2	e20	49	124	84	81	25	4.3	2.5
7	3.3	9.1	4.4	6.7	23	45	108	73	158	21	4.0	2.0
8	3.4	5.7	4.5	7.4	25	40	95	63	168	19	3.7	1.8
9	3.9	6.9	5.4	7.4	18	38	87	57	134	8.3	3.6	1.8
10	4.7	7.1	4.9	7.5	13	61	81	57	116	10	3.5	1.7
11	2.4	6.6	5.0	9.5	e25	64	71	51	88	11	3.3	1.7
12	2.9	6.0	4.6	11	e36	53	66	48	97	9.5	3.0	1.7
13	14	5.5	5.2	17	e29	49	60	96	152	7.1	2.8	2.1
14	14	5.0	8.1	24	e26	48	68	306	127	7.7	2.6	2.0
15	10	5.0	23	21	24	44	72	309	130	7.9	2.3	2.0
16	4.6	4.8	19	20	23	46	80	236	157	7.6	2.1	3.5
17	5.8	4.3	14	13	24	46	72	181	157	7.1	2.4	2.7
18	17	4.2	12	7.4	30	42	60	181	143	6.6	2.1	2.3
19	19	4.3	21	12	29	42	55	225	115	12	2.1	e1.9
20	14	9.4	19	12	27	45	52	184	92	10	1.9	e2.0
21	4.4	5.3	17	11	47	55	47	160	76	8.8	1.7	e2.0
22	4.4	3.5	13	11	57	67	45	133	64	7.7	1.7	e2.0
23	4.5	2.9	5.9	11	53	57	55	105	82	7.2	1.8	e4.0
24	4.9	2.8	13	18	48	52	50	88	75	8.0	1.8	e2.5
25	4.8	2.9	20	22	39	51	44	73	64	7.6	2.3	e2.2
26	4.5	3.2	15	22	38	54	92	63	58	6.6	1.7	e2.0
27	4.2	3.1	13	22	37	156	96	62	49	6.2	1.6	2.8
28	3.9	3.3	11	22	42	199	89	100	56	6.0	2.3	5.1
29	3.9	3.7	10	23	---	169	123	112	60	5.9	2.8	6.2
30	3.9	5.9	9.2	32	---	143	142	95	49	5.7	3.6	3.8
31	3.6	---	8.6	36	---	122	---	82	---	5.3	2.6	---
TOTAL	186.9	184.4	314.7	447.1	887	2091	2725	3841	2974	426.8	93.4	78.1
MEAN	6.03	6.15	10.2	14.4	31.7	67.5	90.8	124	99.1	13.8	3.01	2.60
MAX	19	15	23	36	57	199	179	309	168	41	5.5	6.2
MIN	2.4	2.8	3.4	6.2	13	36	44	48	49	5.3	1.6	1.7
CFSM	0.13	0.13	0.21	0.30	0.66	1.41	1.90	2.59	2.07	0.29	0.06	0.05
IN.	0.15	0.14	0.24	0.35	0.69	1.63	2.12	2.99	2.31	0.33	0.07	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2002, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	42.0	68.1	87.5	79.3	88.6	150	164	91.3	54.8	19.9	19.8	18.9				
MAX	185	148	228	223	181	281	406	145	241	50.2	80.1	86.5				
(WY)	1997	1996	1987	1996	1996	1994	1987	1998	1998	1998	1991	1991				
MIN	5.15	6.15	10.2	14.4	31.7	56.5	56.9	34.4	7.27	3.53	1.52	2.60				
(WY)	1998	2002	2002	2002	2002	1989	1999	1999	1999	1993	1999	2002				

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1987 - 2002
ANNUAL TOTAL	22043.4	14249.4	
ANNUAL MEAN	60.4	39.0	73.5
HIGHEST ANNUAL MEAN			99.9
LOWEST ANNUAL MEAN			39.0
HIGHEST DAILY MEAN	1110	Mar 23	1500
LOWEST DAILY MEAN	2.4	Sep 18	0.83
ANNUAL SEVEN-DAY MINIMUM	2.8	Sep 14	1.8
MAXIMUM PEAK FLOW			357
MAXIMUM PEAK STAGE			8.42
INSTANTANEOUS LOW FLOW			1.2
ANNUAL RUNOFF (CFSM)	1.26		0.82
ANNUAL RUNOFF (INCHES)	17.16		11.09
10 PERCENT EXCEEDS	135		118
50 PERCENT EXCEEDS	23		14
90 PERCENT EXCEEDS	3.9		2.6

a Also occurred September 5, 8, 1999.
e Estimated.

MERRIMACK RIVER BASIN

01100505 SPICKET RIVER AT NORTH SALEM, NH
 (Formerly published as Spicket River, at Island Pond Road, at North Salem)

LOCATION (REVISED).--Lat 42°50'57", long 71°12'56", Rockingham County, Hydrologic Unit 01070002, on right bank, 70 ft downstream from Haverhill Road bridge, 100 ft southeast of North Main Street (old State Highway 111), Haverhill Road, and Island Pond Road intersection in Cowbell Corners, 1.0 mi north of Mill Pond Road and North Main Road intersection in North Salem, 2.4 mi southwest of Hampstead, and 4.8 mi north of Salem Town Hall.

DRAINAGE AREA.--16.5 mi².

PERIOD OF RECORD.--Discharge records: October 2000 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 190 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges and those below 1.5 ft³/s, which are fair. Flows regulated by Island Pond 0.7 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 178 ft³/s, October 18, gage-height, 5.03 ft; minimum daily discharge, 0.44 ft³/s, October 11 and April 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.74	13	2.8	3.1	8.9	1.1	3.5	26	20	7.3	1.5	1.1
2	0.74	11	2.7	2.9	9.4	1.2	1.8	66	23	6.5	1.6	0.73
3	0.88	9.7	2.5	2.9	e9.1	2.6	1.3	53	31	6.2	1.6	0.89
4	0.72	8.5	2.3	2.8	9.1	1.6	1.7	27	26	5.3	1.5	0.84
5	0.68	7.8	2.4	2.7	e8.9	1.2	1.4	27	21	4.3	1.2	0.78
6	0.76	7.1	2.2	2.7	8.5	0.98	1.1	25	25	2.9	1.2	0.63
7	0.72	5.7	2.1	3.2	8.3	0.74	1.4	23	58	2.3	1.4	0.65
8	0.57	4.7	1.9	3.3	8.1	0.77	0.61	21	58	1.9	1.3	0.60
9	0.56	4.4	2.4	3.1	7.9	1.0	0.75	18	52	1.7	1.3	0.61
10	0.48	3.9	2.6	3.2	7.5	2.3	0.60	18	47	1.6	1.4	0.57
11	0.44	3.6	2.6	3.2	9.1	1.1	0.57	16	41	1.4	1.3	0.73
12	0.49	3.1	2.6	3.1	e8.2	0.89	1.2	15	43	1.1	1.3	0.72
13	4.6	2.7	2.6	4.5	8.1	0.78	0.50	44	44	1.0	1.6	0.70
14	24	2.6	2.8	4.5	e7.6	0.63	0.44	115	41	1.1	1.6	0.82
15	118	2.4	3.6	4.6	7.2	0.49	0.91	125	45	1.1	1.5	1.1
16	114	2.3	3.1	4.6	7.3	1.2	0.84	121	49	1.2	0.84	1.5
17	119	2.0	3.1	4.5	7.7	0.69	0.60	114	50	1.6	0.75	0.81
18	168	1.9	4.6	4.5	7.9	0.64	0.51	60	48	1.4	0.69	0.84
19	149	2.0	4.0	4.4	7.6	0.73	0.53	91	42	2.2	0.79	1.0
20	129	2.2	3.9	e4.4	7.6	0.83	0.55	86	38	0.79	1.00	0.98
21	112	2.3	3.9	4.4	6.7	1.3	0.88	50	18	1.2	1.0	1.0
22	95	1.7	3.6	4.4	1.7	1.7	0.66	21	5.3	1.3	0.96	0.99
23	78	2.0	3.5	4.5	1.1	0.77	0.98	20	7.5	1.6	1.1	1.4
24	64	2.9	4.7	5.2	1.0	0.60	0.61	11	9.2	1.6	1.1	0.71
25	51	2.8	4.3	5.6	1.1	0.69	0.97	12	9.1	1.5	1.2	0.83
26	40	2.9	3.9	5.6	1.2	0.89	2.5	12	8.9	1.4	1.0	0.82
27	32	2.7	3.9	5.6	1.5	4.8	1.3	10	8.6	1.3	0.98	1.3
28	27	2.6	3.7	5.8	1.4	1.8	2.2	11	9.6	1.5	0.93	1.2
29	21	2.8	3.6	5.8	---	1.3	6.6	14	9.7	1.5	1.4	0.74
30	17	2.8	3.4	7.2	---	1.9	19	15	8.8	1.4	1.2	0.75
31	14	---	3.2	7.3	---	0.79	---	16	---	1.4	0.89	---
TOTAL	1384.38	126.1	98.5	133.6	179.7	38.01	56.51	1283	896.7	68.59	37.13	26.34
MEAN	44.7	4.20	3.18	4.31	6.42	1.23	1.88	41.4	29.9	2.21	1.20	0.88
MAX	168	13	4.7	7.3	9.4	4.8	19	125	58	7.3	1.6	1.5
MIN	0.44	1.7	1.9	2.7	1.0	0.49	0.44	10	5.3	0.79	0.69	0.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEAR 2001 - 2002, BY WATER YEAR (WY)

	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002
MEAN	44.7	12.6	16.5	9.85	12.0	31.7	36.4	21.2	15.4	1.50	1.34	0.90
MAX	44.7	21.0	29.8	15.4	17.6	62.3	70.8	41.4	29.9	2.21	1.48	0.92
(WY)	2002	2001	2001	2001	2001	2001	2001	2002	2002	2002	2001	2001
MIN	44.7	4.20	3.18	4.31	6.42	1.23	1.88	1.02	0.88	0.79	1.20	0.88
(WY)	2002	2002	2002	2002	2002	2002	2002	2001	2001	2001	2002	2002

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 2001 - 2002	
ANNUAL TOTAL	6789.35		4328.56			
ANNUAL MEAN	18.6		11.9		11.9	
HIGHEST ANNUAL MEAN					11.9	
LOWEST ANNUAL MEAN					11.9	
HIGHEST DAILY MEAN	168	Oct 18	168	Oct 18	209	Oct 17 2000
LOWEST DAILY MEAN	0.25	Jun 10	a 0.44	Oct 11	0.25	Jun 10 2001
ANNUAL SEVEN-DAY MINIMUM	0.47	May 20	0.57	Oct 6	0.47	May 20 2001
MAXIMUM PEAK FLOW			178	Oct 18	235	Oct 16 2000
MAXIMUM PEAK STAGE			5.03	Oct 18	5.46	Oct 16 2000
10 PERCENT EXCEEDS	57		39		39	
50 PERCENT EXCEEDS	2.3		2.6		2.6	
90 PERCENT EXCEEDS	0.64		0.73		0.73	

a Also occurred on April 14.
 e Estimated.