

SURFACE-WATER-DISCHARGE AND SURFACE-WATER-QUALITY RECORDS

Remark Codes

The following remark codes may appear with the water-quality data in this section:

PRINT OUTPUT	REMARK
E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
V	Analyte was detected in both the environmental sample and the associated blanks.
&	Biological organism estimated as dominant.

Dissolved Trace-Element Concentrations

***NOTE.**--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the $\mu\text{g/L}$ level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994.

Change in National Trends Network Procedures

***NOTE.**--Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on a special intercomparison study, is available from the NADP/NTN Coordination Office, Colorado State University, Fort Collins, CO 80523 (Telephone: 303-491-5643).

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 sea level. 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, Azischohos, 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, 9,000 ft³/s, April 25, gage height, 6.99 ft; minimum daily discharge, 815 ft³/s, April 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUE

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1380	1280	1160	1140	1500	1800	1310	4340	1310	1530	1650	1310
2	1380	1280	1240	1210	1500	1800	1310	4400	1460	1470	1450	1310
3	1370	1280	1260	1250	1500	1800	1310	4520	1760	1470	1460	1310
4	1380	1310	1260	1250	1500	1800	1310	4590	2270	1470	1460	1300
5	1380	1340	1330	1280	1500	1800	1310	4590	2580	1470	1460	1310
6	1260	1150	1240	1300	1500	1800	1310	4520	2690	1470	1460	1310
7	1180	977	1170	1300	1500	1800	1310	3170	1860	1480	1460	1310
8	1250	1030	1210	1300	1500	1930	1310	1920	1240	1470	1460	1310
9	1280	1140	1230	1300	1500	2000	1310	1510	1210	1470	1460	1310
10	1280	1080	1230	1300	1500	2000	1310	1150	1270	1470	1460	1310
11	1280	976	1190	1320	1500	2000	1310	1390	1270	1400	1460	1310
12	1280	938	1140	1350	1500	2000	1310	1090	1270	1360	1460	1310
13	1280	956	1130	1350	1500	2000	1150	1050	1270	1420	1460	1310
14	1280	1040	1130	1350	1510	2000	934	1050	1270	1460	1460	1310
15	1280	986	1100	1440	1510	2000	815	1120	1310	1460	1450	1310
16	1340	947	1100	1500	1690	2100	816	1290	1350	1460	1450	1310
17	1380	947	1130	1310	1810	2160	825	1290	1340	1460	1450	1310
18	1380	1010	2310	1350	1810	2160	830	1260	1340	1410	1450	1310
19	1380	1050	1530	1500	1810	2160	830	1260	1400	1390	1450	1310
20	1320	1170	1140	1500	1810	2160	1080	1260	1440	1460	1450	1310
21	1280	1250	1330	1500	1810	2160	1240	1260	1440	1460	1460	1310
22	1330	1250	1380	1500	1810	2020	1760	1250	1440	1460	1360	1310
23	1390	1250	1410	1500	1810	1930	3410	1180	1440	1460	1310	1310
24	1380	1320	1440	1500	1800	1920	6020	1240	1440	1460	1310	1310
25	1380	1360	1440	1500	1800	1970	8040	1240	1440	1400	1310	1310
26	1380	1360	1420	1500	1810	1940	8540	1290	1440	1360	1310	1310
27	1380	1360	1380	1500	1810	1530	7160	1330	1440	1380	1310	1310
28	1380	1300	1290	1500	1800	1200	5790	1290	1440	1420	1310	1310
29	1380	1200	1180	1500	---	1270	5250	1060	1510	1460	1310	1310
30	1380	1160	1140	1500	---	1310	4720	1180	1540	1460	1310	1310
31	1320	---	1140	1500	---	1310	---	1280	---	1510	1310	---
TOTAL	41320	34697	39780	43100	45900	57830	74930	60370	45480	44880	43930	39290
MEAN	1333	1157	1283	1390	1639	1865	2498	1947	1516	1448	1417	1310
MAX	1390	1360	2310	1500	1810	2160	8540	4590	2690	1530	1650	1310
MIN	1180	938	1100	1140	1500	1200	815	1050	1210	1360	1310	1300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 2001, BY WATER YEAR (WY)

MEAN	1587	1548	1701	1791	1858	1861	2161	3098	2256	1779	1682	1686
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 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1905 - 2001
ANNUAL TOTAL	834837	571507	
ANNUAL MEAN	2281	1566	1916
HIGHEST ANNUAL MEAN			3117
LOWEST ANNUAL MEAN			1046
HIGHEST DAILY MEAN	15000	May 12	16100
LOWEST DAILY MEAN	938	Nov 12	a .00
ANNUAL SEVEN-DAY MINIMUM	970	Nov 11	152
MAXIMUM PEAK FLOW			9000
MAXIMUM PEAK STAGE			6.99
10 PERCENT EXCEEDS	3950	1930	Apr 25
50 PERCENT EXCEEDS	1480	1360	16500
90 PERCENT EXCEEDS	1230	1150	9.40

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 sea level. Prior to September 30, 1922, nonrecording gage showing head and tailwater elevations at site 3 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Azischohos, 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, 17,400 ft³/s, April 25, gage height, 9.47 ft; minimum daily discharge, 1,300 ft³/s, December 16.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1540	1630	1550	1490	1710	2010	1550	6940	1710	1680	1690	1450
2	1540	1570	1550	1450	1710	2010	1530	8020	1880	1620	1640	1440
3	1570	1560	1550	1530	1710	2010	1530	8110	3170	1570	1520	1410
4	1510	1560	1480	1550	1690	1980	1540	7750	3670	1590	1560	1400
5	1540	1790	1520	1530	1710	1990	1590	6860	3600	1590	1530	1370
6	1770	1990	1590	1610	1720	2010	1640	6000	3630	1540	1550	1360
7	1870	1650	1390	1620	1720	2000	1680	5210	2960	1560	1530	1350
8	1630	1460	1310	1590	1710	2030	1710	3490	1980	1560	1540	1370
9	1670	1510	1360	1600	1720	2190	1740	2530	1470	1660	1520	1380
10	1630	1560	1420	1560	1730	2220	1840	2080	1530	1630	1530	1370
11	1550	2150	1490	1540	1860	2220	2070	1660	1540	1770	1550	1380
12	1560	2110	1450	1590	1800	2230	2390	1820	1630	1800	1500	1380
13	1540	1650	1380	1560	1890	2240	2710	1980	1590	1660	1520	1360
14	1520	1550	1390	1620	1780	2230	2840	1770	1540	1690	1520	1360
15	1520	2080	1360	1620	1790	2230	2660	1600	1490	1700	1510	1330
16	1510	2020	1300	1750	1800	2270	2560	1670	1500	1720	1510	1370
17	1570	1640	1810	1720	2040	2430	2650	1780	1610	1720	1540	1380
18	1650	1540	5570	1430	2000	2480	2710	1690	1680	1720	1520	1370
19	1780	1520	4470	1700	2060	2430	2480	1940	1560	1570	1570	1370
20	1750	1490	2490	1750	2060	2370	2270	2110	1620	1550	1490	1380
21	1570	1580	2020	1730	2030	2420	2950	1840	1580	1620	1580	1420
22	1520	1620	2070	1710	1990	2450	5250	1710	1580	1580	1530	1410
23	1600	1580	1940	1710	2060	2260	9650	1570	1580	1540	1390	1410
24	1610	1510	1820	1710	2020	2210	12700	1540	1560	1610	1360	1390
25	1610	1610	1890	1720	2020	2230	16400	1530	1630	1690	1350	1430
26	1600	1640	1750	1710	2000	2230	13800	1510	1540	1550	1360	1590
27	1600	1760	1760	1710	2040	2030	11900	1590	1550	1450	1370	1520
28	1600	1830	1690	1700	2010	1450	9830	1710	1540	1500	1370	1440
29	1580	1710	1610	1690	---	1430	7930	1740	1510	1550	1400	1420
30	1600	1570	1490	1710	---	1550	7300	1660	1630	1550	1390	1380
31	1660	---	1490	1720	---	1570	---	1600	---	1580	1360	---
TOTAL	49770	50440	56960	50630	52380	65410	139400	93010	57060	50120	46300	41990
MEAN	1605	1681	1837	1633	1871	2110	4647	3000	1902	1617	1494	1400
MAX	1870	2150	5570	1750	2060	2480	16400	8110	3670	1800	1690	1590
MIN	1510	1460	1300	1430	1690	1430	1530	1510	1470	1450	1350	1330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2001, BY WATER YEAR (WY)

MEAN	2052	2103	2143	2150	2169	2508	3951	4277	2783	2084	1929	1977
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	1413	1257	1276	1299	1376	1755	1746	1545	1524	1462	1330
(WY)	1942	1922	1953	1953	1922	1922	1965	1941	1915	1980	1995	1995

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1914 - 2001
ANNUAL TOTAL	1055380	753470	
ANNUAL MEAN	2884	2064	2515
HIGHEST ANNUAL MEAN			4147
LOWEST ANNUAL MEAN			1689
HIGHEST DAILY MEAN	16200	May 12	20000
LOWEST DAILY MEAN	1300	Dec 16	795
ANNUAL SEVEN-DAY MINIMUM	1400	Dec 10	866
MAXIMUM PEAK FLOW		17400	21900
MAXIMUM PEAK STAGE		9.47	21900
10 PERCENT EXCEEDS	5210	Apr 25	3730
50 PERCENT EXCEEDS	1870		2010
90 PERCENT EXCEEDS	1510		1600

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 sea level, 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)
Dec. 17	2045	* 1,480	* 5.32	Sept. 25	1515	1,110	4.69

Minimum discharge, 5.3 ft³/s, September 9, 10, and 16-20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e9.4	14	14	e14	8.8	7.8	7.0	194	27	12	8.3	8.8
2	e9.4	e16	e14	13	8.7	7.7	7.1	219	124	11	8.1	6.9
3	e9.1	18	e15	13	8.6	7.7	7.0	291	186	11	8.0	6.4
4	e9.1	21	e14	12	8.6	7.6	7.3	271	94	11	8.7	6.7
5	e10	37	e13	12	8.6	7.5	8.7	136	112	11	9.1	6.4
6	e21	25	e12	11	9.8	7.9	8.9	67	68	10	8.0	6.0
7	e14	22	e12	11	8.9	7.7	9.3	55	49	9.8	7.9	5.9
8	e13	24	e12	11	8.8	7.4	9.6	57	39	10	7.9	5.7
9	12	23	e11	11	8.9	7.5	11	65	33	9.8	8.8	5.6
10	12	37	e11	11	20	7.5	19	77	29	9.6	8.6	6.3
11	12	89	e12	11	e12	7.4	19	76	29	9.6	8.3	7.2
12	12	41	13	11	e9.9	7.3	31	93	35	10	8.2	5.9
13	12	27	e11	10	9.7	7.4	65	76	28	12	8.2	5.7
14	12	33	11	11	9.3	7.4	46	43	25	12	e7.8	5.7
15	12	52	9.8	10	9.2	7.4	30	36	23	13	e7.8	5.7
16	12	28	9.6	11	8.9	7.3	29	34	22	11	e7.3	5.6
17	12	23	e440	10	8.9	7.5	31	32	24	11	e7.6	5.5
18	20	20	242	10	8.6	7.5	28	31	21	11	e7.6	5.5
19	21	18	e58	10	8.5	7.4	22	38	19	10	e7.0	5.5
20	15	17	42	10	8.5	7.8	25	35	18	9.7	e7.2	7.5
21	13	16	e36	9.9	e8.5	8.1	43	33	17	9.5	e8.8	29
22	12	15	e33	9.8	e8.4	8.1	286	31	16	9.1	e8.5	11
23	12	e14	e30	9.7	8.2	7.8	242	29	18	8.7	e7.3	8.7
24	12	e14	e26	9.6	8.1	7.6	453	29	20	8.7	6.2	7.9
25	11	e19	e24	9.5	8.2	7.4	164	28	16	8.8	5.9	212
26	11	24	e22	9.2	8.2	7.3	71	26	15	9.1	5.9	59
27	11	26	e20	9.2	8.0	7.3	68	33	15	8.5	6.2	25
28	10	18	e18	9.0	8.0	7.3	66	48	14	8.1	6.1	25
29	10	16	e17	8.9	---	7.2	50	49	13	8.1	6.6	20
30	11	15	e16	8.9	---	7.4	58	33	12	8.5	6.0	16
31	14	---	e15	9.0	---	7.3	---	27	---	8.4	6.0	---
TOTAL	386.0	762	1233.4	325.7	258.8	233.5	1921.9	2292	1161	310.0	233.9	538.1
MEAN	12.5	25.4	39.8	10.5	9.24	7.53	64.1	73.9	38.7	10.0	7.55	17.9
MAX	21	89	440	14	20	8.1	453	291	186	13	9.1	212
MIN	9.1	14	9.6	8.9	8.0	7.2	7.0	26	12	8.1	5.9	5.5
CFSM	1.14	2.33	3.65	.96	.85	.69	5.88	6.78	3.55	.92	.69	1.65
IN.	1.32	2.60	4.21	1.11	.88	.80	6.56	7.82	3.96	1.06	.80	1.84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

	30.3	36.5	25.3	18.0	15.5	27.2	69.2	84.7	42.4	23.1	19.3	19.5
MEAN	30.3	36.5	25.3	18.0	15.5	27.2	69.2	84.7	42.4	23.1	19.3	19.5
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 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1964 - 2001

ANNUAL TOTAL	11744.0	9656.3	
ANNUAL MEAN	32.1	26.5	34.5
HIGHEST ANNUAL MEAN			53.0
LOWEST ANNUAL MEAN			21.6
HIGHEST DAILY MEAN	620	Apr 9	453
LOWEST DAILY MEAN	7.9	Sep 14	a 5.5
ANNUAL SEVEN-DAY MINIMUM	8.3	Sep 8	5.6
MAXIMUM PEAK FLOW			c 1480
MAXIMUM PEAK STAGE			5.32
INSTANTANEOUS LOW FLOW			f 5.3
ANNUAL RUNOFF (CFSM)	2.94	2.43	3.16
ANNUAL RUNOFF (INCHES)	40.08	32.96	42.96
10 PERCENT EXCEEDS	55	49	70
50 PERCENT EXCEEDS	17	11	18
90 PERCENT EXCEEDS	9.9	7.3	8.3

- a Also occurred on September 18, 19.
- b Also occurred on March 3, 4, 1980.
- c From rating curve extended above 390 ft³/s on basis of slope-area measurements at gage height 10.34 ft.
- d Gage height 10.34 ft from recorder, affected by drawdown; 18.9 ft from floodmarks, site and datum then in use.
- e Estimated.
- f Also occurred on September 10, 16-20.
- g Minimum not determined, occurred during ice effect in March 1980.

SACO RIVER BASIN

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 sea level. 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)
Dec. 18	0545	* 20,300	* 10.93	Apr. 25	0100	14,000	9.45

Minimum discharge, 79 ft³/s, September 17-20, gage height, 1.84 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	265	e495	e529	e305	e257	e279	3290	627	265	143	115
2	160	283	e428	e512	e283	e257	e271	4870	1310	289	137	127
3	158	281	e395	e496	e280	e254	e261	5380	4410	264	127	117
4	154	266	e388	e485	e254	e241	e261	5330	3160	243	123	106
5	154	342	e372	e469	e290	e252	e291	4080	2050	384	257	104
6	278	534	e341	e454	e284	e266	e323	2590	1560	323	192	106
7	441	384	e269	e437	e322	e282	e382	1990	1240	260	155	98
8	298	362	e209	e418	e308	e269	e464	1790	1010	251	136	93
9	257	382	e207	e405	e298	e278	e523	1730	856	265	125	91
10	233	413	e223	e391	e332	e274	e862	1740	759	267	121	87
11	213	1590	e293	e376	e328	e268	e1230	1690	690	277	114	88
12	199	1290	e380	e378	e324	e254	e1350	1620	741	272	112	90
13	194	856	e380	e360	e385	e265	2860	1800	701	251	110	90
14	198	716	e350	e377	e321	e282	2930	1290	603	235	107	85
15	199	1490	e325	e356	e300	e274	2220	1080	532	223	104	83
16	192	1100	e316	e349	e283	e274	2180	992	477	226	100	82
17	202	833	2340	e346	e277	e264	2230	951	449	219	98	81
18	234	696	12200	e318	e249	e255	2160	889	541	242	102	79
19	659	592	3150	e323	e291	e253	1810	863	439	218	104	79
20	481	529	e2060	e319	e288	e259	1760	851	387	198	102	80
21	351	494	e1560	e302	e271	e284	2170	777	354	183	111	182
22	294	461	e1320	e292	e233	e311	4780	729	336	173	134	362
23	264	415	e1130	e281	e309	e335	8380	695	337	165	125	216
24	247	e341	e964	e313	e277	e335	9550	649	430	158	111	165
25	236	e328	e824	e310	e262	e325	9120	597	402	149	102	611
26	228	e358	e720	e286	e286	e300	4690	547	336	158	97	2170
27	221	585	e660	e314	e275	e291	3920	561	300	165	95	671
28	209	724	e619	e298	e269	e281	3610	763	273	153	96	409
29	198	596	e586	e267	---	e274	2890	1090	249	145	98	416
30	199	538	e567	e291	---	e282	2570	812	244	140	94	310
31	226	---	e546	e315	---	e284	---	661	---	138	91	---
TOTAL	7742	18044	34617	11367	8184	8580	76327	52697	25803	6899	3723	7393
MEAN	250	601	1117	367	292	277	2544	1700	860	223	120	246
MAX	659	1590	12200	529	385	335	9550	5380	4410	384	257	2170
MIN	154	265	207	267	233	241	261	547	244	138	91	79
CFSM	.65	1.56	2.90	.95	.76	.72	6.61	4.42	2.23	.58	.31	.64
IN.	.75	1.74	3.34	1.10	.79	.83	7.37	5.09	2.49	.67	.36	.71

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2001, BY WATER YEAR (WY)

MEAN	645	956	765	574	510	969	2626	2230	845	440	355	391
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1904 - 2001	
ANNUAL TOTAL	338061		261376			
ANNUAL MEAN	924		716		943	
HIGHEST ANNUAL MEAN					1463	1973
LOWEST ANNUAL MEAN					489	1965
HIGHEST DAILY MEAN	12200	Dec 18	12200	Dec 18	33900	Mar 19 1936
LOWEST DAILY MEAN	141	Sep 11	79	Sep 18	66	Aug 4 1959
ANNUAL SEVEN-DAY MINIMUM	147	Sep 8	81	Sep 14	74	Aug 3 1959
MAXIMUM PEAK FLOW			20300	Dec 18	47200	Mar 27 1953
MAXIMUM PEAK STAGE			10.93	Dec 18	a 19.03	Mar 7 1979
INSTANTANEOUS LOW FLOW			79	Sep 17	40	Mar 16 1932
ANNUAL RUNOFF (CFSM)	2.40		1.86		2.45	
ANNUAL RUNOFF (INCHES)	32.66		25.26		33.27	
10 PERCENT EXCEEDS	2110		1730		2190	
50 PERCENT EXCEEDS	412		308		460	
90 PERCENT EXCEEDS	202		115		184	

a Ice Jam.
e Estimated.

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 sea level, 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 (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 18	0045	* 3,720	* 8.12	Apr. 22	1900	1,630	6.73

Minimum discharge, 4.9 ft³/s, September 19, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	32	83	e69	36	31	69	281	55	27	10	10
2	11	28	e74	e66	35	30	64	340	412	60	9.7	12
3	11	25	e65	e64	34	30	62	324	1090	34	8.8	8.7
4	11	24	e62	e60	31	29	66	286	690	26	8.3	e11
5	10	39	e60	e57	32	29	97	223	354	37	7.7	e12
6	28	63	e58	e57	43	31	132	155	212	31	7.4	9.1
7	37	46	e53	e53	42	35	147	121	142	23	7.0	7.8
8	24	38	e47	e51	36	32	181	105	105	22	6.7	7.1
9	19	33	e44	e51	36	32	198	98	81	23	6.5	6.5
10	17	63	e47	e48	50	34	353	94	66	21	6.8	6.2
11	16	325	55	e46	e65	32	454	87	58	22	8.7	6.4
12	33	209	e67	e45	e61	31	e700	88	61	25	7.2	6.2
13	29	138	e68	e43	e53	32	e1050	111	57	23	6.6	5.9
14	24	121	e64	e46	48	34	1010	80	48	20	6.3	5.7
15	17	367	e60	e44	e46	33	743	66	42	18	5.9	5.5
16	15	224	e61	e43	44	38	682	61	35	16	5.6	5.3
17	18	154	e860	e42	43	41	626	59	31	21	5.5	5.2
18	37	118	e1850	41	39	46	553	56	31	27	5.8	5.1
19	126	94	e540	40	38	50	453	56	26	21	6.0	5.0
20	68	78	e330	39	38	61	426	53	23	17	5.8	5.1
21	45	71	e230	38	38	102	512	48	20	15	6.9	6.4
22	34	64	e180	37	34	140	1090	44	19	14	7.6	6.8
23	28	e58	e150	34	36	685	1260	44	20	13	6.7	30
24	25	e45	e120	36	34	297	1270	40	35	12	5.8	19
25	24	e50	e100	35	33	194	874	36	32	11	5.3	305
26	22	e56	e86	33	36	142	483	32	25	14	5.0	285
27	21	e95	e99	32	35	111	381	40	21	15	5.0	82
28	20	123	e95	32	33	88	333	66	18	12	5.1	47
29	19	110	e83	30	---	72	262	134	16	11	6.1	34
30	18	96	e76	30	---	65	228	86	15	10	6.2	26
31	25	---	e72	35	---	82	---	65	---	10	5.9	---
TOTAL	843	2987	5839	1377	1129	2689	14759	3379	3840	651	207.9	1105.8
MEAN	27.2	99.6	188	44.4	40.3	86.7	492	109	128	21.0	6.71	36.9
MAX	126	367	1850	69	65	685	1270	340	1090	60	10	305
MIN	10	24	44	30	31	29	62	32	15	10	5.0	5.0
CFSM	.40	1.47	2.79	.66	.60	1.28	7.28	1.61	1.89	.31	.10	.55
IN.	.46	1.64	3.21	.76	.62	1.48	8.12	1.86	2.11	.36	.11	.61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2001, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	115	167	158	133	119	242	446	189	151
MAX	258	302	410	331	242	436	632	398	811
(WY)	1996	1996	1997	1996	1997	1998	1993	1996	1996
MIN	27.2	66.2	60.3	44.4	40.3	86.7	129	77.4	34.7
(WY)	2001	1995	1998	2001	2001	2001	1995	1993	1999

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1993 - 2001

ANNUAL TOTAL	50331.3	38806.7	
ANNUAL MEAN	138	106	158
HIGHEST ANNUAL MEAN			217
LOWEST ANNUAL MEAN			94.6
HIGHEST DAILY MEAN	e 1850	Dec 18	5370
LOWEST DAILY MEAN	8.8	Sep 11	a 5.0
ANNUAL SEVEN-DAY MINIMUM	9.5	Sep 8	5.3
MAXIMUM PEAK FLOW			3720
MAXIMUM PEAK STAGE			8.12
INSTANTANEOUS LOW FLOW			b 4.9
ANNUAL RUNOFF (CFSM)	2.03		1.57
ANNUAL RUNOFF (INCHES)	27.70		21.36
10 PERCENT EXCEEDS	322		283
50 PERCENT EXCEEDS	59		39
90 PERCENT EXCEEDS	16		7.3
			17

a Also occurred August 27 and September 19.
b Also occurred September 20.
c Also occurred September 8, 1995.
e Estimated.

PISCATAQUA RIVER BASIN

01072100 SALMON FALLS RIVER AT MILTON, NH

LOCATION (REVISED)--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 sea level, from topographic map.

REMARKS--Records good except for the periods of shifting control due to gate openings, December 18-20 and March 22-23, 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, 1,250 ft³/s, April 15, gage height, 4.94 ft; minimum daily discharge 25 ft³/s, August 11, 12 and September 29, 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	134	230	178	91	87	270	247	112	62	35	31
2	46	134	205	175	92	86	268	220	153	55	32	31
3	45	134	183	171	93	86	200	147	402	40	37	30
4	44	132	171	208	89	86	132	165	485	41	41	30
5	44	134	162	225	88	85	135	186	414	41	37	30
6	42	163	157	207	89	86	224	183	280	41	35	30
7	43	187	154	193	90	86	284	124	179	38	32	30
8	49	166	154	210	90	85	312	104	166	37	29	29
9	146	153	152	229	113	85	341	119	149	38	27	29
10	230	157	151	226	129	85	441	115	133	41	26	29
11	227	229	149	226	128	85	581	112	113	49	25	29
12	231	299	122	144	126	84	674	113	171	55	25	29
13	225	291	91	79	126	84	850	116	208	49	30	28
14	219	268	91	80	126	84	1070	115	191	45	35	28
15	217	295	162	82	126	84	1190	113	134	44	34	28
16	216	317	222	83	125	84	1090	113	92	41	33	28
17	236	303	223	84	124	85	1040	110	99	43	33	27
18	244	277	489	84	123	85	978	89	109	50	33	27
19	250	251	753	87	122	85	873	76	104	56	33	27
20	256	230	537	89	121	85	782	77	103	71	33	27
21	255	221	394	90	120	87	745	78	98	69	33	27
22	248	209	365	91	118	314	810	83	87	60	33	27
23	244	188	328	91	101	395	1070	81	82	54	32	27
24	241	170	291	90	87	305	1160	78	84	49	31	26
25	232	154	264	90	87	362	1040	73	103	45	31	26
26	235	155	226	90	88	373	737	69	100	49	31	26
27	237	198	204	90	87	354	554	88	90	49	31	26
28	226	245	192	90	87	319	497	110	80	46	31	26
29	214	264	182	90	---	292	440	129	69	42	31	25
30	174	258	179	90	---	283	292	138	63	40	31	25
31	132	---	186	91	---	275	---	129	---	38	31	---
TOTAL	5494	6316	7369	4053	2986	5061	19080	3700	4653	1478	991	838
MEAN	177	211	238	131	107	163	636	119	155	47.7	32.0	27.9
MAX	256	317	753	229	129	395	1190	247	485	71	41	31
MIN	42	132	91	79	87	84	132	69	63	37	25	25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2001, BY WATER YEAR (WY)

MEAN	181	198	225	178	189	318	437	221	134	67.7	60.7	76.0
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	77.9	40.5	59.7	60.8	108	103	55.4	35.5	26.1	24.2	22.3
(WY)	1969	1987	1979	1977	1977	1993	1985	1985	1999	1991	1999	1993

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1969 - 2001

ANNUAL TOTAL	68950		62019			
ANNUAL MEAN	188		170		190	
HIGHEST ANNUAL MEAN					307 1984	
LOWEST ANNUAL MEAN					98.6 1985	
HIGHEST DAILY MEAN	922	Apr 24	1190	Apr 15	3220	Mar 15 1977
LOWEST DAILY MEAN	29	Sep 14	a 25	Aug 11	16	Sep 11 1999
ANNUAL SEVEN-DAY MINIMUM	30	Sep 14	26	Sep 24	17	Sep 8 1999
MAXIMUM PEAK FLOW			1250	Apr 15	4000	Apr 6 1984
MAXIMUM PEAK STAGE			4.94	Apr 15	6.70	Apr 6 1984
10 PERCENT EXCEEDS	356		315		402	
50 PERCENT EXCEEDS	154		110		134	
90 PERCENT EXCEEDS	41		31		37	

a Also occurred August 12 and September 29, 30.

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 sea level, from topographic map.

REMARKS.--Records good except those for the periods of December 8-10 and 13-16, which are fair, and those for December 21 to March 21, which are poor. 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 Cocheco 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)
Dec. 18	1900	* 1,460	* 9.29	Apr. 13	1315	1,180	8.25
Mar. 23	1315	862	7.01				

Minimum daily discharge, 3.5 ft³/s, September 13, 14, and 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	37	106	e100	e69	e66	291	138	46	31	14	18
2	14	38	92	e93	e73	e60	257	123	129	37	12	12
3	13	34	73	e89	e72	e56	248	109	329	38	14	12
4	11	31	70	e85	e64	e52	274	98	293	33	26	11
5	11	37	64	e81	e61	e50	347	95	182	31	23	10
6	32	58	62	e83	e65	e53	429	91	125	29	19	7.9
7	53	61	54	e83	e70	e63	420	82	91	26	15	6.9
8	42	51	e48	e83	e65	e68	467	75	72	24	12	5.7
9	33	46	e42	e79	e64	e66	486	74	58	25	11	5.0
10	30	60	e40	e72	e79	e63	727	68	49	30	9.7	5.2
11	41	216	43	e70	e87	e61	831	64	49	50	9.4	5.1
12	44	279	52	e68	e83	e65	753	60	132	39	11	4.1
13	39	175	e49	e62	e77	e62	1080	58	132	32	12	3.5
14	35	129	e50	e62	e72	e75	1050	55	94	29	10	3.5
15	35	210	e49	e60	e71	e97	873	51	71	27	9.0	3.8
16	34	259	e50	e60	e72	e110	758	52	57	24	8.0	3.8
17	35	183	176	e60	e70	e110	675	51	65	25	8.3	4.3
18	38	144	1020	e59	e78	e115	603	50	98	48	8.6	4.3
19	81	123	736	e59	e71	e125	526	48	75	42	8.6	3.9
20	95	109	413	e58	e64	e140	460	46	60	35	9.7	3.5
21	85	98	e320	e55	e62	e160	431	44	52	30	11	12
22	76	90	e220	e55	e57	471	443	42	45	26	13	12
23	68	86	e175	e54	e55	838	491	40	49	22	8.9	7.6
24	67	76	e140	e54	e55	801	451	38	61	19	7.3	6.6
25	64	e66	e120	e53	e51	675	363	37	80	16	6.0	8.6
26	60	87	e105	e52	e69	513	289	35	76	21	5.9	13
27	48	203	e115	e50	e78	417	227	55	59	25	6.4	11
28	38	223	e110	e50	e73	352	197	76	45	23	6.4	15
29	30	154	e100	e46	---	311	174	81	37	20	8.7	16
30	27	121	e95	e47	---	299	154	70	33	18	5.4	12
31	31	---	e97	e60	---	292	---	54	---	15	4.8	---
TOTAL	1325	3484	4886	2042	1927	6686	14775	2060	2744	890	334.1	247.3
MEAN	42.7	116	158	65.9	68.8	216	492	66.5	91.5	28.7	10.8	8.24
MAX	95	279	1020	100	87	838	1080	138	329	50	26	18
MIN	11	31	40	46	51	50	154	35	33	15	4.8	3.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2001, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	2000	2001
MEAN	104	147	149	163	178	297	317
MAX	286	329	409	359	295	415	508
(WY)	1997	1996	1997	1996	1996	1998	1997
MIN	20.3	50.0	50.7	65.9	68.8	216	127
(WY)	1998	1999	1999	2001	2001	2001	1999

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1995 - 2001

ANNUAL TOTAL	49034	41400.4	
ANNUAL MEAN	134	113	151
HIGHEST ANNUAL MEAN			197
LOWEST ANNUAL MEAN			104
HIGHEST DAILY MEAN	1180	1080	2940
LOWEST DAILY MEAN	11	a 3.5	2.2
ANNUAL SEVEN-DAY MINIMUM	12	3.9	2.5
MAXIMUM PEAK FLOW		1460	3700
MAXIMUM PEAK STAGE		9.29	15.51
10 PERCENT EXCEEDS	319	292	340
50 PERCENT EXCEEDS	72	60	77
90 PERCENT EXCEEDS	22	10	12

a Also occurred on September 14, 20.
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 sea level, from topographic map. Prior to October 1, 1964, at datum 1.00 ft higher.

REMARKS.--Records good except those for September 29 and those below 1.0 ft³/s, which are fair.

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)
Mar. 22	2245	* 452	* 4.78	No other peak greater than base discharge.			

Minimum discharge, 0.27 ft³/s, August 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	7.3	13	8.6	9.5	11	87	9.4	3.7	2.9	.88	2.6
2	2.1	5.9	11	7.6	9.9	10	73	9.1	28	3.0	.94	1.7
3	2.6	4.3	8.1	7.4	9.5	9.2	70	8.2	38	2.6	.87	.85
4	2.4	3.6	7.0	e7.0	8.3	7.8	76	7.5	24	2.3	1.1	1.4
5	2.4	4.9	6.5	e6.8	8.1	7.4	89	7.6	17	2.4	1.0	1.2
6	9.0	7.2	8.8	7.7	9.4	9.6	93	8.3	12	2.1	.95	.86
7	8.9	6.6	9.2	8.0	9.4	13	90	7.8	9.5	1.7	.82	.64
8	6.4	5.4	7.9	7.5	8.5	12	89	8.6	8.0	1.7	.78	.56
9	5.5	4.2	6.7	7.9	9.5	11	96	10	6.7	1.6	.50	.49
10	5.5	11	5.9	7.9	13	9.5	117	9.0	5.4	2.9	.41	.48
11	5.7	39	5.9	7.7	14	9.4	105	8.2	5.1	3.8	.50	.69
12	5.6	23	8.2	7.5	13	9.0	106	7.4	16	2.9	.83	.65
13	5.6	14	7.4	7.4	12	9.7	122	7.3	10	2.4	.77	.64
14	5.7	13	6.1	7.2	11	12	97	6.0	6.9	2.2	.69	.80
15	5.3	33	5.4	7.1	12	14	76	4.4	5.6	2.0	.64	.71
16	5.9	21	5.1	7.3	11	16	63	4.6	6.0	1.6	.54	.72
17	7.3	15	41	7.4	11	18	52	5.7	8.4	2.2	.47	.82
18	9.5	12	97	7.2	10	21	45	6.8	15	3.7	.49	.92
19	13	10	51	7.1	11	30	38	6.2	7.9	2.6	.52	.98
20	7.0	8.9	36	7.4	9.5	46	33	5.1	6.1	1.8	.53	1.2
21	4.9	7.9	24	7.2	9.4	47	31	3.9	10	1.4	.57	2.8
22	3.7	7.2	19	7.1	8.8	214	29	3.6	8.4	1.1	.60	1.8
23	2.6	11	15	7.2	8.7	345	26	3.3	8.0	1.0	.56	1.1
24	2.3	14	12	7.9	7.8	263	23	3.3	8.6	.98	.46	.65
25	3.0	12	10	6.9	7.6	210	20	2.9	9.6	.78	.38	.89
26	2.8	18	8.8	6.3	14	152	18	3.6	7.8	2.0	.28	1.5
27	2.2	41	11	6.4	15	111	16	7.0	5.6	1.9	.34	.97
28	3.4	24	10	6.1	13	87	14	9.0	4.1	1.5	.52	1.3
29	4.3	19	e9.0	5.3	---	76	11	7.6	3.3	.96	1.1	e1.2
30	5.7	20	8.6	6.3	---	76	10	5.7	3.1	.93	.58	e.91
31	7.3	---	9.7	9.2	---	111	---	4.6	---	.91	.49	---
TOTAL	159.8	423.4	484.3	225.6	293.9	1977.6	1815	201.7	307.8	61.86	20.11	32.03
MEAN	5.15	14.1	15.6	7.28	10.5	63.8	60.5	6.51	10.3	2.00	.65	1.07
MAX	13	41	97	9.2	15	345	122	10	38	3.8	1.1	2.8
MIN	2.1	3.6	5.1	5.3	7.6	7.4	10	2.9	3.1	.78	.28	.48
CFSM	.43	1.17	1.29	.60	.87	5.27	5.00	.54	.85	.16	.05	.09
IN.	.49	1.30	1.49	.69	.90	6.08	5.58	.62	.95	.19	.06	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2001, BY WATER YEAR (WY)

	7.55	18.1	22.1	19.2	21.9	48.1	48.9	24.5	12.4	5.00	3.42	4.30
MEAN	7.55	18.1	22.1	19.2	21.9	48.1	48.9	24.5	12.4	5.00	3.42	4.30
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	.89	1.58	2.73	2.25	3.47	13.5	13.7	6.51	2.07	.65	.52	.58
(WY)	1942	1979	1966	1981	1980	1967	1999	2001	1936	1949	1999	1995

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1935 - 2001

ANNUAL TOTAL	6736.84	6003.10	
ANNUAL MEAN	18.4	16.4	19.6
HIGHEST ANNUAL MEAN			32.3
LOWEST ANNUAL MEAN			9.09
HIGHEST DAILY MEAN	226	Apr 22	856
LOWEST DAILY MEAN	.83	Sep 11	.01
ANNUAL SEVEN-DAY MINIMUM	.97	Sep 6	.04
MAXIMUM PEAK FLOW		452	1160
MAXIMUM PEAK STAGE		4.78	8.45
INSTANTANEOUS LOW FLOW		.27	a .01
ANNUAL RUNOFF (CFSM)	1.52	1.36	1.62
ANNUAL RUNOFF (INCHES)	20.71	18.46	21.98
10 PERCENT EXCEEDS	46	38	48
50 PERCENT EXCEEDS	8.9	7.4	9.9
90 PERCENT EXCEEDS	2.0	.83	1.2

a Also occurred September 7, 1999.

e Estimated.

PISCATAQUA RIVER BASIN

01073500 LAMPREY RIVER NEAR NEWMARKET, NH

LOCATION (REVISED).--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 sea level.

REMARKS.--Records good except those for October 3, 4, which are fair, and those for October 1, 2, August 5-15, 25-31, and September 1-30, which are poor. Some regulation by Pawtuckaway and Mendums Ponds. These reservoirs have a usable capacity of about 600 million ft³.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,290 ft³/s, March 25, gage height, 9.36 ft; minimum daily discharge, 4.9 ft³/s, October 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUE

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e26	106	284	213	131	143	1160	201	67	55	19	e20
2	e26	122	249	209	142	128	1020	188	113	60	e18	e31
3	e50	108	198	201	146	118	917	160	324	56	e18	e21
4	4.9	94	186	192	141	112	894	125	382	56	e20	e20
5	54	96	192	182	137	108	964	141	339	55	e22	e21
6	72	120	186	173	132	111	1070	133	266	62	e20	e18
7	96	116	169	168	137	114	1120	119	179	52	e19	e13
8	88	137	151	164	137	125	1170	106	131	47	e16	e11
9	92	147	135	163	125	133	1230	97	102	45	e14	e10
10	88	157	124	154	143	129	1470	91	82	75	e11	e9.9
11	98	314	133	146	162	129	1630	86	73	60	e11	e11
12	147	361	137	145	167	131	1740	81	148	55	e13	e11
13	141	349	128	133	164	135	1890	82	168	51	e16	e11
14	130	317	131	131	153	158	1880	73	149	47	e14	e12
15	119	435	134	130	152	204	1680	66	122	43	e13	e12
16	115	415	134	128	155	228	1420	66	99	39	e11	e12
17	e115	401	302	128	161	261	1200	67	90	39	11	e13
18	99	334	827	125	154	287	1030	65	153	44	11	e14
19	114	269	983	122	143	316	858	66	172	43	e11	e14
20	109	233	1050	121	138	362	705	62	171	43	e11	e14
21	125	225	778	120	136	407	581	58	174	41	11	e27
22	132	213	624	115	130	937	518	54	147	36	e11	e32
23	111	187	478	113	122	2100	475	52	137	31	11	e21
24	95	162	395	112	118	2960	444	52	125	27	e11	e14
25	99	132	336	112	115	3140	391	51	140	23	e9.3	e14
26	114	161	220	110	130	2560	333	47	134	26	e8.6	e20
27	105	308	236	109	153	2000	295	64	112	30	e7.8	e21
28	98	329	243	106	157	1600	262	89	90	26	e9.3	e21
29	111	335	230	102	---	1330	238	87	73	23	e14	e22
30	95	312	214	103	---	1140	215	87	61	21	e13	e17
31	95	---	205	123	---	1210	---	80	---	20	e10	---
TOTAL	2963.9	6995	9792	4353	3981	22816	28800	2796	4523	1331	415.0	507.9
MEAN	95.6	233	316	140	142	736	960	90.2	151	42.9	13.4	16.9
MAX	147	435	1050	213	167	3140	1890	201	382	75	22	32
MIN	4.9	94	124	102	115	108	215	47	61	20	7.8	9.9
CFSM	.52	1.27	1.73	.77	.78	4.02	5.25	.49	.82	.23	.07	.09
IN.	.60	1.42	1.99	.88	.81	4.64	5.85	.57	.92	.27	.08	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2001, BY WATER YEAR (WY)

MEAN	129	262	332	287	308	613	693	347	190	93.7	71.1	70.9
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 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1934 - 2001

ANNUAL TOTAL	104971.9	89273.8	
ANNUAL MEAN	287	245	282
HIGHEST ANNUAL MEAN			441
LOWEST ANNUAL MEAN			137
HIGHEST DAILY MEAN	2250	3140	7360
LOWEST DAILY MEAN	4.9	4.9	a .66
ANNUAL SEVEN-DAY MINIMUM	17	9.7	2.0
MAXIMUM PEAK FLOW		3290	7570
MAXIMUM PEAK STAGE		9.36	15.14
ANNUAL RUNOFF (CFSM)	1.57	1.34	1.54
ANNUAL RUNOFF (INCHES)	21.34	18.15	20.97
10 PERCENT EXCEEDS	671	543	654
50 PERCENT EXCEEDS	164	123	169
90 PERCENT EXCEEDS	35	14	23

a During refilling after repairs at Wiswell 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 sea level.

REMARKS.--Records good except those for December 3-16 and March 26, which are fair, and those for December 20 through March 21, which are poor. 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)
Mar. 24	1500	* 1,800	9.99	Apr.13	1215	614	7.21
Mar. 25	1845	Ice Jam	* 10.19				

Minimum daily discharge, 0.99 ft³/s, September 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUE

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	27	89	e72	e54	e55	523	82	38	21	5.9	2.2
2	7.8	25	82	e68	e56	e52	456	84	56	22	5.5	1.7
3	7.5	24	e68	e67	e57	e48	399	79	131	21	4.9	1.6
4	6.9	24	e60	e65	e54	e43	387	68	139	18	5.0	1.6
5	6.6	29	e55	e63	e53	e40	392	62	120	19	5.9	1.4
6	15	37	e47	e61	e54	e47	406	59	103	21	6.8	1.3
7	20	38	e43	e60	e54	e49	411	49	82	19	5.7	1.3
8	18	35	e41	e58	e53	e50	424	36	63	16	4.5	1.3
9	15	32	e37	e58	e55	e50	446	42	49	18	3.9	1.2
10	13	39	e34	e57	e61	e50	520	40	40	46	4.1	1.2
11	12	83	32	e55	e68	e50	564	38	38	48	5.5	1.1
12	12	102	e32	e53	e66	e44	572	36	80	37	5.6	1.1
13	12	91	e34	e52	e65	e49	602	34	77	30	6.4	1.1
14	12	122	40	e49	e62	e72	564	32	60	25	5.9	1.3
15	12	91	e37	e49	e60	e75	501	29	60	21	5.4	1.3
16	13	110	38	e49	e58	e77	425	29	51	18	4.4	1.5
17	16	106	81	e49	e57	e79	357	31	51	17	3.7	1.6
18	21	92	255	e48	e59	e80	301	34	77	19	3.4	.99
19	32	83	360	e47	e55	e84	261	33	75	19	3.0	1.1
20	33	75	e250	e47	e53	e94	246	30	62	16	3.1	1.1
21	30	66	e200	e47	e51	e115	173	26	60	14	3.1	3.0
22	26	60	e160	e46	e49	e560	179	25	57	12	3.2	3.8
23	22	56	e123	e46	e47	1310	165	25	52	10	3.0	2.6
24	22	50	e100	e45	e45	1760	150	26	46	8.9	2.7	2.0
25	21	e47	e88	e44	e46	e1650	136	26	46	7.3	2.4	2.1
26	18	49	e84	e42	e54	e1450	120	25	44	11	2.1	2.6
27	18	83	e79	e41	e58	1090	110	37	36	12	3.4	2.4
28	18	105	e75	e40	e57	803	99	54	30	10	2.4	2.4
29	18	97	e74	e39	---	624	91	56	23	8.5	1.7	2.7
30	18	92	e74	e42	---	547	85	48	20	7.0	1.5	2.8
31	24	---	e74	e48	---	550	---	42	---	6.1	1.5	---
TOTAL	527.6	1970	2846	1607	1561	11647	10065	1317	1866	577.8	125.6	53.39
MEAN	17.0	65.7	91.8	51.8	55.8	376	336	42.5	62.2	18.6	4.05	1.78
MAX	33	122	360	72	68	1760	602	84	139	48	6.8	3.8
MIN	6.6	24	32	39	45	40	85	25	20	6.1	1.5	.99

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

	1996	1997	1998	1999	2000	2001
MEAN	87.8	67.5	115	103	149	266
MAX	335	132	304	133	252	376
(WY)	1997	1997	1997	1998	1998	2001
MIN	1.94	29.4	36.9	51.8	55.8	172
(WY)	1998	1999	1999	2001	2001	1997

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1996 - 2001

	2000 CALENDAR YEAR	2001 WATER YEAR	1996	1997	1998	1999	2000	2001
ANNUAL TOTAL	36421.8	34163.39						
ANNUAL MEAN	99.5	93.6	106	142	1997			
HIGHEST ANNUAL MEAN								
LOWEST ANNUAL MEAN			67.2		1999			
HIGHEST DAILY MEAN	792	Apr 23	2630		Oct 22	1996		
LOWEST DAILY MEAN	5.9	Sep 11	.73		Sep 10	1997		
ANNUAL SEVEN-DAY MINIMUM	7.2	Sep 7	.77		Sep 4	1997		
MAXIMUM PEAK FLOW			3060		Oct 22	1996		
MAXIMUM PEAK STAGE								
10 PERCENT EXCEEDS	227	a 10.19	11.44		Oct 22	1996		
50 PERCENT EXCEEDS	60	168	248					
90 PERCENT EXCEEDS	14	46	52					
		3.0	2.7					

a Ice Jam.
e Estimated.

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, 1900 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 sea level, 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)
Dec. 17	2045	* 14,800	* 8.87	May 3	1930	4,690	4.98
Apr. 24	1845	6,190	5.68				

Minimum discharge, 25 ft³/s, September 17-20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	85	107	160	e65	53	51	1260	238	101	e38	70
2	53	85	e87	138	e64	52	51	2320	926	92	e37	48
3	53	94	e77	132	e64	52	50	3200	1720	79	e36	35
4	52	102	e88	e125	e63	51	52	3100	1060	77	e35	32
5	54	168	e84	e130	e64	51	62	1860	639	89	e34	31
6	129	147	e70	144	63	53	68	1060	458	79	e33	29
7	108	119	e62	131	68	54	73	861	362	73	e32	28
8	84	164	e50	119	63	53	87	813	294	73	e31	27
9	77	175	54	e108	63	52	86	897	251	73	e30	26
10	71	292	66	e96	e76	51	131	972	221	73	e30	27
11	69	716	95	105	e118	51	149	984	200	77	33	45
12	73	459	e108	97	e88	e50	208	1100	189	79	31	34
13	74	288	e97	96	e72	e48	398	1040	171	80	31	29
14	73	250	e84	104	66	e49	395	546	151	82	30	27
15	69	382	81	95	66	e48	282	426	137	83	28	27
16	72	263	e60	93	63	e50	262	354	126	75	28	26
17	76	224	e3940	85	61	51	265	326	159	73	29	26
18	145	196	3790	77	60	52	262	309	149	71	33	25
19	232	175	834	80	61	51	226	304	120	62	29	25
20	137	159	521	79	60	52	219	286	109	57	28	26
21	109	152	e350	75	58	57	302	263	102	54	37	164
22	97	143	e275	e72	57	64	1220	248	100	52	38	97
23	91	126	e230	e68	58	65	2270	239	99	51	33	66
24	88	e79	e200	e72	56	58	3990	225	110	50	29	55
25	84	e86	e170	69	55	55	2410	210	98	49	e27	745
26	81	e125	e160	e66	57	53	1190	185	89	52	e26	491
27	79	188	e180	68	55	53	1030	198	83	50	e27	183
28	77	177	e190	66	54	52	899	264	79	e45	e29	129
29	78	131	e185	e64	---	51	642	350	78	e43	e31	110
30	78	118	e182	e64	---	52	574	259	81	e42	28	89
31	85	---	e178	e67	---	52	---	241	---	e40	29	---
TOTAL	2703	5868	12655	2945	1818	1636	17904	24700	8599	2076	970	2772
MEAN	87.2	196	408	95.0	64.9	52.8	597	797	287	67.0	31.3	92.4
MAX	232	716	3940	160	118	65	3990	3200	1720	101	38	745
MIN	52	79	50	64	54	48	50	185	78	40	26	25
CFSM	.76	1.70	3.55	.83	.56	.46	5.19	6.93	2.49	.58	.27	.80
IN.	.87	1.90	4.09	.95	.59	.53	5.79	7.99	2.78	.67	.31	.90

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2001, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999	2000	2001			
MEAN	290	369	261	260	155	257	763	747	312	193	113	170
MAX	740	760	509	564	389	535	1093	1323	646	525	167	655
(WY)	1996	1996	1997	1996	1996	1998	1993	1996	1998	1996	1994	1999
MIN	87.2	139	83.5	95.0	64.9	52.8	264	412	179	67.0	31.3	67.7
(WY)	2001	1995	1998	2001	2001	2001	1995	1993	1999	2001	2001	1996

SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1993 - 2001
ANNUAL TOTAL	109661	84646	
ANNUAL MEAN	300	232	326
HIGHEST ANNUAL MEAN			507
LOWEST ANNUAL MEAN			202
HIGHEST DAILY MEAN	5270	Apr 9	3990
LOWEST DAILY MEAN	49	Sep 11	a 25
ANNUAL SEVEN-DAY MINIMUM	52	Sep 6	26
MAXIMUM PEAK FLOW		b 14800	Dec 17
MAXIMUM PEAK STAGE		8.87	Dec 17
INSTANTANEOUS LOW FLOW		c 25	Sep 17
ANNUAL RUNOFF (CFSM)	2.61	2.02	2.83
ANNUAL RUNOFF (INCHES)	35.47	27.38	38.52
10 PERCENT EXCEEDS	664	439	729
50 PERCENT EXCEEDS	124	79	173
90 PERCENT EXCEEDS	68	33	69

a Also occurred on September 19.
 b From rating curve extended above 5,800 ft³/s.
 c Also occurred on September 18-20.
 e Estimated.

MERRIMACK RIVER BASIN

01076500 PEMIGEWASSET RIVER AT PLYMOUTH, NH

LOCATION (REVISED).--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 sea level. 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)
Dec. 18	0500	* a 29,300	15.99	Apr. 25	0200	16,400	11.44
Dec. 18	0715	(a)	* 16.41				

Minimum discharge, 79 ft³/s, September 19, 20.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202	397	833	e870	e410	e390	568	3280	1040	388	155	139
2	198	370	667	e740	e480	e410	535	5410	3040	648	148	192
3	197	349	e585	e720	e405	e390	531	6290	9560	433	144	151
4	194	361	e590	e740	e425	e370	557	6510	6370	354	140	128
5	193	491	e570	e670	e400	e385	787	5220	3490	447	137	118
6	343	743	e490	e750	e440	e380	1060	3190	2360	431	131	112
7	611	595	e440	e650	e480	e415	1060	2350	1720	342	126	103
8	431	609	e440	e640	e460	e355	1380	2070	1350	315	122	99
9	389	615	e355	e590	e430	e385	1320	2020	1140	322	118	94
10	344	696	374	e600	e410	e400	2190	2060	988	302	147	92
11	314	2190	446	e540	e620	e390	3070	2000	891	316	131	101
12	295	1890	562	e530	e590	e380	3990	1940	896	342	125	123
13	306	1250	708	e580	e540	e410	7700	2610	844	343	117	109
14	300	1020	627	e560	e515	e420	6790	1700	737	325	113	97
15	285	2120	577	e540	e500	e460	4880	1350	644	312	106	91
16	276	1670	511	e570	e470	e470	4370	1180	574	295	101	88
17	361	1220	4680	e540	e480	e490	4150	1090	584	329	103	85
18	539	1010	21100	e560	e490	e550	3980	1010	779	403	119	83
19	1500	864	6020	e530	e445	e560	3130	975	593	325	119	81
20	939	768	3500	e510	e430	e380	2710	953	494	268	112	84
21	674	710	2440	e450	e405	e710	3480	875	439	241	137	382
22	540	656	e1950	e480	e420	e600	7800	818	402	220	138	636
23	457	578	e1600	e430	e430	e1550	12400	789	394	199	125	330
24	413	579	e1200	e470	e420	e900	12900	755	458	186	112	229
25	390	497	e1180	e420	e400	e530	11600	700	450	176	100	983
26	365	568	e900	e430	e425	e790	6040	657	376	189	95	3650
27	347	856	e890	e420	e420	886	4890	666	336	199	94	1050
28	325	1140	e930	e410	e340	709	4310	938	303	175	102	625
29	313	1030	e850	e410	---	616	3410	1850	269	165	117	478
30	313	917	e910	e400	---	631	2880	1270	281	157	111	390
31	356	---	e880	e450	---	623	---	1090	---	152	105	---
TOTAL	12710	26759	57805	17200	12680	16935	124468	63616	41802	9299	3750	10923
MEAN	410	892	1865	555	453	546	4149	2052	1393	300	121	364
MAX	1500	2190	21100	870	620	1550	12900	6510	9560	648	155	3650
MIN	193	349	355	400	340	355	531	657	269	152	94	81
CFSM	.66	1.43	3.00	.89	.73	.88	6.67	3.30	2.24	.48	.19	.59
INF.	.76	1.60	3.46	1.03	.76	1.01	7.44	3.80	2.50	.56	.22	.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2001, 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
MEAN	965	1337	1137	877	733	1730	3940	2777	1155	641	504	594																																																																																						
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1904 - 2001	
ANNUAL TOTAL		519107		397947		
ANNUAL MEAN		1418		1090		1366
HIGHEST ANNUAL MEAN						2156
LOWEST ANNUAL MEAN						735
HIGHEST DAILY MEAN		21100	Dec 18	21100	Dec 18	57300
LOWEST DAILY MEAN		171	Sep 11	81	Sep 19	45
ANNUAL SEVEN-DAY MINIMUM		180	Sep 7	87	Sep 14	66
MAXIMUM PEAK FLOW				29300	Dec 18	65400
MAXIMUM PEAK STAGE				16.41	Dec 18	b 29.00
INSTANTANEOUS LOW FLOW				c 79	Sep 19	d 39
ANNUAL RUNOFF (CFSM)		2.28		1.75		2.20
ANNUAL RUNOFF (INCHES)		31.05		23.80		29.85
10 PERCENT EXCEEDS		3350		2510		3180
50 PERCENT EXCEEDS		639		490		679
90 PERCENT EXCEEDS		282		126		236

a Discharge affected by variable slope.

b From flood marks.

c Also occurred on September 20.

d Also on October 3, 1948.

e Estimated.

01078000 SMITH RIVER NEAR BRISTOL, NH

LOCATION (REVISED).--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 sea level (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, and those below 16 cfs, which are fair. 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)
Dec. 17	2200	1,200	5.85	Apr. 23	1900	* 2,050	* 7.43

Minimum discharge, 4.0 ft³/s, September 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	27	92	92	52	e43	85	354	49	33	12	12
2	14	27	e76	e70	58	e42	81	349	207	64	11	8.3
3	14	26	e59	e65	54	42	79	313	686	54	10	9.7
4	13	25	50	63	49	41	85	265	753	41	9.8	8.5
5	13	28	47	60	47	41	108	223	515	56	9.3	8.7
6	52	40	e40	61	47	43	144	178	275	65	8.7	7.1
7	82	41	35	60	52	45	163	151	162	46	8.2	6.2
8	55	36	29	58	52	46	198	133	120	39	7.5	6.0
9	40	33	e24	57	50	45	229	121	97	38	6.8	5.6
10	32	52	25	55	56	e46	352	109	80	35	6.6	5.7
11	28	147	28	54	74	45	474	99	85	32	6.3	6.0
12	25	138	38	52	75	44	584	92	252	29	6.1	5.2
13	23	92	45	50	e65	43	760	125	207	27	6.3	4.7
14	21	77	44	49	61	45	933	119	131	25	6.1	5.1
15	20	170	43	49	59	46	918	97	96	23	5.6	4.7
16	20	176	42	49	59	50	869	88	76	22	5.4	4.4
17	22	122	356	50	58	56	822	84	71	23	7.2	4.3
18	47	94	993	48	e52	60	752	78	73	24	12	4.3
19	109	78	836	47	e50	61	661	76	61	24	8.1	4.1
20	80	69	568	47	51	63	614	71	48	22	10	4.5
21	56	62	440	47	52	73	715	64	42	20	10	14
22	45	57	e340	46	49	86	1190	63	42	18	9.2	26
23	38	48	e315	43	49	109	1830	61	51	16	10	20
24	33	34	e300	43	48	128	1890	60	68	15	8.5	15
25	31	34	e280	42	46	127	1660	54	58	13	7.1	49
26	29	38	e270	41	48	e108	1090	49	47	19	6.3	201
27	28	105	e235	40	48	102	775	55	38	19	5.9	92
28	27	146	e200	40	46	91	631	64	31	19	5.6	52
29	25	124	e155	39	---	84	507	65	28	16	5.3	38
30	25	104	126	39	---	78	403	58	26	14	4.8	30
31	26	---	113	44	---	81	---	52	---	13	5.3	---
TOTAL	1088	2250	6244	1600	1507	2014	19602	3770	4475	904	241.0	662.1
MEAN	35.1	75.0	201	51.6	53.8	65.0	653	122	149	29.2	7.77	22.1
MAX	109	176	993	92	75	128	1890	354	753	65	12	201
MIN	13	25	24	39	46	41	79	49	26	13	4.8	4.1
CFSM	.41	.87	2.35	.60	.63	.76	7.62	1.42	1.74	.34	.09	.26
IN.	.47	.98	2.71	.69	.65	.87	8.50	1.63	1.94	.39	.10	.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 2001, BY WATER YEAR (WY)

	MEAN	130	133	102	98.2	252	485	225	104	53.4	37.0	41.3
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	24.9	22.3	19.2	20.6	29.7	134	71.5	20.5	9.00	4.54	7.62
(WY)	1948	1972	1923	1940	1980	1940	1995	1941	1964	1965	1965	1948

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1918 - 2001

ANNUAL TOTAL	54340	44357.1	
ANNUAL MEAN	148	122	144
HIGHEST ANNUAL MEAN			240
LOWEST ANNUAL MEAN			64.7
HIGHEST DAILY MEAN	1700	Apr 10	6890
LOWEST DAILY MEAN	11	Sep 11	2.7
ANNUAL SEVEN-DAY MINIMUM	12	Sep 8	3.2
MAXIMUM PEAK FLOW		2050	a 8100
MAXIMUM PEAK STAGE		7.43	b 16.09
INSTANTANEOUS LOW FLOW		4.0	2.7
ANNUAL RUNOFF (CFSM)	1.73	1.42	1.68
ANNUAL RUNOFF (INCHES)	23.56	19.23	22.88
10 PERCENT EXCEEDS	360	277	348
50 PERCENT EXCEEDS	62	49	67
90 PERCENT EXCEEDS	24	8.5	17

a From rating curve extended above 2,700 ft³/s on basis of contracted-opening measurement of peak flow.
b From floodmarks.
e Estimated.

MERRIMACK RIVER BASIN

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 sea level, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges and discharges above 100 ft³/s, 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)
Dec. 17	----	125	Ice Jam	Apr. 22	1745	* 217	4.66
Dec. 28	1700	Ice Jam	* 5.98				

Minimum discharge, 0.35 ft³/s, August 29, 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.96	2.5	e7.3	e4.4	3.1	e2.7	4.4	39	4.5	5.3	1.0	2.7
2	.94	2.3	e6.5	e4.1	3.2	e2.7	4.3	36	25	6.0	.88	.80
3	.95	2.2	e5.6	e4.0	3.1	2.5	4.4	33	50	3.4	.80	.58
4	.89	2.2	e4.8	e3.9	e2.9	2.5	5.1	30	36	2.8	.80	.90
5	.97	3.1	e4.2	e3.5	e2.6	2.6	7.3	28	21	3.5	.83	.84
6	5.6	2.9	e3.8	e3.9	3.2	2.8	9.0	25	15	3.2	.73	.59
7	4.4	2.6	e3.1	e4.1	2.9	2.7	9.1	23	12	2.5	.66	.51
8	2.8	2.8	e2.4	3.8	2.8	2.6	10	21	9.5	2.4	.62	.48
9	2.3	2.6	e2.4	3.9	3.0	2.7	22	26	7.7	2.3	.58	.45
10	2.0	6.2	e2.7	e3.7	5.5	2.8	29	20	7.0	2.0	.54	.43
11	1.9	17	e3.4	e3.7	e4.3	2.6	32	6.0	7.4	2.2	.54	.44
12	2.2	9.3	e4.5	e3.3	e3.7	2.6	46	5.9	12	2.1	.54	.45
13	1.8	6.3	e3.9	e3.4	e3.4	e2.7	59	5.8	8.8	1.8	.55	.43
14	1.5	7.2	e3.5	e3.7	3.2	e3.1	57	5.0	6.9	1.8	.52	.48
15	1.3	22	e3.5	3.5	3.4	e3.5	54	4.6	5.6	1.7	.50	.44
16	1.5	21	e2.7	3.5	3.3	e3.9	54	4.5	4.7	1.5	.47	.42
17	1.6	16	e5.3	3.4	3.4	e4.3	52	4.6	6.2	2.0	.66	.47
18	5.5	13	74	e3.1	e3.1	e4.6	46	4.4	6.1	2.0	.76	.42
19	15	10	28	2.8	e3.0	e4.4	40	4.2	4.6	1.7	.52	.40
20	7.5	8.8	e2.0	2.8	e2.9	e4.9	41	4.0	4.1	1.5	.58	.40
21	4.4	8.0	e1.6	2.8	e2.8	e5.4	67	3.8	3.6	1.3	.65	1.2
22	3.2	6.4	e1.4	e2.7	e2.8	5.9	156	3.7	11	1.1	.58	.62
23	2.8	5.6	e1.1	e2.7	2.9	6.0	161	3.7	16	1.0	.52	.49
24	2.7	e4.2	e7.8	e2.6	2.8	5.4	153	3.7	16	.94	.46	.46
25	2.8	e3.6	e6.5	2.5	2.8	5.1	143	3.3	15	.88	.43	2.4
26	2.8	e4.5	e6.0	2.5	2.9	5.4	73	3.2	14	2.9	.45	2.1
27	2.6	e8.0	e6.5	2.5	2.8	4.8	42	7.9	13	2.0	.43	1.1
28	2.4	e9.8	e6.3	2.5	2.8	4.4	44	9.4	12	1.6	.42	1.0
29	1.9	e9.3	e5.9	e2.4	---	4.3	41	8.2	8.2	1.3	.39	.97
30	2.3	e8.2	e5.0	2.6	---	4.3	39	5.7	2.6	1.1	.43	.68
31	3.2	---	e4.5	3.0	---	4.9	---	4.9	---	1.2	.40	---
TOTAL	92.71	227.6	328.8	101.3	88.6	119.1	1504.6	387.5	365.5	67.02	18.24	23.65
MEAN	2.99	7.59	10.6	3.27	3.16	3.84	50.2	12.5	12.2	2.16	.59	.79
MAX	15	22	74	4.4	5.5	6.0	161	39	50	6.0	1.0	2.7
MIN	.89	2.2	2.4	2.4	2.6	2.5	4.3	3.2	2.6	.88	.39	.40
CFSM	.47	1.19	1.66	.51	.50	.60	7.86	1.96	1.91	.34	.09	.12
IN.	.54	1.33	1.92	.59	.52	.69	8.77	2.26	2.13	.39	.11	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

	1998	1999	2000	2001	1998	1999	2000	2001	1998	1999	2000	2001
MEAN	8.18	7.10	7.76	7.20	7.42	21.3	34.5	11.0	18.2	5.57	2.49	8.28
MAX	12.6	8.12	10.6	12.5	12.6	30.6	50.2	13.5	52.0	13.9	6.23	29.1
(WY)	2000	2000	2001	1999	1999	1999	2001	2000	1998	1998	2000	1999
MIN	2.99	5.60	5.35	3.27	3.16	3.84	22.1	7.15	1.88	.99	.59	.79
(WY)	2001	1999	1999	2001	2001	2001	1999	1999	1999	1999	2001	2001

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1998 - 2001

ANNUAL TOTAL	3900.82	3324.62		
ANNUAL MEAN	10.7	9.11		
HIGHEST ANNUAL MEAN			10.6	
LOWEST ANNUAL MEAN			11.4	1999
HIGHEST DAILY MEAN	74	Dec 18	9.11	2001
LOWEST DAILY MEAN	.89	Oct 4	e 398	Jun 14 1998
ANNUAL SEVEN-DAY MINIMUM	.97	Sep 29	a .39	Sep 4 1999
MAXIMUM PEAK FLOW			.42	Aug 25
MAXIMUM PEAK STAGE			217	Apr 22
INSTANTANEOUS LOW FLOW			c 5.98	Dec 28
ANNUAL RUNOFF (CFSM)	1.67		.35	Aug 29
ANNUAL RUNOFF (INCHES)	22.74		1.43	1.66
10 PERCENT EXCEEDS	29		19.38	22.55
50 PERCENT EXCEEDS	5.6		29	29
90 PERCENT EXCEEDS	1.7		3.4	4.8
			.58	.97

- a Also occurred on August 30.
- b Also occurred on September 5, 6, and 9.
- c Ice Jam.
- d Maximum observed gage height.
- 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 sea level, from topographic map.

REMARKS.--Records good except those for the period of April 22 to May 10, 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)
Dec. 17	2315	189	6.35	Apr. 22	2200	* 292	* 7.00
Apr. 12	2045	164	6.17				

Minimum discharge, 0.03 ft³/s, August 16, 17, 30, and 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.78	4.5	7.4	e4.7	e3.5	e2.6	10	26	4.6	1.9	1.1	.45
2	.74	3.2	6.0	e4.4	e3.5	e2.5	10	26	46	2.8	.55	.60
3	.71	2.7	5.1	e4.3	e3.3	e2.4	11	22	79	1.6	.39	.30
4	.63	2.6	e4.8	e4.2	e3.0	e2.3	13	20	40	1.5	.32	.27
5	.71	4.9	4.7	e4.1	e2.9	e2.4	21	21	22	2.5	.25	.57
6	2.9	6.4	4.2	e4.0	e3.5	e2.6	26	16	15	1.7	.20	.35
7	2.4	4.9	3.4	e3.9	e3.2	e2.5	26	13	11	1.3	.18	.24
8	1.4	4.1	2.5	e3.9	e3.0	e2.5	29	11	8.6	1.5	.13	.18
9	1.2	3.7	2.6	e3.8	e3.2	e2.5	37	9.9	7.0	2.2	.09	.14
10	1.1	7.5	3.0	e3.8	e5.4	e2.6	66	9.0	5.9	4.0	.07	.14
11	1.1	44	e3.8	e3.7	e4.3	e2.4	68	7.7	6.1	2.2	.07	.24
12	1.0	24	e4.0	e3.6	e3.4	e2.4	92	7.3	10	1.8	.06	.21
13	.97	15	e4.3	e3.6	e3.0	e2.5	127	7.5	6.9	1.4	.05	.14
14	e.87	14	e3.7	e3.5	e3.1	e3.4	110	6.4	5.3	1.3	.04	.12
15	e1.1	41	e4.0	e3.5	e3.2	4.1	85	5.9	4.5	1.1	.04	.10
16	e1.4	24	e4.2	e3.5	e3.2	e4.6	80	6.0	3.8	.84	.03	.07
17	e1.7	16	e66	e3.4	e3.1	e4.8	76	5.9	4.0	1.3	.04	.06
18	4.6	12	101	e3.3	e2.9	e5.4	68	5.3	4.2	1.5	.12	.05
19	10	10	e32	e3.2	e2.8	e6.0	53	5.3	3.0	1.1	e.18	.05
20	4.4	8.6	e22	e3.2	e2.8	e7.0	54	4.7	2.7	.79	.15	.06
21	2.9	7.8	e18	e3.1	e2.5	e8.0	69	4.2	2.3	.64	.33	3.9
22	2.3	7.0	15	e3.0	e2.4	e14	149	3.7	2.4	.55	.30	2.4
23	1.9	5.9	12	e3.0	e2.7	41	153	3.6	2.8	.47	.20	1.1
24	1.9	e4.7	e8.2	e2.9	e2.6	29	145	3.3	3.8	.41	.12	.68
25	1.8	4.1	e7.0	e2.8	e2.6	23	104	2.9	3.0	.36	.07	4.2
26	1.7	e5.0	6.5	e2.8	e2.7	20	55	2.8	2.3	1.7	.05	4.9
27	1.7	e8.0	e7.1	e2.7	e2.6	15	46	7.6	1.8	1.5	.05	1.7
28	1.6	e9.8	e7.0	e2.7	e2.4	13	39	10	1.5	.63	.05	1.1
29	1.5	8.7	e6.4	e2.7	---	12	31	11	1.2	.50	.05	.85
30	1.8	8.1	e5.6	e2.8	---	11	26	6.7	1.3	.38	.03	.64
31	5.6	---	e5.0	e3.3	---	12	---	5.3	---	.40	.03	---
TOTAL	64.41	322.2	386.5	107.4	86.8	265.5	1879	297.0	312.0	41.87	5.34	25.81
MEAN	2.08	10.7	12.5	3.46	3.10	8.56	62.6	9.58	10.4	1.35	.17	.86
MAX	10	44	101	4.7	5.4	41	153	26	79	4.0	1.1	4.9
MIN	.63	2.6	2.5	2.7	2.4	2.3	10	2.8	1.2	.36	.03	.05
CFSM	.30	1.54	1.78	.50	.44	1.23	8.96	1.37	1.49	.19	.02	.12
IN.	.34	1.71	2.06	.57	.46	1.41	10.00	1.58	1.66	.22	.03	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

	1998	1999	2000	2001	1998	1999	2000	2001	1998	1999	2000	2001
MEAN (WY)	8.09	10.5	9.89	8.26	8.62	25.3	36.2	10.4	6.05	2.67	2.16	5.73
MAX (WY)	11.7	11.1	12.5	13.8	13.0	34.8	62.6	15.5	10.4	5.48	3.99	18.1
MIN (WY)	2.08	9.82	6.91	3.46	3.10	8.56	14.6	6.02	1.49	1.18	.17	.86
	2001	1999	1999	2001	2001	2001	1999	1999	1999	1999	2001	2001

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1998 - 2001

ANNUAL TOTAL	4285.48	3793.83	
ANNUAL MEAN	11.7	10.4	
HIGHEST ANNUAL MEAN			11.2
LOWEST ANNUAL MEAN			12.4
HIGHEST DAILY MEAN	109	Mar 28	190
LOWEST DAILY MEAN	.63	Sep 11	a .03
ANNUAL SEVEN-DAY MINIMUM	.72	Sep 29	.05
MAXIMUM PEAK FLOW			292
MAXIMUM PEAK STAGE			7.00
INSTANTANEOUS LOW FLOW			b .03
ANNUAL RUNOFF (CFSM)	1.68	1.49	1.60
ANNUAL RUNOFF (INCHES)	22.81	20.19	21.70
10 PERCENT EXCEEDS	30	26	26
50 PERCENT EXCEEDS	5.6	3.3	5.3
90 PERCENT EXCEEDS	1.2	.23	.80

a Also occurred on August 30, 31, 2001.
b Also occurred on August 17, 30, and 31, 2001.
e Estimated.

MERRIMACK RIVER BASIN

0108000 LAKE WINNIPESAUKEE AT WEIRS BEACH, NH

LOCATION (REVISED).--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, monthend 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 (+).

GAGE.--Water-stage recorder. Datum of gage is 499.92 ft above sea level. Prior to November 1937, nonrecording gage at lake outlet at Lakeport at datum 0.63 ft, (corrected) higher. November 24, 1937 to November 7, 1965, water-stage recorder at site 500 ft southeast at present datum.

REMARKS.--Lake used for recreation and conservation for development of water power. Usable capacity, 7.22 billion ft³ between elevations 500.57 ft and 504.24 ft above sea level. Stage regulated at outlet and by Wentworth, Merrymeeting, and other lakes. Contents given herein are computed from gage height at 2400 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	13,880
3.0	15,840
4.0	17,840
5.0	19,850

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

EXTREMES FOR CURRENT YEAR.--Maximum daily gage height, 4.37 ft, June 6, 7; minimum daily gage height, 2.11 ft, March 21.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.75	2.73	2.92	3.20	2.46	2.27	2.39	3.92	3.96	3.88	3.51	2.90
2	2.74	2.73	2.91	3.19	2.44	2.26	2.38	3.92	4.09	3.85	3.48	2.89
3	2.72	2.74	2.90	3.17	2.42	2.25	2.38	3.92	4.28	3.85	3.46	2.87
4	2.71	2.74	2.90	3.15	2.41	2.25	2.38	3.93	4.34	3.85	3.46	2.85
5	2.70	2.77	2.90	3.12	2.41	2.24	2.37	3.92	4.36	3.85	3.44	2.84
6	2.77	2.77	2.86	3.12	2.49	2.30	2.38	3.92	4.37	3.82	3.42	2.81
7	2.74	2.76	2.86	3.09	2.48	2.32	2.40	3.91	4.37	3.81	3.40	2.80
8	2.71	2.74	2.86	3.07	2.46	2.32	2.42	3.90	4.34	3.81	3.38	2.79
9	2.70	2.73	2.83	3.04	2.47	2.31	2.45	3.90	4.31	3.82	3.36	2.77
10	2.66	2.77	2.84	3.01	2.46	2.33	2.49	3.89	4.29	3.81	3.33	2.76
11	2.63	2.85	2.84	2.98	2.43	2.32	2.55	3.88	4.28	3.79	3.32	2.74
12	2.63	2.85	2.82	2.95	2.42	2.31	2.65	3.88	4.30	3.77	3.30	2.72
13	2.63	2.86	2.83	2.93	2.40	2.32	2.78	3.88	4.26	3.76	3.27	2.69
14	2.63	2.87	2.87	2.90	2.38	2.31	2.88	3.88	4.23	3.74	3.25	2.68
15	2.62	2.91	2.88	2.87	2.36	2.29	2.97	3.88	4.20	3.72	3.23	2.65
16	2.64	2.92	2.89	2.85	2.34	2.25	3.05	3.88	4.16	3.72	3.19	2.62
17	2.64	2.92	3.01	2.82	2.33	2.23	3.12	3.88	4.14	3.73	3.18	2.60
18	2.71	2.92	3.11	2.79	2.31	2.19	3.18	3.87	4.10	3.74	3.17	2.58
19	2.75	2.93	3.22	2.76	2.30	2.16	3.24	3.87	4.07	3.72	3.16	2.58
20	2.76	2.93	3.23	2.74	2.29	2.14	3.31	3.87	4.05	3.70	3.16	2.56
21	2.76	2.91	3.29	2.70	2.27	2.11	3.37	3.87	4.03	3.69	3.14	2.58
22	2.75	2.89	3.30	2.67	2.25	2.19	3.45	3.86	4.02	3.66	3.12	2.57
23	2.76	2.87	3.27	2.64	2.25	2.28	3.57	3.86	3.99	3.64	3.10	2.56
24	2.75	2.86	3.29	2.61	2.24	2.30	3.66	3.85	4.00	3.61	3.07	2.56
25	2.76	2.86	3.23	2.57	2.27	2.32	3.76	3.84	3.98	3.59	3.05	2.60
26	2.76	2.89	3.19	2.53	2.29	2.33	3.83	3.83	3.97	3.64	3.01	2.61
27	2.77	2.92	3.20	2.50	2.28	2.32	3.87	3.88	3.94	3.61	2.98	2.58
28	2.71	2.93	3.20	2.47	2.27	2.32	3.88	3.94	3.91	3.58	2.96	2.58
29	2.70	2.94	3.21	2.45	---	2.31	3.90	3.98	3.90	3.57	2.92	2.56
30	2.72	2.94	3.20	2.45	---	2.35	3.91	3.95	3.88	3.55	2.91	2.53
31	2.74	---	3.22	2.47	---	2.40	---	3.94	---	3.52	2.88	---
MEAN	2.71	2.85	3.03	2.83	2.36	2.28	3.03	3.89	4.14	3.72	3.21	2.68
MAX	2.77	2.94	3.30	3.20	2.49	2.40	3.91	3.98	4.37	3.88	3.51	2.90
MIN	2.62	2.73	2.82	2.45	2.24	2.11	2.37	3.83	3.88	3.52	2.88	2.53

(+)	15,310	15,730	16,280	14,820	14,430	14,660	17,720	17,780	17,580	16,860	15,610	14,860
(+)	-22	162	205	-545	-161	86	1181	22	-77	-269	-467	-289

CAL YR 2000 MEAN 3.32 MAX 4.20 MIN 2.27 (+) +31.9
WTR YR 2001 MEAN 3.06 MAX 4.37 MIN 2.11 (+) -16.2

(+) Millions of cubic feet at 2400 on last day of month.

(+) Change in contents equivalent in cubic feet per second.

01080500 LAKE WINNIPESAUKEE OUTLET AT LAKEPORT, NH

LOCATION (Revised).--Lat 43°32'57", long 71°27'54", Belknap County, Hydrologic Unit 01070002, on right bank, 100 ft upstream from Elm Street bridge across Paugus Bay, 150 ft upstream of dam across Paugus Bay, 0.2 mi northwest of Elm Street and US 3 intersection in Lakeport, and 1.4 mi north of Laconia Post Office.

DRAINAGE AREA.--363 mi².

PERIOD OF RECORD.--Discharge records: January 1860 to December 1911 (monthly gage heights only, published in WSP 301), June 1933 to September 1983. October 1987 to current year.

GAGE.--Acoustic velocity meter and measuring flume. Datum of gage is 500.55 ft above sea level. January 1860 to December 1911, nonrecording gage at site 150 ft downstream at same datum. June 1, 1933 to September 30, 1936, nonrecording gage and continuous-recording current meter at present site and datum. October 1, 1936 to May 23, 1944, discharge computed from flow over spillway and through gates and wheels at site 150 ft downstream. May 24, 1944 to September 1983, record obtained from water-stage recorder, deflection meter, and measuring flume.

REMARKS.--Records good except those for the periods December 17 to January 4, and April 17 to August 3, which are fair. Flow completely regulated by Winnepesaukee (station 01080000), Wentworth, Merrymeeting, and other lakes. Daily discharge computed from the acoustic flowmeter.

COOPERATION.--Records were provided by New Hampshire Department of Environmental Services.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,090 ft³/s, June 15-17; minimum daily discharge, 5.0 ft³/s, November 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	243	6	239	784	758	376	757	808	251	279	279	249
2	264	5	243	786	543	365	764	807	238	271	283	250
3	246	10	245	810	559	364	764	594	320	284	276	257
4	248	11	234	917	575	364	763	580	534	280	267	252
5	271	9	247	910	589	365	778	598	814	280	270	245
6	242	250	253	913	586	363	764	596	831	280	275	251
7	255	698	243	916	585	366	761	603	897	282	255	256
8	252	553	233	924	614	473	770	381	1080	277	257	258
9	31	542	243	916	714	514	765	378	1080	282	258	248
10	30.9	546	246	915	685	509	677	374	1050	289	252	254
11	25.9	557	242	915	694	511	591	346	1060	281	250	246
12	19.7	563	243	913	711	510	589	259	1070	275	243	249
13	16.8	558	239	917	712	759	743	256	1070	279	246	249
14	14.5	360	331	916	712	802	857	232	1080	274	246	249
15	9.5	320	248	847	713	1002	1040	226	1090	277	245	250
16	5.2	249	222	912	614	997	1040	234	1090	275	233	247
17	8.9	237	220	913	511	996	1040	244	1090	275	250	249
18	11.8	250	225	930	510	997	803	247	912	276	243	248
19	16.4	235	231	1023	509	995	595	239	784	273	251	248
20	19	231	339	1024	512	991	615	241	703	292	240	246
21	17.9	250	542	1052	506	994	602	244	699	315	247	243
22	11.5	307	560	1022	414	948	609	237	612	301	249	244
23	15.9	226	560	1018	364	483	608	236	600	308	252	243
24	41.7	268	560	1016	364	485	608	242	612	279	248	243
25	51.9	245	550	1017	362	491	574	247	612	283	266	242
26	25	238	665	982	363	727	600	242	414	271	257	245
27	24	252	565	739	365	757	783	249	298	310	253	245
28	23	249	755	768	365	757	860	244	280	288	252	244
29	15	250	788	765	---	751	793	254	284	290	239	244
30	11	241	875	759	---	757	803	248	281	311	254	245
31	7.5	---	776	755	---	765	---	244	---	280	253	---
TOTAL	2475.0	8716	12162	27994	15509	20534	22316	10930	21736	8817	7889	7439
MEAN	79.8	291	392	903	554	662	744	353	725	284	254	248
MAX	271	698	875	1050	758	1000	1040	808	1090	315	283	258
MIN	5.2	5.0	220	739	362	363	574	226	238	271	233	242

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 1983, 1988 - 2001, BY WATER YEAR (WY)

MEAN	332	396	523	701	777	667	719	737	542	398	365	359
MAX	909	993	1245	1671	1672	1550	2596	2074	1548	1612	783	868
(WY)	1978	1982	1955	1955	1958	1951	1936	1996	1954	1998	1967	1951
MIN	79.8	149	49.3	45.0	67.7	33.2	92.8	75.2	148	161	185	202
(WY)	2001	1942	1942	1942	1942	1942	1942	1957	1957	1957	1957	1957

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1933 - 1983, 1988 - 2001
ANNUAL TOTAL	190195.0	166517.0	
ANNUAL MEAN	520	456	541
HIGHEST ANNUAL MEAN			858
LOWEST ANNUAL MEAN			174
HIGHEST DAILY MEAN	1800	Apr 24	a 1090
LOWEST DAILY MEAN	5.0	Nov 2	5.0
ANNUAL SEVEN-DAY MINIMUM	8.5	Oct 30	8.5
10 PERCENT EXCEEDS	922		1090
50 PERCENT EXCEEDS	368		365
90 PERCENT EXCEEDS	226		230

a Also occurred June 16, 17.
b Dam closed.

MERRIMACK RIVER BASIN

01081000 WINNIPESAUKEE RIVER AT TILTON, NH

LOCATION (REVISED).--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 years 1953.

REVISED RECORDS.--WSP 1901: 1960.

GAGE.--Water-stage recorder. Datum of gage is 441.87 ft above sea level.

REMARKS.--Records good except those for October 23-32, November 1-10, and February 11, 12, 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, 2,120 ft³/s, April 15, gage height 5.87 ft; minimum daily discharge, 48 ft³/s, November 9.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	298	e53	341	778	807	526	890	1110	447	271	295	273
2	296	e63	331	822	815	e520	887	1090	440	282	250	263
3	295	e57	319	998	811	516	890	1020	858	276	258	256
4	295	e53	303	1020	806	510	904	875	1160	270	260	258
5	295	e55	304	1020	807	514	937	851	1130	288	258	249
6	328	e63	307	1020	816	522	1040	838	1060	277	256	243
7	328	e58	302	1020	803	513	1150	691	1080	248	254	241
8	316	e52	297	971	798	510	1180	393	1170	246	249	240
9	465	e48	292	976	799	513	1200	363	1170	257	251	238
10	766	e58	289	1020	e660	515	1300	355	1170	263	240	238
11	722	e117	291	1010	e674	512	1400	328	1180	266	237	239
12	782	130	301	1010	e754	513	1530	258	1320	264	237	236
13	628	144	303	1010	766	590	1950	248	1390	261	236	236
14	494	292	309	1010	768	835	2060	244	1290	262	234	239
15	405	389	309	1010	769	994	2050	240	1190	260	233	236
16	343	385	303	1010	699	993	2030	243	1160	258	232	235
17	291	349	355	1010	554	1010	2020	253	1170	262	239	236
18	281	314	874	1000	e557	1020	1870	254	1130	261	249	235
19	333	300	1050	1000	e548	1020	1490	258	1010	283	243	235
20	281	295	934	1010	540	1030	1410	256	986	332	245	235
21	166	295	858	1010	538	1040	1400	282	920	338	246	251
22	129	309	834	1010	e480	1100	1440	344	813	335	244	246
23	e108	308	818	1010	327	1140	1550	348	802	329	242	243
24	e71	301	803	1000	e308	1150	1540	348	807	304	242	240
25	e63	296	795	992	312	1130	1520	344	744	296	240	274
26	e56	312	785	941	309	1030	1370	341	590	311	239	279
27	e53	353	781	806	e308	883	1210	362	525	307	240	266
28	e51	365	777	793	390	862	1180	414	429	303	242	254
29	e51	356	774	790	---	859	1150	513	252	300	239	248
30	e51	347	779	798	---	878	1120	548	251	298	240	244
31	e49	---	757	777	---	890	---	514	---	302	242	---
TOTAL	9090	6517	16875	29652	17523	24638	41668	14526	27644	8810	7612	7406
MEAN	293	217	544	957	626	795	1389	469	921	284	246	247
MAX	782	389	1050	1020	816	1150	2060	1110	1390	338	295	279
MIN	49	48	289	777	308	510	887	240	251	246	232	235

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2001, BY WATER YEAR (WY)

MEAN	422	521	716	850	929	967	1167	963	713	466	407	402
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	219	217	136	145	158	418	420	217	201	179	181	182
(WY)	1958	2001	1942	1942	1942	1989	1948	1957	1957	1957	1957	1957

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1937 - 2001	
ANNUAL TOTAL	249054		211961			
ANNUAL MEAN	680		581		706	
HIGHEST ANNUAL MEAN					1229	
LOWEST ANNUAL MEAN					304	
HIGHEST DAILY MEAN	2600	Apr 10	2060	Apr 14	4480	May 31 1984
LOWEST DAILY MEAN	48	Nov 9	e 48	Nov 9	a 48	Aug 31 1941
ANNUAL SEVEN-DAY MINIMUM	52	Oct 26	52	Oct 26	52	Oct 26 2000
MAXIMUM PEAK FLOW			2120		4580	
MAXIMUM PEAK STAGE			5.87		8.68	
10 PERCENT EXCEEDS	1480		1130	Apr 15	1430	May 31 1984
50 PERCENT EXCEEDS	555		355		535	
90 PERCENT EXCEEDS	291		237		265	

a Also occurred November 9, 2000.
e Estimated.

01085800 WEST BRANCH WARNER RIVER NEAR BRADFORD, NH

LOCATION (REVISED)--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 Fairground 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 sea level, from topographic map.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 17	1930	* 693	* 8.65	June 3	0230	216	6.67
Apr. 22	1615	450	7.81	June 11	2230	167	6.34

Minimum daily discharge, 0.19 ft³/s, August 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.92	3.7	9.3	5.1	5.9	3.5	5.3	22	3.4	8.1	.72	.84
2	.78	3.3	7.5	4.9	5.1	3.3	5.1	20	40	7.6	.67	.50
3	.79	2.9	6.2	4.9	4.6	3.2	5.1	16	122	3.2	.62	.39
4	.86	2.8	6.0	4.8	4.1	3.1	6.2	14	43	2.7	.68	.36
5	1.0	3.4	5.8	4.7	4.0	3.3	10	12	22	3.5	.65	.39
6	8.4	4.8	5.4	4.7	5.0	3.6	13	10	14	2.4	.54	.31
7	4.9	4.2	e4.7	4.5	4.0	3.5	15	9.1	9.5	2.0	.48	.29
8	3.0	3.6	4.4	4.4	3.7	3.2	19	8.1	7.2	2.1	.40	.27
9	2.3	3.3	e4.0	4.4	4.3	3.3	29	7.2	5.7	2.1	.35	.25
10	2.0	16	3.7	4.3	12	3.4	61	6.3	4.9	1.9	.34	.25
11	1.9	26	4.1	4.1	10	3.3	60	5.8	28	2.0	.33	.28
12	1.8	14	7.0	3.9	6.9	3.2	63	5.4	53	1.9	.54	.25
13	1.7	9.4	5.7	3.7	6.1	3.5	91	6.5	18	1.8	.67	.25
14	1.6	12	5.0	3.7	5.7	3.5	84	5.5	10	1.6	.42	.33
15	1.4	38	4.6	3.8	5.8	3.7	71	4.8	7.3	1.5	.34	.27
16	2.0	17	4.5	3.9	5.2	4.6	68	5.1	5.4	1.2	.30	.26
17	3.4	12	205	3.8	5.1	4.9	65	4.9	7.4	2.1	.34	.21
18	13	9.6	89	3.7	4.7	5.0	54	4.6	7.1	2.1	.54	.21
19	14	8.3	30	3.7	4.3	4.8	44	4.5	4.5	1.5	.37	.20
20	6.8	7.3	20	3.7	4.3	5.3	57	4.0	3.6	1.2	.36	.25
21	4.9	6.7	15	3.7	4.3	6.6	96	3.7	3.3	.92	.49	2.2
22	3.9	6.0	12	3.4	4.1	7.2	254	4.6	3.7	.84	.44	.92
23	3.3	5.3	10	3.4	4.0	7.4	172	5.4	4.5	.72	.35	.59
24	3.1	4.5	9.2	3.4	3.7	6.4	177	4.6	5.7	.68	.30	.47
25	2.8	4.3	7.8	3.3	3.7	6.3	84	3.8	3.8	.61	.24	4.9
26	2.7	7.1	6.7	3.2	3.8	5.8	51	3.4	2.9	2.4	.23	3.0
27	2.5	22	6.3	3.2	3.6	5.3	42	4.0	2.3	1.6	.24	1.1
28	2.4	17	5.7	3.1	3.5	5.1	34	5.0	2.0	1.0	.23	.82
29	2.3	12	5.3	3.0	---	5.0	25	4.6	1.8	.86	.22	.80
30	2.5	10	5.1	e3.8	---	5.7	22	4.2	1.8	.81	.19	.66
31	3.8	---	5.6	8.4	---	5.7	---	4.1	---	.68	.24	---
TOTAL	106.75	296.5	520.6	126.6	141.5	141.7	1782.7	223.2	447.8	63.62	12.83	21.82
MEAN	3.44	9.88	16.8	4.08	5.05	4.57	59.4	7.20	14.9	2.05	.41	.73
MAX	.14	.38	205	8.4	12	7.4	254	.22	122	8.1	.72	4.9
MIN	.78	2.8	3.7	3.0	3.5	3.1	5.1	3.4	1.8	.61	.19	.20
CFSM	.60	1.72	2.92	.71	.88	.79	10.3	1.25	2.60	.36	.07	.13
IN.	.69	1.92	3.37	.82	.92	.92	11.53	1.44	2.90	.41	.08	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2001, BY WATER YEAR (WY)

	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							
MEAN	7.78	12.3	11.9	8.76	9.69	22.1	36.9	17.7	7.69	3.22	2.71	2.52																																			
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	.49	1.59	3.04	1.87	.95	4.57	10.5	5.01	1.04	.26	.17	.17																																			
(WY)	1964	1979	1979	1977	1980	2001	1995	1965	1965	1965	1965	1964																																			

SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1962 - 2001
ANNUAL TOTAL	5016.32	3885.62	
ANNUAL MEAN	13.7	10.6	
HIGHEST ANNUAL MEAN			11.9
LOWEST ANNUAL MEAN			18.6
HIGHEST DAILY MEAN	205 Dec 17	254 Apr 22	4.60
LOWEST DAILY MEAN	.68 Sep 12	.19 Aug 30	.07
ANNUAL SEVEN-DAY MINIMUM	.83 Sep 8	.23 Aug 25	.09
MAXIMUM PEAK FLOW		a 693 Dec 17	a 829 Sep 17 1999
MAXIMUM PEAK STAGE		8.65 Dec 17	b 9.04 Sep 17 1999
INSTANTANEOUS LOW FLOW			c .06 Sep 20 1964
ANNUAL RUNOFF (CF SM)	2.38	1.85	2.08
ANNUAL RUNOFF (INCHES)	32.45	25.14	28.22
10 PERCENT EXCEEDS	30	20	28
50 PERCENT EXCEEDS	7.1	4.1	5.0
90 PERCENT EXCEEDS	1.8	.41	.65

- a From rating curve extended above 300 ft³/s.
- b From floodmarks.
- c About.
- e Estimated.

MERRIMACK RIVER BASIN

01089100 SOUCCOOK RIVER AT PEMBROKE ROAD NEAR CONCORD, NH

LOCATION (REVISED).--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 Frenchs 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 sea level, 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 miles 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)
Dec. 18	1545	846	8.11	Apr. 14	1130	* 1,210	* 9.17

Minimum discharge, 7.1 ft³/s, September 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	69	104	93	68	e49	236	144	86	44	19	13
2	25	60	90	87	70	e47	210	133	159	71	18	13
3	24	52	e70	84	e67	45	203	123	576	58	20	12
4	22	47	e68	80	e59	43	221	114	485	49	53	12
5	21	50	e67	77	59	43	276	112	306	52	51	12
6	39	67	e60	77	62	45	341	101	204	51	35	12
7	61	63	e53	77	65	48	340	91	148	41	28	11
8	46	55	e50	74	60	e49	399	85	114	37	24	11
9	38	49	e44	73	60	49	421	79	93	38	21	10
10	35	67	45	71	e70	49	665	74	81	38	20	9.6
11	43	216	49	67	e72	e49	828	68	83	57	18	9.6
12	39	217	e55	65	e70	e50	831	63	296	54	18	8.8
13	35	159	e53	62	65	51	991	61	247	45	19	8.1
14	33	131	e52	60	60	54	1120	60	169	39	17	8.6
15	30	235	e54	59	59	64	934	56	125	37	16	8.7
16	30	250	e50	60	e56	78	786	56	97	33	14	8.3
17	34	188	e150	60	e56	77	670	58	96	33	14	8.0
18	39	154	e710	e57	e54	80	592	e56	143	35	17	7.9
19	87	130	479	56	e51	86	507	55	106	31	15	7.7
20	81	114	315	56	51	e94	434	50	87	28	14	7.6
21	62	104	230	56	e51	111	379	46	77	26	14	12
22	52	94	195	e54	e49	223	390	43	68	24	16	16
23	45	85	155	e53	48	501	424	42	67	23	16	14
24	43	e65	124	51	e47	521	373	43	77	22	14	12
25	45	e60	e110	50	45	463	308	41	85	20	13	17
26	42	e68	e100	48	50	388	263	38	76	29	12	33
27	39	137	e105	47	55	337	221	62	65	37	11	26
28	36	152	e97	47	e52	299	192	131	54	28	11	20
29	32	130	90	45	---	275	170	219	47	24	11	17
30	37	113	86	46	---	260	154	156	42	21	10	14
31	50	---	92	58	---	258	---	112	---	20	10	---
TOTAL	1269	3381	4002	1950	1631	4786	13879	2572	4359	1145	589	379.9
MEAN	40.9	113	129	62.9	58.2	154	463	83.0	145	36.9	19.0	12.7
MAX	87	250	710	93	72	521	1120	219	576	71	53	33
MIN	21	47	44	45	45	43	154	38	42	20	10	7.6
CFSM	.50	1.38	1.58	.77	.71	1.89	5.65	1.01	1.77	.45	.23	.15
IN.	.58	1.54	1.82	.89	.74	2.17	6.30	1.17	1.98	.52	.27	.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2001, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	81.1	129	137	128	125	228	280	158	98.3	43.8	35.8	36.7		
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	30.6	35.2	35.8	34.6	134	120	55.5	16.1	11.6	13.0	8.33		
(WY)	1998	1995	1999	1989	1993	1992	1999	1999	1999	1993	1999	1995		

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1988 - 2001

ANNUAL TOTAL	47561	39942.9	
ANNUAL MEAN	130	109	124
HIGHEST ANNUAL MEAN			198
LOWEST ANNUAL MEAN			84.3
HIGHEST DAILY MEAN	877	Mar 29	1120
LOWEST DAILY MEAN	15	Sep 11	7.6
ANNUAL SEVEN-DAY MINIMUM	16	Sep 6	8.1
MAXIMUM PEAK FLOW			1210
MAXIMUM PEAK STAGE			9.17
INSTANTANEOUS LOW FLOW			7.1
ANNUAL RUNOFF (CFSM)	1.59		1.34
ANNUAL RUNOFF (INCHES)	21.60		18.14
10 PERCENT EXCEEDS	311		261
50 PERCENT EXCEEDS	78		56
90 PERCENT EXCEEDS	31		15

a Also occurred September 16, 1995, and October 4, 1995.
e Estimated.

01092000 MERRIMACK RIVER NEAR GOFFS FALLS, BELOW MANCHESTER, NH

LOCATION (REVISED).--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 sea level.

REMARKS.--Records good except 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, 28,800 ft³/s, April 15, gage height, 10.42 ft; minimum daily discharge, 582 ft³/s, August 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1490	1710	4150	3900	2940	2360	6780	13300	3180	1720	1200	957
2	1330	1720	3920	3980	3070	2320	6330	11900	4910	2230	1070	752
3	1470	1720	4260	4130	3110	2480	6190	12500	7820	2150	1370	665
4	1410	1510	2370	4010	2890	2350	6010	13000	16600	2170	1080	704
5	1140	1950	2730	3910	2990	2380	6520	12800	17400	2090	1080	728
6	1660	2010	2530	3800	2440	2370	7360	11500	13600	2080	1020	689
7	2330	2270	2800	3900	2960	2460	8210	8430	9990	1790	917	985
8	2200	2250	1940	3730	3250	2660	9610	6710	7030	1790	877	795
9	2430	1780	2160	3610	3170	2700	10400	5570	6020	1990	1040	791
10	2100	2480	2170	3560	3220	2620	13300	4900	5380	1730	980	825
11	2480	3900	1980	3660	3130	2720	16900	4750	4980	1630	1070	854
12	2420	5010	2230	3430	3420	2680	20100	4610	5560	1960	886	747
13	2130	5610	2140	3330	3550	2890	22700	4320	6870	1600	654	761
14	2000	5330	2410	3240	3240	2720	27700	4810	6620	1670	582	764
15	3090	4510	2170	3230	3310	3040	28300	3930	5920	1370	737	768
16	1750	5830	2560	3400	3360	3470	25900	3010	4760	1580	726	701
17	1930	6180	3730	3330	3040	3450	24500	3180	4450	1150	665	623
18	1800	5810	12400	3120	2870	3920	23600	3430	4630	1280	728	633
19	2710	4600	21800	3300	2800	3790	22200	2840	3970	1590	811	705
20	3430	4010	22700	3250	2850	3880	19600	2970	4060	1510	907	667
21	3720	3560	17900	3110	2850	4400	18200	2730	3420	1640	760	913
22	2960	3490	11800	3060	2440	6190	18600	2230	3260	1390	950	988
23	2420	3280	8150	2920	2500	10500	22600	2530	3300	1290	721	1220
24	1980	2880	6430	3150	2240	11000	25000	2610	3140	1020	753	849
25	2020	2650	e5400	2850	2310	11200	26600	2420	3510	1030	727	2000
26	2170	2450	e4800	3000	2180	10400	26900	2130	2960	1250	708	3360
27	1940	3380	e4800	2880	2560	9140	25800	3010	2540	1320	752	4400
28	1470	4420	e4700	2700	2510	7980	22700	2910	2230	1080	774	2360
29	1570	5040	4680	2600	---	7380	18600	3830	1920	1140	772	1540
30	1540	4690	4300	2740	---	7450	15800	4420	1800	1150	777	1570
31	1980	---	3860	2980	---	6670	---	4280	---	1000	697	---
TOTAL	65070	106030	179970	103810	81200	149570	533010	171560	171830	48390	26791	34314
MEAN	2099	3534	5805	3349	2900	4825	17770	5534	5728	1561	864	1144
MAX	3720	6180	22700	4130	3550	11200	28300	13300	17400	2230	1370	4400
MIN	1140	1510	1940	2600	2180	2320	6010	2130	1800	1000	582	623

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2001, BY WATER YEAR (WY)

	3037	4702	5283	4546	4744	8030	14040	8633	4520	2459	1958	2106
MEAN	3037	4702	5283	4546	4744	8030	14040	8633	4520	2459	1958	2106
MAX (WY)	10380	12910	13690	10840	11370	18240	25660	18250	16480	11470	8576	14500
MIN (WY)	1978	1996	1984	1978	1970	1953	1969	1954	1984	1973	1990	1938
MIN (WY)	771	1341	1458	1410	1354	2141	4612	3059	1354	808	782	745
MIN (WY)	1965	1979	1979	1948	1980	1940	1995	1957	1964	1991	1965	1957

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1937 - 2001
ANNUAL TOTAL	2079760	1671545	
ANNUAL MEAN	5682	4580	5311
HIGHEST ANNUAL MEAN			8400
LOWEST ANNUAL MEAN			2248
HIGHEST DAILY MEAN	27300	Mar 30	28300
LOWEST DAILY MEAN	1070	Sep 9	582
ANNUAL SEVEN-DAY MINIMUM	1290	Sep 8	694
MAXIMUM PEAK FLOW			28800
MAXIMUM PEAK STAGE		10.42	Apr 15
10 PERCENT EXCEEDS	12700	11100	12200
50 PERCENT EXCEEDS	3470	2880	3420
90 PERCENT EXCEEDS	1720	868	1200

a From rating curve extended above 48,000 ft³/s as explained above.
e Estimated.

MERRIMACK RIVER BASIN

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 sea level, from topographic map.

REMARKS.--Records good except those below 3.5 ft³/s, for the period of October 1 to July 30, which are fair, 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)	Gage height (ft)
Dec. 17	1900	* 169	* 4.11	Apr. 22	1415	112	3.80

Minimum discharge, 0.11 ft³/s, August 29, 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.39	2.3	4.0	e3.7	2.8	e2.2	9.1	9.2	2.5	2.8	.42	1.9
2	.53	2.1	3.5	e3.5	2.5	e2.2	6.7	8.3	17	3.2	.35	.43
3	.55	1.9	3.1	3.3	2.3	2.1	6.5	7.4	24	1.8	.34	.30
4	.55	1.9	3.0	3.1	2.3	2.0	7.3	6.7	14	1.4	.41	.43
5	.58	2.1	2.9	3.3	e2.3	2.1	9.5	6.0	7.9	1.7	.41	.45
6	6.9	2.6	2.8	3.1	5.8	3.3	12	5.3	5.4	1.7	.34	.30
7	3.8	2.3	e2.7	2.8	3.5	2.9	14	4.9	4.0	1.2	.30	.27
8	1.9	2.2	e2.5	2.4	2.5	2.3	18	4.5	3.3	1.4	.26	.22
9	1.5	2.0	e2.3	2.3	2.2	2.0	32	4.1	2.8	1.3	.26	.20
10	1.4	9.3	e2.1	2.2	e4.9	2.2	52	3.9	2.4	1.0	.94	.23
11	1.4	14	e2.0	2.2	e4.6	2.0	43	3.6	3.7	.93	.77	.32
12	1.3	7.8	2.6	2.0	e3.8	2.0	53	3.1	12	.81	.52	.19
13	1.2	4.9	2.3	2.0	2.9	2.2	66	2.8	6.0	.73	.55	.18
14	1.2	5.8	2.0	2.0	2.6	2.3	55	2.3	4.0	.67	.45	.28
15	1.3	16	1.8	2.0	3.1	2.6	46	2.2	3.1	.61	.36	.24
16	1.8	8.2	1.8	2.0	2.9	3.3	39	2.8	2.4	.53	.32	.19
17	2.8	5.9	51	2.0	2.7	3.6	36	2.8	6.5	1.1	.30	.17
18	3.8	4.6	29	1.7	e2.7	3.6	32	2.5	6.4	.85	.29	.17
19	6.8	3.9	12	1.8	e2.6	3.5	26	2.4	3.5	.69	.26	.15
20	3.9	3.5	e8.7	1.7	2.4	3.9	29	2.1	2.9	.55	.27	.18
21	2.7	3.2	e7.0	1.7	2.4	4.6	43	1.9	3.3	.44	.32	2.3
22	2.1	3.0	5.7	e1.7	e2.4	e4.0	75	2.9	3.2	.39	.31	.99
23	1.8	2.7	4.7	e1.7	e2.3	33	48	3.3	4.1	.33	.22	.49
24	1.7	2.3	e4.8	1.7	2.2	19	39	2.7	5.0	e.48	.20	.39
25	1.4	2.4	e4.4	1.7	2.6	14	24	2.1	3.3	e.41	.16	3.7
26	1.3	4.4	e4.1	1.5	3.0	e11	18	1.9	2.3	e2.8	.15	2.2
27	1.3	9.3	e3.9	1.5	2.7	e9.5	15	2.4	1.9	e1.2	.16	.93
28	1.3	6.7	e3.7	1.6	2.3	e8.4	13	5.2	1.5	e.75	.15	.69
29	1.3	5.3	e3.5	1.7	---	8.0	11	6.6	1.2	e.60	.13	.60
30	1.6	4.6	e3.5	2.0	---	e11	9.8	3.8	1.1	e.50	.12	.49
31	2.5	---	e3.9	3.2	---	e15	---	2.9	---	.41	.14	---
TOTAL	62.60	147.2	191.3	69.1	81.3	225.8	887.9	122.6	160.7	33.28	10.18	19.58
MEAN	2.02	4.91	6.17	2.23	2.90	7.28	29.6	3.95	5.36	1.07	.33	.65
MAX	6.9	16	51	3.7	5.8	40	75	9.2	24	3.2	.94	3.7
MIN	.39	1.9	1.8	1.5	2.2	2.0	6.5	1.9	1.1	.33	.12	.15
CFSM	.56	1.36	1.71	.62	.81	2.02	8.22	1.10	1.49	.30	.09	.18
IN.	.65	1.52	1.98	.71	.84	2.33	9.17	1.27	1.66	.34	.11	.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2001, BY WATER YEAR (WY)

	4.43	7.55	8.34	7.19	6.96	14.1	19.1	9.19	4.98	1.85	1.45	1.67
MEAN	4.43	7.55	8.34	7.19	6.96	14.1	19.1	9.19	4.98	1.85	1.45	1.67
MAX	22.9	18.9	29.4	37.2	19.0	30.9	38.9	28.6	17.1	7.26	6.51	10.2
(WY)	1997	1996	1997	1999	1970	1983	1987	1984	1968	1968	1986	1999
MIN	.34	.65	1.34	1.09	1.59	3.65	4.10	2.64	.66	.28	.18	.11
(WY)	1965	1979	1979	1977	1977	1989	1985	1985	1964	1966	1966	1964

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1963 - 2001

ANNUAL TOTAL	2495.20	2011.54	
ANNUAL MEAN	6.82	5.51	
HIGHEST ANNUAL MEAN			7.25
LOWEST ANNUAL MEAN			10.9
HIGHEST DAILY MEAN	74	Apr 22	75
LOWEST DAILY MEAN	.39	Oct 1	.12
ANNUAL SEVEN-DAY MINIMUM	.50	Sep 6	.14
MAXIMUM PEAK FLOW		169	Dec 17
MAXIMUM PEAK STAGE		4.11	Dec 17
INSTANTANEOUS LOW FLOW		b .11	Aug 29
ANNUAL RUNOFF (CFSM)	1.89		1.53
ANNUAL RUNOFF (INCHES)	25.78		20.79
10 PERCENT EXCEEDS	16		12
50 PERCENT EXCEEDS	3.7		2.4
90 PERCENT EXCEEDS	.82		.34
			7.25
			10.9
			2.58
			343
			.05
			.07
			648
			a 7.81
			c .00
			2.01
			27.34
			17
			3.5
			.45

a Ice Jam. Also occurred on December 21, 1973.

b Also occurred on August 30.

c No flow for part of September 26, 1976.

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 sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair, and those for May 29 to June 1, 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)
Mar. 23	1545	* 1,170	* 11.75	Apr. 13	0215	441	9.01
Mar. 31	1800	420	8.91				

Minimum discharge, 1.2 ft³/s, August 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	30	51	51	59	47	384	57	34	15	6.5	5.6
2	6.3	26	47	48	58	44	329	56	83	31	6.3	4.9
3	6.7	22	e39	46	54	41	299	53	185	26	28	4.8
4	7.6	20	e36	e44	47	38	294	50	173	22	115	4.9
5	6.0	21	e34	43	47	37	303	46	126	20	85	4.8
6	17	31	e32	44	e49	38	330	41	89	11	50	4.1
7	22	29	e29	43	53	53	341	38	66	14	31	4.0
8	16	25	e27	42	49	55	363	36	55	18	23	3.8
9	13	22	e27	42	48	53	379	34	44	22	20	3.6
10	11	32	e26	37	57	53	417	32	35	15	20	3.4
11	11	102	e27	39	57	50	424	31	27	9.0	16	3.5
12	9.5	83	e24	37	57	51	415	30	66	10	17	3.1
13	8.5	61	e27	34	57	59	428	29	63	11	18	2.8
14	7.8	44	30	35	52	78	378	23	50	11	15	3.8
15	7.9	82	30	34	56	82	314	23	41	10	13	3.0
16	8.6	81	e28	34	54	96	264	24	38	11	11	2.6
17	16	70	97	34	53	102	229	23	53	14	11	2.6
18	17	66	304	33	46	112	204	23	134	18	10	2.4
19	29	61	297	33	48	126	179	23	88	17	8.8	2.4
20	38	55	230	34	46	138	159	23	61	14	8.1	2.6
21	34	52	e157	33	46	151	140	22	49	12	8.0	4.0
22	32	48	e118	33	41	433	137	21	44	11	6.7	3.4
23	29	45	e100	32	43	1110	124	21	42	9.4	6.2	3.1
24	28	39	e82	32	39	974	113	21	44	8.1	5.9	3.1
25	28	e27	e69	31	39	757	88	21	49	7.5	5.4	5.4
26	28	31	e57	31	51	564	94	20	42	8.9	5.1	5.3
27	27	77	e53	30	56	441	84	85	36	10	5.0	5.3
28	24	72	e50	30	53	359	77	122	32	10	4.7	5.0
29	21	59	e45	30	---	318	71	73	29	8.9	4.3	4.7
30	20	52	e41	31	---	321	65	44	19	8.0	4.6	4.1
31	23	---	e45	44	---	401	---	40	---	6.9	4.0	---
TOTAL	559.7	1465	2259	1144	1415	7182	7426	1185	1897	419.7	572.6	116.1
MEAN	18.1	48.8	72.9	36.9	50.5	232	248	38.2	63.2	13.5	18.5	3.87
MAX	38	102	304	51	59	1110	428	122	185	31	115	5.6
MIN	6.0	20	24	30	39	37	65	20	19	6.9	4.0	2.4
CFSM	.38	1.02	1.52	.77	1.06	4.85	5.18	.80	1.32	.28	.39	.08
IN.	.44	1.14	1.76	.89	1.10	5.59	5.78	.92	1.48	.33	.45	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	44.4	72.3	92.6	83.6	92.3	155	169	89.2	51.8	20.3	20.9	19.9			
MAX	186	148	228	223	181	281	406	145	241	50.2	80.1	86.5			
(WY)	1997	1996	1987	1996	1996	1994	1987	1989	1998	1998	1991	1991			
MIN	5.15	15.4	15.8	27.5	41.4	56.5	56.9	34.4	7.27	3.53	1.52	2.71			
(WY)	1998	1999	1999	1989	1987	1989	1999	1999	1999	1993	1999	1997			

SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1987 - 2001
ANNUAL TOTAL	26988.6	25641.1	
ANNUAL MEAN	73.7	70.2	75.8
HIGHEST ANNUAL MEAN			99.9
LOWEST ANNUAL MEAN			41.9
HIGHEST DAILY MEAN	664	1110	1500
LOWEST DAILY MEAN	4.6	a 2.4	.83
ANNUAL SEVEN-DAY MINIMUM	6.2	2.8	.92
MAXIMUM PEAK FLOW		1170	1850
MAXIMUM PEAK STAGE		11.75	12.94
INSTANTANEOUS LOW FLOW		1.2	b .60
ANNUAL RUNOFF (CFSM)	1.54	1.47	1.59
ANNUAL RUNOFF (INCHES)	21.00	19.95	21.55
10 PERCENT EXCEEDS	167	153	170
50 PERCENT EXCEEDS	40	34	47
90 PERCENT EXCEEDS	11	5.5	6.1

a Also occurred September 19.
b Also occurred September 5, 8, 1999.
e Estimated.

MERRIMACK RIVER BASIN

01100505 SPICKET RIVER, AT ISLAND POND ROAD, AT NORTH SALEM, NH

LOCATION.--Lat 42°50'57", long 71°12'56", Rockingham County, Hydrologic Unit 01070002, on right bank, 70 ft downstream from Old State Highway 111 bridge (Haverhill Road), at Cowbell Corners, 0.9 mi northeast of North Salem, 3.4 mi northwest of Atkinson, and 6.1 mi southeast of Derry.

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 sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges and those below 1.5 ft³/s, which are fair, and those for February 6 and March 6, which are poor. Flows regulated by Island Pond 0.7 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 235 ft³/s, October 16, gage-height, 5.46 ft; minimum daily discharge, 0.25 ft³/s, June 10.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	24	23	25	15	16	143	1.0	.44	.82	.78	1.3
2	---	21	22	23	16	16	138	.90	2.5	1.1	.74	.98
3	---	18	20	21	16	16	132	.86	2.2	.56	2.0	1.0
4	---	16	19	20	e17	15	127	1.1	1.2	.44	8.0	1.1
5	---	17	19	e18	e16	15	123	1.2	.74	.54	1.5	.94
6	2.6	17	19	19	e20	e21	122	1.3	.52	.61	1.1	.90
7	1.4	15	18	18	20	21	121	1.4	.40	.50	1.0	.88
8	1.1	14	17	17	19	20	122	1.6	.33	.67	1.1	.81
9	1.1	13	16	17	19	19	123	1.5	.27	.63	1.1	.76
10	1.1	17	15	e16	19	20	127	1.6	.25	.63	1.4	.74
11	1.1	22	14	e16	e20	19	129	1.5	1.1	.65	1.1	.70
12	1.0	24	14	e16	e19	18	132	1.4	2.7	.66	1.6	.65
13	1.1	24	e14	e15	19	19	134	1.3	.88	.87	1.3	.68
14	1.1	26	14	e14	18	21	132	1.4	.51	.93	1.1	1.1
15	1.1	30	15	14	19	21	127	1.5	.38	.85	1.1	.78
16	139	29	14	14	19	23	121	1.4	.66	.63	1.1	.77
17	209	29	26	14	19	25	52	.89	1.9	1.0	1.4	.69
18	179	27	45	e14	e18	28	3.0	.75	1.7	.86	1.3	.59
19	164	25	58	14	e17	30	2.4	.61	.75	.86	1.3	.73
20	145	23	65	14	17	33	2.0	.61	.59	.86	1.4	.73
21	126	21	63	e14	17	38	1.7	.55	.61	.84	1.6	1.6
22	111	20	60	e13	e16	90	1.6	.45	.74	.82	1.4	.99
23	94	18	55	e13	16	137	1.6	.50	.70	.77	1.4	.85
24	78	17	50	e13	e16	160	1.3	.46	.74	.80	1.4	.90
25	66	15	e45	13	15	167	1.1	.38	.65	.81	1.3	1.6
26	56	18	e39	e12	17	166	1.1	.36	.64	1.3	1.3	1.1
27	47	21	34	e12	17	161	.94	1.8	.68	1.0	1.3	1.0
28	41	22	30	e11	17	155	.94	1.1	.52	.89	1.3	1.0
29	33	23	27	e11	---	147	.89	.83	.46	.84	1.2	.86
30	28	23	26	e12	---	146	.97	.60	.61	.85	1.2	.76
31	27	---	29	14	---	147	---	.64	---	.87	1.2	---
TOTAL	1555.7	629	925	477	493	1930	2124.54	31.49	26.37	24.46	46.02	27.49
MEAN	59.8	21.0	29.8	15.4	17.6	62.3	70.8	1.02	.88	.79	1.48	.92
MAX	209	30	65	25	20	167	143	1.8	2.7	1.3	8.0	1.6
MIN	1.0	13	14	11	15	15	.89	.36	.25	.44	.74	.59

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

MEAN	---	21.0	29.8	15.4	17.6	62.3	70.8	1.02	.88	.79	1.48	.92
MAX	---	21.0	29.8	15.4	17.6	62.3	70.8	1.02	.88	.79	1.48	.92
(WY)	---	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
MIN	---	21.0	29.8	15.4	17.6	62.3	70.8	1.02	.88	.79	1.48	.92
(WY)	---	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS

FOR 2001 WATER YEAR

HIGHEST DAILY MEAN	209	Oct 17
LOWEST DAILY MEAN	.25	Jun 10
ANNUAL SEVEN-DAY MINIMUM	.47	May 20
MAXIMUM PEAK FLOW	235	Oct 16
MAXIMUM PEAK STAGE	5.46	Oct 16
10 PERCENT EXCEEDS	66	
50 PERCENT EXCEEDS	12	
90 PERCENT EXCEEDS	.65	

e Estimated.