

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).
&	Biological organism estimated as dominant.
V	Analyte was detected in both the environmental sample and the associated blanks.

Dissolved Trace-Element Concentrations

***NOTE.--**Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (ug/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 ug/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

01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, NH

LOCATION.--Lat 44°52'40", long 71°03'25" Coos County, Hydrologic Unit 01040001, on left bank 1.0 mi upstream from mouth and 1.6 mi north of Wentworth Location.

DRAINAGE AREA.--152 mi².

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

Water-quality records: Water year 1954.

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

GAGE.--Water-stage recorder. Elevation of gage is 1,259.48 ft above sea level.

REMARKS.--Records good except for periods of ice effect, Nov. 15 to Mar. 27, which are fair. Satellite gage-height telemeter at station.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 31	1900	* 12,800	* 12.11	June 16	1700	3,980	7.85

Minimum discharge, 43 ft³/s, September 24, gage height, 1.95 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	390	334	e118	e80	e85	e200	7500	299	635	701	88	48
2	298	1410	e111	e78	e84	e400	3420	344	272	470	77	46
3	254	2060	e125	e76	e82	e360	2170	452	221	311	70	66
4	204	978	e149	e120	e80	e250	1350	362	281	242	65	160
5	218	1350	e147	e170	e79	e200	872	348	211	440	60	121
6	242	779	e139	e190	e78	e168	667	776	179	354	56	78
7	180	526	e134	e188	e77	e156	642	1140	181	235	53	101
8	149	410	e130	e178	e75	e150	889	665	384	196	53	96
9	134	366	e127	e170	e74	e165	1120	753	377	173	51	104
10	126	602	e123	e161	e73	e650	1100	523	229	642	47	158
11	115	477	e119	e152	e72	e720	867	449	178	1510	829	106
12	109	349	e114	e149	e120	e560	858	341	144	1020	518	79
13	105	284	e110	e142	e425	e440	1020	284	281	499	198	76
14	101	220	e107	e137	e490	e340	1110	249	1700	348	128	69
15	99	e210	e130	e130	e390	e280	1040	222	1550	258	100	63
16	100	e200	e158	e125	e270	e240	1040	198	1990	211	117	64
17	100	e185	e156	e120	e200	e232	1400	180	2500	228	161	60
18	94	e174	e148	e118	e172	e211	1480	167	1150	294	105	54
19	91	e162	e141	e113	e161	e193	908	148	1260	199	88	51
20	89	e159	e132	e110	e170	e180	1240	135	749	160	76	49
21	87	e158	e128	e108	e160	e171	1270	125	798	167	70	67
22	88	e155	e119	e104	e151	e167	832	119	454	143	70	55
23	88	e152	e115	e100	e142	e160	645	118	332	133	64	49
24	93	e150	e109	e98	e140	e155	656	108	261	182	61	45
25	90	e132	e103	e96	e142	e145	638	99	219	134	69	44
26	93	e143	e98	e95	e140	e150	565	89	349	110	76	43
27	109	e160	e95	e93	e143	e500	438	81	1070	100	68	87
28	147	e148	e92	e91	e153	2370	392	76	944	94	57	174
29	148	e138	e89	e90	---	4420	356	75	427	134	52	139
30	139	e126	e86	e88	---	4790	316	162	615	149	54	92
31	169	---	e84	e87	---	9900	---	120	---	107	52	---
TOTAL	4449	12697	3736	3757	4428	29023	36801	9207	19941	9944	3633	2444
MEAN	144	423	121	121	158	936	1227	297	665	321	117	81.5
MAX	390	2060	158	190	490	9900	7500	1140	2500	1510	829	174
MIN	87	126	84	76	72	145	316	75	144	94	47	43
CFSM	.94	2.78	.79	.80	1.04	6.16	8.07	1.95	4.37	2.11	.77	.54
IN.	1.09	3.11	.91	.92	1.08	7.10	9.01	2.25	4.88	2.43	.89	.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1998, BY WATER YEAR (WY)

	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
MEAN	267	338	227	170	151	291	1067	933	320	170	140	148																																														
MAX	869	733	739	575	783	936	1591	2115	804	703	492	836																																														
(WY)	1991	1964	1974	1995	1981	1998	1954	1972	1943	1996	1988	1954																																														
MIN	40.9	83.2	53.4	53.9	43.4	54.6	403	297	105	35.1	15.0	16.8																																														
(WY)	1953	1979	1979	1948	1942	1967	1972	1998	1963	1952	1952	1952																																														

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1941 - 1998
ANNUAL TOTAL	136480	140060	
ANNUAL MEAN	374	384	352
HIGHEST ANNUAL MEAN			524
LOWEST ANNUAL MEAN			225
HIGHEST DAILY MEAN	3920	May 2	9900
LOWEST DAILY MEAN	45	Aug 8	43
ANNUAL SEVEN-DAY MINIMUM	65	Jul 27	50
INSTANTANEOUS PEAK FLOW			12800
INSTANTANEOUS PEAK STAGE			12.11
INSTANTANEOUS LOW FLOW			43
ANNUAL RUNOFF (CFSM)	2.46	2.52	2.32
ANNUAL RUNOFF (INCHES)	33.40	34.28	31.49
10 PERCENT EXCEEDS	1090	869	850
50 PERCENT EXCEEDS	180	155	159
90 PERCENT EXCEEDS	94	74	51

e Estimated.

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. Water-quality records: Water years 1955, 1958.

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, Azisochos, and Umbagog Lakes, combined usable capacity, 28 billion ft³, with final regulation at Errol Dam, 0.4 mi upstream. Satellite gage-height telemeter at station.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,000 ft³/s, April 1, gage height, 8.49 ft; minimum daily discharge, 929 ft³/s, November 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1850	1100	1480	1460	2010	2180	12000	2130	1610	4930	2250	1750
2	1910	1100	1550	1490	1990	2180	11900	1970	1520	4870	2250	1680
3	1910	929	1620	1440	1990	1970	10200	1970	1430	3760	2250	1650
4	1910	985	1650	1410	2100	1880	7400	1850	1310	3270	2250	1630
5	1910	1410	1590	1360	2190	1880	4350	1780	1570	3490	2250	1640
6	1760	1980	1570	1250	2190	1950	2590	1790	1420	3770	1850	1640
7	1630	2070	1570	1190	2190	1980	2470	2220	1410	3400	1950	1640
8	1770	2070	1570	1160	2190	1980	2450	2440	1410	3050	2270	1640
9	1720	2060	1520	1240	2190	2020	2450	2440	1420	2600	2270	1640
10	1710	1670	1480	1250	2190	2040	2450	2440	1420	2450	2270	1640
11	1700	1490	1480	1190	2190	2050	2450	2440	1360	3190	2090	1640
12	1700	1480	1480	1270	2190	2050	2450	2440	1420	3810	2000	1640
13	1700	1520	1480	1310	2190	2050	2440	2440	1420	3800	2000	1640
14	1570	1660	1480	1310	2190	2050	2440	2040	2610	3290	2000	1640
15	1490	1710	1430	1310	2190	2040	2440	2030	6010	2450	2180	1640
16	1490	1710	1390	1310	2190	2190	2130	2030	7740	2450	2270	1640
17	1500	1710	1390	1310	2190	2500	1990	2030	8850	2150	2270	1640
18	1490	1710	1390	1350	2190	2500	2290	2030	8870	2300	2270	1570
19	1500	1770	1330	1360	2190	2500	2430	2030	6790	2450	2270	1530
20	1450	1780	1300	1420	2190	2500	2440	2030	4880	2220	2270	1530
21	1410	1780	1300	1490	2190	2500	2440	2030	3640	2140	2270	1450
22	1410	1780	1310	1560	2190	2510	2830	1800	3640	2270	2260	1470
23	1390	1790	1380	1600	2190	2510	2870	1720	3340	2340	2260	1480
24	1370	1790	1400	1620	2190	2510	3110	1730	3280	2330	2230	1480
25	1350	1620	1400	1630	2190	2510	3500	1730	3060	2330	2260	1470
26	1320	1500	1400	1630	2190	2510	3660	1730	2960	2330	2260	1460
27	1230	1390	1400	1770	2190	2510	3660	1520	3550	2320	2250	1390
28	1160	1480	1400	1830	2190	2010	3650	1420	4630	2270	2250	1440
29	1170	1480	1400	1840	---	1770	3650	1420	4900	2250	2250	1460
30	1120	1480	1400	1950	---	2230	2820	1420	4290	2250	2250	1460
31	1100	---	1400	2010	---	6370	---	1420	---	2250	1900	---
TOTAL	47700	48004	44940	45320	60650	72430	113950	60240	101760	88780	67920	47220
MEAN	1539	1600	1450	1462	2166	2336	3798	1943	3392	2864	2191	1574
MAX	1910	2070	1650	2010	2190	6370	12000	2440	8870	4930	2270	1750
MIN	1100	929	1300	1160	1990	1770	1990	1420	1310	2140	1850	1390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 1998, BY WATER YEAR (WY)

MEAN	1588	1548	1702	1788	1852	1857	2139	3095	2280	1788	1690	1689
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 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1905 - 1998	
ANNUAL TOTAL	752454		798914			
ANNUAL MEAN	2062		2189		1917	
HIGHEST ANNUAL MEAN					3117	
LOWEST ANNUAL MEAN					1046	
HIGHEST DAILY MEAN	4810		12000		16100	
LOWEST DAILY MEAN	929		929		a .00	
ANNUAL SEVEN-DAY MINIMUM	1070		1070		152	
INSTANTANEOUS PEAK FLOW			13000		16500	
INSTANTANEOUS PEAK STAGE			8.49		9.40	
10 PERCENT EXCEEDS	2920		3140		2630	
50 PERCENT EXCEEDS	1990		1970		1700	
90 PERCENT EXCEEDS	1480		1390		1130	

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, Aziscohos, and Umbagog Lakes. These reservoirs have a combined usable capacity of about 28.1 billion ft³ with final regulation at Errol Dam 35 mi upstream. Diurnal fluctuations caused by powerplant 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, 20,400 ft³/s, April 1, gage height, 10.15 ft; minimum daily discharge, 1,340 ft³/s, October 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2150	1420	1810	1490	2330	2680	19900	3160	2120	5540	2540	1880
2	2110	3200	1710	1680	2300	2870	18600	2890	2310	7370	2570	1880
3	2080	4220	1830	1820	2280	2890	15400	2830	1610	5160	2470	1900
4	2040	2480	2030	1780	2300	2580	11900	2650	1710	4260	2420	1820
5	2160	2360	2040	1790	2450	2490	8570	2500	1790	4770	2310	1820
6	2230	2990	1950	1820	2430	2440	4450	2860	1860	5150	2290	1830
7	2000	2960	1890	1960	2440	2480	3400	3610	1720	4430	1710	1800
8	1870	2780	1890	2370	2450	2450	3870	3520	1720	3670	2370	1820
9	1800	2800	1810	3240	2440	2560	4000	3360	2220	3340	2400	1860
10	1970	3030	1760	2630	2440	3420	4030	3240	2040	3340	2500	2010
11	1950	2310	1710	2200	2430	3630	3820	3190	1910	4730	2770	1950
12	1920	2100	1720	1870	2480	3110	3640	3040	1930	5860	2920	1840
13	1830	2050	1770	1910	2600	2870	3620	2850	1870	4980	2410	1740
14	1790	2070	1730	1810	2650	2900	3640	2610	4370	4410	2160	1750
15	1580	2180	1620	1590	2530	2670	3600	2510	7910	3300	2300	1780
16	1660	2150	1680	1810	2560	2570	3520	2380	9890	2990	2350	1820
17	1720	2100	1650	1790	2510	2870	3770	2290	12800	2730	2600	1810
18	1710	2010	1650	1680	2490	2900	4020	2280	11400	2760	2620	1810
19	1690	2060	1610	1740	2490	2930	3840	2280	9750	2940	2390	1740
20	1640	2150	1560	1780	2490	2890	4150	2290	7000	2910	2410	1630
21	1570	2140	1520	1850	2490	2850	4390	2280	5360	2420	2380	1670
22	1550	2150	1440	1800	2490	2880	3990	2160	4320	2370	2390	1710
23	1540	2160	1510	1830	2500	2840	3760	1940	4140	2750	2390	1670
24	1550	2170	1640	1950	2530	2820	4030	1880	3810	2870	2430	1660
25	1520	2090	1640	2010	2620	2790	4460	1820	3190	2770	2460	1610
26	1510	1990	1650	1890	2640	2830	4770	1840	3110	2630	2520	1570
27	1530	2000	1650	1900	2580	3240	4490	1810	4310	2570	2530	1590
28	1460	1920	1640	2190	2580	5000	4300	1560	5880	2560	2440	1870
29	1420	1870	1550	2120	---	7280	4160	1600	5790	2560	2360	2070
30	1400	1820	1670	2150	---	8560	3960	1670	5270	2450	2370	1980
31	1340	---	1610	2310	---	14200	---	1650	---	2380	2270	---
TOTAL	54290	69730	52940	60760	69520	111490	174050	76550	133110	112970	75050	53890
MEAN	1751	2324	1708	1960	2483	3596	5802	2469	4437	3644	2421	1796
MAX	2230	4220	2040	3240	2650	14200	19900	3610	12800	7370	2920	2070
MIN	1340	1420	1440	1490	2280	2440	3400	1560	1610	2370	1710	1570

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 1998, BY WATER YEAR (WY)

	2051	2104	2143	2147	2164	2499	3919	4280	2821	2098	1942	1977
MEAN	2051	2104	2143	2147	2164	2499	3919	4280	2821	2098	1942	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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1914 - 1998
ANNUAL TOTAL	980080	1044350	
ANNUAL MEAN	2685	2861	2517
HIGHEST ANNUAL MEAN			4147
LOWEST ANNUAL MEAN			1689
HIGHEST DAILY MEAN	7840	Apr 19	19900
LOWEST DAILY MEAN	1340	Oct 31	1340
ANNUAL SEVEN-DAY MINIMUM	1440	Oct 26	1440
INSTANTANEOUS PEAK FLOW		20400	Apr 1
INSTANTANEOUS PEAK STAGE		10.15	Apr 1
10 PERCENT EXCEEDS	4070	4310	3740
50 PERCENT EXCEEDS	2430	2370	2020
90 PERCENT EXCEEDS	1700	1650	1600

01064300 ELLIS RIVER NEAR JACKSON, NH

LOCATION.--Lat 44°13'12", long 71°15'00", 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 those for estimated daily discharges, which are poor.

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)
Nov. 2	2015	1,360	5.10	May 6	0615	895	4.31
Mar. 9	2215	403	3.18	June 14	1330	* 2,050	* 6.20
Mar. 29	1330	506	3.48	June 16	1015	1,930	6.03
Mar. 31	1545	656	3.83				

Minimum daily discharge, Dec. 29, Jan. 1-2, Feb. 7-11, Mar. 25, and Sept. 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	59	18	e10	e11	19	210	49	23	89	15	11
2	20	569	e20	e10	e11	19	140	128	20	56	15	14
3	18	200	e20	e11	e11	20	87	98	21	39	15	19
4	18	90	18	e14	e11	18	58	78	20	34	15	14
5	26	96	18	e14	e11	17	44	166	19	72	14	13
6	21	55	18	e20	e11	15	39	531	18	45	14	12
7	18	44	17	e39	e10	15	40	177	19	35	14	13
8	16	37	e16	e160	e10	15	42	92	21	32	14	15
9	16	114	e15	99	e10	102	46	71	21	29	13	15
10	15	127	e15	39	e10	212	43	74	21	32	15	18
11	14	59	e15	25	e10	e58	36	68	19	154	25	15
12	14	44	e15	e20	e30	e35	37	52	19	71	32	14
13	14	35	e16	e22	25	e32	40	45	570	48	19	13
14	14	34	e15	e19	e19	e26	43	41	1070	38	16	13
15	14	32	e13	e19	e18	e24	46	39	346	33	15	13
16	14	29	e14	e18	e18	e21	60	37	718	30	15	16
17	14	29	e13	e17	e15	e18	159	36	162	28	15	13
18	13	26	e13	e17	e14	e17	98	34	79	27	14	13
19	13	25	e13	e16	e13	16	59	32	59	24	13	12
20	13	24	e12	e15	e13	e15	77	30	48	25	13	12
21	13	24	e12	e14	13	e14	57	29	41	23	13	12
22	13	23	e12	e14	13	e14	48	28	36	22	13	12
23	12	22	e11	e14	13	e13	45	26	33	22	12	12
24	12	21	e11	e14	16	e12	54	24	31	22	17	11
25	12	24	e12	e13	18	e10	49	23	29	20	18	11
26	12	23	e12	e13	15	e13	40	22	27	19	15	10
27	16	e21	e11	e13	15	182	35	21	90	18	13	17
28	15	e23	e11	e12	16	341	32	21	48	17	13	17
29	13	22	e10	e12	---	351	31	21	35	18	13	13
30	14	19	e11	e11	---	239	37	21	31	17	13	13
31	14	---	e11	e11	---	442	---	20	---	16	12	---
TOTAL	478	1950	438	745	400	2345	1832	2134	3694	1155	473	406
MEAN	15.4	65.0	14.1	24.0	14.3	75.6	61.1	68.8	123	37.3	15.3	13.5
MAX	27	569	20	160	30	442	210	531	1070	154	32	19
MIN	12	19	10	10	10	10	31	20	18	16	12	10
CFSM	1.41	5.96	1.30	2.20	1.31	6.94	5.60	6.32	11.3	3.42	1.40	1.24
IN.	1.63	6.66	1.49	2.54	1.37	8.00	6.25	7.28	12.61	3.94	1.61	1.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1998, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998			
MEAN	30.6	36.6	24.8	17.9	15.6	27.0	69.7	84.6	43.6	23.8	20.0	18.2																										
MAX	80.9	90.1	104	57.6	109	75.6	150	159	123	60.5	62.5	41.7																										
(WY)	1996	1970	1974	1986	1981	1998	1987	1984	1998	1996	1990	1981																										
MIN	9.15	9.29	6.54	4.34	3.07	6.05	23.1	45.7	16.1	10.5	7.46	6.98																										
(WY)	1970	1979	1979	1977	1977	1969	1995	1993	1970	1980	1980	1978																										

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1964 - 1998	
ANNUAL TOTAL	13648.5		16050			
ANNUAL MEAN	37.4		44.0		34.6	
HIGHEST ANNUAL MEAN					53.0	
LOWEST ANNUAL MEAN					21.6	
HIGHEST DAILY MEAN	569	Nov 2	1070	Jun 14	1160	Jun 30 1973
LOWEST DAILY MEAN	9.7	Feb 17	a 10	Dec 29	b 2.2	Mar 2 1980
ANNUAL SEVEN-DAY MINIMUM	10	Feb 12	10	Feb 5	c 2.3	Mar 1 1980
INSTANTANEOUS PEAK FLOW			c 2050	Jun 14	c 4500	Nov 3 1966
INSTANTANEOUS PEAK STAGE			6.20	Jun 14	d 18.90	Nov 3 1966
ANNUAL RUNOFF (CFSM)	3.43		4.03		3.17	
ANNUAL RUNOFF (INCHES)	46.58		54.78		43.13	
10 PERCENT EXCEEDS	82		77		70	
50 PERCENT EXCEEDS	20		19		18	
90 PERCENT EXCEEDS	12		12		8.2	

a Also occurred on Jan. 1-2, Feb. 7-11, and Mar. 25.

b Also 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.

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 for periods of ice effect, Dec. 10 to Jan. 5 and Jan. 12 to Feb. 24, 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)
Nov. 3	0445	12,300	9.03	May 6	1700	12,200	9.00
Mar. 31	2315	14,300	9.54	June 14	2145	* 36,500	* 14.67

Minimum discharge, 173 ft³/s, September 26-27, gage height, 2.26 ft, but may have been less during period of ice effect.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	359	337	561	e196	e350	1160	9620	1260	535	2950	333	205
2	314	7040	512	e195	e345	1170	6190	1810	509	2890	316	199
3	279	7400	502	e225	e346	1270	4640	2690	488	1860	298	269
4	269	2650	492	e300	e345	1280	3660	1810	489	1470	290	294
5	310	2480	502	e360	e330	1180	2810	2220	452	1930	277	237
6	409	1690	501	462	e325	1070	2340	7370	426	1830	266	213
7	329	1320	475	648	e320	1020	2230	6720	409	1360	265	207
8	280	1120	456	1400	e310	946	2260	3660	434	1210	269	216
9	259	1320	394	1980	e305	1460	2280	2660	515	1100	258	214
10	249	3970	e365	1260	e300	6130	2300	2300	520	1000	248	259
11	234	2060	e343	1060	e292	3570	2000	2770	459	1080	278	283
12	226	1500	e340	e850	e470	2190	1850	2040	404	1340	638	233
13	222	1250	e328	e740	e1160	1720	1880	1700	3430	989	621	211
14	220	1110	e305	e665	e833	1560	1960	1490	25900	861	412	198
15	220	1050	e285	e610	e602	1400	1950	1340	15500	757	340	191
16	222	970	e278	e580	e560	1230	2040	1230	15300	689	304	225
17	219	876	e279	e550	e505	1120	3420	1130	11400	647	283	250
18	215	812	e280	e520	e475	1060	3450	1060	5200	622	276	212
19	212	764	e279	e496	e490	1040	2450	976	4350	553	261	192
20	207	727	e260	e470	e495	972	3170	905	3200	524	245	184
21	203	686	e231	e450	e480	908	2720	843	2810	526	235	178
22	201	697	e225	e435	e450	885	2150	784	2140	482	228	190
23	197	667	e220	e418	e420	869	1880	751	1820	464	224	204
24	194	631	e216	e430	e470	807	1970	689	1570	610	226	190
25	194	564	e228	e480	e570	764	1920	644	1490	490	289	178
26	195	583	e248	e425	1270	767	1700	601	1330	435	415	173
27	225	736	e260	e395	1030	1280	1450	546	2550	412	317	206
28	378	628	e245	e370	1040	5290	1300	515	2610	394	261	317
29	331	617	e210	e365	---	7660	1200	491	1670	369	237	290
30	280	546	e238	e360	---	7120	1190	483	1400	358	225	238
31	265	---	e210	e355	---	10300	---	459	---	350	216	---
TOTAL	7917	46801	10268	18050	15888	69198	79980	53947	109310	30552	9351	6656
MEAN	255	1560	331	582	567	2232	2666	1740	3644	986	302	222
MAX	409	7400	561	1980	1570	10300	9620	7370	25900	2950	638	317
MIN	194	337	210	195	292	764	1190	459	404	350	216	173
CFSM	.66	4.05	.86	1.51	1.47	5.80	6.92	4.52	9.46	2.56	.78	.58
IN.	.76	4.52	.99	1.74	1.54	6.69	7.73	5.21	10.56	2.95	.90	.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1998, BY WATER YEAR (WY)

MEAN	641	961	762	576	512	960	2624	2249	852	444	360	379
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	129	102
(WY)	1948	1909	1956	1940	1940	1940	1995	1941	1964	1991	1936	1948

SUMMARY STATISTICS

FOR 1997 CALENDAR YEAR

FOR 1998 WATER YEAR

WATER YEARS 1904 - 1998

ANNUAL TOTAL	355780	457918	
ANNUAL MEAN	975	1255	
HIGHEST ANNUAL MEAN			944
LOWEST ANNUAL MEAN			1463
HIGHEST DAILY MEAN	11900	Apr 19	489
LOWEST DAILY MEAN	194	Oct 24	1965
ANNUAL SEVEN-DAY MINIMUM	199	Oct 20	33900
INSTANTANEOUS PEAK FLOW			Mar 19 1936
INSTANTANEOUS PEAK STAGE			Aug 4 1959
INSTANTANEOUS LOW FLOW			Aug 3 1959
ANNUAL RUNOFF (CFSM)	2.53		Mar 27 1953
ANNUAL RUNOFF (INCHES)	34.38		Mar 7 1979
10 PERCENT EXCEEDS	2200		Mar 16 1932
50 PERCENT EXCEEDS	561		
90 PERCENT EXCEEDS	240		

a Ice jam.

b Also on September 27.

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, 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 fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 3	0145	1,780	6.49	June 16	1230	4,550	8.68
Mar. 10	1515	1,650	6.41	June 19	0045	2,600	7.23
Mar. 31	2045	1,830	6.53	June 27	1345	1,280	6.28
May 6	1530	1,770	6.48	July 1	1300	1,080	6.03
June 14	1115	* 6,150	* 9.64				

Minimum discharge, 18 ft³/s, August 10, 11, September 14, 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	76	e105	e39	e62	382	1170	103	44	627	25	24
2	31	1080	e95	e39	e62	384	805	134	36	418	23	23
3	29	982	e92	e40	e62	411	631	192	43	251	21	53
4	29	465	88	e60	e62	399	475	156	40	183	20	47
5	55	434	93	e80	e60	360	349	217	35	371	19	33
6	71	295	96	e82	e58	292	281	1080	31	318	19	28
7	50	225	89	e120	e56	256	251	1000	30	212	20	25
8	39	188	82	e250	e54	223	232	541	35	171	20	24
9	35	238	70	e450	e53	435	221	351	52	139	19	23
10	33	474	e65	e280	e52	1510	205	310	43	116	18	22
11	30	303	e62	e180	e51	845	174	282	37	98	22	21
12	28	235	e60	e150	e115	e430	156	217	32	90	122	19
13	27	188	e57	e135	e360	e305	148	180	2060	77	119	18
14	27	166	e55	e115	e250	e255	144	154	5370	69	74	18
15	27	157	e55	e105	e205	227	138	133	2650	60	53	23
16	27	147	e50	e105	e180	195	139	117	3250	54	41	140
17	26	133	e49	e97	e170	174	297	105	2090	48	34	95
18	26	123	e50	e93	e165	164	308	95	1110	51	32	65
19	25	115	e49	e88	171	159	206	81	1740	44	28	49
20	25	109	e47	e87	e170	147	387	72	1410	64	24	40
21	24	102	e40	e85	163	137	308	62	664	77	22	35
22	23	107	e40	e76	140	122	223	49	451	59	21	39
23	23	104	e38	e70	128	136	189	44	320	54	21	45
24	23	100	e38	e75	136	120	207	39	264	72	26	35
25	24	89	e40	e78	447	112	198	37	203	56	68	31
26	53	92	e45	e75	374	118	172	34	200	45	96	29
27	58	163	e50	e71	357	278	148	32	849	39	64	31
28	75	e125	e48	e68	356	801	129	29	632	35	45	38
29	60	e111	e38	e64	---	1410	116	28	362	32	35	37
30	50	e109	e43	e63	---	1240	108	29	253	30	31	31
31	44	---	e40	e63	---	1490	---	27	---	28	27	---
TOTAL	1132	7235	1869	3383	4519	13517	8515	5930	24336	3988	1209	1141
MEAN	36.5	241	60.3	109	161	436	284	191	811	129	39.0	38.0
MAX	75	1080	105	450	447	1510	1170	1080	5370	627	122	140
MIN	23	76	38	39	51	112	108	27	30	28	18	18
CFSM	.54	3.57	.89	1.61	2.39	6.45	4.20	2.83	12.0	1.90	.58	.56
IN.	.62	3.98	1.03	1.86	2.49	7.44	4.69	3.26	13.39	2.19	.67	.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1998, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1993	1994	1995	1996	1997	1998
MEAN	119	194	175	156	145	221	468	210	188	90.4	43.6	34.3
MAX	258	302	410	331	242	436	632	398	811	178	91.0	64.7
(WY)	1996	1996	1997	1996	1997	1998	1993	1996	1996	1996	1997	1997
MIN	36.5	66.2	60.3	55.0	51.0	87.6	129	77.4	47.2	17.0	18.9	9.52
(WY)	1998	1995	1998	1994	1994	1994	1995	1993	1995	1995	1995	1995

SUMMARY STATISTICS

FOR 1997 CALENDAR YEAR

FOR 1998 WATER YEAR

WATER YEARS 1993 - 1998

ANNUAL TOTAL	61651	76774		
ANNUAL MEAN	169	210		
HIGHEST ANNUAL MEAN			173	
LOWEST ANNUAL MEAN			217	1996
HIGHEST DAILY MEAN	2390	Apr 19	94.6	1995
LOWEST DAILY MEAN	15	Aug 8	5370	Jun 14 1998
ANNUAL SEVEN-DAY MINIMUM	17	Aug 6	4.5	Sep 7 1995
INSTANTANEOUS PEAK FLOW			19	Aug 4 1995
INSTANTANEOUS PEAK STAGE			6150	Jun 14 1998
INSTANTANEOUS LOW FLOW			9.64	Jun 14 1998
ANNUAL RUNOFF (CFSM)	2.50		b 18	Aug 10
ANNUAL RUNOFF (INCHES)	33.93		3.11	
10 PERCENT EXCEEDS	432		42.25	
50 PERCENT EXCEEDS	80		374	
90 PERCENT EXCEEDS	27		71	
			18	

a Also occurred September 13, 14.
 b Also occurred August 11, September 14, 15.
 c Also occurred September 8, 1995.
 e Estimated.

PISCATAQUA RIVER BASIN

01072100 SALMON FALLS RIVER AT MILTON, NH

LOCATION.--Lat 43°24'48", long 70°59'15", Strafford County, Hydrologic Unit 01060003, on right bank, 200 ft downstream from Milton Pond Dam at Milton.

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 period February 25 to April 8, and June 27 to July 1, 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, 2,500 ft³/s, June 15, gage height, 5.94 ft; minimum daily discharge 31 ft³/s, September 23-26.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	179	109	98	119	495	759	164	79	288	56	65
2	37	181	109	98	116	474	690	165	91	343	50	60
3	37	198	109	98	113	473	622	168	96	444	47	58
4	38	216	108	98	112	479	558	169	94	395	43	55
5	38	219	109	98	111	479	479	174	90	335	40	51
6	43	211	108	98	107	456	372	321	82	287	43	48
7	91	202	108	99	105	421	331	674	78	251	46	47
8	121	192	108	103	103	395	211	820	77	221	46	46
9	136	187	107	155	102	486	143	698	76	146	44	45
10	159	185	107	224	101	1080	146	568	67	119	44	43
11	162	184	94	250	101	1300	154	483	62	123	44	42
12	168	182	84	245	103	1040	168	417	82	119	45	41
13	173	180	84	228	128	789	178	357	320	113	44	38
14	176	178	84	211	167	646	179	274	1650	98	46	38
15	180	178	84	189	174	562	128	236	2260	86	53	39
16	217	177	75	187	163	485	84	226	1930	85	59	37
17	232	144	65	172	153	422	85	213	2030	82	67	36
18	215	109	65	162	168	383	86	190	1660	79	78	36
19	190	109	65	155	241	378	87	124	1380	70	74	35
20	206	108	65	150	307	377	92	97	1140	72	65	35
21	217	108	65	142	324	366	135	82	1040	80	60	35
22	189	108	65	136	306	352	214	59	916	81	56	35
23	207	109	65	132	279	338	234	60	729	85	57	31
24	215	109	66	148	276	332	248	60	554	84	69	31
25	202	108	66	146	481	329	266	61	367	78	76	31
26	198	108	66	147	589	327	271	63	256	72	79	31
27	194	108	66	141	562	327	262	64	494	65	83	32
28	190	108	66	135	522	364	230	64	689	61	82	32
29	187	108	83	130	---	560	203	63	608	63	82	32
30	184	108	99	126	---	716	180	62	518	63	76	32
31	180	---	99	123	---	768	---	62	---	61	69	---
TOTAL	4819	4601	2653	4624	6133	16399	7795	7238	19515	4549	1823	1217
MEAN	155	153	85.6	149	219	529	260	233	651	147	58.8	40.6
MAX	232	219	109	250	589	1300	759	820	2260	444	83	65
MIN	37	108	65	98	101	327	84	59	62	61	40	31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1998, BY WATER YEAR (WY)

MEAN	176	197	229	182	194	313	438	229	138	68.6	61.4	76.1
MAX	499	487	604	384	439	720	908	431	651	181	165	145
(WY)	1978	1996	1984	1978	1970	1979	1969	1984	1998	1996	1982	1981
MIN	81.4	77.9	40.5	59.7	60.8	108	103	55.4	40.4	26.1	24.9	22.3
(WY)	1969	1987	1979	1977	1977	1993	1985	1985	1985	1991	1993	1993

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1969 - 1998
ANNUAL TOTAL	66306	81366	
ANNUAL MEAN	182	223	192
HIGHEST ANNUAL MEAN			307
LOWEST ANNUAL MEAN			98.6
HIGHEST DAILY MEAN	1850	2260	3220
LOWEST DAILY MEAN	29	a 31	18
ANNUAL SEVEN-DAY MINIMUM	30	31	20
INSTANTANEOUS PEAK FLOW		2500	4000
INSTANTANEOUS PEAK STAGE		5.94	6.70
10 PERCENT EXCEEDS	389	489	406
50 PERCENT EXCEEDS	143	121	135
90 PERCENT EXCEEDS	35	46	38

a Also occurred September 24-26.

01072800 COCHECO RIVER NEAR ROCHESTER, NH

LOCATION.--Lat 43°16'26", 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 estimated daily discharges, which are fair. Some regulation by small hydro plants, Sunrise and Baxter Lakes, City Dam No. 1, and the Rochester Reservoirs. Low flows diverted from Berrys River (tributary to Isinglass River) to Rochester Reservoir (head of Howard Brook) then into the Rochester City water supply system. Unknown amount of diverted flow enters the Cocheco River Basin above the gage.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,700 ft³/s, June 15, gage height, 15.51 ft; minimum daily discharge, 9.4 ft³/s, October 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	37	131	e78	82	414	319	101	97	286	28	16
2	15	315	134	e86	78	394	283	114	85	520	25	14
3	13	358	107	82	77	392	263	138	68	381	23	14
4	13	201	95	85	77	386	227	139	58	232	22	13
5	15	137	94	104	76	369	195	136	50	183	21	11
6	17	111	95	116	73	331	173	338	43	160	20	11
7	18	91	89	141	70	285	156	827	39	135	20	11
8	16	79	83	294	69	261	142	676	45	118	21	16
9	14	106	72	463	66	477	131	457	58	107	20	76
10	15	189	68	380	64	1790	121	359	55	100	18	71
11	12	152	63	287	62	1240	113	320	46	85	17	61
12	9.6	112	57	e220	126	613	105	280	40	75	19	60
13	9.4	92	59	e185	244	427	100	213	334	68	19	59
14	10	81	55	e165	207	368	94	173	2880	62	18	59
15	10	81	e52	e150	174	315	91	150	2940	56	17	58
16	13	80	e48	e140	e130	280	87	133	2030	53	17	60
17	13	77	45	155	e100	249	95	117	2230	48	16	55
18	14	74	46	125	191	230	122	109	1480	44	28	55
19	25	70	45	106	469	285	108	98	744	39	23	29
20	30	67	e44	102	497	378	248	88	575	44	22	17
21	34	65	42	97	409	320	345	86	461	53	19	12
22	42	83	e41	92	333	257	209	78	366	54	15	14
23	35	102	40	e90	274	230	159	71	290	52	16	23
24	30	105	42	e105	290	213	209	62	241	58	32	23
25	28	93	55	150	587	205	227	55	217	53	48	22
26	27	86	74	147	605	211	203	50	183	43	40	20
27	28	104	89	129	481	268	166	45	277	37	30	19
28	29	114	83	e100	430	390	140	41	480	33	28	17
29	29	98	e72	93	---	453	123	38	363	30	23	12
30	25	87	103	88	---	438	112	36	254	30	21	11
31	23	---	114	86	---	382	---	37	---	30	19	---
TOTAL	628.0	3447	2237	4641	6341	12851	5066	5565	17029	3269	705	939
MEAN	20.3	115	72.2	150	226	415	169	180	568	105	22.7	31.3
MAX	42	358	134	463	605	1790	345	827	2940	520	48	76
MIN	9.4	37	40	78	62	205	87	36	39	30	15	11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1998, BY WATER YEAR (WY)

MEAN	133	193	193	223	225	280	312	169	176	86.0	18.5	18.4
MAX	286	329	409	359	295	415	508	268	568	161	24.7	31.3
(WY)	1997	1996	1997	1996	1996	1998	1997	1996	1996	1996	1996	1998
MIN	20.3	115	72.2	150	152	227	129	71.9	34.2	11.6	9.07	4.85
(WY)	1998	1998	1998	1998	1997	1996	1995	1995	1997	1995	1995	1995

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1995 - 1998
ANNUAL TOTAL	46934.8	62718.0	
ANNUAL MEAN	129	172	184
HIGHEST ANNUAL MEAN			197
LOWEST ANNUAL MEAN			172
HIGHEST DAILY MEAN	2240	Apr 19	2940 Jun 15 1998
LOWEST DAILY MEAN	9.4	Oct 13	2.2 Sep 4 1995
ANNUAL SEVEN-DAY MINIMUM	10	Aug 5	11 Oct 11
INSTANTANEOUS PEAK FLOW			3700 Jun 15 1998
INSTANTANEOUS PEAK STAGE		15.51	15.51 Jun 15 1998
10 PERCENT EXCEEDS	312	379	378
50 PERCENT EXCEEDS	80	86	91
90 PERCENT EXCEEDS	14	17	12

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 over the Exeter River, 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 estimated daily discharges, which are fair. Low flow regulation by power plant upstream.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 26	0315	789	7.83	June 15	0315	* 1,310	* 9.21
Mar. 10	2100	877	8.11				

Minimum daily discharge, 1.3 ft³/s, October 19-21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUE

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	9.9	60	e92	e125	446	153	82	95	247	12	3.1
2	1.5	53	71	e80	e118	387	132	90	107	318	11	2.9
3	1.5	56	66	75	110	328	145	110	90	238	8.9	2.7
4	1.8	39	62	78	108	283	137	109	80	208	8.0	2.7
5	2.5	28	60	83	104	265	130	113	70	181	7.1	2.4
6	2.7	23	57	90	e100	240	121	194	60	156	7.0	2.2
7	2.1	21	53	104	e98	213	112	339	52	139	7.3	3.5
8	1.8	22	49	153	e92	194	104	352	60	122	7.4	4.7
9	1.7	27	45	218	e88	268	97	311	78	104	6.8	3.7
10	1.9	34	42	231	e80	734	92	310	78	91	5.9	3.4
11	1.7	34	40	214	78	745	86	347	73	77	6.0	3.0
12	1.7	29	e37	e190	125	580	83	416	66	71	9.1	3.0
13	1.7	24	35	e170	195	412	77	370	258	59	13	2.8
14	1.6	24	e34	e150	e210	346	65	313	917	56	12	2.7
15	1.5	26	e33	e140	e180	290	68	272	1240	48	9.3	3.1
16	1.5	25	29	e130	e150	256	66	217	1100	32	7.6	3.5
17	1.5	26	26	e120	e140	230	64	178	1020	38	7.9	2.9
18	1.4	26	26	e110	232	211	65	168	846	39	9.4	2.6
19	1.3	24	25	e105	380	226	65	140	793	31	8.3	2.5
20	1.3	23	25	96	418	297	85	120	700	26	7.0	2.7
21	1.3	22	24	e88	385	300	105	104	539	20	5.9	2.6
22	1.4	33	e23	e87	345	271	96	90	399	24	5.2	5.2
23	1.4	49	23	e90	300	246	91	79	314	25	4.7	7.9
24	1.5	50	24	e125	344	243	133	69	279	25	5.7	7.7
25	1.6	46	28	167	651	227	152	62	328	20	8.3	6.9
26	2.3	42	39	190	743	216	138	59	264	19	6.2	5.9
27	3.2	47	42	e170	629	214	130	50	270	18	5.2	6.3
28	3.5	48	46	155	535	209	116	45	258	16	4.2	5.3
29	3.1	45	e50	147	---	204	101	43	212	16	3.8	4.2
30	2.9	42	77	143	---	186	90	43	186	14	3.6	3.9
31	3.4	---	94	136	---	168	---	42	---	14	3.3	---
TOTAL	60.2	997.9	1345	4127	7063	9435	3099	5237	10832	2492	227.1	116.0
MEAN	1.94	33.3	43.4	133	252	304	103	169	361	80.4	7.33	3.87
MAX	3.5	56	94	231	743	745	153	416	1240	318	13	7.9
MIN	1.3	9.9	23	75	78	168	64	42	52	14	3.3	2.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1998, BY WATER YEAR (WY)

	1996	1997	1998	1997	1998	1999	1997	1998	1999	1997	1998	1999
MEAN	169	82.8	174	132	194	238	212	148	195	42.2	4.84	6.76
MAX	335	132	304	133	252	304	321	169	361	80.4	7.33	14.8
(WY)	1997	1997	1997	1998	1998	1998	1997	1998	1998	1998	1998	1996
MIN	1.94	33.3	43.4	131	135	172	103	128	28.0	6.58	1.47	1.58
(WY)	1998	1998	1998	1997	1997	1997	1998	1997	1997	1997	1997	1997

SUMMARY STATISTICS FOR 1997 CALENDAR YEAR FOR 1998 WATER YEAR WATER YEARS 1996 - 1998

ANNUAL TOTAL	30321.40	45031.2	
ANNUAL MEAN	83.1	123	133
HIGHEST ANNUAL MEAN			142
LOWEST ANNUAL MEAN			123
HIGHEST DAILY MEAN	792	Apr 20	1240
LOWEST DAILY MEAN	.73	Sep 10	a 1.3
ANNUAL SEVEN-DAY MINIMUM	.77	Sep 4	1.4
INSTANTANEOUS PEAK FLOW			1310
INSTANTANEOUS PEAK STAGE			9.21
10 PERCENT EXCEEDS	199	310	2630
50 PERCENT EXCEEDS	40	66	.73
90 PERCENT EXCEEDS	1.3	2.9	.77

a Also occurred Oct. 20, 21.
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 0104500) 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.

REMARKS.--Records good except those for estimated daily discharges and for period August 5 to September 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)
Nov. 2	2300	5,130	5.99	June 14	1415	* 8,380	* 7.67
Mar. 31	1815	4,590	5.68	June 16	1345	4,260	5.48

Minimum daily discharge, 56 ft³/s, December 29 and January 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	141	120	e56	e107	204	2380	407	159	688	79	58
2	130	2280	100	e64	e104	209	1690	740	125	526	74	58
3	117	1760	113	73	103	209	1420	700	146	344	72	85
4	111	744	110	e106	e96	198	994	546	132	276	69	72
5	209	822	108	e125	93	181	734	778	128	421	69	66
6	181	527	102	e133	e91	168	586	1840	114	334	87	61
7	138	402	98	e374	e90	161	505	1250	113	259	123	82
8	123	330	e91	e871	e86	e152	482	889	196	231	101	111
9	114	410	e69	1050	e90	322	501	640	190	204	82	145
10	107	851	e86	509	e85	1490	505	542	145	206	78	213
11	100	495	77	360	e81	690	426	551	122	348	240	128
12	94	374	87	281	e220	e408	414	430	111	301	318	100
13	89	309	e112	e250	e508	e337	450	371	1430	209	202	90
14	89	275	e88	214	e253	e304	504	332	4080	175	128	82
15	85	260	e62	182	e200	e281	538	301	1800	150	106	88
16	84	234	e88	213	e183	e246	663	275	2470	133	95	209
17	80	205	e85	e210	e164	e221	1370	257	1470	120	89	131
18	75	187	e83	e190	e142	e212	1210	238	946	113	85	97
19	73	174	e85	174	e128	e205	808	214	819	98	78	86
20	69	166	e80	164	e116	203	1050	200	635	97	69	80
21	69	155	e60	e149	108	190	805	188	545	104	60	89
22	67	154	e62	e147	e101	181	673	188	425	83	60	80
23	66	144	e65	e135	e94	174	616	174	359	127	58	76
24	64	135	e75	e154	e118	e159	613	156	310	183	69	69
25	63	117	e82	e145	e349	e155	546	145	272	121	189	66
26	62	135	e85	e137	205	154	468	136	298	106	137	63
27	71	170	e72	e130	164	340	399	127	709	99	81	142
28	96	128	e65	e128	163	1510	356	120	509	92	65	271
29	76	132	e56	e124	---	2170	337	116	346	90	59	156
30	68	e120	e63	e120	---	1920	358	124	283	88	59	113
31	69	---	e60	e114	---	3240	---	116	---	86	58	---
TOTAL	2989	12336	2589	7082	4242	16594	22401	13091	19387	6412	3139	3167
MEAN	96.4	411	83.5	228	152	535	747	422	646	207	101	106
MAX	209	2280	120	1050	508	3240	2380	1840	4080	688	318	271
MIN	62	117	56	56	81	152	337	116	111	83	58	58
CFSM	.84	3.58	.73	1.99	1.32	4.65	6.49	3.67	5.62	1.80	.88	.92
IN.	.97	3.99	.84	2.29	1.37	5.37	7.25	4.23	6.27	2.07	1.02	1.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1998, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998
MEAN	334	424	246	296	178	257
MAX	740	760	509	564	389	535
(WY)	1996	1996	1997	1996	1996	1993
MIN	96.4	139	83.5	116	90.5	95.2
(WY)	1998	1995	1998	1994	1994	1995

SUMMARY STATISTICS FOR 1997 CALENDAR YEAR FOR 1998 WATER YEAR WATER YEARS 1993 - 1998

ANNUAL TOTAL	111671	113429				
ANNUAL MEAN	306	311				344
HIGHEST ANNUAL MEAN						507
LOWEST ANNUAL MEAN						202
HIGHEST DAILY MEAN	2710	Apr 19	4080	Jun 14	6280	Apr 17 1993
LOWEST DAILY MEAN	56	Dec 29	a 56	Dec 29	46	Sep 24 1996
ANNUAL SEVEN-DAY MINIMUM	66	Oct 20	62	Dec 27	53	Sep 1 1995
INSTANTANEOUS PEAK FLOW			8380	Jun 14	b 16500	Oct 22 1995
INSTANTANEOUS PEAK STAGE			7.67	Jun 14	11.07	Oct 22 1995
INSTANTANEOUS LOW FLOW			c		45	Sep 24 1996
ANNUAL RUNOFF (CFSM)	2.66		2.70			3.00
ANNUAL RUNOFF (INCHES)	36.12		36.69			40.69
10 PERCENT EXCEEDS	841		694			791
50 PERCENT EXCEEDS	160		146			181
90 PERCENT EXCEEDS	80		69			77

a Also occurred on January 1.
 b From rating curve extended above 4,500 ft³/s.
 c Minimum not determined.
 e Estimated.

01076500 PEMIGEWASSET RIVER AT PLYMOUTH, NH

LOCATION.--Lat 43°45'33", long 71°41'10", Grafton County, Hydrologic Unit 01070001, on right bank, 150 ft downstream from bridge at Plymouth 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.

Water-quality records: Water years 1953, 1967-74, 1976-79.

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. Estimated daily discharges from January 19 to February 11 and from February 21-24 are poor. Stage-discharge relationship at times is affected by variable slope. Some diurnal fluctuation during period 1940-52 caused by powerplants 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)
Jan. 9	0245	14,300	9.42	June 14	2200	(a)	* 14.24
Apr. 1	0030	19,400	12.31	June 16	1830	20,700	12.45
June 14	2015	* 24,500	14.11	June 27	1630	15,300	10.73

Minimum discharge, 217 ft³/s, August 21, 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	508	371	781	e400	e600	1650	14400	1310	506	4100	352	270
2	443	4070	e687	e390	e600	1950	9520	1580	493	4050	321	251
3	384	6990	e673	e400	e550	2190	7470	2180	471	2350	299	360
4	370	2880	597	e490	e550	1990	5840	1760	483	1760	279	370
5	568	3070	607	942	e550	1710	4330	2010	429	2380	268	305
6	856	2130	622	973	e500	1480	3460	4760	389	2310	251	255
7	579	1550	585	e1650	e500	1340	3010	5990	365	1650	285	230
8	455	1270	551	e7810	e500	1190	2850	3810	562	1430	317	249
9	403	1430	e420	9930	e500	1890	2760	2690	826	1320	290	291
10	371	3590	e440	4710	e500	8070	2680	2250	611	1130	259	527
11	335	2250	e450	2820	e500	5320	2330	2270	502	1080	351	490
12	312	1590	e440	1970	e830	2950	2090	1840	419	1440	1110	364
13	299	1280	e461	e1550	e2400	2250	2020	1550	3620	1050	1040	302
14	296	1120	e454	e1300	e1650	e2000	2060	1340	18100	889	586	268
15	291	1080	e350	e1100	e1350	1730	2020	1190	11100	767	436	252
16	296	978	e418	e1200	e1100	1380	2080	1050	13600	673	370	1070
17	295	871	e411	e1100	e1070	1190	3100	964	9420	610	328	961
18	284	823	e405	e900	e1020	1120	3720	959	5020	606	309	615
19	274	773	e409	e900	e1070	1090	2600	839	4490	548	285	469
20	259	744	399	e900	e1200	998	3830	740	3810	628	257	397
21	251	699	e295	e800	e950	936	3510	673	2890	822	237	354
22	244	721	e290	e700	e900	e910	2570	628	2130	650	226	338
23	241	731	e300	e600	e800	e880	2220	609	1730	578	230	321
24	240	688	e340	e580	e1000	780	2210	545	1470	1150	262	295
25	244	618	e400	e800	e2400	712	2170	497	1220	929	597	271
26	245	619	e440	e700	e2500	747	2020	461	1300	639	1090	255
27	279	1080	467	e600	1980	1260	1710	426	10100	532	741	264
28	406	e987	408	e650	1380	6430	1520	396	6630	473	499	612
29	438	e931	e330	e600	---	11400	1370	382	3280	428	395	688
30	371	e784	e432	e600	---	11000	1300	386	2420	403	337	450
31	340	---	e479	e600	---	14400	---	380	---	382	295	---
TOTAL	11177	46718	14341	48665	29450	92943	102770	46465	108386	37757	12902	12144
MEAN	361	1557	463	1570	1052	2998	3426	1499	3613	1218	416	405
MAX	856	6990	781	9930	2500	14400	14400	5990	18100	4100	1110	1070
MIN	240	371	290	390	500	712	1300	380	365	382	226	230
CFSM	.58	2.50	.74	2.52	1.69	4.82	5.51	2.41	5.81	1.96	.67	.65
IN.	.67	2.79	.86	2.91	1.76	5.56	6.15	2.78	6.48	2.26	.77	.73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1998, 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
MEAN	966	1340	1133	876	735	1725	3939	2793	1163	648	511	581																																																																																			
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 1997 CALENDAR YEAR

FOR 1998 WATER YEAR

WATER YEARS 1904 - 1998

ANNUAL TOTAL	491375	563718	
ANNUAL MEAN	1346	1544	1368
HIGHEST ANNUAL MEAN			2156
LOWEST ANNUAL MEAN			735
HIGHEST DAILY MEAN	16600	Apr 19	18100
LOWEST DAILY MEAN	221	Aug 12	226
ANNUAL SEVEN-DAY MINIMUM	244	Aug 7	246
INSTANTANEOUS PEAK FLOW			24500
INSTANTANEOUS PEAK STAGE			14.24
INSTANTANEOUS LOW FLOW			c 217
ANNUAL RUNOFF (CFSM)	2.16	2.48	2.20
ANNUAL RUNOFF (INCHES)	29.39	33.71	29.88
10 PERCENT EXCEEDS	3090	3350	3180
50 PERCENT EXCEEDS	762	740	678
90 PERCENT EXCEEDS	300	295	236

- a Discharge affected by variable slope.
- b From flood marks.
- c Also on August 22.
- d Also on October 3, 1948.
- e Estimated.

01080000 LAKE WINNIPESAUKEE AT WEIRS BEACH, NH

LOCATION.--Lat 43°36'27", long 71°27'32, Belknap County, Hydrologic Unit 01070002, 600 ft east of Weirs Beach Post Office, 1,600 ft north of US Highway 3 bridge at Weirs Beach, 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).

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, 5.54 ft, June 21; minimum daily gage height, 2.32 ft, February 17.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.09	2.93	2.71	2.61	2.66	2.56	3.86	3.74	3.97	5.30	3.71	3.64
2	3.07	3.06	2.64	2.61	2.63	2.58	3.91	3.77	3.97	5.30	3.69	3.64
3	3.08	3.10	2.64	2.60	2.60	2.61	3.93	3.78	3.94	5.25	3.67	3.64
4	3.08	3.11	2.66	2.60	2.58	2.63	3.94	3.80	3.90	5.18	3.66	3.62
5	3.09	3.10	2.65	2.61	2.55	2.67	3.93	3.82	3.88	5.15	3.64	3.56
6	3.08	3.09	2.63	2.61	2.52	2.69	3.91	3.97	3.88	5.08	3.62	3.55
7	3.06	3.09	2.60	2.62	2.49	2.71	3.89	4.10	3.89	5.01	3.61	3.55
8	3.06	3.06	2.58	2.74	2.46	2.73	3.87	4.16	3.90	4.93	3.60	3.52
9	3.05	3.08	2.60	2.82	2.43	2.86	3.83	4.20	3.91	4.83	3.57	3.48
10	3.02	3.06	2.60	2.84	2.40	3.10	3.78	4.25	3.91	4.71	3.55	3.44
11	3.00	3.04	2.60	2.86	2.37	3.22	3.74	4.26	3.90	4.59	3.57	3.43
12	2.99	3.02	2.59	2.88	2.39	3.32	3.71	4.24	3.91	4.51	3.70	3.42
13	2.97	2.98	2.58	2.88	2.39	3.36	3.67	4.22	4.11	4.43	3.69	3.42
14	2.96	2.99	2.54	2.85	2.37	3.41	3.64	4.19	4.53	4.32	3.67	3.40
15	2.96	2.98	2.55	2.87	2.36	3.45	3.62	4.18	4.75	4.26	3.66	3.40
16	2.96	2.95	2.56	2.90	2.34	3.47	3.62	4.17	5.00	4.21	3.66	3.45
17	2.95	2.92	2.55	2.88	2.32	3.48	3.63	4.15	5.21	4.16	3.65	3.44
18	2.94	2.91	2.54	2.87	2.34	3.48	3.61	4.13	5.32	4.09	3.63	3.43
19	2.94	2.89	2.54	2.86	2.37	3.51	3.62	4.12	5.47	4.04	3.60	3.40
20	2.93	2.86	2.52	2.85	2.37	3.52	3.70	4.10	5.53	4.02	3.58	3.40
21	2.90	2.84	2.51	2.82	2.36	3.51	3.72	4.06	5.54	4.01	3.56	3.39
22	2.88	2.86	2.52	2.81	2.36	3.56	3.73	4.02	5.51	3.97	3.54	3.39
23	2.87	2.85	2.55	2.79	2.35	3.58	3.74	4.01	5.46	3.96	3.56	3.36
24	2.85	2.80	2.56	2.86	2.36	3.57	3.76	3.99	5.40	3.96	3.60	3.35
25	2.86	2.77	2.60	2.83	2.45	3.56	3.76	3.99	5.34	3.92	3.65	3.33
26	2.86	2.77	2.62	2.81	2.47	3.55	3.78	3.97	5.29	3.88	3.72	3.33
27	2.88	2.73	2.62	2.79	2.51	3.55	3.76	3.96	5.39	3.84	3.71	3.33
28	2.84	2.74	2.61	2.76	2.53	3.59	3.76	3.95	5.38	3.79	3.71	3.30
29	2.85	2.70	2.61	2.73	---	3.65	3.74	3.93	5.32	3.77	3.70	3.28
30	2.85	2.71	2.63	2.71	---	3.72	3.74	3.93	5.27	3.76	3.67	3.27
31	2.86	---	2.60	2.69	---	3.78	---	3.95	---	3.74	3.66	---
MEAN	2.96	2.93	2.59	2.77	2.44	3.26	3.76	4.04	4.69	4.39	3.64	3.44
MAX	3.09	3.11	2.71	2.90	2.66	3.78	3.94	4.26	5.54	5.30	3.72	3.64
MIN	2.84	2.70	2.51	2.60	2.32	2.56	3.61	3.74	3.88	3.74	3.54	3.27
(†)	15,610	15,310	15,040	15,210	14,960	15,550	17,320	17,780	20,320	17,300	17,120	16,400
(‡)	-470	-300	-270	+170	-250	+590	+1,770	+460	+2,540	-3,020	-180	-720

CAL YR 1997 MEAN 3.41 MAX 4.43 MIN 2.51 (†) -89
 WTR YR 1998 MEAN 3.41 MAX 5.54 MIN 2.32 (†) +10

(†) Millions of cubic feet at 2400 on last day of month.
 (‡) Change in contents equivalent in cubic feet per second.

01089100 SOUHOOK RIVER AT PEMBROKE ROAD NEAR CONCORD, NH

LOCATION.--Lat 43°12'47", long 71°28'49", Merrimack County, Hydrologic Unit 01070002, on left bank, 100 ft upstream of Pembroke Road bridge, 500 ft east of State Highway 106, 1.4 mi downstream from U.S. Highways 4 and 202, and State Highway 9.

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 270 ft above sea level, from topographic map.

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

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)
Mar. 10	1445	1,890	10.76	June 17	0645	* 2,020	* 11.02
June 15	0530	1,450	9.78	June 19	1545	1,240	9.25

Minimum discharge, 9.0 ft³/s, October 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	21	94	e62	82	409	328	94	132	391	33	15
2	9.7	108	95	58	79	396	301	96	88	571	30	15
3	9.6	117	80	52	77	e390	283	108	71	369	28	15
4	9.8	95	73	56	77	370	254	109	60	277	27	16
5	11	91	70	69	75	364	233	117	50	243	25	15
6	13	76	69	77	e73	341	209	243	43	206	24	14
7	13	64	66	104	e72	307	184	461	40	170	33	14
8	11	56	64	236	e70	283	160	359	50	151	30	14
9	11	62	55	440	e68	523	144	275	53	131	27	14
10	11	113	e53	362	66	1660	131	235	47	113	24	14
11	9.7	96	e48	e285	64	1330	120	214	42	99	25	13
12	9.6	80	e47	264	99	679	113	186	42	90	27	13
13	9.4	69	48	219	e200	445	105	156	220	81	26	12
14	12	63	45	e185	e200	359	99	133	1080	75	23	12
15	11	61	e40	e180	e175	304	95	117	1240	69	20	13
16	16	60	39	163	e145	271	90	103	1150	63	19	19
17	20	55	38	138	125	246	96	93	1790	59	19	15
18	18	54	38	124	133	231	98	93	997	54	20	13
19	16	51	37	116	238	277	90	89	998	48	20	12
20	15	48	37	110	287	327	215	75	874	54	18	12
21	13	46	e35	102	267	284	244	75	639	96	16	11
22	12	55	32	e94	243	239	192	70	433	83	16	12
23	11	68	32	e90	e225	248	160	64	339	69	16	13
24	11	65	34	107	242	220	166	57	285	73	24	14
25	12	59	40	137	492	206	170	51	357	61	31	13
26	12	57	52	e120	549	210	174	47	374	51	29	12
27	14	63	59	e110	428	268	151	43	480	45	28	12
28	17	65	e57	97	413	389	129	39	560	41	22	12
29	17	66	e55	93	---	475	116	40	394	38	19	11
30	15	e60	61	89	---	479	103	36	312	39	17	11
31	15	---	e64	86	---	405	---	39	---	37	16	---
TOTAL	394.8	2044	1657	4425	5264	12935	4953	3917	13240	3947	732	401
MEAN	12.7	68.1	53.5	143	188	417	165	126	441	127	23.6	13.4
MAX	20	117	95	440	549	1660	328	461	1790	571	33	19
MIN	9.4	21	32	52	64	206	90	36	40	37	16	11
CFSM	.16	.83	.65	1.74	2.30	5.09	2.02	1.54	5.39	1.55	.29	.16
IN.	.18	.93	.75	2.01	2.39	5.88	2.25	1.78	6.01	1.79	.33	.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1998, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	
MEAN	85.8	142	149	141	130	217	274	172	102	46.5	36.9	30.4
MAX	168	289	368	420	350	417	429	333	441	127	95.4	91.3
(WY)	1992	1996	1997	1996	1996	1998	1993	1996	1998	1998	1990	1991
MIN	12.7	30.6	53.5	35.8	34.6	134	126	74.1	31.1	11.6	14.5	8.33
(WY)	1998	1995	1998	1989	1993	1992	1995	1993	1991	1993	1997	1995

SUMMARY STATISTICS

FOR 1997 CALENDAR YEAR

FOR 1998 WATER YEAR

WATER YEARS 1988 - 1998

ANNUAL TOTAL	42178.0	53909.8		
ANNUAL MEAN	116	148	128	
HIGHEST ANNUAL MEAN			198	1996
LOWEST ANNUAL MEAN			86.8	1995
HIGHEST DAILY MEAN	1090	Apr 20	1790	Jun 17
LOWEST DAILY MEAN	8.8	Sep 27	9.4	Oct 13
ANNUAL SEVEN-DAY MINIMUM	9.1	Sep 22	11	Oct 8
INSTANTANEOUS PEAK FLOW			2020	Jun 17
INSTANTANEOUS PEAK STAGE			11.02	Jun 17
INSTANTANEOUS LOW FLOW			9.0	Oct 13
ANNUAL RUNOFF (CFSM)	1.41	1.80		1.56
ANNUAL RUNOFF (INCHES)	19.16	24.49		21.19
10 PERCENT EXCEEDS	272	363	285	
50 PERCENT EXCEEDS	62	70	75	
90 PERCENT EXCEEDS	12	13	15	

a At site located 0.9 mi upstream (station 01089000).
e Estimated.

MERRIMACK RIVER BASIN

01092000 MERRIMACK RIVER NEAR GOFFS FALLS, BELOW MANCHESTER, NH

LOCATION.--Lat 42°56'54", long 71°27'52", 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, and 2.3 mi downstream from Piscataquog River.

DRAINAGE AREA.--3,092 mi².

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

Water-quality records: Water years 1952-53, 1957, 1971.

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 powerplants, 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, 38,700 ft³/s, June 17, gage height, 12.46 ft; minimum daily discharge, 872 ft³/s, September 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1040	2090	4760	2550	4180	12100	25900	5390	3970	16800	1900	1210
2	1410	4070	5050	2480	4150	11600	26900	5050	3750	16600	1580	999
3	1320	6670	4780	2520	4060	11900	27600	5520	4100	16000	1300	872
4	1570	10900	4610	2570	4080	12400	26800	6210	3440	13000	1530	1710
5	1560	8540	4250	2960	4090	12400	24800	6430	3030	10900	e1450	1080
6	1870	7020	4290	e3510	e3800	11500	21800	7570	2440	10600	1300	907
7	2070	6310	3750	e4260	e3600	10600	17900	14200	2410	9590	1490	1410
8	1570	5600	3870	e7300	e3650	9700	15700	17300	2690	8640	1510	1530
9	1300	4540	3310	13700	e3500	11600	13100	14300	2740	8070	1360	1910
10	1500	5290	3400	18500	e3750	21900	10700	11600	2770	7430	1510	2200
11	968	7200	2900	16600	3630	26100	9790	10700	2770	6820	1830	1760
12	1620	7270	2670	12800	4600	25100	9010	10700	2510	6340	1860	1680
13	1840	6320	2320	10100	5820	19700	8210	10200	4700	6170	2210	1660
14	1290	5500	2700	8030	6340	15800	7550	9320	15900	5330	2510	1110
15	1510	4960	2290	6530	e5640	13000	6550	7860	26600	4850	1750	1000
16	1870	5000	2270	5600	e5400	11300	6120	6580	29500	5020	1860	1230
17	1820	4600	2170	5540	e5200	10300	6370	6020	36900	4660	1770	1620
18	1790	4250	2640	5870	5490	9510	7040	5360	34300	3360	1480	2140
19	2050	4080	2030	5770	6130	9550	7850	4960	30400	2490	1520	1130
20	1670	3940	2440	5740	6980	10300	8590	4930	29300	2960	1300	1460
21	1580	3920	1890	5040	7350	10000	10400	4330	27500	2900	1280	1070
22	1410	4030	1730	4250	7000	9050	10500	3900	25700	3670	1260	1290
23	1480	4210	1750	4590	6410	8270	8680	3580	22800	3440	1280	1490
24	1430	4370	2050	4140	6130	7880	8070	3250	19100	3130	1260	1380
25	1380	4090	2440	5530	9630	7690	7590	3350	15800	3920	1300	884
26	1270	3890	2320	5100	13400	7430	7580	2940	14400	3560	1620	935
27	1340	4590	2670	4910	13300	7740	7070	2080	15300	2800	2700	1060
28	1360	4100	2620	4830	12700	10500	6330	2420	21300	2570	2310	1130
29	1390	4510	2190	4760	---	17900	5910	2280	23000	2280	1760	908
30	1260	4450	2680	4600	---	24100	5480	2120	18800	2260	1390	1110
31	1260	---	2970	4580	---	28000	---	2030	---	1630	1280	---
TOTAL	46798	156310	91810	195260	170010	414920	365890	202480	447920	197790	50460	39875
MEAN	1510	5210	2962	6299	6072	13380	12200	6532	14930	6380	1628	1329
MAX	2070	10900	5050	18500	13400	28000	27600	17300	36900	16800	2700	2200
MIN	968	2090	1730	2480	3500	7430	5480	2030	2410	1630	1260	872

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1998, BY WATER YEAR (WY)

	3023	4739	5321	4561	4767	7955	14030	8754	4555	2493	1971	2054
MEAN	3023	4739	5321	4561	4767	7955	14030	8754	4555	2493	1971	2054
MAX	10380	12910	13690	10840	11370	18240	25660	18250	16480	11470	8576	14500
(WY)	1978	1996	1984	1978	1970	1953	1969	1954	1984	1973	1990	1938
MIN	771	1341	1458	1410	1354	2141	4612	3059	1354	808	782	745
(WY)	1965	1979	1979	1948	1980	1940	1995	1957	1964	1991	1965	1957

SUMMARY STATISTICS FOR 1997 CALENDAR YEAR FOR 1998 WATER YEAR WATER YEARS 1937 - 1998

ANNUAL TOTAL	2011338	2379523	
ANNUAL MEAN	5511	6519	5323
HIGHEST ANNUAL MEAN			8400
LOWEST ANNUAL MEAN			2248
HIGHEST DAILY MEAN	31900	Apr 20	36900
LOWEST DAILY MEAN	889	Aug 8	872
ANNUAL SEVEN-DAY MINIMUM	1090	Sep 25	1060
INSTANTANEOUS PEAK FLOW			38700
INSTANTANEOUS PEAK STAGE			12.46
10 PERCENT EXCEEDS	12300	15700	12200
50 PERCENT EXCEEDS	4160	4250	3420
90 PERCENT EXCEEDS	1330	1360	1210

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

MERRIMACK RIVER BASIN

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 highway bridge at the Windham-Pelham town line, 0.7 mi north of North Pelham, 1.3 mi south of West Windham (junction of State Routes 128 and 111), 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 170 ft above sea level, from topographic map.

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

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)
Feb. 25	2345	465	9.08	June 14	2330	* 1,440	* 12.54
Mar. 10	1715	725	10.20				

Minimum discharge, 2.0 ft³/s, October 12, 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	15	53	e60	83	225	95	54	114	184	5.5	3.7
2	2.7	67	57	e56	77	201	97	74	85	238	5.7	3.5
3	2.6	62	45	e55	75	180	99	85	64	182	5.6	3.5
4	2.9	41	41	58	77	162	85	85	51	135	5.4	3.3
5	4.4	34	40	68	74	153	81	86	41	103	5.3	3.1
6	6.4	29	38	80	e66	139	77	167	34	83	5.2	3.0
7	4.7	26	33	105	e62	123	76	273	32	69	6.3	3.2
8	3.5	26	31	173	e60	112	70	294	53	54	5.7	3.2
9	2.8	29	28	225	e58	220	66	239	67	39	5.5	3.1
10	2.8	57	27	214	57	651	65	213	53	47	5.2	3.1
11	2.4	42	26	e170	56	585	60	232	42	42	6.6	2.9
12	2.1	31	e23	e130	107	384	57	284	38	35	7.5	2.8
13	2.2	25	e22	e110	178	262	53	263	231	32	7.0	2.8
14	2.3	e22	e21	e94	e160	208	50	204	1150	34	6.7	2.7
15	2.6	e23	e20	e90	e130	182	48	157	1200	32	6.4	3.2
16	5.3	24	e18	e82	e94	167	56	128	775	26	6.1	3.7
17	3.7	23	e17	81	e86	152	47	107	588	24	6.2	3.0
18	4.3	21	e17	73	153	138	49	93	428	21	6.2	2.9
19	2.7	18	e16	68	295	167	44	82	316	16	5.9	2.9
20	4.2	17	e15	65	293	227	81	68	246	26	5.7	3.2
21	3.9	13	e13	63	247	218	87	60	196	22	5.9	2.7
22	3.4	22	e11	e54	206	193	79	55	160	16	5.5	4.1
23	3.6	50	e10	e56	174	171	69	54	135	19	5.3	4.2
24	6.9	42	e11	139	189	162	108	50	126	11	5.0	6.4
25	9.2	31	e13	208	381	157	122	45	111	15	4.7	8.5
26	8.0	27	e22	e190	437	152	112	40	163	9.5	4.7	8.6
27	9.8	33	e32	e150	345	148	89	34	198	6.2	4.5	12
28	13	32	e31	137	267	131	73	30	214	13	4.4	9.3
29	14	e28	e28	111	---	118	63	28	172	6.4	4.1	3.0
30	10	26	e65	100	---	107	58	33	141	10	3.9	2.6
31	10	---	e70	91	---	96	---	29	---	4.8	3.7	---
TOTAL	159.5	936	894	3356	4487	6291	2216	3646	7224	1554.9	171.4	124.2
MEAN	5.15	31.2	28.8	108	160	203	73.9	118	241	50.2	5.53	4.14
MAX	14	67	70	225	437	651	122	294	1200	238	7.5	12
MIN	2.1	13	10	54	56	96	44	28	32	4.8	3.7	2.6
CFSM	.11	.65	.60	2.26	3.35	4.25	1.55	2.46	5.04	1.05	.12	.09
IN.	.12	.73	.70	2.61	3.49	4.90	1.72	2.84	5.62	1.21	.13	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1998, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	50.5	81.2	104	91.1	94.0	147	169	97.6	53.9	22.0	22.8	21.7
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	19.3	27.8	27.5	41.4	56.5	66.0	46.2	16.6	3.53	2.24	2.71
(WY)	1998	1995	1990	1989	1987	1989	1995	1995	1995	1993	1993	1997

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1987 - 1998
ANNUAL TOTAL	22992.7	31060.0	
ANNUAL MEAN	63.0	85.1	79.4
HIGHEST ANNUAL MEAN			99.9
LOWEST ANNUAL MEAN			54.6
HIGHEST DAILY MEAN	607	Apr 20	1500
LOWEST DAILY MEAN	1.9	Sep 22	1.2
ANNUAL SEVEN-DAY MINIMUM	2.0	Sep 20	1.3
INSTANTANEOUS PEAK FLOW			1440
INSTANTANEOUS PEAK STAGE			12.54
INSTANTANEOUS LOW FLOW			a 2.0
ANNUAL RUNOFF (CFSM)	1.32	1.78	1.66
ANNUAL RUNOFF (INCHES)	17.89	24.17	22.56
10 PERCENT EXCEEDS	151	207	175
50 PERCENT EXCEEDS	31	48	53
90 PERCENT EXCEEDS	2.8	3.7	6.6

a Also occurred on October 13.

e Estimated.