

01129200 CONNECTICUT RIVER BELOW INDIAN STREAM, NEAR PITTSBURG, NH

LOCATION.--Lat 45°02'25", long 71°26'37", Coos County, Hydrologic Unit 01080101, on right bank, 1,200 ft downstream from Indian Stream, 2.7 mi west of US Highway 3 and State Highway 145 intersection in Pittsburg, 3.9 mi northeast of Post Office in Beecher Falls, and at mile 376.5.

DRAINAGE AREA.--254 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1956 to current year.

REVISED RECORDS.--WDR MA-NH-RI-VT-73-1: 1958, 1960(M), 1969(M).

GAGE.--Water-stage recorder. Elevation of gage is 1,150 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by First Connecticut and Second Connecticut Lakes and Lake Francis 3.7 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,820 ft³/s, May 11, 2000, gage height, 8.37 ft, from rating curve extended above 2,600 ft³/s; minimum daily 30 ft³/s, August 6, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,580 ft³/s, April 18, gage height, 6.62 ft; minimum daily discharge, 116 ft³/s, December 23.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	204	235	819	848	949	e191	380	685	1170	347	448	665
2	204	315	457	842	946	197	398	792	813	347	431	665
3	203	352	317	842	933	204	416	1050	685	399	426	661
4	204	332	258	835	930	e276	547	992	610	308	422	658
5	206	289	239	834	926	e258	379	927	597	284	416	655
6	209	313	231	829	916	239	298	848	796	299	418	490
7	215	269	207	827	911	218	255	755	713	285	434	406
8	210	234	186	826	902	201	252	741	628	274	432	403
9	180	230	167	823	895	219	357	644	582	280	419	401
10	187	226	148	820	886	791	1380	625	550	277	413	401
11	200	217	148	823	890	852	918	591	550	260	409	406
12	184	201	142	819	884	504	960	564	1190	251	439	410
13	173	188	147	818	881	384	1970	780	1450	244	581	415
14	166	186	167	811	867	377	3210	1080	1320	240	701	408
15	171	194	173	810	860	355	2180	1360	872	247	700	442
16	205	289	138	810	856	339	1630	1370	733	266	700	488
17	192	292	129	810	850	e320	2020	1520	719	257	694	470
18	188	235	149	810	843	282	2840	1470	719	253	693	433
19	184	216	146	804	833	265	2740	1350	691	371	693	418
20	182	212	145	802	826	241	3140	1290	634	435	691	345
21	192	216	141	802	566	197	2840	1260	600	429	686	304
22	257	197	e126	798	134	e164	1880	887	579	426	686	314
23	237	187	e116	795	152	e168	925	757	568	454	686	320
24	227	180	132	857	e150	168	609	596	524	479	680	312
25	310	177	130	878	146	e151	583	512	475	448	679	305
26	546	207	440	978	149	e145	648	502	522	432	679	266
27	343	197	657	978	185	147	625	498	557	426	675	195
28	299	178	795	972	188	157	596	485	566	424	672	648
29	261	188	861	970	---	149	594	474	478	421	672	390
30	245	506	858	962	---	178	601	515	427	450	668	279
31	231	---	854	952	---	294	---	657	---	509	665	---
TOTAL	7015	7258	9623	26485	19454	8631	36171	26577	21318	10822	18008	12973
MEAN	226	242	310	854	695	278	1206	857	711	349	581	432
MAX	546	506	861	978	949	852	3210	1520	1450	509	701	665
MIN	166	177	116	795	134	145	252	474	427	240	409	195

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2001, BY WATER YEAR (WY)

MEAN	545	542	725	798	768	534	644	525	391	418	434	437
MAX	1342	1056	1485	1175	1325	1088	1206	1691	863	1187	1043	1095
(WY)	1978	1978	1960	1960	1974	1979	2002	1974	1984	1996	1976	1963
MIN	111	181	310	462	376	118	247	162	80.9	55.7	64.7	111
(WY)	1969	1967	2002	1979	1980	2001	1995	1988	1962	1965	1975	1968

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1957 - 2002

ANNUAL TOTAL	163719	204335	
ANNUAL MEAN	448	560	563
HIGHEST ANNUAL MEAN			789
LOWEST ANNUAL MEAN			379
HIGHEST DAILY MEAN	2690	Apr 24	3210
LOWEST DAILY MEAN	88	Mar 16	e 116
ANNUAL SEVEN-DAY MINIMUM	92	Mar 16	134
MAXIMUM PEAK FLOW			3580
MAXIMUM PEAK STAGE			6.62
10 PERCENT EXCEEDS	879		931
50 PERCENT EXCEEDS	278		439
90 PERCENT EXCEEDS	139		179

a From rating curve extended above 2,600 ft³/s.
e Estimated.

CONNECTICUT RIVER BASIN

01129200 CONNECTICUT RIVER BELOW INDIAN STREAM, NEAR PITTSBURG, NH--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1999 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June 1999 to current year.

INSTRUMENTATION.--Water-temperature recorder since June 16, 1999, provides continuous recordings.

REMARKS.--Records poor.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	14.0	15.5	8.0	5.0	6.5	6.5	3.5	5.0	2.5	0.5	1.5
2	17.5	14.5	15.5	9.5	6.0	7.5	6.0	4.5	5.0	3.0	1.0	2.0
3	18.0	14.5	15.5	9.5	7.5	8.5	5.5	3.5	4.5	3.0	1.0	2.0
4	18.0	14.5	16.0	8.5	6.5	7.5	6.0	4.0	5.0	3.0	1.0	1.5
5	17.0	15.0	16.0	7.5	5.0	6.0	6.5	4.5	5.0	3.0	1.0	2.0
6	16.5	14.0	15.0	6.0	4.5	5.0	7.0	4.5	6.0	3.0	1.0	2.0
7	15.0	12.5	14.0	6.0	3.5	4.5	5.5	2.5	4.0	3.0	1.0	2.0
8	13.5	10.5	12.5	5.5	2.5	4.0	3.5	1.0	2.0	3.0	1.0	2.0
9	13.5	9.5	11.5	5.5	3.0	4.5	3.0	0.5	1.5	3.0	1.0	2.0
10	14.0	11.0	12.5	4.5	2.5	3.5	2.5	0.0	1.0	3.0	1.5	2.0
11	14.5	10.0	12.5	4.5	2.5	3.0	2.5	0.0	1.5	3.0	1.5	2.0
12	15.0	12.0	13.5	4.0	2.0	3.0	2.5	0.5	1.5	3.0	1.0	2.0
13	15.5	12.5	14.0	4.0	1.0	2.5	3.0	1.0	2.0	3.0	1.0	2.0
14	16.5	12.5	14.0	5.0	2.0	3.0	4.5	1.5	3.0	3.0	1.0	2.0
15	15.0	12.5	14.0	6.0	3.5	4.5	2.5	---	---	3.0	1.0	2.0
16	14.5	11.0	12.5	6.0	3.0	5.0	2.0	---	---	---	---	---
17	13.0	11.0	12.0	4.0	1.5	3.0	2.0	---	---	---	---	---
18	11.5	9.0	10.0	5.5	1.5	3.5	2.0	0.0	1.0	3.0	1.0	2.0
19	12.0	8.5	10.0	6.0	2.5	4.0	2.0	0.0	1.0	3.0	0.5	2.0
20	12.0	9.5	10.5	5.5	3.0	4.5	2.0	0.0	1.0	3.0	1.0	2.0
21	12.5	9.0	10.5	4.0	1.5	3.0	1.5	---	---	3.0	1.0	2.0
22	11.5	9.0	10.0	4.5	2.0	3.0	1.5	---	---	2.5	1.0	2.0
23	10.0	7.5	8.5	4.5	2.0	3.0	1.5	---	---	3.0	1.0	2.0
24	12.0	9.5	10.5	5.0	1.5	3.5	2.0	---	---	2.5	1.0	2.0
25	12.0	9.0	10.5	7.5	4.0	5.5	2.0	---	---	2.5	1.0	2.0
26	9.5	7.0	8.0	7.5	6.0	6.5	3.0	---	---	3.0	1.0	2.0
27	8.5	6.5	7.5	7.0	5.0	6.0	3.0	0.5	1.5	3.0	1.0	2.0
28	7.5	5.5	6.5	6.5	3.5	5.0	3.0	1.0	2.0	2.5	1.0	2.0
29	8.0	4.5	6.0	4.5	1.0	2.5	3.0	1.0	2.0	2.5	1.0	2.0
30	8.0	5.5	6.5	4.5	1.5	3.0	3.0	1.0	2.0	2.0	1.0	1.5
31	7.5	4.5	6.0	---	---	---	3.0	1.0	2.0	2.5	0.5	1.5
MONTH	18.5	4.5	11.5	9.5	1.0	4.5	7.0	0.0	2.7	3.0	0.5	1.9

CONNECTICUT RIVER BASIN

01129440 MOHAWK RIVER NEAR COLEBROOK, NH

LOCATION.--Lat 44°52'28", long 71°24'38", Coos County, Hydrologic Unit 01080101, on right bank, upstream of Bungy Road bridge, south of the intersection of State Highway 26 and Bungy Road, 0.8 mi upstream of Read Brook, 1.7 mi downstream of Roaring Brook, 5 mi east of Colebrook, and 5.5 mi west of Dixville Notch.

DRAINAGE AREA.--36.7 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,220 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

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. 10	0745	633	6.59	May 31	1730	850	7.05
Apr. 10	0345	539	6.36	Jun. 5	2200	654	6.64
Apr. 14	0415	1,720	8.38	Jun. 12	1345	1,200	7.66
Apr. 17	1645	*1,850	* 8.54				

Minimum discharge, 4.8 ft³/s, September 9-11.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	40	100	e19	e28	e35	159	131	283	42	15	6.3
2	11	40	59	e19	e28	e30	128	144	238	44	14	6.1
3	11	37	48	e20	e27	61	182	161	126	38	13	6.1
4	10	33	42	e19	e26	94	156	123	90	33	11	5.9
5	9.8	48	45	e19	e23	52	97	116	155	34	11	5.6
6	13	59	43	e19	e21	44	e77	115	327	41	13	5.4
7	17	44	37	e19	e22	36	e67	107	128	34	23	5.3
8	21	38	32	e19	22	e32	e65	111	93	29	15	5.2
9	23	42	e28	e29	22	59	e126	79	78	34	12	5.1
10	27	35	e28	30	e27	381	374	79	64	32	11	4.9
11	19	32	29	23	e49	e136	215	61	101	31	9.8	9.7
12	15	27	28	23	e54	e90	342	55	815	27	9.3	17
13	13	27	31	23	34	74	609	102	248	24	8.6	8.8
14	12	28	37	e20	30	89	1040	235	138	23	8.4	8.4
15	25	41	34	e19	29	79	712	191	114	28	8.2	58
16	23	61	e25	e19	26	e69	562	143	107	24	8.4	38
17	19	43	e26	e19	26	e61	926	271	103	34	8.1	19
18	20	36	e30	e18	e23	58	780	156	105	67	8.0	12
19	18	34	e29	e18	e22	50	364	123	81	30	9.7	9.4
20	20	47	27	e18	e23	48	237	97	66	35	8.2	8.4
21	29	39	27	e18	e29	e46	158	96	56	22	7.6	8.0
22	60	33	e26	e18	e52	e41	119	75	53	18	7.9	17
23	29	31	e26	e19	42	47	97	61	55	22	10	13
24	26	31	30	e26	37	e42	85	62	81	21	8.2	10
25	68	33	e27	e30	25	e42	80	60	49	16	7.8	8.4
26	62	51	e25	27	31	e40	113	62	100	14	7.3	7.7
27	38	40	e23	26	48	43	89	51	151	14	6.9	16
28	37	36	e23	27	e32	39	79	42	99	14	6.7	168
29	27	36	e22	26	---	40	87	39	54	14	6.7	33
30	25	112	e21	28	---	e89	101	94	42	27	6.9	20
31	23	---	e20	e27	---	130	---	358	---	20	6.5	---
TOTAL	762.8	1234	1028	684	858	2177	8226	3600	4200	886	307.2	545.7
MEAN	24.6	41.1	33.2	22.1	30.6	70.2	274	116	140	28.6	9.91	18.2
MAX	68	112	100	30	54	381	1040	358	815	67	23	168
MIN	9.8	27	20	18	21	30	65	39	42	14	6.5	4.9
CFSM	0.67	1.12	0.90	0.60	0.83	1.91	7.47	3.16	3.81	0.78	0.27	0.50
IN.	0.77	1.25	1.04	0.69	0.87	2.21	8.34	3.65	4.26	0.90	0.31	0.55

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

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	53.9	68.1	57.2	48.7	35.4	86.6	210	103	59.2	39.1	30.4	31.3				
MAX	122	110	127	134	109	231	344	177	140	108	93.3	79.9				
(WY)	1991	1989	1991	1996	1996	1998	1996	1989	2002	1996	1988	1999				
MIN	23.5	33.0	25.9	22.1	13.4	18.8	74.2	51.3	26.7	13.0	9.91	11.1				
(WY)	1998	1995	1990	2002	1993	2001	1995	1998	1992	1991	2002	1995				

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1987 - 2002

ANNUAL TOTAL	18073.0	24508.7	
ANNUAL MEAN	49.5	67.1	68.6
HIGHEST ANNUAL MEAN			104
LOWEST ANNUAL MEAN			44.1
HIGHEST DAILY MEAN	1170	Apr 24	2450
LOWEST DAILY MEAN	8.4	Sep 20	4.9
ANNUAL SEVEN-DAY MINIMUM	8.8	Sep 14	5.3
MAXIMUM PEAK FLOW			1850
MAXIMUM PEAK STAGE			8.54
INSTANTANEOUS LOW FLOW		b 4.8	4.8
ANNUAL RUNOFF (CFSM)	1.35	1.83	1.87
ANNUAL RUNOFF (INCHES)	18.32	24.84	25.40
10 PERCENT EXCEEDS	90	129	136
50 PERCENT EXCEEDS	26	32	39
90 PERCENT EXCEEDS	13	9.7	16

a From rating curve extended above 2,200 ft³/s.
b Also occurred on September 10, 11, 2002.
e Estimated.

01129500 CONNECTICUT RIVER AT NORTH STRATFORD, NH

LOCATION.--Lat 44°44'59", long 71°37'54", Coos County, Hydrologic Unit 01080101, on left bank, at North Stratford, 400 ft downstream from Nulhegan River, 0.3 mi downstream of Vermont State Highway 105 bridge, 12.0 mi southwest of Colebrook, and at mile 344.5.

DRAINAGE AREA.--799 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1930 to current year.

REVISED RECORDS.--WSP 781: 1934(M). WSP 891: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 880.17 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by power plants and by First Connecticut and Second Connecticut Lakes and Lake Francis 36 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,100 ft³/s, April 4, gage height, 12.50 ft; minimum daily discharge, 329 ft³/s, October 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	376	692	3660	e1180	e1300	920	2900	2900	6350	1170	761	765
2	359	947	2500	e1170	e1400	991	3150	3280	4830	984	659	759
3	347	1090	1680	e1150	e1400	1090	3150	4160	3340	1220	627	750
4	338	1160	1340	e1160	e1390	1990	3770	4200	2440	987	598	746
5	329	1140	1250	e1170	e1400	1560	2700	3350	2290	854	577	739
6	332	1470	1240	e1180	e1340	1450	2100	2920	5520	1160	591	713
7	380	1280	1090	e1190	e1300	1300	1740	2590	3630	1070	1270	491
8	425	1050	922	e1180	e1350	1080	1670	2520	2520	872	987	467
9	453	954	800	e1170	e1280	1140	2220	2130	2070	889	793	482
10	473	925	659	e1160	e1270	5240	6610	1980	1760	948	685	457
11	492	858	666	e1190	1580	4990	5980	1780	1770	770	620	495
12	440	767	632	e1210	1370	3120	5660	1590	11900	656	584	564
13	388	658	614	e1200	1500	2400	9870	1750	9770	587	616	546
14	356	636	814	e1190	1290	2180	18200	3500	5120	548	818	514
15	399	673	886	e1180	e1370	2250	18000	4130	3510	535	851	873
16	546	1040	e500	e1170	e1380	1960	12800	3720	2930	608	842	1190
17	512	1250	e430	e1200	1380	1680	12500	4450	2770	586	833	1000
18	492	943	e500	e1160	e1300	1580	14500	4230	2720	845	819	755
19	456	813	e640	e1140	e1270	1430	11400	3440	2350	770	859	634
20	428	793	711	e1100	e1240	1290	8050	2940	1980	903	842	575
21	433	846	665	e1110	1350	1210	6360	2690	1710	774	819	464
22	972	735	566	e1120	1020	1030	5080	2430	1540	704	817	497
23	862	658	436	e1140	921	904	3260	1890	1530	746	850	531
24	680	613	e500	e1200	735	993	2300	1720	2130	1040	833	489
25	840	601	e560	e1550	757	843	2020	1500	1560	849	817	454
26	1900	829	583	e1510	749	857	2430	1440	1540	727	804	433
27	1320	955	e800	e1490	1190	808	2370	1400	2520	665	791	393
28	1070	810	e950	e1460	1140	943	2050	1270	2450	651	778	2790
29	877	772	e1100	e1450	---	856	2130	1180	1840	636	778	1900
30	749	2000	e1160	e1400	---	1130	2280	1220	1380	693	779	1050
31	657	---	e1190	e1350	---	2230	---	4150	---	891	772	---
TOTAL	18681	27958	30044	38230	34972	51445	177250	82450	97770	25338	24070	22516
MEAN	603	932	969	1233	1249	1660	5908	2660	3259	817	776	751
MAX	1900	2000	3660	1550	1580	5240	18200	4450	11900	1220	1270	2790
MIN	329	601	430	1100	735	808	1670	1180	1380	535	577	393

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2002, BY WATER YEAR (WY)

MEAN	1279	1590	1531	1365	1223	1640	3932	2539	1283	899	838	915
MAX	3445	3119	3095	2537	3295	6254	7348	6018	3724	2818	2475	3203
(WY)	1978	1960	1974	1998	1981	1936	1934	1972	1943	1996	1976	1954
MIN	355	583	643	549	350	271	1206	843	472	292	220	357
(WY)	1949	1948	1948	1948	1940	1940	1995	1998	1962	1955	1940	1949

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1930 - 2002
ANNUAL TOTAL	483489	630724	
ANNUAL MEAN	1325	1728	1585
HIGHEST ANNUAL MEAN			2246
LOWEST ANNUAL MEAN			1033
HIGHEST DAILY MEAN	17500	Apr 24	28000
LOWEST DAILY MEAN	291	Sep 20	108
ANNUAL SEVEN-DAY MINIMUM	310	Sep 14	128
MAXIMUM PEAK FLOW			32300
MAXIMUM PEAK STAGE		12.50	Apr 14
10 PERCENT EXCEEDS	2170		3030
50 PERCENT EXCEEDS	892		1120
90 PERCENT EXCEEDS	429		460

a Ice Jam. From floodmarks in well.
e Estimated.

CONNECTICUT RIVER BASIN

01129500 CONNECTICUT RIVER AT NORTH STRATFORD, NH--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June 1999 to current year.

INSTRUMENTATION.--Water-temperature recorder since June 16, 1999, provides continuous recordings.

REMARKS.--Records poor.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.5	10.5	12.5	6.0	4.0	5.0	6.0	3.5	5.0	---	---	---			
2	15.5	11.5	13.5	9.0	5.5	7.0	6.0	5.0	5.5	---	---	---			
3	15.5	12.0	13.5	10.5	8.5	9.0	5.5	4.5	5.0	---	---	---			
4	17.0	13.0	15.0	9.5	7.5	9.0	5.5	4.0	5.0	---	---	---			
5	17.0	14.0	15.5	8.0	6.0	7.0	6.0	4.5	5.0	---	---	---			
6	15.0	12.5	14.0	6.5	4.5	5.5	7.0	5.0	6.0	---	---	---			
7	12.5	10.5	11.5	5.0	3.5	4.5	6.0	3.5	5.0	---	---	---			
8	10.5	8.0	9.5	4.5	2.5	3.5	4.0	2.0	3.0	---	---	---			
9	10.5	7.0	8.5	4.0	3.0	3.5	2.5	0.0	1.5	---	---	---			
10	11.5	8.0	9.5	4.0	3.0	3.5	---	---	---	---	---	---			
11	12.5	8.0	10.0	3.5	2.0	3.0	---	---	---	---	---	---			
12	13.5	10.5	12.0	3.0	1.5	2.0	---	---	---	---	---	---			
13	15.5	12.0	13.5	2.5	0.0	1.5	2.5	0.5	1.5	---	---	---			
14	15.5	11.5	13.5	2.5	1.0	2.0	3.5	1.5	2.5	---	---	---			
15	14.5	11.5	13.0	4.5	2.0	3.0	2.5	0.0	1.5	---	---	---			
16	14.0	10.5	12.0	6.0	4.0	5.0	---	---	---	---	---	---			
17	12.0	9.5	11.0	5.0	3.0	4.0	---	---	---	---	---	---			
18	10.0	7.5	8.5	4.0	2.0	3.0	---	---	---	---	---	---			
19	9.0	6.5	7.5	4.5	2.0	3.0	---	---	---	---	---	---			
20	8.5	7.0	7.5	5.0	3.5	4.0	---	---	---	---	---	---			
21	9.5	6.5	8.0	4.0	2.0	3.0	---	---	---	---	---	---			
22	10.5	8.0	9.0	3.0	1.5	2.5	---	---	---	---	---	---			
23	9.0	7.5	8.0	3.5	1.0	2.0	---	---	---	---	---	---			
24	11.0	8.5	9.5	3.5	1.0	2.5	---	---	---	---	---	---			
25	11.5	9.5	10.5	6.5	3.0	4.5	---	---	---	---	---	---			
26	10.0	8.0	9.0	7.0	5.5	6.5	---	---	---	---	---	---			
27	8.0	7.0	7.5	7.5	6.5	6.5	---	---	---	---	---	---			
28	7.5	5.5	6.5	7.0	5.0	6.0	---	---	---	---	---	---			
29	6.0	4.0	5.0	5.5	3.0	4.0	---	---	---	---	---	---			
30	6.0	4.0	5.0	4.0	3.0	3.5	---	---	---	---	---	---			
31	5.5	3.5	4.5	---	---	---	---	---	---	---	---	---			
MONTH	17.0	3.5	10.1	10.5	0.0	4.3	---	---	---	---	---	---			

CONNECTICUT RIVER BASIN

01129500 CONNECTICUT RIVER AT NORTH STRATFORD, NH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	6.5	4.5	5.5
2	---	---	---	---	---	---	---	---	---	6.0	3.5	5.0
3	---	---	---	---	---	---	---	---	---	4.5	3.5	4.0
4	---	---	---	---	---	---	---	---	---	6.0	3.0	4.5
5	---	---	---	---	---	---	---	---	---	9.0	5.0	7.0
6	---	---	---	---	---	---	---	---	---	9.5	6.5	8.0
7	---	---	---	---	---	---	---	---	---	10.5	8.0	9.5
8	---	---	---	---	---	---	---	---	---	11.5	8.5	10.0
9	---	---	---	---	---	---	---	---	---	10.0	8.0	9.0
10	---	---	---	---	---	---	4.5	1.5	2.5	12.0	8.0	9.5
11	---	---	---	---	---	---	3.5	1.0	2.5	12.5	8.5	10.0
12	---	---	---	---	---	---	5.5	3.0	4.5	9.5	8.0	9.0
13	---	---	---	---	---	---	5.5	3.0	4.0	8.5	6.0	7.0
14	---	---	---	---	---	---	4.5	2.5	3.5	6.5	5.0	5.5
15	---	---	---	---	---	---	4.5	3.5	4.0	6.5	5.0	6.0
16	---	---	---	---	---	---	6.5	3.5	5.0	6.5	5.0	6.0
17	---	---	---	---	---	---	8.0	6.0	7.0	9.0	6.0	8.0
18	---	---	---	---	---	---	10.0	7.0	8.0	8.5	6.0	7.5
19	---	---	---	---	---	---	10.0	8.5	9.0	7.0	6.0	6.5
20	---	---	---	---	---	---	9.5	7.0	8.0	7.0	5.5	6.0
21	---	---	---	---	---	---	7.5	4.5	5.5	7.5	6.0	7.0
22	---	---	---	---	---	---	5.5	3.5	4.0	9.5	6.0	8.0
23	---	---	---	---	---	---	5.0	4.0	4.5	13.0	8.0	10.5
24	---	---	---	---	---	---	7.0	3.5	5.0	12.5	10.0	11.0
25	---	---	---	---	---	---	8.5	5.0	6.5	13.0	8.5	11.0
26	---	---	---	---	---	---	7.5	5.0	6.0	13.5	9.5	11.5
27	---	---	---	---	---	---	6.5	4.0	5.5	15.0	9.5	12.0
28	---	---	---	---	---	---	5.5	3.0	4.5	16.0	12.0	14.0
29	---	---	---	---	---	---	4.0	2.0	3.0	18.0	12.5	15.0
30	---	---	---	---	---	---	6.0	2.5	4.0	16.0	14.5	15.5
31	---	---	---	---	---	---	---	---	---	15.5	12.5	13.5
MONTH	---	---	---	---	---	---	---	---	---	18.0	3.0	8.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.5	12.5	13.5	19.5	16.5	18.0	22.5	18.0	20.5	19.5	15.5	17.5
2	14.5	11.5	13.5	20.5	17.0	18.5	22.0	19.0	20.0	19.0	15.0	17.5
3	12.5	10.0	11.0	22.5	18.5	20.0	22.5	18.0	20.0	21.5	16.5	19.0
4	13.5	9.5	11.5	23.0	20.0	21.5	21.5	17.5	19.5	21.5	18.0	19.5
5	14.0	11.5	12.5	21.0	18.5	19.5	21.0	18.5	19.5	20.5	17.5	19.0
6	13.5	12.0	12.5	18.5	16.0	17.5	19.5	16.0	17.5	19.5	15.0	17.0
7	14.5	11.5	13.0	19.0	15.5	17.0	18.0	15.5	16.5	20.0	15.0	17.5
8	15.0	12.0	13.5	20.5	16.5	18.0	19.5	14.5	17.0	21.5	16.5	19.0
9	16.0	12.0	14.0	20.5	18.0	19.0	20.5	15.5	18.0	23.0	18.0	20.0
10	16.0	12.5	14.0	19.0	17.0	18.5	20.0	16.0	18.5	22.5	18.0	20.0
11	14.0	11.5	13.0	18.5	16.0	16.5	22.0	16.5	19.0	20.0	15.5	18.5
12	12.0	10.0	11.0	19.5	14.5	17.0	22.5	18.0	20.0	17.0	14.5	15.5
13	13.0	10.5	11.5	19.5	15.5	17.5	22.5	18.5	20.5	16.0	13.5	14.5
14	13.5	12.0	12.5	22.0	16.5	19.0	22.5	18.0	20.5	18.0	14.0	16.0
15	13.5	11.0	12.5	22.0	17.5	19.5	22.5	17.0	19.5	18.0	16.5	17.0
16	11.5	10.0	11.0	19.0	16.0	17.5	21.5	17.5	19.5	17.5	15.5	16.5
17	12.0	10.0	11.0	17.5	15.0	16.0	22.5	17.5	19.5	17.5	14.5	16.0
18	13.0	11.5	12.0	17.5	15.5	16.0	22.0	16.5	19.0	19.0	15.0	16.5
19	14.5	11.5	13.0	18.0	15.0	16.5	21.0	17.0	19.0	19.0	15.0	17.0
20	17.5	13.0	15.0	20.0	15.5	17.5	21.0	17.0	18.5	19.0	16.0	17.5
21	18.5	13.5	16.0	21.0	16.0	18.5	20.5	15.0	17.5	20.5	17.5	19.0
22	17.5	15.5	16.0	22.0	17.5	19.5	18.0	15.5	17.0	20.5	18.5	19.5
23	17.5	14.0	15.5	20.5	18.0	19.5	19.5	14.5	17.0	19.5	16.5	18.5
24	18.5	14.5	16.0	19.5	15.5	17.5	18.5	15.5	17.0	19.0	15.0	16.5
25	17.5	14.5	16.0	20.0	15.0	17.5	19.0	14.0	16.5	18.5	14.0	16.0
26	18.5	14.0	16.0	20.0	15.5	18.0	20.5	15.0	17.5	18.5	14.5	16.0
27	19.5	15.5	17.0	18.5	16.0	17.0	20.5	15.5	18.0	16.5	14.5	15.5
28	19.5	17.0	18.0	20.0	16.0	17.5	19.5	14.5	17.0	15.0	12.5	13.5
29	20.0	16.5	18.0	20.5	17.5	18.5	17.5	14.5	16.0	13.5	11.5	12.0
30	20.0	16.0	18.0	20.5	17.5	19.0	19.5	14.5	17.0	13.0	10.5	12.0
31	---	---	---	22.0	17.0	19.5	21.0	15.5	18.0	---	---	---
MONTH	20.0	9.5	13.9	23.0	14.5	18.1	22.5	14.0	18.4	23.0	10.5	17.0

CONNECTICUT RIVER BASIN

01133000 EAST BRANCH PASSUMPSIC RIVER NEAR EAST HAVEN, VT

LOCATION.--Lat 44°38'02", long 71°53'53", Caledonia County, Hydrologic Unit 01080102, on right bank, in Town of Burke, downstream of Watkins Road, 0.5 mi upstream from Flower Brook, 0.9 mi south of Hartwellville, 2.1 mi south of East Haven, 4.2 mi east of Post Office in West Burke, and 8.4 mi upstream from mouth.

DRAINAGE AREA.--53.8 mi².

PERIOD OF RECORD.--Discharge records: July 1939 to October 1945, October 1948 to September 1979, October 1997 to current year. Prior to October 1951, published as Passumpsic River near East Haven.

REVISED RECORDS.--WSP 1141: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 943.88 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to October 1, 1973, at datum 2.00 ft higher.

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

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)
Apr. 14	0900	1,510	6.82	Jun. 06	0245	969	5.56
Apr. 15	0915	1,220	6.16	Jun. 12	1000	* 3,840	*10.65
Apr. 18	0800	1,200	6.13				

Minimum discharge, 14 ft³/s, September 11.

REVISIONS.--The maximum discharges for some water years have been revised, as shown in the following table. They supersede figures published in WRD NH-VT-98-1, WRD NH-VT-99-1, WRD NH-VT-00-1, WRD NH-VT-01-1.

Water year	Date	Discharge (ft ³ /s)	Gage height (ft)	Water year	Date	Discharge (ft ³ /s)	Gage height (ft)
1998	Mar. 31	1,790	7.38	2000	May 11	2,330	8.36
1998	Apr. 01	1,610	7.02	2001	Dec 18	2,400	8.47
1999	Sep. 17	1,740	7.28	2001	Apr 24	1,850	7.49

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	45	175	e46	e53	e125	241	244	e350	106	59	19
2	22	52	102	e44	e53	e110	234	259	e255	99	50	21
3	22	53	77	e44	e52	132	228	288	e209	91	46	19
4	22	46	66	e43	e52	189	212	237	171	83	41	18
5	22	68	77	e42	e50	126	153	196	220	92	40	17
6	24	81	84	e46	e49	119	126	174	615	98	38	18
7	26	62	69	e48	e50	76	113	161	271	86	53	16
8	28	52	e53	e47	e49	60	112	161	197	74	46	16
9	27	53	e47	e46	e51	78	205	140	165	138	39	16
10	27	50	e43	e48	e70	482	421	145	138	116	35	16
11	25	48	e46	e57	e105	252	297	122	181	82	33	28
12	25	43	49	e62	e75	168	426	118	2310	69	31	51
13	26	40	50	e55	e60	121	829	248	768	64	29	31
14	24	39	64	e45	e53	117	1260	437	414	59	28	30
15	54	44	62	e41	e51	122	1030	322	322	59	27	126
16	47	59	e49	e38	e50	107	842	261	316	54	26	97
17	38	51	e51	e38	e50	95	883	462	273	56	25	56
18	34	45	e55	e37	e47	88	952	287	236	188	24	40
19	30	42	e54	e37	e48	82	556	230	204	96	24	32
20	30	47	e51	e36	e50	76	383	190	167	75	25	29
21	33	45	e48	e35	e53	76	295	172	145	60	24	28
22	88	41	e46	e36	e118	66	249	154	138	54	23	44
23	51	39	e42	e38	e100	70	226	138	151	95	29	40
24	50	38	e55	e47	e93	68	204	128	218	79	25	31
25	75	39	e53	e49	e95	71	192	118	135	58	24	27
26	85	64	e50	e53	e112	67	240	132	144	51	23	26
27	54	54	e48	e59	e165	75	204	119	364	51	21	54
28	45	52	e45	e70	e129	73	182	104	376	52	20	390
29	38	56	e46	e62	---	71	238	96	178	80	20	94
30	36	147	e46	e57	---	123	231	104	125	139	22	62
31	32	---	e47	e55	---	194	---	276	---	90	20	---

TOTAL	1162	1595	1850	1461	1983	3679	11764	6223	9756	2594	970	1492
MEAN	37.5	53.2	59.7	47.1	70.8	119	392	201	325	83.7	31.3	49.7
MAX	88	147	175	70	165	482	1260	462	2310	188	59	390
MIN	22	38	42	35	47	60	112	96	125	51	20	16
CFSM	0.70	0.99	1.11	0.88	1.32	2.21	7.29	3.73	6.04	1.56	0.58	0.92
IN.	0.80	1.10	1.28	1.01	1.37	2.54	8.13	4.30	6.75	1.79	0.67	1.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 79, 1998 - 2002, BY WATER YEAR (WY)

MEAN	81.7	100	85.2	64.8	54.5	95.6	291	212	111	67.8	55.0	61.0
MAX	218	232	250	148	114	244	469	423	325	241	121	177
(WY)	1946	1960	1974	1978	1976	1953	1954	1972	2002	1973	1962	1954
MIN	24.4	39.3	41.0	21.4	16.9	20.5	154	76.1	48.9	31.7	19.8	28.3
(WY)	1949	1979	1956	1940	1940	1940	1972	1998	1953	1955	1999	1978

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1939 -79, 1998 - 2002
ANNUAL TOTAL	32054	44529	
ANNUAL MEAN	87.8	122	106
HIGHEST ANNUAL MEAN			166
LOWEST ANNUAL MEAN			76.0
HIGHEST DAILY MEAN	1530	Apr 24	2310
LOWEST DAILY MEAN	12	Aug 15	a 16
ANNUAL SEVEN-DAY MINIMUM	14	Sep 14	17
MAXIMUM PEAK FLOW			3840
MAXIMUM PEAK STAGE			10.65
INSTANTANEOUS LOW FLOW			14
ANNUAL RUNOFF (CFSM)	1.63	2.27	1.98
ANNUAL RUNOFF (INCHES)	22.16	30.79	26.88
10 PERCENT EXCEEDS	160	248	230
50 PERCENT EXCEEDS	53	59	64
90 PERCENT EXCEEDS	22	26	30

a Also occurred on September 8-10.
 b Also occurred on August 15, 16, 2001.
 c Also occurred on August 16, 2001.
 e Estimated.

CONNECTICUT RIVER BASIN

01134500 MOOSE RIVER AT VICTORY, VT

LOCATION.--Lat 44°30'42", long 71°50'13", Essex County, Hydrologic Unit 01080102, on right bank, 0.5 mi northeast of Victory, 0.8 mi downstream from Cold Brook, 1.1 mi upstream from Stanley Brook, 3.1 mi north of North Concord, and 5.1 mi southwest of Burke Road and River Road intersection in Gallup Mills.

DRAINAGE AREA.--75.2 mi².

PERIOD OF RECORD.--Discharge records: January 1947 to current year.

REVISED RECORDS.--WSP 1381: Drainage area. WDR NH-VT-96-1: 1973(M), 1995(M).

GAGE.--Water-stage recorder. Datum of gage is 1,103.99 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

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)
Apr. 14	1415	* 2,410	* 9.54	Jun. 12	1945	1,690	8.57

Minimum discharge, 3.2 ft³/s, September 7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	56	440	e33	e47	e104	448	354	154	136	65	7.6
2	23	91	251	e33	e50	e82	495	342	151	107	48	6.9
3	20	93	157	e32	e46	e122	441	438	103	96	41	6.3
4	19	83	121	e32	e43	e190	500	409	58	77	34	5.5
5	17	94	128	e32	e39	e240	346	298	56	70	31	4.9
6	17	144	143	e32	e37	e155	251	249	84	92	30	4.1
7	31	112	120	e32	e36	e112	207	233	63	74	110	3.7
8	35	94	96	e31	e35	e92	198	230	48	57	64	6.5
9	35	86	83	e33	e36	e85	261	177	40	162	42	8.0
10	35	85	64	e35	e36	e275	756	176	37	162	33	10
11	33	75	67	e39	e49	e850	852	150	42	89	28	12
12	27	63	62	e37	e102	617	721	130	858	62	24	31
13	23	51	65	e36	e77	339	1180	221	786	50	21	34
14	21	53	86	e36	e55	268	2150	654	e220	45	19	30
15	38	56	90	e35	e49	290	1980	786	e190	40	18	86
16	78	98	63	e35	e47	251	1510	604	e205	37	16	144
17	48	107	57	e34	e45	197	1400	639	e230	34	15	77
18	42	77	65	e34	e43	174	1330	733	197	96	13	42
19	37	66	67	e34	e41	149	1010	448	166	93	12	30
20	33	73	64	e33	e40	134	634	298	132	660	e12	23
21	37	84	61	e33	e57	128	371	244	103	378	13	21
22	184	66	e54	e33	e82	112	261	213	92	121	11	26
23	113	59	e52	e33	e113	113	228	178	115	138	13	36
24	78	53	e54	e41	e79	115	200	147	258	194	14	28
25	82	53	e55	e62	e69	97	173	136	142	92	12	21
26	202	117	e51	e74	e73	93	240	134	103	65	11	18
27	108	114	e47	e60	e122	99	222	138	263	53	9.8	20
28	82	94	e42	e55	e142	128	185	130	667	53	8.3	446
29	63	92	e39	e49	---	113	242	130	557	50	7.7	245
30	54	281	e37	e45	---	144	313	130	209	106	8.3	83
31	48	---	e34	e41	---	346	---	141	---	132	8.5	---
TOTAL	1689	2670	2815	1204	1690	6214	19105	9290	6329	3621	792.6	1516.5
MEAN	54.5	89.0	90.8	38.8	60.4	200	637	300	211	117	25.6	50.6
MAX	202	281	440	74	142	850	2150	786	858	660	110	446
MIN	17	51	34	31	35	82	173	130	37	34	7.7	3.7
CFSM	0.72	1.18	1.21	0.52	0.80	2.67	8.47	3.99	2.81	1.55	0.34	0.67
IN.	0.84	1.32	1.39	0.60	0.84	3.07	9.45	4.60	3.13	1.79	0.39	0.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2002, BY WATER YEAR (WY)

	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	108	146	118	81.2	73.1	165	492	270	116	70.7	64.4	65.2																																												
MAX	353	376	386	210	429	468	806	674	299	236	242	323																																												
(WY)	1991	1960	1974	1998	1981	1953	1954	1972	1973	1973	1995	1954																																												
MIN	14.1	35.9	21.8	12.7	15.7	32.9	172	72.3	31.1	10.8	9.00	8.34																																												
(WY)	1948	1948	1948	1948	1980	1956	1995	1999	1988	1991	2001	1948																																												

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1947 - 2002
ANNUAL TOTAL	39714.4	56936.1	
ANNUAL MEAN	109	156	147
HIGHEST ANNUAL MEAN			205
LOWEST ANNUAL MEAN			102
HIGHEST DAILY MEAN	2240	2150	4100
LOWEST DAILY MEAN	2.5	3.7	2.5
ANNUAL SEVEN-DAY MINIMUM	4.1	5.4	3.6
MAXIMUM PEAK FLOW		2410	4940
MAXIMUM PEAK STAGE		9.54	12.04
INSTANTANEOUS LOW FLOW		3.2	a 2.2
ANNUAL RUNOFF (CFSM)	1.45	2.07	1.95
ANNUAL RUNOFF (INCHES)	19.65	28.17	26.56
10 PERCENT EXCEEDS	206	346	348
50 PERCENT EXCEEDS	56	77	72
90 PERCENT EXCEEDS	10	21	21

a Also occurred on August 17, 2001.
e Estimated.

CONNECTICUT RIVER BASIN

01135150 POPE BROOK (SITE W-3) NEAR NORTH DANVILLE, VT

LOCATION.--Lat 44°28'35", long 72°07'31", Caledonia County, Hydrologic Unit 01080102, on left bank, 200 ft upstream of Morrill Flat Road, 0.3 mi north of Pope Cemetery, 1.1 mi upstream of North Brook, 1.7 mi northwest of North Danville, 4.5 mi north of Danville, and 6.4 mi northwest of Court House in St. Johnsbury.

DRAINAGE AREA.--3.25 mi².

PERIOD OF RECORD.--Discharge records: December 1990 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,141.20 ft above National Geodetic Vertical Datum of 1929.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 1960-1990, 380 ft³/s, June 30, 1973, gage height, 3.4 ft (data provided by USACOE-CRREL).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 70 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 14	0320	109	2.21	Jun. 27	2005	98	2.13
Apr. 15	0910	109	2.21	Jul. 18	0225	177	2.63
Jun. 12	1000	*185	*2.67	Sept. 15	1030	109	2.21
Jun. 26	2000	96	2.11				

Minimum discharge, 0.80 ft³/s, October 2-6.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.86	1.4	4.6	1.3	e1.6	2.2	17	17	11	6.3	3.1	1.2
2	0.84	1.3	2.3	1.3	e1.6	1.9	15	16	6.8	6.0	2.9	1.1
3	0.84	1.4	1.9	e1.3	e1.5	4.6	15	17	5.4	5.3	2.6	1.1
4	0.83	1.2	1.8	e1.3	e1.5	4.5	12	11	4.7	8.7	2.4	1.1
5	0.80	1.9	2.4	1.3	e1.5	e2.7	9.5	9.9	6.2	6.1	2.2	1.0
6	0.99	1.8	2.3	1.4	1.5	2.5	8.4	9.2	6.8	5.9	2.3	1.0
7	1.3	1.4	1.9	1.5	1.4	2.2	8.2	8.7	4.8	5.3	2.3	1.0
8	1.3	1.2	1.7	1.4	1.4	2.1	8.3	8.3	4.1	5.3	2.0	1.00
9	1.2	1.4	1.6	1.4	1.3	3.0	17	7.7	3.8	21	1.9	0.96
10	1.0	1.3	1.5	1.7	e1.4	22	26	7.3	3.3	7.4	1.8	0.94
11	0.96	1.4	1.5	2.0	e1.7	6.7	21	6.5	13	5.3	1.7	1.4
12	0.93	1.3	1.4	1.8	e1.6	5.8	34	7.2	81	4.5	1.6	1.5
13	0.91	1.2	1.7	1.7	e1.5	5.0	53	21	18	3.9	1.6	1.2
14	0.89	1.3	2.0	e1.7	e1.5	6.3	85	30	12	3.5	1.5	1.2
15	2.2	1.4	1.9	e1.6	e1.4	6.7	78	20	12	3.2	1.5	10
16	1.3	2.0	1.5	1.5	1.4	6.2	58	14	11	3.0	1.4	2.9
17	1.6	1.5	1.6	1.5	1.5	4.4	50	20	9.6	3.1	1.3	1.7
18	1.5	1.4	1.7	1.5	1.4	4.1	40	14	8.9	52	1.4	1.4
19	1.2	1.3	1.6	e1.4	1.4	3.9	26	12	8.4	11	1.5	1.3
20	1.1	1.9	1.6	1.4	1.4	e3.7	19	10	7.6	e14	1.5	1.2
21	2.5	1.6	1.6	1.4	2.4	e3.6	15	9.6	7.0	e7.6	1.3	1.2
22	3.2	1.4	1.4	1.4	2.9	3.5	14	8.5	7.4	e5.4	1.6	1.7
23	1.4	1.3	1.8	1.5	2.1	3.7	14	7.7	12	e5.2	1.6	1.4
24	1.3	1.3	1.7	2.1	1.9	3.6	12	7.4	11	4.2	1.4	1.2
25	2.7	1.4	1.5	2.3	1.8	3.7	12	6.8	6.3	3.6	1.3	1.2
26	1.9	2.2	1.5	1.9	2.2	3.4	13	6.9	18	3.2	1.3	1.1
27	1.4	1.6	1.4	1.8	2.8	4.5	9.9	6.2	26	3.7	1.2	7.8
28	1.3	1.6	e1.4	1.7	2.1	4.0	9.8	5.6	17	3.5	1.2	10
29	1.1	2.3	1.4	1.7	---	4.2	18	5.2	9.0	3.6	1.2	2.3
30	1.1	5.8	1.3	1.6	---	7.6	16	5.4	7.1	9.1	1.3	1.7
31	1.1	---	1.3	1.5	---	11	---	9.4	---	4.0	1.2	---
TOTAL	41.55	49.5	54.8	48.9	47.7	153.3	734.1	345.5	359.2	233.9	53.1	63.80
MEAN	1.34	1.65	1.77	1.58	1.70	4.95	24.5	11.1	12.0	7.55	1.71	2.13
MAX	3.2	5.8	4.6	2.3	2.9	22	85	30	81	52	3.1	10
MIN	0.80	1.2	1.3	1.3	1.3	1.9	8.2	5.2	3.3	3.0	1.2	0.94
CFSM	0.41	0.51	0.54	0.49	0.52	1.52	7.53	3.43	3.68	2.32	0.53	0.65
IN.	0.48	0.57	0.63	0.56	0.55	1.75	8.40	3.95	4.11	2.68	0.61	0.73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2002, BY WATER YEAR (WY)

	1991	1996	1997	1998	1999	2000	2001	2002				
MEAN	3.64	5.18	4.91	4.65	3.42	6.03	19.7	9.21	4.89	3.50	2.78	2.53
MAX	6.54	11.4	9.22	9.04	8.16	10.9	25.4	16.5	12.0	7.79	6.00	4.90
(WY)	1996	1996	1997	1996	1996	1998	1994	2000	2002	1998	1997	1999
MIN	1.34	1.65	1.77	1.58	1.70	2.13	6.87	4.51	1.84	1.40	0.85	1.02
(WY)	2002	2002	2002	2002	2002	2001	1995	1998	1995	1991	2001	2001

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1991 - 2002

ANNUAL TOTAL	1494.81	2185.35	
ANNUAL MEAN	4.10	5.99	5.93
HIGHEST ANNUAL MEAN			8.44
LOWEST ANNUAL MEAN			3.93
HIGHEST DAILY MEAN	90	Apr 24	90
LOWEST DAILY MEAN	a 0.71	Aug 25	a 0.71
ANNUAL SEVEN-DAY MINIMUM	0.74	Sep 14	0.74
MAXIMUM PEAK FLOW		b 185	b 249
MAXIMUM PEAK STAGE		0.92	0.74
INSTANTANEOUS LOW FLOW		2.67	2.96
ANNUAL RUNOFF (CFSM)	1.26	1.84	1.82
ANNUAL RUNOFF (INCHES)	17.11	25.01	24.79
10 PERCENT EXCEEDS	7.5	14	12
50 PERCENT EXCEEDS	2.0	2.1	3.4
90 PERCENT EXCEEDS	0.86	1.2	1.4

a Also occurred on August 26, 2001.

b From rating curve extended above 84 ft³/s on basis of theoretical weir formula.

c Also occurred on August 24-26, September 9, 2001.

e Estimated.

01135300 SLEEPERS RIVER (SITE W-5) NEAR ST. JOHNSBURY, VT

LOCATION.--Lat 44°26'07", long 72°02'20", Caledonia County, Hydrologic Unit 01080102, on left bank, just upstream of Emerson Falls, 0.6 mi upstream of US 2 bridge, 1.5 mi northwest of Post Office in St. Johnsbury, and 2.7 mi above mouth.

DRAINAGE AREA.--42.9 mi².

PERIOD OF RECORD.--Discharge records: October 1990 to current year.

GAGE.--Water-stage recorder. Datum of gage is 641.68 ft above National Geodetic Vertical Datum of 1929.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 603 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 10	0600	Ice Jam	a 3.82	Jun. 12	1100	* 2,160	* 4.30
Apr. 14	0430	1,030	3.20	Jul. 18	0415	1,560	3.77
Apr. 15	0915	1,230	3.43	Jul. 19	2230	1,450	3.66

Minimum discharge, 2.7 ft³/s, October 8, September 10, 11.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	10	76	e10	e15	30	248	181	101	60	37	5.1
2	3.6	11	35	e10	e15	27	241	179	68	54	32	4.6
3	3.4	11	23	e10	e14	43	206	185	51	49	28	4.4
4	3.1	10	19	e10	e14	e60	178	127	42	56	23	4.3
5	2.9	13	23	e10	e14	e42	128	102	45	51	21	3.9
6	3.0	18	26	e11	e13	e32	111	89	66	45	19	3.5
7	4.4	14	21	e12	e13	29	107	81	46	43	20	3.2
8	5.3	11	17	e12	13	26	107	78	36	38	18	3.1
9	5.7	10	15	12	e13	38	196	72	33	237	16	3.0
10	5.3	10	11	12	e14	e360	327	69	28	81	14	2.7
11	4.7	10	12	16	e18	e130	222	59	96	52	13	3.2
12	4.1	9.9	12	19	e17	e86	313	63	1090	41	11	6.3
13	3.9	8.2	14	17	e16	e72	481	231	224	34	10	5.3
14	3.6	9.0	20	15	e15	88	762	367	124	30	9.9	5.0
15	8.4	9.7	21	14	e14	91	739	218	111	27	9.2	56
16	11	12	12	13	e14	e72	448	157	124	24	8.5	39
17	9.8	16	13	e13	e14	e70	384	211	102	23	7.9	19
18	11	12	17	e13	e13	e64	322	154	86	456	7.0	12
19	8.6	11	16	e13	e13	51	215	136	73	275	7.5	8.8
20	7.4	13	15	e13	13	e48	168	106	62	261	7.7	7.6
21	7.7	15	15	e12	20	e46	140	96	54	83	7.1	7.0
22	41	12	13	e12	36	41	130	85	56	61	7.0	11
23	18	10	11	12	e30	46	138	76	82	55	10	11
24	13	9.7	16	15	e26	43	125	70	164	52	8.0	8.5
25	19	10	14	e26	24	40	113	65	70	41	7.5	7.2
26	29	20	12	e24	27	37	150	64	102	35	6.5	6.4
27	15	18	12	22	e36	50	108	59	275	37	5.7	19
28	12	15	11	20	e32	57	105	51	247	37	5.1	167
29	9.7	17	e11	19	---	e62	227	46	107	37	5.3	36
30	8.6	66	e11	18	---	129	183	48	72	127	6.7	20
31	8.1	---	e11	15	---	190	---	63	---	62	5.8	---
TOTAL	294.1	421.5	555	450	516	2200	7322	3588	3837	2564	394.4	493.1
MEAN	9.49	14.1	17.9	14.5	18.4	71.0	244	116	128	82.7	12.7	16.4
MAX	41	66	76	26	36	360	762	367	1090	456	37	167
MIN	2.9	8.2	11	10	13	26	105	46	28	23	5.1	2.7
CFSM	0.22	0.33	0.42	0.34	0.43	1.65	5.69	2.70	2.98	1.93	0.30	0.38
IN.	0.25	0.37	0.48	0.39	0.45	1.91	6.35	3.11	3.33	2.22	0.34	0.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2002, BY WATER YEAR (WY)

	1991	1991	1991	1996	1996	1998	1998	1998	2000	2000	1998	1998	1999	1999	1999
MEAN	49.2	64.3	62.7	55.1	40.9	85.3	218	99.9	50.7	37.9	31.4	25.6			
MAX	128	124	143	108	93.3	142	302	198	128	84.2	97.9	56.9			
(WY)	1991	1991	1991	1996	1996	1998	1994	2000	2002	1998	1998	1999			
MIN	9.49	14.0	17.9	14.5	18.4	26.2	75.2	48.8	14.9	8.47	2.11	4.52			
(WY)	2002	2002	2002	2002	2002	2001	1995	1998	1995	1991	2001	2001			

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1991 - 2002

ANNUAL TOTAL	15856.6	22635.1	
ANNUAL MEAN	43.4	62.0	68.4
HIGHEST ANNUAL MEAN			93.2
LOWEST ANNUAL MEAN			42.8
HIGHEST DAILY MEAN		1090	1380
LOWEST DAILY MEAN	a 1.1	2.7	a 1.1
ANNUAL SEVEN-DAY MINIMUM	1.4	3.2	1.4
MAXIMUM PEAK FLOW		b 2160	b 7570
MAXIMUM PEAK STAGE		4.30	7.11
INSTANTANEOUS LOW FLOW		2.7	0.98
ANNUAL RUNOFF (CFSM)	1.01	1.44	1.59
ANNUAL RUNOFF (INCHES)	13.74	19.62	21.64
10 PERCENT EXCEEDS	84	165	154
50 PERCENT EXCEEDS	21	20	39
90 PERCENT EXCEEDS	2.6	7.0	10

a Also occurred on August 26, 2001.

b From rating curve extended above 560 ft³/s on basis of theoretical weir formula.

e Estimated.

01137500 AMMONOOSUC RIVER AT BETHLEHEM JUNCTION, NH

LOCATION.--Lat 44°16'08", long 71°37'52", Grafton County, Hydrologic Unit 01080101, on left bank, 0.2 mi upstream from Pierce Bridge and Bethlehem Junction, 0.8 mi upstream from unnamed tributary entering from left, 3.0 mi east of US 302 and State Highway 142 intersection in Bethlehem, 3.4 mi downstream from Little River, 4.5 mi west of US 3 and 302 intersection in Twin Mountain, and at mile 35.0.

DRAINAGE AREA.--87.6 mi².

PERIOD OF RECORD.-- Discharge records: August 1939 to current year.

REVISED RECORDS.--WSP 1701: 1951(M), 1953-54(M).

GAGE.--Water-stage recorder. Datum of gage is 1,180.74 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft³/s and maximum (*):

Table with 8 columns: Date, Time, Discharge (ft³/s), Gage height (ft), Date, Time, Discharge (ft³/s), Gage height (ft). Includes data for Apr. 14 0545 and Jun. 12 1515.

Minimum discharge, 21 ft³/s, September 5.

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

Large table with 13 columns: DAY, OCT, NOV, DEC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP. Contains daily mean discharge data from day 1 to 31, plus summary statistics for total, mean, max, min, and CFSM/IN.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2002, BY WATER YEAR (WY)

Table with 13 columns for months (OCT-SEP) and 4 rows for MEAN, MAX, MIN, and (WY) statistics.

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1939 - 2002

Table with 5 columns: Statistic, 2001 Calendar Year, 2002 Water Year, Water Years 1939-2002 (1939), Water Years 1939-2002 (1995).

a Also occurred on September 9, 10.
b From rating curve extended above 4,100 ft³/s on basis of slope-area measurement of peak flow.
c From floodmarks in well.
e Estimated.

CONNECTICUT RIVER BASIN

01138500 CONNECTICUT RIVER AT WELLS RIVER, VT

LOCATION.--Lat 44°09'13", long 72°02'34", Orange County, Hydrologic Unit 01080101, on right bank, at village of Wells River, 200 ft downstream from bridge on US 302, 400 ft upstream from Wells River, 1,200 ft downstream from Ammonoosuc River, and at mile 266.0.

DRAINAGE AREA.--2,644 mi².

PERIOD OF RECORD.--Discharge records: October 1949 to current year. October and November 1949 monthly discharge only, published in WSP 1301.

PERIOD OF DAILY WATER-QUALITY RECORD.--Water years 1980 to 1982.

WATER TEMPERATURE: Water years 1980 to 1982.

SPECIFIC CONDUCTANCE: Water years 1980 to 1982.

REVISED RECORDS.--WDR NH-VT-93-1: 1992.

GAGE.--Water-stage recorder. Datum of gage is 399.75 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by power plants, by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, and other reservoirs. These reservoirs have a combined capacity of about 14.8 billion ft³.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 57,100 ft³/s, July 1, 1973, gage height, 17.35 ft, from peak-stage indicator; minimum daily discharge 152 ft³/s, August 28, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 43,300 ft³/s, June 13, gage height, 13.61 ft; minimum daily discharge, 687 ft³/s, October 5.

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

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	754	1350	4390	1310	4530	6610	8990	9190	7740	5460	3630	1330
2	735	1860	5300	4350	3190	5960	10500	8920	11700	5270	2020	1320
3	901	1970	6140	3820	4310	4300	11700	10700	10300	5960	2830	1320
4	1020	1130	5030	4720	3830	6920	13300	11400	8570	4800	3150	1290
5	687	1470	2820	1830	4440	7170	12900	10300	6190	2180	2630	1360
6	853	3490	4450	1760	3010	2850	10800	8820	8870	2650	1660	2170
7	749	3130	3570	3270	2410	5730	9380	8890	9730	2380	1720	1330
8	732	3950	2040	2770	2120	6680	7430	9150	7980	4450	2100	1310
9	721	3230	1740	3300	1230	5420	7280	8230	3300	5630	2070	1310
10	922	1580	2350	2530	906	11000	11100	7530	4730	4700	1550	1310
11	1100	1230	2190	3540	1960	13900	11200	6490	5080	3830	1490	1380
12	809	3040	1480	2020	2160	13200	10600	5930	18900	2090	1920	1360
13	793	1920	2310	2350	1750	12100	15400	7270	39200	2290	2190	1460
14	796	1690	2250	2460	3720	11800	30300	13300	28700	1910	1500	1410
15	1620	1760	4310	2590	1990	8730	33700	14300	20300	3120	1290	1400
16	1240	948	2260	2150	1400	7960	34600	13400	14700	2260	1500	1980
17	1760	1360	3830	2540	2640	7720	36000	13800	10200	3760	1300	2220
18	1360	1490	2140	1940	3350	7450	33300	14900	6870	5970	1270	1570
19	1270	1910	1060	1440	4640	7570	31100	14100	7290	5130	1250	1500
20	895	2820	981	973	4910	6510	26300	13100	7000	6000	1270	1440
21	773	3530	1690	1770	4320	6670	20500	12700	6620	4670	1250	1440
22	1010	1190	2050	2180	5480	6000	15400	8540	6190	4580	1260	1450
23	1900	1850	1490	1750	6580	4070	13500	7170	6410	4060	1320	1500
24	2630	2310	1220	2220	6380	4250	12500	6820	7140	3000	1320	1480
25	2350	1970	1310	3070	6050	5190	9250	5770	6160	2700	1330	1450
26	2530	3140	2740	2350	5000	4660	8440	5040	6340	1750	1320	1440
27	1080	1840	3690	4400	6420	3410	8130	4720	7830	1760	1310	1480
28	1410	1490	2080	3600	6870	3770	7370	5720	11600	2010	1310	3830
29	4070	4030	1490	3230	---	5180	8260	4720	11000	3980	1300	2740
30	1190	6210	1580	3560	---	6480	8990	4110	6780	3090	1310	1760
31	1720	---	1950	4380	---	7130	---	4670	---	3820	1340	---
TOTAL	40380	68888	81931	84173	105596	216390	478220	279700	313420	115260	52710	48340
MEAN	1303	2296	2643	2715	3771	6980	15940	9023	10450	3718	1700	1611
MAX	4070	6210	6140	4720	6870	13900	36000	14900	39200	6000	3630	3830
MIN	687	948	981	973	906	2850	7280	4110	3300	1750	1250	1290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2002, BY WATER YEAR (WY)

	3700	4769	4642	3798	3824	5918	12740	8407	4485	2867	2494	2511
MEAN	3700	4769	4642	3798	3824	5918	12740	8407	4485	2867	2494	2511
MAX	9801	9815	11320	7717	10050	13420	20110	17120	10450	8566	6709	10810
(WY)	1978	1960	1974	1996	1981	1979	1954	1972	2002	1996	1990	1954
MIN	1226	2008	1445	1632	1824	2492	3634	3479	1906	1206	1013	883
(WY)	1964	1979	1979	1981	1980	1962	1995	1987	1988	1991	1970	1978

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1950 - 2002

ANNUAL TOTAL	1390908	1885008	
ANNUAL MEAN	3811	5164	5017
HIGHEST ANNUAL MEAN			7355
LOWEST ANNUAL MEAN			3211
HIGHEST DAILY MEAN	37700	Apr 26	50600
LOWEST DAILY MEAN	509	Sep 14	152
ANNUAL SEVEN-DAY MINIMUM	629	Sep 14	522
MAXIMUM PEAK FLOW		43300	57100
MAXIMUM PEAK STAGE		13.61	a 17.35
10 PERCENT EXCEEDS	6450	11100	10400
50 PERCENT EXCEEDS	2540	3230	3600
90 PERCENT EXCEEDS	791	1280	1280

a From peak stage indicator.

01144500 CONNECTICUT RIVER AT WEST LEBANON, NH

LOCATION.--Lat 43°38'46", long 72°18'46", Grafton County, Hydrologic Unit 01080104, on left bank, 50 ft downstream from railroad bridge at West Lebanon, 500 ft downstream from White River, 0.2 mi northwest of US 4 and State Highway 12A intersection in West Lebanon, and at mile 215.0.

DRAINAGE AREA.--4,092 mi².

PERIOD OF RECORD.--Discharge records: November 1911 to December 1911, March 1912 to December 1913, March 1914 to December 1914, February 1915 to December 1915, April 1916 to December 1916, March 1917 to November 1917, April 1918 to December 1919, April 1920 to January 1921, March 1921 to November 1976, November 1978 to current year. Published as "at White River Junction, VT" prior to November 1978.

REVISED RECORDS.--WSP 741: 1932 (adjusted monthly and yearly figures only). WSP 781: 1928(M). WSP 891: Drainage area. WSP 1301: 1922-26(M).

GAGE.--Water-stage recorder. Datum of gage is 321.52 ft above National Geodetic Vertical Datum of 1929. Prior to June 16, 1918, nonrecording gage on downstream side of pier of railroad bridge 50 ft upstream at same datum. June 16, 1918, to November 2, 1930, nonrecording gage at various locations on upstream and downstream sides of railroad bridge at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by power plants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, Union Village Reservoir, and other reservoirs. These reservoirs have a combined usable capacity of about 17.2 billion ft³.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge. 136,000 ft³/s, November 4, 1927, gage height, 35.0 ft, present site; minimum daily discharge 82 ft³/s, August 8, 1965. Stage and discharge of flood November 4, 1927, are the greatest since at least 1760.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 65,000 ft³/s, April 14, gage height, 22.16 ft; minimum daily discharge, 782 ft³/s, October 7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	837	1320	4340	1580	4620	8520	17900	13200	8260	6190	4040	1770
2	874	2200	5800	4560	4510	6960	21900	13300	13000	7960	2280	854
3	1560	1270	6360	4130	2930	6680	18600	14600	12300	7380	2620	1580
4	1130	1360	4920	4050	4520	9290	20500	14300	11800	3460	3270	1640
5	796	2570	4450	2310	5300	10800	18300	14300	6570	3770	5300	852
6	788	3140	3690	2210	3730	6010	16000	11800	9270	4370	1700	3400
7	782	4370	3880	4200	3730	4320	14400	11700	9670	3120	1450	1610
8	1290	3640	3170	3040	2550	8380	10200	11700	9680	5540	1930	820
9	796	3750	2010	2400	e1300	6860	10000	9600	5730	6840	2060	2060
10	1660	2450	2160	2610	e1350	16500	17300	9530	4440	6980	1760	2010
11	1320	2160	1910	2950	2850	21500	18600	8910	6020	3630	1450	815
12	793	1650	2050	2080	3690	16700	16500	6850	14000	4050	2060	1580
13	1000	2530	2640	2010	3280	14700	21100	10300	34100	2540	4110	1410
14	818	1590	2740	2370	4750	13800	53300	23400	37600	2240	1990	1420
15	1020	1220	4690	3590	3040	13200	49300	21700	30800	3680	1360	1720
16	863	1770	3180	2740	2420	11000	46800	19900	22100	4550	1320	2630
17	2060	1210	3710	2570	2670	10900	45600	18000	14200	4380	1400	3160
18	1350	1630	3470	2150	5050	9050	44000	19200	8910	5330	862	2330
19	2770	1770	1300	2070	5820	10200	40200	19700	8920	5260	1660	1730
20	861	3130	1110	1560	4520	6990	36900	17500	8600	6710	851	1890
21	835	3800	2040	1640	5480	8550	31100	15900	6930	5580	1850	1290
22	953	1020	1980	2340	5910	7730	23300	14600	7120	6450	1850	1740
23	2010	1640	2090	1520	7960	5890	16900	8640	8380	5150	1650	1820
24	2210	1790	1270	1430	7330	6640	15700	8410	8920	1280	1670	2110
25	2500	1560	1470	2300	7100	6390	14200	8080	8900	3240	1910	2580
26	2510	3210	2140	4060	5580	6530	12500	7160	7130	3010	1530	2550
27	1660	4220	3410	4410	6780	5740	12100	6460	11100	1380	868	3860
28	3050	1850	2510	4290	8660	7220	11400	6700	13200	2300	2060	4040
29	2380	4390	1940	4080	---	7520	12200	6390	12400	6200	1660	2150
30	1080	5020	1370	4170	---	8380	12400	5240	10900	2740	1670	2700
31	2170	---	2600	4420	---	15000	---	6440	---	3790	1760	---
TOTAL	44726	73230	90400	89840	127430	297950	699200	383510	370950	139100	61951	60121
MEAN	1443	2441	2916	2898	4551	9611	23310	12370	12360	4487	1998	2004
MAX	3050	5020	6360	4560	8660	21500	53300	23400	37600	7960	5300	4040
MIN	782	1020	1110	1430	1300	4320	10000	5240	4440	1280	851	815

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1977, 1979 - 2002, BY WATER YEAR (WY)

	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	4725	6726	6246	5103	4807	9208	20320	12970	6278	3772	3024	3195																																																																															
MAX (WY)	12990	24860	16890	11680	17650	35510	32900	25890	16870	14050	8904	12900																																																																															
MIN (WY)	1982	1928	1984	1996	1981	1936	1934	1972	1947	1973	1990	1954																																																																															
MIN (WY)	1314	2313	1795	1627	1419	1626	5536	4556	1946	1393	1072	1007																																																																															
MIN (WY)	1948	1948	1948	1948	1940	1940	1995	1987	1921	1921	1942	1921																																																																															

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1912 - 1977, 1979 - 2002
ANNUAL TOTAL	1893325	2438408	
ANNUAL MEAN	5187	6681	7142
HIGHEST ANNUAL MEAN			10700
LOWEST ANNUAL MEAN			4101
HIGHEST DAILY MEAN	51400	Apr 23	129000
LOWEST DAILY MEAN	734	Aug 12	82
ANNUAL SEVEN-DAY MINIMUM	747	Sep 13	967
MAXIMUM PEAK FLOW			65000
MAXIMUM PEAK STAGE		22.16	Apr 14
10 PERCENT EXCEEDS	8080	15300	15500
50 PERCENT EXCEEDS	3050	3790	4580
90 PERCENT EXCEEDS	863	1320	1650

e Estimated.

01150900 OTTAUQUECHEE RIVER NEAR WEST BRIDGEWATER, VT

LOCATION.--Lat 43°37'20", long 72°45'34", Rutland County, Hydrologic Unit 02010001, on right bank, 50 ft upstream from Mission Chapel Road bridge, 1.6 mi northwest of State Highway 100S and US 4E intersection in West Bridgewater, and 2.6 mi southeast of River Road and US 4 intersection in Sherburne Center.

DRAINAGE AREA.--23.4 mi².

PERIOD OF RECORD.--Discharge records: October 1984 to current year.

REVISED RECORDS.--WRD NH-VT-87-1: 1985-86.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,150 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 10	1100	648	5.58	Apr. 15	1230	831	6.21
Apr. 14	0445	* 1,690	8.94				

Minimum discharge, 1.2 ft³/s, September 10 and 11.

REVISIONS.--The maximum discharge reported for water year 2001 has been revised to 1,410 ft³/s, December 17, 2000, gage height, 8.08 ft, superceding the figure published in the report for 2001. Peak discharge for April 13, 2001 (2115 hours) has been revised to 551 ft³/s, gage height, 5.21 ft. Peak discharge for April 22, 2001 (1945 hours) has been revised to 1,300 ft³/s, gage height, 7.72 ft. The revised daily discharge, in cubic feet per second, for April 2001 is given below. This figure supercedes that published in the report for 2001.

	TOTAL	MEAN	MAX	MIN	(ft ³ /s)/mi ²	IN
April 2001	6872	229	940	23	9.79	10.92
Wtr Yr 2001	17979.9	49.3	940	3.5	2.11	28.58

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	15	78	e9.8	e47	45	305	98	103	25	6.3	3.1
2	5.8	14	46	e9.7	e41	40	261	117	59	22	7.1	2.8
3	5.8	14	32	e10	e36	64	196	138	45	19	7.2	2.9
4	5.6	12	28	e10	e32	96	197	105	38	35	6.0	2.6
5	5.2	15	26	e11	e28	68	122	85	39	23	5.9	2.2
6	5.6	17	22	e11	e24	51	94	72	79	19	5.6	2.0
7	6.8	15	18	e12	e22	48	75	74	60	19	5.5	1.7
8	5.9	12	e13	e12	e20	43	71	69	45	17	4.6	1.6
9	5.3	11	e13	e12	e18	58	106	60	39	16	4.5	1.6
10	4.9	11	e12	e13	e19	430	386	59	33	15	4.3	1.6
11	4.7	9.6	e12	e13	e62	237	225	48	33	12	4.2	1.8
12	4.9	8.3	12	e13	e56	109	168	50	97	11	4.1	3.7
13	5.1	7.2	14	e13	e51	88	314	144	121	9.6	3.9	2.7
14	5.4	8.5	19	e12	e42	87	1170	367	73	8.9	4.3	2.6
15	10	10	44	e11	38	86	688	236	85	12	3.6	3.4
16	8.1	9.6	31	e12	36	103	372	153	132	14	3.4	30
17	7.0	8.5	26	e12	e32	89	233	159	111	11	3.4	14
18	7.1	7.9	28	e11	e30	72	171	143	88	10	3.2	6.4
19	6.1	7.6	26	e12	e27	63	137	135	67	11	2.7	4.5
20	6.3	12	24	e12	26	57	109	113	53	11	3.1	4.1
21	6.4	13	22	e11	55	e48	85	97	44	8.4	2.9	4.2
22	7.7	11	17	e11	78	e41	74	84	44	8.3	2.6	6.4
23	7.4	9.9	e16	e11	58	41	76	73	51	17	5.4	5.5
24	9.0	9.5	e15	30	e43	38	73	67	44	20	3.4	4.5
25	13	12	e14	56	e44	33	73	59	33	11	4.0	3.9
26	15	28	e13	38	50	32	79	53	31	8.8	3.2	3.4
27	11	20	e12	31	70	59	66	48	57	8.8	2.8	4.5
28	9.8	17	e11	30	56	65	63	43	51	8.6	2.5	33
29	8.5	17	e11	37	---	66	105	40	38	8.9	2.6	13
30	7.6	51	e10	55	---	147	105	39	30	7.7	4.8	7.5
31	7.0	---	e10	44	---	192	---	67	---	6.7	3.5	---
TOTAL	225.0	413.6	675	585.5	1141	2696	6199	3095	1823	434.7	130.6	181.2
MEAN	7.26	13.8	21.8	18.9	40.8	87.0	207	99.8	60.8	14.0	4.21	6.04
MAX	15	51	78	56	78	430	1170	367	132	35	7.2	33
MIN	4.7	7.2	10	9.7	18	32	63	39	30	6.7	2.5	1.6
CFSM	0.31	0.59	0.93	0.81	1.74	3.72	8.83	4.27	2.60	0.60	0.18	0.26
IN.	0.36	0.66	1.07	0.93	1.81	4.29	9.85	4.92	2.90	0.69	0.21	0.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2002, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	45.4	60.4	48.7	47.8	38.6	91.3	166	81.9	43.7	30.1	22.2	24.4						
MAX	121	121	94.5	108	76.6	200	272	169	160	125	51.5	97.2						
(WY)	1988	1989	2001	1998	1990	1998	2000	1996	1998	1996	1986	1987						
MIN	7.26	13.8	21.2	18.9	14.5	20.2	45.7	34.7	13.7	6.77	4.21	6.04						
(WY)	2002	2002	1998	2002	1987	2001	1995	1995	1988	1991	2002	2002						

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1985 - 2002

ANNUAL TOTAL	14602.0	17599.6		
ANNUAL MEAN	40.0	48.2		
HIGHEST ANNUAL MEAN			58.4	
LOWEST ANNUAL MEAN			83.2	2000
HIGHEST DAILY MEAN	940	Apr 24	1460	Mar 29 1998
LOWEST DAILY MEAN	3.5	Aug 16	a 1.6	Sep 8 2002
ANNUAL SEVEN-DAY MINIMUM	3.9	Sep 13	1.8	Sep 5 2002
MAXIMUM PEAK FLOW			b 1690	Apr 14 1995
MAXIMUM PEAK STAGE			8.94	Apr 14 2002
INSTANTANEOUS LOW FLOW			c 1.2	Sep 10 2002
ANNUAL RUNOFF (CFSM)	1.71	2.06		2.49
ANNUAL RUNOFF (INCHES)	23.21	27.98		33.89
10 PERCENT EXCEEDS	73	105		124
50 PERCENT EXCEEDS	17	19		31
90 PERCENT EXCEEDS	5.2	4.2		9.7

- a Also occurred on September 9 and 10.
- b From rating curve extended above 1,300 ft³/s.
- c Also occurred on September 11.
- e Estimated.

CONNECTICUT RIVER BASIN

01151500 OTTAUQUECHEE RIVER AT NORTH HARTLAND, VT

LOCATION.--Lat 43°36'09", long 72°21'17", Windsor County, Hydrologic Unit 01080106, on left bank, 100 ft upstream from US 5 bridge, 0.3 mi downstream from North Hartland Dam, 0.7 mi north of Depot Road and US 5 intersection in North Hartland, 1.2 mi upstream from mouth, and 3.7 mi southwest of Courthouse in White River Junction.

DRAINAGE AREA.--221 mi².

PERIOD OF RECORD.--Discharge records: October 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 336.77 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.-- Records good. Flow regulated by power plants upstream and by North Hartland Reservoir since March 1961; greater regulation by power plants at North Hartland Reservoir since July 1985. Small seasonal storage in reservoir at Plymouth.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1760, 21.5 ft in November 1927, from floodmarks, discharge 30,400 ft³/s, by computation of peak flow over dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,400 ft³/s, September 21, 1938, gage height, 17.68 ft, from rating curve extended above 6,200 ft³/s on basis of computation of flow over dam at gage heights 15.58 ft, 17.68 ft, and 21.5 ft; minimum, 0.2 ft³/s, July 6, 1984, during hydroelectric construction; minimum daily discharge, 3.8 ft³/s, July 3, 1933. Maximum discharge since construction of North Hartland Dam in March 1961, 6,170 ft³/s, March 17, 1977, gage height, 8.67 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,510 ft³/s, April 16, gage height, 6.94 ft; minimum daily discharge, 14 ft³/s, September 14, 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	58	192	96	223	367	2590	793	580	129	36	34
2	92	58	331	87	205	352	2520	799	383	129	43	30
3	59	58	198	81	205	470	1600	1050	333	129	46	25
4	46	58	132	75	205	796	1680	1000	239	129	46	24
5	39	81	92	66	182	409	1240	669	245	244	46	24
6	32	91	109	67	155	435	943	600	631	125	45	24
7	31	87	96	107	155	528	865	572	536	124	42	24
8	29	85	81	127	141	364	734	508	385	100	37	24
9	29	75	81	105	126	304	806	472	290	82	30	24
10	29	57	104	82	126	1400	1680	454	244	82	30	24
11	29	56	111	72	628	1860	1820	404	213	82	30	22
12	29	56	91	53	480	1020	1250	403	483	82	29	15
13	29	56	77	53	434	699	1370	783	934	82	24	15
14	29	56	77	105	265	691	1040	2410	518	82	21	14
15	50	56	204	131	234	738	1980	2120	429	75	21	14
16	98	56	310	130	242	696	3410	1180	751	61	20	71
17	97	56	220	128	242	622	3130	1050	722	72	21	97
18	50	54	175	86	241	639	2750	1080	515	84	20	47
19	36	65	155	56	240	557	2020	1200	399	70	19	31
20	36	82	145	56	232	470	1250	988	346	72	19	29
21	36	74	126	57	211	503	759	751	285	84	19	21
22	36	58	105	98	466	407	650	715	285	83	18	21
23	36	58	85	128	521	336	653	574	323	68	34	21
24	67	58	119	110	400	340	654	489	353	79	47	32
25	91	58	114	148	364	404	632	481	249	95	39	38
26	70	75	71	188	381	431	670	419	192	69	33	38
27	44	132	105	187	528	637	562	386	225	61	25	51
28	45	119	84	187	507	632	511	387	296	60	18	79
29	45	89	52	186	---	645	922	382	307	50	18	78
30	54	104	61	250	---	1170	991	365	188	34	24	76
31	58	---	85	294	---	1510	---	310	---	36	34	---
TOTAL	1513	2126	3988	3596	8339	20432	41682	23794	11879	2754	934	1067
MEAN	48.8	70.9	129	116	298	659	1389	768	396	88.8	30.1	35.6
MAX	98	132	331	294	628	1860	3410	2410	934	244	47	97
MIN	29	54	52	53	126	304	511	310	188	34	18	14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2002, BY WATER YEAR (WY)

MEAN	216	335	340	298	283	629	1376	665	295	166	120	130
MAX	1060	816	1028	900	1157	2570	2587	1676	990	1131	759	1030
(WY)	1988	1976	1984	1996	1981	1936	1969	1940	1998	1973	1976	1938
MIN	33.3	70.5	72.2	56.2	55.4	84.0	346	201	70.3	34.8	28.5	29.7
(WY)	1965	1965	1948	1948	1940	1940	1995	1941	1965	1965	1965	1967

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1931 - 2002
ANNUAL TOTAL	123036	122104	
ANNUAL MEAN	337	335	404
HIGHEST ANNUAL MEAN			691
LOWEST ANNUAL MEAN			173
HIGHEST DAILY MEAN	4440	Apr 27	3410
LOWEST DAILY MEAN	a 18	Sep 19	b 14
ANNUAL SEVEN-DAY MINIMUM	28	Sep 14	18
MAXIMUM PEAK FLOW			3510
MAXIMUM PEAK STAGE			6.94
10 PERCENT EXCEEDS	540		802
50 PERCENT EXCEEDS	155		119
90 PERCENT EXCEEDS	32		29

a Also occurred on September 20, 2001.

b Also occurred on September 15, 2002.

c From rating curve extended above 6,200 ft³/s as explained above.

01152500 SUGAR RIVER AT WEST CLAREMONT, NH

LOCATION.--Lat 43°23'15", long 72°21'45", Sullivan County, Hydrologic Unit 01080104, on right bank, 0.2 mi downstream from Redwater Brook, 0.7 mi southeast of Clay Hill Road and Paddy Hollow Road intersection in West Claremont, 1.6 mi northwest of City Hall in Claremont, and 2.4 mi upstream from mouth.

DRAINAGE AREA.--269 mi².

PERIOD OF RECORD.--Discharge records: May 1928 to current year. Published as "at Claremont" prior to October 1928.

REVISED RECORDS.--WSP 711: 1930(M). WSP 756: Drainage area. WSP 1901: 1960 (adjusted figures only).

GAGE.--Water-stage recorder. Datum of gage is 358.78 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to October 1, 1928, nonrecording gage at site 0.8 mi upstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Regulation by Sunapee Lake 25 mi upstream and occasional diurnal fluctuation at low flow by mills upstream; greater regulation by mills prior to 1971.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,000 ft³/s, March 19, 1936, gage height, 10.92 ft, from rating curve extended above 6,700 ft³/s on basis of computations of flow over dam at gage heights 10.49 ft and 10.92 ft; maximum gage height, 11.80 ft, March 12, 1936 (ice jam); minimum daily discharge, 14 ft³/s, August 26, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 1	1430	* 2,540	* 4.52	No other peak greater than base discharge.			

Minimum daily discharge, 34 ft³/s, September 13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	64	189	74	226	437	2100	515	616	152	49	50
2	71	67	197	e74	211	364	1790	597	408	147	70	48
3	61	66	147	e85	e170	556	1390	876	315	141	68	45
4	53	63	124	80	e190	932	1620	647	261	133	57	40
5	53	65	114	e83	162	564	1190	523	281	128	49	39
6	52	68	104	83	151	451	952	450	718	121	44	37
7	50	66	96	80	148	380	769	398	897	118	42	38
8	48	65	90	e80	138	339	668	359	633	110	40	44
9	46	115	89	91	117	351	618	328	487	102	40	39
10	48	125	84	96	126	1080	638	326	390	99	43	41
11	46	124	82	95	e360	893	593	297	370	74	42	43
12	45	119	79	95	e425	628	527	289	606	64	42	40
13	45	117	81	94	374	516	456	632	870	61	41	34
14	42	136	85	89	285	479	546	1650	615	58	40	39
15	52	139	152	96	272	465	898	1150	542	63	39	43
16	54	130	171	95	244	427	886	861	568	61	39	65
17	58	120	140	e88	235	380	678	721	554	57	39	62
18	57	106	152	e86	211	359	559	825	456	49	41	55
19	55	76	140	e77	189	334	482	1010	354	59	49	50
20	54	61	137	e88	186	319	435	811	303	100	43	48
21	53	58	130	e90	e240	320	389	683	268	83	41	46
22	59	58	108	e90	e415	309	359	590	259	65	42	62
23	59	57	90	e88	e480	285	374	512	297	63	45	59
24	61	57	122	e98	e410	272	380	456	292	63	45	49
25	62	60	122	e120	362	262	371	372	233	57	47	49
26	64	77	111	e150	e360	261	444	329	198	53	45	49
27	63	92	e100	e145	e600	434	406	304	197	51	41	57
28	62	91	e80	139	568	578	380	296	232	51	38	105
29	61	91	100	137	---	623	491	307	208	53	47	100
30	60	101	e84	e170	---	1110	569	285	177	50	75	77
31	57	---	e80	e235	---	1430	---	346	---	48	59	---
TOTAL	1732	2634	3580	3191	7855	16138	21958	17745	12605	2534	1442	1553
MEAN	55.9	87.8	116	103	280	521	732	572	420	81.7	46.5	51.8
MAX	81	139	197	235	600	1430	2100	1650	897	152	75	105
MIN	42	57	79	74	117	261	359	285	177	48	38	34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2002, BY WATER YEAR (WY)

MEAN	215	344	360	320	329	677	1281	637	319	172	135	132
MAX	895	917	1146	1090	1343	2490	2746	1657	818	711	952	1269
(WY)	1976	1996	1997	1978	1981	1936	1969	1940	1940	1973	1990	1938
MIN	39.2	66.9	92.9	84.7	74.5	108	359	179	67.5	26.2	29.3	44.7
(WY)	1984	1972	1948	1948	1942	1940	1995	1965	1965	1965	1999	1995

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1928 - 2002
ANNUAL TOTAL	127042	92967	
ANNUAL MEAN	348	255	409
HIGHEST ANNUAL MEAN			660
LOWEST ANNUAL MEAN			139
HIGHEST DAILY MEAN	5060	Apr 23	2100
LOWEST DAILY MEAN	36	Sep 13	34
ANNUAL SEVEN-DAY MINIMUM	39	Sep 7	40
MAXIMUM PEAK FLOW			2540
MAXIMUM PEAK STAGE		4.52	Apr 1
10 PERCENT EXCEEDS	678		615
50 PERCENT EXCEEDS	173		118
90 PERCENT EXCEEDS	52		45
			68
			a 14000
			b 11.80
			Mar 19 1936
			Mar 12 1936

a From rating curve extended above 6,700 ft³/s as explained above.
b Ice Jam.
c Estimated.

CONNECTICUT RIVER BASIN

01153550 WILLIAMS RIVER NEAR ROCKINGHAM, VT

LOCATION.--Lat 43°11'30", long 72°29'08", Windham County, Hydrologic Unit 01080107, on left bank, 50 ft downstream from Parker Hill Road bridge, 0.2 mi downstream from Divoll Brook, 0.35 mi northeast of Rockingham, 2.2 mi upstream from mouth, 2.2 mi downstream of Station 01153500, "Williams River at Brockways Mills", and 4.5 mi northwest of Bellows Falls.

DRAINAGE AREA.--112 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 300 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Low flow regulated by power plant upstream October 1986 to September 1992, August 2002 to present.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in September 1938 had greatest discharge since at least 1753.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 13	2145	* 3,480	* 7.11	No other peak greater than base discharge.			
Minimum daily discharge, 8.3 ft ³ /s, September 12.							

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	33	170	48	e160	190	1610	269	225	56	18	18
2	38	40	95	46	e145	167	907	424	149	50	18	16
3	34	34	68	e44	e130	375	825	475	121	45	19	16
4	31	33	59	e44	e120	415	724	310	102	41	18	15
5	29	31	53	e46	e105	231	482	254	111	35	16	13
6	28	34	50	e49	e97	195	387	219	395	33	14	12
7	27	33	46	e52	e93	193	323	195	258	32	14	10
8	27	31	43	e50	e87	182	294	177	165	32	13	9.8
9	26	31	46	e49	e78	214	319	177	131	30	12	9.4
10	26	31	39	e60	e78	855	476	198	108	29	12	9.0
11	26	30	e45	e75	e340	407	357	155	93	25	10	8.4
12	25	29	e42	e71	e300	291	302	182	218	23	10	8.3
13	25	26	47	e64	e225	253	297	1160	288	22	9.9	8.7
14	25	29	65	e61	e160	275	321	1670	168	21	10	8.8
15	39	29	182	e58	e140	281	710	686	210	28	9.3	10
16	47	29	115	e53	e120	268	455	448	349	53	10	36
17	37	27	83	e52	e115	239	326	374	315	31	11	30
18	34	27	90	e50	e105	218	267	523	200	26	11	18
19	31	27	77	e49	e96	202	233	537	151	35	9.2	15
20	30	27	72	e49	e90	190	216	405	123	128	9.2	13
21	29	27	66	e51	e160	199	193	328	104	47	9.0	12
22	29	26	e60	e53	e345	176	184	277	99	34	8.8	31
23	27	26	e57	e51	e250	168	211	237	132	35	9.5	38
24	29	26	e70	e69	e200	160	228	208	117	59	11	22
25	30	29	e75	e105	e175	152	213	180	85	33	15	18
26	29	65	57	e94	e215	155	270	161	73	26	13	16
27	27	53	56	e83	349	533	209	151	102	24	11	20
28	27	43	e55	e81	255	468	227	134	109	23	9.0	73
29	27	54	e65	e89	---	451	417	128	80	25	13	40
30	27	92	58	e165	---	989	338	128	65	22	50	26
31	26	---	50	e170	---	988	---	147	---	19	26	---
TOTAL	936	1052	2156	2081	4733	10080	12321	10917	4846	1122	428.9	580.4
MEAN	30.2	35.1	69.6	67.1	169	325	411	352	162	36.2	13.8	19.4
MAX	47	92	182	170	349	989	1610	1670	395	128	50	73
MIN	25	26	39	44	78	152	184	128	65	19	8.8	8.3
CFSM	0.27	0.31	0.62	0.60	1.51	2.90	3.67	3.14	1.44	0.32	0.12	0.17
IN.	0.31	0.35	0.72	0.69	1.57	3.35	4.09	3.63	1.61	0.37	0.14	0.19

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

MEAN	122	184	176	162	149	397	644	289	155	68.5	52.4	60.7
MAX	461	382	443	441	306	850	1199	544	440	227	221	282
(WY)	1988	1996	1997	1996	1997	1990	1994	1996	1998	1996	2000	1987
MIN	29.4	35.1	69.5	58.7	51.0	108	156	90.4	34.9	16.6	13.8	13.4
(WY)	1994	2002	2002	1989	1993	2001	1995	1995	1995	1999	2002	1995

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1987 - 2002
ANNUAL TOTAL	62912	51253.3	
ANNUAL MEAN	172	140	205
HIGHEST ANNUAL MEAN			283
LOWEST ANNUAL MEAN			111
HIGHEST DAILY MEAN	3180	1670	6670
LOWEST DAILY MEAN	11	8.3	6.9
ANNUAL SEVEN-DAY MINIMUM	12	8.9	7.5
MAXIMUM PEAK FLOW		3480	a 11500
MAXIMUM PEAK STAGE		7.11	10.59
ANNUAL RUNOFF (CFSM)	1.54	1.25	1.83
ANNUAL RUNOFF (INCHES)	20.90	17.02	24.86
10 PERCENT EXCEEDS	319	332	450
50 PERCENT EXCEEDS	80	59	101
90 PERCENT EXCEEDS	18	15	23

a From rating curve extended above 3,800 ft³/s.
e Estimated.

01154000 SAXTONS RIVER AT SAXTONS RIVER, VT

LOCATION.--Lat 43°08'15", long 72°29'19", Windham County, Hydrologic Unit 01080107, on right bank 130 ft upstream from highway bridge, 0.8 mi east of Saxtons River, 1.4 mi upstream from Bundy Brook, and 3.9 mi upstream from mouth.

DRAINAGE AREA.--72.2 mi².

PERIOD OF RECORD.--Discharge records: June 1940 to September 1982, June 2001 to current year.

Water-quality record: Water year 1957.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 395.51 ft above National Vertical Datum of 1929 (levels by private engineer).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Occasional diurnal fluctuation at low flow prior to 1962; fluctuation more frequent prior to 1946.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,460 ft³/s, August 10, 1976, gage height, 14.06 ft, from rating curve extended above 2,000 ft³/s on basis of slope-area measurements at gage heights 10.51 ft, 11.37 ft, and 13.26 ft; minimum, 1.9 ft³/s, July 25, 1949; minimum daily, 2.4 ft³/s, August 6, 1955.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1869, 17.9 ft in September 1938, from floodmarks (discharge not determined).

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	---	---	---	---	---	---	---	---	e95	76	16	21
2	---	---	---	---	---	---	---	---	e290	102	15	13
3	---	---	---	---	---	---	---	---	e490	55	15	9.5
4	---	---	---	---	---	---	---	---	e330	49	17	9.6
5	---	---	---	---	---	---	---	---	e250	134	16	13
6	---	---	---	---	---	---	---	---	180	68	14	11
7	---	---	---	---	---	---	---	---	140	49	13	9.6
8	---	---	---	---	---	---	---	---	116	58	12	8.1
9	---	---	---	---	---	---	---	---	98	56	11	7.5
10	---	---	---	---	---	---	---	---	85	44	11	7.6
11	---	---	---	---	---	---	---	---	157	42	12	9.0
12	---	---	---	---	---	---	---	---	326	41	12	8.2
13	---	---	---	---	---	---	---	---	173	39	13	7.2
14	---	---	---	---	---	---	---	---	126	36	11	8.7
15	---	---	---	---	---	---	---	---	101	34	9.8	10
16	---	---	---	---	---	---	---	---	85	31	9.0	8.2
17	---	---	---	---	---	---	---	---	154	35	8.6	7.5
18	---	---	---	---	---	---	---	---	134	33	9.9	7.1
19	---	---	---	---	---	---	---	---	93	28	9.5	6.8
20	---	---	---	---	---	---	---	---	81	25	8.7	8.8
21	---	---	---	---	---	---	---	---	100	23	9.4	147
22	---	---	---	---	---	---	---	---	103	21	8.4	47
23	---	---	---	---	---	---	---	---	88	19	7.6	27
24	---	---	---	---	---	---	---	---	94	18	7.0	20
25	---	---	---	---	---	---	---	---	75	16	6.5	296
26	---	---	---	---	---	---	---	---	60	43	6.2	127
27	---	---	---	---	---	---	---	---	52	34	6.4	53
28	---	---	---	---	---	---	---	---	44	23	6.7	62
29	---	---	---	---	---	---	---	---	40	21	6.2	93
30	---	---	---	---	---	---	---	---	39	18	5.9	56
31	---	---	---	---	---	---	---	---	---	16	6.0	---
TOTAL	---	---	---	---	---	---	---	---	4199	1287	319.8	1119.4
MEAN	---	---	---	---	---	---	---	---	140	41.5	10.3	37.3
MAX	---	---	---	---	---	---	---	---	490	134	17	296
MIN	---	---	---	---	---	---	---	---	39	16	5.9	6.8
CFSM	---	---	---	---	---	---	---	---	1.94	.58	.14	.52
IN.	---	---	---	---	---	---	---	---	2.16	.66	.16	.58

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940-1982, 2001 BY WATER YEAR (WY)

	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	2001
MEAN	56.9	103	108	87.5	96.5	222	414	181	77.7	35.5	27.6	29.4																																
MAX	315	317	227	269	376	535	804	402	222	145	195	163																																
(WY)	1976	1956	1978	1978	1981	1953	1969	1972	1952	1973	1976	1960																																
MIN	6.22	12.9	22.3	12.9	24.0	46.2	107	56.3	12.1	6.75	6.55	4.57																																
(WY)	1965	1965	1965	1965	1980	1956	1946	1941	1964	1965	1957	1964																																

e Estimated.

01154500 CONNECTICUT RIVER AT NORTH WALPOLE, NH

LOCATION.--Lat 43°07'34", long 72°26'14", Cheshire County, Hydrologic Unit 01080104, on left bank, 100 ft upstream from Saxtons River, 0.7 mi downstream from Vilas Bridge between Bellows Falls, VT, and North Walpole, 1.0 mi south of Main Street and New Hampshire State Highway 12 intersection in North Walpole, and at mile 172.5.

DRAINAGE AREA.--5,493 mi², includes that of Saxtons River.

PERIOD OF RECORD.--Discharge records: March 1942 to current year.

PERIOD OF DAILY WATER-QUALITY RECORD.--Water years 1975 to 1982.

SPECIFIC CONDUCTANCE: October 1980 to November 1981. Record at site 01155050, Connecticut River at Walpole, NH, are considered equivalent, Water years 1975 to 1980.

WATER TEMPERATURES: October 1980 to September 1981. Record at site 01155050, Connecticut River at Walpole, NH, are considered equivalent, Water years 1975 to 1980.

GAGE.--Water-stage recorder. Datum of gage is 218.63 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by power plants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, and other reservoirs, combined usable capacity, about 24.8 billion ft³.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1750, 43.8 ft, March 19, 1936, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 61,500 ft³/s, April 14, gage height, 22.76 ft; minimum daily discharge, 1,240 ft³/s, September 8.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1370	2100	5030	2460	6030	11900	31200	17000	10800	9420	4230	1800
2	1340	1900	6000	e4150	5600	9910	34600	17800	14700	6990	2620	1540
3	2690	1470	7200	5130	5050	10200	28500	21100	14400	8360	1980	1600
4	1640	1450	5970	5020	4340	13600	29700	19800	13400	4720	3520	1870
5	1350	3360	6060	2690	5210	14300	26900	18300	11500	4410	5040	1690
6	1390	1900	3960	2580	5270	12600	23000	15400	10100	4400	2470	2680
7	1370	5960	4270	3620	4770	7640	20100	14900	15600	3560	1800	1730
8	1380	4990	4080	3220	3280	9400	15000	14700	12800	5350	1730	1240
9	1360	3580	2690	3500	2820	8480	14200	12800	9610	6630	1930	1750
10	1330	2050	2580	2980	1820	18400	21400	11600	5450	7280	1910	2300
11	1520	3150	2190	3440	5560	30700	26700	11300	7110	5430	1350	1380
12	1270	2600	2220	2470	5040	23500	21600	10100	11000	3670	2340	1650
13	1350	2390	3180	1910	6100	18800	23800	13200	34200	2920	3910	1510
14	1360	2280	3610	3470	7090	18000	50100	33500	42100	2090	2320	1470
15	1340	1750	5420	4290	3260	17100	53800	32800	37600	3560	1640	1560
16	1340	2170	4780	3000	4520	16100	57400	27400	29200	3780	1790	2080
17	1360	1390	4080	3920	3710	13900	52800	24200	20100	5190	1620	3290
18	1640	1320	5060	2460	6520	13000	51800	24800	13300	5000	1620	2620
19	3210	2550	2440	2290	6720	12200	47200	27500	11300	6180	1560	2140
20	1370	3600	2070	1790	7380	12600	43000	23900	10000	5290	1410	1700
21	1340	3200	2070	1700	6080	9760	37600	20600	9440	7280	1330	1840
22	1550	2020	2490	2960	7530	10900	29900	19900	8210	6240	1330	1850
23	1920	1930	3360	1930	9590	9090	21700	13900	9060	6540	1670	2140
24	2700	1790	2400	2060	11300	7650	19200	10200	11500	2460	1660	2260
25	2860	2070	2690	2730	10100	8950	18700	11600	9810	2850	2320	2680
26	3170	3220	2570	4940	7980	8490	16700	9390	10000	3580	1620	3140
27	1730	4350	3750	4810	9410	9940	14900	9130	8860	1670	1370	3730
28	2850	3740	3020	4710	12100	11700	15000	9060	14900	2180	1670	3780
29	3300	3700	2670	5410	---	11700	15500	8230	14500	5680	1670	3470
30	1430	6360	2320	5170	---	13800	17600	7090	13400	3630	2140	3030
31	3100	---	1680	6180	---	24200	---	6840	---	3860	2060	---
TOTAL	56930	84340	111910	106990	174180	418510	879600	518040	443950	150200	65630	65520
MEAN	1836	2811	3610	3451	6221	13500	29320	16710	14800	4845	2117	2184
MAX	3300	6360	7200	6180	12100	30700	57400	33500	42100	9420	5040	3780
MIN	1270	1320	1680	1700	1820	7640	14200	6840	5450	1670	1330	1240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2002, BY WATER YEAR (WY)

MEAN	6168	8530	8432	7078	7097	13550	27360	16420	8193	4630	3892	3774
MAX	18300	18420	22550	17930	21810	34150	45630	33380	20600	18930	12990	14820
(WY)	1978	1960	1984	1996	1981	1979	1969	1972	1947	1973	1990	1954
MIN	1424	2811	2124	1866	2736	4532	7803	6477	3082	1845	1461	1555
(WY)	1949	2002	1948	1948	1980	1956	1995	1965	1999	1965	1942	1995

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1942 - 2002

ANNUAL TOTAL	2638360	3075800	
ANNUAL MEAN	7228	8427	9593
HIGHEST ANNUAL MEAN			14630
LOWEST ANNUAL MEAN			4991
HIGHEST DAILY MEAN	70600	57400	88300
LOWEST DAILY MEAN	1270	1240	a 115
ANNUAL SEVEN-DAY MINIMUM	1330	1360	777
MAXIMUM PEAK FLOW		61500	97000
MAXIMUM PEAK STAGE		22.76	30.37
10 PERCENT EXCEEDS	11800	20300	21300
50 PERCENT EXCEEDS	4080	4350	6200
90 PERCENT EXCEEDS	1360	1610	2000

a Also occurred on September 2, 1957.

e Estimated.

CONNECTICUT RIVER BASIN

01158000 ASHUELOT RIVER BELOW SURRY MOUNTAIN DAM, NEAR KEENE, NH

LOCATION.--Lat 42°59'41", long 72°18'42", Cheshire County, Hydrologic Unit 01080201, on right bank, 1000 ft south of Surry Mountain Dam, 2.7 mi upstream from Sturtevant Brook, 4.4 mi southwest of Post Office in Gilsum, 4.5 mi north of Courthouse in Keene, and at mile 34.0.

DRAINAGE AREA.--101 mi².

PERIOD OF RECORD.--Discharge records: September 1945 to September 1989, October 1995 to current year.

Peak streamflow: Water years 1946 to current year.

Miscellaneous discharge measurements only: Water years 1990 to 1995.

Water-quality discrete samples: Water years 1956 to 1959, 1965 to 1970, 1975 to 1999.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 480.00 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good. Flow regulated by Surry Mountain Dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 817 ft³/s, April 3, gage height, 7.89 ft; minimum daily discharge, 1.6 ft³/s, August 22.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	19	31	29	42	299	616	270	171	114	14	14
2	19	21	38	28	55	294	802	331	174	89	14	12
3	17	21	41	20	55	290	812	358	159	74	16	12
4	15	21	39	20	96	355	802	312	136	60	15	11
5	15	21	37	22	95	381	782	347	125	51	13	9.2
6	15	21	35	22	88	376	745	340	236	42	11	7.4
7	17	20	33	22	86	364	691	328	438	36	8.8	6.4
8	18	20	30	22	77	314	525	292	449	32	7.4	5.8
9	20	19	31	22	73	233	318	200	365	28	6.3	5.3
10	35	18	30	22	73	289	259	172	282	26	5.7	4.8
11	44	18	28	22	82	360	230	152	214	22	5.2	4.9
12	47	18	27	22	86	366	205	133	189	19	4.8	3.3
13	46	17	28	22	87	363	185	169	284	18	4.3	2.4
14	43	17	31	22	88	349	193	503	266	16	4.1	2.1
15	44	17	50	24	88	283	251	625	237	14	3.5	2.6
16	42	17	68	25	88	232	311	576	219	15	3.4	9.7
17	40	17	68	25	88	205	282	429	218	15	4.6	12
18	35	16	71	33	88	188	249	358	212	15	4.4	11
19	32	15	71	36	104	177	217	399	200	15	3.8	8.9
20	30	15	70	36	110	167	191	381	167	27	3.2	7.5
21	27	15	67	36	110	167	163	334	134	31	2.1	6.7
22	26	15	61	30	222	163	142	288	114	29	1.6	6.5
23	24	15	50	27	294	151	137	247	124	25	2.5	6.5
24	24	14	54	27	289	143	133	210	126	37	3.3	5.6
25	24	15	62	27	198	134	101	175	113	35	6.0	4.8
26	23	18	59	27	166	132	86	147	98	28	6.3	4.4
27	22	21	54	27	168	194	86	130	85	23	5.9	6.5
28	21	21	44	27	265	280	87	142	135	20	4.4	18
29	19	22	41	27	---	312	89	144	181	20	5.9	25
30	18	25	39	27	---	350	136	127	151	18	13	24
31	18	---	32	27	---	385	---	123	---	15	15	---
TOTAL	842	549	1420	805	3361	8296	9826	8742	6002	1009	218.5	260.3
MEAN	27.2	18.3	45.8	26.0	120	268	328	282	200	32.6	7.05	8.68
MAX	47	25	71	36	294	385	812	625	449	114	16	25
MIN	15	14	27	20	42	132	86	123	85	14	1.6	2.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1989, 1996 - 2002, BY WATER YEAR (WY)

MEAN	100	159	176	148	154	281	548	284	136	54.2	39.6	51.3
MAX	453	577	512	383	423	661	1022	632	634	229	334	233
(WY)	1978	1996	1997	1978	1981	1979	1960	1956	1984	1973	1986	1960
MIN	4.39	4.04	22.7	21.2	28.1	88.5	167	90.6	13.5	5.77	4.88	8.68
(WY)	1965	1965	1965	1981	1980	1956	1946	1986	1964	1965	1965	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1945 - 1989, 1996 - 2002

ANNUAL TOTAL	51126.4	41330.8	
ANNUAL MEAN	140	113	177
HIGHEST ANNUAL MEAN			279
LOWEST ANNUAL MEAN			57.3
HIGHEST DAILY MEAN	1160	Apr 26	812
LOWEST DAILY MEAN	1.9	Aug 31	1.6
ANNUAL SEVEN-DAY MINIMUM	3.1	Aug 25	3.0
MAXIMUM PEAK FLOW			817
MAXIMUM PEAK STAGE		7.89	Apr 3
10 PERCENT EXCEEDS	318		313
50 PERCENT EXCEEDS	55		37
90 PERCENT EXCEEDS	9.9		6.6

a From floodmarks.

CONNECTICUT RIVER BASIN

01158600 OTTER BROOK BELOW OTTER BROOK DAM NEAR KEENE, NH

LOCATION.--Lat 42°56'45", long 72°14'14", Cheshire County, Hydrologic Unit 01080201, on right bank, 450 ft downstream from Otter Brook Dam, 1.5 mi downstream of station 01158500, "Otter Brook near Keene", 2.2 mi northeast of City Hall in Keene, and 2.3 mi upstream from confluence with Minnewawa Brook to form "The Branch."

DRAINAGE AREA.--47.2 mi².

PERIOD OF RECORD.--Discharge records: May 1958 to September 1989, October 1995 to current year.

Peak streamflow: Water years 1959 to current year.

Miscellaneous discharge measurements only: Water years 1990 to 1995.

Water-quality discrete samples: Water years 1958, 1965 to 1970, 1975 to 1999.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 658.65 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to September 29, 1933, nonrecording gage on highway bridge at same datum.

REMARKS.--Records good. Flow regulated by Otter Brook Lake.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 435 ft³/s, May 15, gage height, 8.00 ft; minimum daily discharge, 1.8 ft³/s, September 14, 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	25	16	9.5	9.9	86	288	139	187	41	7.7	8.6
2	9.1	23	19	9.5	10	85	398	138	188	34	7.2	7.6
3	8.0	20	15	9.5	10	85	393	184	170	28	8.2	6.9
4	6.7	18	13	9.4	11	87	377	205	94	24	7.7	6.2
5	5.7	16	12	9.0	11	88	290	190	83	20	6.9	5.4
6	4.7	15	10	8.9	11	87	189	69	166	16	5.9	4.6
7	3.9	14	9.5	9.1	11	87	184	70	251	14	4.9	3.9
8	3.8	12	8.6	9.0	20	69	177	67	269	13	4.2	3.5
9	3.6	11	9.0	9.1	25	60	111	68	192	12	3.6	3.1
10	3.3	8.0	8.2	9.1	25	62	81	83	117	12	3.3	2.9
11	7.6	6.9	8.0	9.2	26	63	76	74	90	10	3.1	2.7
12	16	6.0	7.6	9.3	26	83	61	67	99	8.9	2.9	2.4
13	15	5.3	8.0	9.4	33	93	112	110	181	8.0	2.8	2.0
14	13	5.0	10	9.4	44	93	134	262	172	7.2	2.6	1.8
15	12	5.0	31	9.4	43	93	154	372	136	6.6	2.4	1.8
16	12	6.0	34	9.5	43	156	201	216	128	6.9	2.3	6.2
17	14	6.7	27	9.6	43	217	198	144	127	7.0	2.6	11
18	23	7.0	28	9.7	43	138	134	158	101	6.4	2.5	9.7
19	26	6.3	26	9.7	42	69	104	209	82	6.3	2.4	8.0
20	27	5.7	24	9.6	42	61	104	168	67	9.8	2.2	6.5
21	26	5.4	24	9.2	42	56	102	127	57	12	2.1	5.4
22	26	5.0	24	9.5	69	56	79	102	54	11	1.9	4.6
23	26	4.7	24	9.5	87	56	65	87	78	12	2.1	4.0
24	26	4.6	24	9.5	86	56	61	76	71	30	2.3	3.4
25	26	4.7	24	9.4	86	56	54	67	54	23	2.9	3.0
26	26	5.4	24	9.1	85	72	55	60	50	16	3.3	2.8
27	24	6.2	24	9.1	85	81	56	56	44	13	3.2	3.1
28	24	6.6	19	9.4	87	103	56	68	69	11	2.9	8.5
29	23	7.1	16	9.5	---	126	84	87	67	11	3.2	14
30	22	8.8	16	9.5	---	144	127	81	53	9.8	7.4	12
31	22	---	12	9.8	---	153	---	126	---	8.8	9.2	---
TOTAL	495.0	280.4	554.9	290.4	1155.9	2821	4505	3930	3497	448.7	125.9	165.6
MEAN	16.0	9.35	17.9	9.37	41.3	91.0	150	127	117	14.5	4.06	5.52
MAX	27	25	34	9.8	87	217	398	372	269	41	9.2	14
MIN	3.3	4.6	7.6	8.9	9.9	56	54	56	44	6.3	1.9	1.8

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1989, 1996 - 2002, BY WATER YEAR (WY)

MEAN	46.2	71.9	76.9	63.1	70.4	134	249	118	61.5	27.7	20.7	23.2
MAX	158	242	272	185	223	368	447	256	312	120	157	114
(WY)	1978	1996	1997	1978	1984	1979	1987	1969	1984	1973	1986	1999
MIN	0.86	3.20	12.8	8.97	14.3	29.8	88.6	34.4	3.78	2.65	2.21	0.77
(WY)	1965	1965	1965	1981	1965	1965	1985	1999	1964	1965	1963	1964

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1958 - 1989, 1996 - 2002

ANNUAL TOTAL	23097.19	18269.8		
ANNUAL MEAN	63.3	50.0	80.2	
HIGHEST ANNUAL MEAN			126	1960
LOWEST ANNUAL MEAN			23.2	1965
HIGHEST DAILY MEAN	614	Apr 27	398	Apr 2
LOWEST DAILY MEAN	0.99	Aug 31	a 1.8	Sep 14
ANNUAL SEVEN-DAY MINIMUM	1.2	Aug 25	2.2	Aug 18
MAXIMUM PEAK FLOW			435	May 15
MAXIMUM PEAK STAGE			8.00	May 15
10 PERCENT EXCEEDS	145		138	207
50 PERCENT EXCEEDS	23		18	41
90 PERCENT EXCEEDS	3.0		3.9	5.8

a Also occurred September 15.

b Includes bypass flow through spillway of the dam structure.

01160350 ASHUELOT RIVER AT WEST SWANZEY, NH

LOCATION.--Lat 42°52'16", long 72°19'42", Cheshire County, Hydrologic Unit 01080201, on left bank, 150 ft downstream of California/Main Street bridge in West Swanzey, 4.5 mi downstream from South Branch Ashuelot River, 5.0 mi southwest of City Hall in Keene, and 18.3 mi upstream from mouth.

DRAINAGE AREA.--316 mi².

PERIOD OF RECORD.--Discharge records: April 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 452 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those below 400 ft³/s, which are fair, and those for estimated daily discharges, which are poor. Flow regulated by Surry Mountain Lake 20 mi upstream since 1942, and by Otter Brook Lake 16 mi upstream on Otter Brook since 1958. Some regulation by small hydro plants upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,220 ft³/s, April 2, gage height, 3.64 ft; minimum daily discharge, 24 ft³/s, August 20, 22.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	160	111	82	171	598	1620	776	1260	332	60	58
2	86	134	121	79	200	561	2170	876	1110	266	73	51
3	83	131	123	77	182	671	2120	1090	776	228	79	48
4	76	118	113	63	199	864	2070	1030	533	201	67	46
5	66	100	104	66	e195	851	1940	947	441	164	59	44
6	60	95	97	66	177	754	1650	694	699	146	56	41
7	60	91	95	e66	172	683	1490	634	1240	132	50	35
8	61	68	84	67	164	596	1330	579	1510	120	45	32
9	72	59	86	69	156	443	966	486	1200	113	41	31
10	83	55	84	68	150	614	740	474	820	111	39	29
11	104	55	79	74	268	918	647	433	576	100	37	27
12	120	53	78	74	252	840	542	384	552	86	35	28
13	126	51	88	77	237	782	516	537	1010	73	35	26
14	122	55	112	75	209	740	567	1520	923	70	e32	27
15	129	58	192	82	207	643	772	1920	732	69	31	27
16	127	60	216	86	204	599	1050	1650	674	69	e30	96
17	121	60	187	84	218	591	938	1200	725	67	e37	88
18	128	60	189	81	217	590	747	1060	635	65	34	67
19	128	57	189	81	214	394	583	1350	519	66	28	55
20	136	53	177	93	234	371	530	1220	427	81	24	47
21	131	52	166	85	359	369	455	980	355	88	25	43
22	116	50	155	85	484	380	403	790	345	87	24	40
23	122	49	132	77	632	342	385	644	438	95	28	40
24	150	50	148	85	572	319	379	538	429	129	29	37
25	141	51	156	100	498	285	352	454	350	126	35	34
26	140	61	156	103	381	297	368	392	302	106	36	33
27	137	72	140	106	452	673	365	360	284	90	34	39
28	130	75	122	100	531	995	356	365	464	79	32	91
29	110	80	112	100	---	1040	447	405	553	72	41	92
30	106	88	103	130	---	1170	636	418	450	68	75	81
31	124	---	97	159	---	1360	---	717	---	62	71	---
TOTAL	3373	2201	4012	2640	7935	20333	27134	24923	20332	3561	1322	1433
MEAN	109	73.4	129	85.2	283	656	904	804	678	115	42.6	47.8
MAX	150	160	216	159	632	1360	2170	1920	1510	332	79	96
MIN	60	49	78	63	150	285	352	360	284	62	24	26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002			
MEAN	331	489	551	560	493	893	1360	730	402	187	128	141
MAX	761	1539	1723	1076	1007	1264	2353	1511	1067	362	423	514
(WY)	1996	1996	1997	1996	1996	1998	1994	1996	1998	1996	2000	1999
MIN	108	73.4	129	85.2	283	439	518	316	89.1	91.9	42.6	47.8
(WY)	1998	2002	2002	2002	2002	2001	1995	1995	1999	1999	2002	1995

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1994 - 2002

ANNUAL TOTAL	152573	119199					
ANNUAL MEAN	418	327	510				
HIGHEST ANNUAL MEAN			781	1996			
LOWEST ANNUAL MEAN			327	2002			
HIGHEST DAILY MEAN	3370	Apr 12	2170	Apr 2	a 3370	Apr 12	2001
LOWEST DAILY MEAN	22	Aug 31	b 24	Aug 20	20	Aug 13	1999
ANNUAL SEVEN-DAY MINIMUM	25	Aug 25	27	Aug 18	21	Aug 7	1999
MAXIMUM PEAK FLOW			2220	Apr 2	3620	Apr 17	1996
MAXIMUM PEAK STAGE			3.64	Apr 2	c 6.30	Mar 7	1999
10 PERCENT EXCEEDS	1170	856			1330		
50 PERCENT EXCEEDS	189	129			292		
90 PERCENT EXCEEDS	50	41			60		

- a Also occurred on April 13, 2001.
- b Also occurred on August 22, 2002.
- c Ice Jam.
- e Estimated.

CONNECTICUT RIVER BASIN

01161000 ASHUELOT RIVER AT HINSDALE, NH

LOCATION.--Lat 42°47'09", long 72°29'12", Cheshire County, Hydrologic Unit 01080201, on left bank, 40 ft upstream from State Highway 63S bridge in Hinsdale, 200 ft south of State Highway 63S and 119W intersection in Hinsdale, 0.2 mi downstream from dam, and 1.3 mi upstream from mouth.

DRAINAGE AREA.--420 mi².

PERIOD OF RECORD.--Discharge records: March 1907 to December 1911, July 1914 to current year.

REVISED RECORDS.--WSP 661: Drainage area. WSP 781: 1907-10, 1914-34. WSP 1301: 1915(M), 1917-19(M), 1921-33(M). WSP 1701: 1920.

GAGE.--Water-stage recorder. Datum of gage is 201.32 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to September 29, 1933, nonrecording gage on State Highway 63S bridge at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Surry Mountain Lake 33 mi upstream since 1942, and by Otter Brook Lake 29 mi upstream on Otter Brook since 1958. Regulation by small hydro plants upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,600 ft³/s, March 19, 1936, by computation of peak flow over dam; maximum gage height, 20.2 ft, March 19, 1936, from floodmarks (backwater from the Connecticut River); minimum daily discharge, 12 ft³/s, September 15, 1929. Maximum discharge since at least 1859, that of March 19, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,360 ft³/s, April 2, gage height, 6.15 ft; minimum daily discharge, 35 ft³/s, September 13, 14.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	158	136	e140	249	770	1780	994	1320	527	87	95
2	107	196	154	e130	e275	742	2250	1040	1340	396	95	80
3	109	174	160	e120	e265	842	2260	1230	1020	330	112	74
4	102	170	148	e110	e260	1040	2170	1240	786	289	106	72
5	92	145	144	103	e255	1010	2040	1090	628	241	92	65
6	82	135	133	107	e250	914	1770	957	776	204	79	57
7	75	129	130	110	e230	866	1560	844	1290	184	67	56
8	69	119	124	e115	218	811	1420	778	1630	167	64	53
9	66	99	123	110	204	694	1200	700	1410	158	61	49
10	77	89	120	110	e200	791	970	659	1090	158	57	46
11	101	85	118	116	347	1080	879	627	835	144	56	44
12	117	80	113	122	429	999	785	559	708	131	57	39
13	134	79	117	e120	354	924	706	730	1030	116	51	35
14	136	78	144	e120	324	889	802	1800	1090	103	49	35
15	151	80	242	116	296	837	1030	2190	937	96	47	36
16	179	83	319	123	277	757	1290	1930	868	91	47	82
17	174	88	291	122	288	763	1190	1470	916	87	60	143
18	163	80	278	120	288	832	1020	1310	874	86	55	108
19	160	81	282	e120	272	621	841	1590	741	85	47	83
20	145	80	263	e135	295	592	771	1490	632	95	47	73
21	162	76	246	e125	443	597	679	1240	511	106	44	66
22	144	73	227	122	655	620	605	1050	461	111	41	61
23	143	73	e192	e115	808	566	579	910	624	111	42	61
24	166	73	e200	118	760	533	568	795	644	152	43	55
25	173	74	230	140	734	482	538	685	511	162	50	54
26	168	82	222	148	607	483	567	590	399	145	47	51
27	165	89	e210	151	680	920	567	524	370	123	47	58
28	159	94	e185	150	754	1260	544	493	647	118	44	103
29	146	e100	e180	146	---	1280	691	538	847	109	54	140
30	131	e110	e150	168	---	1380	923	547	726	103	104	123
31	129	---	e160	222	---	1600	---	811	---	93	112	---
TOTAL	4041	3072	5741	3974	11017	26495	32995	31411	25661	5021	1964	2097
MEAN	130	102	185	128	394	855	1100	1013	855	162	63.4	69.9
MAX	179	196	319	222	808	1600	2260	2190	1630	527	112	143
MIN	66	73	113	103	200	482	538	493	370	85	41	35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1907 - 1911, 1914 - 2002, BY WATER YEAR (WY)

	1907	1908	1909	1910	1911	1914	1915	1916	1917	1918	1919	1920
MEAN	345	585	657	604	604	1238	1878	990	523	276	224	241
MAX (WY)	1474	2248	2209	1539	2016	4392	3723	2175	2075	1182	1098	2394
MIN (WY)	1976	1928	1997	1978	1984	1936	1960	1945	1984	1915	1990	1938
MEAN	49.2	55.4	113	84.0	113	273	597	335	96.9	60.8	50.5	53.0
MIN (WY)	1965	1965	1915	1981	1980	1940	1985	1985	1964	1965	1966	1995

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1907 - 1911, 1914 - 2002

ANNUAL TOTAL	199726	153489		
ANNUAL MEAN	547	420		
HIGHEST ANNUAL MEAN			680	
LOWEST ANNUAL MEAN			1093	1960
HIGHEST DAILY MEAN	4780	Apr 14	216	1965
LOWEST DAILY MEAN	40	Aug 31	16500	Mar 19 1936
ANNUAL SEVEN-DAY MINIMUM	45	Aug 25	12	Sep 15 1929
MAXIMUM PEAK FLOW			41	Sep 9
MAXIMUM PEAK STAGE			2360	Apr 2
10 PERCENT EXCEEDS	1570		6.15	Apr 2
50 PERCENT EXCEEDS	271			32
90 PERCENT EXCEEDS	74			Aug 16 1966
				Mar 19 1936
				Mar 19 1936
				1710
				375
				96

a Also occurred on September 14.

b By computation of peak flow over dam. From floodmarks (backwater from Connecticut River).

c From floodmarks.

e Estimated.

04280350 METTAWEE RIVER NEAR PAWLET, VT

LOCATION.--Lat 43°22'14", long 73°13'00", Rutland County, Hydrologic Unit 02010001, on left bank, 10 ft downstream from Betts Bridge Road bridge, 20 ft southwest of Betts Bridge Road and Offesend Road intersection, 0.8 mi upstream of State Highway 153 bridge, 1.0 mi southwest of Offesend Road and State Highway 30 intersection at Butternut Bend, and 2.5 mi northwest of State Highways 30 and 133 intersection in Pawlet.

DRAINAGE AREA.--70.2 mi².

PERIOD OF RECORD.--Discharge records: October 1984 to current year.

REVISED RECORDS.--WDR NH-VT-97-1: 1993, 1994, 1996 (P).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 525 ft above National Geodetic Vertical Datum of 1929, 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 750 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 11	0300	e 1,000	* b 4.79	Jun. 12	1700	815	3.85
Apr. 15	0945	* 1,500	4.57				

Minimum discharge, 5.0 ft³/s, September 10, 11.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	23	47	e37	e128	193	484	193	171	71	15	10
2	14	23	39	e35	e170	176	406	232	135	65	19	9.6
3	13	23	34	e33	e120	299	389	243	117	60	24	8.9
4	13	21	31	e33	e105	304	368	208	105	54	18	8.1
5	11	23	31	e31	e94	232	315	189	108	49	16	7.2
6	11	29	29	e28	e88	205	279	174	288	47	14	6.8
7	14	25	27	e29	e85	190	245	163	209	45	13	6.6
8	13	23	26	e28	e82	182	223	151	165	42	12	6.2
9	12	23	27	e28	e79	187	213	151	144	40	12	5.9
10	12	22	26	e28	e120	448	235	160	127	39	11	5.7
11	11	21	25	e27	e700	325	210	133	118	35	10	6.0
12	11	20	25	e27	e320	276	186	145	333	32	9.4	7.7
13	10	19	27	e26	e208	248	204	311	322	30	8.9	6.6
14	9.4	19	31	e26	e180	232	319	471	220	28	8.1	5.9
15	22	19	59	e25	e165	207	955	383	207	28	8.7	7.5
16	21	18	48	e25	e153	e190	586	315	223	29	8.5	27
17	17	18	45	e24	e140	e175	443	328	221	27	9.0	17
18	15	17	84	e25	e127	e165	365	381	182	25	7.8	12
19	14	17	68	e25	e125	e160	313	355	157	25	7.3	10
20	13	21	e58	e25	e124	e155	275	312	137	27	7.5	8.9
21	13	21	e51	e24	302	e145	244	281	122	23	7.4	9.0
22	14	19	e45	e25	323	e137	226	255	119	22	7.0	18
23	15	18	e44	e25	248	e128	228	224	124	21	8.4	16
24	16	17	e47	68	212	128	204	203	110	22	8.3	12
25	18	19	e45	110	199	123	207	185	95	20	12	10
26	20	26	e45	76	202	126	223	167	87	19	9.6	9.6
27	17	25	e42	71	285	446	187	152	120	18	8.5	12
28	16	24	e39	74	229	353	176	139	107	18	7.5	26
29	16	28	e37	87	---	352	215	135	89	21	8.7	19
30	14	33	e36	114	---	511	209	127	77	17	17	15
31	13	---	e38	e90	---	465	---	160	---	16	12	---
TOTAL	443.4	654	1256	1329	5313	7463	9132	7026	4739	1015	345.6	330.2
MEAN	14.3	21.8	40.5	42.9	190	241	304	227	158	32.7	11.1	11.0
MAX	22	33	84	114	700	511	955	471	333	71	24	27
MIN	9.4	17	25	24	79	123	176	127	77	16	7.0	5.7
CFSM	0.20	0.31	0.58	0.61	2.70	3.43	4.34	3.23	2.25	0.47	0.16	0.16
IN.	0.23	0.35	0.67	0.70	2.82	3.95	4.84	3.72	2.51	0.54	0.18	0.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2002, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	69.4	117	129	134	113	194	283	154	86.7	57.8	45.4	38.4						
MAX	286	233	317	344	194	274	559	371	167	169	128	99.3						
(WY)	1988	1989	1997	1998	2000	1998	1994	1996	2001	1996	2000	1987						
MIN	14.3	21.8	40.5	42.9	45.5	73.7	115	55.4	32.8	13.8	11.1	10.6						
(WY)	2002	2002	2002	2002	1987	2001	1995	1987	1999	1995	2002	1995						

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1985 - 2002

ANNUAL TOTAL	33955.8	39046.2	
ANNUAL MEAN	93.0	107	118
HIGHEST ANNUAL MEAN			159
LOWEST ANNUAL MEAN			75.9
HIGHEST DAILY MEAN	1310	Apr 13	2860
LOWEST DAILY MEAN	a 7.3	Sep 18	5.7
ANNUAL SEVEN-DAY MINIMUM	8.0	Sep 14	6.3
MAXIMUM PEAK FLOW			1500
MAXIMUM PEAK STAGE			b 4.79
INSTANTANEOUS LOW FLOW			c 5.0
ANNUAL RUNOFF (CFSM)	1.33	1.52	1.69
ANNUAL RUNOFF (INCHES)	17.99	20.69	22.90
10 PERCENT EXCEEDS	178	283	249
50 PERCENT EXCEEDS	51	39	78
90 PERCENT EXCEEDS	13	10	22

a Also occurred on September 19, 2001.
b Ice Jam.
c Also occurred on September 11.
e Estimated.

ST. LAWRENCE RIVER BASIN

04282000 OTTER CREEK AT CENTER RUTLAND, VT

LOCATION.--Lat 43°36'13", long 73°00'49", Rutland County, Hydrologic Unit 02010002, on right bank, 200 ft downstream from dam, 500 ft upstream from bridge on US Highway 4 (Business) in Center Rutland, 0.3 mi upstream of Clarendon River, 1.2 mi downstream from East Creek, and 2.1 mi west of US 7N and 4E intersection in Rutland.

DRAINAGE AREA.--307 mi².

PERIOD OF RECORD.--Discharge records: May 1928 to current year.

REVISED RECORDS.--WSP 1084: 1929.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 474.80 ft above National Geodetic Vertical Datum of 1929; prior to October 1, 1964, datum was 1.00 ft higher. Prior to July 22, 1929, nonrecording gage at same site.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by power plants and Chittenden Reservoir 14 mi upstream on East Creek. These reservoirs have a combined usable capacity of about 819.8 million ft³. Prior to June 3, 1947, regulation by East Pittsford Reservoir, usable capacity, 150 million ft³.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 14	0415	* 5,570	* 9.79	No other peak greater than base discharge.			

Minimum daily discharge, 39 ft³/s, August 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	137	374	e130	429	640	1880	878	790	268	150	64
2	97	162	328	e140	e580	524	1790	885	551	247	127	58
3	99	146	240	e175	e405	717	1410	1110	508	249	96	55
4	82	132	196	e168	e450	1150	1470	906	446	183	84	51
5	79	149	178	e170	e360	e680	1130	710	458	148	117	59
6	76	161	171	e141	e315	e560	913	668	842	145	95	48
7	80	166	155	e152	e305	e540	775	636	903	150	72	41
8	89	154	140	e147	e295	514	720	605	592	166	66	40
9	79	150	144	e162	e263	605	746	529	470	168	62	58
10	74	143	146	e170	e240	2080	1340	556	444	145	56	60
11	76	137	141	227	946	1480	1310	450	404	124	52	63
12	71	136	136	231	649	1080	1090	411	874	129	77	54
13	71	146	143	172	e760	830	1500	851	1510	116	89	55
14	71	145	219	194	e515	784	4180	1710	1100	102	92	48
15	105	154	505	222	e520	827	3600	1540	799	115	89	59
16	133	157	384	e210	e505	844	3510	1340	896	154	74	231
17	119	123	325	e203	e470	820	2330	1190	932	145	59	183
18	112	110	356	e190	e430	713	1570	1260	726	170	39	111
19	92	112	330	e174	e400	622	1300	1240	555	156	61	106
20	89	132	325	e150	e440	e560	1050	1090	461	148	54	77
21	91	134	320	184	756	e520	925	953	388	118	48	70
22	101	122	276	201	1080	e490	794	856	352	124	42	101
23	104	119	168	184	878	e450	600	763	418	260	69	147
24	112	115	197	258	632	e440	745	691	415	253	52	131
25	135	117	225	445	613	e430	750	577	318	128	59	105
26	154	171	e220	440	647	426	822	510	302	105	63	95
27	120	178	e210	323	947	1180	723	471	e460	95	53	102
28	113	160	e195	322	801	1220	641	478	449	94	47	238
29	117	157	e182	335	---	1040	768	454	319	144	49	206
30	109	292	e157	418	---	1440	746	425	254	168	64	168
31	101	---	e150	390	---	1750	---	552	---	141	72	---
TOTAL	3072	4417	7236	7028	15631	25956	41128	25295	17936	4858	2229	2884
MEAN	99.1	147	233	227	558	837	1371	816	598	157	71.9	96.1
MAX	154	292	505	445	1080	2080	4180	1710	1510	268	150	238
MIN	71	110	136	130	240	426	600	411	254	94	39	40
CFSM	.32	.48	.76	.74	1.82	2.73	4.47	2.66	1.95	.51	.23	.31
IN.	.37	.54	.88	.85	1.89	3.15	4.98	3.07	2.17	.59	.27	.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2002, BY WATER YEAR (WY)

	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	349	498	507	476	461	824	1470	825	441	286	240	253																																																															
MAX	1227	1025	1291	1094	1564	2376	3078	2120	1565	1047	1591	1385																																																															
(WY)	1988	1960	1984	1949	1981	1936	1969	1940	1947	1976	1976	1938																																																															
MIN	86.5	141	126	100	110	231	445	271	130	78.2	65.5	78.4																																																															
(WY)	1965	1965	1948	1948	1980	1965	1995	1941	1965	1965	1999	1964																																																															

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1928 - 2002
ANNUAL TOTAL	170338	157670	
ANNUAL MEAN	467	432	552
HIGHEST ANNUAL MEAN			1049
LOWEST ANNUAL MEAN			239
HIGHEST DAILY MEAN	6050	Apr 23	4180
LOWEST DAILY MEAN	a 53	Sep 19	39
ANNUAL SEVEN-DAY MINIMUM	58	Sep 14	50
MAXIMUM PEAK FLOW			5570
MAXIMUM PEAK STAGE		9.79	Apr 14
ANNUAL RUNOFF (CFSM)	1.52	1.41	b 12.45
ANNUAL RUNOFF (INCHES)	20.64	19.11	1.80
10 PERCENT EXCEEDS	829	988	1200
50 PERCENT EXCEEDS	258	219	338
90 PERCENT EXCEEDS	96	71	132

a Also occurred on September 20.
b At datum then in use.
c Estimated.

04282500 OTTER CREEK AT MIDDLEBURY, VT

LOCATION.--Lat 44°00'47", long 73°10'06", Addison County, Hydrologic Unit 02010002, on right bank, 150 ft upstream from State Highway 125 bridge in Middlebury, 0.1 mi southwest of US 7 and State Highway 125 intersection, and 3.6 mi downstream from Middlebury River.

DRAINAGE AREA.--628 mi².

PERIOD OF RECORD.--Discharge records: April 1903 to April 1907, October 1910 to January 1920, October 1928 to current year.

REVISED RECORDS.--WSP 434: 1903-04. WSP 684: 1913(M), drainage area. WSP 1114: 1913. WSP 1207: 1929, 1931.

GAGE.--Water-stage recorder. Datum of gage is 335.75 ft above National Geodetic Vertical Datum of 1929. Nonrecording gage at site 1,800 ft upstream at datum 10 ft lower, April 1, 1903 to April 30, 1907, and October 5, 1910 to January 31, 1920, nonrecording gage at present site and datum, October 1, 1928 to October 17, 1933.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Some regulation by Chittenden Reservoir, usable capacity, 819 million ft³ on East Creek.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1830, 13,600 ft³/s, November 4, 1927, gage height, 13.3 ft, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,540 ft³/s, April 20, gage height, 5.13 ft; minimum daily discharge, 86 ft³/s, September 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183	196	584	e265	497	1570	2240	1970	1010	540	255	124
2	181	230	600	e237	e720	1410	2340	1910	1130	528	234	122
3	163	251	533	e235	e780	1290	2380	1900	953	494	221	113
4	152	256	456	e250	e770	1560	2420	1850	825	493	200	116
5	140	247	391	e265	e775	1620	2430	1780	752	417	173	102
6	134	299	378	e260	e715	1570	2420	1630	759	366	181	97
7	134	269	346	e250	e640	1400	2390	1440	1020	352	199	101
8	135	258	290	e230	e580	1190	2310	1280	1100	357	169	96
9	140	251	265	264	e500	1100	2190	1120	902	409	155	86
10	143	260	266	282	e460	1740	2260	982	734	401	145	134
11	134	228	306	302	992	1840	2110	904	678	342	139	149
12	131	215	332	316	1420	1910	2060	785	752	293	135	174
13	134	216	342	340	1470	1970	2110	896	1350	280	121	151
14	135	252	312	315	1410	2000	2750	1730	1590	270	137	127
15	143	280	359	291	1290	1960	2670	1950	1650	248	145	116
16	166	286	558	e300	1160	1880	2670	2050	1610	254	153	216
17	198	283	558	e310	1040	1750	2750	2190	1620	298	146	381
18	197	221	485	e308	908	1620	2940	2260	1550	331	139	311
19	182	185	505	e290	771	1460	3250	2290	1390	373	116	229
20	169	189	525	e280	796	1320	3480	2270	1120	337	101	151
21	155	212	520	283	997	1230	3480	2230	846	290	119	130
22	165	215	474	279	1370	1140	3400	2140	692	256	106	136
23	176	202	e400	293	1530	983	3240	2000	686	300	112	204
24	177	189	e335	324	1590	855	3010	1820	714	456	134	240
25	182	186	e330	469	1440	808	2800	1600	681	415	134	226
26	206	198	e340	618	1300	771	2630	1330	620	289	120	184
27	230	238	e360	624	1490	949	2420	1040	1050	233	117	183
28	206	265	e350	558	1590	1550	2230	859	960	219	112	508
29	191	293	e300	572	---	1770	2140	816	810	216	107	585
30	180	352	e295	574	---	1940	2030	782	642	234	111	401
31	181	---	e280	545	---	2090	---	810	---	264	126	---
TOTAL	5143	7222	12375	10729	29001	46246	77550	48614	30196	10555	4562	5893
MEAN	166	241	399	346	1036	1492	2585	1568	1007	340	147	196
MAX	230	352	600	624	1590	2090	3480	2290	1650	540	255	585
MIN	131	185	265	230	460	771	2030	782	620	216	101	86
CFSM	0.26	0.38	0.64	0.55	1.65	2.38	4.12	2.50	1.60	0.54	0.23	0.31
IN.	0.30	0.43	0.73	0.64	1.72	2.74	4.59	2.88	1.79	0.63	0.27	0.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903-07, 11-20, 29-02 BY WATER YEAR (WY)

MEAN	633	859	912	878	860	1517	2560	1528	828	544	458	474
MAX	2021	1897	2610	2509	2414	4538	4500	3717	3025	1833	2624	2411
(WY)	1988	1976	1984	1949	1981	1936	1960	1996	1947	1996	1976	1938
MIN	166	241	246	205	229	384	885	370	208	126	129	168
(WY)	2002	2002	1948	1948	1980	1940	1995	1903	1965	1965	1965	1982

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1903-07, 11-20, 29-02

ANNUAL TOTAL	307933	288086										
ANNUAL MEAN	844	789							1002			
HIGHEST ANNUAL MEAN									1878			1976
LOWEST ANNUAL MEAN									397			1965
HIGHEST DAILY MEAN				5730	Apr 27	a 3480	Apr 20		11000	Mar 21	1936	
LOWEST DAILY MEAN				112	Sep 18	86	Sep 9		86	Sep 9	2002	
ANNUAL SEVEN-DAY MINIMUM				115	Sep 14	102	Sep 3		102	Sep 3	2002	
MAXIMUM PEAK FLOW						3540	Apr 20		11000	Mar 20	1936	
MAXIMUM PEAK STAGE						5.13	Apr 20		10.30	Mar 20	1936	
ANNUAL RUNOFF (CFSM)				1.34		1.26			1.60			
ANNUAL RUNOFF (INCHES)				18.24		17.06			21.69			
10 PERCENT EXCEEDS				1910		2050			2320			
50 PERCENT EXCEEDS				501		381			631			
90 PERCENT EXCEEDS				158		137			255			

a Also occurred on April 21.
e Estimated.

ST. LAWRENCE RIVER BASIN

04282525 NEW HAVEN RIVER AT BROOKSVILLE NEAR MIDDLEBURY, VT

LOCATION.--Lat 44°03'42", long 73°10'16", Rutland County, Hydrologic Unit 02010002, on left bank, at downstream side of Dog Team Road bridge, 0.2 mi south of Brooksville, 0.6 mi upstream from mouth, 1.5 mi downstream of Muddy Branch, 3.3 mi north of US 7 and State Highway 125 intersection in Middlebury.

DRAINAGE AREA.-- 115 mi².

PERIOD OF RECORD.--Discharge records: October 1990 to current year.

REVISED RECORDS.--WDR NH-VT-97-1: 1991(P), 1992(P), 1993(P), 1994(P), 1995(P), 1996(P).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 235 ft above National Geodetic Vertical Datum of 1929, 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 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 10	0815	2,160	7.03	Apr. 14	0530	* 5,100	* 8.98

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	60	395	e48	e150	e180	575	260	187	90	34	19
2	35	65	180	e44	e260	e165	492	294	122	81	33	17
3	32	65	126	e43	e180	e380	384	334	104	75	32	17
4	30	63	104	e40	e160	e350	326	234	95	71	28	16
5	28	84	110	e48	e140	e230	256	208	96	89	25	15
6	29	118	101	e50	e130	e195	221	187	106	92	29	14
7	37	85	104	e51	e120	e170	188	178	101	95	41	14
8	36	91	86	e53	e105	e160	184	163	84	108	35	14
9	37	76	79	e55	e96	e240	217	146	78	174	28	13
10	48	69	74	e56	e92	1180	632	140	71	122	25	12
11	46	63	71	61	e540	454	374	143	70	84	23	16
12	35	59	69	64	e300	311	284	130	352	69	21	70
13	30	54	71	63	e205	261	585	263	281	60	20	38
14	28	55	83	58	e160	244	2730	814	147	55	20	26
15	37	67	88	59	e168	228	e1080	507	143	50	19	26
16	53	71	e68	60	e167	e240	e650	354	235	47	18	74
17	40	67	e66	56	e150	e205	505	579	202	47	24	57
18	37	59	82	e51	e115	197	398	408	155	47	20	37
19	35	56	80	e43	e105	176	315	346	124	51	18	30
20	33	76	85	e52	e108	e170	261	265	102	55	18	25
21	34	85	99	e53	e280	e157	215	233	87	45	20	23
22	47	69	e77	e54	e330	e146	194	207	134	38	19	30
23	48	61	e73	e54	e220	e140	212	180	193	39	35	38
24	42	57	e75	e75	e180	e130	207	162	234	48	31	32
25	40	56	e72	e148	e170	130	203	158	130	39	25	26
26	43	64	e66	e110	e185	127	267	159	106	35	22	23
27	40	65	e62	101	e320	246	198	136	528	37	20	31
28	38	61	e57	113	e220	327	184	118	218	37	18	488
29	37	65	e56	137	---	294	341	107	138	38	18	131
30	36	206	e54	e110	---	443	300	119	105	40	22	78
31	35	---	e50	e108	---	436	---	176	---	38	21	---
TOTAL	1163	2192	2863	2118	5356	8312	12978	7708	4728	1996	762	1450
MEAN	37.5	73.1	92.4	68.3	191	268	433	249	158	64.4	24.6	48.3
MAX	53	206	395	148	540	1180	2730	814	528	174	41	488
MIN	28	54	50	40	92	127	184	107	70	35	18	12
CFSM	0.33	0.64	0.80	0.59	1.66	2.33	3.76	2.16	1.37	0.56	0.21	0.42
IN.	0.38	0.71	0.93	0.69	1.73	2.69	4.20	2.49	1.53	0.65	0.25	0.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2002, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	166	199	191	185	141	280	461	270	152	113	102	97.8
MAX	409	369	409	450	283	554	763	592	448	344	257	263
(WY)	1991	1991	1997	1998	2000	1998	1994	1996	1998	1998	1998	1998
MIN	37.5	73.1	92.4	68.3	46.5	110	182	126	51.0	44.7	24.6	43.3
(WY)	2002	2002	2002	2002	1992	2001	1995	1995	1995	1993	2002	2001

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1991 - 2002

ANNUAL TOTAL	54430	51626	
ANNUAL MEAN	149	141	193
HIGHEST ANNUAL MEAN			292
LOWEST ANNUAL MEAN			128
HIGHEST DAILY MEAN	2170	Apr 13	6880
LOWEST DAILY MEAN	a 19	Sep 17	12
ANNUAL SEVEN-DAY MINIMUM	19	Sep 14	14
MAXIMUM PEAK FLOW			b 21700
MAXIMUM PEAK STAGE			c 14.18
INSTANTANEOUS LOW FLOW		d 11	d 11
ANNUAL RUNOFF (CFSM)	1.30	1.23	1.68
ANNUAL RUNOFF (INCHES)	17.61	16.70	22.81
10 PERCENT EXCEEDS	280	304	388
50 PERCENT EXCEEDS	85	82	120
90 PERCENT EXCEEDS	29	26	44

a Also occurred on September 18-20, 2001.
 b From rating curve extended above 5,300 ft³/s.
 c From floodmarks.
 d Also occurred on September 11.
 e Estimated.

04282650 LITTLE OTTER CREEK AT FERRISBURG, VT

LOCATION.--Lat 44°11'53", long 73°14'58", Addison County, Hydrologic Unit 02010002, on left bank, downstream side of US 7 Highway bridge, 0.5 mi south of Middle Brook Road and US 7 intersection in Ferrisburg, 2.2 mi north of Town Hall in Vergennes, 2.4 mi downstream of Mud Creek.

DRAINAGE AREA.-- 57.1 mi².

PERIOD OF RECORD.--Discharge records: March 1990 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 145 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to October 23, 1990, nonrecording gage at same site and datum.

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

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)
Apr. 15	2015	* 360	* 2.95	No other peaks greater than base discharge.			
Minimum discharge, 0.56 ft ³ /s, September 9, 10.							

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	2.7	21	e7.1	e27	e32	157	90	30	19	3.2	1.7
2	2.6	3.9	19	e7.2	e38	e29	142	86	21	15	2.6	1.8
3	2.3	4.3	13	e7.2	e35	e43	115	107	15	12	2.3	1.5
4	2.1	3.9	11	e7.0	e32	e66	87	84	14	11	2.2	1.2
5	1.9	4.2	9.5	e7.2	e27	e58	67	63	14	10	1.7	1.0
6	1.8	6.8	10	e7.8	e24	e54	54	50	19	10	1.4	0.87
7	1.7	7.3	9.2	e8.1	e21	e47	44	39	19	14	1.5	0.76
8	1.8	5.8	8.1	e8.4	e19	44	38	32	15	12	1.4	0.70
9	1.9	4.5	9.4	e8.6	e18	47	37	27	13	17	1.4	0.66
10	1.8	4.2	8.7	e8.8	e17	74	39	25	11	15	1.2	0.64
11	1.9	4.4	8.0	e9.0	e15	69	34	21	10	11	1.1	0.79
12	1.9	4.3	7.7	e9.1	e36	56	29	19	65	9.1	0.99	1.2
13	1.8	4.3	7.7	e9.0	e30	48	30	36	116	8.8	1.0	2.1
14	1.8	4.3	8.3	e9.0	e24	43	229	209	61	8.4	2.0	1.9
15	2.2	4.4	10	e9.2	e20	37	317	238	51	7.4	1.4	2.1
16	2.5	4.7	e9.4	e9.4	e26	34	302	206	89	5.8	1.9	3.0
17	2.9	4.3	e9.2	e9.0	e33	29	200	134	65	5.1	2.5	3.3
18	2.7	4.5	e8.8	e8.4	e28	26	110	89	50	4.4	3.0	2.8
19	2.4	4.4	e8.5	e7.7	e25	25	69	71	37	3.8	1.7	2.0
20	2.1	4.1	e8.2	e7.4	e22	26	47	53	28	3.4	1.5	1.5
21	3.3	4.8	e8.1	e8.2	e23	31	36	44	22	3.0	1.2	1.4
22	3.5	5.3	e7.8	e8.6	e34	35	31	37	39	2.7	1.5	2.1
23	3.2	5.0	e7.6	e9.0	e48	30	37	31	86	2.6	2.0	14
24	2.8	4.9	e7.8	e15	e37	27	38	27	65	2.3	1.6	8.8
25	3.0	5.1	e8.2	e19	e30	25	33	23	40	2.4	2.2	4.1
26	2.7	5.3	e8.4	e16	e25	36	42	20	32	2.2	2.3	2.5
27	2.6	6.1	e8.2	e15	e42	37	39	17	50	2.0	1.7	2.9
28	2.3	6.1	e7.8	e15	e39	130	35	16	48	2.0	1.3	71
29	2.2	6.2	e7.7	e18	---	231	89	13	36	3.4	1.4	38
30	2.1	8.6	e7.4	e17	---	257	105	14	25	3.0	1.1	21
31	2.3	---	e7.4	e15	---	201	---	20	---	3.5	1.2	---
TOTAL	73.1	148.7	291.1	320.4	795	1927	2632	1941	1186	231.3	53.49	197.32
MEAN	2.36	4.96	9.39	10.3	28.4	62.2	87.7	62.6	39.5	7.46	1.73	6.58
MAX	3.5	8.6	21	19	48	257	317	238	116	19	3.2	71
MIN	1.7	2.7	7.4	7.0	15	25	29	13	10	2.0	0.99	0.64
CFSM	0.04	0.09	0.16	0.18	0.50	1.09	1.54	1.10	0.69	0.13	0.03	0.12
IN.	0.05	0.10	0.19	0.21	0.52	1.26	1.71	1.26	0.77	0.15	0.03	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	46.3	64.8	65.9	75.3	46.9	103	163	62.4	31.5	21.3	22.8	17.3	
MAX	178	174	226	259	153	193	377	203	127	123	107	58.7	
(WY)	1991	1991	1997	1996	2000	1990	2001	1996	1998	1998	1990	1998	
MIN	2.36	4.96	9.39	10.3	18.0	26.7	34.8	15.2	4.16	2.83	1.61	3.02	
(WY)	2002	2002	2002	2002	1992	2001	1995	2001	1995	1999	1999	2001	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1990 - 2002

ANNUAL TOTAL	15550.8	9796.41	
ANNUAL MEAN	42.6	26.8	
HIGHEST ANNUAL MEAN			58.8
LOWEST ANNUAL MEAN			103
HIGHEST DAILY MEAN	1410	Apr 10	1996
LOWEST DAILY MEAN	a 1.5	Sep 17	2002
ANNUAL SEVEN-DAY MINIMUM	1.6	Sep 14	2002
MAXIMUM PEAK FLOW			1620
MAXIMUM PEAK STAGE			Jan 9 1998
INSTANTANEOUS LOW FLOW			0.64
ANNUAL RUNOFF (CFSM)	0.75	0.47	Sep 10 2002
ANNUAL RUNOFF (INCHES)	10.13	6.38	Sep 5 2002
10 PERCENT EXCEEDS	45	65	0.77
50 PERCENT EXCEEDS	10	9.4	Sep 5
90 PERCENT EXCEEDS	2.5	1.8	Apr 15
			Jan 20 1996
			c 5.77
			Feb 27 2000
			d 0.56
			Sep 10 2002
			1.03
			13.99
			140
			23
			4.2

a Also occurred on September 18, 2001.
 b From rating curve extended above 920 ft³/s.
 c Ice Jam.
 d Also occurred on September 10.
 e Estimated.

ST. LAWRENCE RIVER BASIN

04282780 LEWIS CREEK NEAR NORTH FERRISBURG, VT

LOCATION.--Lat 44°14'57", long 73°13'44", Addison County, Hydrologic Unit 02010002, on right bank, 100 ft upstream of US 7 Highway bridge, 1.1 mi southwest of Four Winds Road and Hollow Road intersection in North Ferrisburg, 1.2 mi south of Mount Philo Peak, and 5.7 mi north of Town Hall in Vergennes.

DRAINAGE AREA.--77.2 mi².

PERIOD OF RECORD.--Discharge records: March 1990 to current year. Published as "at North Ferrisburg" prior to October 1996.

GAGE.--Water-stage recorder. Elevation of gage is 105 ft above National Geodetic Vertical Datum of 1929, 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 800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jun. 12	2000	* 830	* 3.80	No other peaks greater than base discharge.			
Minimum discharge, 4.7 ft ³ /s, September 10, 11.							

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	12	46	e15	e35	e80	178	147	88	60	20	7.2
2	8.9	13	38	e15	e40	e74	175	141	61	52	18	6.7
3	8.5	14	30	e14	e38	161	137	154	51	47	17	6.4
4	8.0	17	26	e14	e35	302	119	119	45	43	17	6.2
5	7.9	17	25	e15	e32	158	100	99	45	52	16	5.7
6	7.8	23	25	e15	e30	128	88	85	70	61	15	5.3
7	7.6	23	22	e16	e29	105	76	76	64	53	16	5.4
8	8.5	19	20	e16	e28	92	72	69	49	48	16	5.7
9	8.2	17	19	e17	e26	104	75	63	44	170	15	5.6
10	7.5	15	18	e17	e26	381	82	62	39	88	13	5.0
11	7.8	15	18	e19	e120	200	73	56	37	58	12	6.2
12	7.5	15	18	e19	e105	139	66	53	360	47	11	20
13	7.7	15	18	e20	e78	114	68	109	345	40	10	15
14	7.8	14	20	e18	e66	105	472	455	154	36	11	11
15	8.9	14	22	e19	e54	90	349	296	143	33	8.8	13
16	9.9	16	31	e18	e49	85	256	216	240	30	8.3	19
17	10	16	31	e18	e46	74	181	262	151	29	8.9	17
18	9.4	15	24	e18	e45	72	144	217	116	28	9.0	14
19	9.1	14	22	e17	e43	69	119	190	89	27	7.4	11
20	8.6	14	e21	e18	e40	70	98	154	72	24	7.9	8.8
21	8.8	19	e20	e19	e55	72	83	135	59	23	8.1	9.3
22	10	18	e18	e18	e86	66	77	119	61	21	8.5	13
23	11	17	e17	e17	e76	59	86	99	101	21	12	60
24	11	15	e18	e22	e67	58	90	85	118	26	13	24
25	11	15	e19	e46	e62	54	80	76	84	22	10	17
26	11	15	e18	e42	e74	50	111	67	81	20	9.1	14
27	11	15	e18	e37	e120	71	92	62	146	20	8.0	19
28	11	14	e16	e39	e100	148	85	55	176	20	7.3	244
29	10	16	e16	e45	---	157	170	49	103	21	7.5	71
30	11	20	e16	e47	---	186	172	51	72	22	8.9	42
31	9.7	---	e15	e31	---	188	---	61	---	23	8.4	---
TOTAL	284.6	482	685	701	1605	3712	3974	3882	3264	1265	358.1	707.5
MEAN	9.18	16.1	22.1	22.6	57.3	120	132	125	109	40.8	11.6	23.6
MAX	11	23	46	47	120	381	472	455	360	170	20	244
MIN	7.5	12	15	14	26	50	66	49	37	20	7.3	5.0
CFSM	0.12	0.21	0.29	0.29	0.74	1.55	1.72	1.62	1.41	0.53	0.15	0.31
IN.	0.14	0.23	0.33	0.34	0.77	1.79	1.91	1.87	1.57	0.61	0.17	0.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	77.4	99.1	107	106	93.1	170	256	121	61.2	44.6	37.9	36.3	
MAX	247	238	300	259	251	299	485	349	151	182	139	92.0	
(WY)	1991	1991	1997	1996	2000	1999	2001	1996	1996	1998	1990	1998	
MIN	9.18	16.1	22.1	22.6	32.8	47.3	77.1	40.4	15.7	9.98	7.44	10.5	
(WY)	2002	2002	2002	2002	1993	2001	1995	2001	1995	1999	1999	2001	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1990 - 2002

ANNUAL TOTAL	23979.3	20920.2	
ANNUAL MEAN	65.7	57.3	
HIGHEST ANNUAL MEAN			99.3
LOWEST ANNUAL MEAN			152
HIGHEST DAILY MEAN	e 2250	Apr 13	1996
LOWEST DAILY MEAN	a 6.8	Sep 18	1995
ANNUAL SEVEN-DAY MINIMUM	7.1	Sep 14	2500
MAXIMUM PEAK FLOW		830	2500
MAXIMUM PEAK STAGE		3.80	2500
INSTANTANEOUS LOW FLOW		d 4.7	3380
ANNUAL RUNOFF (CFSM)	0.85	0.74	6.20
ANNUAL RUNOFF (INCHES)	11.55	10.08	4.0
10 PERCENT EXCEEDS	67	143	211
50 PERCENT EXCEEDS	26	27	54
90 PERCENT EXCEEDS	9.1	8.9	15

- a Also occurred on September 19, 2001.
- b From rating curve extended above 550 ft³/s.
- c Ice Jam.
- d Also occurred on September 11.
- e Estimated.
- f Also occurred on September 4, 5, 1999.

04282795 LAPLATTE RIVER AT SHELBURNE FALLS, VT

LOCATION.--Lat 44°22'12", long 73°13'00", Chittenden County, Hydrologic Unit 02010003, on left bank, 150 ft upstream of small right bank tributary, 300 ft upstream of Falls Road bridge, 500 ft southwest of Falls Road and Thomas Road intersection in Shelburne Falls, 0.8 mi southeast of Town Hall in Shelburne, 3.4 mi above mouth.

DRAINAGE AREA.--44.6 mi².

PERIOD OF RECORD.--Discharge records: March 1990 to current year.

GAGE.--Nonrecording gage at site 100 ft downstream, March to October 23, 1990. Water-stage recorder, October 24, 1990 to current year. Elevation of gage is 150 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 598 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 14	0945	* 448	* 3.57	No other peaks greater than base discharge.			
Minimum discharge, 0.72 ft ³ /s, September 8.							

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	2.5	8.3	e3.9	e19	e22	109	56	34	20	5.7	2.3
2	3.0	2.7	7.7	e3.9	e30	e20	101	68	21	15	5.3	1.7
3	2.8	3.1	6.2	e4.0	e26	e32	75	92	15	13	4.7	1.7
4	2.3	3.3	5.5	e3.9	e22	e9	60	56	13	13	4.1	1.4
5	2.7	5.2	5.4	e4.1	e19	e41	47	38	12	16	3.6	1.1
6	3.1	5.9	5.2	e4.4	e17	e34	38	29	14	26	3.8	1.2
7	2.9	6.2	5.0	e4.6	e15	e29	31	23	13	20	3.6	1.2
8	2.6	4.6	4.8	e4.7	e14	e25	26	20	11	17	3.6	0.89
9	2.7	4.2	4.7	e4.7	e13	e30	27	18	9.4	250	3.5	1.1
10	2.6	3.9	4.5	e4.8	e12	92	28	16	8.5	79	3.1	1.0
11	2.4	4.0	4.5	e5.0	e18	71	23	14	11	28	2.5	3.1
12	2.4	4.2	4.4	e5.1	e27	49	20	12	150	20	2.2	6.5
13	2.5	4.5	5.2	e5.0	e21	38	21	78	194	15	2.2	5.4
14	2.2	4.1	5.8	e5.0	e14	34	239	383	67	12	2.2	3.7
15	2.8	3.8	7.0	e5.1	e12	28	191	236	68	11	1.9	8.6
16	2.9	3.9	e5.8	e5.2	e13	26	125	113	174	9.9	2.2	13
17	2.6	3.8	e5.4	e4.9	e21	23	74	128	84	9.1	2.3	8.7
18	2.7	3.9	e5.0	e4.6	e18	22	54	101	55	8.5	1.8	6.2
19	2.6	3.8	e4.7	e4.4	e16	22	41	75	35	7.9	1.7	4.9
20	2.4	3.7	e4.5	e4.1	e15	29	32	54	24	7.1	1.9	4.2
21	2.6	3.5	e4.3	e4.6	e17	38	26	43	18	6.1	1.7	4.4
22	3.7	3.4	e4.1	e4.8	e34	36	23	36	26	5.7	2.7	9.2
23	3.1	3.4	e4.1	e5.1	e29	26	27	28	47	5.8	3.1	114
24	2.9	3.3	e4.2	e7.5	e24	24	27	23	37	5.0	2.6	42
25	2.8	3.5	e4.4	e12	e20	23	23	21	25	4.7	2.5	17
26	2.6	3.7	e4.7	e11	e18	20	37	19	25	4.4	2.2	10
27	2.4	3.7	e4.6	e10	e31	32	28	17	81	4.7	1.8	16
28	2.4	3.9	e4.4	e11	e26	106	26	14	208	4.7	1.4	361
29	2.7	4.5	e4.2	e12	---	179	126	13	58	5.0	1.6	153
30	2.5	6.8	e4.1	e12	---	169	93	14	28	7.1	2.1	47
31	2.2	---	e4.0	e10	---	132	---	19	---	7.9	2.3	---
TOTAL	83.5	121.0	156.7	191.4	561	1521	1798	1857	1565.9	658.6	85.9	851.49
MEAN	2.69	4.03	5.05	6.17	20.0	49.1	59.9	59.9	52.2	21.2	2.77	28.4
MAX	3.7	6.8	8.3	12	34	179	239	383	208	250	5.7	361
MIN	2.2	2.5	4.0	3.9	12	20	20	12	8.5	4.4	1.4	0.89
CFSM	0.06	0.09	0.11	0.14	0.45	1.10	1.34	1.34	1.17	0.48	0.06	0.64
IN.	0.07	0.10	0.13	0.16	0.47	1.27	1.50	1.55	1.31	0.55	0.07	0.71

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	32.0	49.2	44.8	46.9	34.0	71.1	129	55.2	25.6	22.7	19.1	13.8	
MAX	113	135	150	159	106	122	295	181	79.4	146	99.7	60.4	
(WY)	1991	1991	1997	1996	2000	1999	2001	1996	1996	1998	1990	1998	
MIN	2.69	4.03	5.05	6.17	8.61	26.7	28.8	15.0	4.86	1.69	1.58	2.62	
(WY)	2002	2002	2002	2002	1993	2001	1995	1998	1999	1995	2001	1995	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1990 - 2002

ANNUAL TOTAL	12218.56	9451.49	
ANNUAL MEAN	33.5	25.9	
HIGHEST ANNUAL MEAN			44.6
LOWEST ANNUAL MEAN			70.7
HIGHEST DAILY MEAN	1130	Apr 9	1410
LOWEST DAILY MEAN	0.57	Aug 15	21.8
ANNUAL SEVEN-DAY MINIMUM	0.76	Aug 3	0.23
MAXIMUM PEAK FLOW			0.33
MAXIMUM PEAK STAGE			a 2640
INSTANTANEOUS LOW FLOW			b 9.50
ANNUAL RUNOFF (CFSM)	0.75		c 0.18
ANNUAL RUNOFF (INCHES)	10.19		1.00
10 PERCENT EXCEEDS	44		13.59
50 PERCENT EXCEEDS	6.4		18
90 PERCENT EXCEEDS	1.8		3.2

a From rating curve extended above 750 ft³/s.
 b Ice Jam.
 c Also occurred September 4, 1995.
 e Estimated.

ST. LAWRENCE RIVER BASIN

04282815 ENGLSEBY BROOK AT BURLINGTON, VT

LOCATION.--Lat 44°27'28", long 73°13'11", Chittenden County, Hydrologic Unit 02010003, on right bank, 125 ft downstream from Vermont Railroad culvert, 0.25 mi upstream from mouth, 0.35 mi downstream from Pine Street culvert, 0.8 mi northwest from junction of US 7 and Interstate 189, 1.3 mi south of City Hall in Burlington.

DRAINAGE AREA.-- About 0.9 mi². Drainage area affected by stormwater diversions.

PERIOD OF RECORD.--Discharge records: October 1999 to current year. Water-quality records: October 1999 to September 2001.

GAGE.--Concrete control with v-notch weir, water-stage recorder, and crest-stage gage. Elevation of gage is 105 ft above National Geodetic Vertical Datum of 1929, 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 46 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jun. 26	1605	* 104	* 4.32	Sep. 15	0900	49	3.54
Jul. 8	2055	52	3.60	Sep. 22	2025	51	3.58

Minimum daily discharge, 0.0 ft³/s, Oct. 2-14,16,18-20,30,31, Aug. 3-5,7-12,15-21,24-28,31, Sep. 1-10,13,14,19,20.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.02	0.20	0.03	3.6	0.47	1.3	0.48	0.28	0.18	0.01	0.00
2	0.00	0.01	0.09	0.02	0.92	0.37	0.61	1.2	0.17	0.13	0.01	0.00
3	0.00	0.08	0.03	0.02	0.37	1.2	0.55	0.57	0.13	0.10	0.00	0.00
4	0.00	0.11	0.19	0.04	0.25	0.55	0.39	0.42	0.08	0.25	0.00	0.00
5	0.00	0.66	0.22	0.06	0.17	0.34	0.31	0.37	2.5	0.80	0.00	0.00
6	0.00	0.16	0.15	0.07	0.14	0.32	0.26	0.39	1.4	0.85	0.01	0.00
7	0.00	0.03	0.06	0.07	0.15	0.29	0.24	0.54	0.93	0.23	0.00	0.00
8	0.00	0.01	0.06	0.05	0.18	0.27	0.23	0.44	0.13	2.9	0.00	0.00
9	0.00	0.01	0.12	0.05	0.11	0.35	0.22	0.34	0.10	1.1	0.00	0.00
10	0.00	0.01	e0.07	0.23	0.29	1.3	0.16	0.26	0.07	0.47	0.00	0.00
11	0.00	0.03	0.01	0.29	0.75	0.36	0.15	0.21	2.8	0.32	0.00	0.47
12	0.00	0.03	0.01	0.19	0.18	0.29	0.13	0.41	8.9	0.21	0.00	0.08
13	0.00	0.01	0.10	0.11	0.13	0.27	1.0	4.6	1.7	0.13	0.16	0.00
14	0.00	0.02	0.13	0.06	0.09	0.29	2.5	6.6	1.7	0.09	0.01	0.00
15	0.10	0.02	0.24	0.09	0.19	0.26	1.4	2.2	3.3	0.06	0.00	3.4
16	0.00	0.21	0.09	0.16	0.63	0.27	0.46	1.1	1.4	0.05	0.00	0.36
17	0.01	0.15	0.08	0.08	0.33	0.22	0.41	1.5	1.5	0.06	0.00	0.07
18	0.00	0.05	0.15	0.07	0.17	0.36	0.43	0.80	1.3	0.07	0.00	0.01
19	0.00	0.50	0.21	0.05	0.20	0.35	0.41	0.60	0.71	0.05	0.00	0.00
20	0.00	0.19	0.35	0.03	0.52	0.64	0.33	0.49	0.40	0.03	0.00	0.00
21	0.15	0.10	0.30	0.03	3.5	0.62	0.18	0.42	0.26	0.02	0.00	0.04
22	0.04	0.50	0.12	0.04	1.4	0.33	0.33	0.36	2.6	0.01	0.39	2.7
23	0.01	0.17	0.07	0.12	0.65	0.25	0.50	0.31	1.7	0.53	0.10	1.9
24	0.01	0.28	0.16	1.1	0.49	0.23	0.30	0.26	1.3	0.09	0.00	0.13
25	e0.17	0.12	0.10	0.41	0.56	0.20	0.55	0.20	0.58	0.03	0.00	0.09
26	0.02	0.17	0.07	0.27	1.2	0.15	0.36	0.19	4.5	0.01	0.00	0.29
27	0.01	0.10	0.06	0.27	2.1	1.3	0.26	0.14	2.4	0.35	0.00	6.8
28	0.01	0.15	0.07	0.30	0.65	1.8	0.71	0.13	1.2	0.02	0.00	2.3
29	0.01	0.76	0.06	0.27	---	1.3	2.3	0.10	0.32	0.02	0.09	0.14
30	0.00	0.46	0.04	0.13	---	1.1	0.64	0.25	0.24	1.0	0.04	0.18
31	0.00	---	0.04	0.10	---	0.57	---	0.87	---	0.05	0.00	---
TOTAL	0.54	5.12	3.65	4.81	19.92	16.62	17.62	26.75	44.60	10.21	0.82	18.96
MEAN	0.017	0.17	0.12	0.16	0.71	0.54	0.59	0.86	1.49	0.33	0.026	0.63
MAX	0.17	0.76	0.35	1.1	3.6	1.8	2.5	6.6	8.9	2.9	0.39	6.8
MIN	0.00	0.01	0.01	0.02	0.09	0.15	0.13	0.10	0.07	0.01	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

	2000	2001	2002	2000	2001	2002	2000	2001	2002	2000	2001	2002
MEAN (WY)	0.23	0.29	0.37	0.19	0.89	0.63	1.91	1.07	0.71	0.28	0.20	0.33
MAX (WY)	0.60	0.39	0.70	0.31	1.59	0.74	2.99	2.13	1.49	0.48	0.36	0.63
MIN (WY)	0.017	0.17	0.12	0.095	0.35	0.54	0.59	0.21	0.22	0.018	0.026	0.13

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 2000 - 2002

ANNUAL TOTAL	154.67	169.62	
ANNUAL MEAN	0.42	0.46	0.59
HIGHEST ANNUAL MEAN			0.80
LOWEST ANNUAL MEAN			0.46
HIGHEST DAILY MEAN	11 Apr 8	8.9 Jun 12	16 May 9 2000
LOWEST DAILY MEAN	0.00 Jun 27	a 0.00 Oct 1	b 0.00 Oct 2 1999
ANNUAL SEVEN-DAY MINIMUM	0.00 Jul 15	0.00 Oct 1	c 0.00 Jan 17 2000
MAXIMUM PEAK FLOW		d 104 Jun 26	d 158 Jul 18 2000
MAXIMUM PEAK STAGE		4.32 Jun 26	4.84 Jul 18 2000
10 PERCENT EXCEEDS	0.80	1.3	1.4
50 PERCENT EXCEEDS	0.08	0.17	0.15
90 PERCENT EXCEEDS	0.00	0.00	0.00

a Also occurred on October 2-14,16,18-20,30,31, August 3-5,7-12,15-21,24-28,31, September 1-10,13,14,19,20.
 b No flow for several days in 2000, 2001, and 2002.
 c Also occurred on July 15, 2001, and October 1, 2001.
 d From rating curve extended above 10 ft³/s on basis of culvert computation at gage-height 4.84 ft.
 e Estimated.

04285500 NORTH BRANCH WINOOSKI RIVER AT WRIGHTSVILLE, VT

LOCATION.--Lat 44°17'58", long 72°34'45", Washington County, Hydrologic Unit 02010003, on right bank, 0.8 mi south of Wrightsville Dam Road and State Highway 12 intersection in Wrightsville, 0.9 mi downstream from Wrightsville Detention Reservoir, 2.6 mi north of the Vermont State Capitol Building in Montpelier, and 3.5 mi upstream from mouth.

DRAINAGE AREA.--69.2 mi².

PERIOD OF RECORD.--Discharge records: October 1933 to current year.

REVISED RECORDS.--WSP 1237: 1934-39.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 550.53 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to November 21, 1934, nonrecording gage at same site and datum. Prior to April 24, 2001, at datum 1.00 ft lower.

REMARKS.--Records fair. Discharge affected since 1935 by Wrightsville Detention Reservoir (Reservoirs in Winooski River Basin above Montpelier). Flow regulated by power plant at Wrightsville Detention Reservoir since September 1985. Occasional diurnal fluctuation at low flow caused by small mill upstream; more frequent diurnal fluctuation prior to 1968. Maximum discharge since construction of Wrightsville Detention Reservoir in 1935, 1,100 ft³/s, July 5 and October 24, 1990, gage height 4.32 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1830, 17,200 ft³/s, November 3, 1927, by computation of peak flow over dam 0.8 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 963 ft³/s, April 15, gage height, 4.27 ft; minimum daily discharge, e4.0 ft³/s, October 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e8.0	102	33	28	71	109	633	211	44	73	22	9.4
2	e5.5	117	164	28	80	99	749	230	64	64	18	9.3
3	e5.0	112	91	28	74	143	671	309	54	34	16	9.4
4	e5.0	105	33	28	71	194	457	261	28	43	13	9.5
5	e4.0	99	140	28	49	191	291	201	54	75	12	9.5
6	e4.5	95	114	28	67	154	215	178	118	117	11	9.6
7	e5.0	111	80	28	69	103	183	175	84	96	14	9.3
8	e6.5	95	68	28	58	92	177	145	66	82	15	9.7
9	e5.5	88	57	28	90	126	184	96	26	425	13	9.7
10	e6.0	81	44	28	77	660	670	89	31	265	11	9.5
11	e7.5	64	43	71	78	534	727	80	52	155	9.5	10
12	e7.0	54	41	52	78	238	602	69	642	81	8.7	10
13	e6.5	47	64	52	82	183	762	163	838	60	8.4	10
14	e5.5	41	74	32	76	177	886	736	781	31	8.6	10
15	e20	39	90	35	49	176	954	754	701	28	10	12
16	e40	40	53	41	51	179	874	590	539	29	9.1	88
17	e26	35	57	35	53	175	722	511	329	36	9.2	40
18	e23	37	61	50	76	173	827	364	218	48	8.9	28
19	e20	32	63	40	85	130	895	251	171	62	8.9	22
20	e14	29	41	34	38	93	862	194	104	35	9.0	17
21	e12	28	66	32	72	101	784	178	84	23	8.9	15
22	e109	25	43	27	104	80	460	177	101	23	9.3	14
23	138	20	29	33	99	84	185	122	130	24	11	15
24	97	16	59	71	93	80	165	103	205	48	11	15
25	116	16	52	101	83	70	145	87	180	21	10	13
26	117	17	29	101	91	69	150	79	108	17	9.4	12
27	114	19	30	81	151	83	127	74	162	17	9.1	15
28	109	18	50	80	139	91	98	63	306	18	8.9	169
29	99	18	35	80	---	92	165	49	204	17	9.0	165
30	89	20	30	79	---	131	177	57	120	19	9.2	45
31	86	---	32	80	---	254	---	68	---	31	9.5	---
TOTAL	1310.5	1620	1866	1487	2204	5064	14797	6664	6544	2097	340.6	819.9
MEAN	42.3	54.0	60.2	48.0	78.7	163	493	215	218	67.6	11.0	27.3
MAX	138	117	164	101	151	660	954	754	838	425	22	169
MIN	4.0	16	29	27	38	69	98	49	26	17	8.4	9.3
MEAN(†)	24.1	59.9	72.7	48.1	79.8	171	489	211	220	66.6	9.75	26.2
CFSM(†)	0.35	0.86	1.05	0.70	1.15	2.47	7.07	3.05	3.18	0.96	0.14	0.38
IN(†)	0.40	0.97	1.21	0.80	1.20	2.86	7.89	3.52	3.54	1.11	0.16	0.42

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

	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	106	137	113	84.4	70.8	174	455	244	91.0	50.0	48.1	52.5																																																									
MAX	437	248	318	279	348	556	714	617	396	271	278	230																																																									
(WY)	1991	1984	1974	1998	1981	1936	1994	1972	1984	1973	1995	1938																																																									
MIN	6.00	25.9	28.0	17.5	14.6	21.4	121	47.3	15.8	7.91	7.95	5.10																																																									
(WY)	1964	1954	1948	1940	1980	1940	1995	1941	1949	1953	2001	1963																																																									

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1934 - 2002
ANNUAL TOTAL	33950.2	44814.0	
ANNUAL MEAN	93.0	123	135
HIGHEST ANNUAL MEAN			226
LOWEST ANNUAL MEAN			71.4
HIGHEST DAILY MEAN	949	Apr 23	1620
LOWEST DAILY MEAN	4.0	Oct 5	0.20
ANNUAL SEVEN-DAY MINIMUM	5.1	Oct 2	2.8
MAXIMUM PEAK FLOW			a 2170
MAXIMUM PEAK STAGE		4.27	Apr 15
10 PERCENT EXCEEDS	148	257	b 6.53
50 PERCENT EXCEEDS	40	66	397
90 PERCENT EXCEEDS	7.8	9.5	61

a From rating curve extended above 1,030 ft³/s.

b Datum then in use.

e Estimated.

(†) Adjusted for change in contents in Wrightsville Detention Reservoir.

NOTE: All statistics are based on unadjusted daily and monthly mean data.

RESERVOIRS IN WINOOSKI RIVER BASIN ABOVE MONTPELIER, VT

04283500 EAST BARRE DETENTION RESERVOIR.--Lat 44°09'18", long 72°26'42", Washington County, Hydrologic Unit 0201003, at dam on Jail Branch at East Barre, 4.5 mi upstream from mouth. **DRAINAGE AREA**, 38.8 mi². **PERIOD OF RECORD**, Gage heights and contents: Monthend readings only, February 1936 (in WSP 1307), March and April 1936 (in WSP 798), May 1936 to August 1938 (in WSP 1307), September 1938 (in WSP 867), October 1938 to current year. **GAGE**, water-stage recorder. Datum of gage at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to August 30, 1960, nonrecording gage, and August 30 to September 30, 1960, water-stage recorder, at present site at datum 1,127.9 ft above National Geodetic Vertical Datum of 1929. **REMARKS**, Reservoir is formed by earthfill dam completed by U.S. Army Corps of Engineers in 1935 for flood control. Usable capacity, 525 million ft³ between elevation 1,124.9 ft (bottom of outlet opening) and 1,165.0 ft (crest of spillway). Dam has no gates; below elevation 1,165.0 ft, outflow from reservoir is dependent on capacity of outlet opening near base of dam. Outlet-opening enlargement and reservoir-construction modifications completed in November 1959. Size of opening since enlargement, height, 7 ft and average width, 3.7 ft. Figures given herein represent usable contents, determined from capacity tables furnished by U.S. Army Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,163.9 ft, present datum, March 22, 1936; minimum not determined.
EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,143.83 ft, April 14; minimum, not determined.

04285000 WRIGHTSVILLE DETENTION RESERVOIR.--Lat 44°18'38", long 72°34'31", Washington County, Hydrologic Unit 02010003, at Wrightsville Detention Reservoir Dam on North Branch Winoski River, 0.2 mi east of Wrightsville Dam Road and State Highway 12 intersection in Wrightsville, 0.3 mi downstream from Long Meadow Brook, 2.4 mi north of the State Capital Building in Montpelier, and 4.4 mi upstream from mouth. **DRAINAGE AREA**, 66.5 mi². **PERIOD OF RECORD**, Gage heights and contents: Monthend reading only, November 1935 to February 1936 (in WSP 1307), March to May 1936 (in WSP 798), June 1936 to August 1938 (in WSP 1307), September 1938 (in WSP 867), October 1938 to current year. **GAGE**, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to July 28, 1960, nonrecording gage at present site at datum 612.75 ft above National Geodetic Vertical Datum of 1929. **REMARKS**, Reservoir is formed by earthfill dam completed by U.S. Army Corps of Engineers in 1935 for flood control; modification of intake-structure works to create a recreational pool completed in June 1965. Usable capacity for recreation, 22 million ft³ between elevations 612.75 ft (bottom of outlet opening) and 620.00 ft; for flood control, 851.5 million ft³ between elevations 620.00 ft and 685.00 ft (crest of spillway). Reservoir used for storage of water for power September 1985 to current year. Usable capacity for storage of water power 774 million ft³ between elevation 631.00 ft (sill of gate) and 685.00 ft (crest of spillway). Total usable capacity 873.5 million ft³. Figures given herein represent usable contents, determined from capacity tables furnished by U.S. Army Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 676.4 ft, present datum, March 22, 1936, from graph based on gage readings; minimum observed, 613.00 ft, August 17, 1949, and August 17-19, 1950.
EXTREMES FOR CURRENT YEAR.--Maximum elevation, 657.01 ft, April 17; minimum, 615.61 ft, November 14.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Elevation (feet)	Contents (millions of cubic feet)	Change in contents	
			Millions of cubic feet	Equivalent, cubic feet per second
04283500 East Barre Detention Reservoir				
Sep. 30.		1130.69	6.4	--
Oct. 31.		1130.74	6.5	+0.1
Nov. 30.		*1131.58	7.7	+1.2
Dec. 31.		1130.45	6.1	-1.6
CAL YR 2001	--	--	--	-0.6
Jan. 31.		*1130.48	6.2	+0.1
Feb. 28.		1131.74	7.9	+1.7
Mar. 31.		1136.76	17.7	+9.8
Apr. 30.		1136.79	17.8	+0.1
May 31.		1133.41	10.4	-7.4
Jun. 30.		1131.52	7.6	-2.8
Jul. 31.		1130.62	6.4	-1.2
Aug. 31.		1130.34	6.0	-0.4
Sep. 30.		1130.29	5.9	-0.1
WTR YR 2002	--	--	--	-0.5
04285000 Wrightsville Detention Reservoir				
Sep. 30.		633.19	95.3	--
Oct. 31.		625.56	46.6	-48.7
Nov. 30.		*628.40	62.1	+15.5
Dec. 31.		633.24	95.7	+33.6
CAL YR 2001		-----		2.3
Jan. 31.		633.29	96.0	+0.3
Feb. 28.		*633.62	98.6	+2.6
Mar. 31.		636.35	120.7	+22.1
Apr. 30.		635.05	109.9	-10.8
May 31.		633.85	100.3	-9.6
Jun. 30.		634.37	104.5	+4.2
Jul. 31.		634.03	101.8	-2.7
Aug. 31.		633.60	98.4	-3.4
Sep. 30.		633.25	95.7	-2.7
WTR YR 2002		----		+0.4

* Estimated.

ST. LAWRENCE RIVER BASIN

04288500 WATERBURY RESERVOIR NEAR WATERBURY, VT

LOCATION.--Lat 44°22'54", long 72°46'13", Washington County, Hydrologic Unit 02010003, at dam on Little River, 0.3 mi east of Recreational Highway and Waterbury Dam Road intersection, 2.5 mi upstream of mouth, 2.8 mi north of US Highway 2 and State Highway 100 intersection in Waterbury.

DRAINAGE AREA.--109 mi².

PERIOD OF RECORD.--Elevation: September 1937 to current year. September 1937 to September 1938 monthend contents only, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Corps of Engineers). Prior to December 10, 1938, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by earthfill dam completed by U.S. Army Corps of Engineers during summer of 1937 for flood control and storage of water for power. Usable capacity for storage of water for power, 1.58 billion ft³ between elevations 500.0 ft and 592.0 ft, sill of taintor gate; for flood control, 1.23 billion ft³, between elevations 592.0 ft and 617.5 ft, crest of spillway; total usable capacity, 2.81 billion ft³.

Capacity table (elevation, in feet, and contents, in millions of cubic feet)

500.0	0	560.0	658.8
510.0	34.8	570.0	891.9
520.0	92.6	580.0	1,168.5
530.0	180.8	590.0	1,505.0
540.0	302.7	600.0	1,913.4
550.0	461.7		

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 613.45 ft, May 4, 1940; minimum observed, 501.30 ft, October 16, 1938, July 3, 12, and 13, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, e 571.32 ft, April 17; minimum elevation, 516.97 ft, August 5.

ELEVATION (National Geodetic Vertical Datum of 1929), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
INSTANTANEOUS OBSERVATION AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	549.90	e550.30	e552.13	550.52	549.66	550.13	552.38	e551.43	550.06	e535.41	518.68	521.45
2	550.05	e550.60	e551.33	550.12	549.92	550.67	552.03	e551.63	549.76	535.92	517.79	521.45
3	549.76	e551.03	e550.10	550.43	549.84	551.24	e553.13	e552.33	548.79	533.41	517.63	521.45
4	549.88	e550.50	e550.10	549.84	550.35	550.92	e554.15	e552.33	547.58	e532.00	517.33	521.46
5	550.00	e551.23	e550.30	550.16	550.00	550.06	e553.45	e551.93	546.19	531.73	517.38	521.42
6	550.15	e551.03	e550.50	550.50	549.48	549.95	e552.73	e551.63	545.66	532.80	518.19	521.36
7	550.42	e550.20	e550.40	550.19	549.88	549.84	e551.73	e551.03	545.04	531.83	519.83	521.29
8	550.46	e549.80	550.16	550.12	549.76	549.70	e550.63	e550.40	544.04	530.98	520.63	521.21
9	550.08	e549.80	550.71	550.10	549.72	550.31	e550.73	e550.93	542.88	534.52	519.07	521.13
10	550.43	e550.40	550.13	550.49	550.09	554.48	e553.83	e550.30	541.70	529.87	519.43	521.03
11	550.02	e551.00	549.73	550.42	550.69	553.41	e553.73	e549.90	541.97	530.88	519.72	523.33
12	550.27	e550.40	549.59	550.88	550.31	552.53	e554.55	e550.63	555.64	530.19	519.96	519.85
13	550.39	e550.10	550.20	550.76	549.76	551.52	e558.35	e552.93	555.19	530.43	520.19	519.74
14	550.07	e550.00	550.94	550.08	550.24	550.65	e566.40	e556.15	554.81	530.26	520.35	520.06
15	549.77	e550.30	550.57	549.54	549.98	550.06	e569.72	e556.15	555.37	529.59	519.27	519.32
16	550.22	e550.80	550.60	549.42	550.47	550.84	e570.82	e554.95	554.06	529.95	519.48	521.58
17	550.57	e550.73	550.24	549.76	550.92	550.98	e571.32	e558.47	551.78	529.72	519.61	520.44
18	550.52	e550.30	550.33	549.52	549.98	550.37	e570.52	e556.55	551.31	529.85	519.70	521.15
19	550.42	e550.70	550.01	549.83	549.89	550.45	e568.52	e554.55	550.42	529.37	519.80	521.57
20	550.66	e551.23	550.50	550.16	549.83	550.50	e565.70	e551.93	549.16	530.36	519.92	519.52
21	550.61	e550.30	549.96	550.50	550.03	550.40	e562.37	e551.93	548.11	529.90	519.99	519.71
22	550.40	e550.30	550.33	550.49	550.78	550.12	e558.77	e550.72	546.99	529.50	520.31	521.06
23	550.12	e550.10	550.36	550.24	550.63	550.52	e555.35	e550.63	546.27	530.23	520.74	520.53
24	e549.70	e550.10	550.22	550.43	550.56	550.56	e553.03	550.64	543.85	529.32	520.92	521.62
25	e549.70	e550.50	550.62	550.57	550.00	550.39	e552.03	550.45	542.78	525.46	521.04	520.12
26	e550.40	e550.60	550.08	550.78	550.29	550.26	e551.13	550.17	541.82	526.29	521.11	520.34
27	e550.50	e550.40	549.83	551.31	550.66	550.38	e550.53	550.88	540.10	524.73	521.14	526.40
28	e550.60	e550.10	549.73	550.90	550.54	550.02	e550.23	550.58	539.80	522.43	521.16	525.31
29	e550.30	e549.80	550.07	550.48	---	550.30	e550.93	550.42	538.91	520.96	521.23	525.67
30	e550.20	e551.23	550.38	550.44	---	551.15	e550.53	550.75	537.34	521.42	521.37	525.35
31	e550.10	---	550.23	550.18	---	551.78	---	550.31	---	520.42	521.43	---
MEAN	550.22	550.46	550.33	550.30	550.15	550.79	556.98	552.05	546.91	529.35	519.82	521.53
MAX	550.66	551.23	552.13	551.31	550.92	554.48	571.32	558.47	555.64	535.92	521.43	526.40
MIN	549.70	549.80	549.59	549.42	549.48	549.70	550.23	549.90	537.34	520.42	517.33	519.32
(†)	463.5	484.8	466.0	465.0	471.8	495.1	471.6	467.7	467.9	96.0	104.0	135.9
(‡)	+0.07	+8.22	-7.02	-0.37	+2.81	+8.70	-9.07	-1.46	-77.10	-64.20	+2.99	+12.30

CAL YR 2001 MEAN 550.45 MAX 575.99 MIN 537.56 (†) -0.54
WTR YR 2002 MEAN 544.03 MAX e571.32 MIN 517.33 (‡) -10.40

(†) Contents, in millions of cubic feet, at end of month.
(‡) Change in contents, equivalent in cubic feet per second.
e Estimated. Observations at 2400 hour provided by Green Mountain Power Company.

04292000 LAMOILLE RIVER AT JOHNSON, VT

LOCATION.--Lat 44°37'22", long 72°40'36", Lamoille County, Hydrologic Unit 02010005, on right bank, above falls, 0.8 mi south of State Highways 15 and 100C intersection in Johnson, 0.8 mi upstream from Railroad Street bridge in Johnson, 0.9 mi upstream from Gihon River, and 1.0 mi downstream of Waterman Brook.

DRAINAGE AREA.--310 mi².

PERIOD OF RECORD.--Discharge records: July to December 1910, June 1911 to December 1913 (monthly discharge only, January to March 1912, February 1913), September 1928 to current year.

REVISED RECORDS.--WSP 894: Drainage area. WSP 1114: 1933, 1934(M). WSP 1237: 1912(M), 1930, 1932(M).

GAGE.--Water-stage recorder. Elevation of gage is 506.7 ft above National Geodetic Vertical Datum of 1929, by levels. Prior to December 31, 1913, nonrecording gage at bridge 0.7 mi downstream at different datum.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 14	1200	6,770	12.11	Jun. 28	0315	6,180	11.54
Jun. 12	1915	* 10,200	* 14.71				

Minimum discharge, 44 ft³/s, October 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	180	871	e168	e350	469	2360	1260	680	578	261	78
2	131	173	591	e166	e370	428	2700	1210	584	625	175	76
3	85	209	414	e163	e410	472	2110	1610	489	594	233	81
4	48	185	305	e167	e270	988	1850	1230	495	660	220	79
5	55	242	261	e169	e220	694	1250	895	518	958	180	74
6	67	322	379	e170	278	560	944	743	990	912	205	73
7	74	236	315	e180	168	535	791	663	630	711	256	70
8	86	179	e203	e177	e215	432	773	607	486	591	209	70
9	121	190	e200	e185	e225	453	1110	591	358	3090	134	70
10	104	199	e193	e198	e230	3510	2590	538	359	1300	157	69
11	96	203	188	315	e245	1930	2020	483	625	924	131	120
12	56	203	185	433	e330	1070	2030	455	7230	e615	108	134
13	77	204	233	303	e390	784	3570	891	4680	e500	115	69
14	74	304	310	e190	e430	762	5960	3580	1640	e425	139	82
15	129	356	282	e178	272	916	4970	2450	1300	347	142	404
16	166	348	281	e218	231	877	3540	1730	1760	332	86	425
17	119	195	218	e210	234	671	2630	2410	1370	301	104	342
18	137	156	178	e222	e230	614	2200	1610	1080	2360	102	264
19	148	156	241	e185	e225	536	1570	1180	787	1300	99	251
20	144	228	234	e198	e210	487	1140	909	580	743	98	220
21	140	242	e225	e217	e250	470	873	821	500	612	95	181
22	399	191	e220	e225	e410	390	753	653	489	453	95	227
23	232	174	e245	e255	e400	383	723	572	550	390	106	231
24	164	170	182	e270	e360	421	775	501	1290	462	100	116
25	191	169	178	412	e365	384	624	462	829	385	96	92
26	300	196	e205	407	392	384	803	430	871	349	92	98
27	206	161	e200	388	597	368	693	412	2370	279	89	170
28	171	209	182	282	565	495	601	367	4060	281	86	1200
29	148	171	169	266	---	470	1070	401	1290	291	82	579
30	116	589	e167	e410	---	811	1290	e320	750	363	77	297
31	147	---	e162	e385	---	1700	---	278	---	458	79	---
TOTAL	4212	6740	8217	7712	8872	23464	54313	30262	39640	22189	4151	6242
MEAN	136	225	265	249	317	757	1810	976	1321	716	134	208
MAX	399	589	871	433	597	3510	5960	3580	7230	3090	261	1200
MIN	48	156	162	163	168	368	601	278	358	279	77	69
CFSM	0.44	0.72	0.86	0.80	1.02	2.44	5.84	3.15	4.26	2.31	0.43	0.67
IN.	0.51	0.81	0.99	0.93	1.06	2.82	6.52	3.63	4.76	2.66	0.50	0.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2002, BY WATER YEAR (WY)

MEAN	394	508	458	375	340	720	1642	801	421	276	248	254
MAX	1481	1173	1390	959	1624	2711	2868	1903	1344	1028	843	655
(WY)	1991	1991	1991	1996	1981	1936	1933	1972	1973	1973	1990	1938
MIN	84.1	140	162	93.0	114	157	556	245	123	88.5	59.1	93.6
(WY)	1964	1954	1948	1948	1934	1940	1995	1965	1988	1911	2001	1978

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1912 - 2002

ANNUAL TOTAL	146258	216014	
ANNUAL MEAN	401	592	538
HIGHEST ANNUAL MEAN			819
LOWEST ANNUAL MEAN			305
HIGHEST DAILY MEAN	6060	Apr 28	7230
LOWEST DAILY MEAN	36	Jul 28	48
ANNUAL SEVEN-DAY MINIMUM	44	Aug 11	72
MAXIMUM PEAK FLOW			10200
MAXIMUM PEAK STAGE			14.71
INSTANTANEOUS LOW FLOW			44
ANNUAL RUNOFF (CFSM)	1.29	1.91	1.74
ANNUAL RUNOFF (INCHES)	17.55	25.92	23.57
10 PERCENT EXCEEDS	644	1290	1180
50 PERCENT EXCEEDS	225	315	295
90 PERCENT EXCEEDS	54	99	133

e Estimated.

04293000 MISSISQUOI RIVER NEAR NORTH TROY, VT

LOCATION.--Lat 44°58'22", long 72°23'09", Orleans County, Hydrologic Unit 02010007, on right bank, 200 ft upstream from Big Falls, 1.5 mi downstream from Jay Branch, 1.8 mi southeast of Town Hall in North Troy, 2.2 mi upstream from State Highway 105 bridge in North Troy, and 8.8 mi west of State Highway 105 and US 5 intersection in Newport.

DRAINAGE AREA.--131 mi².

PERIOD OF RECORD.--Discharge records: August 1931 to current year.

REVISED RECORDS.--WSP 924: 1940. WSP 1114: 1933(M), 1936-39.

GAGE.--Water-stage recorder. Elevation of gage is 580 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Occasional regulation at low flow caused by small power plant upstream; greater regulation prior to 1967.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,5000 ft³/s, June 12, 2002, gage height, 14.55 ft; minimum, 9.4 ft³/s, August 28, 1949.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 14	1515	4,980	9.47	Jun. 6	1115	3,500	7.94
Apr. 18	0345	4,350	8.85	Jun. 12	1345	* 11,500	* 14.55

Minimum discharge, 22 ft³/s, September 11.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	141	805	e78	e125	e225	1340	879	1710	144	84	32
2	36	194	406	e81	e140	e210	1320	878	916	125	76	31
3	34	276	255	e78	e125	e250	1170	1410	531	113	73	29
4	33	252	196	e76	e117	e500	1030	979	315	165	64	28
5	30	209	243	e82	e110	e375	553	662	661	172	61	28
6	32	257	270	e88	e107	e270	403	528	2680	180	58	27
7	57	200	203	e92	e103	e200	323	437	653	146	64	28
8	116	159	156	e78	e100	e185	320	421	367	122	65	26
9	121	157	e134	e94	e95	e280	990	300	274	334	58	24
10	144	156	e116	e122	e95	e1950	2360	259	212	273	52	22
11	187	173	e112	e270	e150	954	1140	213	432	157	48	39
12	120	157	107	e210	e195	485	1260	189	8330	119	45	120
13	85	132	146	e155	e160	381	2830	311	2790	100	42	65
14	67	120	212	e140	e123	458	4520	1450	672	90	40	57
15	95	142	188	e125	e115	506	3180	1100	647	95	37	279
16	158	177	e110	e118	e110	632	2130	792	1250	88	37	274
17	110	157	e113	e105	e107	401	1840	1520	976	84	35	129
18	152	127	e140	e108	e105	323	2310	718	679	758	34	80
19	151	115	e132	e100	e105	271	937	477	501	254	35	60
20	157	149	e124	e102	e107	241	594	352	333	151	34	50
21	162	187	e118	e102	e160	230	391	324	248	112	33	45
22	368	140	e104	e105	e220	179	307	283	207	92	33	48
23	198	120	e80	e105	e195	200	291	232	226	230	46	165
24	137	109	e130	e150	e180	191	274	201	564	272	42	92
25	143	104	e110	e220	e188	169	240	188	256	130	37	61
26	274	136	e98	e190	e195	163	410	172	222	98	35	50
27	190	154	e95	e175	e315	181	303	158	341	92	32	121
28	199	e148	e87	e160	e280	209	259	140	515	104	32	1140
29	138	e174	e88	e142	---	215	393	128	274	130	32	296
30	124	697	e82	e132	---	581	557	163	177	149	34	149
31	108	---	e83	e108	---	1070	---	1010	---	115	35	---
TOTAL	3965	5419	5243	3891	4127	12485	33975	16874	27959	5194	1433	3595
MEAN	128	181	169	126	147	403	1132	544	932	168	46.2	120
MAX	368	697	805	270	315	1950	4520	1520	8330	758	84	1140
MIN	30	104	80	76	95	163	240	128	177	84	32	22
CFSM	0.98	1.38	1.29	0.96	1.13	3.07	8.65	4.16	7.11	1.28	0.35	0.91
IN.	1.13	1.54	1.49	1.10	1.17	3.55	9.65	4.79	7.94	1.47	0.41	1.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2002, BY WATER YEAR (WY)

MEAN	218	285	228	167	142	375	884	419	196	121	109	134
MAX	653	630	585	661	796	1225	1522	991	932	412	454	421
(WY)	1946	1960	1974	1998	1981	1936	1933	1940	2002	1997	1976	1945
MIN	51.3	97.6	60.9	53.9	34.0	57.0	265	143	43.7	32.0	19.7	31.5
(WY)	1949	1979	1956	1940	1980	1941	1995	1977	1933	1934	1934	1953

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1931 - 2002

ANNUAL TOTAL	83415	124160	
ANNUAL MEAN	228	340	273
HIGHEST ANNUAL MEAN			385
LOWEST ANNUAL MEAN			168
HIGHEST DAILY MEAN	4640	Apr 22	8330
LOWEST DAILY MEAN	a 17	Aug 15	22
ANNUAL SEVEN-DAY MINIMUM	19	Aug 10	26
MAXIMUM PEAK FLOW			11500
MAXIMUM PEAK STAGE			14.55
INSTANTANEOUS LOW FLOW		b 22	9.4
ANNUAL RUNOFF (CFSM)	1.74		2.60
ANNUAL RUNOFF (INCHES)	23.69		35.26
10 PERCENT EXCEEDS	371		772
50 PERCENT EXCEEDS	103		157
90 PERCENT EXCEEDS	31		45

a Also occurred on August 16.
b Also occurred on September 11.
e Estimated.

ST. LAWRENCE RIVER BASIN

04293500 MISSISQUOI RIVER NEAR EAST BERKSHIRE, VT

LOCATION.--Lat 44°57'36", long 72°41'49", Franklin County, Hydrologic Unit 02010007, on left bank, 0.4 mi upstream of State Highway 105 bridge, 1.9 mi north of intersection of State Highways 105 and 118 in East Berkshire, 1.9 mi upstream from Trout River, 2.6 mi southwest of Town Hall in Richford, and 3.6 mi downstream from North Branch.

DRAINAGE AREA.--479 mi².

PERIOD OF RECORD.--Discharge records: July 1911 to September 1923, October 1928 to current year. Monthly discharge only for July 1911 to July 1915, September 1916, March 1920 to July 1920, March 1921 to July 1921, published in WSP 1307. Prior to October 1977, published as "near Richford."

REVISED RECORDS.--WSP 784: Drainage area. WSP 1237: 1913-14(M), 1922(M), 1923, 1929-30. WSP 1307: 1916(M). WSP 1437: 1912.

GAGE.--Water-stage recorder. Elevation of gage is 410 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to August 1, 1915, nonrecording gage at site 0.2 mi downstream at datum 4.35 ft lower. August 1, 1915, to September 30, 1923, water-stage recorder at present site and datum. October 1, 1928, to September 30, 1929, nonrecording gage at former site at datum 4.6 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Diurnal fluctuation at low flow prior to 1934.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1830, 45,000 ft³/s during flood of November 1927, gage height, 23.1 ft, from floodmarks, from rating curve extended above 14,100 ft³/s on basis of computation of peak flow over dam at gage height 14.70 ft, slope-area measurement at gage height 12.90 ft, and study of discharge per foot of width at measuring section.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 15	1145	8,310	10.21	Jun. 13	0545	* 13,800	* 13.67

Minimum daily discharge, e55 ft³/s, September 10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	398	2610	e320	e650	e1020	3460	1930	3860	640	310	e71
2	96	486	2010	e315	e725	e840	3950	2200	3040	519	350	e68
3	91	829	1300	e325	e520	e1200	3540	3300	1950	443	399	e65
4	88	786	956	e305	e495	e2300	3410	3370	1220	407	288	e63
5	87	714	914	e315	e475	e1650	2330	2400	1300	531	236	e61
6	85	763	971	e340	e445	e1300	1600	1710	3120	631	205	e60
7	100	650	819	e375	e425	e950	1250	1360	2980	496	207	e59
8	185	528	650	e320	e475	e810	1110	1310	1240	417	203	e58
9	266	509	553	e345	e400	e970	1780	1030	891	546	183	e56
10	259	519	489	e450	e375	5130	4320	871	727	741	171	e55
11	313	587	449	e1050	e430	4420	4070	757	844	513	150	85
12	277	537	427	e1120	e830	2840	3010	676	10700	368	137	194
13	210	451	542	e850	e630	1730	4230	759	12700	298	127	176
14	168	406	702	e650	e520	1540	6880	2860	5800	257	119	139
15	205	415	691	e550	e475	1650	7800	3640	2230	263	113	398
16	310	477	e510	e485	e495	1850	6310	2530	3460	271	110	684
17	294	464	e430	e455	e455	1510	4660	3450	3280	235	101	393
18	361	400	e570	e425	e415	1260	4610	2770	2480	2730	92	227
19	405	365	e550	e410	e410	1060	3770	1620	1820	1190	87	160
20	416	554	e500	e390	e410	959	1900	1230	1290	632	83	129
21	436	613	e480	e395	e555	897	1220	1060	989	443	81	114
22	572	501	e440	e405	e990	779	980	937	807	323	79	144
23	634	425	e390	e435	e840	753	892	817	781	524	100	1230
24	449	379	e560	e595	e735	783	818	749	1320	771	96	664
25	425	348	e480	e960	e770	647	750	716	1030	515	90	327
26	616	404	e430	e835	e840	674	933	666	802	343	82	221
27	620	467	e395	e875	e1400	741	928	617	1090	291	78	347
28	617	442	e375	e850	e1220	830	796	542	1450	273	72	3310
29	495	546	e360	e735	---	870	1030	478	1220	261	68	1760
30	406	1930	e340	e650	---	1500	1310	564	836	447	e71	857
31	371	---	e330	e475	---	3040	---	1520	---	462	e72	---
TOTAL	9959	16893	21223	17005	17405	46503	83647	48439	75257	16781	4560	12175
MEAN	321	563	685	548	622	1500	2788	1563	2509	541	147	406
MAX	634	1930	2610	1120	1400	5130	7800	3640	12700	2730	399	3310
MIN	85	348	330	305	375	647	750	478	727	235	68	55
CFSM	0.67	1.18	1.43	1.15	1.30	3.13	5.82	3.26	5.24	1.13	0.31	0.85
IN.	0.77	1.31	1.65	1.32	1.35	3.61	6.50	3.76	5.84	1.30	0.35	0.95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1923, 1929 - 2002, BY WATER YEAR (WY)

	1915	1916	1917	1918	1919	1920	1921	1922	1923	1929	2000	2001	2002
MEAN	766	1023	846	652	521	1360	2983	1311	689	414	344	412	
MAX	2295	2385	2330	2284	2439	4013	4882	3187	2509	1671	1528	1365	
(WY)	1978	1984	1984	1998	1981	1936	1969	1940	2002	1974	1976	1954	
MIN	87.4	241	270	157	115	240	922	453	175	86.0	63.3	57.5	
(WY)	1949	1954	1956	1918	1980	1941	1995	1977	1999	1991	1934	1921	

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1915-1923, 1929-2002
ANNUAL TOTAL	273207	369847	
ANNUAL MEAN	748	1013	942
HIGHEST ANNUAL MEAN			1415
LOWEST ANNUAL MEAN			580
HIGHEST DAILY MEAN	10400	Apr 24	18200
LOWEST DAILY MEAN	e 69	Aug 17	28
ANNUAL SEVEN-DAY MINIMUM	74	Aug 12	39
MAXIMUM PEAK FLOW		13800	Jun 13
MAXIMUM PEAK STAGE		13.67	Jun 13
INSTANTANEOUS LOW FLOW		b	8.0
ANNUAL RUNOFF (CFSM)	1.56	2.12	1.97
ANNUAL RUNOFF (INCHES)	21.22	28.72	26.72
10 PERCENT EXCEEDS	1250	2560	2240
50 PERCENT EXCEEDS	406	553	469
90 PERCENT EXCEEDS	98	117	145

a Ice Jam.
b Minimum not determined.
e Estimated.

04294000 MISSISQUOI RIVER AT SWANTON, VT

LOCATION.--Lat 44°55'00", long 73°07'44", Franklin County, Hydrologic Unit 02010007, on left bank, at Old Railroad abutment, 0.3 mi upstream of dam and Depot Street (Route 78) bridge, 0.3 mi southwest of Post Office in Swanton, 1.1 mi west of Highway 78 and Interstate 89 interchange, and 7.9 mi upstream of mouth.

DRAINAGE AREA.--850 mi².

PERIOD OF RECORD.--Discharge records: March 1990 to current year.

GAGE.--Water-stage recorder and crest stage gage. Elevation of gage is 105 ft above National Geodetic Vertical Datum of 1929, from topographic map. July 6, 1989 to February 28, 1990, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Low flows regulated by power plants upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 10	1400	12,500	4.89	Jun. 06	0600	14,000	5.21
Apr. 14	1330	12,700	4.93	Jun. 12	2045	* 31,000	* 8.46

Minimum daily discharge, 82 ft³/s, September 10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	527	3490	e420	868	2400	5930	3230	7390	1220	541	94
2	179	661	2920	e450	e1200	1960	7160	4010	6220	764	507	99
3	176	969	1970	e510	e960	2080	6160	5810	4080	914	427	104
4	140	979	1390	e445	e830	6090	6190	6080	2410	785	439	89
5	126	1080	1150	e425	e770	4030	4640	4670	2360	1260	443	112
6	143	1170	1310	e545	e730	2600	3030	3450	10600	2360	228	102
7	179	983	1320	e510	e700	2010	2350	2650	6780	1790	427	85
8	175	772	918	e485	729	1680	2210	2540	3160	1150	461	107
9	279	690	779	e510	e670	1820	2200	2050	2020	2250	336	109
10	404	682	921	643	e610	8780	6520	1650	1500	2540	261	82
11	433	692	578	1380	e640	7740	6510	1320	1660	1730	241	93
12	506	866	586	1610	e960	5640	5200	1140	21000	1050	205	197
13	422	667	673	e1400	e890	3370	6030	1320	23100	542	215	313
14	229	530	1020	e1150	e810	2790	11500	5080	12800	617	211	258
15	316	601	1010	e930	e695	2770	11800	7800	5470	704	195	300
16	331	704	795	e770	757	3180	10300	5590	7190	500	158	1240
17	388	585	706	e710	774	2820	8150	6780	6390	521	160	902
18	446	546	650	e630	707	2350	7980	6010	5080	3990	153	393
19	486	682	763	e580	e660	1950	6740	3830	3950	3040	154	342
20	533	494	884	e590	e690	1770	4010	2670	2710	1490	150	261
21	518	847	e800	e610	e1100	1700	2520	2200	1980	811	117	194
22	718	702	e705	e630	2360	1390	1960	1930	1550	618	107	158
23	909	654	e640	e645	2110	1040	1650	1620	1480	931	124	1710
24	618	475	e638	834	1630	1490	1640	1350	2280	2000	119	1830
25	578	541	e775	1450	1550	1220	1430	1190	2060	913	156	834
26	720	558	e700	1220	1680	1060	1780	1100	1510	818	149	301
27	698	616	e630	1260	4060	1200	1740	1090	1910	360	120	606
28	802	520	e570	1280	3550	1650	1520	954	3710	490	118	6080
29	762	616	e470	e1120	---	1630	2860	789	2940	625	112	4240
30	524	1950	e475	e990	---	3040	3060	914	2000	857	139	1980
31	514	---	e537	e780	---	5470	---	6290	---	588	116	---
TOTAL	13462	22359	30773	25512	33690	88720	144770	97107	157290	38228	7289	23215
MEAN	434	745	993	823	1203	2862	4826	3132	5243	1233	235	774
MAX	909	1950	3490	1610	4060	8780	11800	7800	23100	3990	541	6080
MIN	126	475	470	420	610	1040	1430	789	1480	360	107	82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	1351	1796	1480	1522	952	2681	4899	2001	1215	919	532	605	
MAX	2507	3082	3894	4324	1670	5220	7078	3920	5243	2042	1130	1512	
(WY)	1991	1996	1997	1998	1996	2000	1993	2000	2002	1997	1990	1999	
MIN	295	745	596	429	317	676	1527	629	363	148	185	165	
(WY)	1995	2002	1993	1994	1993	2001	1995	1998	1999	1991	2001	1995	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1990 - 2002

ANNUAL TOTAL	429007	682415		
ANNUAL MEAN	1175	1870		1651
HIGHEST ANNUAL MEAN				2258
LOWEST ANNUAL MEAN				1137
HIGHEST DAILY MEAN	15300	23100	Jun 13	29500
LOWEST DAILY MEAN	115	82	Sep 10	33
ANNUAL SEVEN-DAY MINIMUM	124	98	Sep 1	70
MAXIMUM PEAK FLOW		31000	Jun 12	37700
MAXIMUM PEAK STAGE		8.46	Jun 12	9.50
10 PERCENT EXCEEDS	1920	5310		4080
50 PERCENT EXCEEDS	619	909		793
90 PERCENT EXCEEDS	179	195		220

e Estimated.

04294300 PIKE RIVER AT EAST FRANKLIN, NEAR ENOSBURG FALLS, VT--Continued

LOCATION.--Lat 45°00'10", long 72°50'08", Franklin County, Hydrologic Unit 02010007, on left bank, 200 ft downstream from unnamed left bank tributary from Lake Carmi, 0.5 mi north of Scott Road and State Highway 120 intersection in East Franklin, 1.0 mi upstream from the US and Canada Border, 1.4 mi northwest of State Highway 108 and Berkshire Road intersection in West Berkshire, 1.6 mi northeast of Lake Carmi outlet, and 6.8 mi north of Town Hall in Enosburg Falls.

DRAINAGE AREA.--34.5 mi².

PERIOD OF RECORD.--Discharge records: August 2001 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 400 ft above National Geodetic Vertical Datum of 1929, 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)
Mar. 10	1545	593	3.72	Sep. 28	1330	401	3.31
Jun. 12	1230	* 2,120	* 5.91				

Minimum discharge, 0.78 ft³/s, September 9 and 10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	7.8	90	e9.0	e22	e39	171	91	234	47	15	2.7
2	1.9	9.7	47	e9.0	e20	e33	201	118	121	42	17	2.4
3	1.6	35	28	e9.0	e18	e58	144	152	77	38	18	2.1
4	1.5	22	21	e9.0	e16	e98	118	105	57	36	14	2.2
5	1.4	22	32	e10	e15	e65	83	70	109	52	13	1.8
6	1.6	28	39	e11	e14	e45	68	60	252	79	17	1.4
7	2.1	e19	29	e12	e13	e31	59	52	86	48	19	1.3
8	6.2	e12	22	e9.0	e13	e27	55	61	61	39	15	1.2
9	7.7	13	20	e11	e12	e59	116	49	52	70	12	1.1
10	5.4	13	17	e16	e12	e350	161	43	44	58	11	1.0
11	4.5	18	16	e22	e18	192	89	35	76	39	9.6	6.0
12	3.7	14	14	e20	e29	97	68	31	1300	31	8.8	12
13	3.3	11	33	e18	e22	87	91	45	496	27	8.9	6.4
14	2.8	9.9	e23	e16	e17	94	218	223	135	24	8.1	6.2
15	7.5	11	e19	e15	e16	85	160	219	154	23	7.5	34
16	6.5	10	e17	e15	e15	104	114	106	273	21	7.4	26
17	4.8	8.4	e15	e13	e15	72	77	214	257	20	6.8	13
18	6.5	8.4	e19	e14	e14	63	126	111	176	106	6.4	8.6
19	6.4	7.6	e18	e13	e14	59	95	75	164	41	6.3	7.0
20	5.6	9.1	e16	e13	e16	56	67	64	111	28	6.8	6.1
21	5.4	10	e14	e13	e24	56	54	67	89	22	6.3	5.6
22	5.8	8.7	e12	e14	e34	49	48	56	80	18	6.2	6.6
23	9.2	7.7	e10	e15	e30	47	52	47	79	45	6.8	86
24	5.6	7.0	e15	e27	e27	44	49	41	121	36	6.4	32
25	5.7	6.9	e14	e27	e29	40	46	39	76	23	5.5	17
26	8.9	10	e13	e25	e31	37	63	42	80	19	5.2	13
27	8.0	11	e11	e24	e54	52	49	38	108	19	4.2	48
28	10	9.4	e10	e23	e45	64	49	33	97	18	3.8	311
29	7.7	23	e11	e22	---	77	113	30	71	17	3.3	75
30	6.5	115	e10	e19	---	191	107	41	56	25	3.1	36
31	5.7	---	e10	e18	---	183	---	109	---	22	3.0	---
TOTAL	161.4	497.6	665	491.0	605	2554	2911	2467	5092	1133	281.4	772.7
MEAN	5.21	16.6	21.5	15.8	21.6	82.4	97.0	79.6	170	36.5	9.08	25.8
MAX	10	115	90	27	54	350	218	223	1300	106	19	311
MIN	1.4	6.9	10	9.0	12	27	46	30	44	17	3.0	1.0
CFSM	0.15	0.48	0.62	0.46	0.63	2.39	2.81	2.31	4.92	1.06	0.26	0.75
IN.	0.17	0.54	0.72	0.53	0.65	2.75	3.14	2.66	5.49	1.22	0.30	0.83

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

	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002
MEAN	5.21	16.6	21.5	15.8	21.6	82.4	97.0	79.6	170	36.5	9.08	14.8
MAX	5.21	16.6	21.5	15.8	21.6	82.4	97.0	79.6	170	36.5	9.08	25.8
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002
MIN	5.21	16.6	21.5	15.8	21.6	82.4	97.0	79.6	170	36.5	9.08	3.90
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2001

SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 2001 - 2002

ANNUAL TOTAL	17631.1											
ANNUAL MEAN	48.3									48.3		
HIGHEST ANNUAL MEAN										48.3		2002
LOWEST ANNUAL MEAN										48.3		2002
HIGHEST DAILY MEAN	1300	Jun 12							1300	Jun 12	2002	
LOWEST DAILY MEAN	1.0	Sep 10							0.52	Aug 16	2001	
ANNUAL SEVEN-DAY MINIMUM	1.4	Sep 4							0.69	Aug 13	2001	
MAXIMUM PEAK FLOW	2120	Jun 12							2120	Jun 12	2002	
MAXIMUM PEAK STAGE	5.91	Jun 12							5.91	Jun 12	2002	
INSTANTANEOUS LOW FLOW	a 0.78	Sep 9							0.42	Aug 16	2001	
ANNUAL RUNOFF (CFSM)	1.40								1.40			
ANNUAL RUNOFF (INCHES)	19.01								19.02			
10 PERCENT EXCEEDS	110								110			
50 PERCENT EXCEEDS	22								22			
90 PERCENT EXCEEDS	5.8								5.8			

a Also occurred September 10.
e Estimated.

04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, NY

LOCATION.--Lat 44°59'46", long 73°21'37", Clinton County, Hydrologic Unit 02010006, on left bank at outlet of Lake Champlain in Rouses Point, and 1.0 mi south of Fort Montgomery ruins.

DRAINAGE AREA.--8,277 mi².

PERIOD OF RECORD.--October 1863 to December 1870 (maximum and minimum monthly gage heights at St. Johns, Quebec, published in WSP 97), and March 1871 to current year (daily gage heights prior to October 1970, elevations thereafter: those for 1871-1907 published in WSP 894). Gage heights prior to October 1, 1925, published as "Richelieu River at Fort Montgomery, Rouses Point." Discharge records for January 1875 to September 1916, at "Chambly, Quebec," published in WSP 65, 82, 97, 129, 170, 206, 424, and 1307 have been found to be unreliable and should not be used. Daily discharge record for "Richelieu River at Fryers Rapids, Quebec," published in Water Survey of Canada annual reports.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. March 1871 to May 1923, nonrecording gage located in Fort Montgomery and May 1923 to October 1938, nonrecording gage at present site. Prior to October 1970, at datum 93.00 ft higher.

REMARKS.--Area of lake surface about 490 mi². Total volume below 92.5 ft elevation, reported by Lake Champlain Studies Center, 902.2 billion ft³. Telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 101.88 ft, April 25, 1993; minimum observed, 92.17 ft, October 23, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known since at least 1827, 102.1 ft, May 4, 1869, from marks at railroad bridge near present gage, according to data published on p. 428 of the Report of the Board of Engineers on Deep Waterways, 1900: U.S. 56th Congress, 2d session H. Doc. 149.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 98.87 ft, June 17; minimum, 93.29 ft, November 20.

**ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94.18	93.86	93.74	93.79	94.06	94.80	96.10	98.00	97.78	98.32	96.51	95.16
2	94.17	93.74	93.77	93.82	93.96	94.86	96.28	98.07	97.70	98.25	96.53	95.04
3	94.23	93.65	93.90	93.78	94.08	94.89	96.42	98.04	97.71	98.15	96.42	95.04
4	94.18	93.69	93.83	93.78	94.01	94.88	96.48	98.10	97.74	98.06	96.35	94.87
5	94.05	93.55	93.88	93.78	94.07	95.03	96.56	98.12	97.72	97.88	96.25	94.76
6	94.10	93.63	93.97	93.77	94.09	95.06	96.54	98.14	97.64	97.88	96.08	94.77
7	94.02	93.62	93.83	93.64	94.12	95.08	96.63	98.05	97.67	97.87	96.05	94.80
8	93.95	93.88	93.84	93.81	94.05	95.14	96.71	97.96	97.73	97.86	96.03	94.79
9	94.06	93.61	93.86	93.86	94.08	95.22	96.69	98.29	97.57	97.86	96.04	94.72
10	94.05	93.73	94.01	93.75	94.18	95.21	96.60	97.88	97.53	97.75	96.02	94.70
11	94.05	93.61	93.84	93.74	94.00	95.34	96.77	97.72	97.47	97.70	95.95	94.54
12	93.89	93.64	93.94	93.76	94.31	95.55	97.05	97.72	97.70	97.70	95.89	94.61
13	93.92	93.75	94.01	93.77	94.14	95.61	96.81	97.69	98.16	97.65	95.87	94.70
14	94.23	93.76	93.76	93.73	94.30	95.52	97.08	97.85	98.45	97.57	95.86	94.67
15	93.92	93.71	93.76	93.76	94.30	95.57	97.47	98.00	98.58	97.44	95.81	94.64
16	93.91	93.57	93.86	93.75	94.24	95.57	97.77	98.23	98.74	97.34	95.78	94.65
17	93.96	93.65	93.97	93.81	94.21	95.65	97.92	98.18	98.80	97.32	95.70	94.69
18	93.80	93.76	93.84	93.78	94.26	95.77	98.06	98.29	98.80	97.20	95.69	94.66
19	93.99	93.82	93.90	93.80	94.28	95.70	98.15	98.32	98.77	97.17	95.56	94.74
20	93.81	93.58	93.92	93.80	94.30	95.87	98.07	98.33	98.74	97.10	95.49	94.80
21	93.84	93.70	93.82	93.82	94.33	95.75	98.09	98.30	98.68	97.11	95.47	94.71
22	93.74	93.63	93.88	93.74	94.38	95.65	98.11	98.29	98.59	97.16	95.50	94.65
23	94.05	93.66	94.02	93.83	94.44	95.76	98.10	98.25	98.56	96.96	95.36	94.66
24	93.76	93.75	93.92	93.71	94.51	95.62	98.08	98.11	98.46	96.89	95.43	94.69
25	93.82	93.87	93.96	93.80	94.57	95.61	98.20	98.06	98.46	96.85	95.33	94.68
26	93.88	93.57	93.90	93.84	94.59	95.64	97.96	98.09	98.44	96.97	95.29	94.74
27	93.68	93.54	93.91	93.80	94.64	95.69	97.92	97.91	98.43	96.83	95.11	94.71
28	93.69	93.49	93.97	93.83	94.71	95.73	97.88	97.84	98.40	96.81	95.11	94.78
29	93.79	93.84	93.90	93.80	---	95.82	97.88	97.83	98.41	96.63	95.18	94.92
30	93.61	93.63	93.90	93.83	---	95.99	98.04	97.74	98.38	96.58	95.11	95.09
31	93.82	---	93.86	93.85	---	95.95	---	97.79	---	96.54	95.08	---
MEAN	93.94	93.68	93.89	93.78	94.26	95.47	97.35	98.04	98.19	97.40	95.74	94.77
MAX	94.23	93.88	94.02	93.86	94.71	95.99	98.20	98.33	98.80	98.32	96.53	95.16
MIN	93.61	93.49	93.74	93.64	93.96	94.80	96.10	97.69	97.47	96.54	95.08	94.54
CAL YR 2001	MEAN	95.63	MAX	100.87	MIN	93.49						
WTR YR 2002	MEAN	95.55	MAX	98.80	MIN	93.49						

ST. LAWRENCE RIVER BASIN

04295500 LAKE MEMPHREMAGOG AT NEWPORT, VT

LOCATION.--Lat 44°56'15", long 72°12'21", Orleans County, Hydrologic Unit 01110000, 20 ft west of Canadian Pacific Railroad bridge, 200 ft west of US 5 Bridge, 0.3 mi south of US 5 and State Highway 191 intersection, and 0.3 mi northeast of Police Station in Newport.

PERIOD OF RECORD.--Gage heights: May 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 673.00 ft above National Geodetic Vertical Datum of 1929. Prior to July 21, 1934, nonrecording gage on Mount Vernon Street bridge, 0.1 mi southeast at same datum. July 21, 1934 to August 22, 1961, nonrecording gage on east side of US 5 bridge, and August 23, 1961 to October 18, 1966, on west side of US 5 bridge at same datum.

REMARKS.--Elevation of lake regulated by power plant and gates at Magog, Quebec.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 12.92 ft, April 20, 1933; minimum recorded, 6.48 ft, November 2, 1968, affected by seiche; but may have been lower during period of use of nonrecording gage.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.09 ft, April 18-20, affected by seiche; minimum gage height, 7.32 ft, February 20, 21, affected by seiche.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.51	7.51	8.09	8.83	8.08	7.54	9.23	9.93	9.57	9.45	9.01	7.95
3	7.49	7.57	8.21	8.87	8.03	7.63	9.42	10.09	9.61	9.31	9.00	7.92
4	7.48	7.59	8.29	8.82	8.02	7.70	9.58	10.20	9.57	9.28	8.96	7.90
5	7.47	7.59	8.34	e8.77	7.96	7.74	9.70	10.16	9.57	9.34	8.94	7.90
6	7.45	7.60	8.38	e8.75	7.90	7.78	9.73	10.10	9.70	9.34	8.93	7.84
7	7.45	7.60	8.40	e8.72	7.84	7.81	9.70	10.05	9.74	9.30	8.88	7.78
8	7.46	7.60	8.41	e8.68	7.78	7.81	9.65	10.00	9.73	9.27	8.82	7.76
9	7.41	7.60	8.48	e8.65	7.71	7.87	9.64	9.82	9.75	9.28	8.76	7.73
10	7.40	7.60	8.47	e8.66	7.66	8.13	9.74	9.77	9.67	9.32	8.72	7.71
11	7.40	7.73	8.49	e8.67	7.63	8.35	e9.82	9.77	9.64	9.27	8.69	7.82
12	7.40	7.73	8.50	e8.68	7.59	8.56	e9.90	9.71	10.10	9.22	8.65	7.79
13	7.40	7.71	8.51	e8.68	7.50	8.70	10.03	9.70	10.78	9.18	8.62	7.68
14	7.39	7.71	8.59	e8.65	7.47	8.81	10.28	9.76	10.98	9.15	8.58	7.68
15	7.40	7.72	8.68	8.64	7.43	8.94	10.65	9.86	11.00	9.14	8.56	7.74
16	7.40	7.77	8.67	8.63	7.41	9.04	10.88	9.83	10.99	9.11	8.52	7.79
17	7.40	7.77	8.66	8.62	7.40	9.12	10.97	9.90	10.93	9.04	8.50	7.77
18	7.40	7.74	8.70	8.57	7.36	9.18	11.06	9.90	10.82	9.11	8.45	7.76
19	7.39	7.74	8.71	8.51	7.35	9.22	11.03	9.88	10.67	9.13	8.44	7.74
20	7.39	7.78	8.71	8.44	7.33	9.24	11.01	9.82	10.49	9.13	8.41	7.70
21	7.39	7.78	8.77	8.40	7.33	9.29	10.88	9.75	10.35	9.11	8.36	7.69
22	7.42	7.77	8.78	8.34	7.34	9.30	10.66	9.66	10.22	9.07	8.32	7.72
23	7.41	7.78	8.76	8.30	7.35	9.29	10.49	9.55	10.05	9.14	8.34	7.74
24	7.42	7.76	8.78	8.28	7.36	9.31	10.28	9.47	10.01	9.15	8.28	7.74
25	7.45	7.74	8.78	8.25	7.37	9.29	10.07	9.45	9.81	9.14	8.25	7.72
26	7.47	7.80	8.80	8.23	7.44	9.28	10.08	9.40	9.68	9.08	8.21	7.70
27	7.49	7.80	8.80	8.22	7.53	9.25	10.02	9.40	9.54	9.07	8.21	7.72
28	7.52	7.80	8.80	8.18	7.54	9.22	9.95	9.37	9.49	9.04	8.15	7.96
29	7.50	7.83	8.80	8.15	---	9.22	9.97	9.32	9.50	9.03	8.10	7.98
30	7.54	7.98	8.80	8.11	---	9.22	9.91	9.35	9.48	9.06	8.08	8.00
31	7.51	---	8.80	8.08	---	9.22	---	9.43	---	9.04	8.05	---
MEAN	7.44	7.71	8.59	8.52	7.60	8.66	10.12	9.75	10.04	9.18	8.54	7.80
MAX	7.54	7.98	8.80	8.87	8.08	9.31	11.06	10.20	11.00	9.45	9.01	8.00
MIN	7.39	7.51	8.09	8.08	7.33	7.54	9.23	9.32	9.48	9.03	8.05	7.68

CAL YR 2001 MEAN 8.29 MAX 11.11 MIN 6.71
WTR YR 2002 MEAN 8.67 MAX 11.06 MIN 7.33

e Estimated.

ST. LAWRENCE RIVER BASIN

04296500 CLYDE RIVER AT NEWPORT, VT

LOCATION.--Lat 44°56'25", long 72°11'23", Orleans County, Hydrologic Unit 01110000, on right bank, 100 ft upstream of small right-bank tributary, 600 ft upstream of Clyde Street bridge, 0.8 mi east of US 5 and Main Street intersection in Newport, 0.9 mi downstream of Clyde Pond Dam, and 0.9 mi upstream of mouth.

DRAINAGE AREA.--142 mi².

PERIOD OF RECORD.--Discharge records: May 1909 to December 1911, April 1912 to September 1919; May 1920 to August 1922, October 1922 to September 1924, November 1928 to May 1936, September 1938 to current year. Prior to November 1928, published as "at West Derby."

PERIOD OF DAILY WATER-QUALITY RECORD.--Water years 1975 to 1978.

SPECIFIC CONDUCTANCE: October 1974 to October 1977.

WATER TEMPERATURE: October 1974 to October 1977.

REVISED RECORDS.--WSP 744: 1913(M), drainage area. WSP 924: 1940. WSP 1307: 1913-15(M).

GAGE.--Water-stage recorder. Datum of gage is 682.36 ft above National Geodetic Vertical Datum of 1929. May 25, 1909 to September 20, 1915, nonrecording gage, and September 21, 1915 to September 30, 1924, November 16, 1928 to May 4, 1936, water-stage recorder, at site 0.65 mi upstream at different datum. March 6, 1957 to May 11, 1994, water-stage recorder and records of power generation. No instantaneous peak stage available for period of March 6, 1957 to May 11, 1994, due to diversion of flow around station through canal and penstock of Newport No. 11 power plant.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by power plant and reservoirs upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,900 ft³/s, March 20, 1936, gage height, 5.76 ft, site and datum then in use; maximum daily, 3,610 ft³/s, March 20, 1936; minimum daily discharge, 2.6 ft³/s, June 18, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,970 ft³/s, June 14, gage height, 7.54 ft; minimum daily discharge, 31 ft³/s, September 10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	100	168	96	121	195	401	592	309	417	100	47
2	78	100	180	96	121	194	408	612	406	336	99	47
3	74	100	180	82	121	197	576	631	437	390	99	47
4	74	100	181	73	105	196	640	630	559	409	122	47
5	74	101	181	73	95	232	633	613	626	262	92	48
6	75	100	181	73	95	361	599	590	776	183	84	88
7	75	100	181	73	95	335	559	562	750	183	78	42
8	59	100	181	73	95	293	516	535	732	156	77	42
9	48	100	180	73	95	269	500	502	700	144	77	35
10	48	100	141	87	95	336	554	464	639	144	77	31
11	48	109	123	95	e95	460	584	430	618	144	77	35
12	48	145	123	95	e95	574	632	410	1370	144	77	34
13	48	144	123	95	e58	586	750	407	1720	144	58	33
14	48	144	123	95	e58	601	1080	408	1930	143	48	33
15	50	125	123	95	58	598	1570	430	1690	126	47	36
16	49	110	123	111	82	573	1840	511	1360	88	47	69
17	49	101	105	126	92	525	1790	591	1100	88	47	66
18	49	101	95	126	92	478	1790	637	944	124	47	56
19	65	92	95	125	93	441	1680	644	838	142	47	56
20	82	86	95	125	94	415	1510	633	749	117	47	56
21	83	86	147	105	98	409	1250	602	672	132	47	56
22	83	86	151	94	152	401	1030	558	608	138	47	71
23	82	86	151	94	107	386	869	504	566	140	47	91
24	82	86	151	95	108	376	756	443	546	138	47	94
25	68	86	137	95	107	304	672	410	522	138	47	94
26	61	86	123	95	108	268	630	400	503	136	47	94
27	100	86	114	95	190	268	588	366	488	105	47	98
28	100	86	100	121	195	269	563	289	482	100	47	106
29	100	87	96	140	---	270	564	248	466	96	47	146
30	100	95	96	127	---	275	571	210	441	99	47	181
31	100	---	96	121	---	324	---	186	---	100	47	---
TOTAL	2172	3028	4244	3069	2920	11409	26105	15048	23547	5206	1964	1979
MEAN	70.1	101	137	99.0	104	368	870	485	785	168	63.4	66.0
MAX	100	145	181	140	195	601	1840	644	1930	417	122	181
MIN	48	86	95	73	58	194	401	186	309	88	47	31
CFSM	.49	.71	.96	.70	.73	2.59	6.13	3.42	5.53	1.18	.45	.46
IN.	.57	.79	1.11	.80	.76	2.99	6.84	3.94	6.17	1.36	.51	.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909-24, 28-36, 38-02, BY WATER YEAR (WY)

	1909-24	28-36	38-02	1909-24	28-36	38-02	1909-24	28-36	38-02	1909-24	28-36	38-02
MEAN	178	232	224	185	158	281	696	494	244	149	127	129
MAX	576	560	599	452	477	1136	1192	1042	785	464	369	523
(WY)	1946	1919	1984	1998	1981	1936	1933	1972	2002	1973	1976	1924
MIN	50.7	79.5	80.4	62.9	19.1	72.8	186	151	74.0	47.2	39.6	41.9
(WY)	1962	1923	1923	1948	1979	1911	1979	1998	1988	1991	1909	1984

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1909-24, 28-36, 38-02

ANNUAL TOTAL	73228	100691											
ANNUAL MEAN	201	276								257			
HIGHEST ANNUAL MEAN										394		1974	
LOWEST ANNUAL MEAN										153		1979	
HIGHEST DAILY MEAN	2290	Apr 26				1930	Jun 14			3610	Mar 20	1936	
LOWEST DAILY MEAN	40	Aug 25				31	Sep 10			2.6	Jun 18	1956	
ANNUAL SEVEN-DAY MINIMUM	41	Aug 20				34	Sep 9			14	Oct 9	1961	
MAXIMUM PEAK FLOW						1970	Jun 14		ab	3900	Mar 20	1936	
MAXIMUM PEAK STAGE						7.54	Jun 14			ab	5.76	Mar 20	1936
ANNUAL RUNOFF (CFSM)	1.41					1.94				1.81			
ANNUAL RUNOFF (INCHES)	19.18					26.38				24.56			
10 PERCENT EXCEEDS	380					630				525			
50 PERCENT EXCEEDS	106					122				180			
90 PERCENT EXCEEDS	48					48				62			

- a No instantaneous peak stage or discharge available for period of March 6, 1957 to May 11, 1994, as explained above in remarks.
- b Site and datum then in use.
- e Estimated.