

## 01129200 CONNECTICUT RIVER BELOW INDIAN STREAM, NEAR PITTSBURG, NH

LOCATION.--Lat 45°02'25", long 71°26'40", 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 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR MA-NH-RI-VT-73-I: 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 ft<sup>3</sup>/s, May 11, 2000, gage height, 8.37 ft; minimum daily 30 ft<sup>3</sup>/s, August 6, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,400 ft<sup>3</sup>/s, Apr. 29, gage height, 5.20 ft; minimum daily discharge, 138 ft<sup>3</sup>/s, Sept. 5.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	317	216	441	443	543	647	413	1,790	917	787	510	637
2	315	254	564	486	537	647	488	1,440	711	474	514	240
3	313	359	431	544	531	641	826	1,230	612	465	532	171
4	313	339	377	594	527	503	1,630	977	542	455	481	148
5	313	349	346	627	527	426	1,280	749	490	455	429	138
6	313	381	275	597	524	426	984	672	451	438	423	160
7	313	517	306	596	521	375	1,200	617	413	245	419	215
8	313	498	314	591	524	275	1,860	604	387	233	414	213
9	312	391	305	587	527	e275	1,260	592	375	312	290	216
10	313	320	299	582	531	279	953	575	390	442	226	211
11	313	302	296	576	533	e279	891	559	406	1,080	240	208
12	305	284	296	568	533	279	674	523	376	473	229	205
13	309	259	287	571	533	279	551	425	364	532	225	260
14	308	249	276	841	528	279	527	402	478	499	224	311
15	313	243	e260	1,100	527	279	549	420	1,260	449	263	323
16	334	243	e252	870	527	278	617	446	1,110	400	314	326
17	359	241	257	755	533	232	835	450	1,270	386	311	324
18	354	238	e252	658	636	e199	1,120	428	1,630	380	308	369
19	338	265	252	616	692	199	955	417	1,360	430	305	382
20	327	303	e252	618	690	199	1,160	404	955	499	304	354
21	322	281	e252	605	680	199	1,540	394	624	529	309	339
22	318	280	e250	589	677	200	773	393	586	523	307	329
23	313	272	266	581	673	202	769	402	544	521	304	330
24	312	265	702	576	668	203	999	417	507	513	307	333
25	309	437	594	569	666	203	1,190	404	475	510	303	327
26	309	927	381	567	660	205	1,420	402	455	510	301	345
27	234	474	e340	565	654	205	1,850	459	437	556	299	459
28	197	408	e300	560	653	211	1,590	483	401	612	299	410
29	195	721	290	556	---	223	2,120	483	438	547	304	375
30	194	503	316	551	---	251	1,930	587	1,150	525	307	461
31	206	---	395	549	---	322	---	938	---	513	409	---
TOTAL	9,304	10,819	10,424	19,088	16,355	9,420	32,954	19,082	20,114	15,293	10,410	9,119
MEAN	300	361	336	616	584	304	1,098	616	670	493	336	304
MAX	359	927	702	1,100	692	647	2,120	1,790	1,630	1,080	532	637
MIN	194	216	250	443	521	199	413	393	364	233	224	138

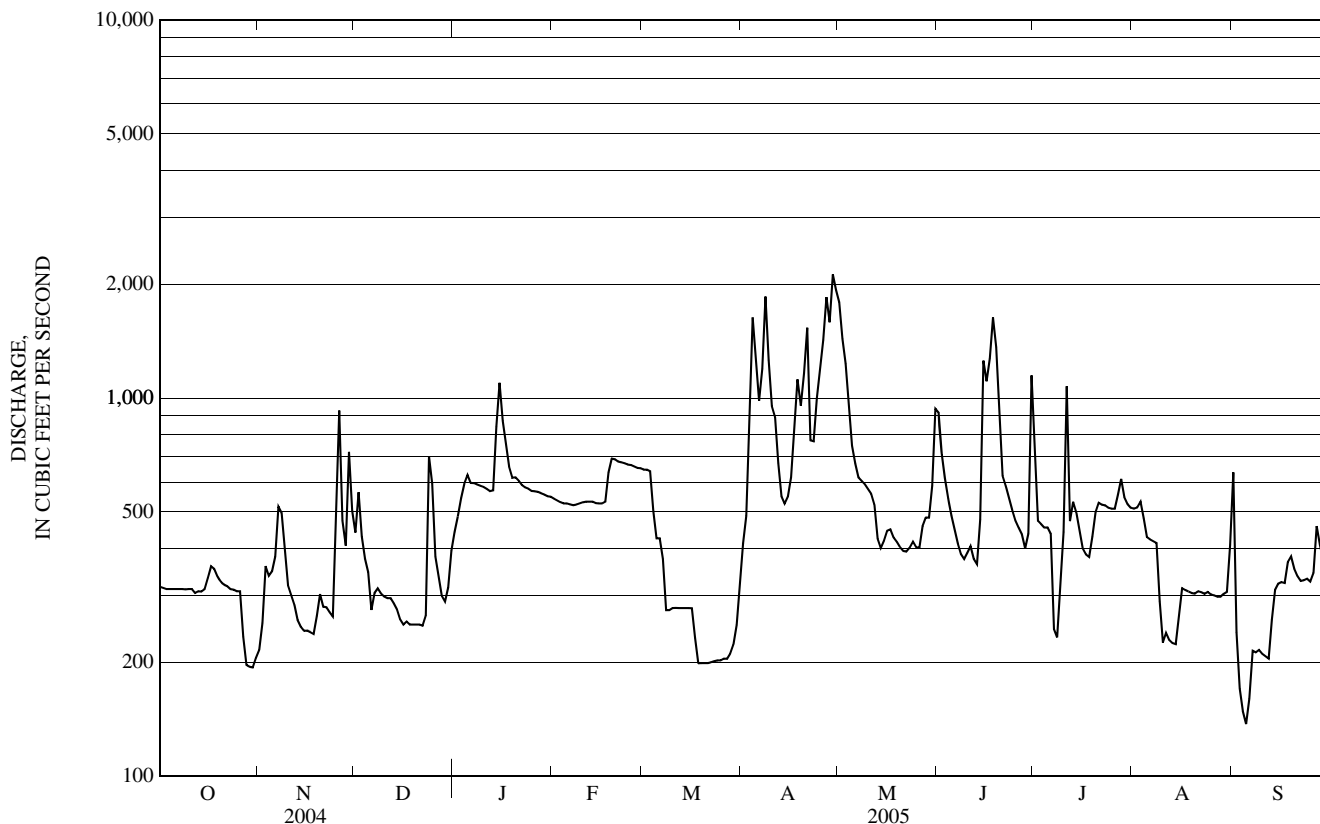
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2005, BY WATER YEAR (WY)

MEAN	533	544	714	796	745	523	654	519	390	413	434	442
MAX	1,342	1,056	1,485	1,198	1,325	1,088	1,206	1,691	863	1,187	1,043	1,095
(WY)	(1978)	(1978)	(1960)	(2004)	(1974)	(1979)	(2002)	(1974)	(1984)	(1996)	(1976)	(1963)
MIN	111	181	310	462	219	118	247	162	80.9	55.7	64.7	111
(WY)	(1969)	(1967)	(2002)	(1979)	(2003)	(2001)	(1995)	(1988)	(1962)	(1965)	(1975)	(1968)

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

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1957 - 2005	
ANNUAL TOTAL	185,001		182,382			
ANNUAL MEAN	505		500		558	
HIGHEST ANNUAL MEAN					789	1976
LOWEST ANNUAL MEAN					339	2003
HIGHEST DAILY MEAN	2,230	Aug 31	2,120	Apr 29	5,610	May 11, 2000
LOWEST DAILY MEAN	175	Feb 29	138	Sep 5	30	Aug 6, 1965
ANNUAL SEVEN-DAY MINIMUM	177	Feb 25	180	Sep 3	33	Aug 20, 1975
MAXIMUM PEAK FLOW			2,400	Apr 29	5,820	May 11, 2000
MAXIMUM PEAK STAGE			5.20	Apr 29	8.37	May 11, 2000
10 PERCENT EXCEEDS	1,070		853		1,020	
50 PERCENT EXCEEDS	332		423		500	
90 PERCENT EXCEEDS	212		240		159	

e Estimated



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

## WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June 1999 to September 30, 2005 (discontinued).

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

REMARKS.--Records fair.

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	16.5	17.5	11.0	9.5	10.5	3.5	1.5	2.5	2.5	0.0	1.5
2	19.0	16.0	17.5	10.0	8.5	9.5	3.0	1.0	2.0	2.0	0.0	1.0
3	18.5	16.0	17.0	9.5	5.5	7.5	2.0	0.5	1.5	2.5	0.5	1.5
4	18.5	15.5	17.0	8.0	5.0	6.0	2.5	0.5	1.5	2.5	1.0	1.5
5	16.5	15.0	16.0	7.0	3.5	5.5	2.5	0.5	1.5	2.5	0.5	1.5
6	16.5	14.5	15.5	6.0	3.5	4.5	3.0	0.5	1.5	2.5	0.5	1.5
7	18.0	14.5	16.0	6.0	3.5	5.0	2.5	0.5	1.5	2.5	0.5	1.5
8	18.5	15.0	16.5	5.5	3.5	4.5	2.5	0.5	1.5	2.5	0.5	1.5
9	17.5	15.5	16.0	4.5	3.0	4.0	2.5	0.5	1.5	3.0	1.0	2.0
10	16.5	15.0	16.0	4.0	2.0	3.0	2.5	1.0	1.5	3.0	1.0	2.0
11	16.5	15.0	15.5	5.5	3.0	4.0	2.5	1.0	1.5	2.5	0.5	1.5
12	15.5	14.0	15.0	5.5	3.0	4.0	2.5	0.5	1.5	2.5	0.5	1.5
13	16.5	13.5	14.5	5.0	3.0	4.0	2.5	0.5	1.5	3.0	1.5	2.0
14	16.5	13.5	15.0	5.5	3.0	4.0	2.0	0.0	1.0	2.5	0.0	1.5
15	15.5	14.5	15.0	5.5	3.0	4.5	2.0	0.0	1.0	1.5	0.0	1.0
16	15.5	14.0	15.0	5.5	3.5	4.5	2.5	0.0	1.0	2.0	0.0	1.0
17	14.5	13.0	13.5	5.5	4.0	4.5	2.5	0.0	1.0	2.0	0.0	1.0
18	13.5	12.5	13.0	6.5	4.5	5.5	2.0	0.0	1.0	2.0	0.0	1.0
19	14.5	12.0	13.0	7.0	4.5	6.0	2.5	0.5	1.5	2.5	0.0	1.0
20	14.0	12.0	13.0	5.0	2.5	4.0	2.0	0.0	0.5	2.0	0.0	1.5
21	14.5	12.0	12.5	5.5	4.0	4.5	1.5	0.0	0.5	2.0	0.0	1.0
22	14.0	12.0	12.5	6.0	4.0	5.0	2.5	0.0	1.5	2.5	0.0	1.0
23	14.0	11.5	12.5	5.5	3.5	4.5	3.5	1.0	2.0	2.5	0.0	1.5
24	13.5	11.5	12.0	6.0	4.0	5.0	2.0	0.0	0.5	2.5	0.0	1.5
25	13.0	11.5	12.5	7.0	4.0	6.0	1.5	0.0	0.5	2.5	0.5	1.5
26	13.5	11.5	12.0	4.5	1.0	2.5	2.0	0.0	0.5	2.5	0.5	1.5
27	13.0	10.5	12.0	2.5	0.5	1.5	2.0	0.0	0.5	2.0	0.0	1.0
28	12.5	10.0	11.0	4.5	1.5	3.0	2.0	0.0	1.0	2.5	0.0	1.0
29	12.5	9.5	10.5	4.0	2.0	3.0	2.0	0.0	1.0	3.0	0.0	1.5
30	11.5	9.0	10.5	3.5	1.5	2.5	2.0	0.0	1.0	3.0	0.5	1.5
31	12.0	10.5	11.5	---	---	---	3.0	0.5	1.5	3.0	0.5	1.5
MONTH	19.0	9.0	14.1	11.0	0.5	4.8	3.5	0.0	1.2	3.0	0.0	1.4



## 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 mi<sup>2</sup>.

## 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, 10,300 ft<sup>3</sup>/s, June 14, gage height, 8.82; maximum gage height, 10.21 ft, Jan. 19; minimum daily discharge, 365 ft<sup>3</sup>/s, Aug. 14.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	549	686	2,190	e1,260	e971	e997	e2,360	5,350	3,430	1,810	789	4,520
2	534	617	3,230	e1,550	e991	e1,010	e2,530	4,510	2,390	1,280	798	2,000
3	530	1,050	2,260	e1,660	e986	e1,000	e5,460	3,630	1,900	1,090	940	1,050
4	527	1,180	1,730	1,720	e1,000	e880	8,080	3,120	1,600	933	884	704
5	529	1,310	1,500	1,600	e981	e815	6,660	2,480	1,370	894	706	533
6	520	1,570	951	e1,390	e954	e796	5,470	2,190	1,190	1,270	639	440
7	514	2,060	1,210	e1,220	e940	e679	6,670	1,980	1,070	943	591	426
8	506	2,060	1,290	e1,220	e957	e626	9,120	1,940	962	649	562	430
9	500	1,590	1,320	e1,230	e989	e698	7,970	1,840	898	1,180	538	537
10	493	1,180	1,170	e1,210	e1,030	e649	5,820	1,740	968	2,180	390	476
11	489	1,060	1,170	e1,200	e1,000	e631	5,190	1,690	1,530	2,450	413	416
12	494	962	1,170	e1,150	e1,030	e637	3,790	1,730	1,200	1,730	427	389
13	489	800	1,060	e1,090	e1,030	e658	2,910	1,460	984	1,070	385	373
14	480	721	957	e2,040	e991	e630	2,750	1,280	4,350	1,080	365	430
15	502	694	716	4,180	e958	e625	2,750	1,380	7,500	1,030	383	480
16	809	682	749	2,910	e1,000	e619	2,980	1,620	4,500	869	423	564
17	1,110	662	990	e2,340	e1,110	e568	3,840	1,680	4,380	750	433	568
18	947	658	934	e1,870	e1,160	e528	5,030	1,480	6,610	708	414	865
19	781	754	e1,030	e1,550	e1,190	e557	4,700	1,350	5,230	761	404	906
20	687	909	e910	e1,320	e1,200	e522	5,390	1,230	3,340	984	402	728
21	625	857	759	e1,460	e1,150	e512	6,930	1,130	2,260	921	481	623
22	592	906	e940	e1,370	e1,080	e551	4,690	1,320	1,970	878	492	553
23	572	884	e1,140	e1,230	e1,120	e571	4,090	1,650	1,710	903	442	523
24	556	805	e4,000	e1,240	e1,080	e576	6,010	3,070	1,450	801	440	517
25	547	1,640	2,920	e1,210	e1,070	e576	6,490	1,980	1,260	744	443	504
26	534	3,710	1,890	e1,220	e1,050	e590	5,140	1,630	1,110	736	415	528
27	524	2,140	1,500	e1,150	e1,020	e567	4,610	1,990	998	1,120	395	1,500
28	430	1,710	e1,150	e1,120	e1,000	e672	5,290	2,080	907	1,980	392	1,160
29	409	3,460	e920	e1,060	---	e858	6,910	1,910	1,040	1,280	467	899
30	402	2,530	e1,100	e1,040	---	e1,330	6,280	2,290	2,540	981	535	1,190
31	495	---	e1,210	e1,040	---	e1,830	---	3,380	---	846	1,650	---
TOTAL	17,676	39,847	44,066	46,850	29,038	22,758	155,910	66,110	70,647	34,851	17,038	24,832
MEAN	570	1,328	1,421	1,511	1,037	734	5,197	2,133	2,355	1,124	550	828
MAX	1,110	3,710	4,000	4,180	1,200	1,830	9,120	5,350	7,500	2,450	1,650	4,520
MIN	402	617	716	1,040	940	512	2,360	1,130	898	649	365	373

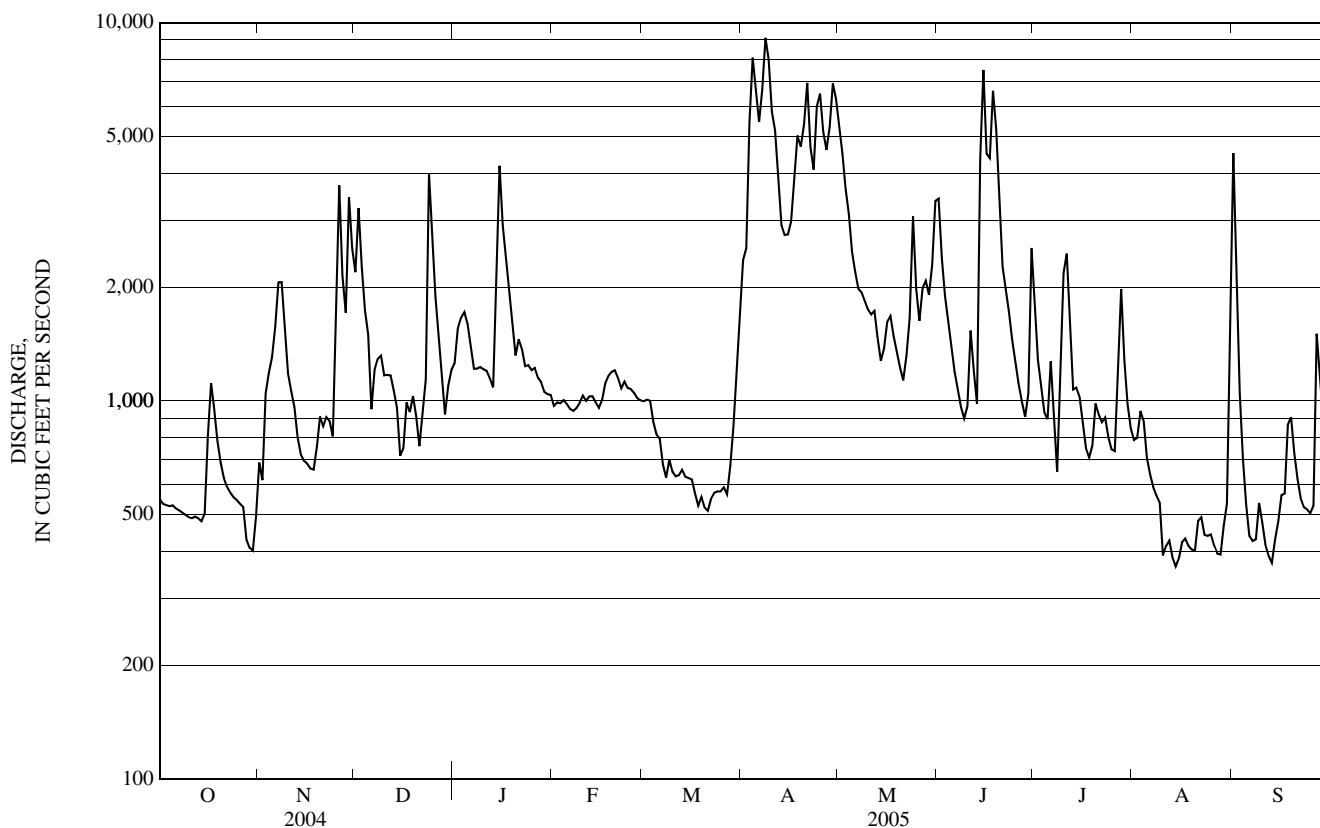
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2005, BY WATER YEAR (WY)

MEAN	1,272	1,600	1,540	1,371	1,205	1,627	3,927	2,513	1,288	897	846	920
MAX	3,445	3,119	3,095	2,537	3,295	6,254	7,348	6,018	3,724	2,818	2,475	3,203
(WY)	(1978)	(1960)	(1974)	(1998)	(1981)	(1936)	(1934)	(1972)	(1943)	(1996)	(1976)	(1954)
MIN	355	583	643	549	350	271	1,206	843	472	292	220	357
(WY)	(1949)	(1948)	(1948)	(1948)	(1940)	(1940)	(1995)	(1998)	(1962)	(1955)	(1940)	(1949)

01129500 CONNECTICUT RIVER AT NORTH STRATFORD, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1930 - 2005	
ANNUAL TOTAL	559,019		569,623		1,583	
ANNUAL MEAN	1,527		1,561		2,246	
HIGHEST ANNUAL MEAN					1,033	1974
LOWEST ANNUAL MEAN					28,000	1995
HIGHEST DAILY MEAN	6,920	Apr 2	9,120	Apr 8	108	Mar 19, 1936
LOWEST DAILY MEAN	376	Jul 1	365	Aug 14	128	Sep 29, 1960
ANNUAL SEVEN-DAY MINIMUM	433	Jun 25	398	Aug 10	32,300	Aug 16, 1975
MAXIMUM PEAK FLOW			10,300	Jun 14	ab 20.60	Mar 31, 1998
MAXIMUM PEAK STAGE			a 10.21	Jan 19		Mar 6, 1979
10 PERCENT EXCEEDS	2,880		3,660		3,040	
50 PERCENT EXCEEDS	1,120		1,040		1,120	
90 PERCENT EXCEEDS	515		494		459	

a Ice jam.  
 b From floodmarks in well  
 c Estimated.



01129500 CONNECTICUT RIVER AT NORTH STRATFORD, NH—Continued

## WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June 1999 to September 30, 2005 (discontinued).

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

REMARKS.--Records fair.

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	13.5	14.5	8.5	8.0	8.5	3.0	2.0	2.5	---	---	---
2	15.0	13.0	14.0	8.5	7.5	8.0	3.0	2.0	2.5	---	---	---
3	15.5	12.0	13.5	8.0	6.5	7.0	2.0	1.5	1.5	---	---	---
4	15.0	12.0	13.0	6.5	5.5	6.0	1.5	1.0	1.0	---	---	---
5	13.0	10.5	12.0	5.5	4.5	5.5	1.5	1.0	1.0	---	---	---
6	12.0	9.5	10.5	4.5	4.5	4.5	1.0	1.0	1.0	---	---	---
7	13.0	9.0	11.0	5.5	4.5	5.0	1.0	1.0	1.0	---	---	---
8	14.5	10.5	12.0	5.5	4.5	5.0	1.0	1.0	1.0	---	---	---
9	14.5	12.0	13.5	4.5	2.5	4.0	1.5	1.0	1.0	---	---	---
10	13.5	12.5	13.0	2.5	1.5	2.0	1.5	1.0	1.0	---	---	---
11	13.0	12.0	12.5	2.5	1.5	2.0	1.5	1.0	1.5	---	---	---
12	12.0	10.5	11.0	3.5	2.0	2.5	1.5	1.0	1.5	---	---	---
13	12.5	9.0	10.5	3.0	1.5	2.0	2.0	1.5	1.5	---	---	---
14	12.5	9.0	10.5	2.5	1.0	1.5	1.5	1.0	1.0	---	---	---
15	12.5	11.0	11.5	3.0	1.0	2.0	---	---	---	---	---	---
16	12.5	11.5	12.0	3.0	1.5	2.5	---	---	---	---	---	---
17	11.5	10.0	11.0	3.5	2.5	3.0	---	---	---	---	---	---
18	10.5	9.5	10.0	4.0	3.0	3.5	---	---	---	---	---	---
19	10.5	8.5	9.5	5.5	4.0	4.5	---	---	---	---	---	---
20	10.5	8.0	9.0	5.0	4.0	4.5	---	---	---	---	---	---
21	9.5	8.0	8.5	4.0	3.5	4.0	---	---	---	---	---	---
22	9.5	8.0	8.5	5.0	3.5	4.0	---	---	---	---	---	---
23	10.0	7.5	8.5	5.0	3.5	4.0	---	---	---	---	---	---
24	9.5	7.0	8.0	4.5	4.0	4.5	---	---	---	---	---	---
25	9.5	7.5	8.5	6.5	4.5	5.5	---	---	---	---	---	---
26	9.5	7.5	8.5	5.5	2.0	4.0	---	---	---	---	---	---
27	10.0	8.5	9.5	2.0	1.0	1.5	---	---	---	---	---	---
28	9.5	7.0	8.5	3.5	1.5	2.5	---	---	---	---	---	---
29	8.5	6.5	7.5	3.5	3.0	3.5	---	---	---	---	---	---
30	7.5	6.0	6.5	3.0	2.5	2.5	---	---	---	---	---	---
31	8.5	7.5	8.5	---	---	---	---	---	---	---	---	---
MONTH	16.5	6.0	10.5	8.5	1.0	4.0	3.0	1.0	1.4	---	---	---





## 01131500 CONNECTICUT RIVER NEAR DALTON, NH

LOCATION.--Lat 44° 24'36", long 71° 43'16", Coos County, Hydrologic Unit 01080101, on left bank, 250 ft upstream from Dalton Hill Road bridge, 1,200 ft downstream from dam of Gilman Paper Co., 0.3 mi south of Post Office in Gilman, VT, 0.3 mi north of Dalton Hill Road and State Highway 135 intersection in Cushman, 1.2 mi downstream from Dalton, and at mile 300.1.

DRAINAGE AREA.--1,514 mi<sup>2</sup>.

PERIOD OF RECORD.--Discharge records: March 1927 to current year. Published as "at Waterford, VT" 1927-35. Records published for both sites January to September 1935.

REVISED RECORDS.--WSP 891: Drainage area. WSP 1231: 1935. WSP 1301: 1928-35(M).

GAGE.--Water-stage recorder. Datum of gage is 799.89 ft above National Geodetic Vertical Datum of 1929. Prior to September 30, 1935, nonrecording gage at bridge 10.5 mi downstream at mean sea level. January 1, 1935 to June 29, 1937, nonrecording gage at bridge 250 ft downstream at present datum. July 11, 1956 to June 1, 1961, auxiliary nonrecording gage read hourly at same site.

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, and other reservoirs. These reservoirs have a combined usable capacity of about 8.3 billion ft<sup>3</sup>.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,100 ft<sup>3</sup>/s, Apr. 6, gage height, 17.14 ft; minimum daily discharge, 666 ft<sup>3</sup>/s, Aug. 14, 19.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,060	973	4,390	2,180	1,440	1,370	4,340	10,500	7,770	4,470	1,230	8,250
2	954	1,180	6,520	2,700	1,510	1,380	4,990	9,200	6,220	3,240	1,160	7,650
3	978	1,560	5,820	2,890	1,620	1,370	e8,550	7,460	4,800	2,430	1,380	3,990
4	956	2,100	4,290	2,990	1,490	1,370	12,500	6,220	3,860	1,840	1,480	2,500
5	951	2,250	3,440	2,820	1,520	1,310	12,200	5,340	3,300	1,830	1,370	1,750
6	933	2,880	2,400	2,440	1,440	1,200	14,100	4,510	2,860	2,300	984	1,380
7	769	2,850	1,320	2,050	1,410	1,070	14,000	4,080	2,610	2,580	1,070	1,160
8	913	3,420	2,410	1,980	1,400	1,110	13,800	3,970	2,360	2,190	967	1,080
9	869	3,090	2,840	1,990	1,430	1,160	14,400	3,840	1,920	1,640	866	1,010
10	878	2,570	2,760	1,940	1,520	1,070	13,400	3,630	1,860	3,360	820	1,040
11	892	1,860	2,650	1,940	1,720	1,030	10,900	3,490	2,410	3,820	694	932
12	802	1,730	2,660	1,860	1,560	1,030	8,640	3,760	2,740	3,970	679	875
13	911	1,580	2,730	1,750	1,540	1,060	6,420	3,620	2,550	2,880	749	753
14	825	1,320	2,530	2,570	1,490	1,020	5,490	3,100	2,280	1,950	666	785
15	940	1,230	1,460	5,930	1,420	1,010	5,170	2,820	9,490	1,850	685	900
16	1,150	1,310	995	6,280	1,470	994	5,160	3,640	11,200	1,870	705	1,160
17	1,950	1,250	1,070	4,820	1,650	994	5,570	4,150	8,400	1,550	765	1,150
18	2,050	1,130	1,340	3,750	1,880	963	7,090	3,760	11,000	1,350	702	1,320
19	1,610	1,180	1,410	2,920	1,690	965	7,870	3,250	12,700	1,320	666	1,680
20	1,350	1,540	e1,400	2,210	1,700	910	8,000	2,910	9,410	1,440	671	1,440
21	1,250	1,470	1,300	2,310	1,650	874	10,600	2,700	5,820	1,570	1,390	1,400
22	1,100	1,460	1,100	e2,180	1,520	936	11,100	2,770	4,410	1,420	2,430	1,210
23	1,070	1,560	1,370	1,950	1,570	981	8,400	4,090	3,880	1,410	1,220	1,010
24	1,010	1,530	3,320	e1,920	1,530	994	9,920	7,240	3,260	1,390	1,070	748
25	984	1,850	5,630	1,870	1,490	1,000	13,000	6,960	2,850	1,130	898	981
26	961	4,580	4,850	1,890	1,470	1,020	12,300	5,250	2,470	1,180	869	841
27	958	5,040	3,590	e1,770	1,410	992	9,710	5,620	2,090	1,240	751	1,460
28	908	3,470	2,620	e1,710	1,380	1,170	8,550	5,640	2,010	2,320	760	2,160
29	847	4,810	1,930	e1,600	---	1,590	10,600	5,140	1,890	2,720	1,430	1,650
30	796	5,810	2,060	1,550	---	2,490	11,300	5,840	3,630	1,640	1,960	1,730
31	796	---	2,090	e1,530	---	3,410	---	7,950	---	1,430	2,200	---
TOTAL	32,421	68,583	84,295	78,290	42,920	37,843	288,070	152,450	142,050	65,330	33,287	53,995
MEAN	1,046	2,286	2,719	2,525	1,533	1,221	9,602	4,918	4,735	2,107	1,074	1,800
MAX	2,050	5,810	6,520	6,280	1,880	3,410	14,400	10,500	12,700	4,470	2,430	8,250
MIN	769	973	995	1,530	1,380	874	4,340	2,700	1,860	1,130	666	748

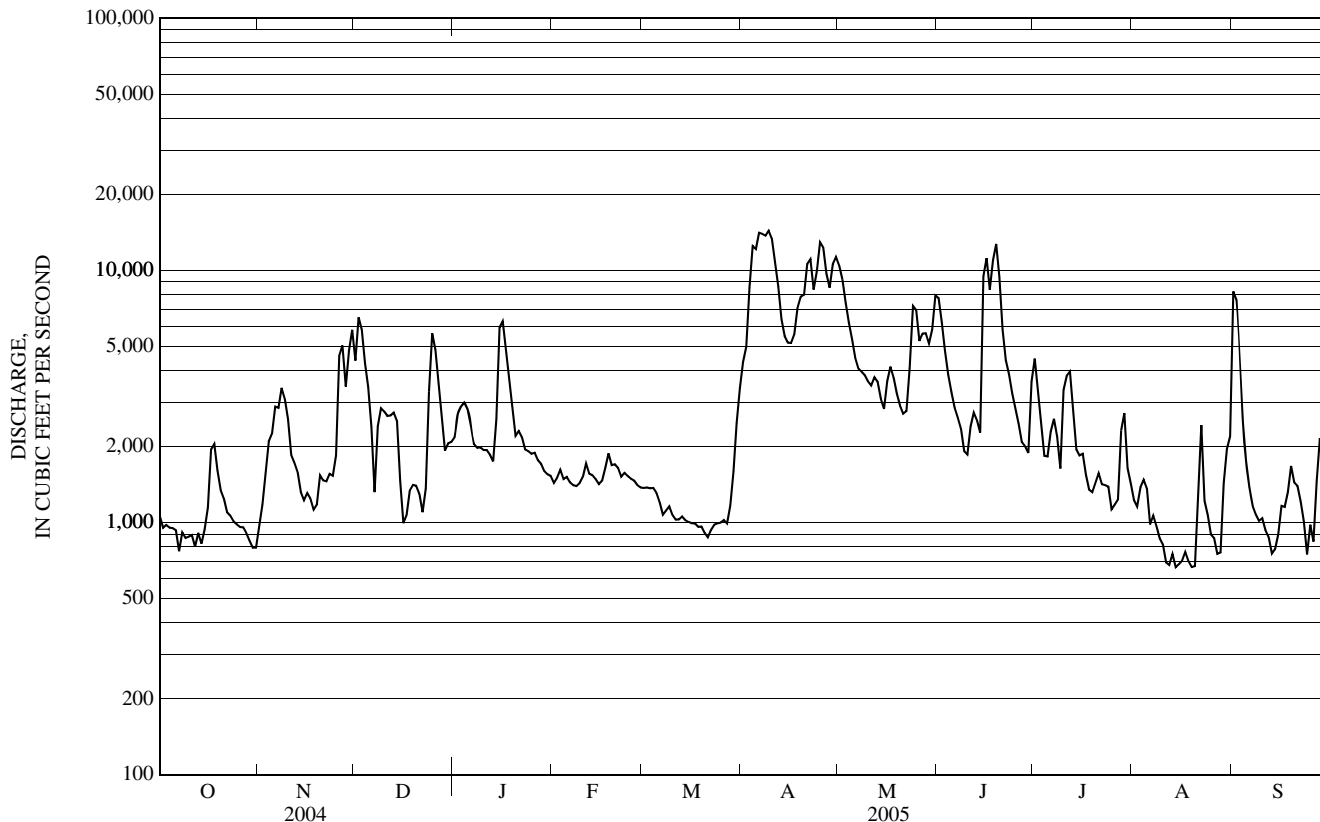
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2005, BY WATER YEAR (WY)

MEAN	2,167	2,872	2,525	2,143	1,802	2,901	7,817	5,460	2,544	1,584	1,417	1,531
MAX	6,129	7,331	5,786	4,321	6,093	12,140	15,380	11,890	6,415	5,059	3,662	7,140
(WY)	(1978)	(1928)	(1974)	(1996)	(1981)	(1936)	(1934)	(1972)	(2002)	(1996)	(1976)	(1954)
MIN	654	1,066	860	751	533	482	2,631	1,951	1,030	654	406	654
(WY)	(1949)	(1948)	(1948)	(1948)	(1940)	(1940)	(1995)	(1941)	(1988)	(1955)	(1942)	(1995)

01131500 CONNECTICUT RIVER NEAR DALTON, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1927 - 2005	
ANNUAL TOTAL	1,036,612		1,079,534			
ANNUAL MEAN	2,832		2,958		2,901	
HIGHEST ANNUAL MEAN					4,203 1996	
LOWEST ANNUAL MEAN					1,934 1995	
HIGHEST DAILY MEAN	13,000	Apr 3	14,400	Apr 9	46,500	Mar 20, 1936
LOWEST DAILY MEAN	583	Jul 5	a 666	Aug 14	115	Oct 3, 1937
ANNUAL SEVEN-DAY MINIMUM	834	Jun 26	694	Aug 14	265	Sep 8, 1957
MAXIMUM PEAK FLOW			18,100	Apr 6	48,300	Mar 20, 1936
MAXIMUM PEAK STAGE			17.14	Apr 6	25.60	Mar 20, 1936
10 PERCENT EXCEEDS	5,540		7,150		6,070	
50 PERCENT EXCEEDS	2,100		1,750		1,860	
90 PERCENT EXCEEDS	979		924		820	

a Also occurred on August 19.  
e Estimated.



## 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 mi<sup>2</sup>.

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 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Apr 3	1545	966	5.56	Sep 1	0015	*1,200	*6.14
Apr 8	0145	885	5.39				

Minimum discharge, 32 ft<sup>3</sup>/s, Aug. 28, gage height, 1.96 ft.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	59	249	e145	e56	e47	186	287	166	67	53	573
2	45	57	294	e125	e52	e47	277	221	126	66	58	152
3	44	107	156	e107	e47	e46	733	193	106	59	170	92
4	43	75	e113	e89	e48	e45	486	164	96	54	74	73
5	43	133	e94	e74	e49	e46	306	146	85	77	62	64
6	42	115	e79	e69	e49	e46	361	134	78	91	53	56
7	42	154	e105	e63	e52	e47	514	126	74	63	47	51
8	42	129	128	e62	e58	e50	648	130	67	55	44	49
9	42	88	111	e63	e66	e55	420	118	69	222	42	52
10	42	69	93	e62	e75	e51	376	110	96	172	41	46
11	41	66	103	e60	e69	e47	335	107	93	87	56	43
12	42	62	99	e59	e65	e45	249	126	74	64	47	42
13	41	57	88	e64	e60	e45	209	104	67	57	44	42
14	41	55	e74	e380	e58	e44	217	97	203	55	42	41
15	44	57	e63	e275	e58	e44	212	139	342	87	51	57
16	92	53	e82	e195	e63	e45	232	150	174	60	43	59
17	91	54	e90	e160	e71	e46	286	127	298	118	39	60
18	66	57	e108	e125	e65	e45	317	107	468	72	35	92
19	57	62	e84	e98	e58	e45	293	98	251	114	34	67
20	52	60	e81	e90	e55	e46	338	90	152	121	35	58
21	49	63	e82	e84	e53	e49	384	85	117	68	91	54
22	47	71	e103	e80	e52	e50	238	127	122	73	56	48
23	47	66	e162	e78	e52	e48	321	143	99	85	45	48
24	45	65	e425	e76	e53	e47	453	216	86	58	43	43
25	45	227	e180	e75	e52	e47	356	134	77	52	40	41
26	44	222	e118	e73	e51	e49	278	118	69	50	37	62
27	44	117	e105	e70	e50	e49	222	130	65	202	34	181
28	42	143	e97	e66	e47	e54	302	136	61	199	39	81
29	42	311	e88	e63	---	e66	368	122	67	85	51	79
30	42	147	e92	e61	---	e82	264	295	95	65	48	90
31	60	---	e98	e59	---	e105	---	215	---	55	406	---
TOTAL	1,504	3,001	3,844	3,150	1,584	1,578	10,181	4,495	3,943	2,753	1,960	2,496
MEAN	48.5	100	124	102	56.6	50.9	339	145	131	88.8	63.2	83.2
MAX	92	311	425	380	75	105	733	295	468	222	406	573
MIN	41	53	63	59	47	44	186	85	61	50	34	41
CFSM	0.90	1.86	2.30	1.89	1.05	0.95	6.31	2.70	2.44	1.65	1.18	1.55
IN.	1.04	2.08	2.66	2.18	1.10	1.09	7.04	3.11	2.73	1.90	1.36	1.73

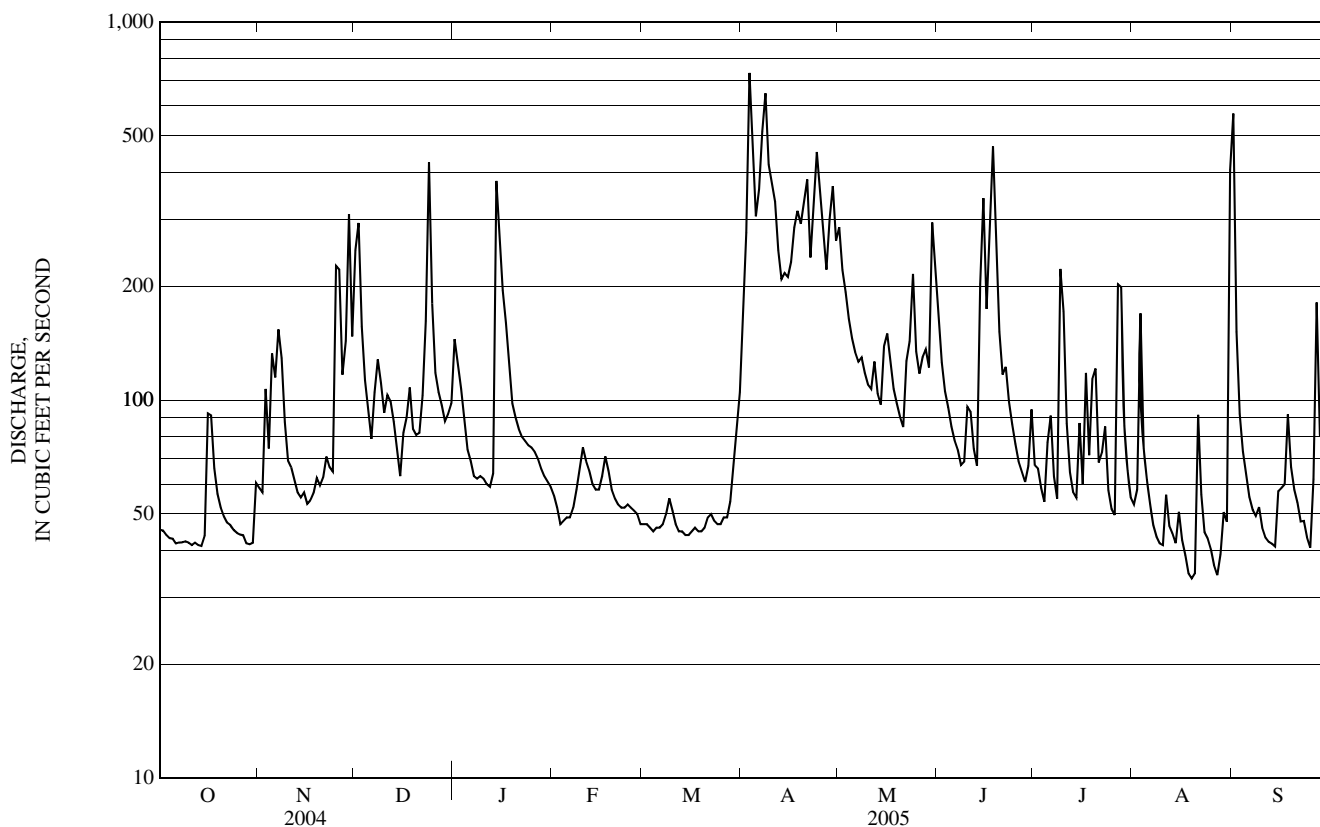
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1979, 1998 - 2005, BY WATER YEAR (WY)

MEAN	82.3	102	88.5	65.8	53.9	96.5	290	209	111	68.6	56.5	61.8
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)

01133000 EAST BRANCH PASSUMPSIC RIVER NEAR EAST HAVEN, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939-79,1998-2005	
ANNUAL TOTAL	41,774		40,489			
ANNUAL MEAN	114		111		107	
HIGHEST ANNUAL MEAN					166	1973
LOWEST ANNUAL MEAN					76.0	1941
HIGHEST DAILY MEAN	552	Apr 2	733	Apr 3	2,310	Jun 12, 2002
LOWEST DAILY MEAN	38	Feb 19	a 34	Aug 19	b 12	Sep 1, 1999
ANNUAL SEVEN-DAY MINIMUM	39	Feb 18	40	Aug 14	12	Aug 31, 1999
MAXIMUM PEAK FLOW			1,200	Sep 1	4,450	Jun 30, 1973
MAXIMUM PEAK STAGE			6.14	Sep 1	11.45	Jun 30, 1973
INSTANTANEOUS LOW FLOW			32	Aug 28	c 11	Sep 4, 1999
ANNUAL RUNOFF (CFSM)	2.12		2.06		1.99	
ANNUAL RUNOFF (INCHES)	28.88		28.00		27.01	
10 PERCENT EXCEEDS	238		249		231	
50 PERCENT EXCEEDS	80		69		64	
90 PERCENT EXCEEDS	45		44		31	

- a Also occurred on Aug. 27.
- b Also occurred on Aug. 15, 16, 2001.
- c Also occurred on Aug. 16, 2001.
- e Estimated.



## CONNECTICUT RIVER BASIN

01134500 MOOSE RIVER AT VICTORY, VT

LOCATION.--Lat 44° 30'42", long 71° 50'16", 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 mi<sup>2</sup>.

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 poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Apr 4	0530	*1,610	*8.45	Jun 19	0545	1,160	7.67
Apr 8	1600	1,210	7.78	Sep 1	1400	1,510	8.30

Minimum discharge, 10 ft<sup>3</sup>/s, Aug. 20, gage height, 2.60 ft.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	51	210	e115	e43	e36	e330	490	358	120	36	1,220
2	26	48	507	e140	e40	e36	e510	401	213	78	34	753
3	24	134	305	e110	e36	e35	e770	298	153	58	122	200
4	24	106	e169	e100	e37	e34	1,390	241	124	49	65	117
5	24	150	e125	e80	e37	e36	790	202	97	54	42	89
6	24	176	e92	e70	e37	e35	686	173	82	249	35	69
7	24	196	e96	e65	e38	e35	887	159	78	135	27	56
8	24	191	e105	e62	e42	e36	1,140	176	67	78	23	48
9	23	130	e117	e61	e47	e39	1,020	161	59	215	20	48
10	22	84	e103	e64	e59	e41	766	141	104	470	18	43
11	24	80	e130	e62	e56	e39	708	133	184	168	17	37
12	23	71	e127	e59	e51	e37	521	163	99	88	16	34
13	23	55	e109	e61	e48	e35	365	138	74	64	16	31
14	23	50	e83	e235	e45	e35	340	112	81	54	15	30
15	23	52	e66	e410	e44	e35	308	145	441	77	25	39
16	94	52	e61	e290	e48	e34	319	224	296	53	22	62
17	128	53	e76	e170	e52	e35	385	218	349	51	19	50
18	79	55	e70	e120	e55	e35	484	161	743	47	15	69
19	57	67	e91	e82	e50	e35	439	137	1,010	52	12	72
20	47	67	e78	e75	e46	e36	475	119	450	155	11	51
21	40	61	e71	e67	e41	e37	703	106	206	68	226	49
22	38	75	e91	e65	e39	e39	507	143	167	47	212	39
23	35	77	e122	e62	e39	e45	413	174	135	43	70	33
24	33	68	e420	e60	e39	e48	728	250	105	36	48	29
25	31	225	556	e58	e39	e50	845	172	80	30	41	27
26	31	405	256	e56	e38	e53	597	139	65	28	31	27
27	30	180	e130	e53	e37	e60	397	158	55	83	24	125
28	29	145	e98	e51	e36	e77	440	159	52	282	23	78
29	30	428	e90	e49	---	e110	672	137	71	98	143	59
30	28	279	e85	e47	---	e160	552	223	258	57	165	132
31	35	---	e87	e45	---	e240	---	332	---	42	336	---
TOTAL	1,123	3,811	4,726	3,044	1,219	1,638	18,487	5,985	6,256	3,129	1,909	3,716
MEAN	36.2	127	152	98.2	43.5	52.8	616	193	209	101	61.6	124
MAX	128	428	556	410	59	240	1,390	490	1,010	470	336	1,220
MIN	22	48	61	45	36	34	308	106	52	28	11	27
CFSM	0.48	1.69	2.03	1.31	0.58	0.70	8.19	2.57	2.77	1.34	0.82	1.65
IN.	0.56	1.89	2.34	1.51	0.60	0.81	9.15	2.96	3.09	1.55	0.94	1.84

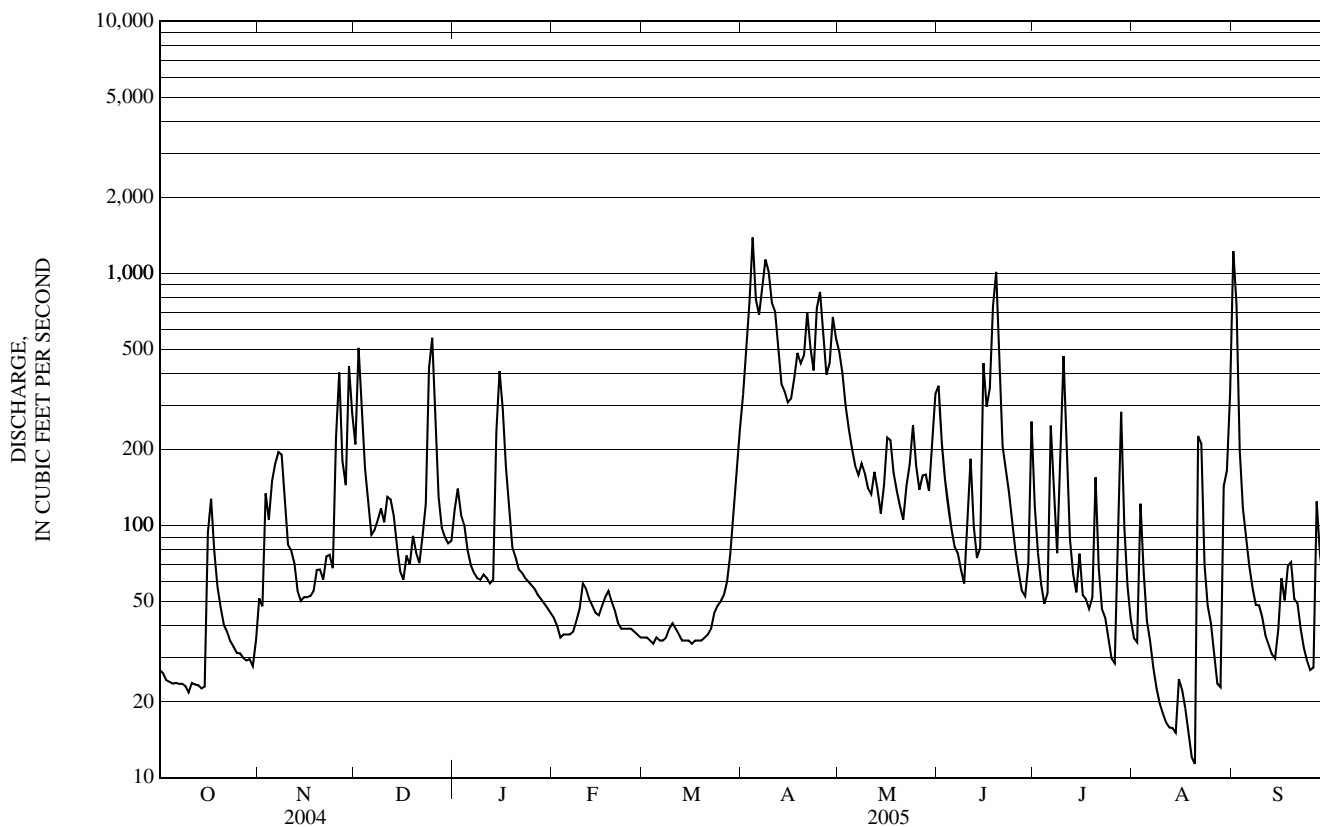
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2005, BY WATER YEAR (WY)

MEAN	109	148	120	81.3	71.5	163	490	268	117	70.9	65.0	66.5
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)

01134500 MOOSE RIVER AT VICTORY, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1947 - 2005	
ANNUAL TOTAL	48,115		55,043			
ANNUAL MEAN	131		151		147	
HIGHEST ANNUAL MEAN					205 1974	
LOWEST ANNUAL MEAN					102 1975	
HIGHEST DAILY MEAN	841	Apr 15	1,390	Apr 4	4,100	Mar 31, 1987
LOWEST DAILY MEAN	21	Aug 11	11	Aug 20	2.5	Aug 17, 2001
ANNUAL SEVEN-DAY MINIMUM	23	Oct 9	17	Aug 14	3.6	Jul 29, 1991
MAXIMUM PEAK FLOW			1,610	Apr 4	4,940	Jul 1, 1973
MAXIMUM PEAK STAGE			8.45	Apr 4	12.04	Jul 1, 1973
INSTANTANEOUS LOW FLOW			10	Aug 20	a 2.2	Aug 4, 1991
ANNUAL RUNOFF (CFSM)	1.75		2.01		1.96	
ANNUAL RUNOFF (INCHES)	23.80		27.23		26.57	
10 PERCENT EXCEEDS	318		407		350	
50 PERCENT EXCEEDS	75		70		72	
90 PERCENT EXCEEDS	30		29		21	

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



## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957, 1975 to 1978, 1980 to 1999, and current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
OCT														
05...	0830	23	10.3	92	7.0	47	10.5	.22	.010	.020	<.008	<.006	.017	7
NOV														
04...	0800	113	11.2	85	6.6	33	3.3	.34	E.006	.067	<.008	<.006	.014	2
DEC														
07...	1530	E96	12.5	86	6.4	32	.1	.21	.012	.100	<.008	<.006	.007	1
JAN														
06...	0930	E70	--	--	6.2	32	.0	.17	.020	.129	E.005	<.006	.006	1
FEB														
02...	1415	E40	11.9	82	6.2	38	.1	.15	.027	.167	<.008	<.006	.024	52
MAR														
02...	1000	E36	11.8	80	5.7	43	.1	.13	.032	.172	<.008	<.006	.007	2
31...	0900	E202	13.0	90	6.0	33	.1	.23	.034	.209	<.008	<.006	.017	3
APR														
06...	0845	634	13.0	90	6.0	21	.1	.28	E.008	.116	<.008	<.006	.027	17
11...	1430	721	12.0	89	6.2	21	2.7	E.28	.021	.107	<.008	E.003	.032	29
18...	1730	474	10.9	90	6.3	22	7.4	.23	E.007	.085	<.008	<.006	.019	10
MAY														
05...	0900	205	10.6	83	6.4	24	4.9	.15	E.008	.055	<.008	<.006	.010	2
JUN														
15...	0900	480	7.9	79	6.1	25	14.9	.54	E.006	.053	<.008	<.006	.052	27
JUL														
07...	1215	131	8.0	85	6.1	31	18.1	.40	E.009	.033	<.008	<.006	.024	4
27...	0945	33	6.9	78	6.6	46	20.9	.24	.015	.049	<.008	<.006	.017	3
AUG														
09...	1115	19	7.2	82	6.8	44	21.8	.24	.013	.038	<.008	<.006	.011	1

Remark codes used in this table:

&lt; -- Less than.

E -- Estimated.

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

LOCATION.--Lat 44° 28'34", long 72° 07'30" (revised), 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 mi<sup>2</sup>.

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 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec 23	2115	95	2.10	Aug 21	0725	105	2.18
Jun 14	1840	80	1.98	Aug 31	2040	*155	*2.51
Jun 18	0340	81	1.99				

Minimum discharge, 0.96 ft<sup>3</sup>/s, Aug. 11, 13.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.3	11	6.0	2.3	2.1	11	20	4.9	2.5	2.0	13
2	1.9	2.6	7.8	4.6	2.3	2.1	25	14	4.0	2.3	2.1	4.3
3	2.0	4.6	5.2	4.3	2.2	2.0	42	13	3.6	2.1	1.7	3.0
4	1.9	2.8	4.5	e4.1	2.3	2.0	23	11	3.3	1.9	1.4	2.7
5	1.8	5.8	4.0	3.8	2.3	2.0	21	9.8	3.0	2.6	1.4	2.4
6	1.8	5.6	4.1	3.5	2.3	2.0	26	9.4	2.8	3.2	1.3	2.2
7	1.8	6.3	4.5	3.4	2.4	2.0	36	9.2	2.7	2.3	1.2	2.0
8	1.8	4.7	7.3	3.3	3.0	e2.1	37	9.4	2.5	2.0	1.1	1.9
9	1.7	3.1	5.0	3.3	4.2	e2.1	28	8.3	2.6	10	1.1	1.9
10	1.7	2.6	4.4	3.4	3.3	2.0	28	7.6	2.6	4.3	1.1	1.7
11	1.7	2.7	5.8	3.2	3.0	2.0	22	7.3	2.4	2.5	1.1	1.6
12	1.7	2.6	5.0	3.2	2.8	2.0	17	7.3	2.3	2.0	1.1	1.6
13	1.7	2.3	4.6	3.4	2.7	2.0	16	6.5	2.2	1.9	1.1	1.6
14	1.6	2.2	3.8	17	2.6	2.0	16	6.3	14	1.8	1.2	1.5
15	1.7	2.3	e3.6	e5.2	2.8	2.0	15	9.1	9.6	2.0	1.4	3.9
16	7.6	2.5	e3.5	e4.0	3.1	2.0	16	10	7.3	1.7	1.2	2.4
17	3.3	2.5	e3.4	e3.6	3.2	2.0	18	7.3	14	1.9	1.5	3.0
18	2.6	2.6	e3.3	e3.3	2.8	2.0	17	6.5	40	1.7	1.1	4.3
19	2.2	e3.0	e3.2	e3.2	2.7	2.0	15	6.1	14	2.2	1.1	2.4
20	2.1	e2.8	e3.1	e3.1	2.3	2.1	20	5.6	9.1	1.9	1.1	2.1
21	2.0	e3.1	e3.0	e3.0	2.2	2.2	18	5.3	6.9	1.6	21	1.9
22	1.9	e3.5	e3.0	e2.9	2.3	2.3	12	7.9	6.3	1.5	2.6	1.7
23	1.9	e2.9	e16	e2.8	2.3	2.3	25	6.7	5.3	1.4	1.9	1.7
24	1.9	e3.0	17	e2.7	2.3	2.2	35	6.4	4.7	1.3	1.6	1.5
25	1.8	e11	5.6	e2.6	2.2	2.3	20	5.3	4.0	1.3	1.4	1.6
26	1.8	e6.8	e5.2	2.6	2.2	2.2	14	5.4	3.3	1.3	1.3	3.1
27	1.8	e3.7	e5.0	2.5	e2.2	2.5	16	5.5	2.9	6.3	1.2	3.9
28	1.7	e7.0	e4.8	2.4	e2.1	3.7	25	5.1	2.7	2.8	1.7	2.1
29	1.7	e11	4.6	2.3	---	5.7	18	4.4	2.9	1.7	1.9	3.5
30	1.7	e4.6	4.0	2.4	---	6.9	18	5.4	3.0	1.5	1.6	2.7
31	2.2	---	4.1	2.3	---	9.9	---	6.7	---	1.4	42	---
TOTAL	64.9	122.5	169.4	117.4	72.4	82.7	650	247.8	188.9	74.9	104.5	83.2
MEAN	2.09	4.08	5.46	3.79	2.59	2.67	21.7	7.99	6.30	2.42	3.37	2.77
MAX	7.6	11	17	17	4.2	9.9	42	20	40	10	42	13
MIN	1.6	2.2	3.0	2.3	2.1	2.0	11	4.4	2.2	1.3	1.1	1.5
CFSM	0.64	1.26	1.68	1.17	0.80	0.82	6.67	2.46	1.94	0.74	1.04	0.85
IN.	0.74	1.40	1.94	1.34	0.83	0.95	7.44	2.84	2.16	0.86	1.20	0.95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)

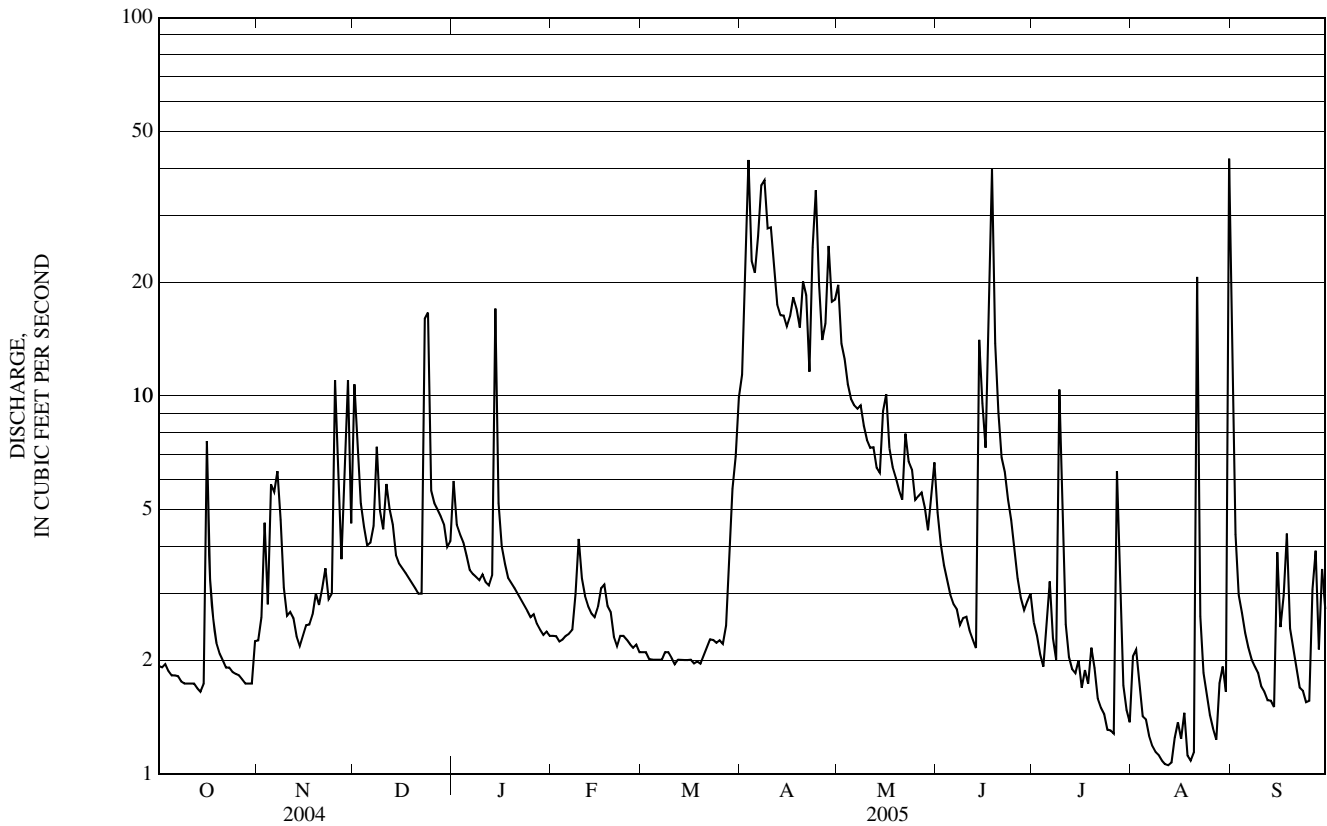
MEAN	3.83	5.59	5.36	4.49	3.20	6.00	19.1	9.11	4.90	3.24	2.92	2.58
MAX	8.75	12.2	12.0	9.04	8.16	10.9	25.4	16.5	12.0	7.79	6.00	4.90
(WY)	(2004)	(2004)	(2004)	(1996)	(1996)	(1998)	(1994)	(2000)	(2002)	(1998)	(1997)	(1999)
MIN	1.34	1.65	1.77	1.58	1.70	2.13	6.87	4.51	1.84	1.40	0.85	1.02
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2001)	(1995)	(1998)	(1995)	(1991)	(2001)	(2001)



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

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005	
ANNUAL TOTAL	1,917.4		1,978.6		5.90	
ANNUAL MEAN	5.24		5.42		8.44 1996	
HIGHEST ANNUAL MEAN					3.93 1995	
LOWEST ANNUAL MEAN					90 Apr 24, 2001	
HIGHEST DAILY MEAN	31	May 24	a 42	Apr 3	0.71 Aug 25, 2001	
LOWEST DAILY MEAN	1.3	Aug 10	b 1.1	Aug 8	0.74 Sep 14, 2001	
ANNUAL SEVEN-DAY MINIMUM	1.5	Aug 5	1.1	Aug 7	c 249 Jul 15, 1997	
MAXIMUM PEAK FLOW			155	Aug 31	2.96 Jul 15, 1997	
MAXIMUM PEAK STAGE			2.51	Aug 31	f 0.65 Aug 15, 2001	
INSTANTANEOUS LOW FLOW			d 0.96	Aug 11	1.82	
ANNUAL RUNOFF (CFSM)	1.61		1.67		24.67	
ANNUAL RUNOFF (INCHES)	21.95		22.65		13	
10 PERCENT EXCEEDS	12		14		3.4	
50 PERCENT EXCEEDS	3.2		2.8		1.5	
90 PERCENT EXCEEDS	1.8		1.6			

- a Also occurred on Aug. 31.
- b Also occurred on Aug. 9-13, 18-20.
- c From rating curve extended above 84 ft<sup>3</sup>/s on basis of theoretical weir formula.
- d Also occurred on Aug. 13.
- e Estimated.
- f Also occurred on August 24-26 and September 9, 2001.



## 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 mi<sup>2</sup>.

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 600 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec 23	2345	701	2.74	Jun 18	0715	753	2.82
Apr 3	1500	836	2.94	Aug 31	2200	*1,120	*3.31
Apr 7	2215	609	2.59				

Minimum discharge, 4.4 ft<sup>3</sup>/s, Aug. 12, 14, gage height, 0.38 ft.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	23	118	e62	e20	e22	e250	258	64	22	16	263
2	15	21	143	e56	19	e22	e350	158	49	19	31	63
3	17	60	69	50	e19	e22	647	143	40	17	20	35
4	15	35	51	50	e19	e22	319	122	36	15	13	26
5	14	89	49	45	e19	e21	288	108	32	23	11	22
6	14	84	24	34	e20	e21	318	100	29	55	9.3	19
7	14	98	44	35	e20	e21	386	93	29	28	7.6	17
8	13	62	e74	34	24	e22	413	97	25	20	6.6	16
9	13	38	76	e34	e40	e22	290	87	23	120	6.1	15
10	13	e30	57	e34	e38	e21	274	80	26	68	5.5	13
11	13	e28	83	e33	e31	e21	231	74	26	30	5.1	12
12	12	e27	78	33	e27	e21	183	74	24	21	4.5	11
13	12	e26	57	34	e25	e20	170	64	22	17	4.9	11
14	12	e25	44	e180	e24	e20	176	61	93	16	5.5	10
15	12	e24	29	e70	e28	e19	162	101	159	17	10	28
16	76	25	29	e48	33	19	164	136	104	13	7.9	29
17	47	25	e29	e42	e38	20	181	99	177	13	10	25
18	29	26	e28	e37	e30	21	181	74	422	13	6.6	80
19	23	30	e28	e34	e27	22	158	65	120	15	5.4	33
20	20	27	e27	e31	e26	23	192	59	71	19	5.1	24
21	19	29	e27	e29	e25	27	249	54	56	12	178	20
22	18	42	e27	e28	e24	30	136	94	57	10	40	16
23	17	34	e110	e27	24	30	277	80	43	9.6	20	14
24	16	31	e260	e26	e24	29	393	80	37	7.9	15	13
25	16	144	e86	e25	e23	34	224	59	32	7.3	12	12
26	16	90	e56	e24	e23	e31	165	57	28	7.6	10	17
27	15	45	e48	e24	e23	e36	154	67	25	55	8.5	57
28	15	77	e46	e23	e23	e60	292	60	23	53	10	26
29	14	146	e42	e22	---	e120	217	53	24	20	22	31
30	15	62	e40	e21	---	e170	175	65	28	13	18	41
31	20	---	e41	e20	---	e210	---	105	---	10	418	---
TOTAL	581	1,503	1,920	1,245	716	1,199	7,615	2,827	1,924	766.4	942.6	999
MEAN	18.7	50.1	61.9	40.2	25.6	38.7	254	91.2	64.1	24.7	30.4	33.3
MAX	76	146	260	180	40	210	647	258	422	120	418	263
MIN	12	21	24	20	19	19	136	53	22	7.3	4.5	10
CFSM	0.44	1.17	1.44	0.94	0.60	0.90	5.92	2.13	1.49	0.58	0.71	0.78
IN.	0.50	1.30	1.66	1.08	0.62	1.04	6.60	2.45	1.67	0.66	0.82	0.87

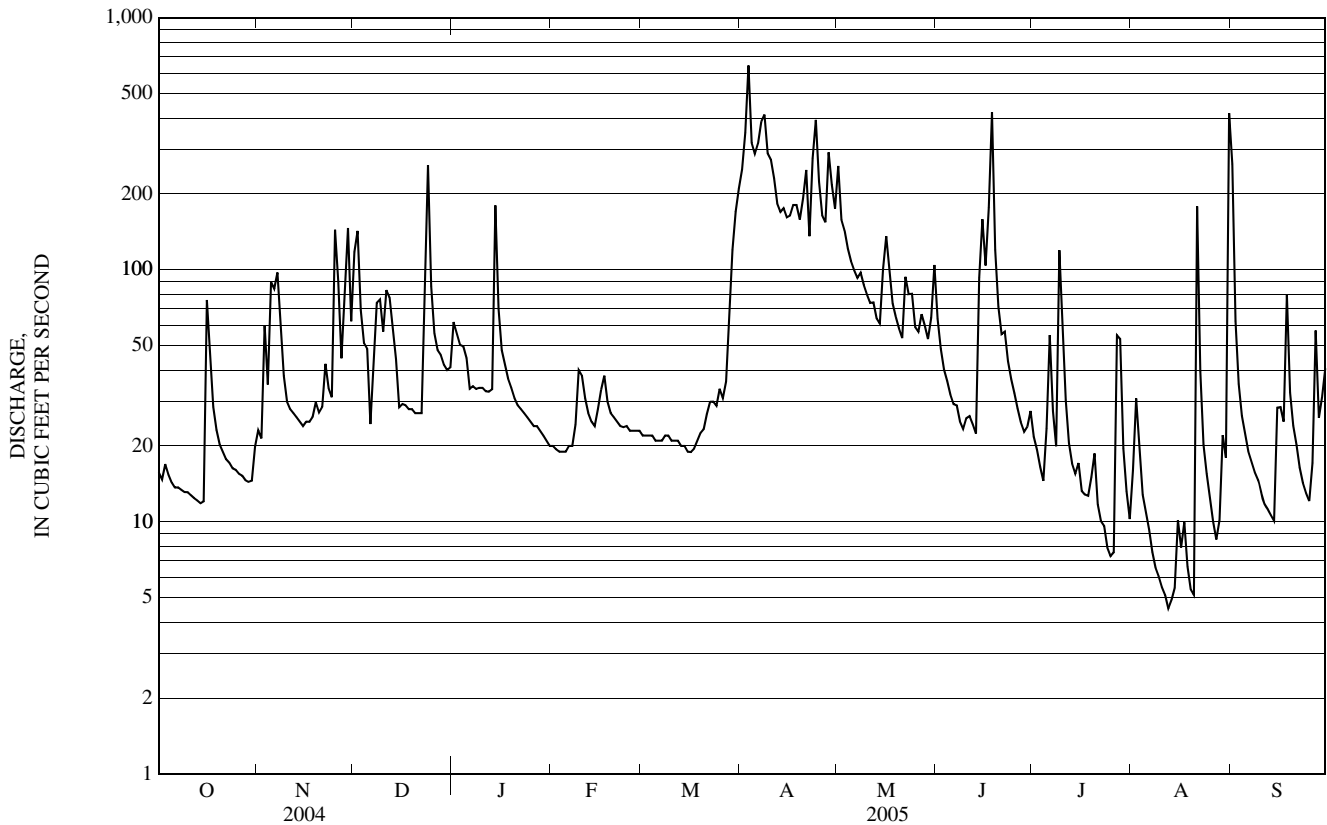
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)

MEAN	49.9	68.3	66.2	52.7	37.7	83.8	212	99.6	51.0	34.6	32.2	26.6
MAX	128	142	143	108	93.3	142	302	198	128	84.2	97.9	56.9
(WY)	(1991)	(2004)	(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)

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

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005	
ANNUAL TOTAL	22,326.4		22,238.0			
ANNUAL MEAN	61.0		60.9		67.8	
HIGHEST ANNUAL MEAN					93.2 1996	
LOWEST ANNUAL MEAN					42.8 1995	
HIGHEST DAILY MEAN	377	May 24	647	Apr 3	1,380	Aug 12, 1998
LOWEST DAILY MEAN	8.6	Aug 10	4.5	Aug 12	1.1	Aug 16, 2001
ANNUAL SEVEN-DAY MINIMUM	12	Aug 6	5.5	Aug 8	1.4	Sep 14, 2001
MAXIMUM PEAK FLOW			a 1,120	Aug 31	a 7,570	Aug 12, 1998
MAXIMUM PEAK STAGE			3.31	Aug 31	7.11	Aug 12, 1998
INSTANTANEOUS LOW FLOW			b 4.4	Aug 12	0.98	Aug 16, 2001
ANNUAL RUNOFF (CFSM)	1.42		1.42		1.58	
ANNUAL RUNOFF (INCHES)	19.36		19.28		21.49	
10 PERCENT EXCEEDS	143		163		155	
50 PERCENT EXCEEDS	37		29		38	
90 PERCENT EXCEEDS	15		13		11	

a From rating curve extended above 560 ft<sup>3</sup>/s on basis of theoretical weir formula.  
 b Also occurred on Aug. 14.  
 c Estimated.



## 01135500 PASSUMPSIC RIVER AT PASSUMPSIC, VT

LOCATION.--Lat 44° 21'56", long 72° 02'23", Caledonia County, Hydrologic Unit 01080102, on right bank, 0.7 mi upstream from Water Andric, 1.1 mi downstream from dam, bridge, and village of Passumpsic, 3.8 mi south of Town Hall in St. Johnsbury, 4.0 mi upstream from mouth, and 4.8 mi north of Post Office in Barnet.

DRAINAGE AREA.--436 mi<sup>2</sup>.

PERIOD OF RECORD.--Discharge records: October 1928 to current year. Monthly discharge only October 1928, published in WSP 1301.

REVISED RECORDS.--WSP 781: 1933(M), WSP 871: Drainage area. WSP 1231: 1929, 1930-31(M).

GAGE.--Water-stage recorder. Elevation of gage is 500 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1780, about 31.5 ft in November 1927, from information by local residents (discharge not determined).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Apr 3	----	*e7,250	ice jam	Apr 3	1700	ice jam	*15.04

Minimum daily discharge, 134 ft<sup>3</sup>/s, Aug. 20.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	232	338	1,020	e900	e325	e280	e2,070	2,230	1,110	566	260	3,760
2	231	283	1,990	e1,080	e305	e280	e2,970	1,730	844	383	282	1,800
3	225	525	1,250	e880	e295	e275	e6,200	1,450	645	328	370	812
4	215	538	e810	e730	e295	e275	4,850	1,250	539	281	355	501
5	206	634	e690	e620	e300	e275	3,040	1,100	472	293	265	405
6	211	843	e670	e570	e300	e270	2,910	1,010	418	923	217	339
7	205	892	e640	e530	e305	e280	3,540	932	396	591	198	298
8	205	824	e750	e510	e340	e290	4,410	942	339	388	189	269
9	203	620	e900	e500	e410	e310	3,510	892	317	1,020	165	262
10	201	402	718	e500	e470	e325	2,790	818	e540	1,700	151	248
11	200	416	802	e480	e450	e305	2,570	765	1,020	855	154	222
12	199	385	876	e470	e425	e285	1,940	845	552	481	169	215
13	199	323	715	e490	e400	e280	1,580	777	421	373	158	195
14	196	310	e580	e1,550	e370	e275	1,540	671	431	333	156	191
15	196	303	e490	e2,100	e355	e270	1,470	811	1,940	383	190	246
16	430	311	e560	e1,400	e375	e270	1,450	1,170	1,310	367	191	356
17	655	311	e530	e910	e400	e275	1,610	1,070	1,610	372	179	318
18	441	313	e640	e730	e415	e275	1,860	845	3,420	373	152	534
19	344	333	e570	e620	e385	e275	1,710	737	2,620	342	146	418
20	281	350	e470	e580	e355	e285	1,780	663	1,450	672	134	347
21	269	343	e530	e550	e320	e295	2,650	600	938	424	797	295
22	254	425	e580	e520	e305	e310	1,820	727	796	306	718	240
23	243	421	e600	e500	e305	e330	2,030	852	696	348	347	224
24	234	376	e3,000	e485	e300	e355	3,370	1,010	561	293	253	206
25	226	895	2,330	e465	e300	e395	3,030	845	480	254	229	188
26	223	1,580	e1,550	e455	e300	e420	2,260	694	416	233	195	205
27	217	804	e1,200	e435	e295	e485	1,700	772	366	341	172	615
28	213	719	e820	e410	e285	e620	2,070	777	339	1,240	172	500
29	211	1,760	e800	e390	---	e980	2,530	704	438	599	372	349
30	207	1,160	e790	e365	---	e1,300	1,980	885	815	356	471	511
31	227	---	e800	e345	---	e1,800	---	1,210	---	286	1,320	---
TOTAL	7,799	17,737	28,671	21,070	9,685	12,945	77,240	29,784	26,239	15,704	9,127	15,069
MEAN	252	591	925	680	346	418	2,575	961	875	507	294	502
MAX	655	1,760	3,000	2,100	470	1,800	6,200	2,230	3,420	1,700	1,320	3,760
MIN	196	283	470	345	285	270	1,450	600	317	233	134	188
CFSM	0.58	1.36	2.12	1.56	0.79	0.96	5.91	2.20	2.01	1.16	0.68	1.15
IN.	0.67	1.51	2.45	1.80	0.83	1.10	6.59	2.54	2.24	1.34	0.78	1.29

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2005, BY WATER YEAR (WY)

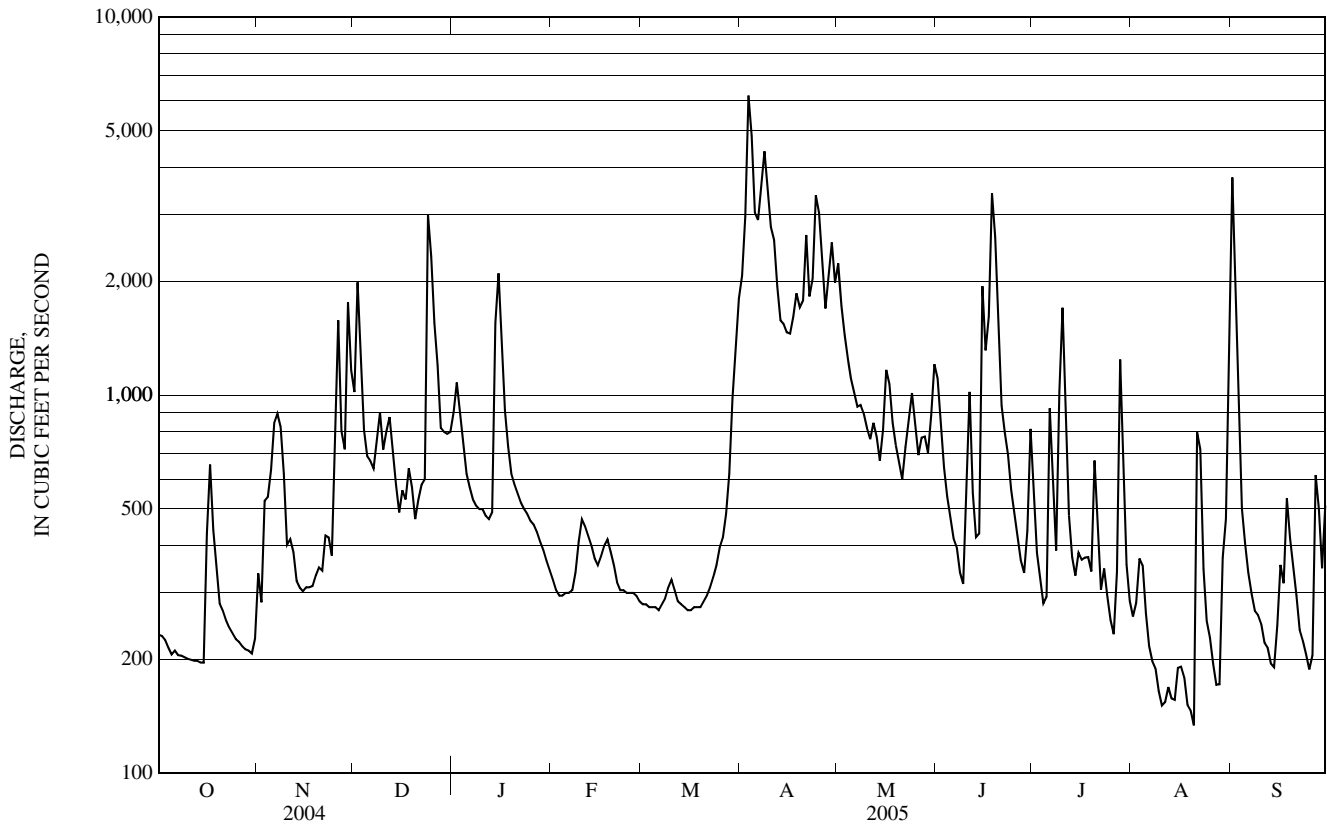
MEAN	525	706	621	498	423	933	2,257	1,330	655	407	340	353
MAX	1,522	1,667	1,919	1,255	2,280	4,013	3,931	3,082	1,846	1,519	963	1,126
(WY)	(1946)	(1960)	(1974)	(1978)	(1981)	(1936)	(1934)	(1972)	(1973)	(1973)	(1990)	(1954)
MIN	132	253	169	128	123	161	806	517	225	138	103	98.8
(WY)	(1948)	(1948)	(1948)	(1948)	(1980)	(1940)	(1995)	(1941)	(1988)	(1955)	(2001)	(1948)

CONNECTICUT RIVER BASIN

01135500 PASSUMPSIC RIVER AT PASSUMPSIC, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1929 - 2005	
ANNUAL TOTAL	261,517		271,070			
ANNUAL MEAN	715		743		753	
HIGHEST ANNUAL MEAN					1,153	1974
LOWEST ANNUAL MEAN					472	1965
HIGHEST DAILY MEAN	3,800	Apr 2	e 6,200	Apr 3	15,400	Mar 18, 1936
LOWEST DAILY MEAN	196	Aug 10	134	Aug 20	13	Sep 12, 1948
ANNUAL SEVEN-DAY MINIMUM	199	Oct 9	163	Aug 8	66	Sep 3, 1999
MAXIMUM PEAK FLOW			e 7,250	Apr 3	18,200	Jul 1, 1973
MAXIMUM PEAK STAGE			a 15.05	Apr 3	23.49	Jul 1, 1973
ANNUAL RUNOFF (CFSM)	1.64		1.70		1.73	
ANNUAL RUNOFF (INCHES)	22.31		23.13		23.48	
10 PERCENT EXCEEDS	1,540		1,720		1,680	
50 PERCENT EXCEEDS	484		438		430	
90 PERCENT EXCEEDS	243		214		169	

a Ice jam.  
e Estimated.



## 01135500 PASSUMPSIC RIVER AT PASSUMPSIC, VT—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953, 1956 to 1958, 1960, 1961, 1966 to 1978, 1980 to 1999, and current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
OCT														
05...	0945	212	10.6	97	8.3	257	11.6	.14	E.006	.169	E.007	E.004	.016	1
NOV														
03...	1600	637	12.3	101	8.1	222	6.6	.19	.015	.177	E.005	E.005	.015	1
DEC														
07...	1330	E640	12.5	86	7.5	175	.1	.20	.031	.275	<.008	<.006	.011	2
JAN														
05...	1700	E620	--	--	--	--	--	.14	.023	.317	E.005	<.006	.008	1
FEB														
02...	1615	E305	--	--	7.3	210	--	.19	.065	.413	<.008	.006	.014	1
MAR														
02...	1245	E280	--	--	7.3	228	--	.30	.108	.428	<.008	.006	.038	25
31...	1200	E1,590	--	--	7.5	164	--	.67	.208	.326	<.008	.022	.105	36
APR														
06...	1130	2,580	13.4	97	7.4	103	1.8	.52	.036	.238	<.008	E.003	.108	86
11...	1300	2,560	13.0	98	7.5	93	3.6	E.32	.016	.214	<.008	E.005	.078	102
19...	0715	1,800	12.1	97	7.3	101	5.2	.21	.015	.209	<.008	E.003	.046	46
MAY														
04...	1300	1,230	12.0	99	7.7	142	6.8	.13	.016	.201	<.008	<.006	.014	4
JUN														
14...	1545	356	8.0	93	7.8	216	22.2	.26	.024	.183	<.008	<.006	.018	3
JUL														
06...	1715	902	9.2	102	7.9	168	20.1	.31	.019	.177	<.008	<.006	.040	16
26...	1700	260	9.6	115	8.3	258	23.9	.17	E.005	.182	E.004	E.004	.017	2
AUG														
09...	0930	166	8.9	103	8.2	265	22.7	.25	.011	.204	E.006	E.004	.017	1

Remark codes used in this table:

&lt; -- Less than.

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 mi<sup>2</sup>.

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 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec 24	0115	3,700	7.40	Apr 24	1415	*7,160	*9.91
Apr 3	1230	4,760	8.17				

Minimum discharge, 39 ft<sup>3</sup>/s, Aug. 14, 20, gage height, 1.14 ft.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	60	902	236	85	e61	235	776	639	233	56	943
2	68	60	876	182	82	e60	297	584	474	160	62	246
3	65	169	396	e220	80	e58	2,540	500	389	125	73	145
4	63	128	289	215	82	e58	1,190	396	331	102	58	114
5	61	241	242	160	80	56	559	330	284	91	60	100
6	59	174	173	125	80	57	496	298	250	99	88	87
7	58	189	199	e130	79	58	728	293	242	111	56	79
8	58	191	211	e115	82	e67	950	347	206	90	48	72
9	55	137	185	e110	e92	e66	631	344	189	136	45	69
10	54	105	165	e111	96	e64	521	384	213	270	43	64
11	54	107	193	e99	e80	e63	485	507	223	218	42	60
12	56	99	192	e98	78	e62	332	732	194	142	40	58
13	55	86	160	e130	73	e61	269	405	165	111	40	54
14	53	74	139	e1,050	68	60	254	305	169	100	42	52
15	56	83	101	401	80	e58	245	398	321	229	72	80
16	123	82	100	232	e97	e56	257	556	257	137	55	84
17	118	79	e120	196	e130	e55	349	424	255	105	50	68
18	87	79	99	129	e95	e54	494	329	367	95	45	83
19	73	82	e118	e118	e85	e53	464	284	509	105	42	89
20	67	81	105	e131	e77	e55	921	257	279	144	40	73
21	64	88	e87	e104	70	e57	1,340	240	212	95	79	66
22	61	115	e115	e100	72	e58	559	433	214	83	81	60
23	59	107	e490	e116	68	e58	693	544	185	80	57	55
24	58	96	1,510	e110	66	e57	3,820	1,000	151	72	51	52
25	56	846	363	e105	64	e56	1,440	581	128	68	54	49
26	55	495	235	e102	62	e56	729	620	112	66	48	57
27	55	254	196	e95	62	e58	720	662	198	71	43	183
28	54	373	146	e91	61	e79	1,230	546	397	83	45	101
29	53	1,120	180	e90	---	e183	861	606	295	65	72	125
30	52	403	159	e99	---	e221	607	1,170	343	58	87	210
31	60	---	167	92	---	232	---	937	---	54	272	---
TOTAL	1,981	6,203	8,613	5,292	2,226	2,297	24,216	15,788	8,191	3,598	1,946	3,578
MEAN	63.9	207	278	171	79.5	74.1	807	509	273	116	62.8	119
MAX	123	1,120	1,510	1,050	130	232	3,820	1,170	639	270	272	943
MIN	52	60	87	90	61	53	235	240	112	54	40	49
CFSM	0.73	2.36	3.17	1.95	0.91	0.85	9.21	5.81	3.12	1.32	0.72	1.36
IN.	0.84	2.63	3.66	2.25	0.95	0.98	10.28	6.70	3.48	1.53	0.83	1.52

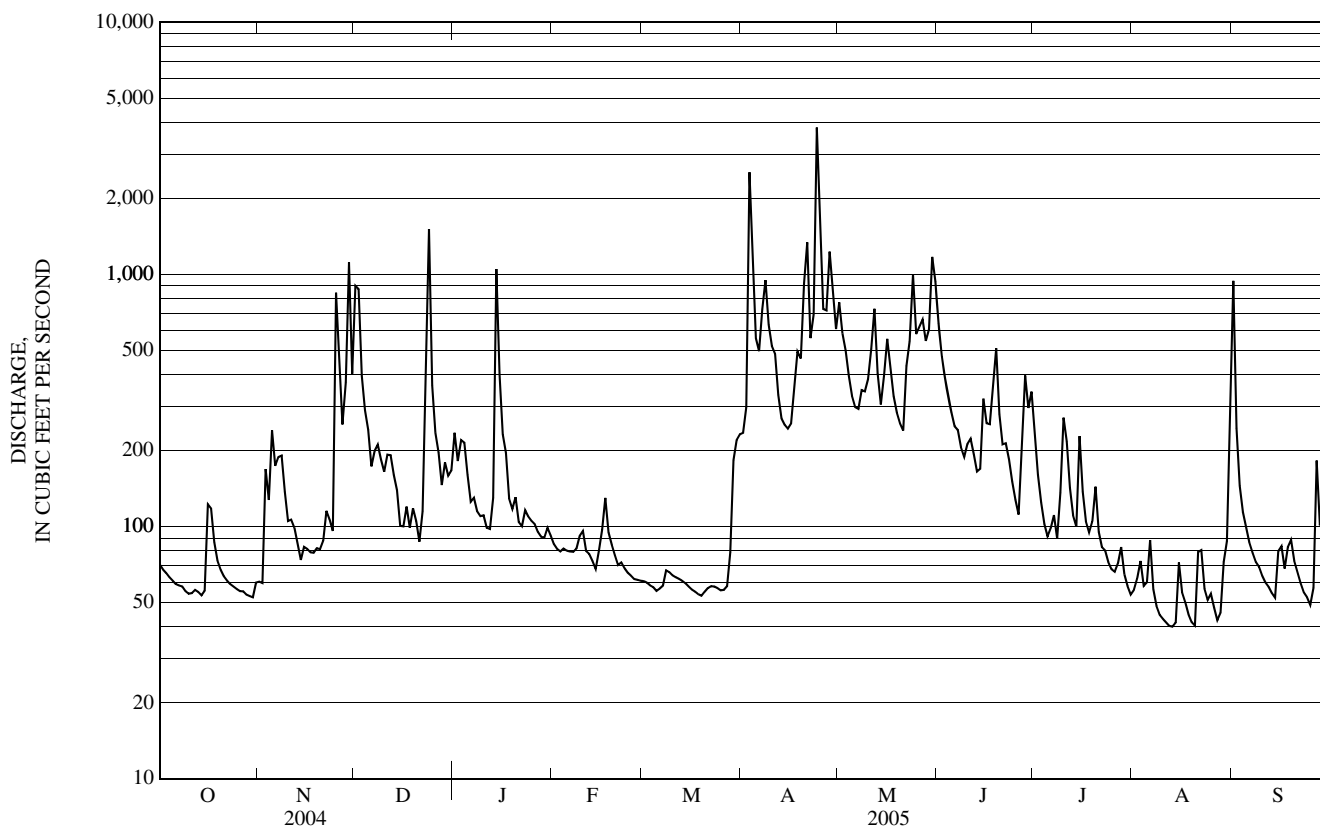
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005, BY WATER YEAR (WY)

MEAN	157	221	174	121	104	188	517	503	204	105	93.2	99.8
MAX	416	524	590	438	712	691	896	1,054	462	308	273	550
(WY)	(1978)	(1960)	(1974)	(1996)	(1981)	(1953)	(1969)	(1940)	(1973)	(1996)	(1990)	(1954)
MIN	34.1	59.0	44.9	30.9	31.9	47.3	176	221	91.5	39.0	25.6	32.5
(WY)	(1948)	(1979)	(1948)	(1948)	(1980)	(1940)	(1995)	(1993)	(1953)	(1991)	(2001)	(1948)

01137500 AMMONOOSUC RIVER AT BETHLEHEM JUNCTION, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939 - 2005	
ANNUAL TOTAL	69,364		83,929		208	
ANNUAL MEAN	190		230		131	
HIGHEST ANNUAL MEAN					323	
LOWEST ANNUAL MEAN					195	
HIGHEST DAILY MEAN	1,510	Dec 24	3,820	Apr 24	6,300	Mar 27, 1953
LOWEST DAILY MEAN	e 50	Feb 29	a 40	Aug 12	19	Aug 26, 2001
ANNUAL SEVEN-DAY MINIMUM	54	Feb 24	43	Aug 8	22	Aug 21, 2001
MAXIMUM PEAK FLOW			7,160	Apr 24	b 11,300	Nov 12, 1995
MAXIMUM PEAK STAGE			9.91	Apr 24	c 12.34	Nov 12, 1995
INSTANTANEOUS LOW FLOW			d 39	Aug 14	16	Nov 14, 1952
ANNUAL RUNOFF (CFSM)	2.16		2.62		2.37	
ANNUAL RUNOFF (INCHES)	29.46		35.64		32.19	
10 PERCENT EXCEEDS	418		550		460	
50 PERCENT EXCEEDS	106		105		108	
90 PERCENT EXCEEDS	60		55		46	

- a Also occurred Aug. 13, 20.
- b From rating curve extended above 4,100 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.
- c From floodmarks in well.
- d Also occurred on Aug. 20.
- e Estimated.





## 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 mi<sup>2</sup>.

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 except those for estimated daily discharges, which are poor. 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 ft<sup>3</sup>.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 57,100 ft<sup>3</sup>/s, July 1, 1973, gage height, 17.35 ft, from peak-stage indicator; minimum daily discharge 152 ft<sup>3</sup>/s, August 28, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30,300 ft<sup>3</sup>/s, Apr. 24, gage height, 9.78 ft; minimum daily discharge, 1,330 ft<sup>3</sup>/s, Aug. 20.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,110	1,940	9,950	3,700	2,240	3,600	e6,900	17,200	12,300	5,420	1,590	11,500
2	2,000	1,910	13,600	4,190	2,200	4,160	10,000	15,000	10,700	4,550	3,480	11,100
3	1,800	2,250	11,300	6,080	2,260	4,420	22,000	12,900	7,770	3,140	2,450	6,160
4	1,750	2,490	6,560	5,720	2,010	3,650	19,300	11,500	5,170	2,520	3,050	3,770
5	1,720	2,710	4,330	4,800	1,970	2,530	16,500	9,050	4,310	2,490	2,410	3,280
6	1,990	3,140	5,420	4,570	2,400	2,070	17,500	6,590	4,140	3,620	1,590	3,260
7	1,780	2,890	3,120	3,310	2,120	2,000	21,200	6,660	4,130	2,860	1,590	1,620
8	1,710	2,840	3,260	3,740	2,070	3,450	22,700	6,020	4,530	3,470	1,950	1,670
9	1,730	2,590	4,010	2,910	2,290	3,440	21,300	6,290	3,750	3,800	1,480	2,950
10	1,710	2,270	4,160	3,600	2,440	e2,290	19,500	6,470	4,400	6,160	1,940	1,650
11	1,700	2,180	5,640	3,010	e2,350	e2,140	17,300	6,530	5,750	6,510	1,640	1,460
12	1,680	2,190	4,590	2,780	2,230	2,210	14,100	6,870	3,600	5,640	1,460	2,720
13	1,700	2,020	3,930	3,790	e2,140	2,040	12,100	7,190	4,640	4,970	1,450	2,240
14	1,700	1,950	3,450	e7,080	2,380	2,060	11,200	5,900	4,520	5,230	1,430	1,860
15	1,680	1,990	2,780	9,240	2,270	2,010	9,070	5,950	10,200	6,640	1,490	2,800
16	2,210	1,990	3,010	9,790	e2,480	2,000	7,130	7,790	14,200	3,540	1,500	1,960
17	2,720	2,060	3,230	7,590	3,020	2,580	7,940	7,600	14,100	3,740	1,470	1,920
18	2,340	2,040	4,160	6,690	3,640	2,030	9,610	7,210	17,600	5,890	1,350	2,090
19	2,120	2,010	3,370	4,960	2,780	2,010	10,900	6,370	19,600	4,470	1,370	2,190
20	2,860	2,030	5,640	5,070	2,350	2,010	11,500	5,110	14,700	2,120	1,330	2,290
21	2,300	2,070	4,890	7,020	2,270	2,050	17,000	4,660	8,460	1,890	2,190	2,350
22	1,880	2,120	2,510	8,430	e2,690	3,000	16,400	4,820	6,090	2,920	2,470	2,050
23	1,740	2,420	2,920	3,450	2,580	3,420	14,500	7,670	5,720	1,880	1,520	1,650
24	1,880	2,100	10,000	e5,010	3,450	4,110	21,700	11,200	4,630	1,650	1,850	1,440
25	1,780	4,310	5,780	e2,840	3,310	2,290	23,600	11,400	3,880	1,690	1,520	1,400
26	1,760	6,260	3,970	e3,560	3,430	2,340	19,200	8,070	3,980	1,980	1,480	1,500
27	1,750	4,450	4,370	e2,790	4,130	2,850	15,900	6,330	3,810	2,730	1,440	2,520
28	1,710	4,600	4,340	e2,720	3,880	e3,970	16,500	7,760	2,450	2,880	1,400	2,200
29	1,690	9,670	3,400	e2,840	---	4,530	17,400	7,920	3,580	2,200	2,810	3,100
30	1,690	9,750	3,210	2,590	---	e4,310	16,900	8,110	4,380	1,480	2,380	2,500
31	1,700	---	3,180	2,690	---	e5,230	---	11,800	---	1,440	3,500	---
TOTAL	58,890	93,240	154,080	146,560	73,380	90,800	466,850	253,940	217,090	109,520	58,580	89,200
MEAN	1,900	3,108	4,970	4,728	2,621	2,929	15,560	8,192	7,236	3,533	1,890	2,973
MAX	2,860	9,750	13,600	9,790	4,130	5,230	23,600	17,200	19,600	6,640	3,500	11,500
MIN	1,680	1,910	2,510	2,590	1,970	2,000	6,900	4,660	2,450	1,440	1,330	1,400

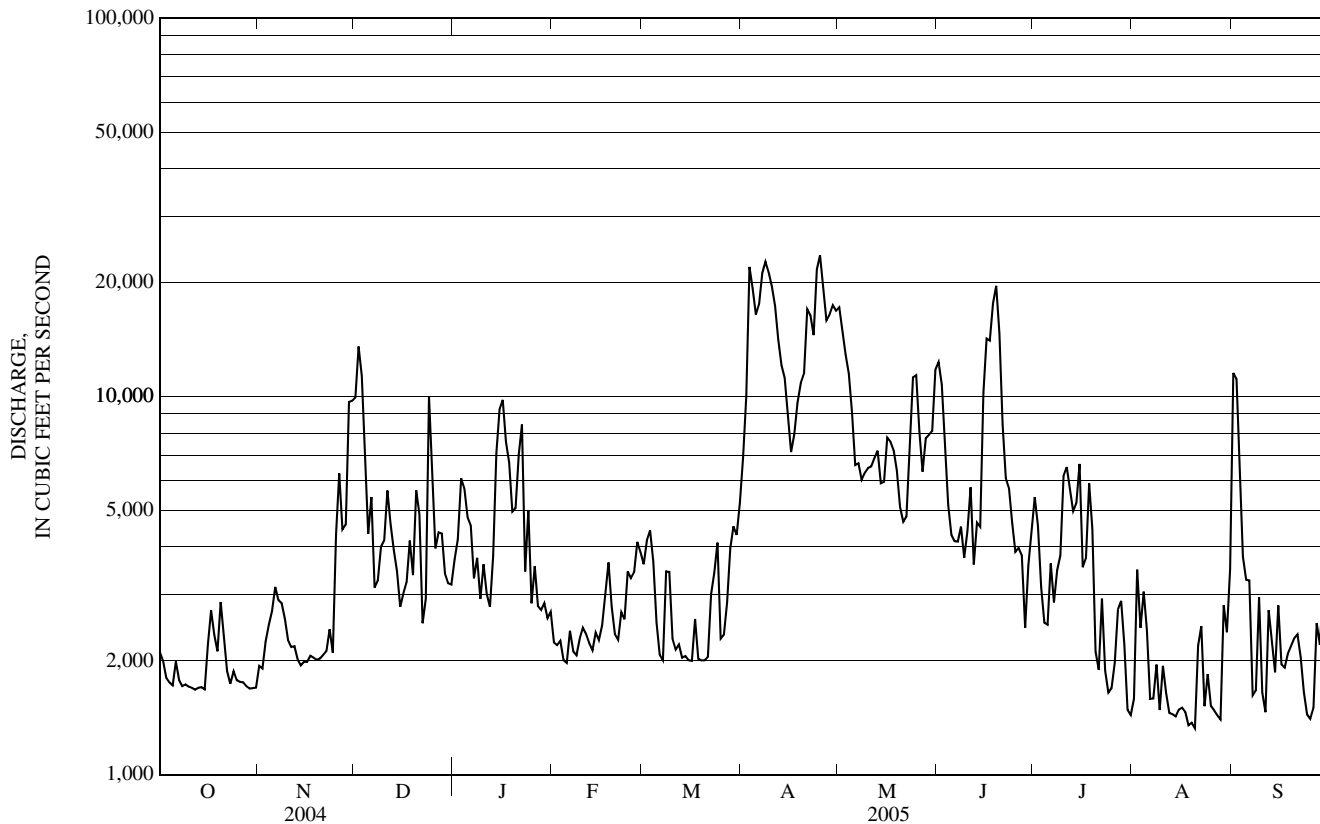
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2005, BY WATER YEAR (WY)

MEAN	3,697	4,807	4,719	3,826	3,761	5,840	12,670	8,368	4,484	2,853	2,510	2,550
MAX	9,801	9,815	11,320	7,717	10,050	13,420	20,110	17,120	10,450	8,566	6,709	10,810
(WY)	(1978)	(1960)	(1974)	(1996)	(1981)	(1979)	(1954)	(1972)	(2002)	(1996)	(1990)	(1954)
MIN	1,226	2,008	1,445	1,632	1,824	2,492	3,634	3,479	1,906	1,206	1,013	883
(WY)	(1964)	(1979)	(1979)	(1981)	(1980)	(1962)	(1995)	(1987)	(1988)	(1991)	(1970)	(1978)

01138500 CONNECTICUT RIVER AT WELLS RIVER, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1950 - 2005	
ANNUAL TOTAL	1,671,640		1,812,130		5,012	
ANNUAL MEAN	4,567		4,965		7,355	
HIGHEST ANNUAL MEAN					3,211 1996	
LOWEST ANNUAL MEAN					50,600 1965	
HIGHEST DAILY MEAN	20,200	Apr 2	23,600	Apr 25	57,100	Mar 27, 1953
LOWEST DAILY MEAN	1,450	Jun 29	1,330	Aug 20	152	Aug 28, 1960
ANNUAL SEVEN-DAY MINIMUM	1,650	Jun 27	1,420	Aug 14	522	Aug 1, 1955
MAXIMUM PEAK FLOW			30,300	Apr 24	57,100	Jul 1, 1973
MAXIMUM PEAK STAGE			9.78	Apr 24	a 17.35	Jul 1, 1973
10 PERCENT EXCEEDS	9,690		11,300		10,400	
50 PERCENT EXCEEDS	3,380		3,230		3,580	
90 PERCENT EXCEEDS	1,730		1,700		1,300	

a From peak stage indicator.  
e Estimated.



## 01138500 CONNECTICUT RIVER AT WELLS RIVER, VT—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952, 1957, 1960, 1961, 1967, 1968, 1970, 1975, 1979 to 1999, and current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
OCT														
05...	1145	1,760	10.0	99	7.5	95	14.8	.24	.014	.110	<.008	<.006	.010	1
NOV														
03...	1430	2,360	9.8	86	7.4	113	9.6	.22	.010	.162	<.008	<.006	.008	1
DEC														
07...	0930	2,920	11.4	85	6.9	75	2.9	.27	.016	.180	<.008	<.006	.010	2
JAN														
04...	1230	6,450	13.2	92	7.0	86	1.8	.20	.020	.192	E.005	<.006	.009	3
FEB														
01...	1400	2,060	13.7	94	6.8	92	.1	.21	.031	.261	<.008	<.006	.036	337
MAR														
02...	1515	5,930	13.4	94	6.7	77	.7	.21	.028	.266	<.008	<.006	.011	2
31...	1345	E4,510	15.2	110	6.9	119	2.3	.40	.080	.261	<.008	.006	.109	95
APR														
06...	1345	19,100	13.2	96	7.1	84	2.3	.46	.034	.242	<.008	<.006	.087	71
11...	1145	17,300	13.6	99	7.1	63	2.2	E.29	.027	.196	<.008	.006	.041	19
18...	1545	11,900	11.5	94	7.4	85	5.7	.26	.022	.203	<.008	<.006	.032	18
MAY														
04...	1000	11,200	12.2	99	6.9	58	6.5	.20	.021	.148	<.008	<.006	.022	7
JUN														
14...	1015	2,280	9.1	94	6.6	71	16.8	.23	.012	.112	<.008	<.006	.013	2
JUL														
06...	1315	5,090	8.9	96	6.9	90	19.0	.27	.021	.116	<.008	<.006	.015	4
26...	1500	1,640	8.4	99	7.5	112	23.0	.24	.010	.118	<.008	<.006	.010	3
AUG														
08...	1500	2,850	7.7	91	7.2	84	23.2	.26	.015	.131	<.008	<.006	.007	2

Remark codes used in this table:

&lt; -- Less than.

E -- Estimated.

## 01139000 WELLS RIVER AT WELLS RIVER, VT

LOCATION.--Lat 44°09'01", long 72°03'56", Orange County, Hydrologic Unit 01080103, on right bank, 0.8 mi west of village of Wells River, 1.3 mi southeast of I-91 and US 302 intersection in Four Corners, and 1.5 mi upstream from mouth.

DRAINAGE AREA.--98.4 mi<sup>2</sup>.

PERIOD OF RECORD.--Discharge records: August 1940 to current year.

REVISED RECORDS.--WSP 1171: Drainage area. WSP 1201: 1942(P), 1944-45(M), 1946-47(P), 1948(M), 1950.

GAGE.--Water-stage recorder. Datum of gage is 505.53 ft above National Geodetic Vertical Datum of 1929 (levels by Connecticut River Power Co.).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some diurnal fluctuation at low flow prior to 1958 and since June 1984 caused by small power plant upstream. Flow partly regulated by Groton and Ricker Ponds.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 980 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec 24	0530	1,070	4.50	Apr 3	1700	*1,670	*5.30

Minimum daily discharge, 22 ft<sup>3</sup>/s, Aug. 12, 13, 19, 20.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	50	289	150	e83	e64	438	551	238	75	35	397
2	46	48	469	e142	e78	e64	606	406	183	73	51	201
3	45	97	259	157	e74	e62	1,390	337	148	64	45	119
4	44	82	192	163	e77	e61	1,120	290	127	55	38	78
5	42	136	164	137	e78	e60	715	256	109	50	35	58
6	40	140	105	e123	e78	e59	673	234	95	54	36	46
7	39	110	128	e115	e81	e58	744	220	106	60	31	39
8	41	90	166	e106	e85	e63	815	233	90	54	27	36
9	43	73	165	e102	e96	e66	682	211	96	204	25	33
10	42	60	140	e98	e100	e70	575	194	180	255	24	31
11	42	61	196	e94	e93	e66	513	183	125	159	23	29
12	41	61	215	e91	e88	e62	400	182	123	106	22	26
13	40	53	173	91	e84	e60	346	164	112	77	22	25
14	37	47	141	330	e83	58	329	147	146	64	23	25
15	37	51	95	276	e90	56	303	171	419	70	34	40
16	160	50	e96	202	e97	e53	284	224	319	57	31	54
17	131	50	e110	e172	e117	e51	290	218	384	50	27	45
18	88	52	e96	e154	e103	e52	297	181	745	46	25	70
19	71	54	e105	e143	e95	52	278	166	501	46	22	55
20	63	52	e94	e133	e86	55	287	149	305	43	22	45
21	58	66	e100	e121	e74	59	451	137	224	39	81	42
22	54	81	e105	e117	e79	67	318	205	200	38	81	36
23	52	69	e180	e112	e74	70	427	226	163	96	54	32
24	50	63	e630	e108	e70	68	844	250	135	52	42	30
25	48	216	274	e107	e69	73	676	192	113	41	36	27
26	47	228	202	e104	e65	e81	466	168	99	38	31	29
27	46	131	171	e103	e64	e92	393	180	86	41	27	94
28	45	118	e135	e100	e63	e120	802	164	82	77	27	56
29	43	273	e140	e93	---	e254	656	161	84	54	119	44
30	43	173	131	e92	---	e286	465	172	89	43	98	61
31	47	---	127	e88	---	361	---	239	---	37	230	---
TOTAL	1,672	2,835	5,593	4,124	2,324	2,723	16,583	6,811	5,826	2,218	1,424	1,903
MEAN	53.9	94.5	180	133	83.0	87.8	553	220	194	71.5	45.9	63.4
MAX	160	273	630	330	117	361	1,390	551	745	255	230	397
MIN	37	47	94	88	63	51	278	137	82	37	22	25
CFSM	0.55	0.96	1.83	1.35	0.84	0.89	5.62	2.23	1.97	0.73	0.47	0.64
IN.	0.63	1.07	2.11	1.56	0.88	1.03	6.27	2.57	2.20	0.84	0.54	0.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

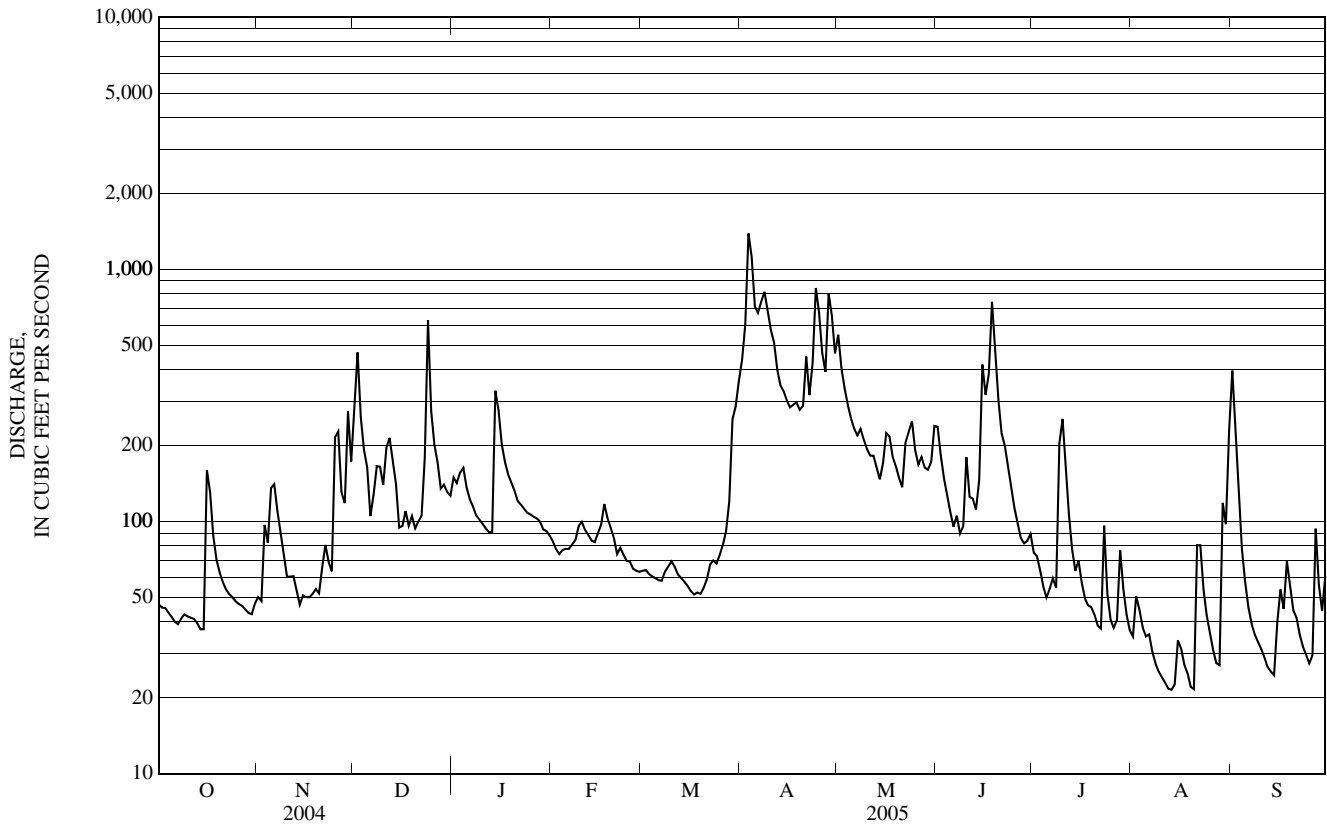
MEAN	96.6	131	123	97.1	92.5	187	451	255	135	77.6	64.0	60.4
MAX	337	339	395	285	349	467	764	589	449	323	305	196
(WY)	(1982)	(2004)	(1984)	(1996)	(1981)	(1953)	(1952)	(1972)	(1973)	(1973)	(1990)	(1981)
MIN	16.3	37.6	36.3	23.2	22.1	49.5	137	82.2	38.9	25.2	12.4	17.7
(WY)	(1964)	(1971)	(1948)	(1948)	(1980)	(1941)	(1995)	(1965)	(1995)	(1965)	(2001)	(2001)

CONNECTICUT RIVER BASIN

01139000 WELLS RIVER AT WELLS RIVER, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	51,366		54,036			
ANNUAL MEAN	140		148		147	
HIGHEST ANNUAL MEAN					239 1990	
LOWEST ANNUAL MEAN					66.5 1965	
HIGHEST DAILY MEAN	783	May 24	1,390	Apr 3	2,960	Jul 1, 1973
LOWEST DAILY MEAN	29	Aug 10	a 22	Aug 12	7.9	Sep 20, 2001
ANNUAL SEVEN-DAY MINIMUM	36	Aug 6	24	Aug 8	8.4	Sep 14, 2001
MAXIMUM PEAK FLOW			1,670	Apr 3	b 5,970	Jun 30, 1973
MAXIMUM PEAK STAGE			5.30	Apr 3	9.82	Jun 30, 1973
ANNUAL RUNOFF (CFSM)	1.43		1.50		1.50	
ANNUAL RUNOFF (INCHES)	19.42		20.43		20.36	
10 PERCENT EXCEEDS	289		318		341	
50 PERCENT EXCEEDS	94		91		83	
90 PERCENT EXCEEDS	47		38		29	

- a Also occurred on August 13, 19, 20.
- b From rating curve extended above 1,600 ft<sup>3</sup>/s on basis of peak flow over dam.
- c Estimated.



01139800 EAST ORANGE BRANCH AT EAST ORANGE, VT

LOCATION.--Lat 44° 05'34", long 72° 20'10", Orange County, Hydrologic Unit 01080103, on left bank, 0.3 mi east of East Orange Road and Fish Pond Road intersection in East Orange, 1.7 mi upstream from mouth, 2.0 mi southwest of West Topsham, 5.0 mi southwest of Orange, and 11.0 mi southeast of Barre.

DRAINAGE AREA.--8.95 mi<sup>2</sup>.

PERIOD OF RECORD.--Discharge records: June 1958 to current year.

REVISED RECORDS.--WDR MA-NH-RI-VT-72-I: 1960-64(P), 1969-71(P).

GAGE.--Water-stage recorder. Elevation of gage is 1,180 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Occasional diurnal fluctuation at low flow caused by mill upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 140 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec 23	----	e250	ice jam	Apr 3	----	*e315	ice jam
Dec 29	1130	ice jam	*3.22	Apr 24	0830	238	2.79

Minimum discharge, 1.3 ft<sup>3</sup>/s, on several days, gage height, 0.90 ft.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	6.7	25	e21	8.0	6.8	e25	58	e20	6.9	2.8	13
2	8.6	7.4	15	e18	8.0	6.7	e45	47	e14	7.2	2.5	4.6
3	8.9	12	12	e20	7.8	6.5	e128	43	e13	5.9	2.1	3.0
4	8.2	8.4	e11	e15	7.9	6.5	57	40	12	5.3	1.9	2.5
5	8.4	14	e11	e14	7.8	6.4	55	38	11	5.0	4.8	2.2
6	8.4	9.3	e11	e13	8.0	6.4	65	35	12	5.4	3.2	2.0
7	8.4	8.2	e12	e14	8.1	6.4	75	34	12	6.9	2.2	1.8
8	8.2	7.4	e19	e12	10	6.7	87	32	9.8	6.1	1.8	1.7
9	7.7	6.9	13	e12	12	6.9	75	30	10	30	1.7	1.9
10	7.5	e6.5	12	e11	10	6.4	81	29	10	17	1.5	1.6
11	7.9	6.9	17	e10	9.4	6.3	68	27	9.5	10	1.4	1.6
12	7.8	6.6	14	e10	8.9	6.4	62	26	9.3	7.0	1.3	1.5
13	7.6	e6.5	13	e11	8.5	6.3	59	23	8.7	6.0	1.7	1.4
14	7.4	e6.2	e14	e26	e8.0	6.3	59	22	24	5.8	2.1	1.4
15	8.0	6.2	e15	e22	e8.5	6.3	54	27	20	11	4.4	5.6
16	18	6.2	e14	e18	10	6.3	55	27	16	5.8	2.2	3.6
17	10	6.3	e14	e15	11	6.3	56	22	25	5.6	1.8	3.7
18	8.7	6.6	e13	e13	e9.5	e6.5	51	20	21	5.3	1.5	3.1
19	8.1	6.6	e12	e12	e9.0	e6.8	49	19	15	4.8	1.4	2.4
20	7.8	6.1	e10	e11	e8.0	e7.4	56	18	12	4.1	2.2	2.4
21	7.6	11	e10	e11	e7.0	e8.0	55	17	11	3.6	12	2.3
22	7.4	9.7	e10	e10	e7.0	e9.0	44	26	14	3.3	3.6	1.9
23	7.4	7.3	e64	e10	e7.0	9.2	75	28	10	3.8	2.6	2.0
24	7.1	8.6	e28	e9.5	e7.0	9.3	109	24	9.4	2.9	2.2	2.1
25	7.1	26	e25	e9.5	7.1	9.7	57	19	8.3	2.7	1.9	2.0
26	7.0	12	e23	e9.5	7.1	10	50	19	7.7	2.7	1.6	4.3
27	6.9	e9.5	e21	9.1	6.8	e12	71	19	7.3	4.4	1.5	7.8
28	6.7	19	e19	8.7	6.6	e14	75	e17	7.1	4.8	2.5	3.4
29	6.6	16	e17	8.4	---	e17	53	e16	7.7	3.0	11	4.7
30	6.7	10	e15	8.4	---	e18	60	e20	8.0	2.5	4.4	4.5
31	7.3	---	e16	8.2	---	e22	---	e27	---	2.3	24	---
TOTAL	252.1	280.1	525	400.3	234.0	268.8	1,911	849	374.8	197.1	111.8	96.0
MEAN	8.13	9.34	16.9	12.9	8.36	8.67	63.7	27.4	12.5	6.36	3.61	3.20
MAX	18	26	64	26	12	22	128	58	25	30	24	13
MIN	6.6	6.1	10	8.2	6.6	6.3	25	16	7.1	2.3	1.3	1.4
CFSM	0.91	1.04	1.89	1.44	0.93	0.97	7.12	3.06	1.40	0.71	0.40	0.36
IN.	1.05	1.16	2.18	1.66	0.97	1.12	7.94	3.53	1.56	0.82	0.46	0.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2005, BY WATER YEAR (WY)

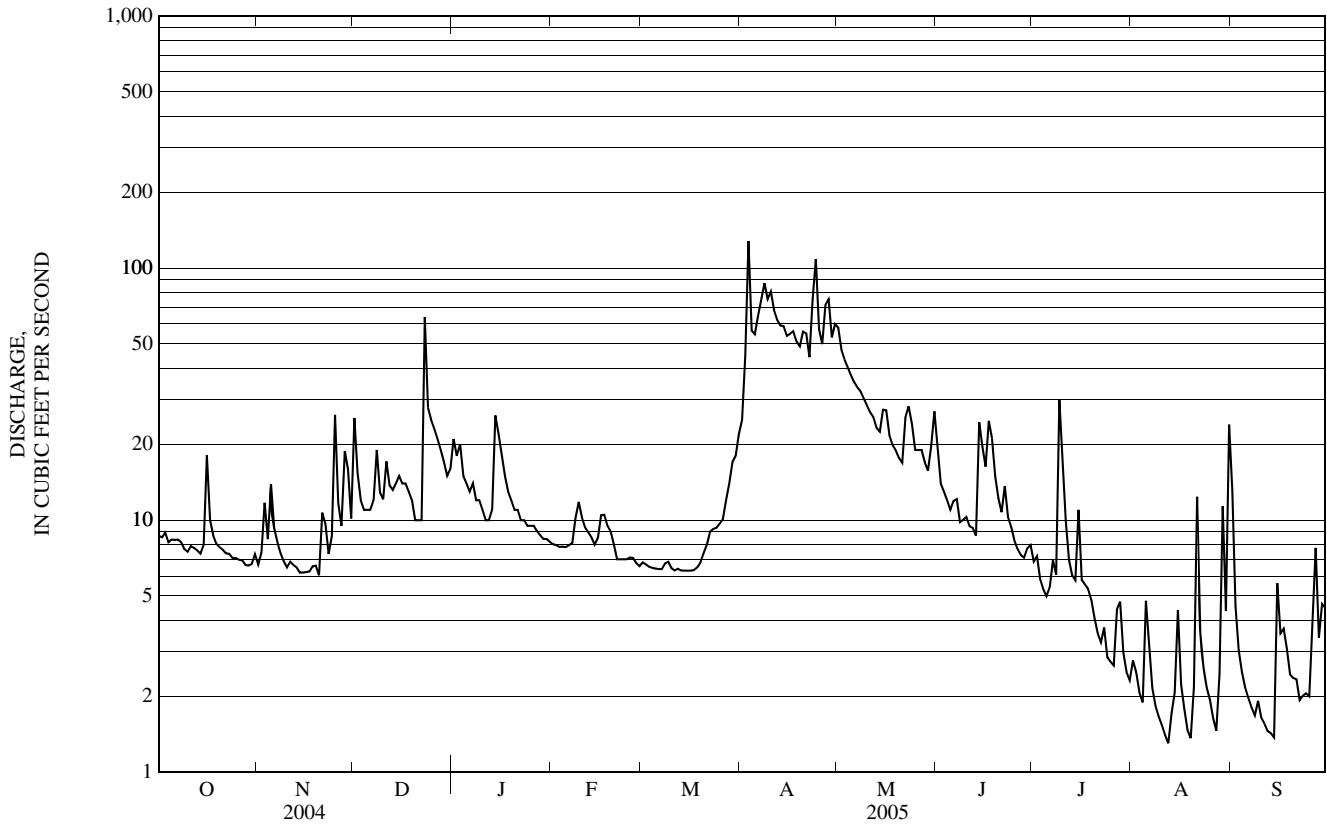
	9.83	13.7	13.3	10.1	9.09	17.2	50.0	33.5	13.8	7.22	5.59	5.33
MEAN												
MAX	35.5	33.3	41.0	26.6	46.0	47.0	91.2	75.7	41.1	41.0	25.5	14.9
(WY)	(1976)	(2004)	(1984)	(1978)	(1981)	(1976)	(1969)	(1971)	(1973)	(1973)	(1990)	(1976)
MIN	1.14	3.41	2.91	2.53	1.90	3.56	16.3	11.4	4.87	1.63	1.15	0.40
(WY)	(1964)	(1979)	(1964)	(1971)	(1964)	(2001)	(1995)	(1995)	(1995)	(1963)	(1970)	(1963)

CONNECTICUT RIVER BASIN

01139800 EAST ORANGE BRANCH AT EAST ORANGE, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1958 - 2005	
ANNUAL TOTAL	5,260.8		5,500.0			
ANNUAL MEAN	14.4		15.1		15.7	
HIGHEST ANNUAL MEAN					29.1	1976
LOWEST ANNUAL MEAN					6.71	1965
HIGHEST DAILY MEAN	a 64	May 24	e 128	Apr 3	260	May 4, 1971
LOWEST DAILY MEAN	2.5	Jul 29	1.3	Aug 12	0.20	Sep 3, 1963
ANNUAL SEVEN-DAY MINIMUM	3.4	Jul 25	1.6	Sep 8	0.21	Sep 6, 1963
MAXIMUM PEAK FLOW			e 315	Apr 3	bc 800	Jul 23, 1990
MAXIMUM PEAK STAGE			d 3.22	Dec 29	d 6.35	Jan 22, 1959
INSTANTANEOUS LOW FLOW			f 1.3	Aug 11	g 0.10	Sep 9, 1963
ANNUAL RUNOFF (CFSM)	1.61		1.68		1.76	
ANNUAL RUNOFF (INCHES)	21.87		22.86		23.88	
10 PERCENT EXCEEDS	32		34		39	
50 PERCENT EXCEEDS	10		8.9		8.5	
90 PERCENT EXCEEDS	5.5		2.4		2.3	

- a Also occurred on Dec. 23.
- b From rating curve extended above 160 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.
- c From floodmarks.
- d Ice jam.
- e Estimated.
- f Also occurred on Aug. 12, 19, 20, 28 and Sep. 14, 15.
- g Also occurred on September 19, 1963.



## 01142500 AYERS BROOK AT RANDOLPH, VT

LOCATION.--Lat 43° 56'04", long 72° 39'30", Orange County, Hydrologic Unit 01080105, on right bank, 135 ft upstream from bridge on State Highway 12, just north of village limits of Randolph, 0.4 mi upstream from Adams Brook, 0.7 mi upstream from mouth, and 0.9 mi northeast of Town Hall in Randolph.

DRAINAGE AREA.--30.5 mi<sup>2</sup>.

PERIOD OF RECORD.--Discharge records: July 1939 to September 1975, June 1976 to current year.

REVISED RECORDS.--WDR MA-NH-RI-VT-72-I: 1949(M), 1952(M), 1953(P), 1958(P), 1960(M), 1967(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 630.50 ft (Vermont State Department of Highways datum). Prior to October 1, 1964, at site 140 ft downstream at datum 2.25 ft higher and October 1, 1964, to September 30, 1975, at site 140 ft downstream at datum 1.25 ft higher.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1830, about 18 ft, present datum, in November 1927.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 350 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec 24	0200	357	4.78	Apr 5	1900	390	4.91
Apr 2	1745	585	5.62	Apr 8	0200	405	4.97
Apr 3	1200	*955	*6.74	Apr 24	0930	423	5.04

Minimum discharge, 6.2 ft<sup>3</sup>/s, Aug. 20, gage height, 2.22 ft.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	16	109	79	e27	e22	242	201	70	27	17	97
2	21	15	134	61	e26	e22	334	149	53	33	33	35
3	22	22	85	71	e26	e21	714	131	46	25	18	24
4	21	19	e60	65	e25	e21	429	115	42	22	15	20
5	20	30	e57	e54	e25	e22	321	103	38	21	15	17
6	19	25	63	e51	e25	e22	309	94	40	22	e14	16
7	19	21	56	e47	e26	e21	325	87	50	24	e11	15
8	18	19	71	e44	e27	e24	357	83	36	22	e10	14
9	18	18	68	e43	e28	e22	291	76	35	94	e9.8	14
10	17	17	60	e44	e29	e24	253	69	53	83	e9.6	e11
11	17	18	81	e41	e29	e23	221	64	38	39	e9.2	e10
12	17	18	76	e41	e28	e23	182	58	33	30	e8.5	e9.6
13	16	16	66	e41	e26	e23	160	53	33	26	8.9	e9.1
14	16	16	e55	126	e23	e23	144	51	37	24	11	e9.0
15	17	16	e52	e76	e29	e23	130	61	52	23	19	e17
16	39	16	e45	e69	e31	e23	120	72	57	20	12	e14
17	28	16	e46	e47	e32	e22	117	57	150	20	9.3	e15
18	23	16	e39	e37	e27	e22	113	51	105	31	8.0	e13
19	20	17	e42	e38	e26	e22	103	49	74	24	7.1	e12
20	19	16	e35	e40	e24	e23	100	45	61	20	8.8	e11
21	18	26	e31	e39	e23	e25	129	42	53	18	41	e10
22	18	24	e38	e36	e24	e28	93	54	58	20	21	e9.8
23	18	20	58	e36	e23	e29	182	60	48	35	15	e9.6
24	17	20	190	e35	e22	e27	331	73	42	21	12	e9.6
25	17	99	e130	e34	e22	e30	225	56	38	18	10	e10
26	16	66	e80	e33	e22	e31	170	51	34	16	8.8	e14
27	16	43	e70	e32	e23	e35	175	52	31	19	8.1	e24
28	16	55	e53	e31	e22	69	255	48	29	23	8.9	e14
29	15	80	e60	e30	---	98	178	45	30	18	15	e16
30	15	54	e54	e29	---	111	170	43	31	15	13	e17
31	16	---	e52	e28	---	159	---	86	---	14	77	---
TOTAL	592	854	2,116	1,478	720	1,090	6,873	2,279	1,497	847	484.0	516.7
MEAN	19.1	28.5	68.3	47.7	25.7	35.2	229	73.5	49.9	27.3	15.6	17.2
MAX	39	99	190	126	32	159	714	201	150	94	77	97
MIN	15	15	31	28	22	21	93	42	29	14	7.1	9.0
CFSM	0.63	0.93	2.24	1.56	0.84	1.15	7.51	2.41	1.64	0.90	0.51	0.56
IN.	0.72	1.04	2.58	1.80	0.88	1.33	8.38	2.78	1.83	1.03	0.59	0.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005, BY WATER YEAR (WY)

MEAN	27.1	40.1	43.0	35.0	32.7	74.6	163	77.6	39.1	20.8	15.7	15.5
MAX	102	125	151	96.8	136	189	289	173	142	85.5	64.0	48.9
(WY)	(1946)	(2004)	(1984)	(1996)	(1981)	(1979)	(1969)	(1972)	(1947)	(1973)	(1989)	(1981)
MIN	2.29	4.71	8.84	8.54	8.27	14.0	46.7	23.4	7.32	2.05	1.90	1.91
(WY)	(1964)	(2002)	(2002)	(2002)	(1940)	(1940)	(1995)	(1941)	(1965)	(1965)	(1965)	(1963)

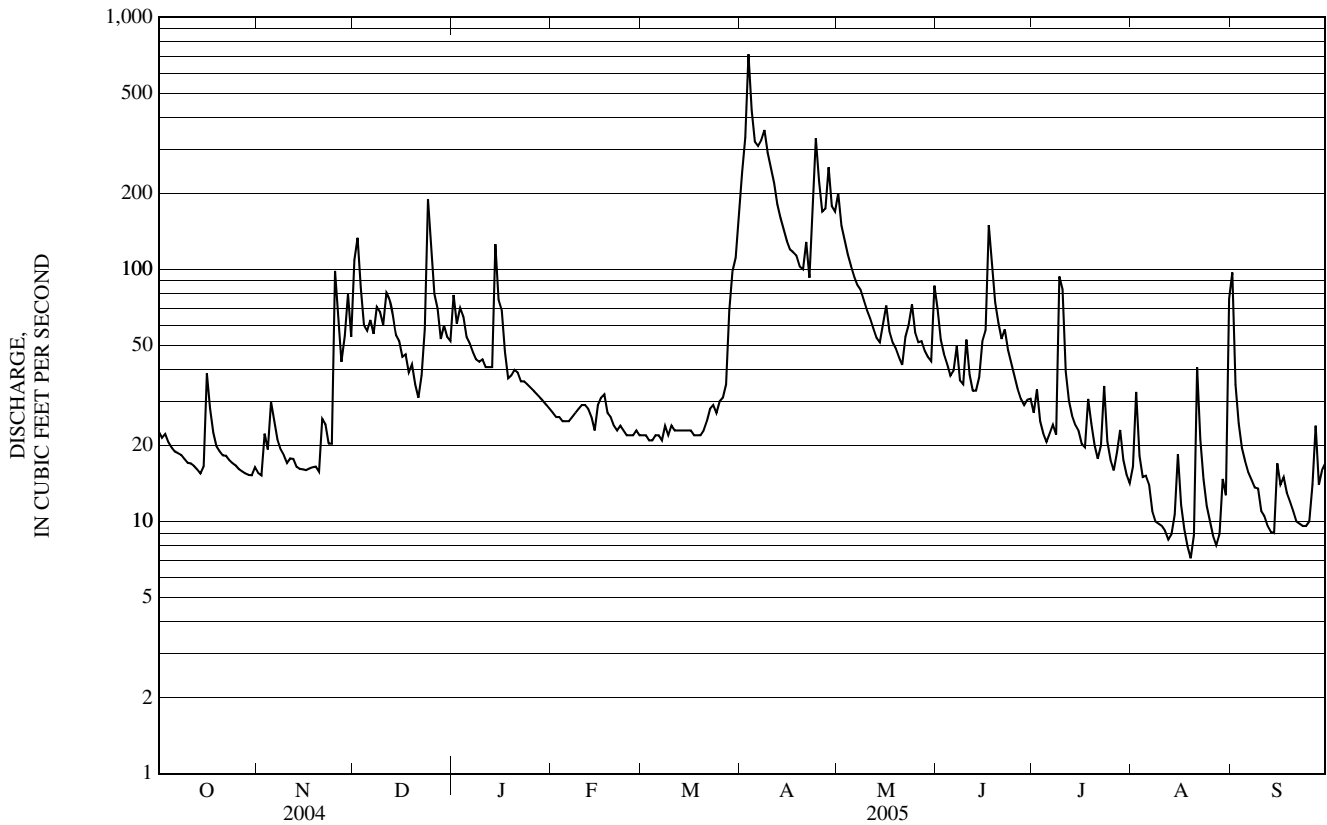


CONNECTICUT RIVER BASIN

01142500 AYERS BROOK AT RANDOLPH, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939 - 2005	
ANNUAL TOTAL	16,843		19,346.7		48.5	
ANNUAL MEAN	46.0		53.0		78.4	
HIGHEST ANNUAL MEAN					1973	
LOWEST ANNUAL MEAN					16.7	
HIGHEST DAILY MEAN	261	Apr 2	714	Apr 3	1,550	Jun 27, 1998
LOWEST DAILY MEAN	11	Aug 10	7.1	Aug 19	0.80	Aug 2, 1965
ANNUAL SEVEN-DAY MINIMUM	14	Jul 12	9.6	Aug 7	0.97	Jul 27, 1965
MAXIMUM PEAK FLOW			955	Apr 3	a 3,480	Jun 27, 1998
MAXIMUM PEAK STAGE			6.74	Apr 3	11.93	Jun 27, 1998
INSTANTANEOUS LOW FLOW			6.2	Aug 20	0.60	Jul 27, 1965
ANNUAL RUNOFF (CFSM)	1.51		1.74		1.59	
ANNUAL RUNOFF (INCHES)	20.54		23.60		21.61	
10 PERCENT EXCEEDS	94		114		110	
50 PERCENT EXCEEDS	32		29		27	
90 PERCENT EXCEEDS	16		14		6.8	

a From rating curve extended above 1,500 ft<sup>3</sup>/s on basis of contracted-opening measurement at gage height 10.37 ft.  
 e Estimated.



01142500 AYERS BROOK AT RANDOLPH, VT—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to 1999 and current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
OCT														
04...	0830	20	10.0	89	7.5	262	10.1	E.07	.012	.321	<.008	<.006	.007	1
NOV														
03...	1230	25	11.7	96	7.6	252	6.7	E.08	E.005	.381	<.008	<.006	.006	2
DEC														
06...	1515	65	13.9	95	7.3	193	.1	E.07	E.006	.475	<.008	<.006	.014	12
JAN														
05...	0800	E55	13.2	--	7.1	209	1.2	E.09	E.008	.514	E.006	<.006	.024	21
31...	0815	E28	11.7	80	7.0	213	.0	E.08	.010	.560	<.008	<.006	.011	9
FEB														
28...	0750	E22	12.7	--	6.9	225	.0	E.06	.013	.558	<.008	<.006	.006	4
APR														
01...	0700	283	14.7	104	7.2	140	.6	1.3	.111	.473	<.008	.009	.71	776
06...	1700	310	12.0	99	7.4	155	6.5	.65	.017	.420	<.008	E.003	.36	540
11...	1600	209	12.5	101	7.5	149	6.2	E.38	<.010	.354	<.008	E.004	.25	345
18...	1245	113	11.5	96	7.6	169	7.4	.11	E.007	.346	<.008	<.006	.044	45
MAY														
03...	0745	132	12.8	100	7.7	177	4.9	E.06	E.007	.348	<.008	<.006	.043	42
JUN														
06...	0730	35	--	--	7.6	240	--	E.09	<.010	.347	<.008	<.006	E.003	4
JUL														
05...	0645	20	8.8	93	7.7	261	18.0	E.07	.015	.330	<.008	E.003	.004	2
26...	0700	16	9.0	97	7.7	270	19.0	.14	.017	.291	<.008	<.006	.009	3
AUG														
08...	0700	E10	11.0	121	7.7	287	19.8	.14	.022	.360	<.008	<.006	.016	7

Remark codes used in this table:

&lt; -- Less than.

E -- Estimated.

CONNECTICUT RIVER BASIN

01144000 WHITE RIVER AT WEST HARTFORD, VT

LOCATION.--Lat 43° 42'51", long 72° 25'07", Windsor County, Hydrologic Unit 01080105, on left bank, 700 ft upstream from Quechee West Hartford Road bridge at West Hartford, 0.2 mi south of the State Highway 14 and Tigertown Road intersection in West Hartford, 5.1 mi south of State Highways 14 and 132 intersection in Sharon, 5.5 mi west of Post Office in Norwich, and 7.4 mi upstream from mouth.

DRAINAGE AREA.--690 mi<sup>2</sup>.

PERIOD OF RECORD.--Discharge records: June 1915 to current year. October 1927 to September 1928 monthly discharge only, published in WSP 1301.

REVISED RECORDS.--WSP 756: Drainage area. WSP 781: 1928(M). WSP 1031: 1916(m), 1923. WSP 1301: 1916-26(M), 1929(M).

GAGE.--Water-stage recorder. Datum of gage is 374.53 ft above National Geodetic Vertical Datum of 1929. Prior to October 30, 1927, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some diurnal fluctuation at low flow during period 1934-50 caused by power plant upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120,000 ft<sup>3</sup>/s, November 4, 1927, gage height, 29.3 ft, from floodmarks, from rating curve extended above 29,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; minimum observed, about 35 ft<sup>3</sup>/s, August 4, 1918; minimum daily discharge, 54 ft<sup>3</sup>/s, September 27, 28, 1963. Stage and discharge of the flood of November 4, 1927, are the greatest since at least 1761.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11,600 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Apr 3	1330	*23,100	*14.39	No other peak greater than base discharge.			

Minimum discharge, 159 ft<sup>3</sup>/s, Aug. 19, 20, gage height, 2.85 ft.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	435	311	2,410	e1,430	e690	628	6,270	4,440	1,600	645	267	2,120
2	414	304	5,060	1,590	e652	606	7,550	3,380	1,250	642	544	899
3	399	370	2,550	1,640	e646	564	17,600	2,940	1,080	584	442	544
4	390	512	1,900	1,900	e640	515	10,300	2,560	963	505	320	409
5	370	547	1,590	1,580	e628	532	6,550	2,280	850	469	274	340
6	355	635	e1,130	e1,220	e646	554	6,100	2,050	771	480	253	299
7	345	530	e1,160	e1,120	e652	551	7,000	1,880	941	499	240	268
8	341	487	1,430	e1,010	681	584	8,240	1,780	793	479	217	245
9	334	439	1,670	e965	732	e610	6,550	1,650	741	1,210	204	234
10	325	396	1,380	e1,070	913	e652	5,290	1,500	1,560	2,050	193	223
11	314	389	1,570	e934	869	702	4,750	1,390	1,170	1,090	182	208
12	308	394	1,800	e882	e710	697	3,760	1,280	1,030	725	173	198
13	302	370	1,530	929	e652	650	3,230	1,160	1,530	588	170	189
14	300	e308	e1,290	4,870	e566	629	2,920	1,110	1,260	522	177	180
15	303	e322	e845	3,430	663	634	2,680	1,250	1,900	e543	245	258
16	481	e331	e837	e1,930	780	622	2,470	1,560	1,820	473	261	454
17	652	e322	e833	e1,650	1,120	607	2,420	1,380	4,230	428	210	326
18	509	e328	e751	e1,030	923	620	2,480	1,170	4,710	470	182	345
19	435	345	e808	e797	e646	606	2,340	1,090	2,760	477	164	315
20	398	335	e758	e976	e610	620	2,250	1,000	1,990	461	164	281
21	375	416	e501	e924	605	657	3,120	927	1,590	389	227	295
22	359	551	e707	e819	594	730	2,330	1,120	1,450	348	510	265
23	349	483	e1,000	913	e635	802	3,350	1,490	1,270	462	318	227
24	339	441	e5,470	e894	e543	727	8,970	1,920	1,070	405	266	204
25	329	1,320	2,490	e861	e580	780	6,500	1,850	916	335	223	191
26	319	2,300	e1,430	e845	e591	796	4,230	1,560	794	309	198	195
27	312	1,360	e1,160	e829	598	841	3,670	1,510	764	303	179	406
28	307	1,090	e858	e784	597	e1,280	5,560	1,340	788	380	179	426
29	303	2,180	e1,180	e755	---	e3,290	4,210	1,240	673	358	252	326
30	300	1,560	e1,070	e734	---	e3,360	3,360	1,250	731	293	379	360
31	303	---	e1,010	e713	---	3,740	---	1,720	---	265	344	---
TOTAL	11,305	19,676	48,178	40,024	19,162	29,186	156,050	52,777	42,995	17,187	7,957	11,230
MEAN	365	656	1,554	1,291	684	941	5,202	1,702	1,433	554	257	374
MAX	652	2,300	5,470	4,870	1,120	3,740	17,600	4,440	4,710	2,050	544	2,120
MIN	300	304	501	713	543	515	2,250	927	673	265	164	180
CFSM	0.53	0.95	2.25	1.87	0.99	1.36	7.54	2.47	2.08	0.80	0.37	0.54
IN.	0.61	1.06	2.60	2.16	1.03	1.57	8.41	2.85	2.32	0.93	0.43	0.61

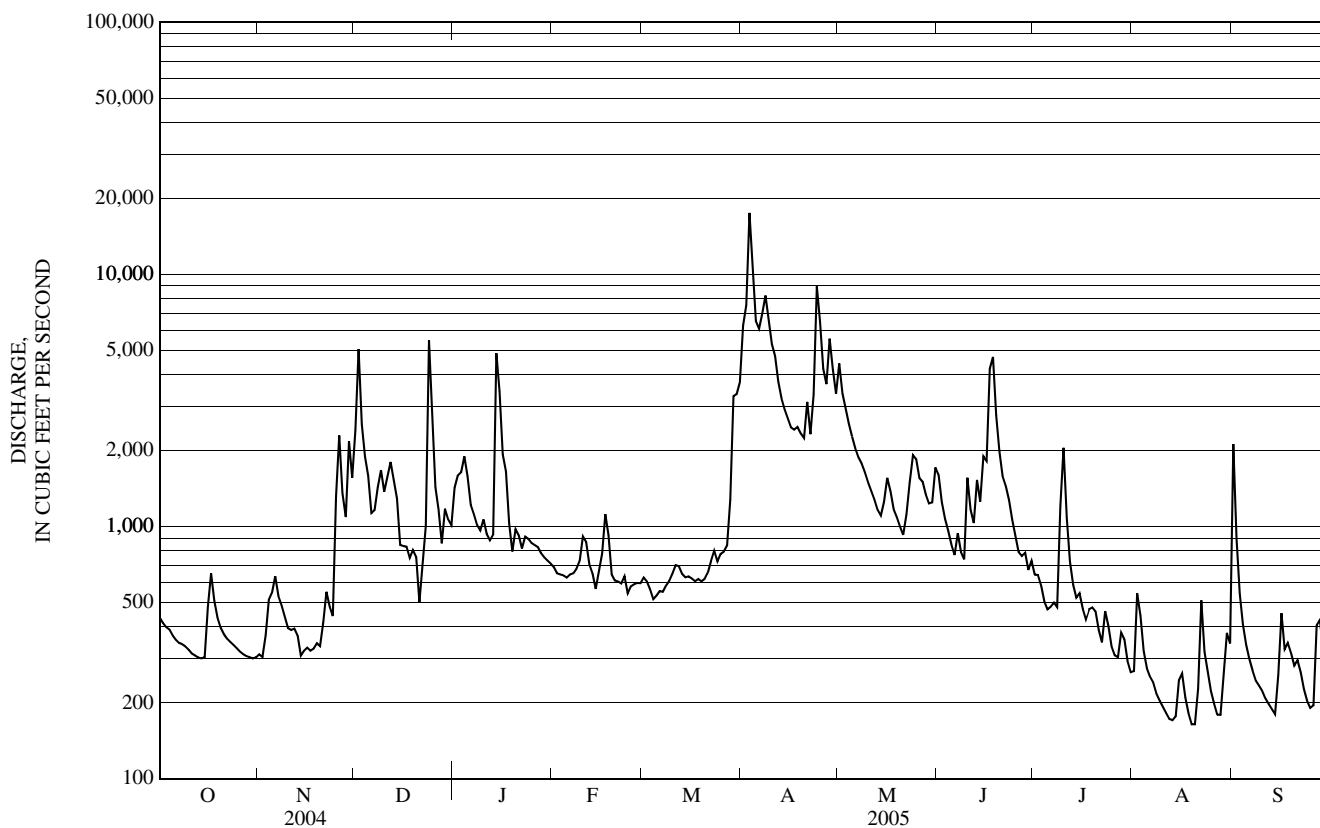
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2005, BY WATER YEAR (WY)

	670	1,024	1,029	859	791	1,890	3,894	1,971	908	498	381	407
MAX (WY)	(1946)	(2004)	(1984)	(1996)	(1981)	(1936)	(1969)	(1940)	(1947)	(1996)	(1976)	(1938)
MIN (WY)	80.0	204	237	197	169	222	1,131	634	224	108	90.5	77.5
	(1964)	(2002)	(1923)	(1925)	(1940)	(1940)	(1995)	(1941)	(1921)	(1965)	(1965)	(1963)

01144000 WHITE RIVER AT WEST HARTFORD, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1915 - 2005	
ANNUAL TOTAL	416,584		455,727		1,192	
ANNUAL MEAN	1,138		1,249		1,910	
HIGHEST ANNUAL MEAN					1976	
LOWEST ANNUAL MEAN					494	
HIGHEST DAILY MEAN	7,200	Apr 2	17,600	Apr 3	31,300	Mar 18, 1936
LOWEST DAILY MEAN	a 300	Oct 14	b 164	Aug 19	c 54	Sep 27, 1963
ANNUAL SEVEN-DAY MINIMUM	306	Oct 27	188	Aug 8	59	Sep 22, 1963
MAXIMUM PEAK FLOW			23,100	Apr 3	d 120,000	Nov 4, 1927
MAXIMUM PEAK STAGE			14.39	Apr 3	f 29.30	Nov 4, 1927
INSTANTANEOUS LOW FLOW			g 159	Aug 19	h 35	Aug 4, 1918
ANNUAL RUNOFF (CFSM)	1.65		1.81		1.73	
ANNUAL RUNOFF (INCHES)	22.46		24.57		23.47	
10 PERCENT EXCEEDS	2,340		2,710		2,700	
50 PERCENT EXCEEDS	750		690		636	
90 PERCENT EXCEEDS	350		267		190	

- a Also occurred on October 30.
- b Also occurred on August 20.
- c Also occurred on September 28, 1963.
- d From rating curve extended above 29,000 ft<sup>3</sup>/s as explained above.
- e Estimated.
- f From floodmarks.
- g Also occurred on August 20.
- h About.



01144000 WHITE RIVER AT WEST HARTFORD, VT—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953, 1956 to 1958, 1961, 1966 to 1999, and current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
OCT														
04...	0945	396	10.4	99	8.1	194	13.0	E.09	E.005	.150	<.008	<.006	.004	<1
NOV														
03...	1100	337	11.8	99	8.1	213	7.4	E.06	E.005	.192	<.008	<.006	<.004	<1
DEC														
08...	0800	1,290	12.9	89	7.3	124	.1	.11	E.008	.272	<.008	<.006	.006	2
JAN														
04...	1430	1,830	13.7	93	7.5	125	.4	.21	E.009	.273	E.007	<.006	.052	58
FEB														
02...	0945	E729	13.1	90	7.3	150	.1	E.08	.019	.383	<.008	<.006	.005	1
MAR														
03...	0845	587	13.4	91	7.3	153	.1	E.10	.028	.381	<.008	<.006	.010	<1
APR														
01...	0915	7,280	14.1	101	7.1	86	1.4	.81	.077	.282	<.008	.008	.60	752
07...	0745	7,220	12.8	98	7.1	89	4.1	.38	E.009	.261	<.008	<.006	.32	452
11...	0815	5,030	12.2	95	7.3	97	4.8	E.29	E.006	.275	<.008	E.003	.22	271
18...	1115	2,570	11.5	97	7.7	129	7.9	.11	E.005	.272	<.008	<.006	.035	34
MAY														
03...	0945	2,990	11.8	97	7.8	125	6.9	E.07	E.009	.224	<.008	<.006	.026	23
JUN														
06...	1430	755	8.5	93	8.0	188	20.3	.19	E.008	.149	<.008	<.006	E.002	<1
JUL														
06...	0830	478	8.8	101	8.1	212	22.2	.11	E.007	.226	<.008	<.006	.007	3
26...	0915	313	8.3	98	8.1	214	23.2	E.09	E.005	.186	<.008	<.006	.004	1
AUG														
08...	1700	216	8.0	102	8.2	217	27.0	.13	.010	.170	<.008	<.006	E.004	<1

Remark codes used in this table:

&lt; -- Less than.

E -- Estimated.

## 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 mi<sup>2</sup>.

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. Peak streamflow: Water years 1912 to 1976, 1979 to current year. Water-quality discrete samples: Water years 1954, 1961, 1967, 1968, 1970, 1975, 1976, 1979 to 1999.

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 ft<sup>3</sup>.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 136,000 ft<sup>3</sup>/s, November 4, 1927, gage height, 35.0 ft, present site; minimum daily discharge 82 ft<sup>3</sup>/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, 51,600 ft<sup>3</sup>/s, Apr. 3, gage height, 19.34 ft; minimum daily discharge, 909 ft<sup>3</sup>/s, Aug. 12.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,950	2,410	13,300	6,130	e2,520	4,480	17,900	24,700	16,400	5,600	2,350	10,900
2	4,240	3,480	21,700	7,350	e2,740	5,660	21,500	21,800	14,100	4,700	5,220	13,800
3	2,330	3,530	17,300	7,610	e3,330	e5,010	42,900	18,400	12,100	5,900	3,640	8,070
4	2,070	3,610	12,000	8,440	e3,910	e5,500	42,500	16,200	6,120	3,980	3,760	4,710
5	2,690	4,100	6,510	8,040	4,010	e4,150	32,700	13,500	6,290	3,910	1,750	3,650
6	2,710	5,180	e7,910	6,640	3,070	e2,210	29,100	10,100	5,800	4,220	1,650	4,170
7	2,880	5,050	e6,560	6,030	3,820	3,880	33,000	9,710	5,830	3,390	1,750	2,230
8	2,250	4,030	5,170	4,790	3,380	5,500	36,100	8,460	5,780	4,100	2,180	1,600
9	2,140	3,580	7,970	5,270	3,310	e4,160	34,700	9,330	5,620	5,620	1,470	3,460
10	1,760	3,450	6,600	4,940	4,040	e2,280	30,700	9,260	8,350	8,730	2,120	2,120
11	2,180	2,970	7,250	4,930	e5,670	e3,280	27,400	8,960	10,200	9,670	2,440	1,650
12	3,270	3,770	9,710	4,260	e2,500	e3,150	22,000	8,580	6,430	7,590	909	3,430
13	2,520	3,230	7,270	5,820	3,120	e2,920	18,000	9,240	8,070	5,390	1,900	3,280
14	2,150	2,440	6,100	12,700	5,250	e3,030	15,300	7,720	6,980	6,370	1,160	2,320
15	2,940	3,590	6,160	15,900	3,170	3,060	14,700	7,790	13,200	6,430	977	4,110
16	3,680	2,480	4,710	13,000	3,950	3,140	12,100	10,300	18,900	5,110	2,090	1,540
17	4,580	3,010	5,010	11,000	5,210	4,950	11,600	11,200	22,100	4,440	1,820	1,940
18	4,420	2,600	5,720	8,830	5,940	3,050	12,200	9,250	25,200	7,200	2,130	2,000
19	3,450	2,680	4,580	e5,780	e3,600	2,100	14,700	8,390	26,400	5,200	1,450	2,570
20	4,330	3,460	8,770	e6,160	e4,030	2,910	14,800	7,400	22,700	3,490	1,430	3,180
21	2,770	2,600	6,530	e8,000	e3,850	3,950	21,300	6,750	14,300	2,820	2,230	3,200
22	2,710	3,700	4,560	e6,690	3,950	3,110	21,600	5,430	9,530	2,960	3,340	2,670
23	2,660	5,210	e5,380	e5,350	3,830	4,950	21,500	9,950	8,500	2,720	2,210	2,830
24	3,030	4,440	e17,900	e6,220	e4,030	5,340	30,200	13,600	5,560	2,150	1,990	1,600
25	3,340	4,390	13,500	4,470	5,090	4,240	35,900	15,900	5,580	3,920	1,470	1,760
26	1,790	11,000	6,290	6,340	4,440	3,550	30,300	13,100	5,700	3,300	2,380	1,760
27	1,840	8,580	6,460	e4,020	4,870	5,360	24,900	7,480	5,510	3,270	1,680	1,630
28	2,260	7,330	e5,430	e4,400	5,310	7,550	26,300	9,790	4,550	1,690	1,710	3,360
29	2,820	12,100	6,350	e4,090	---	11,900	24,600	9,950	5,240	2,850	3,290	3,020
30	1,990	12,900	5,880	e3,780	---	11,300	23,800	10,200	5,550	1,640	4,700	3,060
31	2,110	---	5,710	e3,880	---	12,500	---	13,700	---	1,600	3,930	---
TOTAL	86,860	140,900	254,290	210,860	111,940	148,170	744,300	346,140	316,590	139,960	71,126	105,620
MEAN	2,802	4,697	8,203	6,802	3,998	4,780	24,810	11,170	10,550	4,515	2,294	3,521
MAX	4,580	12,900	21,700	15,900	5,940	12,500	42,900	24,700	26,400	9,670	5,220	13,800
MIN	1,760	2,410	4,560	3,780	2,500	2,100	11,600	5,430	4,550	1,600	909	1,540

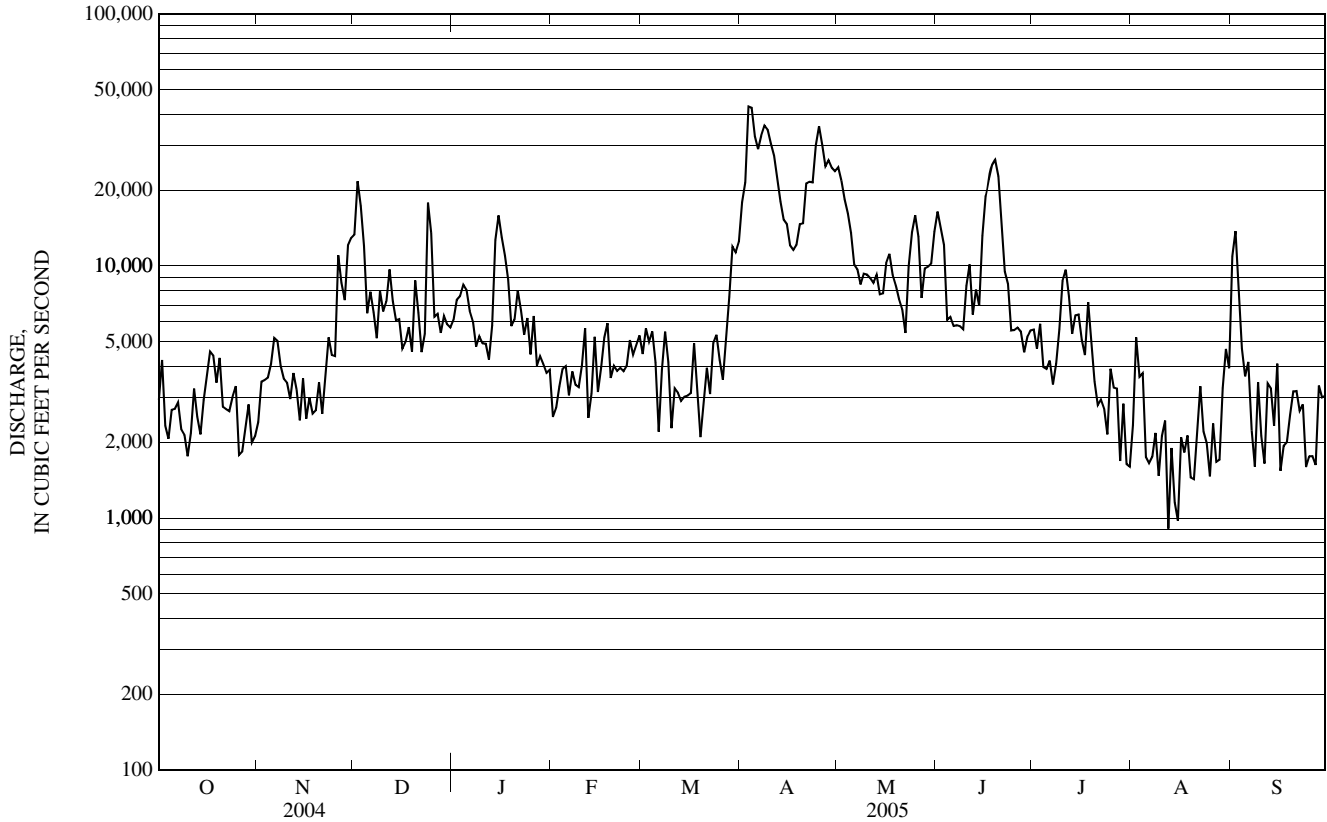
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1977, 1979 - 2005, BY WATER YEAR (WY)

MEAN	4,743	6,771	6,347	5,132	4,765	9,141	20,230	12,890	6,288	3,768	3,055	3,239
MAX	12,990	24,860	16,890	11,680	17,650	35,510	32,900	25,890	16,870	14,050	8,904	12,900
(WY)	(1982)	(1928)	(1984)	(1996)	(1981)	(1936)	(1934)	(1972)	(1947)	(1973)	(1990)	(1954)
MIN	1,314	2,313	1,795	1,627	1,419	1,626	5,536	4,556	1,946	1,393	1,072	1,007
(WY)	(1948)	(1948)	(1948)	(1948)	(1940)	(1940)	(1995)	(1987)	(1921)	(1921)	(1942)	(1921)

01144500 CONNECTICUT RIVER AT WEST LEBANON, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1912-77,1979-2005	
ANNUAL TOTAL	2,432,190		2,676,756			
ANNUAL MEAN	6,645		7,334		7,144	
HIGHEST ANNUAL MEAN					10,700	1928
LOWEST ANNUAL MEAN					4,101	1965
HIGHEST DAILY MEAN	30,400	Apr 3	42,900	Apr 3	129,000	Nov 4, 1927
LOWEST DAILY MEAN	1,360	Jul 7	909	Aug 12	82	Aug 8, 1965
ANNUAL SEVEN-DAY MINIMUM	2,170	Oct 26	1,570	Aug 9	731	Aug 27, 1934
MAXIMUM PEAK FLOW			51,600	Apr 3	136,000	Nov 4, 1927
MAXIMUM PEAK STAGE			19.34	Apr 3	35.00	Nov 4, 1927
10 PERCENT EXCEEDS	13,200		16,000		15,500	
50 PERCENT EXCEEDS	5,000		4,930		4,590	
90 PERCENT EXCEEDS	2,580		2,120		1,670	

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 mi<sup>2</sup>.

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

REVISED RECORDS.--WDR 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 good except those for estimated daily discharges, which are fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec 1	2045	723	5.77	Apr 3	1100	*1,050	*7.10
Dec 24	----	e510	ice jam	Apr 24	1630	566	5.13

Minimum discharge, 2.5 ft<sup>3</sup>/s, Sept. 25, gage height, 2.41 ft.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	9.5	276	e69	e20	e17	e230	175	82	22	8.9	47
2	12	8.5	361	e53	e19	e16	324	126	63	21	17	17
3	11	23	146	e97	e19	e15	848	106	51	16	12	11
4	10	22	94	e89	e18	e14	455	88	42	14	9.4	8.5
5	10	39	71	e70	e17	e14	230	74	35	14	8.2	6.8
6	8.9	30	49	e50	e16	e14	198	64	32	15	7.1	5.7
7	8.6	23	48	e47	e16	e14	244	59	35	16	6.4	5.2
8	8.5	18	67	e39	e18	e24	404	59	27	15	6.7	5.4
9	8.3	15	67	e37	e21	e31	255	54	e25	56	5.7	6.3
10	9.1	12	58	e35	e23	e23	178	53	e38	60	5.8	5.3
11	10	13	65	e31	e22	e20	151	55	e27	31	5.4	4.6
12	9.2	13	83	e29	e21	e19	112	48	e24	22	5.4	4.5
13	8.3	12	66	e34	e19	e18	93	36	e25	18	6.3	4.6
14	8.2	10	53	e180	e18	e17	84	33	e29	16	6.5	4.5
15	9.3	11	e37	e80	e21	e16	76	50	e47	16	8.5	19
16	24	11	e31	e55	e24	e15	70	62	109	13	6.4	15
17	24	11	e29	e47	e25	e15	71	50	214	13	5.5	12
18	24	11	e26	e41	e22	e15	74	42	222	14	4.4	11
19	18	12	e27	e36	e20	e14	74	38	127	17	3.7	9.0
20	15	11	e26	e32	e19	e15	94	34	87	22	4.6	8.4
21	14	18	e23	e31	e18	e15	122	31	65	14	10	11
22	13	21	e25	e30	e19	e16	84	39	58	12	8.9	8.3
23	12	17	e36	e29	e18	e18	133	58	48	18	7.2	7.1
24	12	17	e310	e28	e18	e20	394	95	39	11	6.1	5.7
25	11	145	e100	e27	e17	e20	284	103	31	9.8	5.3	4.3
26	11	145	e61	e26	e16	e20	164	85	26	9.1	4.6	8.5
27	11	70	e45	e25	e15	e21	141	88	23	11	3.9	16
28	9.2	88	e40	e25	e15	e60	222	72	19	13	5.3	9.6
29	8.0	163	e39	e23	---	e84	163	69	22	9.5	9.8	16
30	12	92	e40	e22	---	e108	132	68	30	8.7	9.5	17
31	9.8	---	e39	e21	---	e130	---	94	---	8.6	15	---
TOTAL	371.4	1,091.0	2,438	1,438	534	858	6,104	2,108	1,702	555.7	229.5	314.3
MEAN	12.0	36.4	78.6	46.4	19.1	27.7	203	68.0	56.7	17.9	7.40	10.5
MAX	24	163	361	180	25	130	848	175	222	60	17	47
MIN	8.0	8.5	23	21	15	14	70	31	19	8.6	3.7	4.3
CFSM	0.51	1.55	3.36	1.98	0.82	1.18	8.70	2.91	2.42	0.77	0.32	0.45
IN.	0.59	1.73	3.88	2.29	0.85	1.36	9.70	3.35	2.71	0.88	0.36	0.50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2005, BY WATER YEAR (WY)

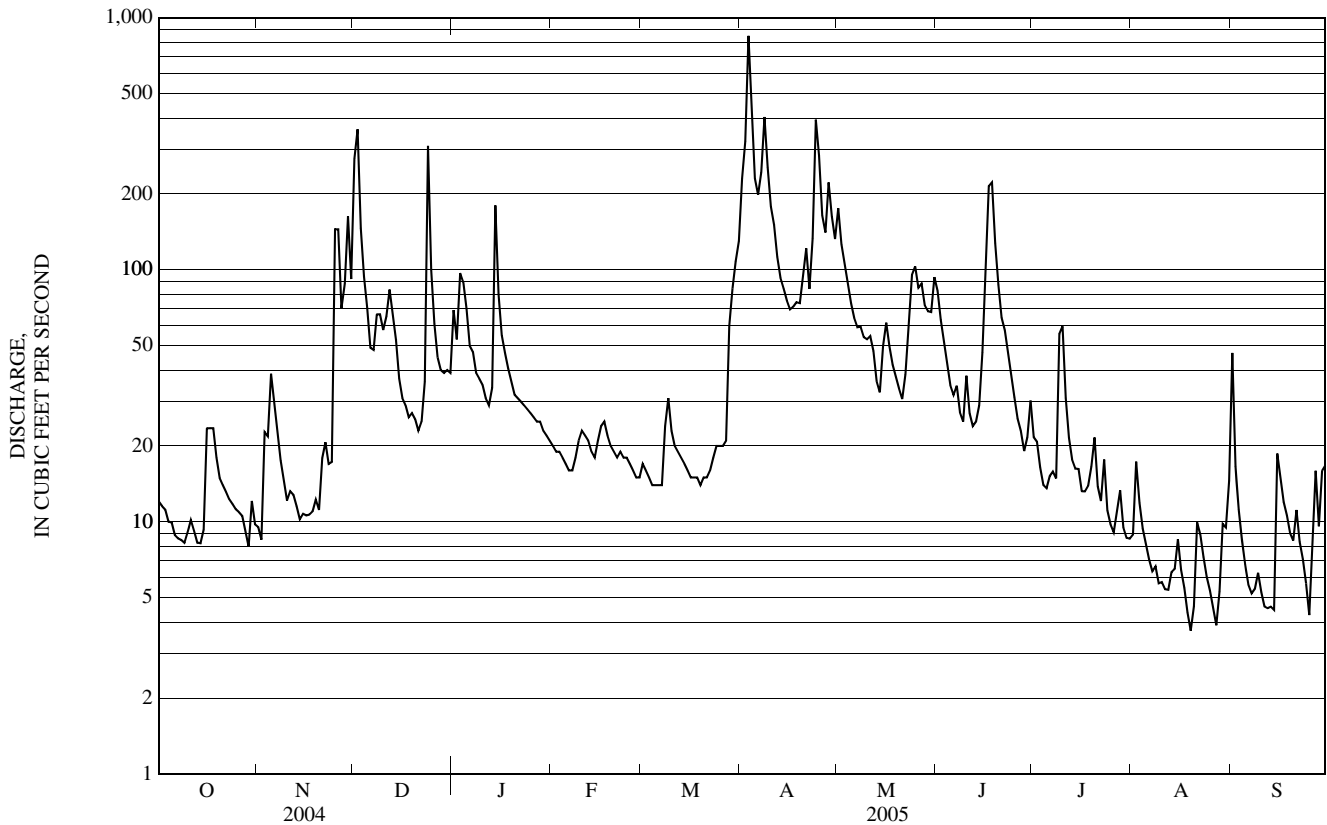
MEAN	45.5	62.2	53.0	46.7	35.5	89.0	163	82.3	43.2	28.4	23.7	24.5
MAX	121	121	119	108	76.6	200	272	169	160	125	74.1	97.2
(WY)	(1988)	(1989)	(2004)	(1998)	(1990)	(1998)	(2000)	(1996)	(1998)	(1996)	(2003)	(1987)
MIN	7.26	13.8	21.2	18.9	14.5	20.2	45.7	34.7	13.7	6.77	4.21	6.04
(WY)	(2002)	(2002)	(1998)	(2002)	(1987)	(2001)	(1995)	(1995)	(1988)	(1991)	(2002)	(2002)



01150900 OTTAUQUECHEE RIVER NEAR WEST BRIDGEWATER, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1985 - 2005	
ANNUAL TOTAL	17,311.5		17,743.9		58.1	
ANNUAL MEAN	47.3		48.6		35.6	
HIGHEST ANNUAL MEAN					83.2	2000
LOWEST ANNUAL MEAN					35.6	1995
HIGHEST DAILY MEAN	639	May 24	848	Apr 3	1,460	Mar 29, 1998
LOWEST DAILY MEAN	6.0	Aug 10	3.7	Aug 19	a 1.6	Sep 8, 2002
ANNUAL SEVEN-DAY MINIMUM	8.0	Aug 4	5.0	Sep 8	1.8	Sep 5, 2002
MAXIMUM PEAK FLOW			1,050	Apr 3	1,960	Oct 22, 1995
MAXIMUM PEAK STAGE			7.10	Apr 3	8.94	Apr 14, 2002
INSTANTANEOUS LOW FLOW			2.5	Sep 25	b 1.2	Sep 8, 2002
ANNUAL RUNOFF (CFSM)	2.02		2.08		2.48	
ANNUAL RUNOFF (INCHES)	27.52		28.21		33.75	
10 PERCENT EXCEEDS	97		108		125	
50 PERCENT EXCEEDS	25		22		31	
90 PERCENT EXCEEDS	10		8.3		9.8	

a Also occurred on September 9 and 10, 2002.  
 b Also occurred on September 11, 2002.  
 c Estimated.



## 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 mi<sup>2</sup>.

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 except those for estimated daily discharges, which are poor. 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 ft<sup>3</sup>/s, by computation of peak flow over dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,400 ft<sup>3</sup>/s, September 21, 1938, gage height, 17.68 ft, from rating curve extended above 6,200 ft<sup>3</sup>/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 ft<sup>3</sup>/s, July 6, 1984, during hydroelectric construction; minimum daily discharge, 3.8 ft<sup>3</sup>/s, July 3, 1933. Maximum discharge since construction of North Hartland Dam in March 1961, 6,170 ft<sup>3</sup>/s, March 17, 1977, gage height, 8.67 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,190 ft<sup>3</sup>/s, Apr. 7, gage height, 7.51 ft; minimum daily discharge, 21 ft<sup>3</sup>/s, Sep. 24.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	80	e800	415	230	175	908	1,250	619	277	56	213
2	113	80	e1,750	385	196	182	159	1,200	481	219	100	153
3	110	117	e1,410	557	164	147	180	960	410	176	103	65
4	110	147	802	736	173	116	1,700	778	388	167	76	60
5	102	147	596	622	184	117	3,660	685	298	166	57	42
6	88	148	425	502	185	117	4,040	685	279	195	53	32
7	85	149	417	457	197	e170	4,060	585	419	193	54	32
8	78	176	404	302	208	e220	4,080	541	343	187	44	32
9	74	165	542	223	211	224	3,960	541	281	289	44	32
10	74	114	541	367	233	194	3,450	505	711	373	44	32
11	75	117	504	406	258	e160	2,860	444	659	244	42	31
12	74	128	509	361	257	143	2,160	421	534	142	41	31
13	74	125	557	339	255	143	1,400	395	531	120	41	31
14	74	125	509	1,100	178	157	1,020	360	528	143	41	31
15	74	97	e307	1,270	170	183	830	364	635	142	62	45
16	75	81	e205	570	207	173	720	525	569	141	72	98
17	148	81	e262	336	350	163	721	653	1,150	141	59	95
18	203	80	275	378	303	153	723	514	1,520	125	42	94
19	143	78	274	316	220	134	670	399	917	117	36	73
20	91	78	302	309	220	134	627	282	586	117	35	48
21	102	78	e257	274	218	173	744	309	553	117	60	46
22	101	166	e189	190	202	219	695	419	509	106	72	46
23	99	233	e211	218	183	275	783	581	426	124	59	26
24	98	e190	e1,100	265	189	253	1,680	722	348	115	48	21
25	98	e475	e1,680	311	183	198	2,860	796	348	98	47	27
26	96	e750	e1,070	306	163	199	2,160	622	254	96	40	81
27	90	e413	e585	259	161	201	1,430	527	238	97	35	79
28	82	e298	e350	e240	161	454	2,090	528	266	97	67	51
29	81	e721	e360	e210	---	1,400	1,730	469	265	97	73	70
30	81	e776	480	207	---	1,880	1,100	535	284	79	63	85
31	81	---	491	223	---	1,790	---	653	---	56	63	---
TOTAL	2,987	6,413	18,164	12,654	5,859	10,247	53,200	18,248	15,349	4,756	1,729	1,802
MEAN	96.4	214	586	408	209	331	1,773	589	512	153	55.8	60.1
MAX	203	776	1,750	1,270	350	1,880	4,080	1,250	1,520	373	103	213
MIN	74	78	189	190	161	116	159	282	238	56	35	21

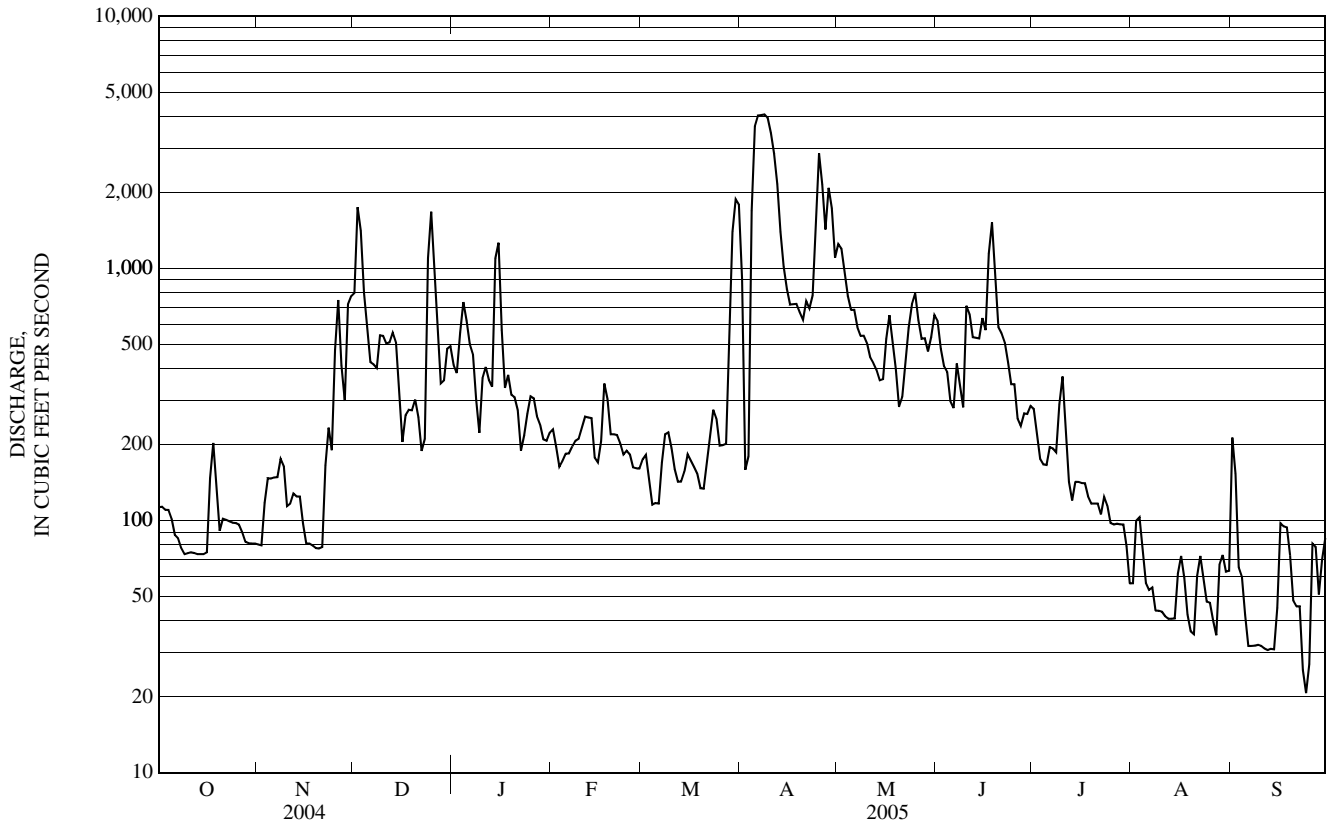
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2005, BY WATER YEAR (WY)

MEAN	217	342	352	300	278	625	1,373	662	298	165	124	131
MAX	1,060	957	1,076	900	1,157	2,570	2,587	1,676	990	1,131	759	1,030
(WY)	(1988)	(2004)	(2004)	(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)

01151500 OTTAUQUECHEE RIVER AT NORTH HARTLAND, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1931 - 2005	
ANNUAL TOTAL	125,674		151,408		405	
ANNUAL MEAN	343		415		173	
HIGHEST ANNUAL MEAN					691	1976
LOWEST ANNUAL MEAN					173	1965
HIGHEST DAILY MEAN	2,790	May 25	4,080	Apr 8	13,300	Mar 18, 1936
LOWEST DAILY MEAN	59	Sep 7	21	Sep 24	3.8	Jul 3, 1933
ANNUAL SEVEN-DAY MINIMUM	74	Oct 9	31	Sep 8	14	Sep 25, 1967
MAXIMUM PEAK FLOW			4,190	Apr 7	a 24,400	Sep 21, 1938
MAXIMUM PEAK STAGE			7.51	Apr 7	17.68	Sep 21, 1938
10 PERCENT EXCEEDS	754		813		932	
50 PERCENT EXCEEDS	201		207		208	
90 PERCENT EXCEEDS	87		57		56	

a From rating curve extended above 6,200 ft<sup>3</sup>/s as explained above.  
 e Estimated.



## 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 mi<sup>2</sup>.

PERIOD OF RECORD.--Discharge records: May 1928 to current year. Published as "at Claremont" prior to October 1928. Peak streamflow: Water years 1929 to current year. Water-quality discrete samples: Water years 1954, 1956 to 1959, 1966 to 1968, 1970, 1975 to 1978, 1980 to 1999.

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 from April 4 to June 11, which are fair, and 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 ft<sup>3</sup>/s, March 19, 1936, gage height, 10.92 ft, from rating curve extended above 6,700 ft<sup>3</sup>/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 ft<sup>3</sup>/s, August 26, 1965.

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

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Apr 3	1830	*6,590	*7.31	No other peak greater than base discharge.			

Minimum daily discharge, 58 ft<sup>3</sup>/s, Sept. 14.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	169	1,240	471	e305	252	2,190	1,420	513	530	88	557
2	174	168	1,830	438	e296	248	2,380	1,360	467	459	200	301
3	174	192	1,120	426	e286	e217	5,130	1,190	421	362	144	205
4	166	216	895	509	e280	e205	4,430	1,020	376	299	106	158
5	143	404	733	522	e291	e205	3,070	870	344	262	91	129
6	138	383	601	451	e291	e225	2,530	730	321	246	83	112
7	130	313	528	432	e281	234	2,420	633	309	348	79	103
8	122	278	535	418	e286	e266	2,670	582	302	399	75	98
9	117	250	605	396	e308	e280	2,410	557	299	521	72	81
10	114	228	581	386	e421	e301	1,920	522	293	618	69	68
11	112	212	759	361	e398	e295	1,590	484	828	477	66	65
12	104	213	748	360	e319	297	1,380	447	579	385	63	62
13	100	208	647	357	e295	e290	1,200	403	436	295	80	60
14	98	195	568	1,490	e265	e287	1,050	356	542	244	80	58
15	110	191	e391	1,410	e307	298	918	327	771	231	121	84
16	323	183	e369	876	e352	e279	810	315	602	201	118	110
17	349	184	e364	702	e454	e265	718	312	838	188	88	94
18	254	184	e331	e514	e362	272	662	299	1,380	306	76	89
19	207	184	362	e369	e350	266	609	282	1,370	294	70	81
20	189	183	e283	e428	e326	274	536	265	1,030	275	70	75
21	176	210	e220	e436	e301	294	531	245	809	215	77	72
22	203	226	e300	e369	e296	328	508	261	655	176	73	69
23	197	217	e450	e376	e313	348	544	377	556	166	67	66
24	192	216	e2,010	e412	e267	322	1,800	560	486	146	65	62
25	191	810	1,080	e405	e283	318	2,370	875	400	129	66	59
26	185	924	e718	e362	e238	319	2,000	942	358	117	62	61
27	177	614	e523	e356	e238	331	1,670	946	411	107	60	89
28	167	565	e435	e356	242	774	1,590	866	540	134	81	98
29	167	1,060	e553	e344	---	2,040	1,610	740	733	116	178	97
30	167	752	e504	e331	---	2,060	1,490	633	974	101	137	124
31	166	---	e479	e322	---	2,010	---	560	---	93	181	---
TOTAL	5,287	10,132	20,762	15,385	8,651	14,400	52,736	19,379	17,943	8,440	2,886	3,387
MEAN	171	338	670	496	309	465	1,758	625	598	272	93.1	113
MAX	349	1,060	2,010	1,490	454	2,060	5,130	1,420	1,380	618	200	557
MIN	98	168	220	322	238	205	508	245	293	93	60	58

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2005, BY WATER YEAR (WY)

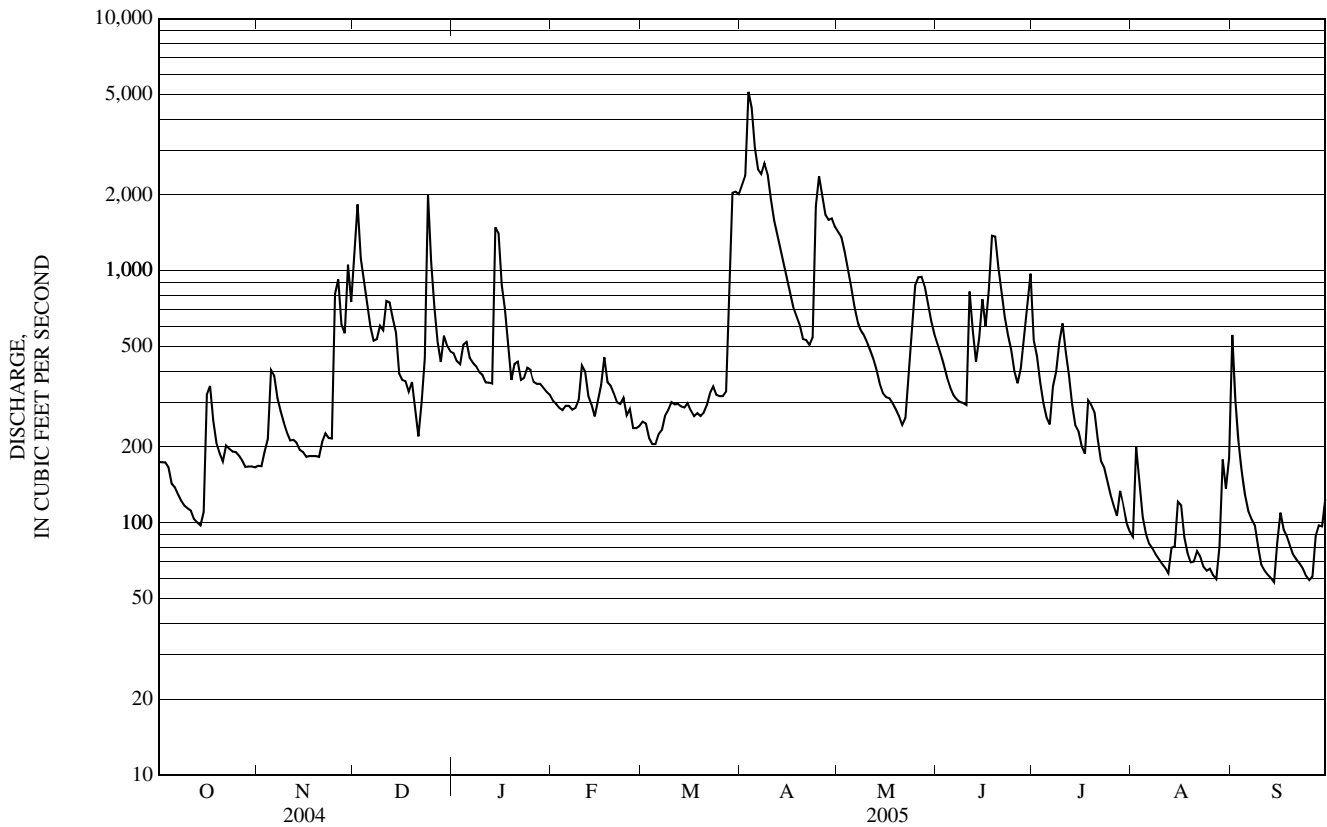
MEAN	218	350	372	322	325	675	1,282	636	321	173	139	134
MAX	895	917	1,146	1,090	1,343	2,490	2,746	1,657	818	711	952	1,269
(WY)	(1976)	(1996)	(1997)	(1978)	(1981)	(1936)	(1969)	(1940)	(1940)	(1973)	(1990)	(1938)
MIN	39.2	66.9	92.9	84.7	74.5	108	359	179	67.5	26.2	29.3	44.7
(WY)	(1984)	(1972)	(1948)	(1948)	(1942)	(1940)	(1995)	(1965)	(1965)	(1965)	(1999)	(1995)

CONNECTICUT RIVER BASIN

01152500 SUGAR RIVER AT WEST CLAREMONT, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1928 - 2005	
ANNUAL TOTAL	145,664		179,388			
ANNUAL MEAN	398		491		412	
HIGHEST ANNUAL MEAN					660 1976	
LOWEST ANNUAL MEAN					139 1965	
HIGHEST DAILY MEAN	3,890	Apr 2	5,130	Apr 3	11,200	Mar 19, 1936
LOWEST DAILY MEAN	80	Jul 5	58	Sep 14	14	Aug 26, 1965
ANNUAL SEVEN-DAY MINIMUM	88	Jul 1	66	Sep 20	21	Aug 22, 1965
MAXIMUM PEAK FLOW			6,590	Apr 3	a 14,000	Mar 19, 1936
MAXIMUM PEAK STAGE			7.31	Apr 3	b 11.80	Mar 12, 1936
10 PERCENT EXCEEDS	826		1,050		985	
50 PERCENT EXCEEDS	250		308		210	
90 PERCENT EXCEEDS	118		88		68	

- a From rating curve extended above 6,700 ft<sup>3</sup>/s as explained above.
- b Ice jam.
- c Estimated.



## 01152500 SUGAR RIVER AT WEST CLAREMONT, NH—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954, 1956 to 1959, 1966 to 1968, 1970, 1975 to 1978, 1980 to 1999, and current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
OCT														
04...	1030	171	11.1	103	7.4	131	11.9	.18	<.010	.140	<.008	<.006	.015	1
NOV														
03...	1000	194	11.4	95	6.9	137	7.9	.18	E.006	.179	<.008	E.003	.012	1
DEC														
08...	1130	517	13.8	99	6.2	129	1.7	.23	.038	.135	<.008	<.006	.013	2
JAN														
05...	1130	528	14.2	100	6.6	108	.9	.26	.043	.135	E.005	E.003	.017	3
31...	1445	E269	14.7	100	6.6	121	.1	.24	.086	.184	<.008	E.003	.014	2
FEB														
28...	1340	221	14.1	98	6.8	138	.1	.26	.139	.279	<.008	E.003	.016	2
APR														
01...	1200	2,150	14.2	102	6.4	75	1.6	.25	.038	.126	<.008	E.005	.050	160
07...	1200	2,440	12.8	98	6.5	70	4.0	.22	.019	.096	<.008	<.006	.026	14
12...	1300	1,370	--	--	6.3	85	--	E.21	.023	.104	<.008	<.006	.021	7
18...	0945	668	11.9	100	6.7	101	7.5	.18	.021	.134	<.008	<.006	.011	2
MAY														
03...	1230	1,180	11.3	98	7.1	97	8.9	.15	E.009	.086	<.008	<.006	.013	3
JUN														
07...	0930	307	9.1	98	7.4	129	18.6	.28	<.010	.141	<.008	<.006	.014	3
JUL														
05...	1745	262	8.6	102	7.2	119	24.2	.26	E.007	.135	<.008	<.006	.025	5
25...	1445	131	9.7	115	8.3	153	23.2	.22	<.010	.173	<.008	<.006	.015	1
AUG														
09...	0715	79	7.4	88	7.2	168	23.5	.30	.021	.164	<.008	<.006	.017	2

Remark codes used in this table:

&lt; -- Less than.

E -- Estimated.

## 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 mi<sup>2</sup>.

PERIOD OF RECORD.--Discharge records: October 1986 to current year. Peak streamflow: Water years 1987 to current year. Water-quality discrete samples: Water years 1988 to 1999.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 303.70 ft above National Geodetic Vertical Datum of 1929.

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 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec 1	1530	3,190	6.91	Apr 3	0815	*8,690	*9.69
Dec 23	2245	4,440	7.71	Apr 24	0745	3,380	7.04

Minimum daily discharge, 15 ft<sup>3</sup>/s, Sept. 14, 25.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	58	1,340	e201	e158	e103	1,220	688	163	171	32	116
2	101	55	832	e185	e158	e101	1,660	448	137	191	30	53
3	92	69	455	230	e161	e93	4,540	375	119	119	27	36
4	78	72	337	328	e153	e97	1,540	319	105	93	25	29
5	71	189	283	273	e164	e98	1,030	283	93	94	24	25
6	65	119	228	199	e164	e93	980	251	157	119	22	23
7	63	93	219	200	e157	e93	1,020	232	290	93	20	22
8	60	82	381	194	e155	e140	1,130	225	135	90	19	20
9	58	74	368	e172	e152	e123	769	206	131	175	19	19
10	57	67	327	182	e319	e123	603	186	109	145	25	18
11	54	70	659	161	e256	e114	510	172	173	95	20	17
12	53	69	478	153	e190	e100	410	155	205	74	18	16
13	50	65	355	176	e169	e98	353	141	122	64	32	16
14	50	58	e254	876	e152	e96	314	135	226	60	35	15
15	63	63	e189	470	e184	e93	282	150	175	59	100	28
16	191	60	e176	291	e198	e94	256	179	166	51	52	38
17	122	60	e179	264	e243	e101	241	148	421	49	40	29
18	91	59	e156	e183	e175	e96	227	129	246	48	31	26
19	78	58	e159	e177	e140	e90	206	120	172	48	26	22
20	72	56	e140	e210	e140	e98	192	112	140	42	28	21
21	68	84	e116	e214	e133	126	199	105	117	36	46	20
22	65	82	e155	e181	e138	136	172	159	105	43	37	19
23	63	70	e600	e177	e124	145	469	262	92	156	27	17
24	61	73	1,170	e193	e110	126	2,070	380	79	58	25	16
25	60	709	402	e189	e112	123	895	424	70	44	24	15
26	57	370	e248	e183	e108	125	545	356	61	38	22	18
27	57	215	e227	e171	e106	148	574	302	55	42	20	76
28	54	359	e180	e164	e101	730	1,170	225	103	54	25	38
29	53	544	e215	e173	---	1,430	603	181	397	39	36	33
30	56	295	e200	e167	---	1,040	525	172	286	33	41	44
31	63	---	e185	e174	---	1,060	---	170	---	31	52	---
TOTAL	2,276	4,297	11,213	7,111	4,520	7,233	24,705	7,390	4,850	2,454	980	885
MEAN	73.4	143	362	229	161	233	824	238	162	79.2	31.6	29.5
MAX	191	709	1,340	876	319	1,430	4,540	688	421	191	100	116
MIN	50	55	116	153	101	90	172	105	55	31	18	15
CFSM	0.66	1.28	3.23	2.05	1.44	2.08	7.35	2.13	1.44	0.71	0.28	0.26
IN.	0.76	1.43	3.72	2.36	1.50	2.40	8.21	2.45	1.61	0.82	0.33	0.29

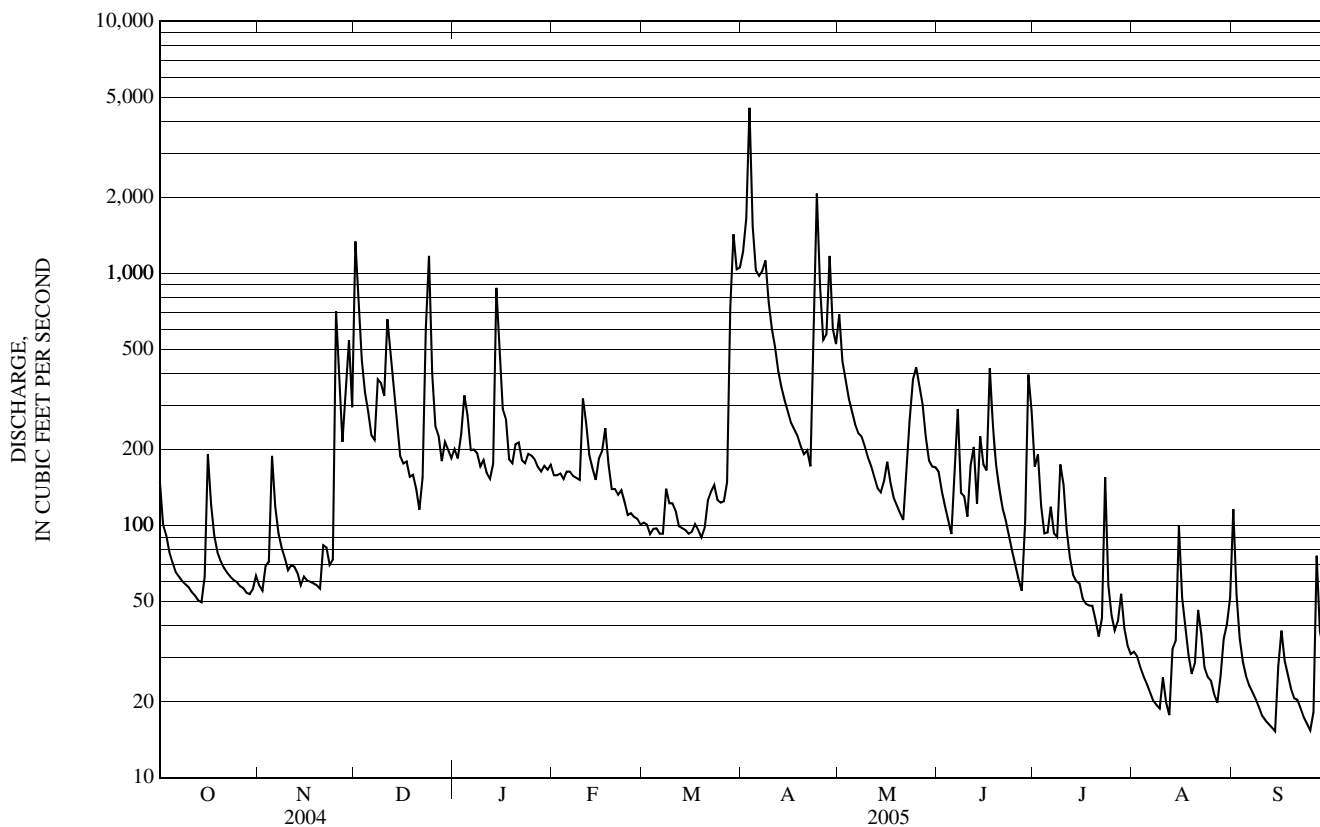
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	126	192	203	163	143	389	639	280	151	68.7	64.4	68.3
MAX	461	382	540	441	306	850	1,199	544	440	227	291	282
(WY)	(1988)	(1996)	(2004)	(1996)	(1997)	(1990)	(1994)	(1996)	(1998)	(1996)	(2003)	(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)

01153550 WILLIAMS RIVER NEAR ROCKINGHAM, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1987 - 2005	
ANNUAL TOTAL	66,142		77,914			
ANNUAL MEAN	181		213		207	
HIGHEST ANNUAL MEAN					283	
LOWEST ANNUAL MEAN					111	
HIGHEST DAILY MEAN	1,850	Apr 2	4,540	Apr 3	6,670	Mar 31, 1987
LOWEST DAILY MEAN	29	Jul 4	a 15	Sep 14	6.9	Sep 7, 1995
ANNUAL SEVEN-DAY MINIMUM	35	Jun 29	17	Sep 8	7.5	Sep 2, 1995
MAXIMUM PEAK FLOW			b 8,690	Apr 3	b 11,500	Mar 31, 1987
MAXIMUM PEAK STAGE			9.69	Apr 3	10.59	Mar 31, 1987
ANNUAL RUNOFF (CFSM)	1.61		1.91		1.85	
ANNUAL RUNOFF (INCHES)	21.97		25.88		25.13	
10 PERCENT EXCEEDS	379		434		450	
50 PERCENT EXCEEDS	103		125		105	
90 PERCENT EXCEEDS	47		28		25	

a Also occurred on September 25.  
 b From rating curve extended above 3,800 ft<sup>3</sup>/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 mi<sup>2</sup>.

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 ft<sup>3</sup>/s, August 10, 1976, gage height, 14.06 ft, from rating curve extended above 2,000 ft<sup>3</sup>/s on basis of slope-area measurements at gage heights 10.51 ft, 11.37 ft, and 13.26 ft; minimum, 1.9 ft<sup>3</sup>/s, July 25, 1949; minimum daily, 2.4 ft<sup>3</sup>/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).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,750 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec 23	2130	2,030	7.31	Apr 24	0700	1,950	7.20
Apr 3	0715	*4,490	*10.30				

Minimum discharge, 8.8 ft<sup>3</sup>/s, Sept. 24, 25, gage height, 2.47 ft.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	44	779	146	e103	62	831	477	127	137	17	100
2	93	41	550	130	e100	65	1,080	301	104	154	16	39
3	90	49	289	136	103	e61	2,450	245	90	97	14	26
4	75	50	215	184	98	e65	951	210	78	74	13	20
5	66	134	181	157	e99	e65	661	186	67	63	12	17
6	60	91	152	131	e100	e58	612	167	71	63	11	15
7	57	74	149	128	e100	58	654	157	124	58	10	14
8	53	65	230	120	100	93	721	155	75	59	9.7	e13
9	51	60	221	118	102	e78	489	140	67	104	13	e13
10	48	54	217	115	221	e77	374	128	59	88	14	e12
11	44	55	455	105	e157	e73	313	118	112	59	17	e12
12	43	54	304	102	e118	62	250	106	114	45	11	e11
13	40	50	230	119	e106	60	217	97	76	39	42	10
14	41	47	188	711	e96	e59	195	94	129	37	29	9.8
15	57	47	140	368	119	e57	176	100	99	37	66	23
16	164	46	132	214	127	e60	163	110	104	32	33	27
17	104	45	138	176	163	e63	154	94	265	30	23	20
18	80	44	121	117	118	e61	145	84	155	30	18	17
19	69	43	135	114	e89	e61	134	78	112	31	15	14
20	64	41	98	137	e88	e63	127	73	92	26	17	13
21	59	63	e76	129	e85	77	125	68	76	22	30	12
22	56	60	e103	e113	e84	92	113	111	64	21	23	11
23	53	51	e400	e110	e79	94	301	151	53	62	16	10
24	51	58	754	e126	e73	85	1,400	180	47	29	15	9.3
25	49	346	267	e122	e71	82	630	219	41	23	15	9.0
26	48	207	177	e119	e71	85	355	222	36	20	12	11
27	45	138	155	e110	e71	101	405	195	33	19	11	33
28	43	240	e130	e108	e65	524	875	146	57	37	18	19
29	42	346	e155	e110	---	1,150	429	122	414	23	35	17
30	43	195	138	e108	---	787	366	115	225	18	25	22
31	49	---	129	e105	---	734	---	130	---	17	53	---
TOTAL	1,961	2,838	7,408	4,788	2,906	5,112	15,696	4,779	3,166	1,554	653.7	579.1
MEAN	63.3	94.6	239	154	104	165	523	154	106	50.1	21.1	19.3
MAX	164	346	779	711	221	1,150	2,450	477	414	154	66	100
MIN	40	41	76	102	65	57	113	68	33	17	9.7	9.0
CFSM	0.88	1.31	3.31	2.14	1.44	2.28	7.25	2.14	1.46	0.69	0.29	0.27
IN.	1.01	1.46	3.82	2.47	1.50	2.63	8.09	2.46	1.63	0.80	0.34	0.30

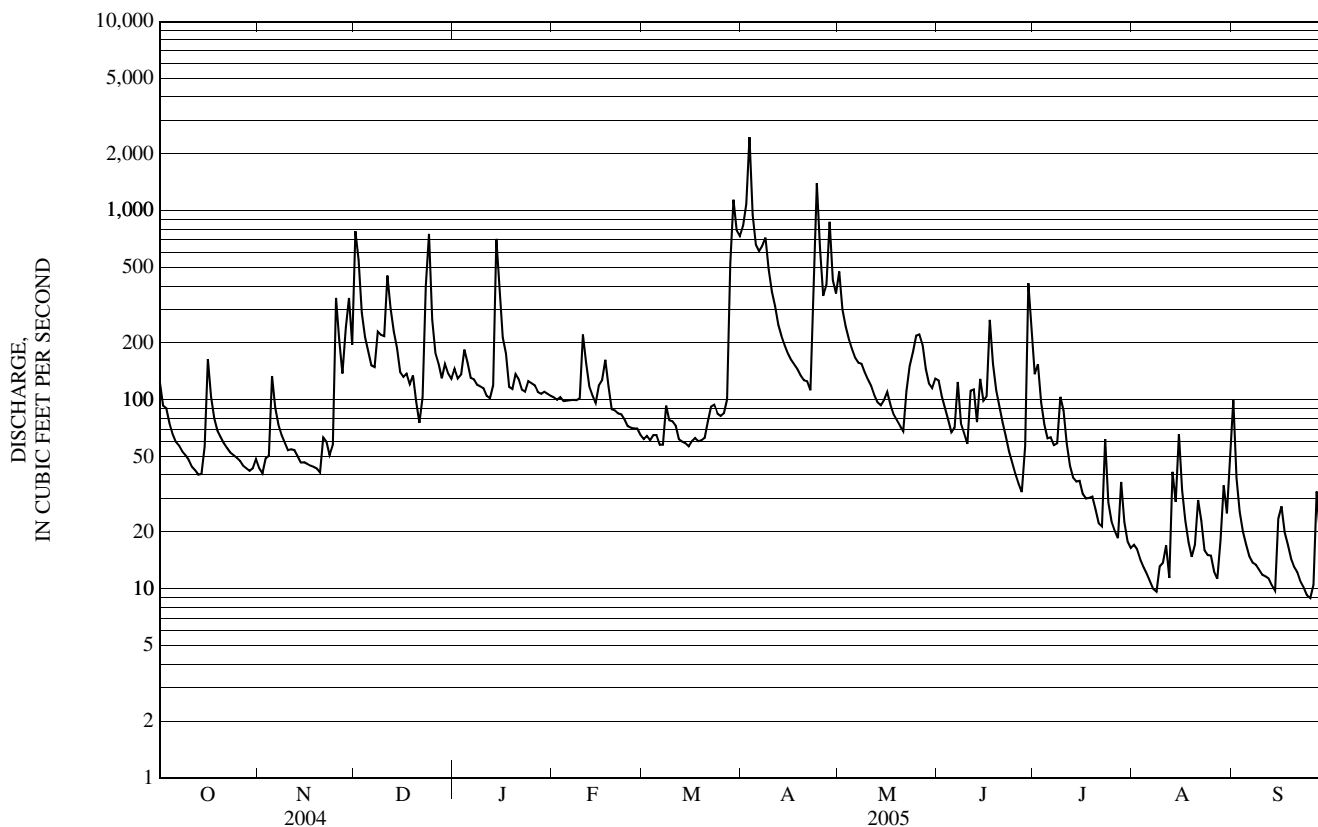
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1982, 2001 - 2005, BY WATER YEAR (WY)

MEAN	60.0	106	115	88.4	95.9	223	409	180	79.2	35.5	31.5	33.3
MAX	315	317	359	269	376	535	804	402	222	145	214	163
(WY)	(1976)	(1956)	(2004)	(1978)	(1981)	(1953)	(1969)	(1972)	(1952)	(1973)	(2003)	(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)

01154000 SAXTONS RIVER AT SAXTONS RIVER, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940-82, 2001-05	
ANNUAL TOTAL	45,743		51,440.8			
ANNUAL MEAN	125		141		121	
HIGHEST ANNUAL MEAN					198	1973
LOWEST ANNUAL MEAN					43.1	1965
HIGHEST DAILY MEAN	1,460	Apr 1	2,450	Apr 3	3,350	Jun 30, 1973
LOWEST DAILY MEAN	15	Jul 4	9.0	Sep 25	2.4	Aug 6, 1955
ANNUAL SEVEN-DAY MINIMUM	19	Jun 29	11	Sep 20	3.0	Aug 1, 1955
MAXIMUM PEAK FLOW			a 4,490	Apr 3	a 8,460	Aug 10, 1976
MAXIMUM PEAK STAGE			10.30	Apr 3	14.06	Aug 10, 1976
INSTANTANEOUS LOW FLOW			b 8.8	Sep 24	1.9	Jul 25, 1949
ANNUAL RUNOFF (CFSM)	1.73		1.95		1.68	
ANNUAL RUNOFF (INCHES)	23.57		26.50		22.80	
10 PERCENT EXCEEDS	246		294		293	
50 PERCENT EXCEEDS	74		85		57	
90 PERCENT EXCEEDS	28		17		11	

a From rating curve extended above 2,000 ft<sup>3</sup>/s as explained above.  
 b Also occurred on September 25.  
 c 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 mi<sup>2</sup>, 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 poor. 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 ft<sup>3</sup>.

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, 67,700 ft<sup>3</sup>/s, Apr. 4, gage height, 24.18 ft; minimum daily discharge, 1,310 ft<sup>3</sup>/s, Aug. 27.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,280	3,640	21,400	8,170	e4,350	5,090	29,900	32,600	20,000	6,340	1,860	9,250
2	3,470	3,850	30,000	8,550	e4,610	5,720	31,600	29,900	17,900	6,760	4,330	14,600
3	3,980	4,220	26,200	9,620	4,520	e5,490	55,400	24,800	14,300	7,110	4,430	12,100
4	2,910	3,660	18,900	10,800	4,950	e5,820	62,100	21,100	10,800	6,030	4,100	5,400
5	3,040	5,370	11,600	11,500	5,900	5,330	51,200	17,800	7,160	4,930	3,050	4,180
6	3,730	5,900	9,840	10,600	5,000	3,990	45,700	14,800	7,640	5,580	1,670	4,250
7	2,710	6,750	8,640	7,560	3,650	4,040	45,800	13,000	7,470	4,630	1,490	2,800
8	2,890	4,730	7,990	7,730	5,650	4,890	50,200	11,900	7,270	4,670	1,960	1,610
9	2,340	4,210	9,410	6,320	4,430	e5,560	50,100	11,400	7,950	5,270	1,590	3,170
10	3,430	4,190	11,200	6,480	5,590	e3,940	44,600	11,700	7,770	9,780	1,920	1,980
11	2,400	3,550	10,700	6,620	6,430	e3,630	39,100	11,600	11,800	11,300	2,930	1,580
12	2,890	4,380	12,000	6,140	5,800	3,560	32,800	10,600	12,400	11,200	1,590	3,650
13	2,220	4,530	12,400	6,320	4,860	3,570	25,400	9,610	9,460	6,200	2,560	3,350
14	2,310	2,940	10,300	13,400	4,780	3,430	21,300	11,000	10,300	6,350	1,460	2,450
15	2,990	3,370	7,200	25,300	5,440	3,960	19,400	8,460	13,300	e6,150	1,340	3,930
16	4,480	3,550	7,030	18,700	5,350	3,660	16,800	10,400	22,700	5,330	2,370	1,800
17	5,580	3,610	6,530	15,800	6,210	5,060	15,400	13,100	26,300	5,290	1,410	2,180
18	5,530	3,410	6,610	12,500	7,350	3,760	15,700	12,900	32,100	7,410	2,430	2,110
19	4,950	3,270	6,200	9,400	e6,810	3,280	17,700	10,200	33,200	e6,680	2,330	e2,700
20	4,150	3,630	8,010	8,000	4,960	3,400	18,600	9,450	29,800	4,370	1,430	3,020
21	3,890	3,050	7,670	e8,060	5,250	4,030	22,900	7,020	20,700	3,230	1,730	3,190
22	3,650	4,260	6,000	e10,100	4,570	4,940	27,100	7,210	12,600	3,350	3,950	3,120
23	2,970	5,360	7,050	e9,450	4,480	5,620	25,900	9,920	12,600	3,560	2,110	2,720
24	3,230	6,180	21,300	e7,770	e4,740	6,580	39,200	16,400	7,880	2,280	1,880	2,090
25	4,090	7,690	22,600	e8,610	e5,200	5,240	46,900	22,400	6,560	3,770	2,140	1,650
26	2,960	13,100	14,500	8,140	e5,080	5,120	43,900	18,800	7,460	4,000	2,050	1,790
27	2,210	13,000	8,420	e6,430	5,670	6,130	35,300	12,600	6,620	3,270	1,310	1,520
28	2,810	11,100	e8,130	e6,170	5,310	9,790	35,600	11,600	5,870	2,520	1,750	3,670
29	2,870	14,200	7,460	e5,750	---	23,300	35,000	13,800	8,790	2,950	3,850	2,960
30	2,840	18,400	8,020	e5,550	---	25,800	30,800	12,000	8,840	2,290	4,340	2,260
31	2,390	---	8,440	e5,420	---	24,700	---	14,800	---	1,710	4,270	---
TOTAL	104,190	179,100	361,750	290,960	146,940	208,430	1,031,400	442,870	407,540	164,310	75,630	111,080
MEAN	3,361	5,970	11,670	9,386	5,248	6,724	34,380	14,290	13,580	5,300	2,440	3,703
MAX	5,580	18,400	30,000	25,300	7,350	25,800	62,100	32,600	33,200	11,300	4,430	14,600
MIN	2,210	2,940	6,000	5,420	3,650	3,280	15,400	7,020	5,870	1,710	1,310	1,520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2005, BY WATER YEAR (WY)

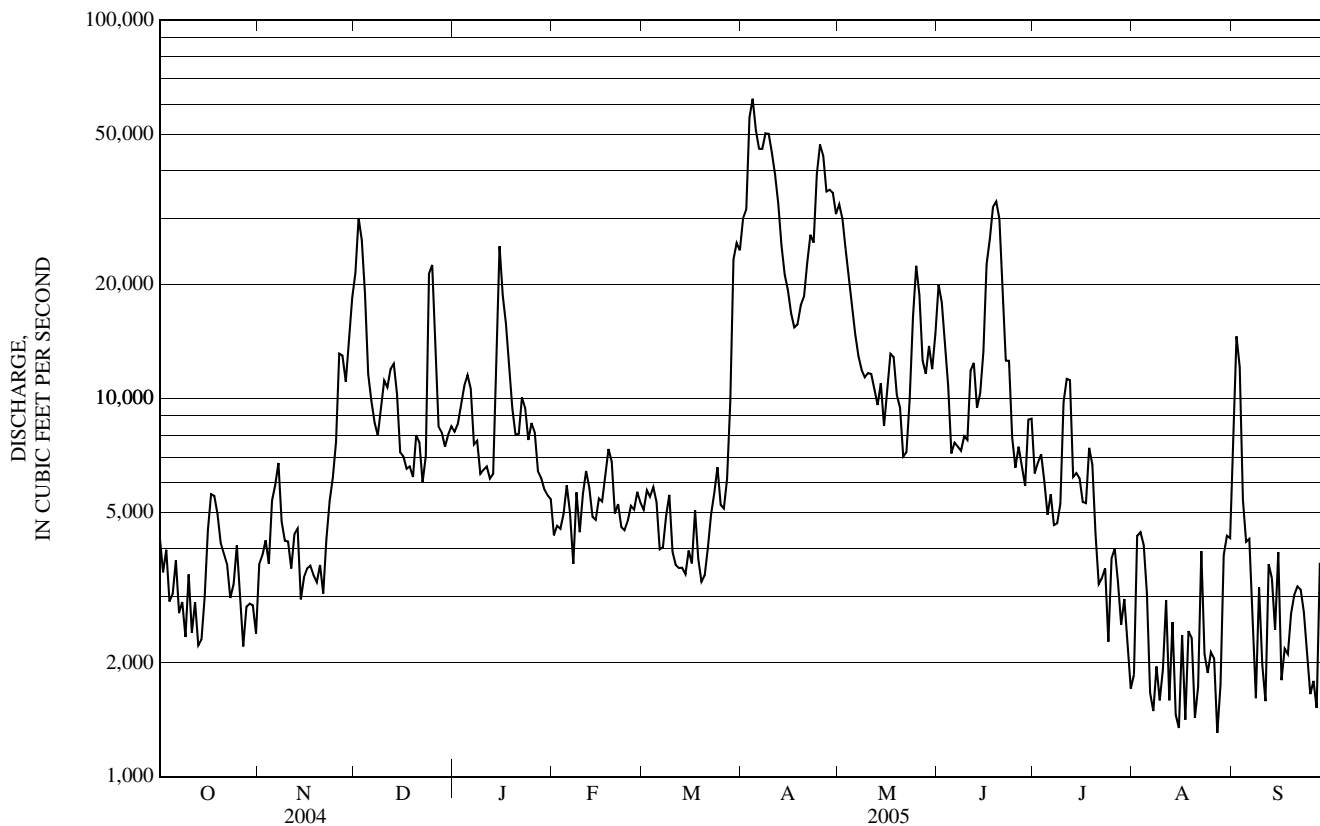
MEAN	6,189	8,648	8,663	7,114	6,980	13,410	27,280	16,300	8,210	4,615	3,948	3,859
MAX	18,300	20,070	22,770	17,930	21,810	34,150	45,630	33,380	20,600	18,930	12,990	14,820
(WY)	(1978)	(2004)	(2004)	(1996)	(1981)	(1979)	(1969)	(1972)	(1947)	(1973)	(1990)	(1954)
MIN	1,424	2,811	2,124	1,866	2,736	4,532	7,803	6,477	3,082	1,845	1,461	1,555
(WY)	(1949)	(2002)	(1948)	(1948)	(1980)	(1956)	(1995)	(1965)	(1999)	(1965)	(1942)	(1995)

01154500 CONNECTICUT RIVER AT NORTH WALPOLE, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1942 - 2005	
ANNUAL TOTAL	3,202,930		3,524,200		9,601	
ANNUAL MEAN	8,751		9,655		4,991	
HIGHEST ANNUAL MEAN					14,630	1996
LOWEST ANNUAL MEAN					4,991	1965
HIGHEST DAILY MEAN	44,300	Apr 3	62,100	Apr 4	88,300	Mar 28, 1953
LOWEST DAILY MEAN	1,650	Jul 18	1,310	Aug 27	a 115	Aug 31, 1952
ANNUAL SEVEN-DAY MINIMUM	2,640	Oct 8	1,820	Aug 14	777	Aug 7, 1970
MAXIMUM PEAK FLOW			67,700	Apr 4	97,000	Mar 27, 1953
MAXIMUM PEAK STAGE			24.18	Apr 4	30.37	Mar 27, 1953
10 PERCENT EXCEEDS	17,600		22,800		21,300	
50 PERCENT EXCEEDS	6,500		5,900		6,200	
90 PERCENT EXCEEDS	3,100		2,340		2,040	

a Also occurred on September 2, 1957.

e Estimated.



01154500 CONNECTICUT RIVER AT NORTH WALPOLE, NH —Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954 to 1958, 1963 to 1968, 1970, 1975 to 1977, 1981 to 1999, and current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
OCT														
04...	1230	2,990	9.2	97	7.7	137	17.0	.19	.013	.183	<.008	<.006	.012	1
NOV														
03...	0800	4,900	13.4	116	7.6	147	9.1	.21	.013	.180	<.008	<.006	.011	1
DEC														
08...	1400	8,680	12.9	93	7.1	91	2.0	.21	.019	.201	<.008	<.006	.012	2
JAN														
05...	1400	11,400	13.4	92	7.1	112	.1	.15	.025	.245	E.005	<.006	.010	3
31...	1200	E10,200	13.4	92	7.0	111	.1	.17	.034	.302	<.008	E.003	.011	2
FEB														
28...	1100	10,300	13.6	98	6.9	149	.2	.18	.040	.337	<.008	E.003	.013	2
MAR														
31...	1730	26,500	12.8	89	6.9	118	.2	.33	.046	.240	<.008	E.003	.078	52
APR														
07...	1415	46,700	13.9	106	7.2	88	3.9	.34	.020	.214	<.008	<.006	.121	109
12...	1900	30,100	--	--	7.1	83	--	1.2	.020	.208	<.008	<.006	.048	31
18...	0800	15,200	11.9	98	7.2	108	7.2	.17	.021	.236	<.008	E.003	.019	6
MAY														
03...	1430	24,400	11.4	96	7.5	85	7.9	.16	.014	.168	<.008	<.006	.022	10
JUN														
07...	1700	10,300	--	--	7.3	101	--	.21	.012	.142	<.008	<.006	.009	2
JUL														
05...	1600	7,340	--	--	7.5	125	--	.22	E.008	.159	<.008	E.003	.015	1
25...	1130	3,350	7.0	86	7.5	120	25.7	.19	.010	.147	<.008	<.006	.011	2
AUG														
10...	1330	1,630	7.8	97	7.8	151	26.4	.23	.015	.167	<.008	<.006	.009	1
11...	1545	6,400	6.9	86	7.4	141	26.7	.20	.016	.161	<.008	<.006	.006	1

Remark codes used in this table:

< -- Less than.  
E -- Estimated.

## 01155500 WEST RIVER AT JAMAICA, VT

LOCATION.--Lat 43°06'32", long 72°46'33", Windham County, Hydrologic Unit 01080107, on left bank, 0.3 mi upstream from Depot Street bridge, 0.4 mi upstream from Ball Mountain Brook, 0.7 mi north of Depot Street and State Highway 30/100 intersection in Jamaica, 2.5 mi downstream from Ball Mountain Dam, and 7.0 mi northwest of State Highways 30 and 35 intersection in Townshend.

DRAINAGE AREA.--179 mi<sup>2</sup>.

PERIOD OF RECORD.--Discharge records: October 1946 to September 1989, October 1995 to current year. Maximum discharge only: Water years 1990-1995. Measured discharge only: Water years 1990-1995.

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

GAGE.--Water-stage recorder. Elevation of gage is 680 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges and for September 27-30, which are poor. Flow regulated since 1961 by Ball Mountain Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,500 ft<sup>3</sup>/s, December 31, 1948, gage height, 14.87 ft, from rating curve extended above 9,800 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; minimum daily, 0.94 ft<sup>3</sup>/s, September 23, 24, 1968. Maximum discharge since construction of Ball Mountain Dam in 1961, 5,840 ft<sup>3</sup>/s, April 23, 1996, gage height, 9.47 ft; maximum gage height, 11.72 ft, February 7, 1982 (Ice Jam).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,910 ft<sup>3</sup>/s, Apr. 8, gage height, 9.10 ft; minimum daily discharge, 10 ft<sup>3</sup>/s, Sept. 26.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	335	145	1,400	387	e193	e138	1,520	1,170	383	368	50	211
2	176	125	2,900	419	e167	e138	330	699	285	177	50	334
3	167	149	1,870	378	e159	e140	676	674	217	174	50	57
4	164	225	969	664	e164	e134	2,170	486	190	172	50	57
5	102	464	518	579	e161	e125	3,920	448	170	169	42	57
6	101	382	410	359	e154	e119	3,990	378	168	129	36	57
7	101	249	365	333	e154	e122	3,780	320	742	84	36	56
8	101	199	743	301	e160	e142	4,390	307	379	85	31	28
9	85	159	779	e248	e202	e162	3,970	270	261	87	26	27
10	51	159	542	e274	e215	e187	2,150	243	211	354	24	27
11	92	159	866	271	e215	e167	1,370	246	536	220	20	27
12	92	159	895	226	e212	e142	904	194	1,090	61	16	27
13	91	99	588	262	e205	e138	702	168	369	61	19	27
14	90	168	460	1,660	e199	e133	656	168	481	61	17	27
15	91	113	237	1,300	e221	e142	616	205	681	150	18	30
16	296	90	e320	1,030	e239	e149	546	370	421	210	17	28
17	346	143	e300	489	e276	e156	546	253	1,070	130	15	27
18	199	144	191	e369	e260	e156	564	204	1,010	62	15	25
19	197	124	e255	e292	e253	e154	585	166	469	62	15	25
20	139	83	e194	e323	e249	e154	556	162	341	62	22	23
21	106	160	e148	e260	e226	e167	539	160	242	62	72	17
22	138	239	e160	e232	e195	e192	485	272	202	62	72	14
23	137	158	e550	e225	e167	e215	1,380	531	186	63	71	14
24	135	140	1,460	e291	e142	e215	2,010	894	111	62	70	746
25	74	889	1,480	e319	e138	173	2,780	1,170	80	62	69	40
26	e94	1,480	1,080	e256	e135	e170	2,100	819	112	62	69	10
27	126	1,280	e608	e190	e133	e175	1,240	631	111	62	31	193
28	98	847	e247	e190	e131	351	1,410	488	114	63	36	140
29	66	1,290	e346	e190	---	2,220	1,080	376	125	61	40	57
30	67	1,030	e365	e205	---	2,360	689	329	558	59	462	178
31	104	---	374	e187	---	1,970	---	412	---	51	401	---
TOTAL	4,161	11,051	21,620	12,709	5,325	11,106	47,654	13,213	11,315	3,547	1,962	2,586
MEAN	134	368	697	410	190	358	1,588	426	377	114	63.3	86.2
MAX	346	1,480	2,900	1,660	276	2,360	4,390	1,170	1,090	368	462	746
MIN	51	83	148	187	131	119	330	160	80	51	15	10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1989, 1996 - 2005, BY WATER YEAR (WY)

MEAN	241	354	359	273	270	561	1,268	583	258	132	111	128
MAX	916	787	862	749	1,009	1,486	2,290	1,499	831	822	909	606
(WY)	(1988)	(1989)	(1984)	(1998)	(1981)	(1953)	(1969)	(1972)	(1984)	(1973)	(1976)	(1987)
MIN	16.9	65.0	78.7	65.3	42.0	107	499	192	35.8	14.2	11.3	12.5
(WY)	(1948)	(1965)	(1948)	(1981)	(1980)	(1956)	(1985)	(1964)	(1964)	(1965)	(1999)	(1948)

CONNECTICUT RIVER BASIN

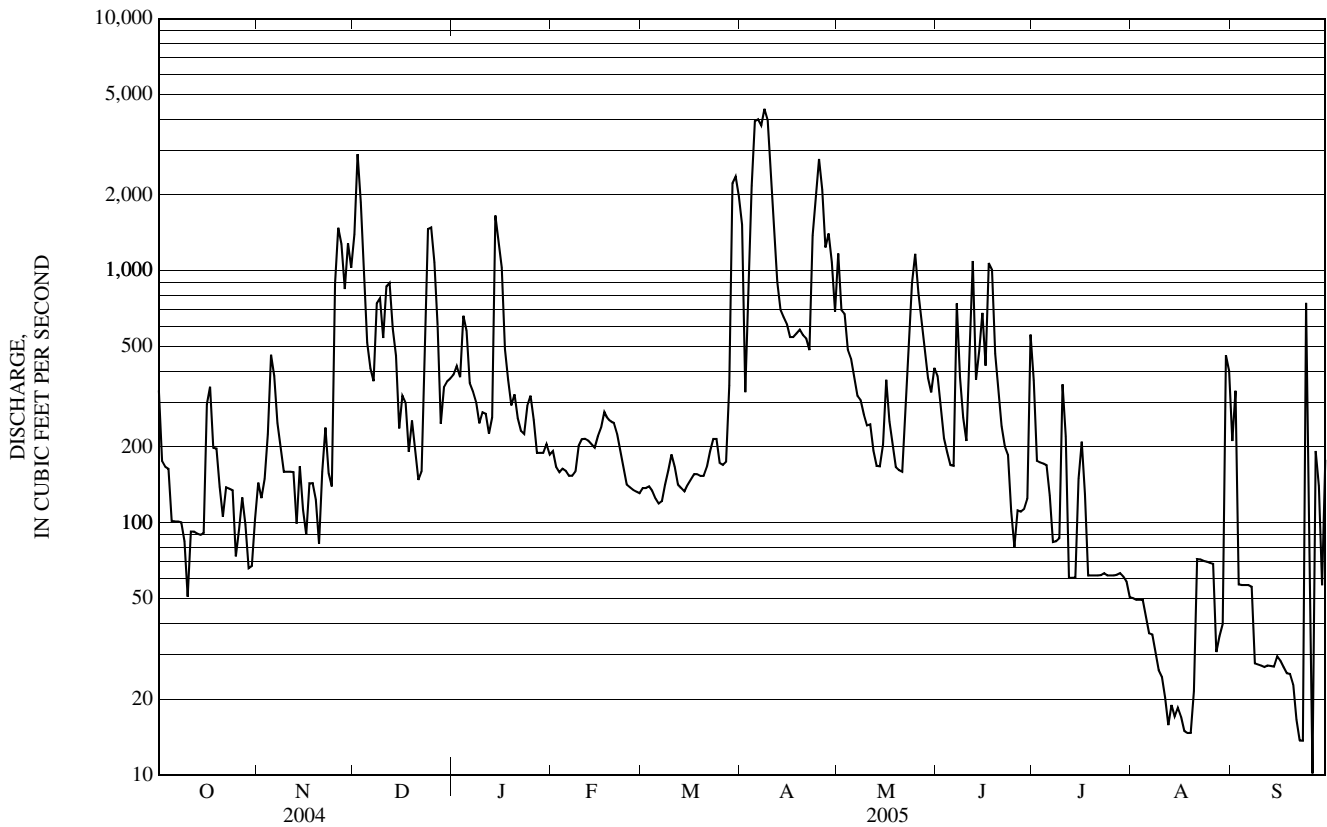
01155500 WEST RIVER AT JAMAICA, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1947-89,1996-2005	
ANNUAL TOTAL	133,177		146,249		378	
ANNUAL MEAN	364		401		611	
HIGHEST ANNUAL MEAN					1976	
LOWEST ANNUAL MEAN					161	
HIGHEST DAILY MEAN	3,750	Apr 3	4,390	Apr 8	15,500	Dec 31, 1948
LOWEST DAILY MEAN	a 36	Jul 4	10	Sep 26	0.94	Sep 23, 1968
ANNUAL SEVEN-DAY MINIMUM	43	Jul 2	17	Aug 13	1.1	Sep 18, 1968
MAXIMUM PEAK FLOW			4,910	Apr 8	b 29,500	Dec 31, 1948
MAXIMUM PEAK STAGE			9.10	Apr 8	14.87	Dec 31, 1948
10 PERCENT EXCEEDS	896		1,020		954	
50 PERCENT EXCEEDS	169		190		170	
90 PERCENT EXCEEDS	65		41		33	

a Also occurred on July 5, 2004.

b From rating curve extended above 9,800 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.

c Estimated.



## 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 mi<sup>2</sup>.

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, 1,010 ft<sup>3</sup>/s, Apr. 6, gage height, 8.43 ft; minimum daily discharge, 11 ft<sup>3</sup>/s, Aug. 12.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	169	76	350	319	124	89	508	407	266	234	29	95
2	158	75	502	314	123	90	114	405	234	256	28	150
3	151	82	528	308	122	90	127	433	199	232	25	157
4	138	88	525	305	113	90	417	437	169	173	23	132
5	126	164	509	302	97	90	894	365	143	128	21	101
6	109	233	339	298	97	90	1,000	324	124	102	19	77
7	97	210	275	293	96	90	987	315	158	117	17	59
8	90	179	274	289	96	116	992	376	159	126	16	47
9	81	157	272	283	96	126	997	449	145	132	14	39
10	74	140	269	247	152	126	987	455	126	149	13	33
11	68	128	270	231	194	126	983	285	113	141	12	28
12	62	122	274	228	193	124	991	194	112	117	11	24
13	54	116	275	225	191	124	987	155	103	95	15	22
14	50	105	273	268	150	123	965	132	135	86	22	19
15	50	96	196	371	140	122	952	110	196	132	47	20
16	117	90	153	388	172	120	915	107	199	126	75	30
17	194	85	154	393	259	110	860	110	219	101	65	40
18	182	81	154	438	317	103	807	107	310	86	48	45
19	160	78	154	443	280	98	724	104	334	87	37	45
20	142	74	153	428	213	98	542	99	327	89	31	43
21	129	76	152	401	163	104	347	94	281	76	31	40
22	116	80	150	362	144	112	264	112	222	63	32	37
23	107	79	150	343	144	119	250	174	173	55	30	34
24	99	75	164	208	144	120	262	232	137	53	26	31
25	93	166	176	94	138	120	502	379	111	48	23	29
26	88	309	182	131	135	120	792	457	90	43	20	28
27	85	280	185	142	134	120	780	523	76	40	18	39
28	83	223	221	142	101	124	697	542	67	40	19	50
29	78	321	311	140	---	374	511	512	102	37	33	56
30	76	346	328	139	---	731	406	372	212	32	39	73
31	76	---	323	128	---	805	---	291	---	29	48	---
TOTAL	3,302	4,334	8,241	8,601	4,328	4,994	20,560	9,057	5,242	3,225	887	1,623
MEAN	107	144	266	277	155	161	685	292	175	104	28.6	54.1
MAX	194	346	528	443	317	805	1,000	542	334	256	75	157
MIN	50	74	150	94	96	89	114	94	67	29	11	19

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1989, 1996 - 2005, BY WATER YEAR (WY)

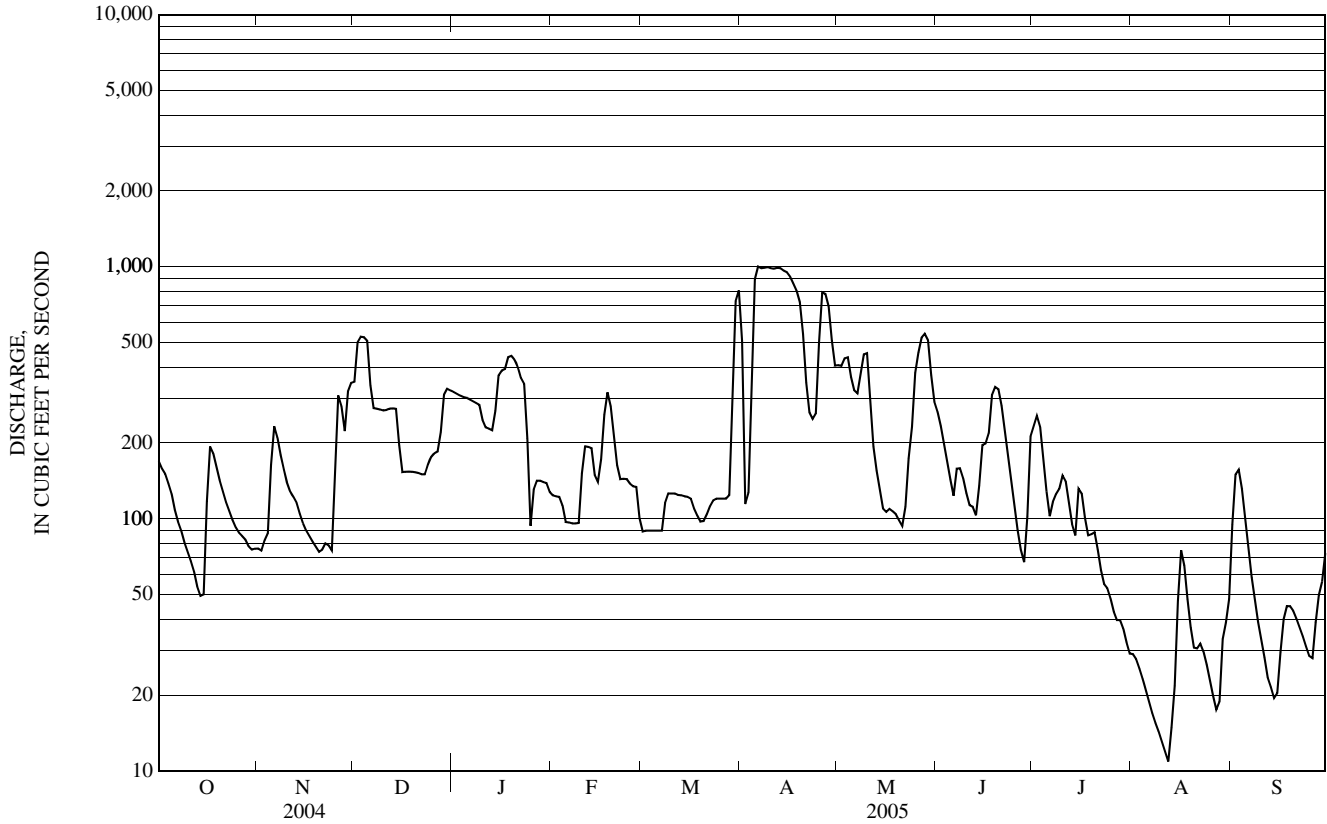
MEAN	102	163	183	149	151	277	552	282	135	54.1	46.1	55.9
MAX	453	577	514	383	423	661	1,022	632	634	229	334	233
(WY)	(1978)	(1996)	(2004)	(1978)	(1981)	(1979)	(1960)	(1956)	(1984)	(1973)	(1986)	(1960)
MIN	4.39	4.04	22.7	21.2	28.1	88.5	167	90.6	13.5	5.77	4.88	8.68
(WY)	(1965)	(1965)	(1965)	(1981)	(1980)	(1956)	(1946)	(1986)	(1964)	(1965)	(1965)	(2002)



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

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1945-89,1996-2005	
ANNUAL TOTAL	64,771		74,394			
ANNUAL MEAN	177		204		179	
HIGHEST ANNUAL MEAN					279	1960
LOWEST ANNUAL MEAN					57.3	1965
HIGHEST DAILY MEAN	936	Apr 7	1,000	Apr 6	2,150	Apr 7, 1987
LOWEST DAILY MEAN	19	Jul 26	11	Aug 12	0.40	Sep 17, 1964
ANNUAL SEVEN-DAY MINIMUM	24	Jul 2	14	Aug 7	0.67	Aug 1, 1965
MAXIMUM PEAK FLOW			1,010	Apr 6	2,260	Apr 7, 1987
MAXIMUM PEAK STAGE			8.43	Apr 6	a 11.78	Apr 7, 1987
10 PERCENT EXCEEDS	387		437		514	
50 PERCENT EXCEEDS	119		131		91	
90 PERCENT EXCEEDS	35		34		14	

a From floodmarks.



## 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 mi<sup>2</sup>.

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 except those for estimated daily discharges, which are fair. Flow regulated by Otter Brook Lake.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 620 ft<sup>3</sup>/s, Apr. 25, gage height, 8.46 ft; minimum daily discharge, 4.3 ft<sup>3</sup>/s, Sept. 25.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	35	183	139	54	48	275	146	109	100	35	38
2	51	33	257	135	47	48	26	148	94	108	36	37
3	51	35	290	105	38	41	30	124	83	100	29	28
4	46	53	271	81	39	35	148	105	73	74	24	22
5	42	132	213	87	39	35	362	92	64	59	20	17
6	38	119	123	96	39	36	510	105	59	82	18	15
7	36	90	110	96	39	e36	531	209	98	289	16	13
8	35	74	117	96	50	36	558	223	76	311	15	12
9	33	63	129	95	56	36	575	101	67	195	13	11
10	31	56	127	94	75	37	559	80	59	155	12	9.6
11	29	52	155	92	95	37	575	73	53	109	11	8.6
12	26	49	148	91	94	38	566	65	48	80	11	8.2
13	27	46	130	78	92	38	535	56	44	66	13	7.1
14	31	42	111	128	81	38	497	52	64	65	17	6.1
15	35	40	77	207	66	38	347	53	113	95	31	5.8
16	94	e39	65	210	67	39	254	61	94	74	41	6.2
17	99	e38	66	211	118	35	250	58	139	59	33	7.0
18	72	38	65	234	162	33	146	51	163	56	26	7.0
19	60	37	66	240	157	33	93	48	164	60	21	6.7
20	53	36	66	207	150	33	81	45	130	85	18	6.2
21	47	40	65	145	142	33	81	42	96	60	18	5.9
22	44	42	65	108	81	34	80	68	74	48	18	5.6
23	41	40	65	107	47	34	82	93	60	42	16	5.3
24	50	41	74	65	48	35	163	141	48	36	14	4.8
25	50	135	79	45	48	35	482	182	39	31	13	4.3
26	45	165	81	59	48	217	553	268	33	29	11	4.4
27	41	119	153	62	48	78	333	341	30	29	9.8	11
28	38	109	219	61	48	88	175	290	32	48	11	17
29	35	182	211	61	---	345	148	173	86	40	23	18
30	34	183	177	60	---	512	143	135	142	32	23	26
31	36	---	143	58	---	510	---	125	---	28	23	---
TOTAL	1,406	2,163	4,101	3,553	2,068	2,671	9,158	3,753	2,434	2,645	619.8	373.8
MEAN	45.4	72.1	132	115	73.9	86.2	305	121	81.1	85.3	20.0	12.5
MAX	99	183	290	240	162	512	575	341	164	311	41	38
MIN	26	33	65	45	38	33	26	42	30	28	9.8	4.3

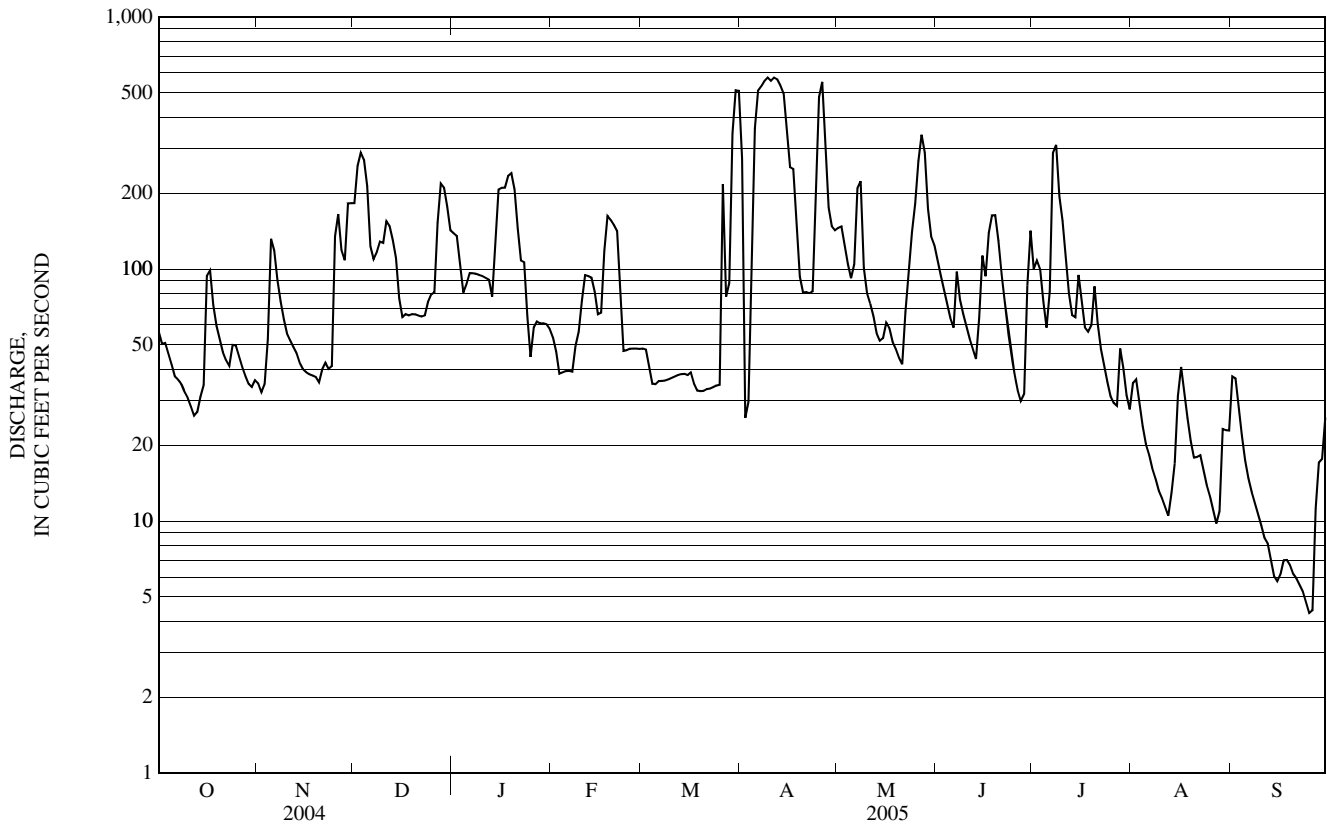
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1989, 1996 - 2005, BY WATER YEAR (WY)

MEAN	46.8	73.6	81.7	63.7	68.4	133	252	118	61.5	28.8	22.4	25.0
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)

01158600 OTTER BROOK BELOW OTTER BROOK DAM NEAR KEENE, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1958-89,1996-2005	
ANNUAL TOTAL	32,248		34,945.6		81.2	
ANNUAL MEAN	88.1		95.7		23.2	
HIGHEST ANNUAL MEAN					126	1960
LOWEST ANNUAL MEAN					0.30	1965
HIGHEST DAILY MEAN	601	Apr 6	a 575	Apr 9	685	Apr 10, 1987
LOWEST DAILY MEAN	b 11	Jul 7	4.3	Sep 25	0.30	Sep 27, 1964
ANNUAL SEVEN-DAY MINIMUM	14	Jul 2	5.2	Sep 20	0.30	Oct 12, 1964
MAXIMUM PEAK FLOW			620	Apr 25	c 752	Apr 9, 1987
MAXIMUM PEAK STAGE			8.46	Apr 25	8.62	Apr 9, 1987
10 PERCENT EXCEEDS	212		210		208	
50 PERCENT EXCEEDS	50		59		41	
90 PERCENT EXCEEDS	20		17		6.2	

- a Also occurred on April 11.
- b Also occurred on July 8, 2004.
- c Includes bypass flow through spillway of the dam structure.
- e Estimated.



## 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 mi<sup>2</sup>.

PERIOD OF RECORD.--Discharge records: April 1994 to current year. Peak streamflow: Water years 1994 to current year. Miscellaneous discharge measurements only: Water year 1990. Water-quality discrete samples: Water years 1994 to 1999.

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 fair. 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, 3,330 ft<sup>3</sup>/s, Apr. 3, gage height, 4.41 ft; minimum daily discharge, 55 ft<sup>3</sup>/s, Sept. 15, 25, 26.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	441	300	1,100	805	403	309	2,590	1,130	676	1,280	182	229
2	398	307	1,580	773	380	309	1,910	1,100	580	1,090	188	296
3	372	319	1,580	724	352	288	2,580	1,020	506	1,220	173	299
4	339	342	1,410	809	342	266	2,960	966	444	677	146	251
5	305	556	1,270	874	328	272	2,540	878	392	426	127	197
6	267	675	1,020	808	320	272	2,520	744	351	394	108	153
7	229	608	774	764	320	270	2,470	754	451	716	94	114
8	211	522	818	730	322	320	2,430	910	452	726	88	97
9	204	463	890	e708	334	343	2,350	850	459	656	84	87
10	201	407	865	659	478	375	2,200	856	446	695	80	76
11	206	363	990	572	684	339	2,080	690	374	539	76	69
12	212	350	1,010	561	655	332	2,020	512	337	416	72	64
13	243	340	914	578	579	332	1,950	425	313	343	81	59
14	246	333	827	1,150	502	318	1,850	380	312	298	98	56
15	258	320	687	2,030	495	310	1,730	353	433	418	238	55
16	512	314	519	e1,680	624	310	1,540	366	452	423	318	60
17	694	299	519	e1,330	873	307	1,460	360	534	340	246	88
18	578	282	475	e939	e1,000	301	1,340	341	656	316	185	94
19	491	275	454	e860	e875	294	1,180	333	709	315	149	96
20	461	264	462	e982	e759	301	1,030	321	645	428	129	80
21	434	277	e400	e889	592	321	766	305	551	348	126	70
22	397	284	451	e832	491	354	594	377	446	266	112	63
23	369	277	506	e777	406	384	601	540	364	232	108	60
24	348	266	1,190	e584	376	369	1,470	633	304	199	101	59
25	318	525	1,180	e481	377	365	2,190	948	250	177	95	55
26	299	829	e940	e421	344	491	2,180	1,260	217	165	88	55
27	296	765	e725	e449	341	453	1,960	1,590	193	159	82	94
28	291	644	e928	e449	322	653	1,610	1,490	241	184	90	105
29	292	969	e983	e454	---	1,890	1,380	1,220	919	166	131	119
30	295	1,070	934	e445	---	2,690	1,060	978	1,500	143	142	150
31	297	---	813	e427	---	2,700	---	777	---	145	147	---
TOTAL	10,504	13,545	27,214	24,544	13,874	16,838	54,541	23,407	14,507	13,900	4,084	3,350
MEAN	339	452	878	792	496	543	1,818	755	484	448	132	112
MAX	694	1,070	1,580	2,030	1,000	2,700	2,960	1,590	1,500	1,280	318	299
MIN	201	264	400	421	320	266	594	305	193	143	72	55

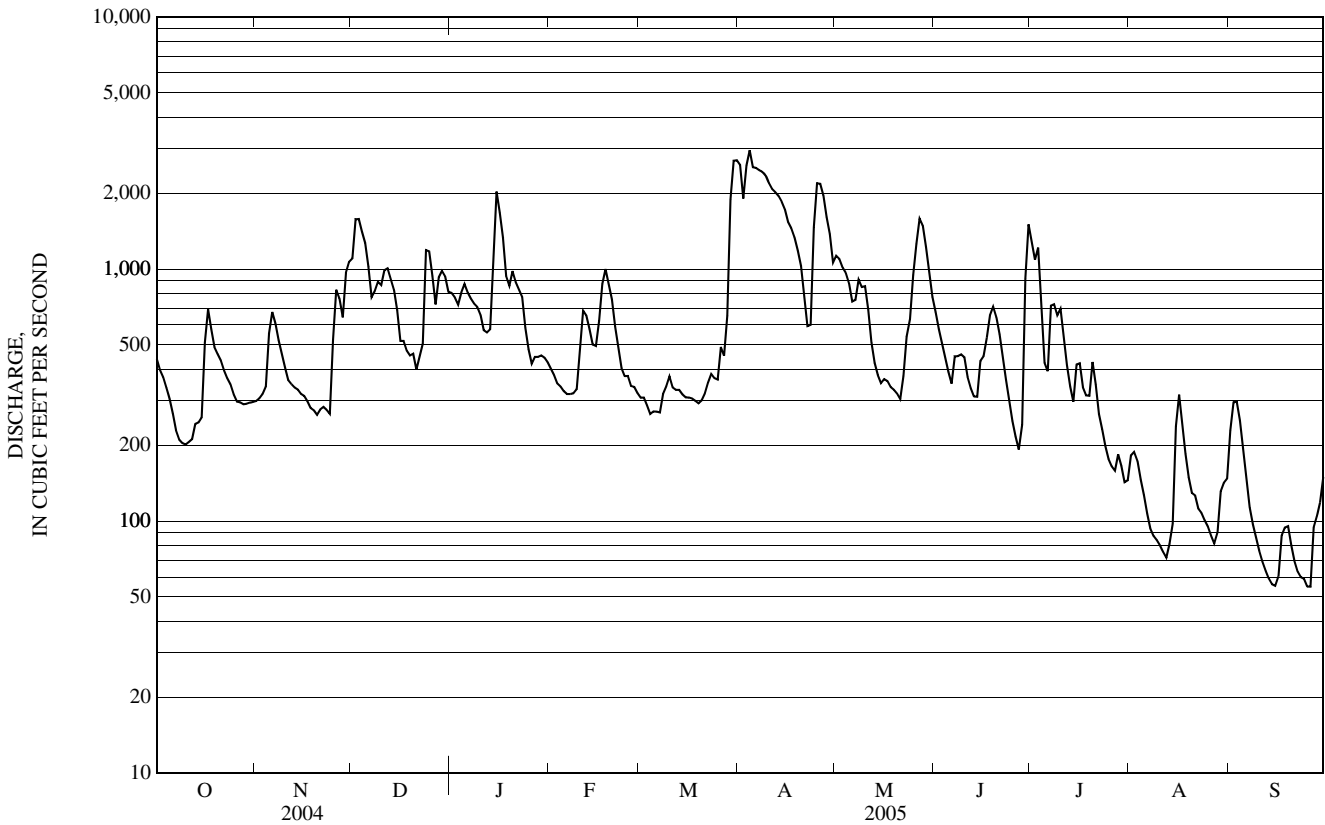
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2005, BY WATER YEAR (WY)

MEAN	341	535	654	546	438	848	1,436	736	401	198	174	185
MAX	761	1,539	1,723	1,076	1,007	1,264	2,353	1,511	1,067	448	555	540
(WY)	(1996)	(1996)	(1997)	(1996)	(1996)	(1998)	(1994)	(1996)	(1998)	(2005)	(2003)	(2004)
MIN	108	73.4	129	85.2	192	439	518	316	89.1	88.2	42.6	47.8
(WY)	(1998)	(2002)	(2002)	(2002)	(2003)	(2001)	(1995)	(1995)	(1999)	(2003)	(2002)	(1995)

01160350 ASHUELOT RIVER AT WEST SWANZEY, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1994 - 2005	
ANNUAL TOTAL	196,016		220,308			
ANNUAL MEAN	536		604		534	
HIGHEST ANNUAL MEAN					781 1996	
LOWEST ANNUAL MEAN					327 2002	
HIGHEST DAILY MEAN	3,100	Apr 2	2,960	Apr 4	a 3,370	Apr 12, 2001
LOWEST DAILY MEAN	66	Sep 7	b 55	Sep 15	20	Aug 13, 1999
ANNUAL SEVEN-DAY MINIMUM	82	Sep 2	63	Sep 10	21	Aug 7, 1999
MAXIMUM PEAK FLOW			3,330	Apr 3	3,620	Apr 17, 1996
MAXIMUM PEAK STAGE			4.41	Apr 3	c 6.30	Mar 7, 1999
10 PERCENT EXCEEDS	1,220		1,300		1,360	
50 PERCENT EXCEEDS	347		407		318	
90 PERCENT EXCEEDS	130		110		68	

- a Also occurred on Apr. 13, 2001.
- b Also occurred on Sep. 25, 26.
- c Ice jam.
- e Estimated.



## 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 mi<sup>2</sup>.

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 ft<sup>3</sup>/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 ft<sup>3</sup>/s, September 15, 1929. Maximum discharge since at least 1859, that of March 19, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,260 ft<sup>3</sup>/s, Apr. 3, gage height, 7.65 ft; minimum daily discharge, 87 ft<sup>3</sup>/s, Sept. 15, 26.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	720	341	1,480	1,040	e565	e439	3,630	1,640	990	1,930	281	238
2	643	345	2,100	1,010	e532	e434	3,390	1,590	884	2,110	308	289
3	574	352	2,010	957	e486	e407	4,740	1,440	778	1,810	282	306
4	509	372	1,740	1,060	e472	e382	4,620	1,340	685	1,260	250	286
5	433	631	1,550	1,150	e458	e378	3,580	1,270	597	829	210	249
6	380	866	1,330	1,080	e440	e386	3,220	1,110	513	734	185	214
7	335	807	1,070	1,020	e446	e382	3,090	1,070	626	1,370	159	174
8	305	699	1,130	973	e446	e489	3,000	1,200	678	1,320	148	155
9	289	599	1,230	905	e475	e531	2,890	1,210	718	1,310	138	135
10	274	521	1,220	933	e643	e562	2,700	1,160	708	1,340	132	122
11	267	436	1,460	813	e852	e522	2,520	1,060	568	1,050	126	111
12	250	414	1,460	787	e933	e522	2,410	861	483	794	117	100
13	262	396	1,290	833	e808	e522	2,320	711	449	637	121	97
14	271	384	1,150	1,620	e712	e510	2,240	629	404	554	130	90
15	306	366	e979	2,850	e687	e487	2,110	570	507	801	242	87
16	594	358	e743	2,320	e837	e466	1,900	590	630	813	386	88
17	935	344	e721	1,830	e1,100	e461	1,780	583	716	641	346	103
18	831	326	e668	1,290	1,380	474	1,680	531	874	582	268	125
19	709	320	e640	1,140	1,190	452	1,500	500	930	646	219	128
20	662	307	634	1,300	1,060	468	1,350	472	901	667	190	121
21	607	320	e533	1,260	950	509	1,130	436	803	627	178	112
22	537	331	e628	1,120	e696	580	928	510	670	454	170	105
23	476	329	e652	1,090	e574	659	907	778	539	384	150	98
24	438	320	1,630	e808	e533	632	2,120	881	424	333	140	92
25	394	628	1,650	e684	e516	617	2,850	1,120	354	291	131	90
26	360	1,030	1,260	e584	e500	696	2,730	1,440	304	266	123	87
27	345	1,020	1,070	e614	e474	e692	2,500	1,890	272	255	115	111
28	336	915	876	e608	e449	e949	2,250	1,880	334	296	118	127
29	326	1,250	1,120	e626	---	3,350	1,960	1,600	1,110	283	164	140
30	332	1,370	1,210	e614	---	3,920	1,570	1,330	1,890	242	184	173
31	338	---	1,060	e587	---	3,750	---	1,110	---	230	194	---
TOTAL	14,038	16,697	36,294	33,506	19,214	25,628	73,615	32,512	20,339	24,859	5,905	4,353
MEAN	453	557	1,171	1,081	686	827	2,454	1,049	678	802	190	145
MAX	935	1,370	2,100	2,850	1,380	3,920	4,740	1,890	1,890	2,110	386	306
MIN	250	307	533	584	440	378	907	436	272	230	115	87

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1907 - 1912, 1914 - 2005, BY WATER YEAR (WY)

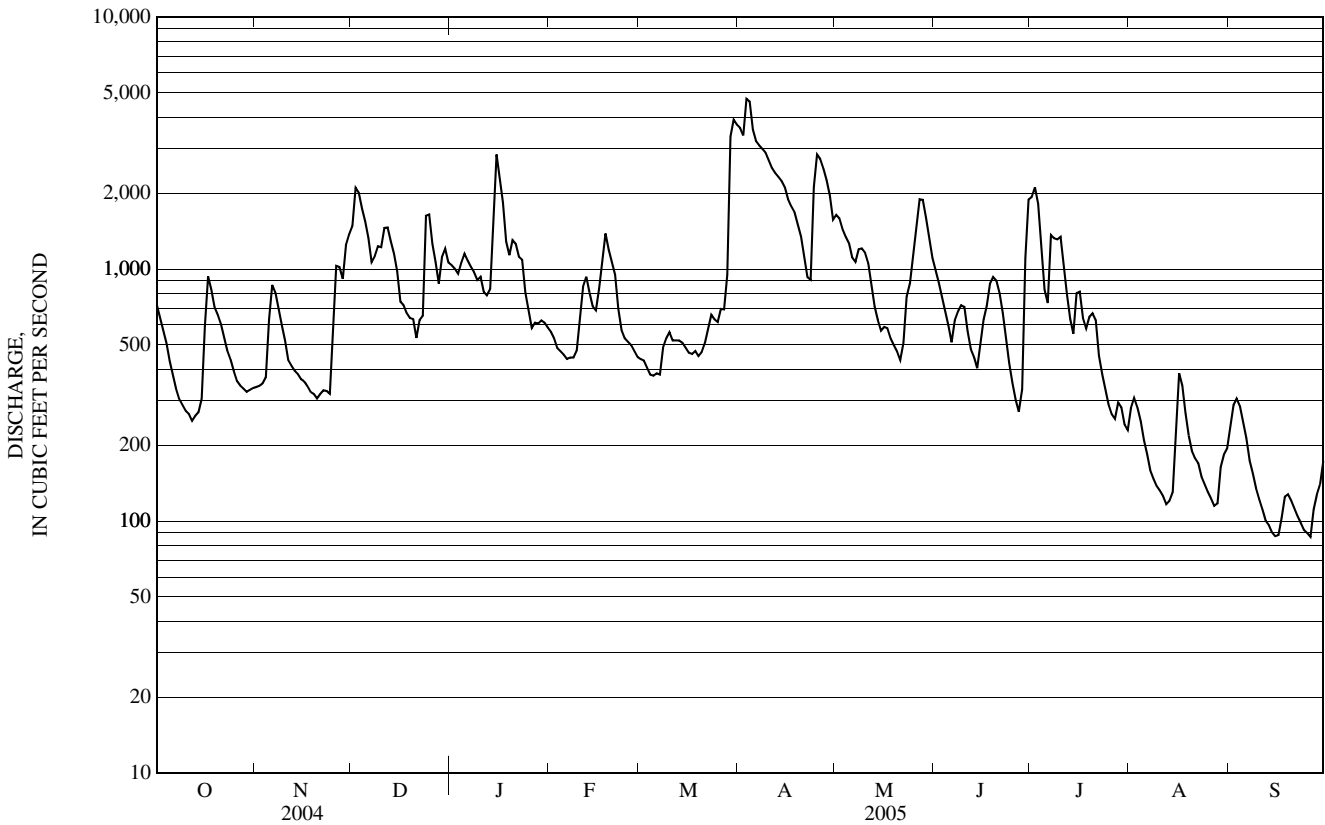
MEAN	350	593	676	607	598	1,232	1,888	991	525	279	230	248
MAX	1,474	2,248	2,209	1,539	2,016	4,392	3,723	2,175	2,075	1,182	1,098	2,394
(WY)	(1976)	(1928)	(1997)	(1978)	(1984)	(1936)	(1960)	(1945)	(1984)	(1915)	(1990)	(1938)
MIN	49.2	55.4	113	84.0	113	273	597	335	96.9	60.8	50.5	53.0
(WY)	(1965)	(1965)	(1915)	(1981)	(1980)	(1940)	(1985)	(1985)	(1964)	(1965)	(1966)	(1995)

CONNECTICUT RIVER BASIN

01161000 ASHUELOT RIVER AT HINSDALE, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1907-12,1914-2005	
ANNUAL TOTAL	270,378		306,960			
ANNUAL MEAN	739		841		684	
HIGHEST ANNUAL MEAN					1,093	1960
LOWEST ANNUAL MEAN					216	1965
HIGHEST DAILY MEAN	4,440	Apr 2	4,740	Apr 3	16,500	Mar 19, 1936
LOWEST DAILY MEAN	115	Sep 8	a 87	Sep 15	12	Sep 15, 1929
ANNUAL SEVEN-DAY MINIMUM	140	Aug 8	97	Sep 11	32	Aug 16, 1966
MAXIMUM PEAK FLOW			5,260	Apr 3	b 16,600	Mar 19, 1936
MAXIMUM PEAK STAGE			7.65	Apr 3	c 20.20	Mar 19, 1936
10 PERCENT EXCEEDS	1,640		1,790		1,720	
50 PERCENT EXCEEDS	509		617		380	
90 PERCENT EXCEEDS	195		162		97	

- a Also occurred on Sep. 26.
- b By computation of peak flow over dam as explained above.
- c From floodmarks as explained above.
- e Estimated.



## 01334000 WALLOOMSAC RIVER NEAR NORTH BENNINGTON, VT

LOCATION.--Lat 42° 54'46", long 73° 15'25", Bennington County, Hydrologic Unit 02020003, on left bank, 500 ft downstream of River Road Covered bridge, 700 ft downstream of Old Mill Dam, 0.6 mi downstream from Paran Creek, 1.4 mi south of State Highway 67 and 67A intersection in North Bennington, and 3.9 mi northwest of Town Hall in Bennington.

DRAINAGE AREA.--111 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 781: 1933(M).

GAGE.--Water-stage recorder. 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 poor. Occasional diurnal fluctuation at low flow caused by mills upstream; diurnal fluctuation greater prior to 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Jan 14	1045	*4,770	*8.74	Jul 2	0015	2,060	5.65
Apr 3	0800	3,710	7.63				

Minimum discharge, 43 ft<sup>3</sup>/s, Sept. 13, 14, gage height, 1.63 ft.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	273	107	615	e204	e173	135	711	351	132	312	104	237
2	193	100	588	e188	e162	133	972	296	123	889	91	115
3	190	151	386	e240	e156	125	2,510	277	117	273	76	80
4	165	141	312	e346	e144	124	1,110	248	111	178	69	67
5	145	270	273	282	e144	e122	669	231	107	154	63	61
6	135	187	239	242	148	120	613	212	114	159	60	58
7	128	153	237	225	147	133	760	201	166	170	57	53
8	123	135	323	207	155	e193	1,330	197	122	146	54	51
9	121	125	277	196	175	e172	810	184	170	268	53	49
10	117	119	268	193	348	e172	617	175	127	355	52	47
11	116	119	297	182	242	150	530	173	116	203	50	46
12	111	120	306	189	191	145	428	168	145	155	50	45
13	107	115	255	354	172	134	374	150	193	131	105	44
14	104	107	226	2,340	155	129	340	151	141	125	78	44
15	108	106	188	948	240	127	312	167	140	167	112	94
16	237	105	182	553	293	127	287	188	92	134	84	79
17	189	103	184	e366	308	127	275	158	499	117	75	64
18	149	104	159	e231	224	128	264	141	243	111	63	58
19	148	119	171	e174	178	130	248	134	163	113	57	56
20	161	104	150	e244	177	130	238	126	135	103	59	53
21	138	141	e156	e232	164	151	257	123	124	90	105	53
22	127	133	e181	e188	166	173	221	175	119	82	84	49
23	122	115	e530	e196	160	165	279	197	115	79	64	47
24	118	111	e831	e211	145	151	711	206	110	72	57	47
25	116	438	e319	e210	145	152	487	229	100	69	53	46
26	115	378	e255	e195	137	151	358	193	93	67	51	62
27	147	232	e234	e186	135	156	313	177	85	145	50	247
28	111	446	e202	e178	132	560	421	161	88	208	57	122
29	104	688	e190	e241	---	1,070	315	157	130	107	84	113
30	103	370	e160	e198	---	698	281	152	190	83	91	135
31	110	---	e155	e254	---	608	---	138	---	78	87	---
TOTAL	4,331	5,642	8,849	10,193	5,116	6,791	17,041	5,836	4,310	5,343	2,195	2,322
MEAN	140	188	285	329	183	219	568	188	144	172	70.8	77.4
MAX	273	688	831	2,340	348	1,070	2,510	351	499	889	112	247
MIN	103	100	150	174	132	120	221	123	85	67	50	44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2005, BY WATER YEAR (WY)

MEAN	152	211	217	197	180	320	533	321	182	124	107	118
MAX	418	412	477	425	575	958	1,008	742	436	311	481	585
(WY)	(1976)	(1960)	(2004)	(1937)	(1981)	(1936)	(1969)	(1943)	(1998)	(1935)	(1976)	(1938)
MIN	30.9	39.6	94.6	61.6	54.2	68.0	215	116	53.1	39.8	41.2	25.6
(WY)	(1965)	(1965)	(1948)	(1965)	(1980)	(1965)	(1946)	(1987)	(1964)	(1964)	(1964)	(1964)



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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1931 - 2005	
ANNUAL TOTAL	85,267		77,969			
ANNUAL MEAN	233		214		222	
HIGHEST ANNUAL MEAN					362	1976
LOWEST ANNUAL MEAN					98.9	1965
HIGHEST DAILY MEAN	1,720	Sep 18	2,510	Apr 3	6,350	Dec 31, 1948
LOWEST DAILY MEAN	76	Jul 13	a 44	Sep 13	b 21	Sep 22, 1964
ANNUAL SEVEN-DAY MINIMUM	86	Feb 23	47	Sep 8	22	Sep 20, 1964
MAXIMUM PEAK FLOW			4,770	Jan 14	c 8,450	Sep 21, 1938
MAXIMUM PEAK STAGE			8.74	Jan 14	12.04	Sep 21, 1938
INSTANTANEOUS LOW FLOW			d 43	Sep 13	4.0	Sep 27, 1932
10 PERCENT EXCEEDS	427		361		456	
50 PERCENT EXCEEDS	164		152		144	
90 PERCENT EXCEEDS	102		64		57	

- a Also occurred on September 14.
- b Also occurred on September 23, 1964 and July 12, 1965.
- c From rating curve extended above 2,800 ft<sup>3</sup>/s on basis of contracted-opening measurements at gage heights 10.13 ft, 10.49 ft, 11.50 ft, and 12.04 ft, and slope-area measurement and computation of flow over dam at gage height 12.04 ft.
- d Also occurred on September 14.
- e Estimated.

