

Water-Data Report 2013

01138500 CONNECTICUT RIVER AT WELLS RIVER, VT

Upper Connecticut Basin
Upper Connecticut Subbasin

LOCATION.--Lat 44°09'12", long 72°02'32" referenced to North American Datum of 1927, Orange County, Hydrologic Unit 01080101, on right bank, at village of Wells River, 200 ft downstream from bridge on US 302, 400 ft upstream from Wells River, 1,200 ft downstream from Ammonoosuc River, and at mile 266.0.

DRAINAGE AREA.--2,644 mi².

SURFACE-WATER RECORDS

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

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.

COOPERATION.--New Hampshire Department of Environmental Services.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,900 ft³/s, May 26, gage height, 9.81 ft; minimum daily discharge, 1,270 ft³/s, Sept. 9.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,350	9,060	2,430	2,690	7,830	2,330	6,610	4,470	7,300	9,000	2,500	2,120
2	2,750	7,040	2,500	3,000	5,000	2,330	7,170	4,020	5,410	12,800	2,690	1,960
3	2,570	4,890	3,230	3,460	5,870	2,290	5,330	4,050	7,650	20,000	2,290	2,550
4	2,980	4,060	3,180	2,560	6,550	2,360	5,740	3,870	6,970	16,100	2,510	2,030
5	3,400	3,160	3,600	3,040	5,810	2,420	5,180	3,720	6,130	13,100	2,720	1,890
6	3,230	3,730	5,780	2,700	6,010	2,370	5,080	3,630	5,970	12,200	2,430	1,730
7	3,170	4,490	6,320	2,660	5,160	2,350	5,140	3,540	3,950	7,350	2,010	1,520
8	2,750	3,620	5,420	2,660	5,280	2,890	5,770	3,410	6,170	6,110	3,120	1,580
9	4,340	3,250	5,700	2,580	5,350	2,370	6,280	3,390	8,530	9,440	5,030	1,270
10	3,480	2,530	5,710	2,790	5,360	2,240	8,830	3,650	7,210	7,910	6,070	1,840
11	4,070	2,520	6,650	2,770	4,770	2,520	10,900	3,710	7,930	10,000	2,680	1,560
12	4,970	2,570	5,520	2,700	3,630	4,180	11,600	4,820	13,300	9,410	3,540	2,500
13	4,750	2,990	4,730	2,770	3,090	12,600	9,450	3,820	12,500	6,270	3,080	8,150
14	5,060	3,980	4,460	3,180	3,480	9,820	8,430	4,620	9,970	5,590	2,650	8,370
15	5,630	3,130	4,010	4,380	3,620	8,490	8,430	4,690	6,980	6,140	1,920	8,390
16	5,050	2,920	3,500	3,840	3,390	8,010	8,750	4,610	4,240	5,870	2,010	8,290
17	3,100	2,590	3,330	3,360	3,340	6,680	11,600	3,220	5,200	4,060	1,870	5,940
18	3,260	2,530	4,130	3,080	4,250	5,730	11,700	2,990	5,940	8,510	1,890	4,500
19	3,900	3,130	4,170	3,860	3,240	5,440	12,300	2,950	5,390	6,860	2,190	3,930
20	4,020	2,600	4,520	2,840	2,840	5,160	20,000	3,090	4,220	5,580	2,680	3,580
21	3,320	2,430	4,420	3,990	2,850	4,500	20,400	4,070	2,610	3,900	2,960	2,400
22	2,840	2,380	8,910	5,610	2,590	3,060	17,300	7,740	3,480	2,940	1,600	2,950
23	2,580	2,360	7,780	5,340	2,490	3,250	11,300	13,800	4,030	4,540	1,410	4,200
24	2,510	2,370	4,820	3,670	2,510	3,030	9,110	17,000	7,600	5,480	1,380	3,170
25	2,550	2,440	3,850	4,150	2,500	2,940	6,000	23,900	5,850	4,380	1,420	4,670
26	4,620	2,310	3,470	3,160	2,490	2,850	6,890	29,200	8,350	4,550	1,520	3,590
27	4,540	2,890	3,970	2,650	2,460	3,810	5,120	26,900	9,440	3,370	2,160	3,020
28	2,510	2,930	3,440	3,510	2,420	2,860	4,820	24,000	9,250	2,730	1,560	2,720
29	2,420	2,580	3,050	3,220	---	2,980	6,000	15,800	7,670	2,980	1,730	2,560
30	6,110	2,500	2,730	2,540	---	4,020	4,870	11,900	8,540	3,120	1,730	3,530
31	10,900	---	2,710	8,110	---	4,700	---	8,740	---	1,990	1,810	---
Total	119,730	99,980	138,040	106,870	114,180	130,580	266,100	259,320	207,780	222,280	75,160	106,510
Mean	3,862	3,333	4,453	3,447	4,078	4,212	8,870	8,365	6,926	7,170	2,425	3,550
Max	10,900	9,060	8,910	8,110	7,830	12,600	20,400	29,200	13,300	20,000	6,070	8,390
Min	2,350	2,310	2,430	2,540	2,420	2,240	4,820	2,950	2,610	1,990	1,380	1,270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4,094	5,012	4,879	3,993	3,786	5,948	12,580	8,418	4,623	3,088	2,729	2,561
Max	12,850	11,340	11,320	8,955	10,050	13,420	20,110	17,120	10,450	8,566	10,880	10,810
(WY)	(2006)	(2006)	(1974)	(2006)	(1981)	(1979)	(1954)	(1972)	(2002)	(1996)	(2008)	(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)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1950 - 2013	
Annual total	1,552,090		1,846,530			
Annual mean	4,241		5,059		5,148	
Highest annual mean					7,423 2011	
Lowest annual mean					3,211 1965	
Highest daily mean	19,800	Mar 20	29,200	May 26	50,600	Mar 27, 1953
Lowest daily mean	1,180	Aug 24	1,270	Sep 9	152	Aug 28, 1960
Annual seven-day minimum	1,280	Aug 22	1,580	Aug 22	522	Aug 1, 1955
Maximum peak flow			29,900	May 26	57,100	Jul 1, 1973
Maximum peak stage			9.81	May 26	^a 17.35 Jul 1, 1973	
10 percent exceeds	8,980		9,020		10,700	
50 percent exceeds	3,100		3,840		3,690	
90 percent exceeds	1,530		2,360		1,370	

^a From peak stage indicator.

