01144000 WHITE RIVER AT WEST HARTFORD, VT

Upper Connecticut Basin
White Subbasin

LOCATION.--Lat 43°42′51″, long 72°25′07″ referenced to North American Datum of 1927, 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^2.

SURFACE-WATER RECORDS

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.

COOPERATION.--Vermont Department of Environmental Conservation.

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^3/s, November 4, 1927, gage height, 29.3 ft, from floodmarks, from rating curve extended above 29,000 ft^3/s on basis of slope-area measurement of peak flow at 28.34 ft and 29.3 ft; minimum observed, about 35 ft^3/s, August 4, 1918; minimum daily discharge, 54 ft^3/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^3/s and (or) maximum (*):

[e, estimated]

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 1	1545	21,900	14.04
Oct 15	2015	11,700	10.63
Apr 12	0845	20,600	13.64
Apr 26	1100	16,000	12.19
Apr 28	2215	14,700	11.74
Aug 29	e0130	*90,100	*28.36

Minimum discharge, 261 ft^3/s, Aug. 6, gage height, 3.17 ft.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 01144000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01144000.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	12,100	1,780	2,760	e1,050	e555	e590	1,720	4,070	1,880	1,120	426	2,720
2	6,500	1,610	7,520	e1,400	e565	e570	1,730	3,430	1,740	984	355	2,470
3	2,540	1,480	3,570	e1,350	e585	e540	1,860	3,080	1,630	897	313	e2,010
4	1,700	1,550	2,690	e1,100	e580	e520	2,010	3,680	1,450	986	289	e1,580
5	1,330	3,600	2,260	e1,100	e570	e500	2,430	4,620	1,350	798	275	e1,720
6	1,180	3,060	1,970	e870	e590	e2,900	3,430	3,560	1,250	703	271	e3,180
7	3,260	2,270	1,780	e870	e580	6,110	2,820	3,000	1,170	1,660	290	2,870
8	2,360	2,020	1,590	e900	e570	2,920	2,850	2,670	1,090	972	327	3,490
9	1,780	2,070	1,390	e900	e525	2,250	3,170	2,410	1,030	984	292	2,580
10	1,460	2,050	e960	e830	e530	2,000	4,250	2,170	1,530	818	790	e1,980
11	1,240	1,830	e1,400	e770	e510	2,630	12,000	2,000	1,350	673	1,170	e1,500
12	1,080	1,650	e1,600	e730	e510	4,590	17,600	1,870	1,890	606	650	e1,330
13	968	1,540	e6,600	e760	e520	3,330	11,700	1,760	1,860	573	471	e1,260
14	882	1,430	4,380	e760	e525	2,750	9,410	1,680	2,470	556	391	e1,200
15	5,110	1,350	2,650	e690	e560	2,260	7,690	1,960	2,270	499	761	e1,220
16	6,460	1,280	2,250	e750	e525	2,180	5,810	5,190	1,620	449	4,460	e1,490
17	3,890	2,530	2,070	e660	e535	2,080	7,080	5,460	1,290	415	2,440	e1,290
18	2,780	2,910	1,930	e640	e645	4,450	6,990	3,780	1,360	420	1,290	e1,120
19	2,210	2,100	1,770	e730	e980	6,960	5,270	3,940	1,330	561	915	e1,010
20	1,890	1,800	1,620	e715	e780	4,060	5,930	4,120	1,180	436	740	e950
21	1,700	1,590	1,540	e690	e720	3,370	6,270	4,220	1,070	384	673	e951
22	1,830	1,480	1,450	e635	e640	2,900	4,630	3,300	982	354	3,040	e936
23	1,550	1,700	1,370	e630	e615	2,530	4,330	2,880	2,870	324	1,440	e1,300
24	1,400	1,810	1,270	e585	e615	e2,200	4,510	2,760	3,370	299	995	e1,410
25	1,570	1,490	e1,000	e625	e620	2,040	4,900	2,570	3,500	282	778	e1,480
26	2,610	1,520	e1,050	e650	e595	1,780	11,400	2,400	3,450	463	748	e1,240
27	4,150	1,620	e870	e635	e585	1,720	8,420	5,090	2,350	554	654	e1,070
28	3,550	1,350	e920	e605	e575	1,620	10,500	3,570	1,710	407	e22,900	e927
29	2,500	1,260	e1,050	e585	---	1,560	8,910	3,180	1,510	364	e33,100	e1,490
30	2,200	1,190	e1,050	e585	---	1,490	5,270	2,570	1,290	1,190	5,820	4,350
31	2,060	---	e1,000	e560	---	1,600	---	2,180	---	593	3,590	---
Total	85,840	54,920	65,330	24,360	16,705	77,000	184,890	99,170	52,842	20,324	90,654	52,124
Mean	2,769	1,831	2,107	786	597	2,484	6,163	3,199	1,761	656	2,924	1,737
Max	12,100	3,600	7,520	1,400	980	6,960	17,600	5,460	3,500	1,660	33,100	4,350
Min	882	1,190	870	560	510	500	1,720	1,680	982	282	271	927
Cfsm	4.01	2.65	3.05	1.14	0.86	3.60	8.93	4.64	2.55	0.95	4.24	2.52
In.	4.63	2.96	3.52	1.31	0.90	4.15	9.97	5.35	2.85	1.10	4.89	2.81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	744	1,083	1,082	906	809	1,926	3,917	1,977	937	548	439	420
Max	2,769	2,985	3,189	2,816	3,503	7,170	7,286	4,734	3,459	2,115	2,924	2,774
(WY)	(2011)	(2006)	(1984)	(2006)	(1981)	(1936)	(1969)	(1940)	(1947)	(2009)	(2011)	(1938)
Min	80.0	204	237	197	169	222	1,131	634	224	108	90.5	77.5
(WY)	(1964)	(2002)	(1923)	(1925)	(1940)	(1940)	(1995)	(1941)	(1921)	(1965)	(1965)	(1963)

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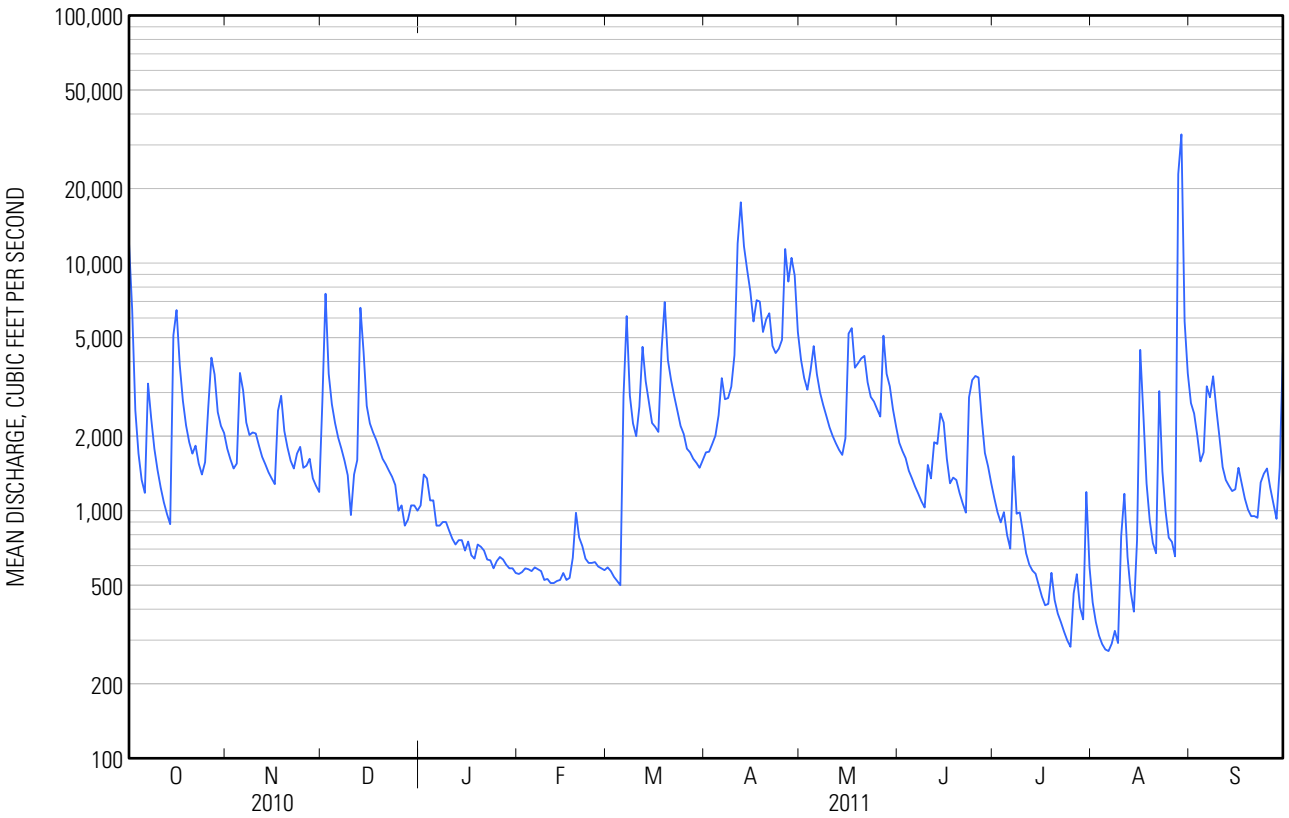
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1915 - 2011	
Annual total	565,620		824,159			
Annual mean	1,550		2,258		1,231	
Highest annual mean					2,258	2011
Lowest annual mean					494	1965
Highest daily mean	14,000	Mar 23	[e]33,100	Aug 29	[e]33,100	Aug 29, 2011
Lowest daily mean	171	Sep 27	271	Aug 6	54	Sep 27, 1963[a]
Annual seven-day minimum	201	Sep 21	294	Aug 3	59	Sep 22, 1963
Maximum peak flow			[b]90,100	Aug 29	[b]120,000	Nov 4, 1927
Maximum peak stage			[c]28.36	Aug 29	[c]29.30	Nov 4, 1927
Instantaneous low flow			261	Aug 6	[d]35	Aug 4, 1918
Annual runoff (cfsm)	2.25		3.27		1.78	
Annual runoff (inches)	30.49		44.43		24.24	
10 percent exceeds	3,390		4,450		2,800	
50 percent exceeds	1,020		1,510		660	
90 percent exceeds	357		555		196	

[e] Estimated
[a] Also September 28,1963.
[b] From rating curve extended above 29,000 ft³/s as explained in the Extremes for Period of Record.
[c] From floodmarks.
[d] About.