Water-Data Report 2011

05369000 RED CEDAR RIVER AT MENOMONIE, WI

Chippewa Basin
Red Cedar Subbasin

LOCATION.--Lat 44°52′31″, long 91°56′17″ referenced to North American Datum of 1983, in SE ¼ SE ¼ sec.27, T.28 N., R.13 W., Dunn County, WI, Hydrologic Unit 07050007, on right bank at County P at Menomonie, 1 mi downstream from powerplant of Northern States Power Co., and ¼ mi upstream from Gilbert Creek.

DRAINAGE AREA.--1,770 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1907 to September 1908, May 1913 to current year. Monthly discharge only for June 1907 to September 1908, published in WSP 1308. Unpublished daily discharge from June 1907 to September 1908 in District files. Monthly average data was published outside the period of daily data collection. These monthly data are not included in the monthly mean statistics.

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 767.38 ft above NAVD of 1988 (Northern States Power Co. bench mark). Prior to Sept. 3, 1908, nonrecording gage 0.2 mi downstream at different datum. May 9, 1913, to Sept. 30, 1923, water-stage recorder 0.8 mi upstream at datum 779.06 above NGVD of 1929. Oct. 1, 1923 to Sept. 30, 2004, water-stage recorder 0.8 mi upstream at datum 779.48 above NGVD of 1929.

REMARKS.--Records good. Flow regulated by powerplants at Menomonie and Cedar Falls. Gage-height telemeter at station.

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 05369000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/05369000.2011.pdf

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,100	2,290	1,520	1,420	1,050	1,020	1,680	2,480	1,560	1,060	2,370	1,050
2	1,730	2,000	1,080	1,200	968	1,170	1,920	2,500	1,540	994	2,260	1,240
3	1,720	1,530	711	1,170	923	1,010	2,460	2,310	1,300	928	2,200	1,210
4	1,510	1,550	1,010	1,200	905	1,210	3,160	2,110	1,180	851	3,510	1,250
5	1,300	1,500	1,030	1,140	1,060	1,110	4,400	2,040	1,260	885	3,440	1,180
6	1,340	1,370	1,180	1,060	1,100	1,100	4,920	1,770	1,240	1,110	2,990	1,040
7	1,210	1,230	1,040	1,160	1,030	1,070	4,970	1,710	1,240	964	2,510	1,030
8	1,590	1,150	909	1,150	964	1,130	4,720	1,500	1,200	930	2,230	1,090
9	1,310	1,250	825	1,060	878	1,170	4,430	1,650	1,100	999	2,230	1,110
10	1,420	1,250	871	1,030	909	1,130	4,350	2,320	1,130	1,040	2,330	1,090
11	1,220	1,280	1,300	1,040	976	1,130	4,260	2,430	1,320	1,220	1,670	980
12	1,250	1,590	905	1,230	971	1,140	3,970	2,310	1,110	1,150	1,510	981
13	991	1,710	768	1,110	972	1,130	3,440	1,940	1,060	1,100	1,540	975
14	1,360	1,720	801	1,030	974	1,100	3,180	1,740	1,030	995	1,520	961
15	1,040	1,880	968	1,050	1,120	1,040	3,290	1,590	1,340	1,110	1,500	874
16	1,230	1,670	1,070	1,050	1,000	1,150	2,500	1,550	1,270	2,050	1,340	832
17	1,030	1,600	1,070	1,040	1,220	1,240	2,730	1,470	1,360	1,910	1,550	894
18	1,140	1,600	1,230	971	1,220	1,500	2,460	1,610	1,230	2,910	1,440	1,040
19	1,170	1,600	1,110	1,130	1,210	1,870	2,150	1,510	1,480	2,030	1,350	1,060
20	1,080	1,460	1,110	1,080	1,270	2,250	2,010	1,590	1,850	1,560	1,240	871
21	1,040	1,280	1,210	860	1,180	3,140	1,830	1,450	1,980	1,710	1,230	1,170
22	1,080	1,360	1,110	965	900	4,000	1,910	1,540	2,350	1,370	1,140	1,160
23	1,170	1,260	1,120	1,110	1,130	4,640	1,660	2,020	2,350	1,470	1,230	1,020
24	1,210	1,320	1,230	933	1,330	3,180	1,870	2,590	1,960	1,490	1,270	991
25	1,260	1,130	1,130	1,070	1,270	3,310	1,860	2,400	1,980	2,010	1,130	948
26	1,610	1,070	1,100	1,030	1,130	2,750	2,470	2,230	1,540	2,120	1,290	1,010
27	1,680	848	1,180	902	906	2,430	2,760	1,910	1,430	2,010	1,280	925
28	2,320	1,090	1,170	1,080	878	2,360	3,510	1,710	1,510	1,550	1,250	997
29	2,450	1,390	1,130	1,050	---	2,200	2,840	1,590	1,400	1,520	1,080	1,000
30	2,150	1,540	1,140	1,050	---	1,800	3,080	1,530	1,280	1,390	1,050	1,030
31	2,330	---	1,160	1,080	---	1,440	---	1,540	---	1,680	1,060	---
Total	45,041	43,518	33,188	33,451	29,444	55,920	90,790	58,640	43,580	44,116	53,740	31,009
Mean	1,453	1,451	1,071	1,079	1,052	1,804	3,026	1,892	1,453	1,423	1,734	1,034
Max	2,450	2,290	1,520	1,420	1,330	4,640	4,970	2,590	2,350	2,910	3,510	1,250
Min	991	848	711	860	878	1,010	1,660	1,450	1,030	851	1,050	832
In.	0.95	0.91	0.70	0.70	0.62	1.18	1.91	1.23	0.92	0.93	1.13	0.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1907 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,179	1,177	987	911	974	1,925	2,334	1,526	1,481	1,129	1,013	1,199
Max	2,806	2,521	2,316	1,317	2,047	4,142	6,819	3,423	3,702	2,926	2,237	3,091
(WY)	(1969)	(1992)	(1966)	(1973)	(1966)	(1973)	(1965)	(2003)	(1943)	(1968)	(1995)	(1938)
Min	528	566	541	532	536	921	664	612	425	421	383	493
(WY)	(1933)	(1937)	(1933)	(1959)	(1959)	(1956)	(1930)	(1934)	(1934)	(1934)	(1934)	(1933)

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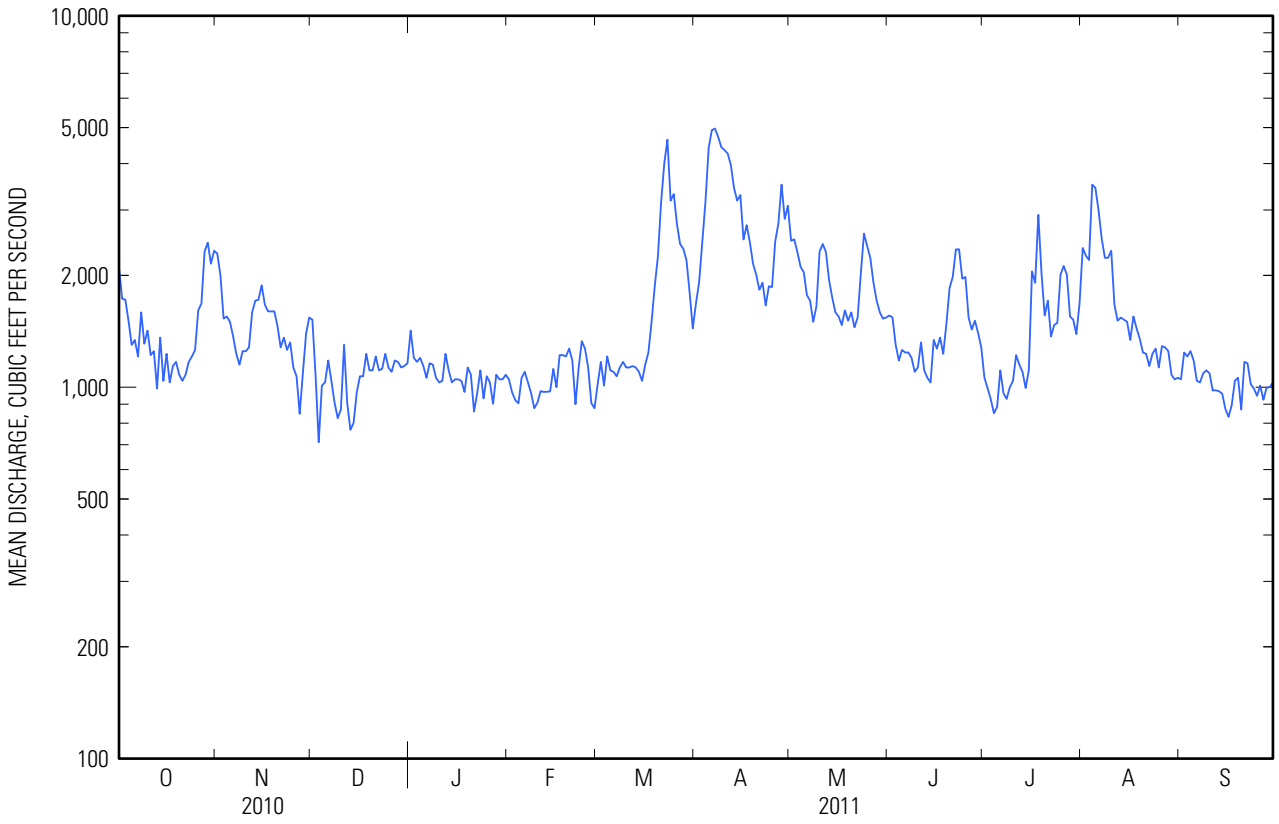
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1907 - 2011	
Annual total	471,169		562,437			
Annual mean	1,291		1,541		1,322	
Highest annual mean					2,016	2002
Lowest annual mean					711	1931
Highest daily mean	6,990	Mar 14	4,970	Apr 7	29,000	Apr 4, 1934
Lowest daily mean	600	Jan 6	711	Dec 3	100	Nov 8, 1907
Annual seven-day minimum	685	Jan 29	911	Dec 8	310	Sep 8, 1934
Maximum peak flow			5,360	Apr 6	[a]40,000	Apr 4, 1934
Maximum peak stage			10.06	Apr 6	[b]16.00	Apr 4, 1934
Annual runoff (inches)	9.90		11.82		10.15	
10 percent exceeds	1,910		2,440		2,200	
50 percent exceeds	1,090		1,250		1,070	
90 percent exceeds	724		972		646	

[a] From rating curve extended above 27,000 ft³/s on basis of computed flow over Cedar Falls Dam, 6 mi upstream.
[b] From floodmarks, datum then in use.