Water-Data Report 2007

05395000 WISCONSIN RIVER AT MERRILL, WI

Wisconsin Basin
Lake Dubay Subbasin

LOCATION.--Lat 45°10′42″, long 89°40′54″ referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.12, T.31 N., R.6 E., Lincoln County, WI, Hydrologic Unit 07070002, on left bank 300 ft downstream from U.S. Highway 51 bridge at east end of Merrill, and 0.5 mi downstream from Prairie River.

DRAINAGE AREA.--2,760 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1902 to current year. Monthly discharge data for some periods from December 1902 to September 1909 published in WSP 1308. These monthly discharges are not included in the monthly mean discharge statistics. Mostly seasonal unpublished daily discharge records from December 1902 to September 1905 in District files.

REVISED RECORDS.--WSP 1308: 1904-7, 1909-11, 1913. WSP 1508: 1908, 1915-16(M), 1917, 1920-21(M), 1925(M), 1930, 1935-36. WDR WI-77-1: Drainage area.

GAGE.--Water-stage recorder and crest stage gage. Datum of gage is 1,228.85 ft above NGVD of 1929. Prior to June 18, 1903, nonrecording gage at different datum. June 18, 1903, to Sept. 10, 1914, non recording gage at present datum.

REMARKS.--Records good except those for estimated daily discharges which are fair. Flow regulated by 20 reservoirs and 9 powerplants upstream from station. Gage-height telemeter at station.

05395000 WISCONSIN RIVER AT MERRILL, WI—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

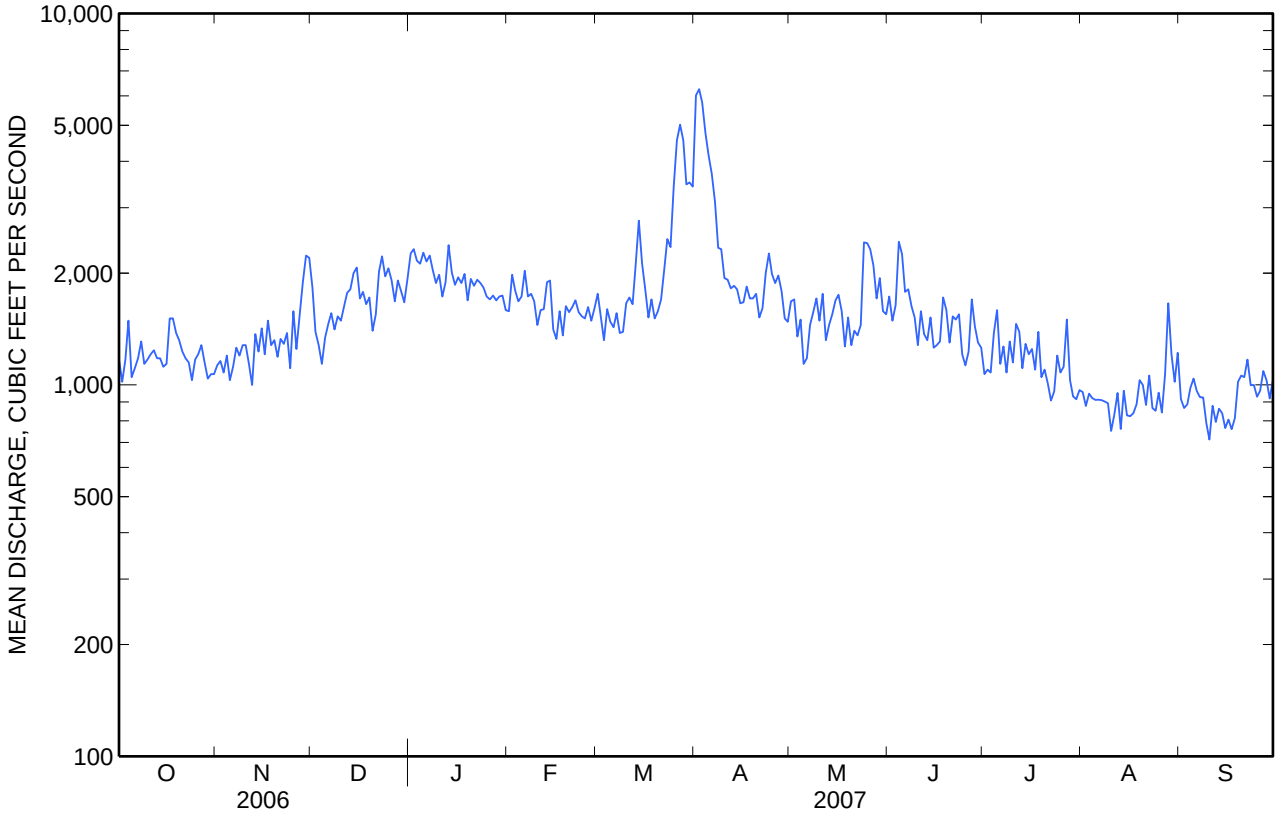
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,170	1,130	1,830	2,260	e1,580	e1,760	6,020	1,680	1,730	1,070	957	916
2	1,020	1,160	1,390	2,320	e1,980	e1,530	6,260	1,700	1,490	1,100	878	867
3	1,170	1,080	1,280	2,160	e1,790	e1,320	5,760	1,350	1,640	1,080	948	887
4	1,490	1,200	1,140	2,120	e1,680	e1,600	4,780	1,500	2,430	1,380	923	981
5	1,050	1,030	1,340	2,270	e1,730	e1,480	4,150	1,140	2,250	1,590	912	1,040
6	1,110	1,120	1,460	2,150	e2,030	e1,430	3,700	1,180	1,780	1,140	913	964
7	1,180	1,260	1,560	2,230	e1,730	e1,560	3,110	1,450	1,810	1,270	910	927
8	1,310	1,200	1,410	2,040	e1,760	e1,380	2,340	1,570	1,630	1,080	902	925
9	1,140	1,280	1,530	1,880	e1,680	e1,390	2,320	1,710	1,520	1,310	893	789
10	1,170	1,280	1,490	1,980	e1,450	e1,660	1,940	1,490	1,280	1,150	752	713
11	1,210	1,140	1,630	1,730	e1,590	e1,720	1,920	1,760	1,580	1,460	833	879
12	1,240	1,000	1,770	1,890	e1,600	e1,650	1,820	1,320	1,370	1,390	951	795
13	1,180	1,370	1,810	2,380	e1,890	e2,100	1,850	1,450	1,320	1,110	761	863
14	1,180	1,230	2,000	2,010	e1,910	e2,770	1,810	1,550	1,520	1,290	965	839
15	1,120	1,420	2,070	1,860	e1,410	e2,130	1,660	1,690	1,260	1,210	828	766
16	1,140	1,210	1,710	1,950	e1,330	e1,810	1,670	1,750	1,280	1,250	824	807
17	1,510	1,490	1,780	1,880	e1,580	e1,520	1,840	1,580	1,310	1,100	840	760
18	1,510	1,280	1,650	1,990	e1,360	e1,700	1,710	1,270	1,720	1,390	888	813
19	1,380	1,320	1,720	1,690	e1,630	1,510	1,710	1,520	1,590	1,050	1,030	1,020
20	1,320	1,190	1,400	1,930	e1,570	1,580	1,760	1,280	1,300	1,100	1,000	1,060
21	1,230	1,330	1,550	e1,850	e1,620	1,700	1,520	1,400	1,530	1,010	883	1,050
22	1,180	1,290	2,020	e1,920	e1,690	2,050	1,610	1,360	1,500	908	1,060	1,170
23	1,150	1,380	2,220	e1,880	e1,570	2,470	2,000	1,450	1,550	961	867	999
24	1,030	1,110	1,960	e1,830	e1,530	2,350	2,260	2,420	1,210	1,200	852	1,000
25	1,170	1,580	2,060	e1,730	e1,510	3,420	1,990	2,410	1,130	1,080	953	930
26	1,210	1,250	1,910	e1,700	e1,620	4,560	1,880	2,320	1,230	1,120	843	965
27	1,280	1,540	1,680	e1,740	e1,490	5,020	1,970	2,100	1,700	1,500	1,070	1,090
28	1,150	1,890	1,910	e1,690	e1,610	4,550	1,790	1,710	1,440	1,030	1,660	1,030
29	1,040	2,230	1,790	e1,730	---	3,470	1,510	1,940	1,300	932	1,210	920
30	1,070	2,200	1,670	e1,740	---	3,510	1,480	1,580	1,260	915	1,020	1,030
31	1,070	---	1,930	e1,590	---	3,420	---	1,550	---	969	1,220	---
Total	37,180	40,190	52,670	60,120	45,920	70,120	76,140	50,180	45,660	36,145	29,546	27,795
Mean	1,199	1,340	1,699	1,939	1,640	2,262	2,538	1,619	1,522	1,166	953	926
Max	1,510	2,230	2,220	2,380	2,030	5,020	6,260	2,420	2,430	1,590	1,660	1,170
Min	1,020	1,000	1,140	1,590	1,330	1,320	1,480	1,140	1,130	908	752	713

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,500	2,363	2,100	2,029	1,974	2,597	4,703	3,631	3,045	2,300	2,029	2,466
Max	8,654	4,632	3,887	3,138	3,063	6,275	11,500	8,931	9,923	5,862	5,451	9,069
(WY)	(1912)	(1939)	(1992)	(1939)	(1932)	(1935)	(1916)	(1904)	(1905)	(1968)	(1912)	(1903)
Min	760	775	913	957	961	1,071	1,348	1,082	810	724	719	873
(WY)	(1977)	(1977)	(1977)	(1990)	(1990)	(1908)	(1990)	(1987)	(1988)	(1988)	(1934)	(1987)

05395000 WISCONSIN RIVER AT MERRILL, WI—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1903 - 2007	
Annual total	628,709		571,666			
Annual mean	1,722		1,566		2,580	
Highest annual mean					4,211	1904
Lowest annual mean					1,348	1977
Highest daily mean	9,210	Apr 2	6,260	Apr 2	36,400	Sep 1, 1941
Lowest daily mean	776	Sep 7	713	Sep 10	90	Sep 26, 1908
Annual seven-day minimum	921	Jul 15	806	Sep 12	194	Sep 21, 1908
Maximum peak flow			7,770	Apr 1	[a]49,400	Aug 31, 1941
Maximum peak stage			8.12	Apr 1	18.26	Aug 31, 1941
10 percent exceeds	2,270		2,120		4,370	
50 percent exceeds	1,480		1,490		2,070	
90 percent exceeds	1,080		929		1,260	

[a] From rating curve extended above 20,000 ft³/s.