

Water-Data Report 2006

**04063000 MENOMINEE RIVER NEAR FLORENCE, WI**

Northwestern Lake Michigan Basin  
Menominee Subbasin

LOCATION.--Lat 45°57'05", long 88°11'21" referenced to North American Datum of 1927, in SE ¼ sec.12, T.41 N., R.18 E., Florence County, WI, Hydrologic Unit 04030108, on right bank 0.4 mi downstream from confluence of Brule and Michigamme Rivers, 3.5 mi northeast of Florence, WI, and at mile 117.

DRAINAGE AREA.--1,760 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--January 1914 to current year. Published as "at Twin Falls near Iron Mountain, MI", January 1914 to June 1950, October 1996 to September 1998. Records published for both sites July 1950 to September 1957, October 1989 to September 1996, October 1998 to current year.

REVISED RECORDS.--WSP 1707: 1953(M). WDR MI-92-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,119.23 ft above sea level (levels by Owen Ayres Associates). Prior to July 5, 1950, headwater and tailwater gages and generation data entered hourly in daily log sheets by company employees at the We Energies Twin Falls Powerplant, 10.4 mi downstream. July 5, 1950 to Oct. 19, 2000, water-stage recorder at site 500 ft downstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Prior to July 1950, discharge determined from powerplant records computed on basis of load-discharge rating of hydroelectric units and rating for tailwater gage during periods of spill; ratings developed by U.S. Geological Survey. Flow regulated by powerplants, by Michigamme Reservoir, capacity, 119,950 acre-ft, by Peavy Pond, capacity, 33,860 acre-ft, on Michigamme River, and by many smaller reservoirs upstream from station. Several measurements of water temperature were made during the year. Gage-height telemeter at station.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	811	1,160	2,630	1,460	1,520	e1,490	2,630	1,930	2,740	1,040	1,040	859
2	813	1,110	2,590	1,460	1,420	e1,500	2,680	1,900	2,460	867	1,220	753
3	769	1,260	2,030	1,370	1,480	e1,580	2,190	2,020	2,160	944	1,030	718
4	992	1,360	1,810	1,520	e1,620	1,630	2,350	1,760	1,560	887	915	739
5	2,320	1,140	2,130	1,470	e1,550	1,620	2,430	1,810	1,700	959	1,040	730
6	3,860	1,170	1,630	1,360	1,490	1,580	2,560	1,640	1,610	806	1,030	754
7	3,890	1,150	e1,600	1,690	1,480	1,560	2,500	1,430	1,620	795	887	693
8	3,130	1,100	e1,450	1,490	e1,520	1,560	2,460	1,410	1,650	734	722	704
9	2,660	1,200	e1,680	1,560	e1,530	1,590	2,570	1,390	1,560	779	715	704
10	2,100	1,210	1,740	1,510	1,500	1,630	2,440	1,640	1,450	761	858	701
11	1,830	1,280	1,790	1,460	1,470	1,690	2,440	1,770	1,550	817	837	700
12	1,660	1,280	1,490	1,330	1,520	1,630	2,480	2,820	1,520	813	786	745
13	1,620	1,300	1,400	1,270	1,480	1,470	2,510	3,250	1,410	699	734	695
14	1,450	1,270	1,460	1,360	1,510	1,710	2,510	3,730	1,370	747	886	700
15	1,380	1,250	1,270	1,370	1,500	1,670	2,610	3,860	1,290	823	1,280	721
16	1,320	1,260	1,450	1,300	1,470	1,570	2,440	3,820	1,360	773	1,270	700
17	1,350	1,380	1,490	1,450	1,460	1,550	2,420	3,490	1,370	763	1,250	695
18	1,210	1,340	e1,400	1,420	1,400	1,640	2,350	3,270	1,420	677	1,030	697
19	1,330	1,440	e1,300	1,480	1,420	1,460	2,200	3,130	1,310	748	801	705
20	1,490	1,280	e1,500	1,390	e1,390	1,400	2,130	2,940	1,300	729	836	702
21	1,410	1,320	e1,400	1,500	e1,420	1,520	1,800	2,870	1,140	766	917	700
22	1,400	1,260	1,300	1,480	e1,450	e1,300	1,960	2,520	1,160	673	822	720
23	1,350	1,450	1,490	1,410	e1,470	1,380	1,940	1,960	e1,160	753	748	751
24	1,410	1,390	1,420	1,390	e1,470	1,350	1,920	1,690	e1,060	692	787	955
25	1,480	1,370	1,420	1,480	e1,450	1,340	1,820	1,850	e1,120	603	1,010	772
26	1,540	1,180	1,440	1,480	e1,470	e1,400	1,930	1,610	e1,050	707	1,160	708
27	1,500	1,280	1,530	1,460	e1,430	e1,400	2,020	1,630	e1,070	559	1,340	724
28	1,520	1,260	1,470	1,430	e1,440	1,400	2,000	3,310	991	558	1,250	717
29	1,510	1,930	1,590	1,360	---	1,530	1,720	3,880	1,080	594	1,120	713
30	1,380	2,530	1,520	1,590	---	1,620	1,730	4,240	919	991	991	768
31	1,360	---	1,380	1,470	---	1,920	---	4,390	---	1,570	901	---
<b>Total</b>	51,845	39,910	49,800	44,770	41,330	47,690	67,740	78,960	43,160	24,627	30,213	21,943
<b>Mean</b>	1,672	1,330	1,606	1,444	1,476	1,538	2,258	2,547	1,439	794	975	731
<b>Max</b>	3,890	2,530	2,630	1,690	1,620	1,920	2,680	4,390	2,740	1,570	1,340	955
<b>Min</b>	769	1,100	1,270	1,270	1,390	1,300	1,720	1,390	919	558	715	693

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2006, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	1,454	1,560	1,439	1,398	1,390	1,595	3,150	2,999	2,094	1,565	1,282	1,361
<b>Max</b>	3,537	3,465	2,640	2,253	2,514	3,544	8,159	6,319	5,035	4,253	2,359	3,149
<b>(WY)</b>	(1986)	(1986)	(1984)	(1983)	(1984)	(1973)	(1916)	(1960)	(1916)	(1953)	(1972)	(1968)
<b>Min</b>	726	725	765	691	647	692	735	595	799	721	545	718
<b>(WY)</b>	(1949)	(1964)	(1925)	(1924)	(1926)	(1914)	(1990)	(1987)	(1988)	(1925)	(1925)	(1925)

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SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1914 - 2006	
<b>Annual total</b>	512,732		541,988			
<b>Annual mean</b>	1,405		1,485		1,774	
<b>Highest annual mean</b>					3,069	1916
<b>Lowest annual mean</b>					922	1925
<b>Highest daily mean</b>	4,210	Apr 8	4,390	May 31	18,800	Jul 2, 1953
<b>Lowest daily mean</b>	597	Sep 18	558	Jul 28	57	Sep 26, 1975
<b>Annual seven-day minimum</b>	644	Sep 15	638	Jul 23	277	Oct 18, 1975
<b>Maximum peak flow</b>			5,150	Apr 4	19,500	Apr 26, 1960
<b>Maximum peak stage</b>			7.11	Apr 4	14.15	Apr 26, 1960
<b>Instantaneous low flow</b>					38	Aug 21, 1962 <sup>a</sup>
<b>10 percent exceeds</b>	1,920		2,440		2,970	
<b>50 percent exceeds</b>	1,390		1,420		1,460	
<b>90 percent exceeds</b>	754		743		844	

<sup>a</sup> Also occurred Sept. 26, 1975.

