

Water-Data Report 2007

**04122500 PERE MARQUETTE RIVER AT SCOTTVILLE, MI**

Northeastern Lake Michigan Basin  
Pere Marquette-White Subbasin

LOCATION.--Lat 43°56'42", long 86°16'43" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.19, T.18 N., R.16 W., Mason County, MI, Hydrologic Unit 04060101, on right bank 20 ft upstream from bridge on South Main Street at south edge of Scottville, 1.4 mi upstream from India Creek, and 5.6 mi downstream from Big South Branch.

DRAINAGE AREA.--681 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--August 1939 to current year. Prior to October 1942, published as "at Custer".

REVISED RECORDS.--WSP 1437: 1941(M), 1943(M), 1949(M), 1950. WDR MI-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 597.66 ft above sea level. Prior to June 12, 1943, nonrecording gage at bridge 4.5 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Gage-height telemeter at station.

## 04122500 PERE MARQUETTE RIVER AT SCOTTVILLE, MI—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	653	957	1,300	1,070	e800	796	1,230	1,520	688	558	497	526
2	673	911	1,380	1,040	e800	823	1,180	1,460	677	551	490	517
3	727	872	1,340	1,040	e740	838	1,200	1,530	676	561	483	509
4	954	840	1,260	1,020	e690	834	1,300	1,650	717	878	478	500
5	1,120	816	1,200	990	e660	816	1,500	1,520	797	827	473	491
6	1,220	798	1,150	968	e660	796	1,690	1,320	852	770	474	482
7	1,280	787	1,100	958	e670	764	1,700	1,190	862	669	477	490
8	1,240	776	e1,050	953	e680	763	1,580	1,100	838	619	478	518
9	1,080	769	1,010	937	e680	800	1,470	1,030	765	596	476	534
10	958	761	1,000	922	e710	854	1,420	974	746	595	475	524
11	914	802	1,010	903	e740	934	1,380	965	712	607	470	522
12	913	853	1,100	893	e740	1,080	1,360	946	686	e610	464	525
13	920	933	1,270	900	e730	1,290	1,360	901	667	e610	484	528
14	955	992	1,440	922	e730	1,650	1,370	863	652	602	518	523
15	987	991	1,510	928	e715	1,800	1,430	855	639	602	508	518
16	1,000	963	1,490	904	e715	1,960	1,470	883	631	604	495	519
17	1,030	936	1,370	841	e700	2,040	1,420	887	648	591	483	512
18	1,050	899	1,250	e820	e700	1,880	1,320	885	640	578	471	503
19	1,070	863	1,170	e820	e715	1,680	1,240	845	708	569	480	493
20	1,090	831	1,100	e815	e740	1,520	1,180	814	712	558	562	484
21	1,090	802	1,040	e810	e750	1,450	1,140	796	736	545	611	481
22	1,140	781	1,040	e810	e760	2,260	1,100	783	674	537	636	480
23	1,170	767	1,180	e820	e770	2,450	1,050	771	645	534	607	479
24	1,250	756	1,350	e820	e790	2,350	1,020	753	621	533	596	476
25	1,280	748	1,480	e810	804	2,540	1,000	739	609	531	626	473
26	1,230	741	1,510	e810	791	2,190	1,010	729	600	526	642	482
27	1,140	751	1,410	e810	769	1,900	1,060	731	594	526	645	492
28	1,070	835	1,290	e810	778	1,730	1,170	736	585	526	598	497
29	1,030	957	1,200	e810	---	1,550	1,380	726	578	523	559	495
30	1,010	1,130	1,140	e810	---	1,420	1,540	710	569	521	539	489
31	995	---	1,110	e810	---	1,310	---	697	---	509	529	---
<b>Total</b>	32,239	25,618	38,250	27,574	20,527	45,068	39,270	30,309	20,524	18,366	16,324	15,062
<b>Mean</b>	1,040	854	1,234	889	733	1,454	1,309	978	684	592	527	502
<b>Max</b>	1,280	1,130	1,510	1,070	804	2,540	1,700	1,650	862	878	645	534
<b>Min</b>	653	741	1,000	810	660	763	1,000	697	569	509	464	473
<b>Cfsm</b>	1.53	1.25	1.81	1.31	1.08	2.13	1.92	1.44	1.00	0.87	0.77	0.74
<b>In.</b>	1.76	1.40	2.09	1.51	1.12	2.46	2.15	1.66	1.12	1.00	0.89	0.82

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	607	710	742	716	731	990	1,037	808	687	537	497	541
<b>Max</b>	1,507	1,523	1,311	1,129	1,301	1,779	1,732	1,558	1,401	1,232	826	1,880
<b>(WY)</b>	(1987)	(1986)	(1992)	(1985)	(1984)	(1976)	(1993)	(2004)	(2004)	(1969)	(1994)	(1986)
<b>Min</b>	379	439	449	427	440	526	550	425	408	368	354	369
<b>(WY)</b>	(1957)	(1945)	(1945)	(1945)	(1958)	(1940)	(1945)	(1958)	(1964)	(1963)	(1941)	(1948)

04122500 PERE MARQUETTE RIVER AT SCOTTVILLE, MI—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1939 - 2007	
<b>Annual total</b>	333,404		329,131			
<b>Annual mean</b>	913		902		716	
<b>Highest annual mean</b>					1,087	1986
<b>Lowest annual mean</b>					472	1958
<b>Highest daily mean</b>	2,540	Mar 14	2,540	Mar 25	6,020	Sep 13, 1986
<b>Lowest daily mean</b>	503	Aug 23	464	Aug 12	310	Aug 9, 1941
<b>Annual seven-day minimum</b>	514	Sep 3	473	Aug 6	322	Aug 5, 1941
<b>Maximum peak flow</b>			2,600	Mar 25	6,440	Sep 13, 1986
<b>Maximum peak stage</b>			5.39	Mar 25	8.07	Sep 13, 1986
<b>Instantaneous low flow</b>			462	Aug 12 <sup>a</sup>	<sup>b</sup> 209	Dec 11, 1962
<b>Annual runoff (cfsm)</b>	1.34		1.32		1.05	
<b>Annual runoff (inches)</b>	18.21		17.98		14.29	
<b>10 percent exceeds</b>	1,340		1,420		1,090	
<b>50 percent exceeds</b>	828		810		640	
<b>90 percent exceeds</b>	581		509		429	

<sup>a</sup> Also occurred Aug. 13.

<sup>b</sup> Discharge measurement.

