Water-Data Report 2012

04097500 ST. JOSEPH RIVER AT THREE RIVERS, MI

Southeastern Lake Michigan Basin
St. Joseph Subbasin

LOCATION.--Lat 41°56′25″, long 85°37′58″ referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.18, T.6 S., R.11 W., St. Joseph County, MI, Hydrologic Unit 04050001, on right bank in Scidmore Park at Three Rivers, 250 ft downstream from Rocky River, and at mile 112.

DRAINAGE AREA.--1,350 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1953 to September 1983, October 1992 to current year.

REVISED RECORDS.--WSP 1911: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 781.34 ft above NGVD 29 (levels by Michigan Department of Natural Resources).

REMARKS.--Records good. Flow regulated by powerplant upstream from station. Gage-height telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1918, 8,260 ft^3/s, Apr. 27, 1950.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 04097500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/04097500.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	904	1,280	2,630	2,240	3,050	2,490	2,280	1,460	776	260	238	320
2	815	1,250	3,010	2,450	2,790	2,850	2,010	1,540	754	309	234	308
3	870	1,280	3,080	2,200	3,020	3,160	2,300	1,590	761	288	230	314
4	902	1,210	3,140	2,210	2,930	3,160	2,270	1,770	744	224	230	247
5	776	1,130	3,240	2,240	2,650	3,180	1,980	1,810	637	219	232	311
6	832	1,200	3,410	2,120	2,630	3,130	1,940	1,660	670	218	230	312
7	746	1,050	3,460	2,010	2,470	2,980	2,160	1,710	714	216	226	248
8	618	1,080	3,550	2,120	2,310	2,980	1,870	1,460	560	232	224	297
9	711	1,170	3,430	2,140	2,290	2,920	1,760	1,660	508	214	285	334
10	695	1,190	3,230	2,020	2,040	2,700	1,740	1,320	538	242	331	342
11	668	1,210	3,050	1,970	2,000	2,780	1,700	1,560	497	215	307	263
12	492	1,200	2,890	1,920	1,980	2,650	1,500	1,260	496	207	365	345
13	639	1,250	2,510	1,930	1,970	2,530	1,560	1,230	456	201	391	337
14	744	1,300	2,470	1,920	1,960	2,920	1,630	1,260	496	214	406	353
15	717	1,280	2,720	1,820	1,840	2,960	1,740	1,220	396	245	406	300
16	678	1,340	3,250	1,820	1,870	2,900	1,830	1,190	339	230	404	300
17	744	1,260	3,290	2,000	2,040	2,870	1,990	1,110	428	222	397	316
18	755	1,340	3,290	2,170	2,260	2,650	2,230	1,070	406	217	319	331
19	808	1,300	3,260	2,620	2,260	2,500	1,630	952	397	306	376	331
20	1,200	1,250	3,190	2,870	1,980	2,520	1,810	942	401	295	389	323
21	1,310	1,200	3,080	2,770	2,160	2,430	1,740	1,030	356	273	371	348
22	1,380	1,220	2,930	2,770	2,060	2,340	1,290	921	340	326	339	366
23	1,580	1,380	2,730	2,860	1,810	2,340	1,270	899	335	260	259	347
24	1,710	1,660	2,610	3,090	1,940	2,520	1,510	875	329	265	250	338
25	1,580	1,490	2,590	3,260	1,970	2,940	1,230	860	326	271	277	388
26	1,660	1,770	2,520	3,440	2,170	2,930	1,370	695	322	273	242	312
27	1,400	1,750	2,470	3,430	2,050	2,830	1,330	689	297	274	329	368
28	1,370	1,880	2,390	3,380	1,810	2,520	1,210	773	233	305	305	333
29	1,580	2,120	2,320	3,370	2,280	2,460	1,440	751	229	279	316	356
30	1,240	2,470	2,190	3,290	---	2,410	1,440	742	289	248	313	322
31	1,260	---	2,090	3,140	---	2,330	---	529	---	265	250	---
Total	31,384	41,510	90,020	77,590	64,590	84,880	51,760	36,538	14,030	7,813	9,471	9,710
Mean	1,012	1,384	2,904	2,503	2,227	2,738	1,725	1,179	468	252	306	324
Max	1,710	2,470	3,550	3,440	3,050	3,180	2,300	1,810	776	326	406	388
Min	492	1,050	2,090	1,820	1,810	2,330	1,210	529	229	201	224	247
Cfsm	0.75	1.02	2.15	1.85	1.65	2.03	1.28	0.87	0.35	0.19	0.23	0.24
In.	0.86	1.14	2.48	2.14	1.78	2.34	1.43	1.01	0.39	0.22	0.26	0.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	757	946	1,184	1,335	1,473	2,032	1,997	1,659	1,218	793	644	664
Max	2,081	2,582	2,904	3,493	3,652	3,969	3,483	2,870	2,587	1,780	1,639	2,292
(WY)	(2002)	(1993)	(2012)	(1993)	(2008)	(1982)	(2009)	(1983)	(1980)	(1978)	(1981)	(2008)
Min	218	294	288	328	328	488	793	650	286	243	187	199
(WY)	(1964)	(1965)	(1964)	(1963)	(1963)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)

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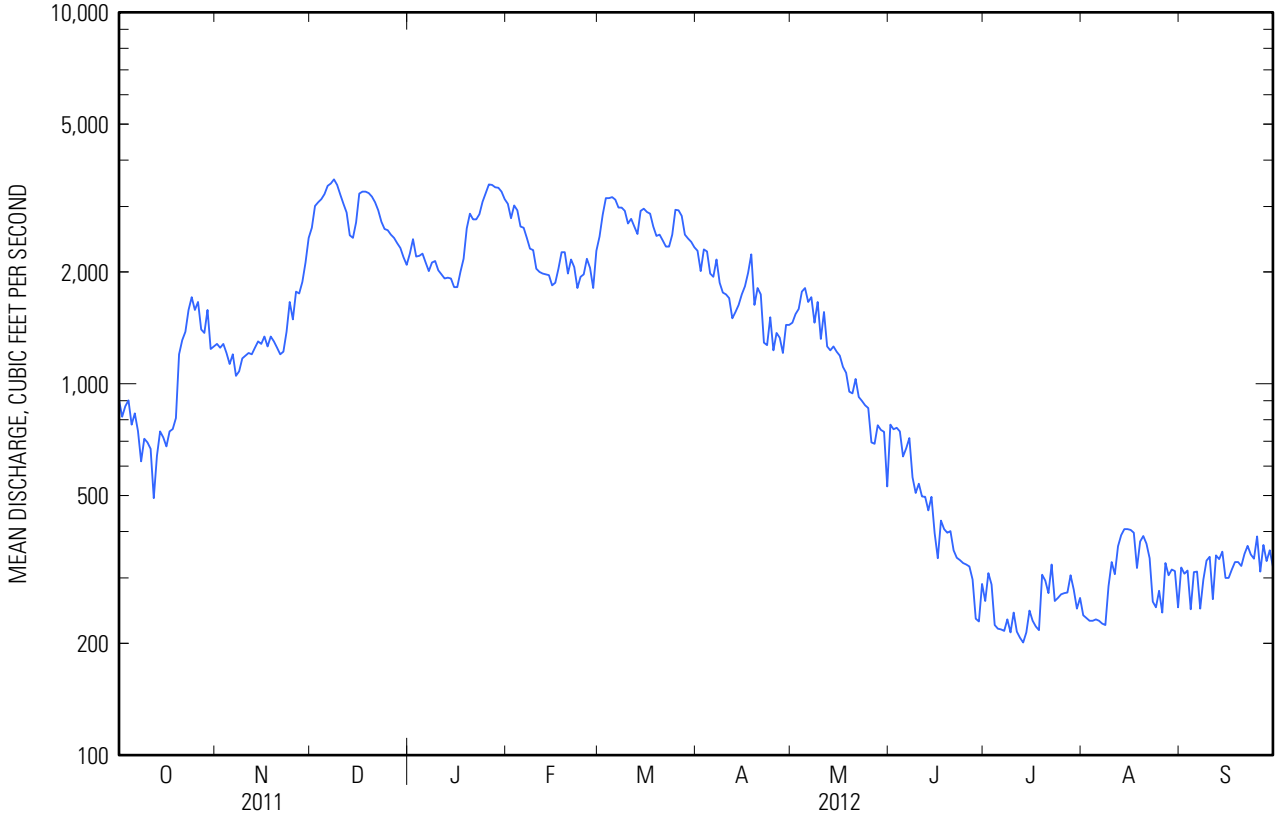
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1953 - 2012	
Annual total	553,158		519,296			
Annual mean	1,516		1,419		1,227	
Highest annual mean					1,948	2008
Lowest annual mean					365	1964
Highest daily mean	3,930	May 1	3,550	Dec 8	7,810	Mar 21, 1982
Lowest daily mean	379	Aug 22	201	Jul 13	78	Sep 12, 1964
Annual seven-day minimum	526	Sep 3	218	Jul 8	126	Sep 2, 1964
Maximum peak flow			3,630	Jan 25	8,180	Mar 21, 1982
Maximum peak stage			6.85	Jan 25	10.69	Mar 21, 1982
Instantaneous low flow			195	Jul 13		
Annual runoff (cfsm)	1.12		1.05		0.909	
Annual runoff (inches)	15.24		14.31		12.34	
10 percent exceeds	2,970		2,930		2,380	
50 percent exceeds	1,280		1,280		1,010	
90 percent exceeds	578		265		413