Water-Data Report 2013

04087000 MILWAUKEE RIVER AT MILWAUKEE, WI

Southwestern Lake Michigan Basin
Milwaukee Subbasin

LOCATION.--Lat 43°06′00″, long 87°54′32″ referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.5, T.7 N., R.22 E., Milwaukee County, WI, Hydrologic Unit 04040003, on left bank near northeast limits of Milwaukee in Estabrook Park, 2,000 ft downstream from Port Washington Road bridge and 6.6 mi upstream from mouth.

DRAINAGE AREA.--696 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1914 to current year. Published as "near Milwaukee" prior to 1936.

REVISED RECORDS.--WSP 564: 1918(M). WSP 924: 1940. WSP 1207: 1936(M). WSP 1337: 1915-17(M), 1918, 1919-21(M), 1922, 1923(M), 1924, 1925-33(M). WDR WI-79-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 606.91 ft above NAVD of 1988 (levels by U. S. Army Corps of Engineers). Prior to Apr. 6, 1929, nonrecording gage near present site at different datum. Apr. 6, 1929, to Jan. 8, 1934, nonrecording gage at bridge 0.5 mi upstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Occasional regulation caused by recreation dam approximately 1,200 ft upstream. Gage-height telemeter at station.

04087000 MILWAUKEE RIVER AT MILWAUKEE, WI—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

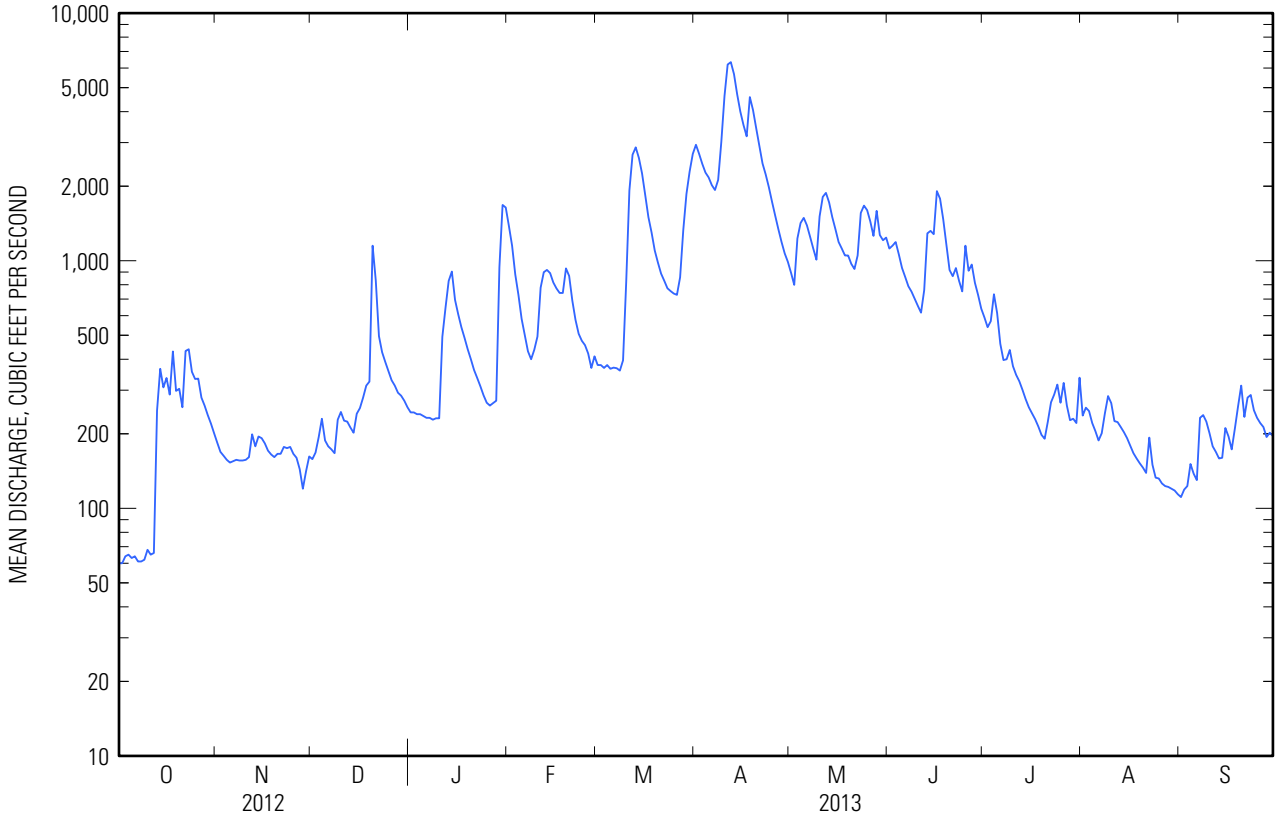
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	60	184	158	e244	e1,380	e379	2,940	893	1,120	590	237	111
2	60	169	168	e244	e1,150	e379	2,700	799	1,150	539	255	119
3	64	163	194	e240	e880	e369	2,460	1,230	1,190	570	247	123
4	65	157	230	e240	e728	e379	2,270	1,420	1,060	732	221	151
5	63	153	188	e236	e583	366	2,170	1,490	935	615	205	138
6	64	155	178	e232	e501	370	2,020	1,390	860	462	188	130
7	61	157	173	e232	e431	368	1,930	1,250	789	397	201	232
8	61	156	167	e228	e400	360	2,120	1,120	750	400	242	238
9	62	156	228	231	e437	396	3,020	1,010	702	436	284	224
10	68	157	245	231	e494	822	4,620	1,510	657	375	266	201
11	65	161	226	493	778	1,920	6,200	1,810	617	346	225	178
12	66	199	224	646	899	2,680	6,340	1,880	761	326	223	169
13	248	178	212	829	e918	2,870	5,670	1,720	1,290	301	213	159
14	366	195	202	904	891	2,600	4,700	1,500	1,320	276	203	160
15	308	192	241	e695	e817	2,250	4,000	1,340	1,280	256	192	211
16	336	183	254	e608	e773	1,840	3,530	1,190	1,910	242	179	195
17	288	171	280	e539	e741	e1,500	3,180	1,120	1,780	229	167	173
18	430	165	313	e488	e741	e1,300	4,580	1,050	1,470	214	159	210
19	298	161	325	439	e931	1,100	4,060	1,050	1,160	198	152	258
20	304	166	1,150	e400	e868	e983	3,430	971	917	191	146	313
21	256	166	832	e362	e690	e887	2,910	926	866	224	139	234
22	432	177	e496	e336	e577	e830	2,470	1,050	934	268	193	280
23	439	175	e427	e311	e507	774	2,230	1,560	829	288	150	287
24	356	177	e390	e286	e475	754	1,980	1,670	752	316	133	249
25	333	166	e358	e267	e456	737	1,730	1,600	1,150	267	132	232
26	334	160	e329	e260	422	728	1,520	1,440	911	321	126	221
27	280	144	e313	266	369	857	1,340	1,260	965	260	123	213
28	260	120	e293	272	411	1,330	1,190	1,590	814	227	122	194
29	238	141	e285	942	---	1,860	1,070	1,270	727	230	120	202
30	220	162	e272	1,680	---	2,290	989	1,210	640	221	118	196
31	201	---	e256	1,640	---	2,700	---	1,240	---	337	114	---
Total	6,686	4,966	9,607	15,021	19,248	36,978	89,369	40,559	30,306	10,654	5,675	6,001
Mean	216	166	310	485	687	1,193	2,979	1,308	1,010	344	183	200
Max	439	199	1,150	1,680	1,380	2,870	6,340	1,880	1,910	732	284	313
Min	60	120	158	228	369	360	989	799	617	191	114	111
Cfsm	0.31	0.24	0.45	0.70	0.99	1.71	4.28	1.88	1.45	0.49	0.26	0.29
In.	0.36	0.27	0.51	0.80	1.03	1.98	4.78	2.17	1.62	0.57	0.30	0.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	274	343	306	271	402	1,059	1,015	565	462	244	217	260
Max	1,316	1,956	981	1,081	2,200	3,545	3,024	2,597	2,976	1,254	2,936	2,304
(WY)	(1987)	(1986)	(1929)	(2008)	(1938)	(1929)	(1993)	(2004)	(2008)	(2010)	(1924)	(1938)
Min	52.8	62.4	40.7	45.8	47.4	181	237	86.4	56.3	25.0	19.4	27.4
(WY)	(1947)	(1950)	(1964)	(1959)	(1959)	(1940)	(1958)	(1958)	(1934)	(1936)	(1934)	(1932)

04087000 MILWAUKEE RIVER AT MILWAUKEE, WI—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1914 - 2013	
Annual total	138,592		275,070			
Annual mean	379		754		451	
Highest annual mean					927	2008
Lowest annual mean					112	1958
Highest daily mean	1,780	Mar 13	6,340	Apr 12	14,800	Mar 20, 1918
Lowest daily mean	57	Jul 12 [a]	60	Oct 1 [b]	[c] 0.00	Sep 8, 1943
Annual seven-day minimum	62	Sep 27	62	Oct 1	8.3	Aug 3, 1936
Maximum peak flow			6,500	Apr 12	18,200	Jul 22, 2010
Maximum peak stage			6.56	Apr 12	10.48	Jul 22, 2010
Instantaneous low flow			58	Oct 2 [d]	[c] 0.00	Sep 8, 1943
Annual runoff (cfsm)	0.544		1.08		0.648	
Annual runoff (inches)	7.41		14.70		8.81	
10 percent exceeds	982		1,790		1,020	
50 percent exceeds	240		360		240	
90 percent exceeds	70		156		75	

[a] Also occurred Sept. 20.
[b] Also occurred Oct. 2.
[c] Result of regulation.
[d] Occurred many days.