

**04231600 GENESSEE RIVER AT FORD STREET BRIDGE, ROCHESTER, NY**

Southwestern Lake Ontario Basin  
Lower Genesee Subbasin

LOCATION.--Lat 43°08'30.2", long 77°36'58.7" referenced to North American Datum of 1983, Monroe County, NY, Hydrologic Unit 04130003, on left bank, adjacent to floodwall, about 400 ft upstream of the Ford Street bridge, in Rochester.

DRAINAGE AREA.--2,474 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--April 1904 to September 1918, December 1919 to current year. Published as 04231500, "below Erie Canal at Rochester," 1904-18, as 04232000, "at Driving Park Avenue," 1919-68, and "at Rochester," 1969-2005.

GAGE.--Acoustic velocity meter and water-stage recorder. Acoustic velocity meter since 2005. Elevation of gage is 512 ft above NGVD of 1929, from topographic map. Apr. 1904 to Dec. 1910, nonrecording gage and Dec. 1910 to Sept. 1918, water-stage recorder at site 1.9 mi upstream at datum 506.85 ft, Barge Canal datum. Dec. 1919 to Apr. 4, 1927, water-stage recorder in plant 5, and Apr. 4, 1927 to June 19, 1956, at site 3.1 mi downstream at datum 250.00 ft above NGVD of 1929. June 20, 1956 to Sept. 30, 1969, at site 3.1 mi downstream at datum 247.00 ft above NGVD of 1929. Oct. 1, 1969 to Sept. 30, 1985, at site 3.1 mi downstream at datum 246.24 ft above NGVD of 1929. Oct. 1, 1985 to Sept. 30, 2005, at site 3.1 mi downstream at datum 244.24 ft above NGVD of 1929 (245.00 ft, Barge Canal datum).

REMARKS.--Records fair. Occasional fluctuation caused by powerplant downstream from station. New York State Erie (Barge) Canal crosses river 1.8 mi upstream from station. Water diverted by the canal from Lake Erie is discharged into river from the west, the canal again diverting a smaller amount of water from river to the east. Additional regulation is provided by Rushford Lake, Mount Morris Lake (see station 04224000), and Conesus Lake (see station 04227980).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, prior to construction of Mt. Morris Reservoir in 1951, 48,300 ft<sup>3</sup>/s, Mar. 30, 1916, gage height 15.3 ft, site and datum then in use; minimum discharge (at gage site located 3.1 mi downstream), less than 10 ft<sup>3</sup>/s, occurred during low-water periods in some years when power plant was shut down. Maximum discharge, since construction of Mt. Morris Reservoir in 1951, 29,600 ft<sup>3</sup>/s, June 25, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, about 54,000 ft<sup>3</sup>/s, Mar. 18, 1865.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 12,300 ft<sup>3</sup>/s, Mar. 24; minimum daily discharge, 583 ft<sup>3</sup>/s, Nov. 17. Maximum and minimum instantaneous discharges not determined.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	901	2,570	1,160	3,820	7,410	1,290	7,260	2,160	1,380	1,890	1,550	908
2	905	3,070	1,690	2,390	6,620	1,300	7,110	2,060	1,270	1,590	1,270	989
3	1,080	2,360	1,700	2,110	5,810	1,340	5,990	1,920	1,250	1,230	1,320	1,040
4	1,060	1,850	2,070	1,680	2,860	1,400	4,140	1,670	1,530	1,160	1,190	725
5	1,150	1,710	3,180	1,480	2,080	1,450	2,500	1,820	1,870	1,200	1,250	809
6	1,050	1,640	2,460	1,360	1,860	1,390	2,260	2,050	2,720	1,090	1,160	906
7	999	1,500	1,850	1,900	1,580	1,370	2,380	2,270	5,600	1,100	1,190	1,050
8	947	1,740	1,410	1,890	1,300	1,610	2,480	2,720	6,170	974	1,120	836
9	1,190	1,630	1,540	1,750	1,340	2,400	2,300	2,510	5,540	1,180	1,160	816
10	1,190	1,490	2,410	1,410	1,290	3,840	2,200	2,940	4,100	1,510	1,020	889
11	1,180	1,240	3,830	1,320	1,200	5,150	2,210	2,320	3,010	2,800	906	738
12	1,220	1,260	3,290	1,310	1,180	7,770	2,060	2,010	2,480	1,950	751	926
13	1,190	1,290	2,680	1,380	1,220	8,820	1,810	3,690	2,150	1,530	1,000	924
14	785	1,250	2,680	1,390	1,200	10,600	1,700	5,320	2,200	1,490	1,080	849
15	699	1,250	3,200	1,370	1,150	11,000	1,630	5,320	2,160	1,580	977	762
16	879	1,080	4,250	1,500	1,090	10,100	1,590	4,590	2,220	1,420	923	783
17	1,730	583	4,420	1,610	1,020	9,260	1,530	3,380	2,470	1,280	1,020	777
18	1,830	632	2,900	1,770	1,030	8,880	1,720	2,540	2,570	1,230	832	1,720
19	2,180	646	2,500	2,180	1,010	9,380	1,530	2,410	2,270	1,080	883	1,310
20	2,730	657	2,220	2,990	1,150	9,570	1,020	2,650	1,890	982	688	1,020
21	2,800	1,260	2,060	2,640	1,150	7,880	888	2,550	1,740	1,180	769	981
22	2,260	1,650	1,890	1,820	1,170	5,530	1,180	2,170	1,660	1,470	862	974
23	1,360	1,120	1,030	1,600	1,140	7,970	1,800	2,030	1,620	2,040	2,210	909
24	1,620	1,050	1,290	2,210	1,020	12,300	1,880	1,910	1,470	2,520	2,960	963
25	1,660	1,010	2,090	3,550	1,250	9,790	1,800	1,790	1,480	3,060	2,140	752
26	1,900	1,100	2,280	10,000	1,140	7,490	1,750	1,680	1,330	3,690	1,660	755
27	1,840	1,110	4,640	9,200	1,100	8,130	1,850	1,390	1,360	3,640	1,390	773
28	1,950	1,000	7,720	8,010	1,130	7,310	3,170	1,290	1,450	2,200	1,160	908
29	2,940	1,180	6,420	7,570	---	6,440	2,590	1,440	1,710	1,660	1,050	923
30	4,490	1,310	5,570	7,650	---	6,290	2,190	1,310	2,550	1,950	980	1,040
31	3,140	---	4,920	7,130	---	7,260	---	1,260	---	1,860	905	---
<b>Total</b>	50,855	41,238	91,350	97,990	52,500	194,310	74,518	75,170	71,220	53,536	37,376	27,755
<b>Mean</b>	1,640	1,375	2,947	3,161	1,875	6,268	2,484	2,425	2,374	1,727	1,206	925
<b>Max</b>	4,490	3,070	7,720	10,000	7,410	12,300	7,260	5,320	6,170	3,690	2,960	1,720
<b>Min</b>	699	583	1,030	1,310	1,010	1,290	888	1,260	1,250	974	688	725

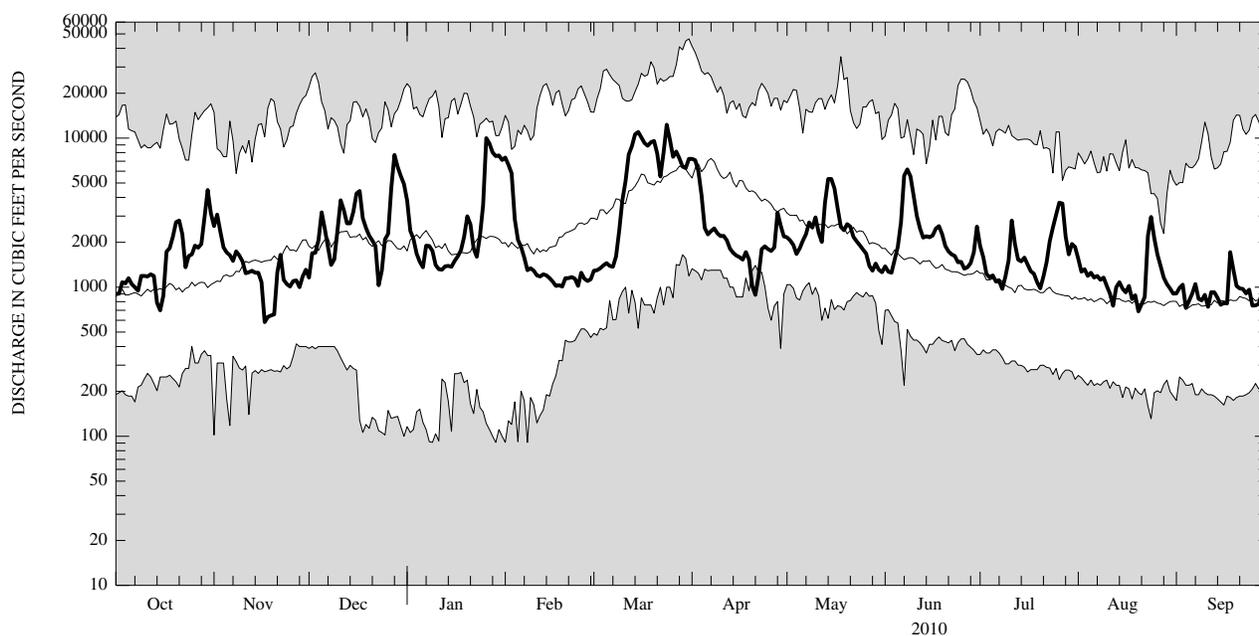
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2010, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	1,497	2,159	2,848	2,958	3,250	6,153	5,955	3,479	2,091	1,335	1,029	1,060
<b>Max</b>	7,095	7,383	9,973	8,830	9,157	14,300	14,160	10,230	7,311	8,524	4,825	6,722
<b>(WY)</b>	(1978)	(1928)	(1928)	(1913)	(1925)	(1945)	(1940)	(1943)	(1972)	(1972)	(2003)	(1977)
<b>Min</b>	338	436	502	152	560	2,213	1,561	1,140	479	350	229	199
<b>(WY)</b>	(1914)	(1910)	(1910)	(1961)	(1920)	(1937)	(1946)	(1915)	(1915)	(1913)	(1913)	(1913)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1904 - 2010	
<b>Annual total</b>	1,023,525		867,818			
<b>Annual mean</b>	2,804		2,378		2,834	
<b>Highest annual mean</b>					4,426	1978
<b>Lowest annual mean</b>					1,663	1999
<b>Highest daily mean</b>	15,900	Feb 13	12,300	Mar 24	46,300	Mar 31, 1916
<b>Lowest daily mean</b>	383	Sep 15	583	Nov 17	91	Jan 9, 1961
<b>Annual seven-day minimum</b>	599	Sep 15	823	Sep 11	104	Jan 26, 1961
<b>10 percent exceeds</b>	7,070		5,550		6,900	
<b>50 percent exceeds</b>	1,700		1,630		1,620	
<b>90 percent exceeds</b>	918		923		610	



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.  
 SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.