

**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 04232000, "at Driving Park Avenue," 1919-68, and "at Rochester," 1969-2005.

GAGE.--Acoustic velocity meter and water-stage recorder. 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 Sep. 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 except those for estimated daily discharges, which are poor. 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 on Mar. 18, 1865, about 54,000 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, about 15,900 ft<sup>3</sup>/s, Feb. 13; minimum daily discharge, 383 ft<sup>3</sup>/s, Sept. 15. Maximum and minimum instantaneous discharges not determined.

## 04231600 GENESSEE RIVER AT FORD STREET BRIDGE, ROCHESTER, NY—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,030	2,030	1,860	7,760	e1,500	5,750	2,570	1,500	2,260	3,940	1,500	1,430
2	1,060	1,860	2,430	7,850	e1,500	5,220	2,450	1,570	1,670	6,330	1,600	1,290
3	1,010	1,640	2,880	8,170	e1,600	e5,240	2,590	1,730	1,510	8,320	1,620	1,160
4	1,330	1,320	2,510	7,680	e1,600	e4,870	3,600	1,780	1,270	7,160	1,750	1,090
5	1,880	1,380	2,380	7,190	e1,500	e3,350	5,200	1,500	1,220	5,270	1,300	912
6	1,290	1,420	2,630	6,880	e1,400	2,440	5,020	1,570	1,280	3,310	1,230	917
7	1,100	1,230	2,250	e6,800	e1,400	3,010	5,140	1,770	919	2,760	1,400	975
8	1,130	1,150	1,180	7,600	e2,600	9,310	4,550	1,960	681	2,250	1,170	891
9	1,030	1,190	1,210	7,010	e6,290	e13,200	3,970	2,260	1,180	1,940	1,160	671
10	798	1,210	1,370	e3,540	e6,870	e12,800	3,070	1,900	969	1,600	3,650	715
11	949	1,300	2,780	e2,800	e7,830	e11,300	2,620	1,830	1,130	1,570	7,860	645
12	1,030	1,080	4,410	e2,500	e11,000	e10,400	2,330	1,730	1,300	1,640	5,820	737
13	965	1,250	5,360	e2,900	e15,900	8,760	2,240	1,550	1,810	2,370	3,500	749
14	969	1,220	4,410	e2,500	e12,600	8,550	1,820	1,570	1,740	2,000	4,200	811
15	848	1,450	3,470	e1,900	7,590	8,700	1,680	1,280	1,410	1,460	6,460	383
16	1,180	1,930	4,030	e1,600	6,730	8,660	1,840	1,540	1,320	1,250	6,140	486
17	1,350	2,970	5,390	e1,500	7,240	8,480	1,720	1,470	1,180	1,040	3,060	744
18	1,930	2,870	5,110	e1,500	8,070	7,660	1,530	1,830	1,560	1,140	1,680	683
19	1,680	2,440	4,260	e1,500	8,060	7,730	1,150	1,850	2,050	953	1,500	536
20	1,690	1,840	e3,660	e1,700	7,870	7,660	1,290	1,740	2,460	905	1,920	637
21	1,890	1,630	e2,400	e1,700	7,620	7,740	1,510	1,570	3,860	903	1,780	721
22	1,670	1,520	e2,100	e1,500	7,330	6,660	1,690	1,310	5,340	1,230	3,140	833
23	1,660	1,190	e1,900	e1,500	7,370	5,950	1,340	1,380	5,270	1,400	3,160	739
24	1,610	1,030	e1,950	e1,700	6,690	5,700	1,040	1,260	4,540	1,530	2,310	522
25	2,100	1,260	e3,300	e1,600	5,830	5,230	1,160	1,020	3,100	1,660	1,600	407
26	2,550	1,440	4,430	e1,500	4,210	4,270	986	1,010	2,100	2,030	1,440	650
27	3,550	1,570	8,790	e1,400	2,590	3,000	1,680	1,180	2,670	1,560	1,250	835
28	3,130	1,610	e14,600	e1,500	4,090	3,470	1,490	1,620	3,670	1,540	999	845
29	3,020	1,660	e12,800	e1,400	---	2,870	1,190	2,190	3,010	1,540	1,430	1,120
30	2,880	1,560	e9,310	e1,500	---	2,560	1,430	3,280	3,310	1,220	1,280	873
31	2,440	---	7,900	e1,400	---	2,520	---	3,730	---	1,140	1,520	---
<b>Total</b>	50,749	47,250	133,060	107,580	164,880	203,060	69,896	53,480	65,789	72,961	78,429	24,007
<b>Mean</b>	1,637	1,575	4,292	3,470	5,889	6,550	2,330	1,725	2,193	2,354	2,530	800
<b>Max</b>	3,550	2,970	14,600	8,170	15,900	13,200	5,200	3,730	5,340	8,320	7,860	1,430
<b>Min</b>	798	1,030	1,180	1,400	1,400	2,440	986	1,010	681	903	999	383

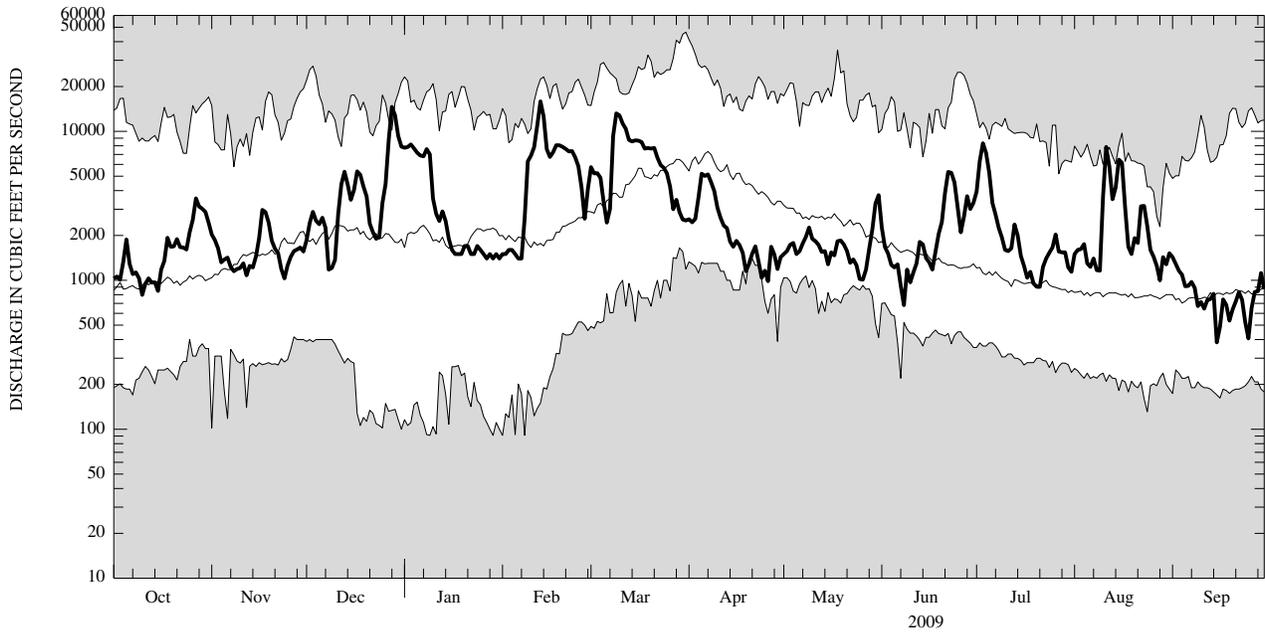
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2009, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	1,495	2,167	2,847	2,956	3,264	6,152	5,988	3,489	2,088	1,331	1,028	1,061
<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 2008		Water Year 2009		Water Years 1904 - 2009	
<b>Annual total</b>	1,082,449		1,071,141			
<b>Annual mean</b>	2,958		2,935		2,838	
<b>Highest annual mean</b>					4,426 1978	
<b>Lowest annual mean</b>					1,663 1999	
<b>Highest daily mean</b>	14,600	Dec 28	15,900	Feb 13	46,300	Mar 31, 1916
<b>Lowest daily mean</b>	592	Sep 26	383	Sep 15	91	Jan 9, 1961
<b>Annual seven-day minimum</b>	754	Sep 22	599	Sep 15	104	Jan 26, 1961
<b>10 percent exceeds</b>	7,790		7,350		6,910	
<b>50 percent exceeds</b>	1,800		1,720		1,620	
<b>90 percent exceeds</b>	852		982		608	



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.