

04231600 GENESSEE RIVER AT FORD ST 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.

DRAINAGE AREA.--2,460 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.-- April 1904 to September 1918, December 1919 to current year. Published as "at Driving Park Avenue," 1919-68; published as "at Rochester," (04232000), 1969-2004.

GAGE.--Acoustic velocity meter and water-stage recorder. Datum of gage is 512.00 ft above NGVD of 1929, from topographic map. Datum of previous gage locations are as follows: April 1904 to December 1910, nonrecording gage and December 1910 to September 1918, water-stage recorder at site 1.9 mi upstream at datum 506.85 ft, Barge Canal datum. December 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, gage datum of 250.00 ft above NGVD of 1929. June 20, 1956 to Sept. 30, 1969, at site 3.1 mi downstream, gage datum of 247.00 ft above NGVD of 1929. Oct. 1, 1969 to Sept. 30, 1985, at site 3.1 mi downstream, gage datum of 246.24 ft above NGVD of 1929. Oct. 1, 1985 to Sep. 30, 2004, at site 3.1 mi downstream, datum of gage is 244.24 ft above NGVD of 1929 (245.00 ft, Barge Canal datum).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Extensive diurnal fluctuation caused by powerplant downstream from station. New York State Erie (Barge) Canal crosses river 5.2 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 November 1951, 48,300 ft³/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 ft³/s, occurred during low-water periods in some years when power plant was shut down, site then in use. Maximum discharge, since construction of Mt. Morris Reservoir in November 1951, 29,600 ft³/s, June 25, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge on Mar. 18, 1865, was about 54,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 10,600 ft³/s, Mar 14; minimum daily discharge, 619 ft³/s, Aug 17; maximum and minimum instantaneous discharges not determined.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,150	6,000	7,590	3,480	4,570	1,770	1,710	1,770	1,230	2,170	2,040	3,760
2	1,100	4,370	6,210	3,130	4,110	1,490	2,080	1,730	1,310	1,770	1,350	2,090
3	1,080	2,300	5,830	3,410	3,120	1,460	2,340	1,770	1,690	1,600	1,580	4,150
4	738	2,070	6,030	4,640	3,650	1,590	2,360	1,620	2,100	1,530	1,890	6,780
5	822	1,950	e6,130	4,910	5,780	1,650	3,590	1,660	2,970	1,340	2,130	6,390
6	935	1,850	6,260	4,940	6,530	1,440	3,530	1,620	2,680	1,590	2,170	6,320
7	927	1,690	6,030	4,810	5,860	1,450	3,150	1,610	2,170	1,460	1,330	6,650
8	1,170	1,870	5,810	4,400	5,300	1,300	3,340	1,550	1,740	1,130	1,300	7,270
9	2,480	2,400	5,520	3,960	4,750	1,530	3,780	1,550	1,750	1,080	1,070	6,630
10	2,050	3,730	5,600	3,640	4,490	2,950	3,400	1,480	1,670	1,310	977	5,440
11	1,540	5,820	5,660	3,230	4,190	5,520	2,610	1,410	1,580	1,160	988	3,760
12	1,140	4,640	5,310	2,990	3,710	6,230	2,410	1,640	1,420	2,260	998	1,950
13	1,240	3,330	e4,870	3,770	2,830	6,550	2,080	e2,350	1,140	3,650	676	1,790
14	1,250	2,570	e3,530	4,770	2,410	10,600	2,420	e2,310	1,320	5,090	625	2,780
15	1,200	2,760	e1,890	7,770	2,420	8,170	2,380	e1,910	1,350	3,720	876	4,220
16	1,260	2,580	e1,730	7,130	3,380	7,210	2,790	e1,720	1,240	2,720	692	4,760
17	1,420	3,590	e1,910	6,430	4,450	7,090	2,560	1,910	1,000	2,550	619	3,270
18	1,370	4,660	e1,890	6,140	5,910	7,000	2,100	2,020	1,260	1,770	774	2,540
19	1,290	3,330	e1,660	6,250	5,180	6,690	1,980	1,660	977	1,570	922	2,180
20	1,360	2,440	e1,380	5,940	4,410	6,350	1,920	1,750	1,190	1,330	714	2,110
21	1,240	2,000	e1,450	6,700	3,630	6,050	1,730	1,660	1,270	1,230	765	2,000
22	1,280	1,880	e1,480	6,980	2,780	5,740	2,120	1,650	1,260	1,180	950	1,800
23	1,950	1,740	e1,560	6,570	2,320	5,560	2,030	1,730	1,130	2,750	1,140	1,500
24	3,400	1,470	e1,610	6,090	2,420	5,400	1,820	1,710	1,200	3,820	932	1,340
25	4,010	1,180	e2,020	5,630	2,270	5,100	1,470	1,650	1,200	2,770	763	1,860
26	8,050	1,300	3,180	5,180	2,110	4,680	1,050	1,500	919	1,760	846	2,030
27	7,050	1,330	4,020	4,570	1,900	4,090	1,340	1,510	1,170	2,250	1,080	1,940
28	6,050	1,900	3,900	3,870	1,720	2,470	1,960	1,670	1,620	2,180	1,040	1,760
29	6,360	3,020	3,400	3,290	---	1,910	1,920	1,690	2,790	1,920	1,420	3,170
30	6,300	7,590	3,560	3,720	---	1,860	1,890	1,610	2,870	3,040	3,760	4,340
31	6,410	---	3,790	4,500	---	1,770	---	1,530	---	2,520	5,230	---
Total	77,622	87,360	120,810	152,840	106,200	132,670	69,860	52,950	47,216	66,220	41,647	106,580
Mean	2,504	2,912	3,897	4,930	3,793	4,280	2,329	1,708	1,574	2,136	1,343	3,553
Max	8,050	7,590	7,590	7,770	6,530	10,600	3,780	2,350	2,970	5,090	5,230	7,270
Min	738	1,180	1,380	2,990	1,720	1,300	1,050	1,410	919	1,080	619	1,340

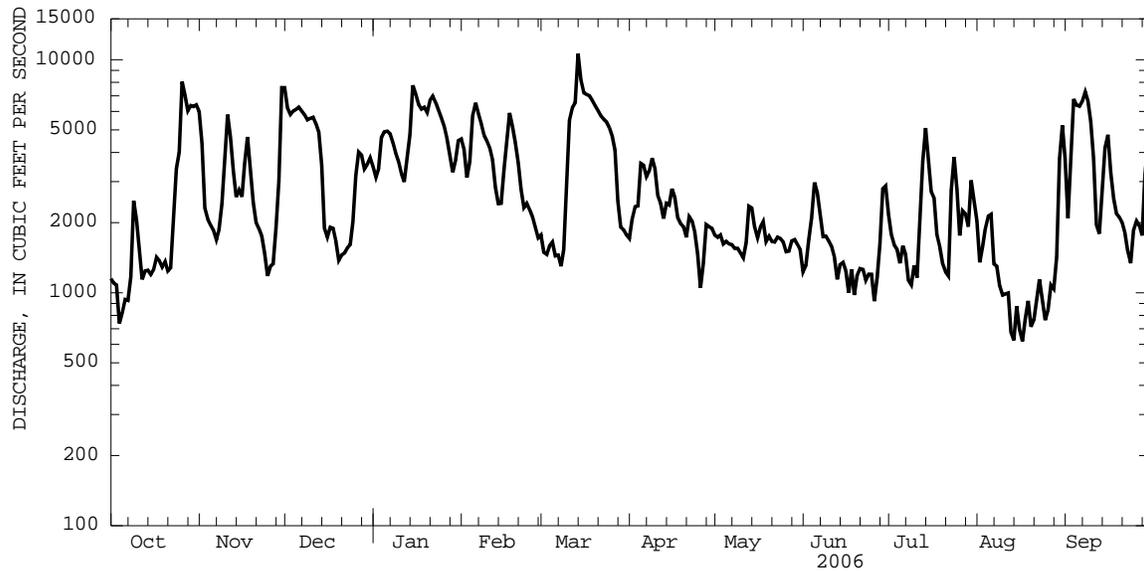
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,504	2,912	3,897	4,930	3,793	4,280	2,329	2,324	1,600	2,136	1,343	2,408
Max	2,504	2,912	3,897	4,930	3,793	4,280	2,329	2,940	1,626	2,136	1,343	3,553
(WY)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2005)	(2005)	(2006)	(2006)	(2006)
Min	2,504	2,912	3,897	4,930	3,793	4,280	2,329	1,708	1,574	2,136	1,343	1,264
(WY)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2005)

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SUMMARY STATISTICS

	Water Year 2006		Water Years 2005 - 2006	
Annual total	1,061,975			
Annual mean	2,910		2,910	
Highest annual mean			2,910 2006	
Lowest annual mean			2,910 2006	
Highest daily mean	10,600	Mar 14	17,100	Apr 4, 2005
Lowest daily mean	619	Aug 17	434	Aug 4, 2005
Annual seven-day minimum	741	Aug 13	617	Aug 2, 2005
10 percent exceeds	6,050		6,050	
50 percent exceeds	2,100		2,100	
90 percent exceeds	1,160		1,160	



CURRENT WATER YEAR DAILY MEAN DISCHARGE.