Water-Data Report 2008

04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY

Southwestern Lake Ontario Basin
Upper Genesee Subbasin

LOCATION.--Lat 42°46′00″, long 77°50′21″ referenced to North American Datum of 1927, Livingston County, NY, Hydrologic Unit 04130002, on right bank 100 ft north of Jones Bridge Road, 0.8 mi downstream from Canaseraga Creek, 2.8 mi northeast of Mount Morris, and 63.0 mi upstream from mouth.

DRAINAGE AREA.--1,424 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1903 to April 1906, August 1908 to April 1914, July 1915 to current year. Prior to 1968, published as "atJones Bridge."

REVISED RECORDS.--WSP 1277: 1952. WSP 1387: 1913. WSP 1437: 1955. WDR NY-82-3: Drainage area. WDR NY-78-1: 1974-77 (M,m). WDR NY-01-3: 1991, 1992, 1996-2000 (M).

GAGE.--Water-stage recorder. Datum of gage is 540.12 ft above NGVD of 1929. Prior to Sept. 11, 1915, nonrecording gage on bridge at datum 2.85 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Diurnal fluctuation at low flow caused by powerplant. Flow regulated to some extent by Rushford Lake since July 1928, and at high flows since November 1951 by Mount Morris Lake (see station 04224000). Monthly figures of discharge and runoff 1952 to 1966 water years adjusted for change in contents in Rushford Lake and Mount Morris Lake. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, prior to construction of Mt. Morris Reservoir in November 1951, 55,100 ft^3/s, May 17, 1916, gage height, 25.44 ft; maximum gage height, 25.80 ft, Mar. 13, 1920 (ice jam); minimum discharge, 18 ft^3/s, Aug. 29, 1909. Maximum discharge, since construction of Mt. Morris Reservoir in November 1951, 17,800 ft^3/s, June 23, 1972, gage height, 24.50 ft; minimum discharge, 12 ft^3/s, July 23, 1955, gage height, 0.22 ft, partially obstructed intake.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,890 ft^3/s, Feb. 14, gage height, 12.15 ft; minimum discharge, 155 ft^3/s, Oct. 15, 16, gage height, 2.09 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	239	572	2,930	4,400	1,460	951	4,900	1,040	492	785	448	395
2	213	548	2,610	4,070	1,830	1,010	5,580	977	530	627	505	339
3	196	487	2,310	3,560	2,190	1,180	5,950	1,000	480	459	577	306
4	181	311	2,780	2,020	1,750	2,860	5,880	2,220	408	468	489	279
5	173	293	2,280	1,390	2,850	3,000	6,490	2,660	403	440	401	264
6	164	312	1,180	1,590	4,750	2,880	6,390	2,440	394	405	2,580	253
7	172	329	1,210	2,590	5,550	3,010	6,130	2,040	364	362	1,870	251
8	205	331	1,960	3,680	5,170	2,830	6,100	1,320	335	332	1,230	252
9	188	316	1,930	3,930	5,990	2,720	6,350	1,440	326	311	1,280	263
10	189	297	1,730	3,910	6,730	2,770	6,390	1,250	332	365	1,590	278
11	176	279	1,620	3,710	6,280	2,560	6,290	1,060	343	315	2,320	290
12	166	269	2,490	3,820	6,540	2,430	6,220	972	352	304	1,370	265
13	169	264	2,940	3,640	6,570	2,230	5,490	1,010	323	327	967	678
14	163	260	3,430	3,510	6,850	2,250	5,560	927	338	897	828	2,530
15	158	374	3,750	3,360	6,580	3,520	5,640	802	441	872	769	2,040
16	157	1,290	3,640	3,150	5,800	4,220	5,010	803	485	493	780	1,090
17	171	1,400	3,730	2,860	4,450	3,690	4,010	791	611	379	625	651
18	433	899	3,930	e1,940	4,810	3,530	3,240	946	592	318	493	489
19	490	735	3,220	e1,170	4,870	3,980	2,350	1,290	516	277	503	407
20	496	668	1,610	e880	4,470	4,910	1,510	1,260	507	283	553	360
21	483	786	1,640	e780	3,970	4,540	1,340	1,050	480	358	500	332
22	483	1,320	2,860	e794	2,770	4,910	1,240	945	440	348	420	309
23	605	2,270	2,990	950	1,730	5,740	1,100	917	482	378	361	295
24	1,410	2,220	5,120	889	1,660	6,080	1,020	839	529	1,250	340	284
25	1,360	1,980	3,750	836	1,530	5,830	954	737	510	5,550	413	274
26	867	1,200	3,480	785	1,380	4,710	893	682	473	2,380	387	260
27	746	2,720	4,460	764	1,280	4,720	921	627	442	1,210	363	260
28	691	3,500	5,750	785	e987	4,590	1,220	581	426	857	332	269
29	657	4,390	6,560	770	e766	4,430	1,240	513	547	627	386	329
30	619	4,070	6,200	977	---	4,280	1,240	463	1,140	497	524	449
31	586	---	5,320	1,830	---	4,280	---	455	---	462	491	---
Total	13,006	34,690	99,410	69,340	111,563	110,641	116,648	34,057	14,041	22,936	24,695	14,741
Mean	420	1,156	3,207	2,237	3,847	3,569	3,888	1,099	468	740	797	491
Max	1,410	4,390	6,560	4,400	6,850	6,080	6,490	2,660	1,140	5,550	2,580	2,530
Min	157	260	1,180	764	766	951	893	455	323	277	332	251

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	988	1,495	2,099	1,946	2,065	3,689	4,126	2,085	1,218	747	529	627
Max	4,743	4,556	5,369	5,659	5,106	7,755	7,270	5,677	4,305	6,801	4,040	4,130
(WY)	(1978)	(2007)	(1973)	(1998)	(1990)	(1976)	(1978)	(1996)	(1989)	(1972)	(2003)	(1977)
Min	107	152	280	135	383	1,365	1,464	477	191	87.6	116	99.2
(WY)	(1961)	(1965)	(1961)	(1961)	(1958)	(1960)	(1995)	(1955)	(1955)	(1955)	(2001)	(1995)

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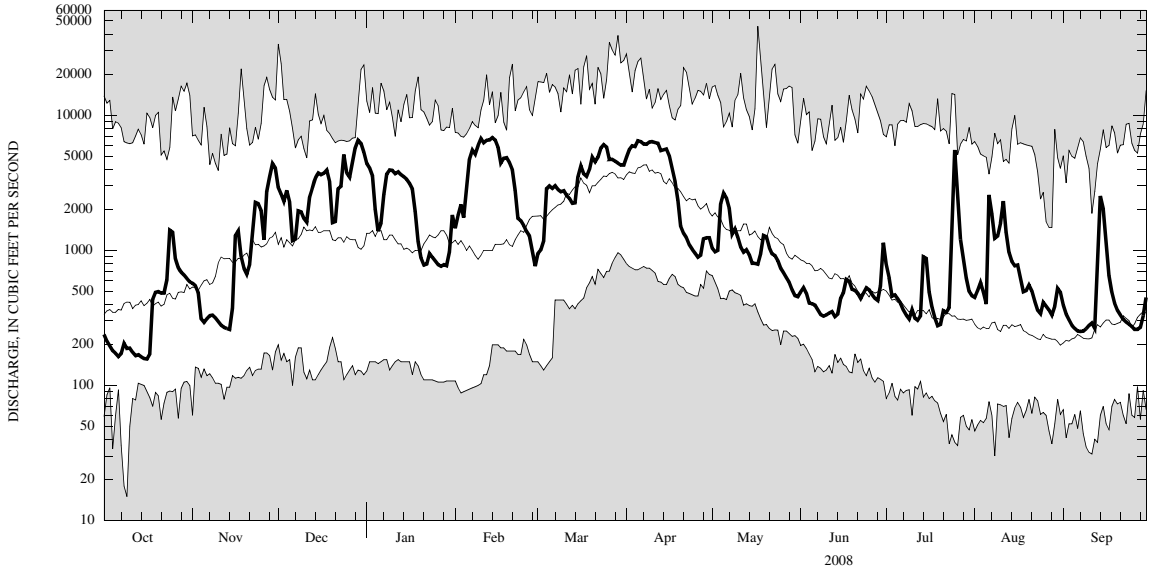
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1952 - 2008	
Annual total	679,858		665,768			
Annual mean	1,863		1,819		1,799	
Highest annual mean					2,603	2004
Lowest annual mean					1,057	1965
Highest daily mean	7,600	Apr 6	6,850	Feb 14	16,500	Jun 24, 1972
Lowest daily mean	109	Sep 7	157	Oct 16	15	Oct 9, 1980
Annual seven-day minimum	117	Sep 3	166	Oct 11	57	Jul 27, 1955
10 percent exceeds	6,010		4,900		4,820	
50 percent exceeds	788		952		981	
90 percent exceeds	169		288		191	



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.