Water-Data Report 2007

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 "at Jones Bridge."

REVISED RECORDS.--WSP 1277: 1952. WSP 1387: 1913. WSP 1437: 1955. WSP 2112; 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, 7,630 ft^3/s, Apr. 6, gage height, 13.38 ft; minimum discharge, 82 ft^3/s, Aug. 6, gage height, 1.80 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3,270	6,520	4,260	2,860	1,840	e908	6,760	2,410	390	238	179	142
2	3,460	6,770	4,750	2,780	1,510	1,240	6,670	2,320	376	217	168	136
3	2,640	6,550	3,320	2,650	1,270	e1,820	6,500	2,510	396	200	153	124
4	2,280	6,060	3,750	2,540	856	2,130	6,420	2,030	802	213	144	120
5	4,420	3,670	5,310	2,460	788	e2,100	7,120	1,790	1,200	321	136	115
6	4,080	1,730	5,880	5,430	e770	e1,490	7,600	1,570	816	341	130	113
7	3,340	1,700	5,580	5,700	e770	e1,050	7,500	1,410	641	336	133	109
8	1,750	1,670	4,780	3,880	e787	e942	7,240	1,280	498	281	139	110
9	1,420	1,880	3,470	4,320	e839	e1,060	7,180	1,170	500	233	142	126
10	1,150	3,340	3,020	5,550	e821	1,260	7,010	1,150	467	209	183	749
11	1,100	4,400	1,990	6,050	e839	1,750	6,160	1,180	421	210	200	924
12	1,510	5,060	1,970	5,400	e908	1,490	5,390	1,120	382	225	195	480
13	1,840	4,840	2,010	5,990	e977	2,260	4,300	970	353	224	196	356
14	2,560	4,820	1,890	6,210	e942	e3,860	3,220	906	326	208	175	302
15	1,700	4,550	1,720	5,870	e873	e4,580	2,210	815	306	202	158	263
16	1,180	4,580	1,590	3,980	e839	e4,100	3,320	791	292	193	142	268
17	1,110	5,240	1,490	4,040	e856	e3,400	3,800	921	277	185	132	414
18	2,230	4,340	1,420	5,760	e908	e4,490	3,050	910	266	210	121	310
19	2,610	5,040	1,390	6,800	e839	e6,510	4,060	788	271	266	120	255
20	4,390	5,830	908	6,630	e959	6,750	5,100	715	342	697	119	223
21	4,400	6,030	1,700	6,430	e977	6,590	5,780	686	427	608	123	206
22	3,860	6,310	1,240	6,770	e959	7,010	5,430	642	359	355	132	189
23	4,120	6,330	1,940	6,890	e925	6,630	4,970	624	290	277	254	177
24	4,860	5,840	2,210	6,710	e873	6,970	4,570	604	260	264	308	165
25	5,890	4,980	1,950	6,470	e770	7,140	4,160	556	245	237	261	158
26	6,220	4,690	3,520	6,120	e787	6,480	4,240	515	232	215	252	152
27	5,660	4,410	3,740	5,780	e839	6,120	3,970	471	220	216	229	169
28	5,900	4,060	3,370	4,880	e856	6,160	4,020	508	216	233	211	269
29	5,480	3,480	3,150	4,560	---	7,180	3,890	499	232	238	173	333
30	4,970	1,950	3,020	4,410	---	7,100	3,290	466	265	213	154	312
31	5,950	---	2,900	e4,080	---	6,910	---	434	---	193	147	---
Total	105,350	136,670	89,238	158,000	26,177	127,480	154,930	32,761	12,068	8,258	5,309	7,769
Mean	3,398	4,556	2,879	5,097	935	4,112	5,164	1,057	402	266	171	259
Max	6,220	6,770	5,880	6,890	1,840	7,180	7,600	2,510	1,200	697	308	924
Min	1,100	1,670	908	2,460	770	908	2,210	434	216	185	119	109

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	998	1,501	2,080	1,940	2,033	3,692	4,130	2,103	1,231	747	524	630
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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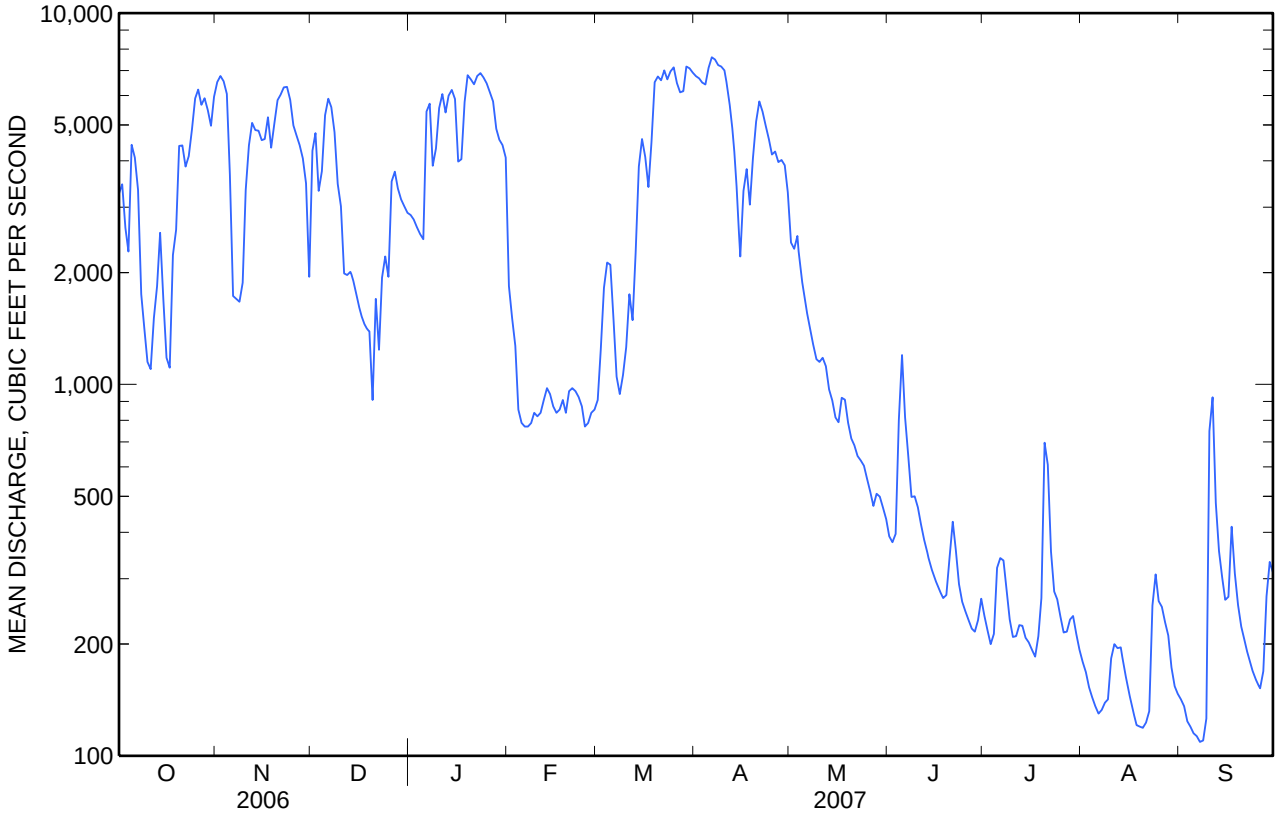
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1952 - 2007	
Annual total	855,084		864,010			
Annual mean	2,343		2,367		1,798	
Highest annual mean					2,603	2004
Lowest annual mean					1,057	1965
Highest daily mean	6,830	Sep 7	7,600	Apr 6	16,500	Jun 24, 1972
Lowest daily mean	254	Aug 19	109	Sep 7	15	Oct 9, 1980
Annual seven-day minimum	276	Aug 13	117	Sep 3	57	Jul 27, 1955
10 percent exceeds	4,890		6,160		4,810	
50 percent exceeds	1,830		1,270		982	
90 percent exceeds	492		184		190