Water-Data Report 2011

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. 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. U.S. Army Corps of Engineers, Buffalo District, telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--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 PERIOD PRIOR TO REGULATION.--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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,410 ft^3/s, May 24, gage height, 14.69 ft; minimum discharge, 138 ft^3/s, Sept. 15, gage height, 2.03 ft.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 04227500, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/04227500.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4,710	1,670	4,650	1,750	e571	5,730	7,110	7,990	6,270	604	233	239
2	4,110	1,520	5,400	3,740	e579	7,320	6,710	7,110	6,120	524	233	230
3	3,200	1,410	4,820	3,480	e700	6,850	4,100	5,170	5,890	476	222	220
4	1,290	1,340	5,180	1,910	e901	5,650	2,270	6,650	5,750	439	271	215
5	2,650	974	5,790	1,760	e942	2,160	4,500	7,980	5,910	411	244	242
6	4,810	1,110	6,600	2,410	e923	4,600	6,820	8,080	5,690	394	220	298
7	5,960	1,030	6,340	1,260	e897	7,050	7,500	7,860	5,480	376	247	364
8	5,590	894	6,210	1,220	e912	6,620	7,830	8,150	4,520	362	423	530
9	4,890	810	6,670	1,100	e867	3,490	7,700	8,030	2,890	348	331	501
10	4,240	753	6,430	e949	e793	2,820	7,510	7,940	1,160	335	456	441
11	3,630	707	5,490	e882	e789	5,890	7,340	8,070	1,080	326	390	359
12	2,040	667	5,240	e816	e841	7,580	7,320	7,950	1,180	311	295	420
13	1,700	627	5,640	e807	e912	7,910	7,840	6,730	1,190	323	254	354
14	1,270	599	6,330	e786	e908	7,770	8,140	5,020	999	298	564	299
15	1,090	604	6,070	e764	e1,060	8,150	7,270	3,170	881	270	2,590	311
16	1,440	644	5,520	e751	e1,220	8,170	4,550	6,100	792	258	816	350
17	1,700	2,370	4,210	e726	e1,490	7,910	5,690	6,930	797	248	501	327
18	1,430	3,610	2,870	e708	e2,250	7,560	7,140	7,490	787	241	356	291
19	1,120	3,360	1,910	e696	e4,580	8,270	4,270	7,030	692	229	320	262
20	1,170	2,840	1,800	e657	e5,440	7,920	4,760	7,310	622	219	350	257
21	1,810	1,830	1,740	e622	e4,680	5,850	6,220	7,830	630	207	374	246
22	1,500	1,570	1,670	e601	e4,340	6,080	6,540	8,010	991	197	413	237
23	1,550	2,900	1,180	e584	e4,340	7,480	7,020	7,630	2,220	189	344	233
24	1,510	3,210	1,090	e575	e4,230	8,070	6,850	7,860	1,960	193	285	249
25	1,490	2,480	948	e579	e4,740	8,070	4,550	7,960	1,780	198	621	246
26	1,740	2,470	979	e579	e5,780	7,860	5,680	5,960	1,590	240	1,040	260
27	2,690	3,100	828	e558	e5,280	7,650	5,650	4,270	1,150	228	604	265
28	3,150	2,440	893	e575	3,540	7,450	5,110	5,480	897	202	395	309
29	2,330	1,910	837	e567	---	7,290	6,230	5,690	872	212	322	1,260
30	1,990	1,720	906	e558	---	7,170	7,660	6,620	723	225	283	1,960
31	1,820	---	842	e558	---	7,210	---	6,910	---	218	255	---
Total	79,620	51,169	115,083	33,528	64,505	209,600	187,880	214,980	71,513	9,301	14,252	11,775
Mean	2,568	1,706	3,712	1,082	2,304	6,761	6,263	6,935	2,384	300	460	392
Max	5,960	3,610	6,670	3,740	5,780	8,270	8,140	8,150	6,270	604	2,590	1,960
Min	1,090	599	828	558	571	2,160	2,270	3,170	622	189	220	215

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,017	1,477	2,141	1,942	2,081	3,757	4,076	2,138	1,239	748	550	616
Max	4,743	4,556	5,369	5,659	5,106	7,755	7,270	6,935	4,305	6,801	4,040	4,130
(WY)	(1978)	(2007)	(1973)	(1998)	(1990)	(1976)	(1978)	(2011)	(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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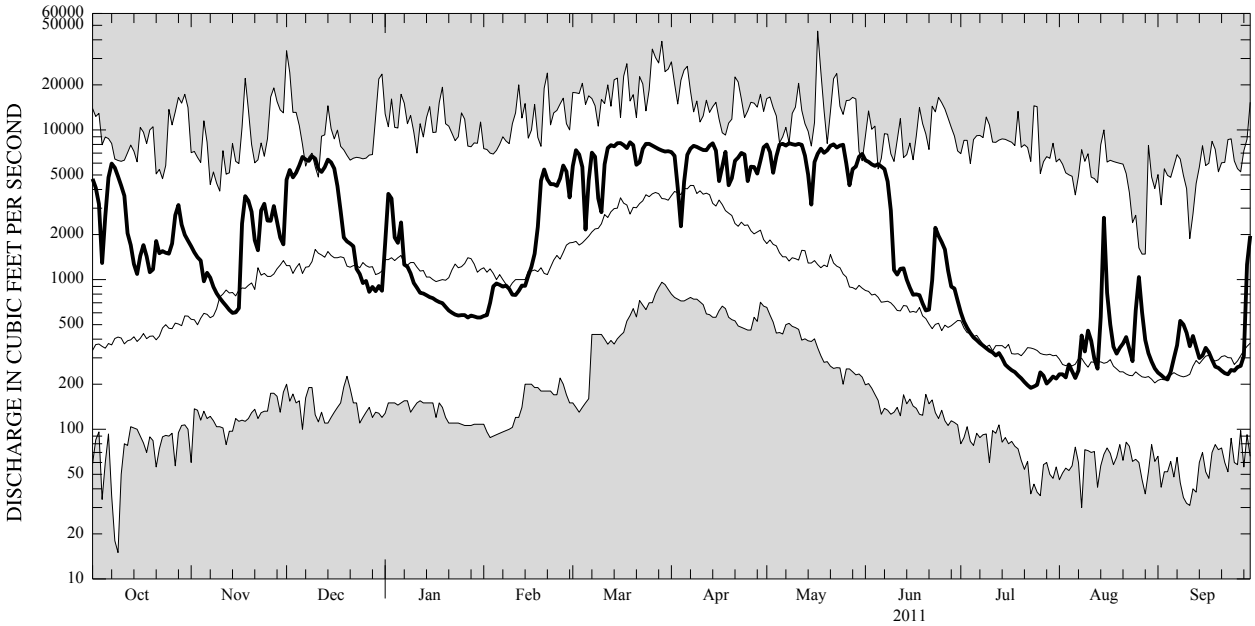
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1952 - 2011	
Annual total	655,875		1,063,206			
Annual mean	1,797		2,913		1,813	
Highest annual mean					2,913	2011
Lowest annual mean					1,057	1965
Highest daily mean	7,750	Mar 19	8,270	Mar 19	16,500	Jun 24, 1972
Lowest daily mean	232	Sep 7	189	Jul 23	15	Oct 9, 1980
Annual seven-day minimum	262	Sep 1	205	Jul 19	57	Jul 27, 1955
10 percent exceeds	5,250		7,460		4,880	
50 percent exceeds	1,020		1,520		987	
90 percent exceeds	330		261		196	



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.