04223000 GENESEE RIVER AT PORTAGEVILLE, NY

Southwestern Lake Ontario Basin
Upper Genesee Subbasin

LOCATION.--Lat 42°34′13″, long 78°02′32″ referenced to North American Datum of 1983, Wyoming County, NY, Hydrologic Unit 04130002, on left bank at Portageville, 500 ft downstream from bridge on State Highway 436, 800 ft upstream from abandoned railroad bridge piers, 0.9 mi upstream from Upper Falls, and 89.8 mi upstream from mouth.

DRAINAGE AREA.--984 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1908 to current year. Prior to December 1945, published as "at St. Helena". Records published for both sites December 1945 to September 1950.

REVISED RECORDS.--WSP 264: 1908. WSP 564: 1916 (M). WDR NY-82-3: Drainage area. WDR NY-72-01: 1950 (M), 1951 (M), 1956 (M), 1959 (M), 1964 (M), 1967 (M).

GAGE.--Water-stage recorder. Datum of gage is 1,080.00 ft above NGVD of 1929 (levels by Corps of Engineers). Prior to Aug. 24, 1911, nonrecording gage, and Aug. 24, 1911 to Sept. 30, 1946, water-stage recorder, at site 8 mi downstream at different datum. Oct. 1, 1946 to June 21, 1972, water-stage recorder at site 1,200 ft downstream at datum 2.60 ft higher (destroyed by flood of June 1972). June 21, 1972 to July 11, 1972, nonrecording gage at same site and datum. July 12, 1972 to May 18, 1973, nonrecording gage at site 500 ft upstream at datum 11.48 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since July 1928, some seasonal regulation by Rushford Lake. Diurnal fluctuation at low flow caused by powerplant. Monthly figures of discharge and runoff 1952 to 1966 water years adjusted for change in contents in Rushford Lake. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 90,000 ft^3/s, June 23, 1972, gage height, 35.25 ft, at site 1,200 ft downstream at datum 2.60 ft higher, from floodmark, from rating curve extended above 25,000 ft^3/s on basis of contracted-opening measurement of 71,000 ft^3/s, 0.4 mi upstream and contracted-opening measurement of 98,200 ft^3/s, 0.7 mi downstream from gage; minimum discharge, 18 ft^3/s, Oct. 5, 17, 1913, gage height, 1.70 ft, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 30	1315	*18,400	*16.74
No other peaks greater than base discharge			

Minimum discharge, 109 ft^3/s, Oct. 5, gage height, 8.32 ft.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 04223000, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/04223000.2013.pdf

04223000 GENESEE RIVER AT PORTAGEVILLE, NY—Continued

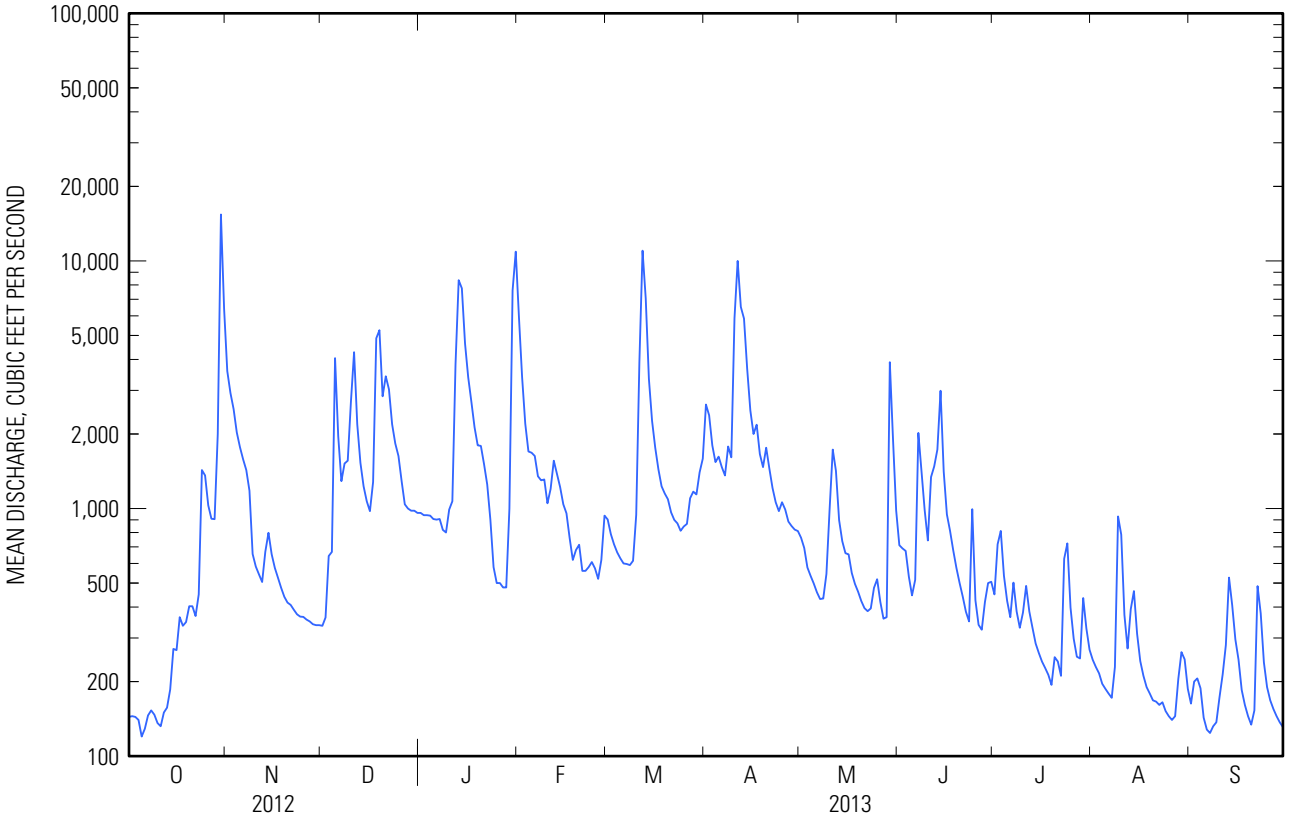
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	144	3,590	336	e960	5,960	903	2,630	762	711	450	245	163
2	145	2,930	363	e940	e3,400	788	2,380	693	690	717	229	200
3	144	2,520	643	e940	e2,200	717	1,800	578	674	812	216	206
4	140	2,030	668	936	e1,700	665	1,540	535	531	535	196	188
5	120	1,770	4,050	907	e1,680	629	1,620	498	446	424	187	143
6	129	1,580	1,960	902	1,630	600	1,470	459	515	364	179	128
7	146	1,430	1,290	907	e1,350	597	1,360	431	2,020	502	172	124
8	153	1,180	1,520	e820	e1,300	591	1,780	433	1,410	384	229	132
9	147	655	1,560	e800	1,310	615	1,610	544	983	330	929	137
10	136	583	2,690	990	e1,050	943	5,870	990	743	380	784	173
11	132	542	4,280	1,070	e1,200	3,900	10,000	1,730	1,340	487	372	214
12	150	505	2,190	3,820	1,560	11,000	6,520	1,420	1,480	384	272	281
13	157	669	1,530	8,360	1,380	7,060	5,850	898	1,730	330	392	526
14	186	798	1,230	7,750	1,220	3,340	3,670	738	2,990	285	464	407
15	271	654	1,070	4,640	1,040	2,260	2,490	660	1,410	261	312	296
16	268	576	976	3,390	956	1,760	2,000	653	947	241	242	245
17	364	525	1,280	2,700	e760	1,440	2,180	549	812	227	211	185
18	336	478	4,870	2,130	e620	1,230	1,660	496	678	213	190	161
19	348	440	5,250	1,800	e680	1,150	1,470	461	576	194	179	145
20	403	417	2,840	1,790	714	1,090	1,760	423	501	251	168	134
21	403	408	3,420	1,510	e560	965	1,450	396	441	241	166	153
22	368	390	3,030	e1,250	e560	e900	1,210	385	383	211	161	486
23	450	374	2,190	e900	e580	871	1,060	395	350	627	165	377
24	1,430	366	1,830	e580	608	813	976	478	994	723	152	239
25	1,360	365	1,630	e500	573	846	1,060	518	426	398	145	190
26	1,030	356	1,290	e500	e520	867	991	420	339	298	140	168
27	909	350	e1,040	e480	e620	1,100	886	359	324	252	145	155
28	906	341	e1,000	e480	936	1,170	850	364	419	248	205	145
29	2,000	338	e980	e1,000	---	1,140	822	3,900	500	435	263	137
30	15,400	338	e980	e7,600	---	1,400	811	1,910	506	328	246	131
31	6,410	---	e960	10,900	---	1,590	---	982	---	269	187	---
Total	34,685	27,498	58,946	72,252	36,667	52,940	69,776	24,058	25,869	11,801	8,143	6,369
Mean	1,119	917	1,901	2,331	1,310	1,708	2,326	776	862	381	263	212
Max	15,400	3,590	5,250	10,900	5,960	11,000	10,000	3,900	2,990	812	929	526
Min	120	338	336	480	520	591	811	359	324	194	140	124
Cfsm	1.14	0.93	1.93	2.37	1.33	1.74	2.36	0.79	0.88	0.39	0.27	0.22
In.	1.31	1.04	2.23	2.73	1.39	2.00	2.64	0.91	0.98	0.45	0.31	0.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	708	1,112	1,434	1,475	1,470	2,893	2,732	1,502	888	465	364	439
Max	3,320	4,201	4,314	4,795	5,838	7,360	7,780	4,826	7,006	1,938	2,794	4,949
(WY)	(1918)	(1928)	(1928)	(1913)	(1976)	(1936)	(1940)	(1919)	(1972)	(2003)	(2003)	(1977)
Min	74.1	110	160	100	229	945	450	294	118	64.8	64.5	50.1
(WY)	(1965)	(1965)	(1909)	(1961)	(1920)	(1937)	(1946)	(1934)	(1934)	(1934)	(1934)	(1913)

04223000 GENESEE RIVER AT PORTAGEVILLE, NY—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1908 - 2013	
Annual total	376,410		429,004			
Annual mean	1,028		1,175		1,289	
Highest annual mean					2,038	1916
Lowest annual mean					766	1962
Highest daily mean	15,400	Oct 30	15,400	Oct 30	72,000	Jun 23, 1972
Lowest daily mean	96	Sep 3	120	Oct 5	20	Oct 5, 1913
Annual seven-day minimum	116	Aug 23	138	Oct 5	34	Jul 25, 1934
Annual runoff (cfsm)	1.05		1.19		1.31	
Annual runoff (inches)	14.23		16.22		17.80	
10 percent exceeds	2,250		2,420		2,950	
50 percent exceeds	582		653		634	
90 percent exceeds	140		170		140