04221000 GENESEE RIVER AT WELLSVILLE, NY

Southwestern Lake Ontario Basin
Upper Genesee Subbasin

LOCATION.--Lat 42°07′20″, long 77°57′27″ referenced to North American Datum of 1927, Allegany County, NY, Hydrologic Unit 04130002, on left bank 35 ft upstream from concrete weir at Wellsville, 0.5 mi upstream from bridge on State Highway 17, 0.6 mi upstream from Crowner Brook and sewage treatment plant, 0.6 mi downstream from Dyke Creek, and 140.9 mi upstream from mouth.

DRAINAGE AREA.--288 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1955 to September 1958, October 1972 to current year. Records for June 1916 to September 1972, published as Genesee River at Scio (station 04221500) at site 5.2 mi downstream, are not equivalent because of difference in drainage areas.

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,470.00 ft above NGVD of 1929. August 1955 to September 1957, at same site at datum 8.00 ft higher. October 1957 to September 1958, nonrecording gage at site 0.4 mi upstream at datum 3.00 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,700 ft^3/s, Jan. 19, 1996, gage height, 16.13 ft; minimum discharge, 11 ft^3/s, Sept. 2, 3, 1991, Aug. 19, 1999, Sept. 6, 1999.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since June 1916, 38,500 ft^3/s, June 23, 1972, gage height, 20.7 ft, present datum, from floodmark, on basis of contracted-opening measurement of peak flow 0.5 mi downstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,600 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 1	1315	*11,300	*11.90
Feb 28	1700	5,490	9.07
Mar 6	1045	7,080	9.92
Mar 11	0515	6,540	9.64
Mar 18	1900	4,150	8.27
Apr 5	0300	5,820	9.25
Apr 23	1100	3,910	8.12
Apr 26	2115	5,780	9.23
Apr 28	0345	3,830	8.07
May 3	1830	4,160	8.28
May 15	1830	4,670	8.59
May 24	0615	3,710	7.99
May 30	0615	4,230	8.32

Minimum discharge, 25 ft^3/s, Aug. 3, gage height, 4.25 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 04221000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/04221000.2011.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	1,610	281	7,870	477	e104	2,690	612	1,000	811	93	31	34
2	451	249	4,310	721	e112	1,390	612	931	636	86	29	41
3	311	232	1,820	408	e110	937	686	2,330	529	81	37	36
4	287	225	1,270	351	e100	793	1,880	2,400	486	72	64	38
5	710	279	984	e300	e100	1,130	4,660	1,360	452	66	47	64
6	1,880	259	801	e280	e128	5,640	2,280	1,070	355	64	52	109
7	1,890	219	667	e260	e120	2,890	2,110	909	347	62	75	118
8	910	202	572	e240	e100	1,580	1,750	767	300	65	55	253
9	640	186	e448	e230	e100	1,190	1,380	643	252	68	56	119
10	502	173	e435	e220	e110	2,010	1,210	552	220	60	60	87
11	449	158	425	e200	e120	5,140	1,220	481	209	55	48	73
12	583	148	655	e190	e120	2,460	1,110	427	290	52	41	63
13	402	142	864	e170	e120	1,750	1,420	919	212	50	39	56
14	340	140	e480	e160	e126	1,250	1,090	893	181	45	55	51
15	319	157	e461	e150	132	1,050	856	2,280	167	43	68	56
16	351	156	e442	e160	123	1,360	1,420	1,610	156	42	50	64
17	281	865	e417	e150	154	1,690	1,810	919	159	41	42	54
18	243	561	e369	e140	1,320	3,280	1,170	909	142	39	36	48
19	222	520	e300	e160	1,860	2,650	1,450	1,430	128	41	34	44
20	206	454	324	e150	e980	1,530	1,840	1,750	116	40	35	48
21	214	400	299	e130	e700	2,500	1,200	1,210	116	36	38	46
22	243	396	274	e110	e560	1,830	1,000	977	307	34	45	45
23	202	521	e244	e105	e480	1,460	2,400	898	256	32	37	49
24	181	440	e229	e120	e440	1,200	1,600	2,340	194	32	32	109
25	203	400	221	e140	e410	964	1,660	1,020	290	32	99	84
26	390	641	207	e146	e400	796	2,740	1,210	189	49	82	62
27	730	513	e165	e140	395	701	2,930	873	152	36	53	99
28	456	444	e187	e115	2,960	623	2,700	890	127	33	46	711
29	390	398	e178	e110	---	584	1,590	664	115	42	40	1,300
30	356	568	e165	e105	---	600	1,230	2,540	104	40	36	538
31	322	---	187	e100	---	648	---	1,110	---	35	34	---
Total	16,274	10,327	26,270	6,438	12,484	54,316	49,616	37,312	7,998	1,566	1,496	4,499
Mean	525	344	847	208	446	1,752	1,654	1,204	267	50.5	48.3	150
Max	1,890	865	7,870	721	2,960	5,640	4,660	2,540	811	93	99	1,300
Min	181	140	165	100	100	584	612	427	104	32	29	34
Cfsm	1.82	1.20	2.94	0.72	1.55	6.08	5.74	4.18	0.93	0.18	0.17	0.52
In.	2.10	1.33	3.39	0.83	1.61	7.02	6.41	4.82	1.03	0.20	0.19	0.58

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	231	359	480	419	456	805	834	453	286	165	145	182
Max	784	1,001	1,016	1,263	1,443	1,752	1,925	1,208	1,269	691	1,079	1,246
(WY)	(1991)	(1997)	(1973)	(1996)	(1976)	(2011)	(1958)	(1996)	(1989)	(2003)	(2003)	(1977)
Min	25.0	32.6	50.5	52.1	94.4	320	296	113	45.3	27.5	23.0	18.8
(WY)	(1958)	(1999)	(1999)	(1981)	(1958)	(1981)	(2010)	(1985)	(1991)	(1993)	(1999)	(1995)

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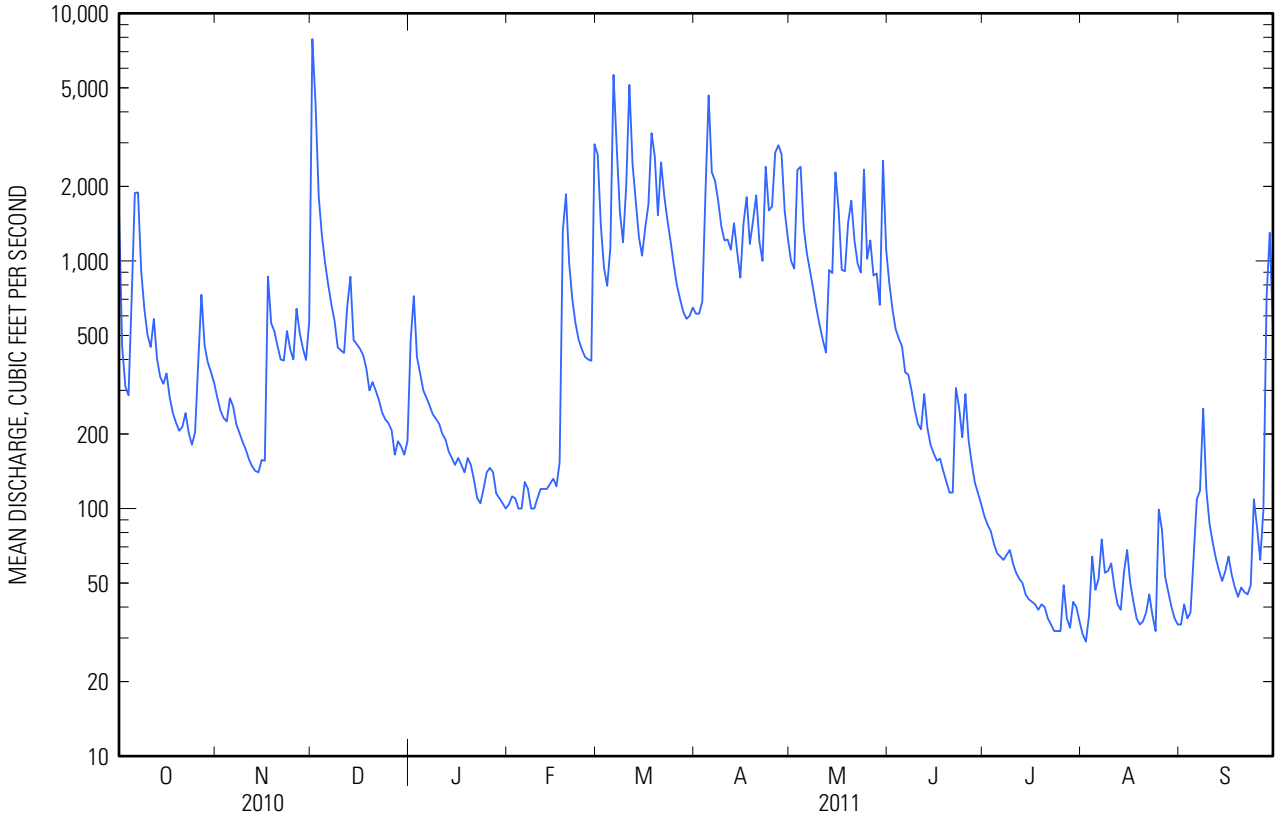
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1956 - 2011	
Annual total	149,291		228,596			
Annual mean	409		626		401	
Highest annual mean					626	2011
Lowest annual mean					210	1999
Highest daily mean	7,870	Dec 1	7,870	Dec 1	13,800	Jan 19, 1996
Lowest daily mean	25	Sep 26	29	Aug 2	13	Sep 2, 1991
Annual seven-day minimum	29	Sep 21	35	Jul 27	15	Sep 3, 1995
Annual runoff (cfsm)	1.42		2.17		1.39	
Annual runoff (inches)	19.28		29.53		18.90	
10 percent exceeds	738		1,670		898	
50 percent exceeds	221		279		214	
90 percent exceeds	49		45		41