



Water-Data Report 2013

04227000 CANASERAGA CREEK AT SHAKERS CROSSING, NY

Southwestern Lake Ontario Basin
Upper Genesee Subbasin

LOCATION.--Lat 42°44'13", long 77°50'26" referenced to North American Datum of 1983, Livingston County, NY, Hydrologic Unit 04130002, on right bank 100 ft upstream from bridge on State Highway 408 at Shakers Crossing, 1.5 mi northeast of Mount Morris and 1.4 mi upstream from mouth.

DRAINAGE AREA.--335 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1915 to September 1922 (gage heights only), November 1958 to September 1970, October 1974 to current year.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 545.52 ft above NGVD of 1929. Prior to November 1958, at site 250 ft east and 40 ft north at datum 5.52 ft lower. Prior to July 1981, at site 250 ft east on left bank of old filled-in channel at same datum. April 1968 to September 1970, and since October 1974, auxiliary water-stage recorder 0.6 mi downstream from base gage.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,510 ft³/s, Jan. 19, 1996, gage height 13.01 ft; maximum gage height, 23.62 ft, present datum, May 17, 1916 (backwater from Genesee River); minimum discharge, 4.3 ft³/s, Aug. 19, 1970, gage height, 2.26 ft, result of temporary regulation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 23, 1972, reached an estimated discharge of 11,200 ft³/s from U.S. Army Corps of Engineers publication (Tropical Storm Agnes, June 1972).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 30	0630	*3,380	*11.42
No other peaks greater than base discharge			

Minimum discharge, 37 ft³/s, Aug. 26, gage height, 3.54 ft.

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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	43	989	82	320	1,170	596	391	195	126	174	59	41
2	45	662	84	277	e675	408	364	189	139	260	59	54
3	47	507	100	304	e500	329	288	162	147	236	56	55
4	46	424	109	304	e425	292	259	150	113	143	51	45
5	43	366	532	298	e400	282	266	161	99	116	49	43
6	62	324	347	301	e375	280	246	139	131	110	46	41
7	72	226	236	314	e300	310	232	128	356	136	44	39
8	65	123	290	290	e250	336	247	123	268	155	53	44
9	57	136	294	297	e200	345	239	151	217	131	107	45
10	50	127	461	491	e175	436	1,200	161	173	107	132	42
11	46	119	761	597	e400	910	2,210	409	350	156	74	43
12	44	112	438	1,450	617	1,490	1,920	315	370	120	58	50
13	44	164	306	1,730	410	1,150	1,700	210	304	93	131	104
14	43	166	265	1,450	394	803	1,180	181	553	82	110	98
15	43	141	234	1,030	402	e525	833	166	297	74	69	75
16	42	128	219	752	326	e475	652	150	220	66	57	60
17	40	120	245	572	e200	e375	591	134	195	60	52	55
18	39	116	884	498	e150	e325	559	125	160	54	47	54
19	57	108	1,200	e425	e175	e300	511	121	144	53	46	46
20	63	104	705	e360	e175	e275	450	115	126	132	44	43
21	54	103	989	e275	e150	e260	440	109	114	94	42	52
22	64	98	873	e225	e175	e270	374	118	104	70	41	100
23	73	95	546	e180	211	262	301	112	98	182	47	75
24	223	94	437	e160	213	256	252	168	103	145	43	55
25	145	90	390	e150	202	279	263	160	90	86	39	51
26	103	88	339	e150	194	266	242	125	82	71	38	47
27	77	85	245	e160	403	291	222	108	79	61	47	45
28	86	83	360	e175	687	313	210	123	98	79	74	44
29	488	82	330	542	---	292	209	402	217	80	68	43
30	3,060	81	325	1,430	---	303	204	232	170	68	50	42
31	1,700	---	313	1,900	---	314	---	140	---	61	43	---
Total	7,064	6,061	12,939	17,407	9,954	13,348	17,055	5,282	5,643	3,455	1,876	1,631
Mean	228	202	417	562	356	431	568	170	188	111	60.5	54.4
Max	3,060	989	1,200	1,900	1,170	1,490	2,210	409	553	260	132	104
Min	39	81	82	150	150	256	204	108	79	53	38	39
Cfsm	0.68	0.60	1.25	1.68	1.06	1.29	1.70	0.51	0.56	0.33	0.18	0.16
In.	0.78	0.67	1.44	1.93	1.11	1.48	1.89	0.59	0.63	0.38	0.21	0.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	167	233	335	346	400	671	656	351	203	118	101	119
Max	737	647	906	1,181	1,452	1,575	1,537	1,200	913	454	567	1,162
(WY)	(2007)	(1993)	(1978)	(1998)	(1976)	(1979)	(1993)	(2011)	(1989)	(1992)	(2003)	(1977)
Min	24.4	31.3	29.9	30.9	74.6	209	231	109	48.1	22.9	19.9	22.6
(WY)	(1965)	(1965)	(1961)	(1961)	(1963)	(1965)	(1995)	(1995)	(1965)	(1965)	(1965)	(1965)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1959 - 2013	
Annual total	92,597		101,715			
Annual mean	253		279		309	
Highest annual mean					527	2011
Lowest annual mean					137	1965
Highest daily mean	3,060	Oct 30	3,060	Oct 30	5,150	Jan 9, 1998
Lowest daily mean	26	Sep 2	38	Aug 26	8.5	Aug 18, 1970
Annual seven-day minimum	31	Aug 29	42	Aug 20	15	Jul 26, 1965
Annual runoff (cfsm)	0.755		0.832		0.921	
Annual runoff (inches)	10.28		11.29		12.52	
10 percent exceeds	563		564		720	
50 percent exceeds	166		161		157	
90 percent exceeds	43		46		43	

