

**04229500 HONEOYE CREEK AT HONEOYE FALLS, NY**

Southwestern Lake Ontario Basin  
Lower Genesee Subbasin

LOCATION.--Lat 42°57'26", long 77°35'20" referenced to North American Datum of 1983, Monroe County, NY, Hydrologic Unit 04130003, on right bank 25 ft downstream from bridge on State Highway 65 at Honeoye Falls, and 15.3 mi upstream from mouth.

DRAINAGE AREA.--196 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1945 to September 1970, October 1972 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 610.00 ft above NGVD of 1929. Prior to October 1972, at same site at datum 609.76 ft above NGVD of 1929.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Outlet of Honeoye Lake not controlled. Some diversion from and regulation of Hemlock and Canadice Lakes for water supply of city of Rochester. Diurnal fluctuation at low flow caused by mills upstream from station. Prior to 1967 water year, published monthly figures adjusted for change in contents in, and diversion from, Hemlock and Canadice Lakes. During low-water periods the Village of Honeoye Falls pumps water from two deep wells with maximum pumping capacity of 600 gal/min (1.33 ft<sup>3</sup>/s). This pumped water enters creek upstream from gage. U.S. Army Corps of Engineers, Buffalo District, satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,630 ft<sup>3</sup>/s, Mar. 28, 1950, gage height, 6.42 ft, datum then in use; no flow, Aug. 12, 15, 2001.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 23, 1972, reached a stage of about 6.3 ft, present datum, discharge, about 6,600 ft<sup>3</sup>/s, from rating curve extended above 3,300 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Apr 13	0545	*1,540	*3.70
No other peaks greater than base discharge			

Minimum discharge, 1.9 ft<sup>3</sup>/s, Oct. 2, gage height, -0.05 ft.

## 04229500 HONEOYE CREEK AT HONEOYE FALLS, 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	2.3	331	20	e170	367	367	125	89	65	178	13	18
2	2.1	246	20	e150	264	221	137	74	59	175	10	21
3	2.3	213	23	e140	219	167	123	62	66	298	9.0	25
4	2.5	189	29	e130	e160	e120	109	55	52	251	8.0	20
5	3.2	167	73	e130	e130	e110	103	55	40	190	7.3	16
6	6.7	142	99	115	e100	e100	95	46	72	186	11	12
7	5.5	114	73	118	e90	132	89	42	276	138	7.9	9.9
8	11	90	73	e110	e90	143	92	39	198	113	6.9	8.1
9	14	73	80	e100	e80	173	88	50	130	89	9.9	6.5
10	11	62	94	172	e90	229	280	56	100	74	32	6.4
11	8.9	55	179	222	e110	352	1,080	72	166	66	23	6.8
12	7.7	50	150	554	221	496	1,300	101	263	54	15	5.8
13	6.1	66	108	688	159	563	1,250	84	423	44	22	5.1
14	6.6	83	89	518	e120	329	672	67	696	38	82	5.2
15	4.8	65	80	315	148	233	492	54	450	34	43	5.8
16	5.0	54	73	245	e120	197	470	51	282	30	25	6.1
17	5.0	47	82	219	e90	e150	456	44	216	25	18	5.9
18	4.9	42	138	e160	e80	e130	368	36	167	22	13	5.3
19	6.4	38	279	e140	e90	138	367	34	130	23	10	4.4
20	5.8	36	186	e120	e100	e120	327	31	104	40	8.9	3.6
21	9.6	33	240	e100	e90	e110	263	30	83	63	7.2	5.2
22	5.3	31	357	e100	e80	e110	203	27	66	44	7.0	5.2
23	11	30	237	e100	77	107	183	29	57	35	9.7	12
24	13	30	186	e98	76	101	158	37	86	37	14	11
25	26	29	158	e96	71	101	151	43	75	32	14	8.4
26	25	26	136	e94	e66	99	118	41	56	24	11	6.3
27	20	24	e60	e96	e90	103	102	34	49	20	14	4.8
28	19	23	e130	e98	292	110	91	33	79	18	38	3.9
29	38	22	e160	e150	---	117	94	106	390	17	35	3.2
30	584	21	e170	e330	---	112	101	130	317	17	25	2.7
31	714	---	e170	470	---	107	---	97	---	15	21	---
<b>Total</b>	1,586.7	2,432	3,952	6,248	3,670	5,647	9,487	1,749	5,213	2,390	570.8	259.6
<b>Mean</b>	51.2	81.1	127	202	131	182	316	56.4	174	77.1	18.4	8.65
<b>Max</b>	714	331	357	688	367	563	1,300	130	696	298	82	25
<b>Min</b>	2.1	21	20	94	66	99	88	27	40	15	6.9	2.7

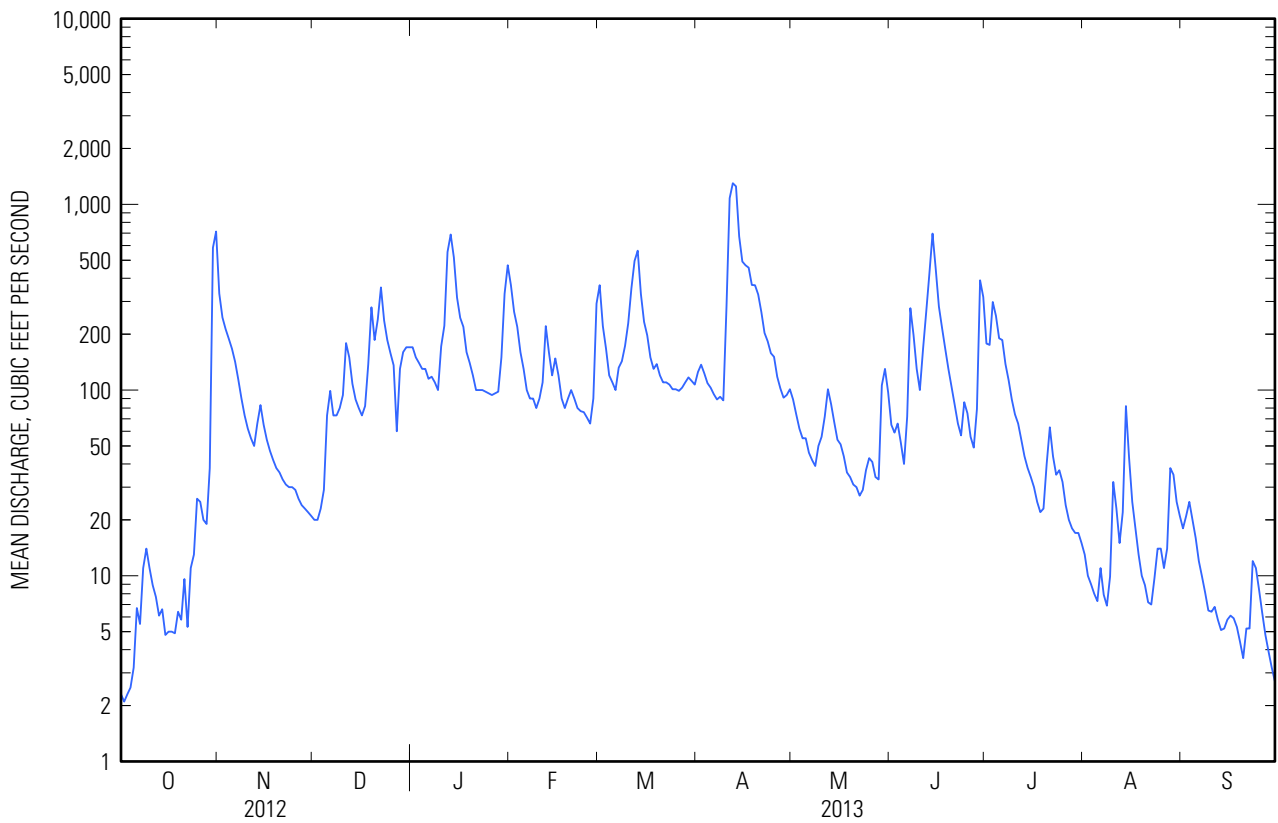
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2013, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	45.4	80.1	138	146	166	309	331	175	79.7	33.2	24.6	23.1
<b>Max</b>	443	345	493	486	664	685	1,146	608	344	377	336	538
<b>(WY)</b>	(1978)	(1978)	(1946)	(1998)	(1976)	(1976)	(1993)	(1996)	(1989)	(1992)	(1992)	(1977)
<b>Min</b>	0.45	2.06	2.04	2.15	10.3	107	50.0	23.7	3.19	0.94	0.24	0.62
<b>(WY)</b>	(1964)	(1961)	(1961)	(1961)	(1958)	(1965)	(1946)	(1995)	(1995)	(2001)	(2001)	(2002)

04229500 HONEOYE CREEK AT HONEOYE FALLS, NY—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1946 - 2013	
<b>Annual total</b>	42,393.87		43,205.1			
<b>Annual mean</b>	116		118		129	
<b>Highest annual mean</b>					238	1993
<b>Lowest annual mean</b>					46.4	1965
<b>Highest daily mean</b>	887	Jan 18	1,300	Apr 12	3,820	Apr 2, 1993
<b>Lowest daily mean</b>	0.04	Sep 1	2.1	Oct 2	0.00	Aug 12, 2001
<b>Annual seven-day minimum</b>	0.06	Aug 28	3.5	Oct 1	0.01	Aug 10, 2001
<b>10 percent exceeds</b>	283		277		334	
<b>50 percent exceeds</b>	68		80		56	
<b>90 percent exceeds</b>	2.0		7.0		2.6	



**04229500 HONEOYE CREEK AT HONEOYE FALLS, NY—Continued**

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1954, 1998 to current year.

CHEMICAL DATA: Water years 1954 (a), 1998 to 2003 (e), 2004 (d), 2005-06 (c), 2007-09 (d), 2010-12 (c), 2013 (e).

NUTRIENT DATA: Water years 1954 (a), 1998 to 2003 (e), 2004 (d), 2005-06 (c), 2007-09 (d), 2010-12 (c), 2013 (e).

INSTRUMENTATION.--Automatic water sampler since March 1998.

REMARKS.--Water-quality records for this site were collected and reported in local standard time.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY. Additional samples collected and analyzed by the USGS in cooperation with the U.S. Environmental Protection Agency's Great Lakes Restoration Initiative (GLRI).

## 04229500 HONEOYE CREEK AT HONEOYE FALLS, NY—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Part 1 of 2

[N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; <, less than]

Begin date	Begin time	Discharge, instantaneous, ft <sup>3</sup> /s (00061)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)	Suspended solids, water, unfiltered, mg/L (00530)	Chloride, water, filtered, mg/L (00940)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, water, filtered, mg/L as N (00608)
10-30-2012	1010	560	--	--	--	--	660	52.5	2.0	0.034
11-05-2012	1045	174	--	291	9.6	205	24	--	--	--
12-04-2012	0950	30	7.7	550	8.3	321	3	54.4	.27	< .010
12-21-2012	1855	347	--	--	--	--	50	42.0	.79	.034
12-22-2012	1540	345	--	--	--	--	36	40.6	.70	.021
01-15-2013	1055	315	--	--	--	--	31	38.8	.36	< .010
01-31-2013	1130	484	--	--	--	--	80	53.9	.77	.053
02-01-2013	0955	323	--	--	--	--	46	53.9	.77	.028
02-02-2013	1015	216	--	--	--	--	22	49.6	.48	.021
02-04-2013	1120	193	--	110	.1	217	< 15	--	--	--
03-04-2013	1200	127	--	--	.3	307	20	67.9	--	.014
03-12-2013	1150	484	--	--	--	--	75	47.7	.55	.019
03-12-2013	1305	537	--	--	--	--	102	48.7	.45	.013
03-13-2013	1835	494	--	--	--	--	83	43.6	1.2	< .010
04-01-2013	0930	121	--	428	8.3	255	< 15	--	--	.013
04-10-2013	2119	568	--	--	--	--	375	85.6	1.8	.173
04-12-2013	1505	1,400	--	--	--	--	200	50.3	.84	.079
04-14-2013	0205	815	--	--	--	--	41	43.9	.44	.053
04-17-2013	1000	469	--	308	10.4	180	24	--	--	< .010
05-07-2013	0815	43	8.4	467	17.2	269	< 30	--	--	< .010
05-20-2013	1245	32	--	437	23.0	268	< 15	--	--	< .010
06-03-2013	1015	66	--	380	19.7	247	< 30	--	--	< .010
06-06-2013	2250	194	--	--	--	--	260	37.0	1.5	.072
06-08-2013	1140	193	--	--	--	--	48	47.4	.91	< .010
06-17-2013	1015	216	--	356	19.4	239	25	--	--	.014
06-17-2013	1030	219	--	--	--	--	40	37.2	.63	< .010
06-29-2013	0600	385	--	--	--	--	186	44.4	1.6	.059
06-29-2013	1930	376	--	--	--	--	104	37.3	1.2	.057
06-30-2013	1230	335	--	--	--	--	55	39.6	.89	.042
07-01-2013	1215	169	--	410	20.3	236	22	--	--	< .010
07-16-2013	0920	30	--	459	24.6	256	< 15	--	--	< .010
07-16-2013	1025	30	--	--	--	--	10	44.5	.33	.011
08-06-2013	1135	14	8.5	489	21.4	282	25	--	--	.020
08-19-2013	1010	11	8.3	434	21.9	248	19	--	--	.015
09-03-2013	0910	25	--	458	21.6	259	20	--	--	.016
09-17-2013	0815	6.2	8.1	478	12.5	269	< 15	--	--	.014

## 04229500 HONEOYE CREEK AT HONEOYE FALLS, NY—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Part 2 of 2

[N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter;  
 °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; <, less than]

Begin date	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrate plus nitrite, water, unfiltered, mg/L as N (00630)	Nitrite, water, filtered, mg/L as N (00613)	Orthophos- phate, water, filtered, mg/L as P (00671)	Phosphorus, water, unfiltered, mg/L as P (00665)
10-30-2012	--	1.62	--	0.050	0.828
11-05-2012	--	--	--	.021	.06
12-04-2012	--	< .020	--	< .005	.006
12-21-2012	--	.624	--	.022	.087
12-22-2012	--	.669	--	.022	.073
01-15-2013	--	.389	--	.013	.030
01-31-2013	--	.771	--	.057	.097
02-01-2013	--	.760	--	.042	.066
02-02-2013	--	.469	--	.034	.020
02-04-2013	--	--	--	.008	.03
03-04-2013	.434	--	.001	.008	.041
03-12-2013	--	1.06	--	.018	.067
03-12-2013	--	.736	--	.013	.079
03-13-2013	--	.499	--	.011	.068
04-01-2013	.112	--	.001	.004	.028
04-10-2013	--	.811	--	.069	.372
04-12-2013	--	.844	--	.038	.170
04-14-2013	--	.630	--	.027	.042
04-17-2013	.177	--	.001	.007	.055
05-07-2013	< .040	--	< .001	< .004	.038
05-20-2013	< .040	--	< .001	.005	.034
06-03-2013	.089	--	.004	.017	.063
06-06-2013	--	3.70	--	.190	.278
06-08-2013	--	5.20	--	.058	.077
06-17-2013	.441	--	.004	.024	.071
06-17-2013	--	.570	--	.170	.067
06-29-2013	--	.836	--	.053	.172
06-29-2013	--	1.45	--	.047	.161
06-30-2013	--	1.06	--	.080	.101
07-01-2013	.493	--	.007	.032	.088
07-16-2013	.129	--	.002	.017	.052
07-16-2013	--	.133	--	.015	.043
08-06-2013	.057	--	.002	.015	.054
08-19-2013	.040	--	.001	.017	.044
09-03-2013	.064	--	.002	.024	.061
09-17-2013	< .040	--	< .001	.015	.042