04235250 FLINT CREEK AT PHELPS, NY

Oswego Basin
Seneca Subbasin

LOCATION.--Lat 42°57′28″, long 77°04′05″ referenced to North American Datum of 1983, Ontario County, NY, Hydrologic Unit 04140201, on right bank 25 ft downstream from bridge on Eagle Street at Phelps, and 1.1 mi upstream from Canandaigua Outlet.

DRAINAGE AREA.--102 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1959 to March 1995, June 2002 to current year.

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 523.14 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Small diversion (during periods of low ground-water level) by Phelps Cement Products, Inc., located about 0.2 mi upstream. Since 1967, flow from Canandaigua Lake diverted into Flint Creek for municipal supply of Village of Gorham; presently not exceeding 0.3 ft^3/s. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,150 ft^3/s, Apr. 26, 2011, gage height, 5.28 ft; maximum gage height, 6.20 ft, Mar. 17, 1963 (ice jam); no flow for many days 1962-65, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 12	1345	*970	*3.90
Jul 8	1945	822	3.74

Minimum discharge, 2.6 ft^3/s, Oct. 18, Sept. 10, 12, gage height, 0.84 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 04235250, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/04235250.2013.pdf

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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	5.0	129	8.1	85	311	163	119	45	48	87	11	7.4
2	e3.6	61	8.5	e75	203	133	130	40	42	135	9.9	6.8
3	e4.8	43	8.8	e75	131	111	109	38	33	215	12	5.8
4	4.9	31	9.8	e80	e90	97	90	34	28	141	9.6	5.2
5	4.2	25	21	79	e80	91	82	32	24	98	9.5	5.1
6	5.8	21	42	77	e65	86	79	30	108	72	8.2	4.4
7	4.7	18	32	75	e50	e90	76	28	320	54	6.8	4.1
8	5.6	16	29	e75	e50	110	73	27	205	163	9.9	4.2
9	6.4	15	35	75	e50	142	80	33	133	206	56	3.3
10	5.2	14	44	89	e50	215	215	43	96	118	29	3.4
11	4.3	14	79	125	e55	314	504	88	268	73	20	3.4
12	4.2	12	73	317	84	412	707	104	249	55	14	3.4
13	3.9	16	53	466	78	436	538	71	334	40	200	4.2
14	4.1	18	42	552	80	304	353	54	392	33	76	6.3
15	3.4	17	36	418	92	190	232	47	221	27	39	9.2
16	3.0	15	33	246	90	145	177	42	134	23	25	8.5
17	2.8	13	36	174	e65	116	159	35	98	19	18	5.7
18	5.7	12	74	130	e45	99	136	32	76	18	14	5.4
19	4.4	12	127	e85	e55	97	117	30	57	17	11	4.8
20	3.4	11	104	e70	e50	99	106	28	46	43	9.2	4.1
21	3.6	11	165	e50	e40	90	92	30	39	34	7.7	4.1
22	5.0	10	221	e40	e40	83	81	62	33	25	7.0	4.7
23	5.5	9.6	152	e35	52	78	72	55	30	29	6.2	6.4
24	5.7	8.7	114	e35	50	79	68	69	35	27	5.9	6.9
25	12	7.7	95	e35	49	84	63	71	30	22	4.9	5.9
26	11	8.7	e74	e35	51	85	58	52	25	16	7.0	5.0
27	9.4	8.6	e46	e35	76	93	54	41	23	14	10	4.4
28	9.4	8.1	e56	e35	124	101	50	37	31	14	9.4	3.9
29	13	7.8	e58	e60	---	101	51	108	61	14	11	3.6
30	117	7.6	e58	217	---	97	50	100	127	14	9.8	3.2
31	186	---	96	341	---	99	---	68	---	12	8.5	---
Total	467.0	600.8	2,030.2	4,286	2,256	4,440	4,721	1,574	3,346	1,858	675.5	152.8
Mean	15.1	20.0	65.5	138	80.6	143	157	50.8	112	59.9	21.8	5.09
Max	186	129	221	552	311	436	707	108	392	215	200	9.2
Min	2.8	7.6	8.1	35	40	78	50	27	23	12	4.9	3.2
Cfsm	0.15	0.20	0.64	1.36	0.79	1.40	1.54	0.50	1.09	0.59	0.21	0.05
In.	0.17	0.22	0.74	1.56	0.82	1.62	1.72	0.57	1.22	0.68	0.25	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	42.8	68.6	110	89.7	113	239	220	100	59.3	25.1	16.9	25.0
Max	257	249	330	237	455	484	618	259	502	167	131	249
(WY)	(1978)	(1978)	(1973)	(2006)	(1976)	(1978)	(1993)	(1989)	(1972)	(1972)	(1992)	(1977)
Min	0.16	2.85	4.08	3.66	19.1	69.0	52.1	31.1	8.73	0.94	0.02	0.03
(WY)	(1965)	(1965)	(1961)	(1961)	(1989)	(1965)	(1981)	(1987)	(1965)	(1965)	(1965)	(1965)

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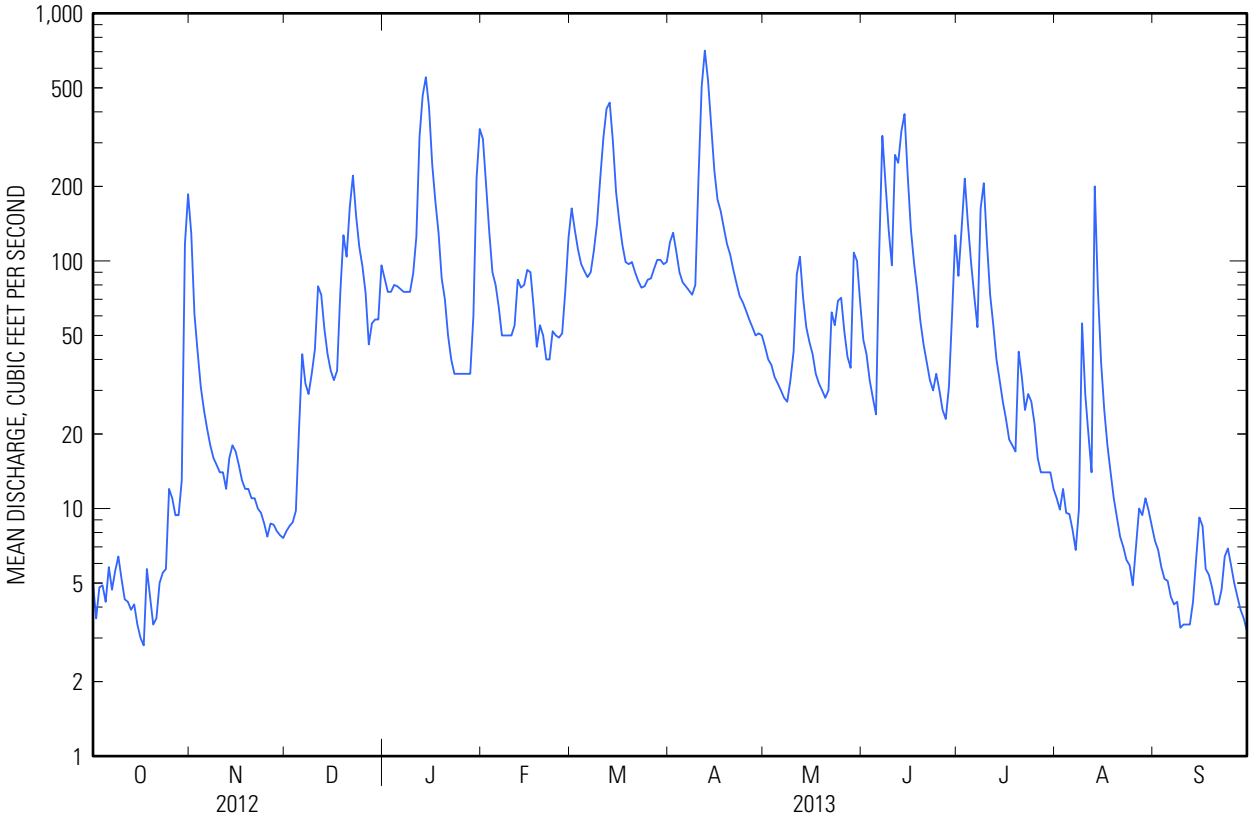
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1960 - 2013	
Annual total	21,584.78		26,407.3			
Annual mean	59.0		72.3		92.9	
Highest annual mean					162	1978
Lowest annual mean					32.2	1965
Highest daily mean	464	Jan 27	707	Apr 12	2,670	Jun 24, 1972
Lowest daily mean	0.29	Aug 25	2.8	Oct 17	0.00	Sep 16, 1962
Annual seven-day minimum	0.50	Aug 22	3.7	Oct 11	0.00	Sep 16, 1962
Annual runoff (cfsm)	0.578		0.709		0.911	
Annual runoff (inches)	7.87		9.63		12.37	
10 percent exceeds	151		164		232	
50 percent exceeds	30		43		40	
90 percent exceeds	2.7		5.2		4.1