Water-Data Report 2010

04220250 WEST CREEK NEAR HILTON, NY

Southwestern Lake Ontario Basin
Oak Orchard-Twelvemile Subbasin

LOCATION.--Lat 43°18′10″, long 77°48′50″ referenced to North American Datum of 1927, Monroe County, NY, Hydrologic Unit 04130001, on right bank just downstream from bridge on Collamer Road, 0.5 mi north of Collamer, and 1.5 mi northwest of Hilton.

DRAINAGE AREA.--31.0 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1957 to September 1964, October 1970 to September 1972 (annual maximum only), October 1986 to Septemebr 2002 (annual maximum only), May 2004 to current year.

GAGE.--Water-stage recorder. Datum of gage is 261.53 ft above NGVD of 1929. Prior to Oct. 1, 1957, wire-weight gage at same site and datum.

COOPERATION.--Discharge measurements were provided by the Monroe County Department of Environmental Services. Prior to 2003, discharge measurements were provided by Environmental Health Laboratory at Rochester, N.Y.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Discharge includes undetermined diversion from Erie (Barge) Canal upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,720 ft^3/s, Sept. 9, 2004, gage height, 10.54 ft; maximum gage height, 10.67 ft, Mar. 30, 1960; minimum daily discharge, about 0.01 ft/s, June 10, July 8-10, 2008, result of unknown regulation or diversion. Minimum instantaneous discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 706 ft^3/s, Jan. 25, gage height, 7.55 ft; minimum daily discharge, 0.23 ft^3/s, Oct. 1. Minimum instantaneous discharge not determined.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.23	5.5	20	e26	14	26	20	4.2	4.1	7.6	5.2	4.8
2	0.92	4.8	29	e27	11	36	14	4.1	6.4	5.4	6.5	4.8
3	1.00	2.9	69	e26	10	47	11	4.1	5.5	4.8	6.8	4.6
4	1.8	2.2	50	25	10	57	9.4	4.3	6.3	4.5	5.4	4.8
5	1.6	2.0	30	24	10	63	8.4	4.4	12	4.4	5.2	4.7
6	1.2	1.9	23	23	10	65	8.8	9.1	242	4.2	7.5	4.9
7	0.94	1.9	18	24	9.3	68	20	9.6	416	4.5	6.0	5.0
8	0.85	2.0	14	25	8.8	108	77	39	70	5.8	6.1	4.9
9	0.89	1.9	27	25	8.2	213	56	32	25	7.3	8.1	5.0
10	1.0	1.9	93	25	8.4	258	30	20	22	9.9	11	5.0
11	1.1	1.9	38	26	8.5	362	20	11	16	9.4	10	5.0
12	1.3	1.8	25	25	8.2	476	12	9.1	13	5.7	7.1	4.9
13	1.7	1.8	17	25	8.2	357	9.4	10	12	13	6.6	5.0
14	1.6	1.8	e20	25	8.2	563	8.4	43	12	17	5.9	5.8
15	1.4	1.8	e20	31	8.2	236	7.7	31	9.6	11	6.3	4.8
16	1.3	2.1	e22	62	8.6	77	7.3	16	8.6	8.0	8.1	5.2
17	1.3	2.9	e25	91	8.7	45	7.1	9.7	11	6.8	6.1	5.7
18	1.4	3.7	24	125	8.7	33	7.1	7.4	8.3	5.6	5.6	5.1
19	1.3	4.9	19	100	9.2	26	7.2	6.7	6.3	4.9	5.6	4.8
20	1.3	16	15	65	9.7	21	6.8	6.1	4.9	5.8	5.5	4.9
21	1.3	26	13	40	10	16	6.3	4.8	4.6	5.6	5.2	4.8
22	1.4	18	11	30	11	15	5.8	4.2	5.5	9.3	8.0	4.7
23	1.4	12	9.7	22	13	194	5.3	3.9	7.3	14	9.8	4.8
24	1.9	10	9.2	24	15	290	4.8	3.5	6.8	27	10	4.6
25	4.5	9.8	11	487	e15	70	4.8	3.3	5.5	47	7.0	4.4
26	2.7	9.9	167	314	11	37	6.0	3.0	5.1	22	7.3	4.9
27	2.1	11	320	67	13	26	6.8	5.2	5.2	11	6.0	5.1
28	2.9	11	90	34	21	22	5.6	5.0	11	8.1	5.4	5.5
29	9.4	10	36	e27	---	38	4.8	4.7	15	6.8	5.2	5.7
30	7.6	11	34	e23	---	36	4.4	3.3	11	7.8	5.0	5.8
31	4.7	---	27	e17	---	26	---	3.0	---	5.7	5.0	---
Total	64.03	194.4	1,325.9	1,910	294.9	3,907	402.2	324.7	988.0	309.9	208.5	150.0
Mean	2.07	6.48	42.8	61.6	10.5	126	13.4	10.5	32.9	10.0	6.73	5.00
Max	9.4	26	320	487	21	563	77	43	416	47	11	5.8
Min	0.23	1.8	9.2	17	8.2	15	4.4	3.0	4.1	4.2	5.0	4.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	13.4	14.5	34.2	36.7	43.4	96.9	49.4	12.4	10.7	12.7	9.43	13.9
Max	85.4	44.0	82.4	81.8	129	135	114	38.2	32.9	56.8	31.3	81.2
(WY)	(2007)	(2007)	(2007)	(2007)	(1960)	(2007)	(2005)	(1960)	(2010)	(2009)	(2006)	(2004)
Min	2.07	2.20	1.11	0.75	4.24	31.3	13.4	4.16	1.98	2.80	1.44	0.14
(WY)	(2010)	(1961)	(1961)	(1961)	(1963)	(2006)	(2010)	(1959)	(1958)	(1958)	(2009)	(2009)

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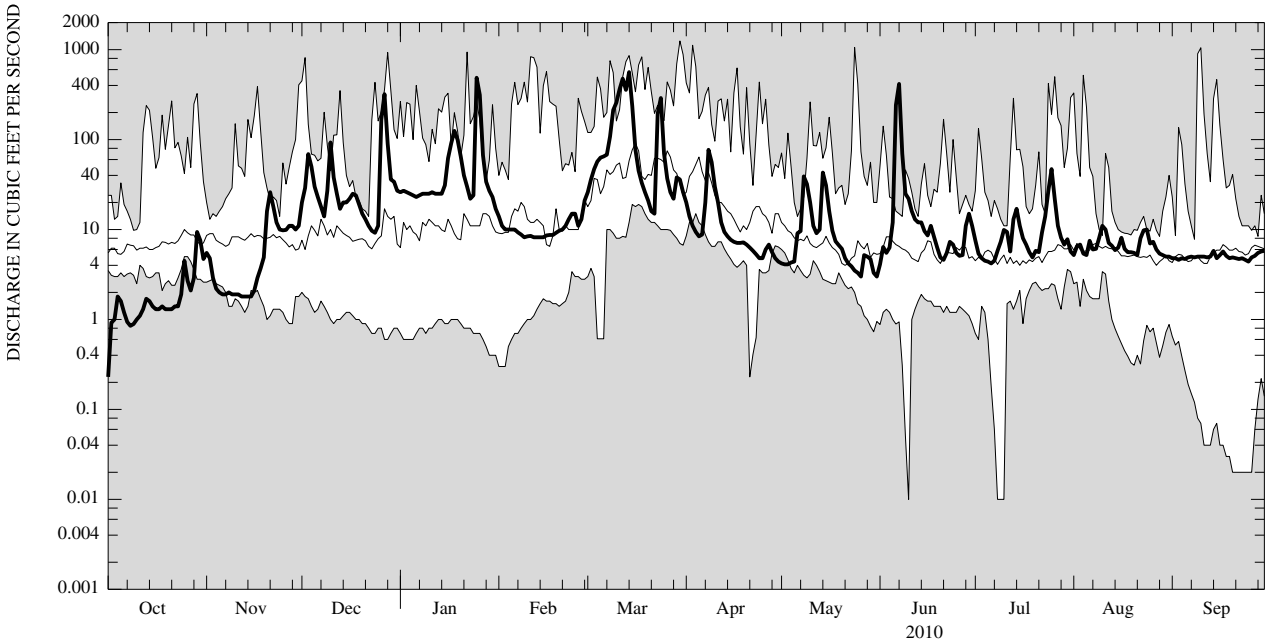
SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1958 - 2010	
Annual total	10,816.15		10,079.53			
Annual mean	29.6		27.6		28.2	
Highest annual mean					44.3	2007
Lowest annual mean					15.1	1958
Highest daily mean	814	Feb 12	563	Mar 14	1,250	Mar 30, 1960
Lowest daily mean	0.02	Sep 20	0.23	Oct 1	0.01	Jun 10, 2008
Annual seven-day minimum	0.02	Sep 20	1.0	Oct 6	0.02	Sep 20, 2009
10 percent exceeds	38		47		60	
50 percent exceeds	7.5		8.4		7.3	
90 percent exceeds	0.52		2.1		2.3	



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.