04220045 OAK ORCHARD CREEK NEAR SHELBY, NY

Southwestern Lake Ontario Basin
Oak Orchard-Twelvemile Subbasin

LOCATION.--Lat 43°10′25″, long 78°23′12″ referenced to North American Datum of 1983, Orleans County, NY, Hydrologic Unit 04130001, on right bank, at bridge on Harrison Road, 0.2 mi east of State Highway 63, 1.1 mi south of Shelby, and 4.7 mi upstream from Erie (Barge) Canal crossing at Medina.

DRAINAGE AREA.--146 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional discharge measurements, water year 1976. October 1976 to September 1978 (annual maximum only), December 2008 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 600 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,100 ft^3/s, Mar. 13, 2011, gage height, 11.21 ft; maximum gage height, 11.33 ft, Feb. 15, 2009; minimum discharge, 2.8 ft^3/s, Sept. 23, 2009, gage height, 4.91 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,100 ft^3/s, Mar. 13, gage height, 11.21 ft; minimum discharge, 9.5 ft^3/s, July 22, 29, Sept. 19, gage height, 5.02 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 04220045, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/04220045.2011.pdf

04220045 OAK ORCHARD CREEK NEAR SHELBY, NY—Continued

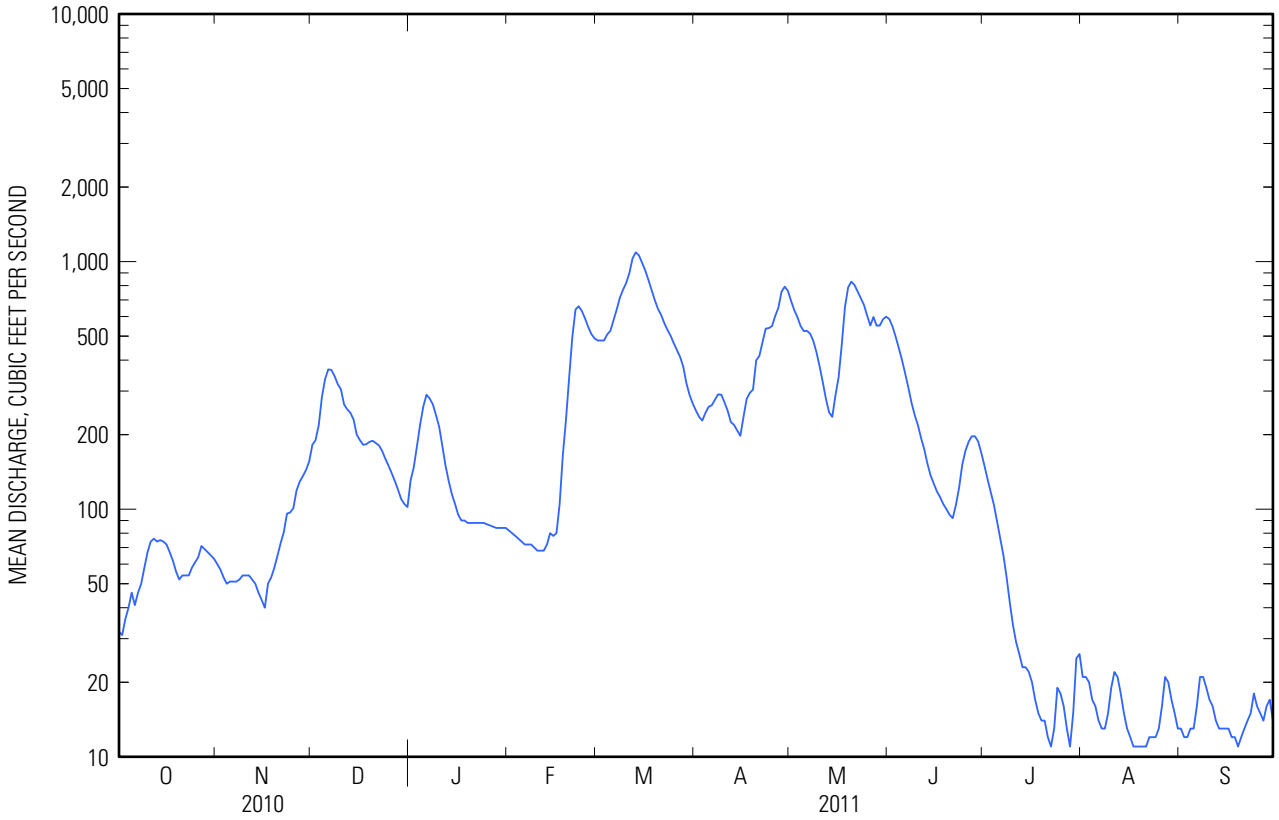
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	32	60	182	131	e82	e480	250	694	586	150	21	13
2	31	57	190	148	e80	e480	236	637	547	132	21	12
3	36	53	218	e180	e78	e480	228	597	497	117	20	12
4	40	50	283	220	e76	508	245	550	447	104	17	13
5	46	51	335	e260	e74	e525	259	524	400	89	16	13
6	41	51	367	e290	e72	e580	263	525	353	76	14	16
7	46	51	e365	e280	e72	e640	277	512	310	65	13	21
8	50	52	e345	e265	e72	e715	291	479	269	53	13	21
9	58	54	e320	e240	e70	e770	290	431	240	42	15	19
10	67	54	e305	e215	e68	e820	270	378	219	34	19	17
11	74	54	265	e180	e68	e900	250	326	194	29	22	16
12	76	52	253	e150	e68	1,030	225	279	175	26	21	14
13	74	50	245	e130	e72	1,090	219	246	153	23	18	13
14	75	46	e230	e115	e80	1,060	208	236	137	23	15	13
15	74	43	e200	e105	e78	e990	198	288	127	22	13	13
16	72	40	e190	e95	e80	921	236	341	118	20	12	13
17	67	50	182	e90	e105	844	279	463	112	17	11	12
18	62	53	183	e90	e165	768	295	655	105	15	11	12
19	56	58	187	88	e230	700	304	786	100	14	11	11
20	52	65	189	e88	e340	645	399	830	95	14	11	12
21	54	73	e185	e88	495	609	416	805	92	12	11	13
22	54	81	181	e88	e640	565	473	757	104	11	12	14
23	54	96	172	e88	e660	530	536	712	122	13	12	15
24	58	97	e160	e88	632	502	539	668	151	19	12	18
25	61	101	e150	87	e590	468	549	605	172	18	13	16
26	64	119	e140	86	e545	439	603	552	187	16	16	15
27	71	129	e130	85	e510	412	651	597	197	13	21	14
28	69	136	e120	84	e490	376	756	551	197	11	20	16
29	67	144	110	84	---	322	792	552	188	15	17	17
30	65	156	e105	84	---	289	762	585	169	25	15	14
31	63	---	102	e84	---	267	---	599	---	26	13	---
Total	1,809	2,176	6,589	4,306	6,592	19,725	11,299	16,760	6,763	1,244	476	438
Mean	58.4	72.5	213	139	235	636	377	541	225	40.1	15.4	14.6
Max	76	156	367	290	660	1,090	792	830	586	150	22	21
Min	31	40	102	84	68	267	198	236	92	11	11	11
Cfsm	0.40	0.50	1.46	0.95	1.61	4.36	2.58	3.70	1.54	0.27	0.11	0.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2009 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	79.4	98.3	228	246	283	515	260	229	130	70.1	48.1	18.2
Max	100	124	243	337	452	636	377	541	225	100	88.2	23.5
(WY)	(2010)	(2010)	(2010)	(2009)	(2009)	(2011)	(2011)	(2011)	(2011)	(2009)	(2009)	(2009)
Min	58.4	72.5	213	139	160	447	180	68.2	35.9	40.1	15.4	14.6
(WY)	(2011)	(2011)	(2011)	(2011)	(2010)	(2010)	(2010)	(2009)	(2009)	(2011)	(2011)	(2011)

04220045 OAK ORCHARD CREEK NEAR SHELBY, NY—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 2009 - 2011	
Annual total	52,656		78,177			
Annual mean	144		214		184	
Highest annual mean					214	2011
Lowest annual mean					155	2010
Highest daily mean	1,020	Mar 16	1,090	Mar 13	1,090	Mar 13, 2011
Lowest daily mean	11	Sep 23	11	Jul 22	4.2	Sep 24, 2009
Annual seven-day minimum	13	Sep 21	11	Aug 16	9.9	Sep 22, 2009
Annual runoff (cfsm)	0.988		1.47		1.26	
10 percent exceeds	330		593		502	
50 percent exceeds	94		105		110	
90 percent exceeds	27		14		16