Water-Data Report 2011

04240120 LEY CREEK AT PARK STREET, SYRACUSE, NY

Oswego Basin
Seneca Subbasin

LOCATION.--Lat 43°04′38″, long 76°10′13″ referenced to North American Datum of 1983, Onondaga County, NY, Hydrologic Unit 04140201, on left bank 0.2 mi upstream from bridge on Park Street, in Syracuse, and 0.4 mi upstream from mouth.

DRAINAGE AREA.--29.9 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional discharge measurements, water years 1959-72. December 1972 to current year.

REVISED RECORDS.--WDR NY-76-1: 1975 (M). WDR NY-79-1: Datum.

GAGE.--Acoustic velocity meter, water-stage recorder, crest-stage gage, and since July 9, 1984, steel "I" beam control. Acoustic velocity meter since 2010. Datum of gage is 362.76 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records good. Flow may be affected by backwater from Onondaga Lake at times when the lake elevation exceeds 364.0 ft. Telephone and satellite gage-height and velocity telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,410 ft^3/s, Apr. 26, 2011, gage height, 5.02 ft; maximum gage height, 7.02 ft, Apr. 26, 1993 (backwater from Onondaga Lake); minimum discharge not determined; minimum gage height, 0.28 ft, Feb. 6-8, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,410 ft^3/s, Apr. 26, gage height, 5.02 ft; minimum discharge, 3.0 ft^3/s, July 23; minimum gage height, 0.90 ft, July 24.

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 04240120, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/04240120.2011.pdf

04240120 LEY CREEK AT PARK STREET, SYRACUSE, NY—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	421	33	383	65	17	106	31	62	20	13	9.5	15
2	132	27	264	126	16	75	35	51	17	12	8.8	13
3	48	24	131	71	18	53	30	136	17	12	43	12
4	29	29	58	44	18	41	89	255	15	11	24	11
5	49	49	44	35	18	103	169	106	14	11	11	63
6	53	39	40	31	21	312	96	63	14	12	14	43
7	96	30	40	27	23	146	56	48	14	10	27	312
8	46	26	40	24	25	104	42	39	15	51	20	469
9	29	26	40	23	24	80	35	32	13	37	130	156
10	22	22	38	21	24	140	31	29	12	17	143	59
11	18	20	40	21	22	373	28	26	18	14	60	27
12	16	18	57	22	22	209	24	24	29	12	23	21
13	14	17	101	20	21	157	111	22	17	10	15	17
14	17	17	62	19	50	111	72	24	14	10	24	18
15	143	25	44	21	58	90	45	79	13	10	54	25
16	126	31	38	20	45	119	46	140	13	9.5	67	15
17	61	117	36	19	43	120	178	94	14	8.9	25	12
18	35	62	34	20	248	139	91	55	12	43	17	11
19	25	64	32	21	174	101	59	70	12	15	14	10
20	20	39	30	21	100	60	369	76	11	11	12	31
21	28	27	29	20	76	89	136	45	11	9.2	34	14
22	24	51	29	19	55	69	65	33	82	8.1	39	30
23	18	106	28	19	42	51	240	27	90	7.0	19	30
24	22	75	26	16	34	56	135	31	77	7.2	13	43
25	51	51	23	15	32	48	94	25	90	8.8	48	22
26	67	106	23	17	30	38	608	26	30	13	16	17
27	92	64	21	19	32	33	614	42	21	8.7	12	14
28	48	44	20	19	135	30	556	108	23	7.6	134	14
29	50	34	19	19	---	28	229	40	18	53	70	177
30	39	44	19	19	---	27	89	31	15	24	29	96
31	35	---	21	18	---	30	---	23	---	9.6	17	---
Mean	60.5	43.9	58.4	28.1	50.8	101	147	60.1	25.4	15.7	37.8	59.9
Max	421	117	383	126	248	373	614	255	90	53	143	469
Min	14	17	19	15	16	27	24	22	11	7.0	8.8	10
Cfsm	2.02	1.47	1.95	0.94	1.70	3.39	4.91	2.01	0.85	0.52	1.26	2.00
In.	2.33	1.64	2.25	1.08	1.77	3.90	5.48	2.32	0.95	0.60	1.46	2.24

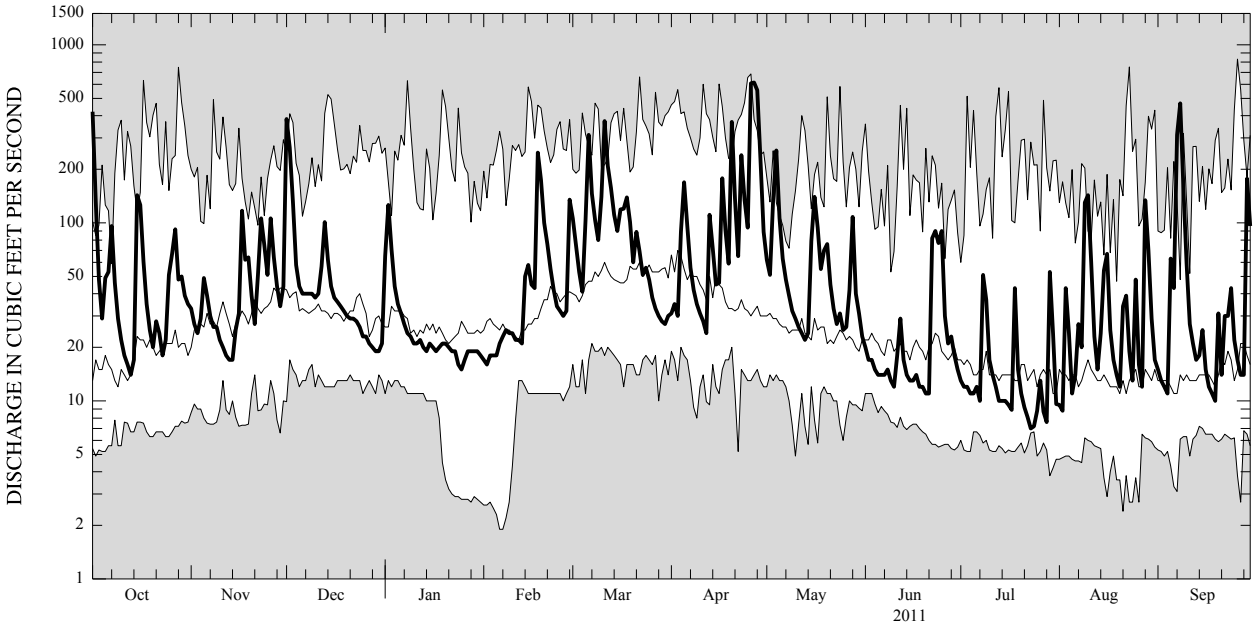
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	35.3	45.6	54.0	42.0	50.2	77.3	73.0	40.5	31.5	27.9	24.7	28.8
Max	129	102	145	107	125	154	334	94.8	71.4	89.9	68.5	99.1
(WY)	(1978)	(1978)	(1978)	(1998)	(1976)	(1978)	(1993)	(1996)	(1973)	(2006)	(2010)	(1975)
Min	7.01	17.3	18.5	11.0	16.1	25.0	22.5	12.7	11.8	10.6	8.13	9.07
(WY)	(1983)	(1979)	(1989)	(1977)	(1993)	(1981)	(1981)	(1987)	(1995)	(1995)	(2007)	(1994)

04240120 LEY CREEK AT PARK STREET, SYRACUSE, NY—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1972 - 2011	
Annual mean	44.7		57.3		43.8	
Highest annual mean					69.8	1978
Lowest annual mean					24.8	1995
Highest daily mean	751	Aug 23	614	Apr 27	831	Sep 26, 1975
Lowest daily mean	7.0	Sep 25	7.0	Jul 23	1.9	Feb 6, 1977
Annual seven-day minimum	8.2	Sep 20	8.6	Jul 22	2.3	Feb 2, 1977
Annual runoff (cfsm)	1.49		1.92		1.47	
Annual runoff (inches)	20.30		26.02		19.92	
10 percent exceeds	94		128		94	
50 percent exceeds	25		30		25	
90 percent exceeds	10		13		10	



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.