Water-Data Report 2011

04240010 ONONDAGA CREEK AT SPENCER STREET, SYRACUSE, NY

Oswego Basin
Seneca Subbasin

LOCATION.--Lat 43°03′27″, long 76°09′46″ referenced to North American Datum of 1927, Onondaga County, NY, Hydrologic Unit 04140201, on right bank 450 ft upstream from bridge on Spencer Street in Syracuse, 1,200 ft upstream from Erie (Barge) Canal terminal, and 1.0 mi upstream from mouth.

DRAINAGE AREA.--110 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional discharge measurements, water years 1958-70. September 1970 to current year.

REVISED RECORDS.--WDR NY-72-1: 1971 (M). WDR NY-75-1: 1972 (M), 1974 (M). WDR NY-81-3: Drainage area. WDR NY-89-3: 1971-72(M), 1974-80 (M), 1982-84 (M), 1986 (M), 1988 (M).

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 362.29 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair. High flows regulated by Onondaga Reservoir. Flow may be affected by backwater from Onondaga Lake at times when the lake elevation exceeds 365.00 ft. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,050 ft^3/s, July 3, 1974, gage height, 8.73 ft, from rating curve extended above 1,700 ft^3/s on basis of runoff comparisons with nearby stations; minimum discharge, 20 ft^3/s, Sept. 26, 1985, gage height, 2.16 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,960 ft^3/s, Sept. 7, gage height, 7.18 ft; minimum discharge, 51 ft^3/s, Aug. 3, gage height, 2.46 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 04240010, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/04240010.2011.pdf

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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	890	179	653	400	116	570	303	757	167	98	56	67
2	741	166	806	491	e125	416	291	582	149	94	54	65
3	351	157	634	349	127	290	269	563	140	92	71	62
4	197	161	361	267	116	273	417	780	136	89	76	59
5	255	220	315	254	e125	354	667	719	138	83	61	68
6	364	208	300	236	161	911	649	587	132	82	60	91
7	303	179	288	229	156	848	485	488	124	83	89	491
8	237	165	277	194	157	764	368	403	118	104	69	775
9	187	159	262	205	e130	615	331	339	112	83	149	592
10	163	148	239	191	e135	571	309	304	110	77	120	219
11	152	140	261	187	e120	1,280	298	281	179	75	81	144
12	146	134	312	186	141	1,160	276	263	187	72	68	123
13	137	131	580	178	132	1,070	404	254	146	70	63	109
14	133	128	421	173	160	974	411	244	135	70	78	99
15	326	127	320	154	202	857	315	294	125	67	90	107
16	624	129	298	e150	182	743	300	483	112	66	118	108
17	388	280	284	144	188	715	600	454	106	64	83	94
18	257	259	270	170	577	850	548	329	112	85	70	88
19	216	227	238	175	751	819	403	304	99	83	70	84
20	193	203	248	160	598	664	502	287	93	69	65	90
21	189	176	235	154	410	600	424	256	90	62	64	88
22	207	174	225	e130	288	627	347	228	222	58	67	88
23	189	253	216	e125	253	515	515	214	230	56	59	92
24	180	245	205	e120	262	452	522	234	160	55	56	102
25	185	200	198	138	265	410	465	199	177	55	79	91
26	252	253	184	141	241	358	e750	218	142	59	67	82
27	325	234	158	140	234	326	e950	298	119	65	60	78
28	253	192	174	137	415	304	1,270	339	118	56	158	80
29	217	175	176	134	---	291	1,110	241	130	78	157	265
30	208	170	164	132	---	281	982	215	108	66	86	251
31	191	---	181	e115	---	298	---	185	---	58	71	---
Total	8,656	5,572	9,483	5,959	6,767	19,206	15,481	11,342	4,116	2,274	2,515	4,752
Mean	279	186	306	192	242	620	516	366	137	73.4	81.1	158
Max	890	280	806	491	751	1,280	1,270	780	230	104	158	775
Min	133	127	158	115	116	273	269	185	90	55	54	59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	115	157	211	197	219	344	353	200	141	104	83.8	88.2
Max	424	324	452	425	457	653	935	390	617	294	180	275
(WY)	(1978)	(1978)	(1973)	(1998)	(1976)	(1979)	(1993)	(2000)	(1972)	(2006)	(2004)	(1975)
Min	39.2	48.9	53.9	73.6	70.4	123	153	78.8	49.3	39.6	30.4	36.2
(WY)	(1984)	(1999)	(1999)	(1981)	(1980)	(1983)	(1995)	(1995)	(1995)	(1995)	(1999)	(1995)

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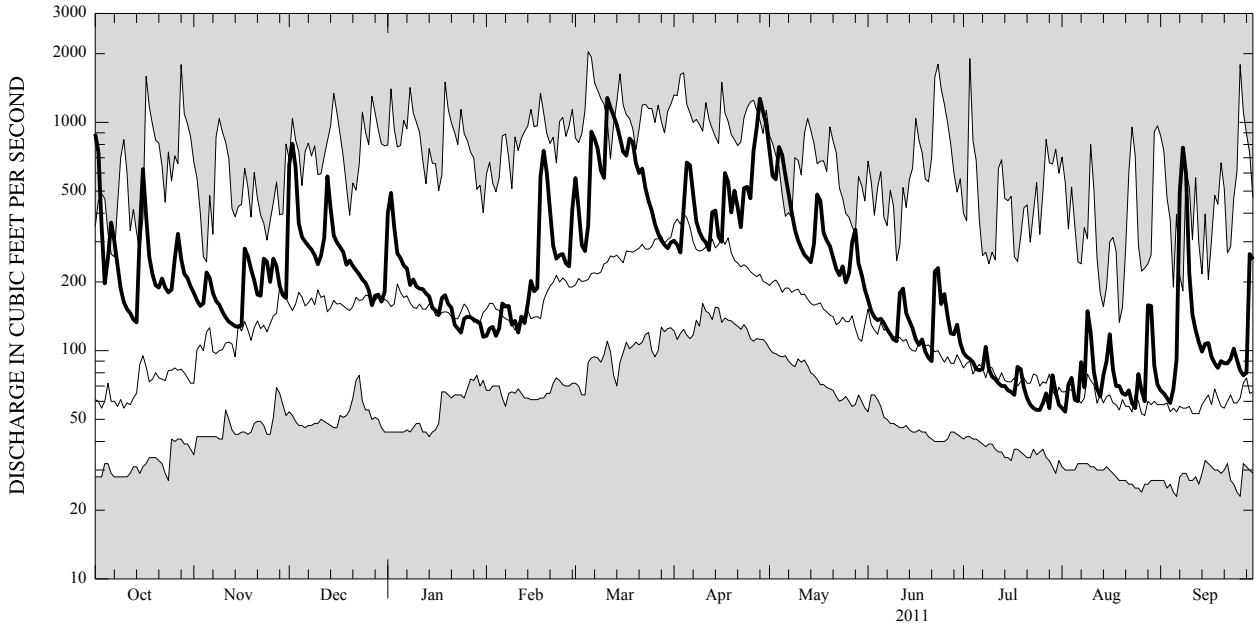
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1970 - 2011	
Annual total	69,490		96,123			
Annual mean	190		263		184	
Highest annual mean					273	1976
Lowest annual mean					100	1995
Highest daily mean	952	Aug 23	1,280	Mar 11	2,040	Mar 5, 1979
Lowest daily mean	53	Aug 14	54	Aug 2	23	Sep 26, 1985
Annual seven-day minimum	57	Aug 8	58	Jul 22	26	Aug 31, 1999
10 percent exceeds	335		594		366	
50 percent exceeds	143		187		130	
90 percent exceeds	70		70		50	



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.