Water-Data Report 2012

04247000 ONEIDA RIVER NEAR EUCLID, NY

Oswego Basin
Oneida Subbasin

LOCATION.--Lat 43°12′18″, long 76°13′04″ referenced to North American Datum of 1983, Oswego County, NY, Hydrologic Unit 04140202, on right bank, 50 ft downstream of Morgan Road bridge, 9.2 mi downstream from Oneida Lake, 1.3 mi north of Euclid, and 7.7 mi upstream from mouth at Three Rivers.

DRAINAGE AREA.--1,439 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1996 to current year. Records for September 1902 to December 1909, published as "Oneida River near Euclid," and January 1910 to December 1912 and October 1947 to September 1998, published as "Oneida River at Caughdenoy" (station 04246500) at site 7.6 mi upstream, are not equivalent because of regulation between sites.

GAGE.--Acoustic velocity meter and water-stage recorder. Datum of gage is 358.08 ft above NGVD of 1929.

COOPERATION.--Records of gate openings, lockages, and elevations of water surface in Erie (Barge) Canal above and below Lock 23, furnished by New York State Thruway Authority, Office of Canals.

REMARKS.--Records fair. No estimated daily discharges. Considerable seasonal regulation by operation of gates in Oneida River and Erie (Barge) Canal with a large amount of natural storage in Oneida Lake. Water may be diverted into or received from Mohawk River basin through summit level of Erie (Barge) Canal between New London and Utica. Nearly all of flow from 14 mi^2 of Tioughnioga River basin may be diverted into De Ruyter Reservoir, in Oswego River basin. Telephone and satellite gage-height and velocity telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 10,600 ft^3/s, May 1, 2011; minimum daily discharge, -52 ft^3/s, June 1, 2006. Maximum and minimum instantaneous discharges not determined.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 6,290 ft^3/s, May 9; minimum daily discharge, 79 ft^3/s, Apr. 10. Maximum and minimum instantaneous discharges not determined.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4,650	2,440	5,740	4,520	5,530	3,400	121	1,620	4,920	151	409	204
2	4,630	3,360	5,600	4,250	5,650	3,460	266	3,860	4,790	189	389	240
3	4,990	3,320	5,580	4,360	5,490	3,460	280	3,800	4,710	305	422	335
4	4,210	2,900	5,510	4,330	5,410	3,450	297	4,040	3,570	147	437	306
5	1,860	1,870	5,240	4,160	5,270	3,380	232	4,540	2,200	150	369	255
6	1,380	1,420	5,080	4,120	5,050	3,470	196	3,630	1,920	292	340	209
7	806	1,370	4,930	3,990	4,920	3,510	237	4,240	857	191	310	249
8	428	1,380	4,870	3,850	4,850	3,420	258	5,650	221	171	377	330
9	430	1,380	5,150	3,840	4,610	3,420	261	6,290	310	238	313	274
10	477	1,390	5,000	3,600	4,490	3,640	79	6,130	1,320	232	461	243
11	1,600	1,390	4,930	3,670	4,330	3,820	188	6,010	2,220	274	329	311
12	2,930	1,450	4,810	4,330	4,250	3,790	213	5,710	2,230	265	300	256
13	1,890	1,440	4,650	4,120	4,120	3,690	256	5,280	2,190	336	311	355
14	1,180	2,530	4,550	4,410	3,970	3,690	225	3,090	2,220	321	283	349
15	2,070	4,400	4,530	4,450	3,770	3,950	238	853	1,430	281	223	247
16	2,730	5,240	4,300	4,420	3,800	2,500	220	423	1,010	140	268	248
17	3,880	5,040	4,590	4,300	3,710	1,570	166	429	726	249	319	281
18	4,630	4,980	4,640	4,380	3,670	1,450	246	348	479	302	305	224
19	2,830	3,940	4,580	4,520	3,570	1,360	1,740	502	440	297	301	301
20	2,520	1,810	4,500	4,450	3,450	1,270	2,760	1,230	452	287	327	316
21	3,400	996	4,520	4,300	3,500	1,390	2,670	1,750	442	227	306	301
22	3,360	1,430	4,410	4,160	3,420	2,300	2,480	1,510	208	188	336	304
23	2,460	3,720	4,600	4,170	3,380	2,940	4,370	3,550	145	395	275	287
24	1,480	5,120	4,680	4,190	3,430	3,130	5,760	2,650	243	289	282	224
25	1,160	5,150	4,710	4,080	3,240	3,050	5,830	946	249	269	328	227
26	2,670	5,330	4,530	4,150	3,340	1,740	5,660	646	235	211	390	308
27	4,590	5,690	4,620	4,780	3,320	770	5,050	354	157	299	391	377
28	5,540	5,690	4,250	5,260	3,140	522	3,400	373	447	282	226	316
29	5,480	5,790	4,600	5,330	3,500	184	2,220	557	306	280	250	298
30	4,080	5,680	4,720	5,490	---	285	1,470	1,170	163	392	270	261
31	2,040	---	4,570	5,500	---	236	---	3,090	---	441	212	---
Total	86,381	97,646	148,990	135,480	120,180	78,247	47,389	84,271	40,810	8,091	10,059	8,436
Mean	2,786	3,255	4,806	4,370	4,144	2,524	1,580	2,718	1,360	261	324	281
Max	5,540	5,790	5,740	5,500	5,650	3,950	5,830	6,290	4,920	441	461	377
Min	428	996	4,250	3,600	3,140	184	79	348	145	140	212	204

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,421	3,180	4,629	4,086	3,426	4,451	5,132	3,015	1,875	1,296	1,076	1,245
Max	5,465	6,804	6,283	6,199	4,999	6,523	8,277	7,123	3,122	4,738	2,306	4,271
(WY)	(2011)	(2007)	(2005)	(1998)	(2006)	(2011)	(2007)	(2011)	(2002)	(2006)	(2004)	(2004)
Min	688	1,832	2,578	2,519	2,414	2,524	1,580	1,146	469	261	261	281
(WY)	(1999)	(1999)	(1999)	(2002)	(2011)	(2012)	(2012)	(1999)	(1999)	(2012)	(1999)	(2012)

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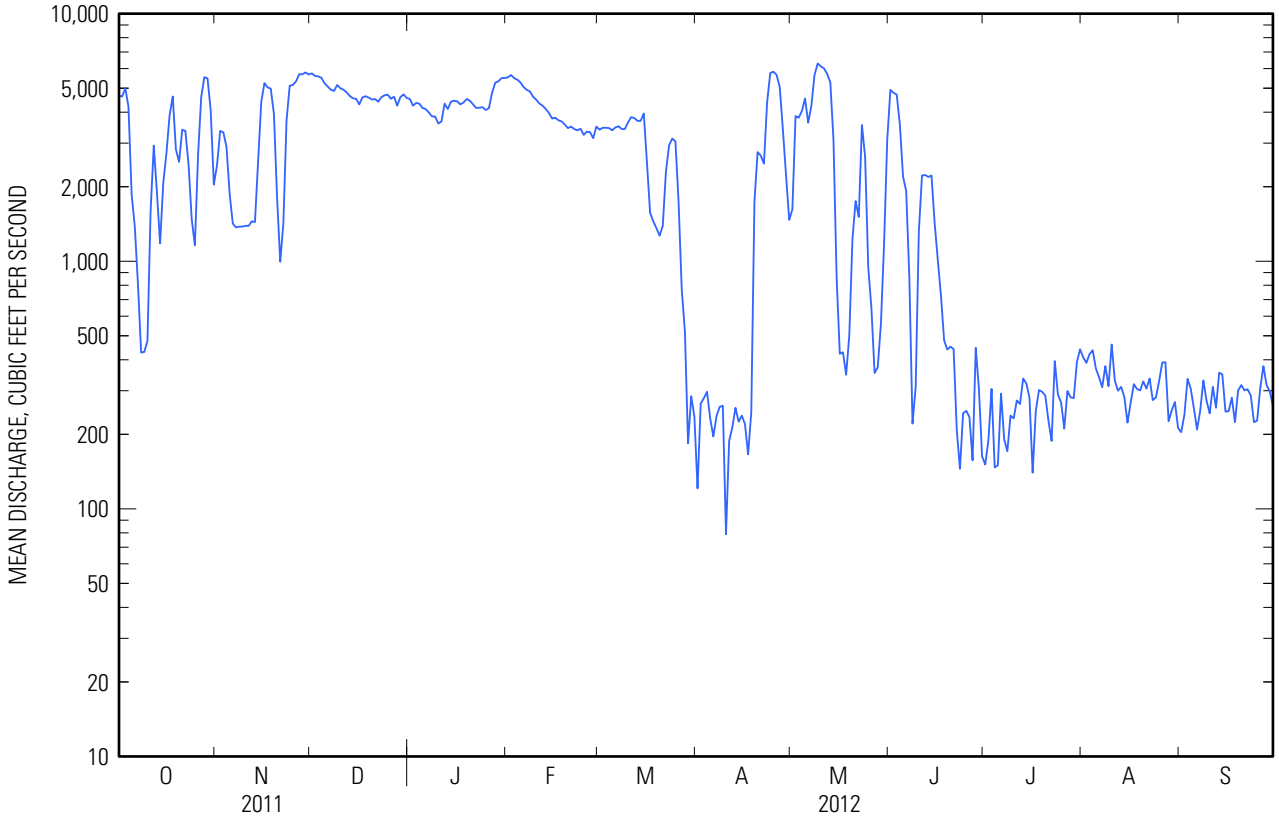
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1997 - 2012	
Annual total	1,368,253		865,980			
Annual mean	3,749		2,366		2,987	
Highest annual mean					4,074	2011
Lowest annual mean					1,839	1999
Highest daily mean	10,600	May 1	6,290	May 9	10,600	May 1, 2011
Lowest daily mean	247	Jun 21	79	Apr 10	-52	Jun 1, 2006
Annual seven-day minimum	361	Jul 7	200	Jun 30	187	Oct 26, 1998
10 percent exceeds	7,540		5,050		5,950	
50 percent exceeds	3,360		2,060		2,850	
90 percent exceeds	446		237		385