Water-Data Report 2009

04247000 ONEIDA RIVER NEAR EUCLID, NY

Oswego Basin
Oneida Subbasin

LOCATION.--Lat 43°12′18″, long 76°13′05″ referenced to North American Datum of 1927, 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 except those for estimated daily discharges, which are poor. 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 telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 9,400 ft^3/s, Mar. 30,2007; minimum daily discharge, -52 ft^3/s, June 1, 2006. Maximum and minimum instantaneous discharges not determined.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 8,380 ft^3/s, Apr. 8; minimum daily discharge, 295 ft^3/s, June 4. Maximum and minimum instantaneous discharges not determined.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	486	6,080	5,100	7,200	3,420	3,750	6,560	759	1,760	1,570	1,630	e1,990
2	456	6,040	6,230	6,820	e3,240	3,640	6,240	3,170	484	2,660	2,850	1,290
3	458	5,840	6,190	6,600	e3,100	3,800	6,500	4,860	437	3,310	4,030	726
4	443	5,640	6,200	6,250	e3,040	3,650	6,570	3,490	295	3,210	e3,360	462
5	502	5,420	6,110	6,060	e2,990	3,560	7,800	2,030	518	2,230	2,110	567
6	432	3,670	6,010	5,880	e2,940	3,500	8,360	1,610	454	1,390	943	534
7	436	2,590	5,420	5,690	e2,880	3,580	8,130	1,700	486	1,040	622	476
8	505	2,580	5,510	5,700	e2,710	4,750	8,380	2,460	523	1,050	577	480
9	419	2,680	5,380	e5,600	2,700	5,400	8,140	3,470	443	978	673	626
10	709	2,710	5,290	e5,400	2,650	5,930	7,910	3,780	336	540	3,730	594
11	852	2,680	5,430	5,360	2,670	6,810	7,480	3,780	585	501	e4,190	590
12	891	2,650	5,390	5,180	3,290	6,960	7,300	3,060	3,440	1,800	2,640	512
13	1,160	2,630	e5,440	4,960	e3,900	7,060	7,010	1,840	6,480	4,360	895	510
14	1,330	2,580	5,370	5,240	4,030	7,050	6,920	1,380	6,260	3,540	485	464
15	e1,770	2,500	5,320	5,180	e4,100	6,910	6,640	1,360	4,440	1,320	595	455
16	e2,670	3,630	5,490	4,950	4,130	6,780	6,170	1,560	1,890	415	634	e500
17	e2,980	5,090	5,800	4,660	4,140	6,750	4,230	4,140	957	525	499	e500
18	2,970	5,440	5,510	4,710	3,980	6,560	2,940	6,140	1,020	532	644	556
19	3,040	5,600	5,800	4,570	3,950	6,670	3,850	6,240	2,950	524	526	564
20	2,970	5,580	5,670	4,350	4,220	6,670	5,790	6,060	5,670	476	614	542
21	2,980	5,370	5,740	4,210	4,000	6,740	5,670	3,760	5,840	577	607	e500
22	2,980	5,160	5,510	4,200	3,720	6,540	5,530	2,210	4,100	531	523	579
23	2,960	5,110	5,660	3,960	3,670	6,380	4,310	1,750	2,250	678	1,690	664
24	e2,940	2,910	5,710	3,570	3,620	6,300	2,980	1,360	932	619	2,730	421
25	e2,970	1,270	5,760	3,530	3,480	6,130	2,530	1,250	624	560	2,090	492
26	e3,170	2,630	5,980	3,420	3,400	5,950	2,540	833	520	792	907	482
27	3,750	3,360	6,110	3,430	3,480	5,770	3,440	565	472	e1,900	e564	509
28	4,880	3,300	6,340	3,490	3,680	5,750	4,880	2,030	469	e1,850	610	592
29	5,880	3,230	6,830	3,550	---	5,820	3,380	3,450	987	e1,550	e664	1,060
30	6,140	3,200	6,690	3,430	---	5,940	1,120	3,490	1,360	e1,610	e655	1,650
31	6,270	---	7,060	3,420	---	6,370	---	3,150	---	1,580	e890	---
Total	70,399	117,170	180,050	150,570	97,130	177,470	169,300	86,737	56,982	44,218	44,177	19,887
Mean	2,271	3,906	5,808	4,857	3,469	5,725	5,643	2,798	1,899	1,426	1,425	663
Max	6,270	6,080	7,060	7,200	4,220	7,060	8,380	6,240	6,480	4,360	4,190	1,990
Min	419	1,270	5,100	3,420	2,650	3,500	1,120	565	295	415	485	421

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,137	3,225	4,569	4,188	3,497	4,482	5,500	2,813	1,831	1,403	1,022	1,218
Max	4,264	6,804	6,283	6,199	4,999	5,725	8,277	5,336	3,122	4,738	2,306	4,271
(WY)	(2007)	(2007)	(2005)	(1998)	(2006)	(2009)	(2007)	(2002)	(2002)	(2006)	(2004)	(2004)
Min	688	1,832	2,578	2,519	2,443	3,264	2,002	1,146	469	549	261	430
(WY)	(1999)	(1999)	(1999)	(2002)	(2000)	(2005)	(2006)	(1999)	(1999)	(2002)	(1999)	(2007)

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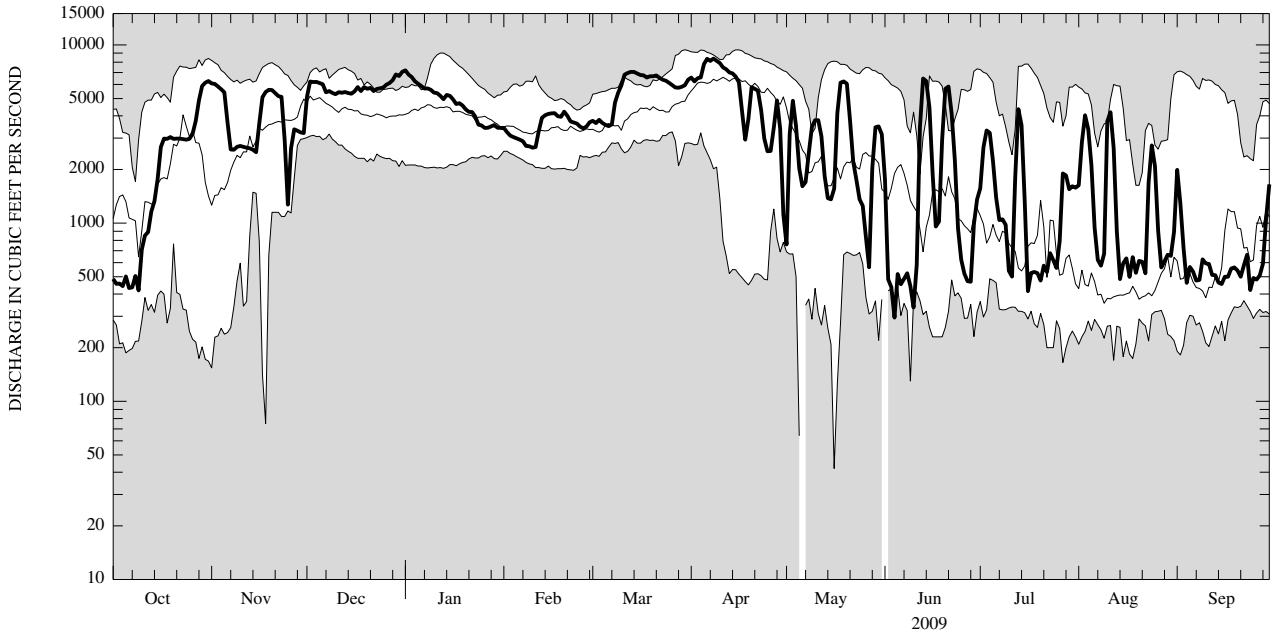
SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1997 - 2009	
Annual total	1,242,590		1,214,090			
Annual mean	3,395		3,326		2,993	
Highest annual mean					3,812	2004
Lowest annual mean					1,839	1999
Highest daily mean	7,460	Apr 14	8,380	Apr 8	9,400	Mar 30, 2007
Lowest daily mean	329	Jul 7	295	Jun 4	-52	Jun 1, 2006
Annual seven-day minimum	404	May 26	436	Jun 4	187	Oct 26, 1998
10 percent exceeds	6,220		6,320		5,960	
50 percent exceeds	3,340		3,290		2,890	
90 percent exceeds	507		511		406	



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.