04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY

Oswego Basin
Oswego Subbasin

LOCATION.--Lat 43°27′06″, long 76°30′20″ referenced to North American Datum of 1927, Oswego County, NY, Hydrologic Unit 04140203, on right bank at New York State Barge Canal (Oswego Canal) Lock 7 in Oswego, 0.8 mi upstream from mouth.

DRAINAGE AREA.--5,100 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1900 to April 1906, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1307. Prior to January 1904, published as "above Minetto" or "near Minetto." January 1904 to April 1906, published as "at Battle Island." Records for April 1897 to September 1900, published in WSP 65 and for October 1927 to September 1928, published in WSP 644, have been found to be unreliable and should not be used.

REVISED RECORDS.--WDR NY 78-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 245.12 ft above NGVD of 1929. Prior to 1933, nonrecording gage at site about 6 mi upstream at different datum.

COOPERATION.--Records of lockages at Lock 7 furnished by New York State Thruway Authority, record of elevations of Lake Ontario by U.S. Army Corps of Engineers, daily discharge records for Oswego River High Dam upstream by Niagara Mohawk Power Corp.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Prior to 1933 and subsequent to 1972, flow in Oswego (Barge) Canal not included. A large amount of natural storage and some artificial regulation is afforded by the many large lakes and the Erie (Barge) and Oswego (Barge) Canal systems in the river basin.Large diurnal fluctuations at low and medium flow caused by powerplants upstream from station. Oswego River basin receives water from Erie (Barge) Canal through Lock 32 near Pittsford. Water may be diverted into or received from Mohawk River basin through Erie (Barge) Canal between New London and Utica. During part of year, entire flow from 45.5 mi^2 of Mud Creek drainage area may be diverted from Chemung River basin into Keuka Lake in Oswego River basin. Nearly all of the flow from 14 mi^2 of the 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 discharge, 37,500 ft^3/s, Mar 28, 1936, includes daily mean discharge of canals; maximum gage height, 13.46 ft, Apr 10, 1940; minimum discharge (river only), 30 ft^3/s, Nov 6, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,800 ft^3/s, Jul 13, gage height, 9.58 ft; minimum discharge, 273 ft^3/s, May 13, gage height, 1.59 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4,580	11,700	19,200	12,800	17,100	8,990	5,290	2,330	3,460	14,900	12,200	7,980
2	3,660	11,500	18,600	12,100	16,700	7,580	5,280	3,370	3,780	13,800	10,800	9,110
3	3,520	10,400	18,000	12,800	17,200	6,880	6,860	2,120	5,790	13,900	11,300	8,230
4	3,530	8,570	17,000	13,400	17,900	6,680	6,770	2,670	7,610	12,500	11,200	7,670
5	4,010	7,450	16,000	14,300	18,400	6,000	6,350	e707	8,200	12,000	9,860	6,410
6	2,790	7,210	15,200	14,700	17,600	6,090	5,410	e626	8,500	10,300	8,030	6,140
7	2,630	7,530	14,000	14,100	17,300	6,170	5,520	2,800	8,480	8,580	5,840	5,670
8	4,780	7,260	13,300	13,300	17,100	6,060	4,660	2,520	8,230	6,130	5,360	5,330
9	5,260	7,450	13,000	12,700	16,100	6,140	4,760	4,440	7,600	5,970	3,460	5,590
10	6,510	9,750	12,700	12,400	15,700	7,580	3,770	4,740	8,010	5,190	3,490	5,140
11	6,530	12,000	12,700	12,200	15,400	10,400	2,510	4,720	7,690	5,090	2,770	5,610
12	6,990	12,700	12,500	13,200	14,900	10,100	2,650	5,260	7,880	7,790	e1,730	5,550
13	8,240	12,300	12,000	13,100	14,800	10,400	2,350	2,360	7,290	20,200	e1,130	5,340
14	9,620	11,600	11,900	15,400	14,400	12,600	1,410	3,340	7,480	19,900	e1,460	5,120
15	9,860	11,900	11,400	16,800	13,700	13,100	1,920	2,810	7,320	19,500	e1,570	5,850
16	9,460	14,200	12,000	15,900	14,400	13,500	3,330	2,520	6,280	19,200	e2,060	6,540
17	9,760	14,700	12,200	16,200	14,900	13,900	2,440	2,470	4,860	17,600	e1,880	7,660
18	9,510	15,600	11,300	16,800	14,200	12,700	1,780	2,500	4,350	15,900	e1,240	7,140
19	8,510	14,800	11,100	17,000	14,200	12,100	1,930	2,520	4,260	14,100	e592	6,240
20	8,450	13,000	11,600	17,000	13,700	11,900	1,240	1,940	4,230	11,800	e1,620	5,240
21	7,460	13,300	10,800	16,700	13,100	10,900	2,770	3,050	4,570	11,400	2,470	6,070
22	6,490	12,500	10,300	16,300	13,000	9,930	3,690	4,030	5,320	10,600	1,870	6,130
23	8,040	11,900	11,000	15,700	12,800	9,640	6,200	4,780	4,750	9,130	e1,520	6,000
24	8,200	12,200	10,700	15,000	12,800	7,690	7,700	3,270	3,540	9,030	e626	6,520
25	8,670	12,000	11,000	14,800	12,200	6,780	9,160	3,480	4,000	7,640	1,240	6,380
26	13,300	11,700	13,100	15,100	11,500	7,540	9,350	4,410	4,440	7,120	1,110	6,480
27	14,600	11,200	13,700	14,900	9,520	7,570	7,430	4,280	5,630	6,520	1,460	6,810
28	14,600	11,500	13,100	14,700	9,420	7,330	6,590	3,920	10,000	7,090	1,600	6,300
29	13,600	12,000	12,900	14,600	---	6,420	5,190	3,470	13,000	9,440	2,020	8,510
30	12,700	18,100	13,200	17,200	---	6,250	2,680	1,830	15,000	12,100	4,710	8,980
31	12,200	---	13,200	17,200	---	6,050	---	4,070	---	13,000	6,270	---
Total	248,060	348,020	408,700	458,400	410,040	274,970	136,990	97,353	201,550	357,420	122,488	195,740
Mean	8,002	11,600	13,180	14,790	14,640	8,870	4,566	3,140	6,718	11,530	3,951	6,525
Max	14,600	18,100	19,200	17,200	18,400	13,900	9,350	5,260	15,000	20,200	12,200	9,110
Min	2,630	7,210	10,300	12,100	9,420	6,000	1,240	626	3,460	5,090	592	5,120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3,881	6,237	8,630	8,071	7,956	11,560	13,100	8,203	5,128	3,501	2,544	2,830
Max	17,950	16,070	17,920	16,970	15,130	21,720	30,250	20,350	17,000	19,660	8,951	12,360
(WY)	(1978)	(1978)	(1978)	(1998)	(1976)	(1979)	(1993)	(1943)	(1947)	(1972)	(1992)	(2004)
Min	1,173	1,167	2,917	2,610	2,547	3,914	2,757	1,993	1,383	1,113	836	760
(WY)	(1940)	(1965)	(1940)	(1963)	(1963)	(1983)	(1995)	(1995)	(1995)	(1995)	(1934)	(1995)

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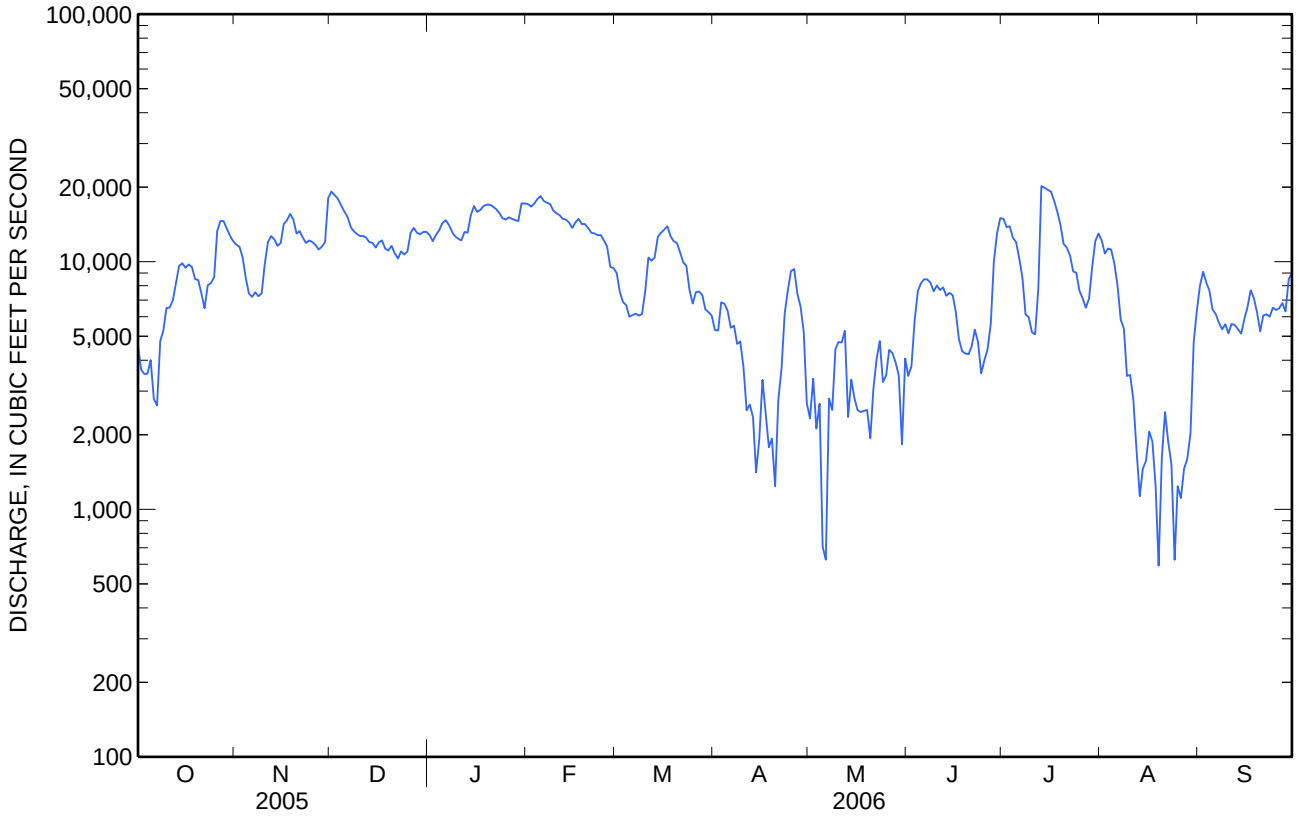
SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1934 - 2006	
Annual total	3,105,369		3,259,731			
Annual mean	8,508		8,931		6,834	
Highest annual mean					11,030	1976
Lowest annual mean					3,433	1965
Highest daily mean	26,200	Apr 5	20,200	Jul 13	37,000	Mar 28, 1936
Lowest daily mean	685	Aug 20	592	Aug 19	261	Sep 18, 1985
Annual seven-day minimum	1,010	Aug 15	1,350	Aug 22	697	Sep 4, 1995
10 percent exceeds	15,900		15,300		14,500	
50 percent exceeds	9,380		8,230		5,290	
90 percent exceeds	1,240		2,520		1,600