

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY

LOCATION.--Lat 43°27'06", long 76°30'20", Oswego County, 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 mi².

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.

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 mi² 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 mi² of the Tioughnioga River basin may be diverted into De Ruyter Reservoir, in Oswego River basin. Telephone and satellite gage-height telemeters at station.

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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,500 ft³/s, Mar. 28, 1936, includes daily mean discharge of canals; maximum gage height, 13.46 ft, Apr. 10, 1940; minimum discharge (river only), 30 ft³/s, Nov. 6, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,200 ft³/s, May 24, gage height, 9.43 ft; minimum discharge, 626 ft³/s, Nov. 13.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,450	10,100	14,200	18,000	7,070	5,520	16,100	11,600	16,300	e1,460	13,200	14,300
2	5,940	9,990	14,700	17,500	6,950	5,420	16,400	9,740	15,900	e1,880	12,400	15,800
3	5,860	10,000	14,300	17,500	6,610	8,880	16,400	11,100	15,400	e1,920	11,400	14,900
4	5,460	10,200	13,700	17,300	e5,700	12,400	16,800	10,700	14,800	e1,880	10,800	14,500
5	5,600	10,400	13,300	16,900	7,140	14,600	16,900	11,300	14,500	e1,780	9,270	13,800
6	5,060	9,890	12,800	16,400	7,040	18,200	17,100	11,000	14,100	e1,780	5,620	12,900
7	4,100	9,720	12,200	15,600	7,100	18,900	16,600	11,600	12,200	e1,680	4,250	12,200
8	3,280	9,210	11,500	14,900	7,160	18,000	16,000	11,000	10,200	e2,190	4,130	11,700
9	3,390	9,210	11,200	14,000	6,160	16,700	15,300	11,100	6,290	e2,660	5,050	15,500
10	2,700	7,740	11,300	13,700	5,870	15,800	13,600	11,500	6,090	e3,840	4,620	15,900
11	2,460	4,250	12,400	e14,000	6,630	14,500	12,700	11,300	6,180	e3,880	4,000	16,600
12	2,640	4,330	14,200	e14,400	6,960	14,100	11,300	11,300	e4,680	4,020	e3,020	17,000
13	2,000	4,620	14,700	14,300	6,680	13,100	11,100	10,600	5,100	4,790	e3,190	16,800
14	1,900	7,180	14,700	e13,000	6,220	12,500	15,900	11,200	5,220	5,330	5,510	16,600
15	3,160	8,580	14,400	e11,800	6,450	11,500	16,000	11,100	e5,240	7,240	4,960	15,500
16	4,580	9,660	14,100	e11,200	7,000	11,000	16,900	10,800	e4,900	8,170	4,430	14,100
17	2,390	9,960	13,100	e11,000	6,020	11,200	16,900	11,000	e3,960	8,580	e2,680	12,800
18	4,100	10,200	13,900	11,200	5,470	10,600	16,800	10,900	e3,170	7,460	e2,470	12,600
19	3,520	10,400	13,900	11,400	4,680	10,200	16,700	11,000	e3,040	6,660	e2,330	12,400
20	4,210	11,900	13,800	e11,500	4,710	10,500	16,100	11,100	e3,210	7,700	e2,580	11,900
21	5,170	13,400	14,100	e11,300	4,720	10,700	16,100	10,100	e3,550	7,720	4,720	10,900
22	5,450	13,700	13,600	e11,000	4,830	10,900	16,000	9,850	e3,140	7,390	6,180	9,560
23	5,520	13,700	13,600	e10,600	4,870	10,800	15,300	9,260	e2,600	6,080	7,180	8,490
24	4,850	13,700	14,100	e10,100	4,870	10,700	14,900	16,300	e2,730	5,680	5,900	8,180
25	5,000	13,500	17,000	e9,600	4,880	11,200	15,000	18,800	e1,760	4,440	7,150	8,000
26	4,650	13,200	17,800	e9,600	4,830	12,300	15,400	19,300	e2,270	4,090	5,600	8,050
27	7,340	12,900	17,900	9,580	5,430	17,800	13,700	18,700	e2,640	6,570	5,210	7,570
28	7,550	12,700	18,000	9,440	5,420	18,400	13,100	18,600	e2,430	13,300	3,760	7,650
29	8,690	13,000	17,600	9,550	5,310	17,600	12,500	18,500	e2,120	14,900	4,620	7,560
30	10,400	13,900	17,900	9,380	---	17,300	12,000	17,600	e1,810	14,600	8,800	7,130
31	10,600	---	18,500	8,800	---	16,900	---	16,700	---	13,800	13,800	---
TOTAL	154,020	311,240	448,500	394,550	172,780	408,220	455,600	394,650	195,530	183,470	188,830	370,890
MEAN	4,968	10,370	14,470	12,730	5,958	13,170	15,190	12,730	6,518	5,918	6,091	12,360
MAX	10,600	13,900	18,500	18,000	7,160	18,900	17,100	19,300	16,300	14,900	13,800	17,000
MIN	1,900	4,250	11,200	8,800	4,680	5,420	11,100	9,260	1,760	1,460	2,330	7,130

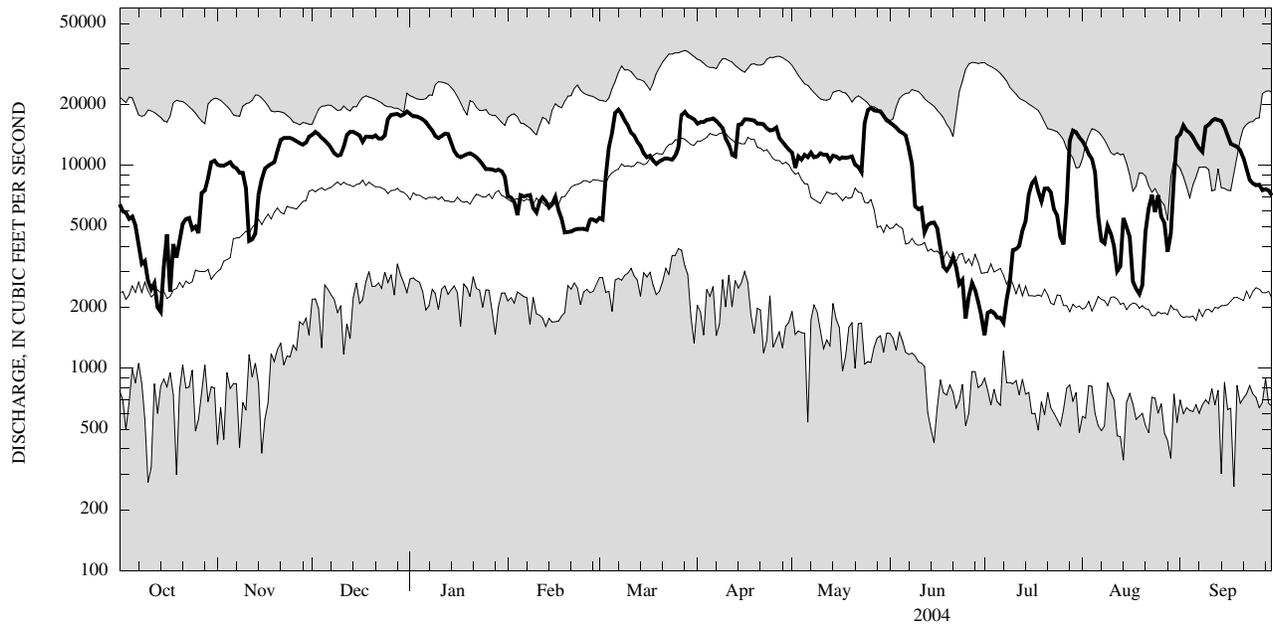
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2004, BY WATER YEAR (WY)

MEAN	3,820	6,143	8,493	7,912	7,810	11,610	13,140	8,304	5,131	3,402	2,541	2,781
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)

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1934 - 2004	
ANNUAL TOTAL	3,005,593		3,678,280		6,789	
ANNUAL MEAN	8,235		10,050		11,030	
HIGHEST ANNUAL MEAN					3,433	
LOWEST ANNUAL MEAN					37,000	
HIGHEST DAILY MEAN	23,500	Apr 7	19,300	May 26	1976	1965
LOWEST DAILY MEAN	904	Sep 12	1,460	Jul 1	1936	1985
ANNUAL SEVEN-DAY MINIMUM	1,170	Sep 8	1,770	Jul 1	1995	1995
10 PERCENT EXCEEDS	15,800		16,700		14,400	
50 PERCENT EXCEEDS	7,610		10,600		5,220	
90 PERCENT EXCEEDS	1,830		3,480		1,600	

e Estimated



2004 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.