

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY

Oswego Watershed

LOCATION.--Lat 43°27'06", long 76°30'20" referenced to North American Datum of 1927, 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.--5100 mi².

WATER-DISCHARGE 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 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.

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, 26,600 ft³/s, Apr 5, gage height, 10.80 ft; minimum discharge, 315 ft³/s, Aug 10, gage height, 1.66 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6,510	2,840	13,300	11,600	10,100	11,700	16,600	15,900	e2,100	e1,340	1,410	8,810
2	5,960	1,810	14,200	12,600	10,000	11,800	17,900	15,900	e1,480	e1,240	1,400	8,700
3	4,610	2,970	15,700	11,900	9,490	11,600	23,600	15,600	e1,500	e1,020	1,410	6,800
4	5,970	3,970	15,500	12,900	9,000	11,400	25,900	14,500	e1,540	e1,520	1,540	6,090
5	5,550	6,070	14,300	12,800	9,670	11,200	26,200	12,700	e2,800	e1,220	e1,200	5,720
6	4,710	7,920	13,600	13,000	9,820	11,200	26,100	8,550	e2,400	e1,840	e810	2,440
7	4,800	8,650	14,100	12,900	9,710	10,500	25,900	7,810	e1,660	e1,620	e740	1,200
8	4,790	8,400	13,900	13,000	9,830	10,800	25,300	8,110	e1,980	e1,700	e780	1,110
9	3,250	8,980	13,300	13,000	10,700	11,900	24,700	7,840	e2,140	3,270	1,640	1,060
10	3,330	10,800	14,600	12,700	11,100	12,200	23,800	6,680	e1,520	3,090	1,590	1,060
11	3,610	10,100	17,100	12,100	11,800	11,900	22,100	5,650	e1,920	2,110	999	1,130
12	3,550	9,840	17,300	12,100	12,000	11,600	21,000	e3,060	e1,840	2,270	1,650	966
13	3,080	9,690	17,500	13,000	12,200	11,500	19,500	e2,140	e1,900	2,880	1,400	1,210
14	2,300	9,750	17,100	16,500	12,000	11,000	17,900	e3,520	e2,820	2,950	1,220	1,120
15	1,990	9,440	16,400	17,200	12,400	10,300	17,300	e3,900	3,740	4,170	785	1,390
16	1,800	6,860	15,800	16,900	14,100	9,610	16,500	e3,040	4,290	5,140	872	1,460
17	1,850	5,680	14,500	16,400	14,900	9,100	15,100	4,770	6,550	5,450	997	1,390
18	2,220	5,870	14,200	14,900	14,700	8,020	14,400	4,990	6,400	6,240	1,720	1,220
19	4,170	5,720	13,700	13,800	14,700	7,620	13,700	4,510	6,900	7,280	1,250	1,340
20	3,680	7,530	12,800	13,300	14,000	7,010	11,400	e3,540	7,930	6,020	685	1,260
21	6,070	7,340	11,600	12,200	13,100	6,050	11,200	e3,260	7,280	2,460	795	1,310
22	7,060	6,800	12,300	11,500	12,400	6,550	11,500	e3,980	6,790	e1,180	1,680	1,330
23	6,600	7,180	12,800	10,000	12,000	8,070	12,900	e3,700	4,680	e1,240	1,220	1,290
24	6,910	7,160	12,500	10,600	11,700	10,100	16,700	e3,060	3,120	e1,480	1,280	1,080
25	5,890	8,690	12,300	10,800	11,900	9,380	19,000	e3,820	3,420	e1,160	974	1,150
26	3,390	8,610	12,200	11,400	11,900	9,600	19,100	3,910	2,990	e1,160	1,060	2,310
27	3,330	7,550	11,600	10,800	11,900	9,820	18,500	e3,380	e2,680	e1,180	1,260	2,470
28	3,080	7,850	11,900	11,300	11,800	11,800	17,200	e3,260	e2,200	2,100	905	2,690
29	3,030	10,400	11,200	11,000	---	14,500	16,300	e2,460	e2,280	e1,070	831	3,440
30	1,440	11,900	10,800	10,700	---	16,000	16,000	e1,980	e1,300	1,560	1,050	4,390
31	840	---	11,200	10,300	---	16,400	---	e2,320	---	1,720	6,180	---
Total	125,370	226,370	429,300	393,200	328,920	330,230	563,300	187,840	100,150	78,680	41,333	76,936
Mean	4,044	7,546	13,850	12,680	11,750	10,650	18,780	6,059	3,338	2,538	1,333	2,565
Max	7,060	11,900	17,500	17,200	14,900	16,400	26,200	15,900	7,930	7,280	6,180	8,810
Min	840	1,810	10,800	10,000	9,000	6,050	11,200	1,980	1,300	1,020	685	966

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3,823	6,162	8,567	7,978	7,864	11,600	13,220	8,273	5,106	3,390	2,524	2,778
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 2004		Water Year 2005		Water Years 1934 - 2005	
Annual total	3,545,560		2,881,629			
Annual mean	9,687		7,895		6,805	
Highest annual mean					11,030	1976
Lowest annual mean					3,433	1965
Highest daily mean	19,300	May 26	26,200	Apr 5	37,000	Mar 28, 1936
Lowest daily mean	840	Oct 31	685	Aug 20	261	Sep 18, 1985
Annual seven-day minimum	1,770	Jul 1	1,010	Aug 15	697	Sep 4, 1995
10 percent exceeds	16,600		15,800		14,400	
50 percent exceeds	9,980		7,060		5,240	
90 percent exceeds	3,120		1,230		1,600	

