

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 mi².

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 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, 27,200 ft³/s, Mar. 28, gage height, 10.97 ft; minimum discharge, 303 ft³/s, Aug. 30, gage height, 1.64 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9,230	19,600	15,900	13,500	11,900	7,210	23,100	20,200	e2,490	e770	2,030	708
2	9,130	18,000	17,900	13,000	10,900	7,560	22,700	19,700	2,870	e774	844	777
3	7,920	17,000	18,100	12,400	10,600	7,350	22,300	18,500	3,410	e1,160	1,300	693
4	6,520	16,000	17,500	12,100	8,900	7,590	22,100	18,200	3,920	1,600	863	946
5	6,740	15,000	17,500	12,300	8,070	7,880	21,800	17,800	3,830	e931	1,090	1,060
6	6,430	14,400	16,800	14,600	9,330	6,890	21,000	16,900	3,390	1,360	1,140	1,220
7	6,170	13,400	15,500	15,600	8,770	8,000	21,000	14,900	3,680	e1,160	834	1,020
8	3,950	13,400	14,400	17,500	8,520	6,810	20,700	10,600	2,880	e764	1,370	825
9	4,700	13,300	13,600	17,700	8,430	6,740	20,100	8,400	e2,450	e950	1,210	562
10	4,800	12,900	13,200	16,900	8,520	7,260	19,800	7,060	e2,370	e1,200	1,200	1,010
11	4,590	12,500	13,100	16,400	8,580	6,630	19,400	5,200	3,110	1,440	1,080	1,590
12	5,160	13,800	13,200	15,700	8,830	6,980	19,500	2,370	3,580	e1,160	743	1,320
13	5,100	14,200	13,500	16,100	8,690	8,630	18,000	5,010	e2,490	1,620	1,650	932
14	5,380	14,500	13,100	16,100	7,550	12,300	16,100	3,560	e1,880	e866	714	952
15	4,990	15,200	12,500	16,600	5,840	20,300	15,700	4,280	e890	e1,170	1,210	971
16	3,530	15,900	12,100	18,000	4,990	22,200	16,800	4,540	e1,460	1,410	1,200	1,180
17	3,860	18,300	11,900	17,700	7,120	22,100	19,500	5,800	e1,700	1,380	1,150	1,660
18	4,720	19,000	10,500	17,400	6,580	21,300	21,200	5,880	e1,150	2,270	839	1,180
19	7,210	19,200	11,500	16,600	6,130	20,800	22,100	5,140	e1,420	2,410	1,010	814
20	15,200	19,200	11,300	e15,800	6,810	19,900	22,500	5,180	4,390	2,600	1,170	976
21	17,700	18,900	11,300	e15,500	7,180	18,500	22,600	4,690	3,310	2,750	1,170	911
22	18,100	17,900	11,300	e14,500	7,980	17,900	22,600	4,190	e1,250	3,170	1,040	1,050
23	18,700	16,700	12,600	13,700	6,920	19,600	22,200	3,370	2,640	2,780	1,120	882
24	18,600	15,200	12,500	13,600	7,080	20,400	21,600	e2,210	e2,040	2,420	1,090	932
25	18,400	15,600	12,400	13,100	7,750	20,900	21,200	3,550	e1,750	2,720	1,340	1,030
26	17,800	14,900	15,000	13,000	7,360	22,100	20,500	3,440	e1,130	2,210	844	1,000
27	16,900	14,700	15,400	11,900	7,580	26,200	20,600	3,630	e1,200	2,100	1,240	1,580
28	18,400	14,400	14,900	12,200	7,610	26,500	20,400	3,750	e976	3,030	1,190	1,540
29	19,700	13,900	14,600	11,800	---	25,800	20,400	3,630	e784	2,540	1,090	1,180
30	19,900	12,600	14,700	10,700	---	25,100	20,500	e2,750	e909	2,590	948	1,700
31	20,300	---	13,900	11,000	---	24,200	---	e2,910	---	2,330	868	---
Total	329,830	469,600	431,700	453,000	224,520	481,630	618,000	237,340	69,349	55,635	34,587	32,201
Mean	10,640	15,650	13,930	14,610	8,019	15,540	20,600	7,656	2,312	1,795	1,116	1,073
Max	20,300	19,600	18,100	18,000	11,900	26,500	23,100	20,200	4,390	3,170	2,030	1,700
Min	3,530	12,500	10,500	10,700	4,990	6,630	15,700	2,210	784	764	714	562

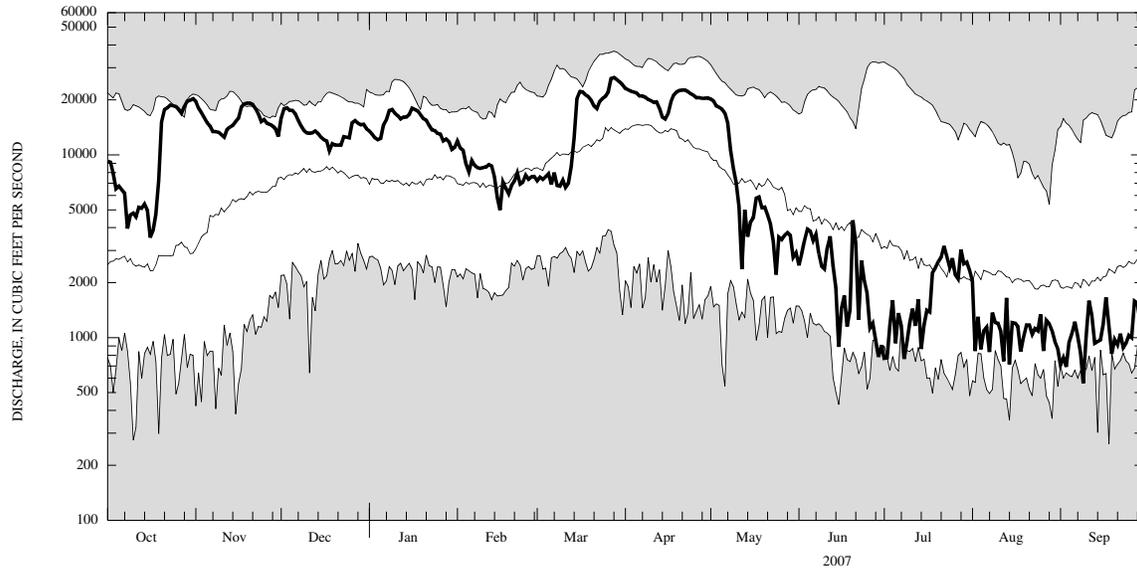
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3,974	6,364	8,702	8,160	7,957	11,620	13,200	8,195	5,090	3,478	2,525	2,806
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 2006		Water Year 2007		Water Years 1934 - 2007	
Annual total	3,486,081		3,437,392			
Annual mean	9,551		9,418		6,870	
Highest annual mean					11,030	1976
Lowest annual mean					3,433	1965
Highest daily mean	20,300	Oct 31	26,500	Mar 28	37,000	Mar 28, 1936
Lowest daily mean	592	Aug 19	562	Sep 9	261	Sep 18, 1985
Annual seven-day minimum	1,350	Aug 22	857	Aug 30	697	Sep 4, 1995
10 percent exceeds	17,000		20,100		14,600	
50 percent exceeds	8,510		7,610		5,310	
90 percent exceeds	2,520		1,020		1,590	



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.