

**04237500 SENECA RIVER AT BALDWINVILLE, NY**

Oswego Basin  
Seneca Subbasin

LOCATION.--Lat 43°09'25", long 76°19'55" referenced to North American Datum of 1927, Onondaga County, NY, Hydrologic Unit 04140201, on left bank 200 ft downstream from bridge on State Highways 31 and 48 in Baldwinsville, and 400 ft downstream from navigation dam at Lock 24 of New York State Erie (Barge) Canal.

DRAINAGE AREA.--3,138 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--November 1949 to current year. November 1898 to December 1908, prior to construction of Erie (Barge) Canal, not equivalent to later records at same site because of extensive development of Erie (Barge) Canal system. January 1909 to September 1925 (gage heights only) in reports of State Engineer and Surveyor.

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

GAGE.--Water-stage recorder. Datum of gage is 361.38 ft above NGVD of 1929 (362.60 ft Erie (Barge) Canal Datum). Prior to Dec. 31, 1908, nonrecording gage at same site at different datum. Auxiliary water-stage recorder 1,500 ft downstream from base gage at same datum.

COOPERATION.--Records of lockages at Lock 24 furnished by New York State Thruway Authority, Office of Canals.

REMARKS.--No estimated daily discharges. Records good except those below 500 ft<sup>3</sup>/s, which are fair. Discharge from 1898 to 1908 determined on basis of head on dam, flow through 10 mills nearby, lockages at Oswego Canal lock, estimated leakage of dam, wheel gates, flumes, and penstocks; not adjusted for inflow from Lake Erie through Erie (Barge) Canal. Discharge, from November 1949 to September 1996, computed by using fall as determined by auxiliary water-stage recorder. Records from October 1996 to current, computed by using standard stage-discharge methods. Published discharge represents the total flow at Baldwinsville and includes flow in Erie (Barge) Canal. A large amount of natural storage and some artificial regulation is afforded by many large lakes and the Erie (Barge) Canal system in the river basin. Large diurnal fluctuations at low and medium flows caused by powerplants upstream from station. Seneca River basin receives water from Erie (Barge) Canal through Lock 32 near Pittsford. During part of year, entire flow from 45.5 mi<sup>2</sup> of Mud Creek drainage area may be diverted from Chemung River basin into Keuka Lake in Oswego River basin. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 18,100 ft<sup>3</sup>/s, Apr. 27, 1993, maximum gage height, 9.63 ft, Apr. 26, 27, 1993; minimum daily discharge, 34 ft<sup>3</sup>/s, Sept. 17, 1985, result of extreme regulation. Maximum and minimum instantaneous discharges not determined.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum daily discharge, 22,100 ft<sup>3</sup>/s on Mar. 25, 1936, provided by New York State Department of Transportation.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 13,800 ft<sup>3</sup>/s, Apr. 29; minimum daily discharge 355 ft<sup>3</sup>/s, Sept. 1. Maximum and minimum instantaneous discharges not determined.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6,300	3,020	6,210	3,530	1,120	6,870	9,650	13,000	7,130	2,240	967	355
2	7,200	2,060	8,450	5,020	1,090	7,750	9,570	12,400	7,280	2,410	731	1,190
3	7,580	959	9,320	6,240	1,060	7,960	9,340	12,200	7,170	2,340	539	1,910
4	7,470	993	9,570	6,090	1,030	7,760	9,330	12,800	5,920	1,390	572	3,090
5	6,970	1,410	9,350	5,510	1,020	7,510	9,840	12,900	3,320	1,180	728	3,370
6	6,860	1,730	8,700	4,780	1,070	9,030	10,100	12,700	2,990	1,140	746	3,620
7	6,970	1,660	8,080	4,230	1,070	10,100	10,100	12,300	2,990	1,080	785	4,240
8	7,020	1,620	7,680	4,240	1,060	10,200	9,870	11,800	3,000	1,100	1,160	5,890
9	6,900	2,260	7,640	4,140	1,030	10,200	9,540	11,400	2,830	1,140	789	6,480
10	6,490	2,500	7,680	3,570	1,010	10,100	9,100	11,100	3,250	1,150	1,500	6,840
11	5,970	3,200	7,710	2,840	1,050	11,000	8,920	11,000	3,980	1,080	1,710	5,920
12	3,530	3,880	7,700	2,410	1,790	11,700	8,860	11,000	3,560	1,040	1,560	5,030
13	2,500	4,130	8,100	2,470	2,220	11,900	9,160	11,100	2,890	1,040	1,810	4,770
14	2,180	4,200	8,250	2,330	3,090	11,900	9,360	11,200	2,320	1,030	2,050	4,710
15	2,830	4,390	8,020	1,990	3,660	11,600	9,440	11,400	1,590	978	1,830	4,730
16	2,410	4,530	7,770	1,840	3,970	11,300	9,580	11,700	1,160	949	2,160	4,670
17	1,850	4,030	7,590	1,700	4,130	11,200	9,870	11,700	1,230	933	2,630	2,900
18	2,170	4,290	7,480	1,620	4,470	11,300	9,930	11,300	1,550	991	2,510	1,650
19	2,810	4,540	7,320	1,580	5,830	11,300	9,860	11,200	1,450	863	2,390	1,360
20	2,590	5,560	7,200	1,310	7,000	11,200	10,300	11,100	1,160	703	1,860	2,240
21	2,980	5,700	7,070	1,420	7,470	11,200	10,600	11,000	1,160	664	1,450	2,980
22	3,150	5,560	6,840	1,040	7,620	11,100	10,400	11,000	1,410	655	1,320	1,930
23	2,270	6,030	4,930	1,080	6,870	11,000	10,600	10,900	2,160	570	1,440	1,150
24	2,220	6,310	3,680	1,130	6,040	10,900	10,700	9,850	3,040	543	1,360	1,220
25	2,620	5,830	3,460	1,110	5,750	10,800	10,500	8,110	3,220	503	1,190	2,270
26	3,730	5,560	3,250	1,070	5,830	10,700	10,900	7,350	3,290	1,010	1,490	2,700
27	4,760	4,280	3,460	1,070	5,790	10,600	12,100	7,000	3,480	1,120	1,770	2,670
28	5,120	3,540	4,220	1,100	6,030	10,400	13,400	6,810	3,410	773	1,620	2,870
29	5,420	3,600	4,410	1,210	---	10,300	13,800	6,710	3,110	359	1,730	3,490
30	5,560	4,560	3,720	1,220	---	10,000	13,500	6,490	2,690	639	1,340	3,990
31	4,160	---	3,300	1,190	---	9,800	---	6,510	---	894	557	---
<b>Total</b>	140,590	111,932	208,160	80,080	99,170	318,680	308,220	327,030	93,740	32,507	44,294	100,235
<b>Mean</b>	4,535	3,731	6,715	2,583	3,542	10,280	10,270	10,550	3,125	1,049	1,429	3,341
<b>Max</b>	7,580	6,310	9,570	6,240	7,620	11,900	13,800	13,000	7,280	2,410	2,630	6,840
<b>Min</b>	1,850	959	3,250	1,040	1,010	6,870	8,860	6,490	1,160	359	539	355

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2011, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	2,199	3,409	4,552	4,173	4,088	5,941	6,021	4,061	2,721	1,990	1,537	1,561
<b>Max</b>	11,020	9,491	10,330	8,807	8,342	11,650	15,610	10,550	6,456	12,100	6,214	7,523
<b>(WY)</b>	(1978)	(1978)	(1978)	(1978)	(2006)	(1956)	(1993)	(2011)	(1972)	(1972)	(1992)	(2004)
<b>Min</b>	572	675	778	805	965	1,606	1,317	719	592	621	576	421
<b>(WY)</b>	(1986)	(1958)	(1961)	(1954)	(1980)	(1965)	(1981)	(1995)	(1995)	(1985)	(2001)	(1995)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1950 - 2011	
<b>Annual total</b>	1,214,221		1,864,638			
<b>Annual mean</b>	3,327		5,109		3,516	
<b>Highest annual mean</b>					5,998 1978	
<b>Lowest annual mean</b>					1,357 1965	
<b>Highest daily mean</b>	9,570	Dec 4	13,800	Apr 29	18,100	Apr 27, 1993
<b>Lowest daily mean</b>	407	Aug 21	355	Sep 1	34	Sep 17, 1985
<b>Annual seven-day minimum</b>	528	Aug 11	643	Jul 19	283	Sep 23, 1988
<b>10 percent exceeds</b>	7,380		11,000		7,800	
<b>50 percent exceeds</b>	2,610		4,030		2,450	
<b>90 percent exceeds</b>	957		1,050		839	

