

**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 for discharges below 500 ft<sup>3</sup>/sec, 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, Sep 17, 1985, result of extreme regulation. Maximum and minimum instantaneous discharges not determined.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 11,400 ft<sup>3</sup>/s, Jul 14, 15; minimum daily discharge, 70 ft<sup>3</sup>/s, Aug 25. Maximum and minimum instantaneous discharges not determined.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	985	5,750	9,160	6,210	9,060	4,010	857	1,390	2,960	8,510	6,970	5,420
2	723	5,690	9,290	6,120	8,920	2,670	1,350	1,470	3,120	8,070	6,690	6,140
3	961	5,470	9,070	6,510	9,030	2,080	1,630	1,410	3,700	7,270	5,870	6,140
4	1,200	5,280	8,570	7,020	9,160	1,990	1,670	908	5,040	6,600	4,770	6,100
5	1,170	5,180	7,830	7,300	9,320	1,980	1,670	697	5,570	6,280	4,100	5,890
6	1,020	5,140	6,900	7,400	9,480	1,980	1,530	1,000	5,760	5,640	4,000	5,490
7	1,050	5,070	6,220	7,040	9,320	1,950	1,470	954	5,600	3,860	3,610	5,180
8	1,530	4,940	5,920	6,680	9,050	1,920	1,480	1,240	5,390	3,230	3,270	5,230
9	2,020	5,010	5,740	6,370	8,870	1,930	1,110	1,220	5,370	3,300	2,960	4,810
10	963	5,540	5,560	6,330	8,830	3,080	785	1,040	5,560	3,210	2,790	5,100
11	855	5,770	5,620	6,410	8,820	4,040	1,160	993	5,550	3,280	1,960	5,090
12	1,450	5,740	5,640	6,560	8,840	4,020	1,220	1,080	5,430	6,030	895	4,770
13	1,820	5,560	5,670	6,560	8,820	4,060	803	1,400	5,320	11,100	630	3,640
14	2,620	5,290	5,790	7,620	8,800	5,330	732	1,720	5,250	11,400	753	4,470
15	2,990	5,170	5,800	8,840	8,750	6,650	1,400	1,710	4,990	11,400	1,250	5,110
16	3,120	5,480	6,010	9,040	8,870	7,290	1,450	1,600	3,890	11,200	1,330	5,470
17	3,020	6,160	5,880	9,050	8,880	7,090	1,320	1,510	3,120	10,600	892	5,380
18	2,800	6,190	5,810	8,970	8,940	6,700	1,010	1,350	2,940	9,550	254	4,760
19	2,560	5,770	6,010	9,070	8,750	6,180	825	1,050	2,510	8,480	386	3,780
20	2,340	5,650	5,870	9,010	8,500	5,710	913	1,060	2,640	7,820	1,330	3,850
21	2,380	5,420	5,690	8,920	8,350	4,980	1,130	1,420	2,940	6,930	1,460	4,170
22	2,870	5,170	5,680	8,720	8,180	3,970	1,580	1,630	3,180	5,460	1,020	4,220
23	3,100	5,350	5,680	8,610	8,020	2,870	2,460	1,340	2,920	5,190	765	4,260
24	3,630	5,550	5,680	8,520	7,800	1,920	3,390	1,040	2,790	6,130	351	4,270
25	4,310	5,430	5,930	8,600	6,610	1,830	2,940	1,500	2,920	5,970	70	4,270
26	6,270	5,270	6,570	8,620	5,530	2,100	1,950	1,680	3,340	5,810	719	4,300
27	7,500	5,240	6,520	8,490	5,100	1,960	1,290	1,600	4,130	5,890	1,070	3,730
28	7,600	5,270	6,300	8,460	4,990	1,650	1,160	1,500	6,340	5,690	1,050	2,930
29	6,830	5,500	6,240	8,700	---	1,480	1,090	1,500	7,880	6,480	1,170	3,640
30	6,280	8,280	6,470	9,050	---	1,380	1,100	2,340	8,760	7,330	3,020	4,090
31	5,750	---	6,430	9,110	---	1,110	---	2,770	---	7,230	4,210	---
<b>Total</b>	91,717	166,330	199,550	243,910	233,590	105,910	42,475	43,122	134,910	214,940	69,615	141,700
<b>Mean</b>	2,959	5,544	6,437	7,868	8,342	3,416	1,416	1,391	4,497	6,934	2,246	4,723
<b>Max</b>	7,600	8,280	9,290	9,110	9,480	7,290	3,390	2,770	8,760	11,400	6,970	6,140
<b>Min</b>	723	4,940	5,560	6,120	4,990	1,110	732	697	2,510	3,210	70	2,930

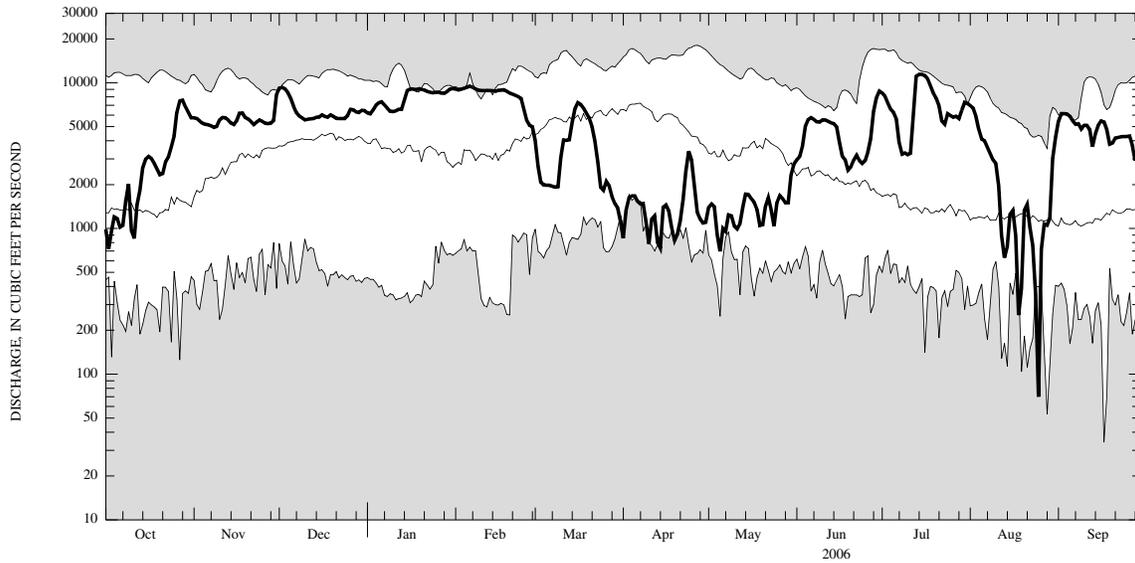
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2006, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	2,141	3,399	4,463	4,070	4,032	5,812	5,999	4,024	2,768	2,014	1,550	1,577
<b>Max</b>	11,020	9,491	10,330	8,807	8,342	11,650	15,610	9,778	6,456	12,100	6,214	7,523
<b>(WY)</b>	(1978)	(1978)	(1978)	(1978)	(2006)	(1956)	(1993)	(1996)	(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 2005		Water Year 2006		Water Years 1950 - 2006	
<b>Annual total</b>	1,663,012		1,687,769			
<b>Annual mean</b>	4,556		4,624		3,482	
<b>Highest annual mean</b>					5,998 1978	
<b>Lowest annual mean</b>					1,357 1965	
<b>Highest daily mean</b>	13,800	Apr 6	11,400	Jul 14	18,100	Apr 27, 1993
<b>Lowest daily mean</b>	99	Aug 28	70	Aug 25	34	Sep 17, 1985
<b>Annual seven-day minimum</b>	454	Aug 14	721	Aug 22	283	Sep 23, 1988
<b>10 percent exceeds</b>	8,700		8,750		7,720	
<b>50 percent exceeds</b>	5,140		5,100		2,420	
<b>90 percent exceeds</b>	735		1,080		844	



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.