

**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>/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 FOR CURRENT YEAR.--Maximum daily discharge, 10,200 ft<sup>3</sup>/s, Dec. 30; minimum daily discharge, 220 ft<sup>3</sup>/s, Sept. 26. Maximum and minimum instantaneous discharges not determined.

## 04237500 SENECA RIVER AT BALDWINVILLE, NY—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	728	3,360	4,790	9,710	1,770	5,060	2,570	1,680	3,660	3,720	683	1,490
2	791	2,960	4,900	9,000	1,740	4,850	2,650	1,460	2,410	3,820	1,000	1,110
3	926	3,410	4,960	8,380	1,770	3,870	2,770	1,250	1,700	4,470	1,650	795
4	949	3,750	4,970	7,700	2,160	2,390	4,940	1,650	1,380	4,700	1,900	1,240
5	903	3,730	4,950	7,360	2,560	2,130	7,490	1,700	937	4,130	1,890	1,040
6	810	3,580	4,150	6,810	2,610	2,200	8,310	1,400	910	3,750	1,020	713
7	767	2,930	3,720	7,050	3,110	2,510	8,870	1,340	1,390	3,920	741	841
8	712	2,470	3,540	7,510	3,570	5,320	8,910	1,800	1,700	4,090	873	970
9	703	2,690	3,260	7,610	4,030	8,020	8,760	2,340	1,910	3,380	978	942
10	707	2,010	2,570	7,570	4,590	8,760	8,570	2,470	1,430	2,700	4,430	924
11	744	1,310	2,220	7,310	5,230	9,100	8,250	2,130	1,130	2,210	5,360	879
12	735	781	2,510	7,330	7,270	9,390	7,100	2,040	1,770	2,040	5,130	847
13	724	653	2,870	7,150	9,280	9,290	6,030	2,000	2,550	2,580	4,030	838
14	686	786	3,120	7,060	9,490	8,900	5,470	1,960	2,880	2,900	3,670	834
15	663	1,450	3,790	6,500	9,560	8,140	4,520	1,630	3,620	2,180	3,660	835
16	1,010	2,060	4,620	6,680	9,390	7,150	3,250	1,630	3,680	1,410	3,340	749
17	1,390	2,270	5,150	7,020	8,900	6,270	2,350	2,980	3,080	961	3,330	798
18	1,570	2,500	5,030	7,350	8,070	6,080	1,440	3,300	3,040	936	2,000	853
19	1,420	2,350	4,640	6,920	7,650	6,120	1,140	2,760	3,730	909	834	833
20	1,300	2,600	4,780	6,580	7,220	5,770	2,100	2,080	4,270	920	770	775
21	1,240	2,890	4,250	6,420	7,260	4,460	2,160	1,780	5,480	954	331	722
22	1,290	3,210	3,780	6,150	7,510	3,860	2,090	1,700	6,260	887	824	729
23	1,330	3,290	4,200	5,820	7,400	3,650	1,520	1,810	6,030	770	1,900	777
24	1,450	3,240	4,710	6,070	7,000	3,160	996	1,660	5,030	828	1,700	801
25	2,130	3,680	5,530	6,050	5,720	2,840	1,170	1,710	4,090	855	1,210	449
26	2,850	4,290	5,710	5,770	4,390	2,800	1,840	2,300	3,560	973	858	220
27	3,150	4,560	6,760	4,000	4,290	2,210	2,490	3,140	3,310	1,490	854	663
28	3,830	4,490	9,380	2,780	5,050	2,040	3,440	3,650	3,280	1,580	810	821
29	4,600	4,700	10,100	2,440	---	2,410	3,250	3,630	3,310	967	795	958
30	4,240	4,700	10,200	1,850	---	3,300	2,510	3,610	3,500	771	888	804
31	4,240	---	10,100	1,840	---	3,000	---	3,640	---	743	1,320	---
<b>Total</b>	48,588	86,700	155,260	197,790	158,590	155,050	126,956	68,230	91,027	66,544	58,779	25,250
<b>Mean</b>	1,567	2,890	5,008	6,380	5,664	5,002	4,232	2,201	3,034	2,147	1,896	842
<b>Max</b>	4,600	4,700	10,200	9,710	9,560	9,390	8,910	3,650	6,260	4,700	5,360	1,490
<b>Min</b>	663	653	2,220	1,840	1,740	2,040	996	1,250	910	743	331	220

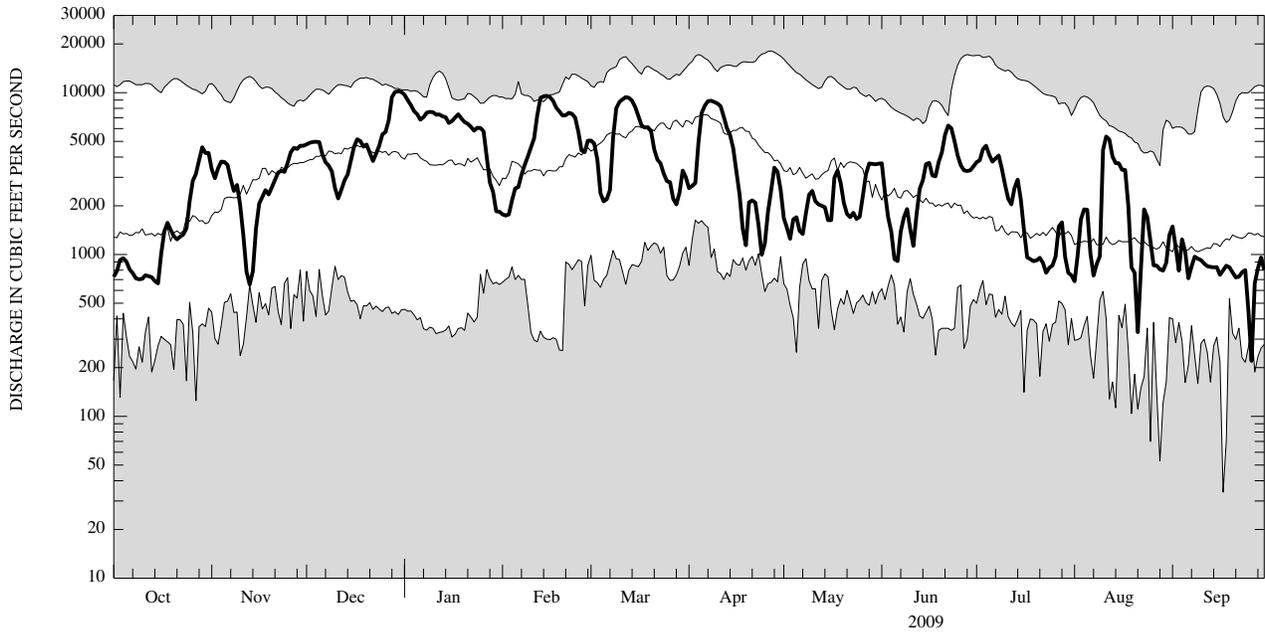
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2009, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	2,168	3,420	4,535	4,208	4,120	5,865	6,014	3,975	2,716	2,001	1,542	1,538
<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 2008		Water Year 2009		Water Years 1950 - 2009	
<b>Annual total</b>	1,355,364		1,238,764			
<b>Annual mean</b>	3,703		3,394		3,502	
<b>Highest annual mean</b>					5,998	1978
<b>Lowest annual mean</b>					1,357	1965
<b>Highest daily mean</b>	10,200	Dec 30	10,200	Dec 30	18,100	Apr 27, 1993
<b>Lowest daily mean</b>	605	Aug 27	220	Sep 26	34	Sep 17, 1985
<b>Annual seven-day minimum</b>	709	Oct 9	623	Sep 21	283	Sep 23, 1988
<b>10 percent exceeds</b>	8,210		7,340		7,780	
<b>50 percent exceeds</b>	2,560		2,780		2,440	
<b>90 percent exceeds</b>	836		810		835	



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.