

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 mi².

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 ft³/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 mi² 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 ft³/s, Apr. 27, 1993, maximum gage height, 9.63 ft, Apr. 26, 27, 1993; minimum daily discharge, 34 ft³/s, Sept. 17, 1985, result of extreme regulation. Maximum and minimum instantaneous discharges not determined.

EXTREMES FOR CURRENT YEAR.—Maximum daily discharge, 12,100 ft³/s, Mar. 28; minimum daily discharge, 160 ft³/s, Sept. 9. Maximum and minimum instantaneous discharges not determined.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4,270	8,310	7,280	7,670	6,120	3,480	10,700	10,500	1,120	569	1,020	662
2	3,770	7,350	9,110	7,390	5,970	2,730	10,500	10,300	1,440	604	835	285
3	3,090	6,520	9,560	7,180	6,020	2,820	10,200	10,100	1,440	691	796	591
4	2,740	5,840	9,870	6,940	5,380	3,170	10,000	10,100	1,420	695	780	763
5	2,630	5,440	9,270	6,690	5,710	3,680	9,920	9,870	1,400	675	476	744
6	2,710	5,130	7,880	7,820	5,140	3,580	9,860	9,650	1,450	665	553	713
7	2,680	4,980	6,960	8,360	5,200	3,070	9,900	8,760	1,340	409	763	704
8	2,710	4,850	6,410	8,910	5,070	2,780	9,850	6,590	964	621	780	301
9	2,690	4,760	6,010	9,000	5,160	2,600	9,740	4,670	971	835	746	160
10	2,910	4,690	5,730	8,890	5,220	2,390	9,650	2,950	1,230	684	757	806
11	3,150	4,760	5,570	8,570	5,070	2,500	9,490	1,470	1,330	659	813	893
12	3,590	5,020	5,480	8,140	4,860	2,960	8,570	1,720	1,240	718	869	679
13	3,880	5,090	5,570	7,990	3,670	4,120	7,010	2,500	1,160	652	813	672
14	3,870	5,380	5,540	7,910	2,670	7,040	6,060	2,520	891	688	866	708
15	3,060	5,860	5,480	8,170	2,540	10,700	5,840	3,110	795	686	831	682
16	2,360	6,270	5,400	8,900	3,110	11,600	6,220	4,250	882	440	773	1,090
17	1,920	7,260	5,260	8,930	3,020	11,700	7,670	4,730	822	600	743	919
18	2,390	7,950	5,370	8,800	2,900	11,500	9,230	4,710	626	767	793	639
19	3,770	8,650	5,310	8,610	3,350	11,100	10,200	3,770	1,130	742	811	655
20	5,820	8,830	5,320	8,100	3,500	10,400	10,900	2,970	1,440	867	747	686
21	8,200	8,320	5,330	7,480	3,890	9,620	11,200	2,760	736	1,220	733	676
22	9,110	7,530	5,270	7,050	3,650	9,200	11,100	1,940	621	1,340	705	687
23	9,130	6,920	5,610	6,970	3,620	9,510	10,800	1,400	857	1,230	708	652
24	8,270	6,710	5,660	6,990	3,760	9,840	10,400	1,160	872	1,350	726	665
25	7,650	6,650	5,840	6,940	3,720	10,300	10,100	1,590	835	1,340	739	672
26	7,150	6,620	6,660	6,850	3,910	10,700	10,100	1,730	788	1,330	583	672
27	6,550	6,430	6,950	6,690	4,120	11,900	10,300	1,810	572	2,050	857	706
28	7,000	6,380	7,150	6,660	3,950	12,100	10,500	1,680	472	2,190	683	768
29	8,660	6,270	7,200	6,470	---	11,900	10,700	1,470	486	1,840	711	1,040
30	9,240	6,170	6,890	6,310	---	11,600	10,700	1,220	527	1,730	163	1,070
31	9,200	---	6,370	6,290	---	11,100	---	1,080	---	1,650	499	---
Total	154,170	190,940	201,310	237,670	120,300	231,690	287,410	133,080	29,857	30,537	22,672	20,960
Mean	4,973	6,365	6,494	7,667	4,296	7,474	9,580	4,293	995	985	731	699
Max	9,240	8,830	9,870	9,000	6,120	12,100	11,200	10,500	1,450	2,190	1,020	1,090
Min	1,920	4,690	5,260	6,290	2,540	2,390	5,840	1,080	472	409	163	160

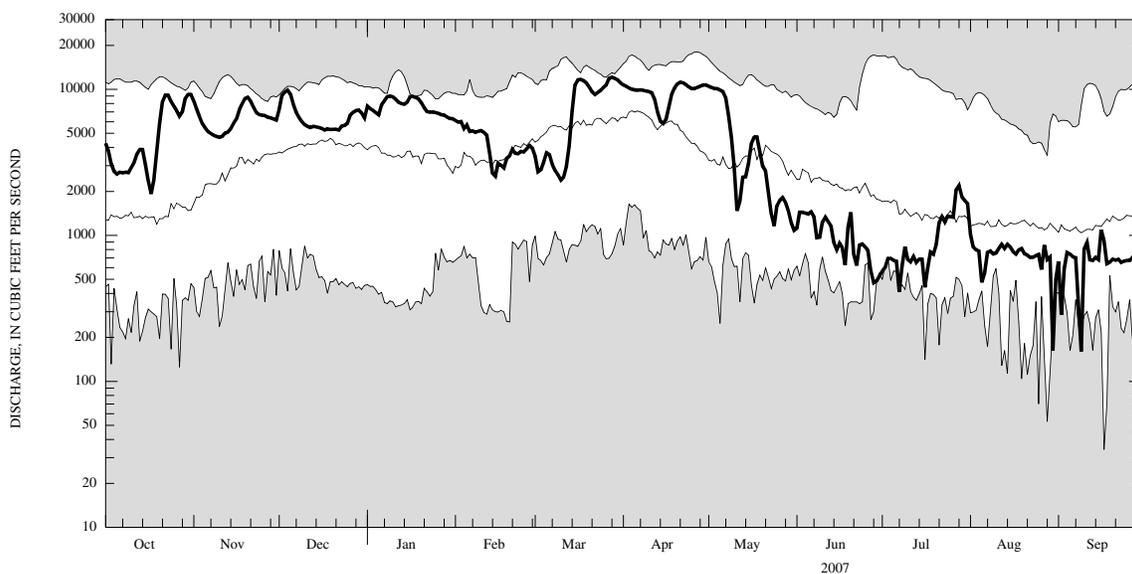
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,190	3,451	4,498	4,133	4,037	5,841	6,061	4,029	2,738	1,997	1,536	1,562
Max	11,020	9,491	10,330	8,807	8,342	11,650	15,610	9,778	6,456	12,100	6,214	7,523
(WY)	(1978)	(1978)	(1978)	(1978)	(2006)	(1956)	(1993)	(1996)	(1972)	(1972)	(1992)	(2004)
Min	572	675	778	805	965	1,606	1,317	719	592	621	576	421
(WY)	(1986)	(1958)	(1961)	(1954)	(1980)	(1965)	(1981)	(1995)	(1995)	(1985)	(2001)	(1995)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1950 - 2007	
Annual total	1,776,592		1,660,596			
Annual mean	4,867		4,550		3,500	
Highest annual mean					5,998	1978
Lowest annual mean					1,357	1965
Highest daily mean	11,400	Jul 14	12,100	Mar 28	18,100	Apr 27, 1993
Lowest daily mean	70	Aug 25	160	Sep 9	34	Sep 17, 1985
Annual seven-day minimum	721	Aug 22	513	Aug 28	283	Sep 23, 1988
10 percent exceeds	8,830		9,870		7,770	
50 percent exceeds	5,110		3,880		2,430	
90 percent exceeds	1,160		683		836	



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.