04235600 SENECA RIVER NEAR PORT BYRON, NY

LOCATION.--Lat 43°04'43", long 76°38'45", Cayuga County, Hydrologic Unit 04140201, on right bank , 50 ft upstream of Rt. 38 bridge, 3.0 mi north of Port Byron, and 10.1 mi upstream from Cross Lake.

DRAINAGE AREA.-- 2,815 mi^2.

PERIOD OF RECORD.--August 1996 to current year.

GAGE.--Acoustic velocity meter, water-stage recorder, and crest-stage gage. Elevation of gage is 375 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. 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. Seneca River basin receives water from Erie (Barge) Canal through lock 32 near Pittsford. During part of the year, entire flow from 45.5 mi^2 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.

COOPERATION.--Records of gate openings, lockages, and elevations of water surface in Erie (Barge) Canal above and below Lock 24 & 25, furnished by New York State Thruway Authority, Office of Canals.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 13,600 ft^3/s, Jan. 11, 1998; minimum daily discharge, 258 ft^3/s, Jan. 22, 2002. Maximum and minimun instantaneous discharges not determined.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 9,900 ft^3/s, Dec. 27; minimum daily discharge, 412 ft^3/s, Oct. 19. Maximum and minimum instantaneous discharges not determined.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,440	3,910	e6,500	e8,580	2,810	e2,160	e6,000	e5,800	7,490	1,050	5,400	5,600
2	2,400	3,930	e6,100	8,340	2,480	2,700	6,200	e5,900	7,710	907	4,560	5,530
3	2,330	3,890	e5,900	7,870	2,490	5,150	6,890	e6,300	7,760	969	4,500	5,450
4	2,330	4,120	e5,500	7,830	2,890	6,590	7,360	e6,500	7,440	863	4,320	5,310
5	2,290	4,190	e5,400	7,800	2,990	e7,310	7,490	e6,300	7,220	795	3,820	4,730
6	2,190	4,050	e5,200	7,650	2,930	e7,900	7,440	e6,200	5,860	846	3,360	4,940
7	1,650	3,950	e5,000	7,430	3,000	e8,100	7,250	e6,100	5,290	756	3,230	4,820
8	1,280	3,840	e4,900	7,130	2,890	e7,800	6,610	e6,100	4,740	748	3,180	5,030
9	1,050	3,830	e5,000	6,750	2,870	e7,400	e5,300	e6,100	4,640	1,010	3,220	6,450
10	906	3,740	e5,000	6,610	2,890	e6,900	e4,100	e6,000	3,980	1,200	2,650	8,610
11	682	3,620	e5,300	6,630	2,920	e6,000	e3,530	e5,900	4,070	1,180	2,120	9,660
12	607	3,660	e6,000	6,580	2,920	e5,800	e3,100	e5,900	3,880	1,290	1,960	9,710
13	532	3,780	e6,600	6,550	2,890	e5,300	e3,200	e5,900	3,770	1,740	1,970	8,860
14	489	3,710	e6,500	6,270	2,900	e5,000	e6,000	e5,600	3,710	2,610	1,980	7,410
15	622	4,000	e6,200	5,760	2,870	e4,700	8,200	5,550	3,550	4,400	1,980	6,400
16	589	4,090	e6,000	5,520	2,500	4,570	e8,530	5,840	2,900	3,770	1,740	5,800
17	548	e4,080	e6,000	5,890	2,120	4,540	8,050	5,950	2,560	3,340	1,610	5,010
18	490	e4,330	e6,300	6,190	1,870	4,450	e7,400	5,890	2,470	2,980	1,710	5,420
19	412	e4,310	e6,600	6,100	1,690	4,430	e7,200	e5,690	2,520	2,880	1,720	6,550
20	589	e5,820	e6,500	5,950	1,680	4,410	e7,100	e4,880	2,520	2,900	1,760	7,170
21	617	6,600	e6,400	5,870	1,670	4,530	e7,200	4,310	2,300	3,450	1,840	7,210
22	632	6,540	e6,000	5,620	1,650	4,800	e7,000	4,370	1,840	3,560	1,960	6,840
23	594	5,910	e6,300	4,780	1,740	4,940	e7,000	4,510	1,600	3,250	2,410	6,870
24	558	5,460	e7,900	4,910	1,900	4,490	e6,900	5,980	1,540	3,250	2,820	6,580
25	638	5,290	e9,000	5,130	2,000	4,100	e6,500	8,090	1,500	3,170	2,550	6,220
26	622	5,040	e9,500	5,160	2,060	4,920	e6,400	8,610	1,510	2,300	1,970	6,160
27	1,340	4,950	e9,900	4,830	2,170	5,810	e6,200	8,550	1,500	3,510	1,820	5,970
28	2,910	5,430	e9,600	4,540	2,100	e6,900	e6,200	8,100	1,460	6,610	1,670	5,840
29	3,810	6,060	e9,000	3,850	2,060	e7,000	e6,200	7,840	1,390	7,130	1,840	5,120
30	3,910	6,520	e8,900	3,140	---	e6,800	e5,800	7,610	1,250	6,510	3,350	4,260
31	3,900	---	e8,800	3,040	---	e6,400	---	7,400	---	6,060	4,490	---
TOTAL	43,957	138,650	207,800	188,300	69,950	171,900	192,350	193,770	109,970	85,034	83,510	189,530
MEAN	1,418	4,622	6,703	6,074	2,412	5,545	6,412	6,251	3,666	2,743	2,694	6,318
MAX	3,910	6,600	9,900	8,580	3,000	8,100	8,530	8,610	7,760	7,130	5,400	9,710
MIN	412	3,620	4,900	3,040	1,650	2,160	3,100	4,310	1,250	748	1,610	4,260

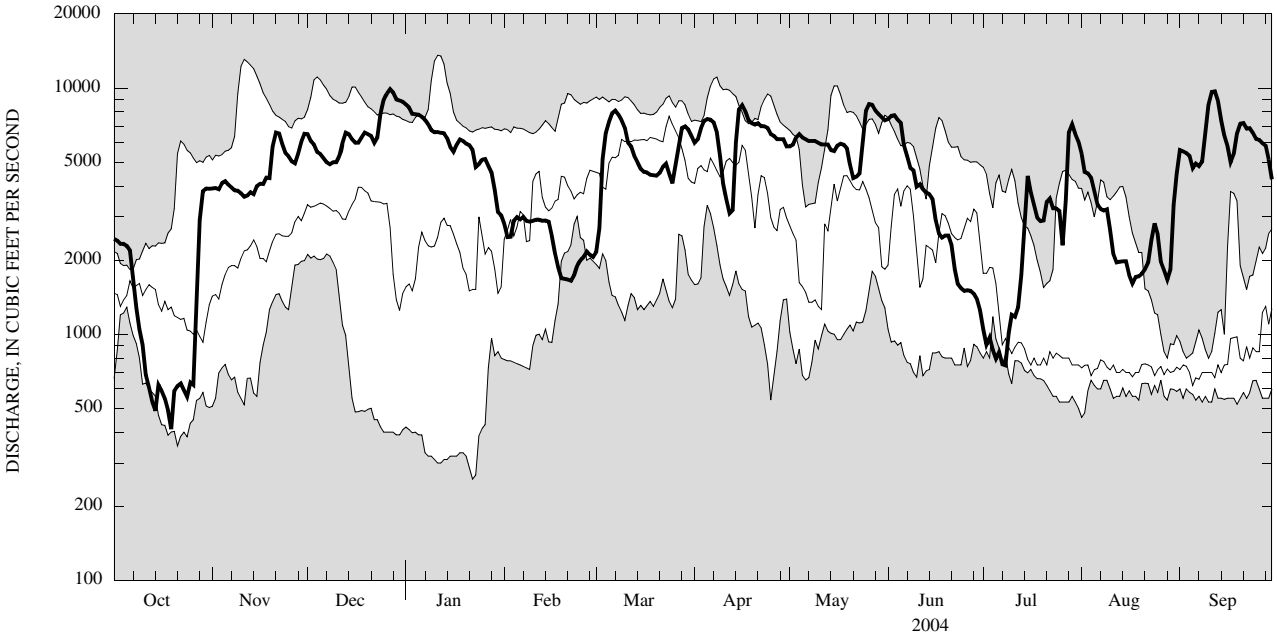
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2004, BY WATER YEAR (WY)

MEAN	1,539	3,149	4,072	3,559	3,628	5,393	4,786	3,757	3,086	1,568	1,342	1,600
MAX	3,013	8,247	8,876	7,671	7,590	8,483	7,416	6,274	5,302	2,743	2,694	6,318
(WY)	(1997)	(1997)	(1997)	(1998)	(1998)	(1998)	(2001)	(2000)	(2002)	(2004)	(2004)	(2004)
MIN	810	1,287	1,186	676	2,134	1,684	2,126	1,234	998	786	602	611
(WY)	(2002)	(2000)	(1999)	(2002)	(1997)	(2002)	(1997)	(1999)	(1999)	(2001)	(2001)	(1998)

04235600 SENECA RIVER NEAR PORT BYRON, NY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1997 - 2004	
ANNUAL TOTAL	1,372,587		1,674,721			
ANNUAL MEAN	3,761		4,576		3,119	
HIGHEST ANNUAL MEAN					4,576	2004
LOWEST ANNUAL MEAN					1,840	1999
HIGHEST DAILY MEAN	11,100	Apr 8	9,900	Dec 27	13,600	Jan 11, 1998
LOWEST DAILY MEAN	412	Oct 19	412	Oct 19	258	Jan 22, 2002
ANNUAL SEVEN-DAY MINIMUM	526	Oct 13	526	Oct 13	310	Jan 8, 1999
10 PERCENT EXCEEDS	7,300		7,430		6,910	
50 PERCENT EXCEEDS	3,710		4,760		2,260	
90 PERCENT EXCEEDS	747		1,500		680	

e Estimated



2004 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.