Water-Data Report 2013

# 04235600 SENECA RIVER NEAR PORT BYRON, NY

Oswego Basin
Seneca Subbasin

LOCATION.--Lat 43°04′43″, long 76°38′44″ referenced to North American Datum of 1983, Cayuga County, NY, Hydrologic Unit 04140201, on right bank , 50 ft upstream of State Highway 38 bridge, 3.0 mi north of Port Byron, and 10.1 mi upstream from Cross Lake.

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

## SURFACE-WATER RECORDS

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

GAGE.--Acoustic velocity meter, water-stage recorder, and crest-stage gage. Datum of gage is 369.60 ft above NGVD of 1929.

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.

REMARKS.--Records good. No estimated daily discharges. 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 and velocity telemeters at station.

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 minimum instantaneous discharges not determined.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 7,780 $ft^3/s$, Apr. 14; minimum daily discharge, 597 $ft^3/s$, Apr. 9. Maximum and minimum instantaneous discharges not determined.



Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 04235600, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/04235600.2013.pdf

**04235600 SENECA RIVER NEAR PORT BYRON, NY—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**
**DAILY MEAN VALUES**

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 789 | 1,860 | 1,240 | 4,770 | 4,560 | 3,370 | 1,630 | 1,410 | 3,820 | 3,490 | 2,970 | 1,150 |
| 2 | 922 | 1,530 | 1,150 | 4,990 | 4,380 | 3,430 | 1,600 | 1,290 | 3,500 | 3,770 | 2,080 | 995 |
| 3 | 915 | 1,360 | 1,540 | 5,430 | 4,050 | 2,920 | 1,470 | 1,150 | 2,740 | 4,720 | 1,460 | 1,360 |
| 4 | 845 | 1,510 | 2,460 | 5,410 | 3,700 | 2,530 | 1,320 | 1,170 | 2,050 | 6,000 | 1,390 | 2,160 |
| 5 | 781 | 1,650 | 2,950 | 5,500 | 3,830 | 2,340 | 1,150 | 1,270 | 2,150 | 5,280 | 1,140 | 2,660 |
| 6 | 816 | 1,670 | 2,980 | 5,390 | 4,470 | 2,190 | 1,010 | 1,180 | 3,180 | 4,520 | 722 | 2,570 |
| 7 | 849 | 1,420 | 2,920 | 5,460 | 4,380 | 2,140 | 1,050 | 1,160 | 5,550 | 4,360 | 750 | 2,640 |
| 8 | 844 | 1,020 | 2,850 | 5,440 | 4,510 | 2,220 | 794 | 1,330 | 6,460 | 4,030 | 794 | 2,610 |
| 9 | 780 | 1,320 | 2,770 | 5,460 | 4,630 | 2,350 | 597 | 1,630 | 6,710 | 4,140 | 2,390 | 2,550 |
| 10 | 871 | 1,620 | 2,940 | 5,410 | 4,400 | 2,480 | 858 | 2,190 | 5,930 | 4,460 | 4,910 | 2,560 |
| 11 | 869 | 1,610 | 3,390 | 5,210 | 4,360 | 2,720 | 3,360 | 2,620 | 5,580 | 4,380 | 4,290 | 2,150 |
| 12 | 794 | 1,630 | 3,450 | 5,790 | 4,400 | 3,330 | 6,350 | 2,990 | 5,940 | 3,680 | 3,400 | 1,510 |
| 13 | 683 | 2,170 | 3,440 | 6,330 | 4,450 | 3,850 | 7,460 | 2,580 | 6,030 | 2,930 | 3,230 | 1,480 |
| 14 | 877 | 2,440 | 3,340 | 6,600 | 4,480 | 3,620 | 7,780 | 2,170 | 7,160 | 2,210 | 3,350 | 1,370 |
| 15 | 884 | 1,420 | 3,140 | 6,610 | 4,470 | 2,860 | 7,430 | 1,710 | 7,550 | 2,150 | 3,330 | 1,400 |
| 16 | 854 | 1,330 | 2,910 | 6,330 | 4,620 | 2,470 | 6,850 | 1,510 | 6,630 | 1,990 | 2,460 | 1,180 |
| 17 | 815 | 1,170 | 3,350 | 5,910 | 4,660 | 2,170 | 6,520 | 1,500 | 5,360 | 1,860 | 1,630 | 1,040 |
| 18 | 772 | 1,140 | 4,060 | 5,750 | 3,750 | 2,050 | 6,040 | 1,500 | 4,310 | 1,560 | 1,760 | 997 |
| 19 | 733 | 1,550 | 4,590 | 5,620 | 2,220 | 1,930 | 5,520 | 1,640 | 3,600 | 1,560 | 1,890 | 979 |
| 20 | 860 | 2,520 | 4,720 | 5,640 | 2,240 | 1,850 | 5,350 | 1,600 | 3,030 | 1,570 | 2,150 | 972 |
| 21 | 830 | 1,780 | 4,860 | 5,530 | 2,310 | 1,960 | 5,400 | 1,370 | 2,450 | 1,680 | 1,870 | 1,020 |
| 22 | 734 | 1,710 | 5,200 | 5,400 | 2,110 | 1,980 | 5,320 | 2,050 | 2,230 | 1,590 | 1,570 | 1,550 |
| 23 | 798 | 1,740 | 5,170 | 4,980 | 1,850 | 1,950 | 5,340 | 2,810 | 2,300 | 1,470 | 1,290 | 1,880 |
| 24 | 742 | 1,560 | 5,050 | 3,980 | 1,880 | 1,940 | 5,230 | 3,060 | 3,280 | 1,430 | 975 | 1,620 |
| 25 | 1,470 | 1,550 | 5,050 | 2,130 | 1,810 | 1,990 | 4,190 | 3,430 | 4,120 | 1,340 | 931 | 1,660 |
| 26 | 2,600 | 2,190 | 5,000 | 1,780 | 1,620 | 1,970 | 2,370 | 2,670 | 4,440 | 1,210 | 975 | 1,340 |
| 27 | 4,280 | 3,520 | 4,830 | 1,700 | 1,790 | 1,910 | 1,480 | 1,790 | 4,290 | 1,290 | 1,270 | 1,060 |
| 28 | 5,170 | 3,880 | 4,650 | 1,910 | 2,500 | 1,840 | 1,480 | 1,660 | 3,260 | 1,560 | 1,450 | 1,120 |
| 29 | 5,220 | 2,590 | 4,730 | 2,470 | --- | 1,820 | 1,650 | 2,550 | 3,380 | 1,580 | 1,150 | 1,300 |
| 30 | 3,670 | 1,400 | 4,660 | 3,070 | --- | 1,760 | 1,610 | 3,950 | 3,490 | 1,810 | 1,130 | 1,280 |
| 31 | 2,120 | --- | 4,750 | 4,060 | --- | 1,710 | --- | 4,140 | --- | 2,610 | 1,120 | --- |
| Total | 44,187 | 53,860 | 114,140 | 150,060 | 98,430 | 73,650 | 108,209 | 63,080 | 130,520 | 86,230 | 59,827 | 48,163 |
| Mean | 1,425 | 1,795 | 3,682 | 4,841 | 3,515 | 2,376 | 3,607 | 2,035 | 4,351 | 2,782 | 1,930 | 1,605 |
| Max | 5,220 | 3,880 | 5,200 | 6,610 | 4,660 | 3,850 | 7,780 | 4,140 | 7,550 | 6,000 | 4,910 | 2,660 |
| Min | 683 | 1,020 | 1,150 | 1,700 | 1,620 | 1,710 | 597 | 1,150 | 2,050 | 1,210 | 722 | 972 |

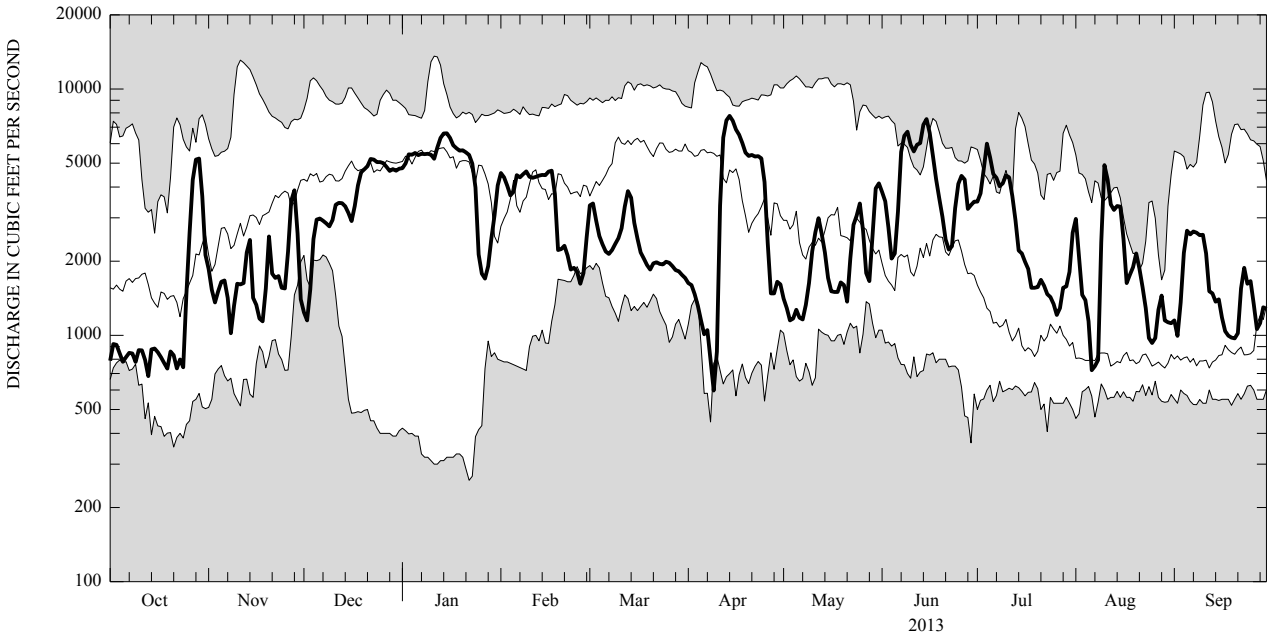
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2013, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 2,110 | 3,332 | 4,591 | 4,379 | 4,184 | 5,091 | 4,622 | 3,452 | 2,722 | 1,704 | 1,283 | 1,570 |
| Max | 4,133 | 8,247 | 8,876 | 7,671 | 7,590 | 9,202 | 8,862 | 9,366 | 5,299 | 4,550 | 2,694 | 6,318 |
| (WY) | (2007) | (1997) | (1997) | (1998) | (1998) | (2011) | (2005) | (2011) | (2002) | (2006) | (2004) | (2004) |
| Min | 894 | 1,287 | 1,186 | 676 | 2,134 | 1,684 | 1,158 | 1,194 | 995 | 650 | 602 | 611 |
| (WY) | (1998) | (2000) | (1999) | (2002) | (1997) | (2002) | (2006) | (2006) | (2007) | (2012) | (2001) | (1998) |

**04235600 SENECA RIVER NEAR PORT BYRON, NY—Continued**

**SUMMARY STATISTICS**

| | Calendar Year 2012 | | Water Year 2013 | | Water Years 1997 - 2013 | |
|---|---|---|---|---|---|---|
| **Annual total** | 808,042 | | 1,030,356 | | | |
| **Annual mean** | 2,208 | | 2,823 | | 3,304 | |
| **Highest annual mean** | | | | | 4,576 | 2004 |
| **Lowest annual mean** | | | | | 1,840 | 1999 |
| **Highest daily mean** | 7,670 | Jan 29 | 7,780 | Apr 14 | 13,600 | Jan 11, 1998 |
| **Lowest daily mean** | 366 | Jun 29 | 597 | Apr 9 | 258 | Jan 22, 2002 |
| **Annual seven-day minimum** | 545 | Jun 28 | 781 | Oct 18 | 310 | Jan 8, 1999 |
| **10 percent exceeds** | 5,470 | | 5,400 | | 6,990 | |
| **50 percent exceeds** | 1,520 | | 2,220 | | 2,520 | |
| **90 percent exceeds** | 669 | | 996 | | 750 | |




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.