# 04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY

Southwestern Lake Ontario Basin
Upper Genesee Subbasin

LOCATION.--Lat 42°46′00″, long 77°50′21″ referenced to North American Datum of 1927, Livingston County, NY, Hydrologic Unit 04130002, on right bank 100 ft north of Jones Bridge Road, 0.8 mi downstream from Canaseraga Creek, 2.8 mi northeast of Mount Morris, and 63.0 mi upstream from mouth.

DRAINAGE AREA.--1,424 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1903 to April 1906, August 1908 to April 1914, July 1915 to current year. Prior to 1968, published as "at Jones Bridge."

REVISED RECORDS.--WSP 1277: 1952. WSP 1387: 1913. WSP 1437: 1955. WDR NY-82-3: Drainage area. WDR NY-78-1: 1974-77 (M,m). WDR NY-01-3: 1991, 1992, 1996-2000 (M).

GAGE.--Water-stage recorder. Datum of gage is 540.12 ft above NGVD of 1929. Prior to Sept. 11, 1915, nonrecording gage on bridge at datum 2.85 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Diurnal fluctuation at low flow caused by powerplant. Flow regulated to some extent by Rushford Lake since July 1928, and at high flows since November 1951 by Mount Morris Lake (see station 04224000). Monthly figures of discharge and runoff 1952 to 1966 water years adjusted for change in contents in Rushford Lake and Mount Morris Lake. U.S. Army Corps of Engineers, Buffalo District, telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, prior to construction of Mt. Morris Reservoir in November 1951, 55,100 $ft^3/s$, May 17, 1916, gage height, 25.44 ft; maximum gage height, 25.80 ft, Mar. 13, 1920 (ice jam); minimum discharge, 18 $ft^3/s$, Aug. 29, 1909. Maximum discharge, since construction of Mt. Morris Reservoir in November 1951, 17,800 $ft^3/s$, June 23, 1972, gage height, 24.50 ft; minimum discharge, 12 $ft^3/s$, July 23, 1955, gage height, 0.22 ft, partially obstructed intake.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,920 $ft^3/s$, Mar. 19, gage height, 13.86 ft; minimum discharge, 199 $ft^3/s$, Dec. 22, gage height, 2.23 ft.

**04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**
**DAILY MEAN VALUES**
[e, estimated]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 581 | 2,310 | 1,240 | 2,110 | e5,640 | e560 | 6,520 | 1,090 | 444 | 825 | 531 | 285 |
| 2 | 505 | 1,580 | 1,240 | 2,020 | e4,830 | e570 | 6,090 | 981 | 447 | 559 | 504 | 261 |
| 3 | 559 | 1,170 | 1,360 | 1,650 | e3,720 | e580 | 4,360 | 837 | 613 | 474 | 487 | 250 |
| 4 | 771 | 1,020 | 2,640 | e1,370 | e1,500 | e645 | 1,860 | 794 | 776 | 420 | 437 | 251 |
| 5 | 663 | 919 | 2,260 | e1,290 | e1,330 | 639 | 1,430 | 891 | 797 | 376 | 427 | 303 |
| 6 | 534 | 897 | 1,590 | e1,270 | e1,170 | 640 | 1,350 | 1,270 | 2,200 | 344 | 495 | 253 |
| 7 | 465 | 911 | 1,340 | e1,240 | e940 | 671 | 1,520 | 2,080 | 3,910 | 316 | 406 | 232 |
| 8 | 665 | 809 | 1,180 | e1,200 | e739 | 835 | 1,430 | 1,600 | 3,950 | 295 | 347 | 341 |
| 9 | 629 | 734 | 1,350 | e1,030 | e659 | 1,260 | 1,330 | 2,190 | 3,240 | 399 | 314 | 390 |
| 10 | 630 | 670 | 2,990 | e739 | e673 | 2,150 | 1,370 | 1,750 | 1,760 | 2,430 | 307 | 297 |
| 11 | 787 | 622 | 2,900 | e659 | e646 | 2,860 | 1,180 | 1,300 | 1,690 | 1,180 | 312 | 277 |
| 12 | 604 | 582 | 2,190 | e686 | e653 | 4,310 | 1,030 | 2,550 | 1,150 | 629 | 316 | 294 |
| 13 | 478 | 555 | 1,780 | e712 | e646 | 4,560 | 916 | 4,030 | 1,180 | 605 | 297 | 349 |
| 14 | 449 | 531 | 2,050 | e719 | e633 | 5,270 | 848 | 3,980 | 1,460 | 854 | 272 | 298 |
| 15 | 441 | 516 | 2,710 | e739 | e620 | 4,990 | 797 | 3,690 | 1,190 | 573 | 272 | 257 |
| 16 | 1,190 | 499 | 3,120 | e752 | e627 | 5,090 | 779 | 3,020 | 1,020 | 436 | 328 | 242 |
| 17 | 1,410 | 478 | 2,870 | e739 | e614 | 6,090 | 951 | 1,830 | 1,120 | 474 | 323 | 1,620 |
| 18 | 1,690 | 455 | 2,360 | 962 | e614 | 6,870 | 1,010 | 1,600 | 1,000 | 357 | 296 | 918 |
| 19 | 2,310 | 446 | 2,100 | 1,900 | e602 | 7,750 | 950 | 2,110 | 746 | 335 | 280 | 518 |
| 20 | 2,250 | 640 | 1,970 | 2,080 | e568 | 6,860 | 860 | 1,940 | 645 | 338 | 271 | 391 |
| 21 | 2,080 | 1,270 | 1,590 | 861 | e583 | 4,700 | 770 | 1,480 | 675 | 347 | 258 | 332 |
| 22 | 1,200 | 954 | 779 | 649 | e547 | 3,830 | 712 | 1,090 | 537 | 359 | 1,420 | 296 |
| 23 | 1,060 | 769 | 1,200 | 1,980 | e530 | 5,770 | 659 | 910 | 516 | 419 | 3,010 | 296 |
| 24 | 1,070 | 700 | 2,150 | 1,140 | e540 | 5,870 | 617 | 754 | 606 | 484 | 1,720 | 281 |
| 25 | 1,380 | 791 | 1,350 | 3,910 | e540 | 4,740 | 641 | 774 | 552 | 1,280 | 1,040 | 254 |
| 26 | 1,340 | 854 | 2,190 | 6,150 | e520 | 6,180 | 983 | 649 | 470 | 3,110 | 725 | 237 |
| 27 | 1,030 | 864 | 4,900 | 5,290 | e512 | 6,210 | 2,840 | 580 | 434 | 1,340 | 571 | 237 |
| 28 | 1,440 | 894 | 4,510 | 5,900 | e535 | 5,510 | 2,410 | 556 | 470 | 753 | 459 | 298 |
| 29 | 3,700 | 1,080 | 4,020 | 6,150 | --- | 5,280 | 1,600 | 587 | 2,450 | 1,000 | 398 | 398 |
| 30 | 2,210 | 1,000 | 3,630 | e6,170 | --- | 5,990 | 1,260 | 508 | 1,060 | 1,240 | 349 | 801 |
| 31 | 1,750 | --- | 2,970 | e6,210 | --- | 6,450 | --- | 463 | --- | 707 | 313 | --- |
| Total | 35,871 | 25,520 | 70,529 | 68,277 | 31,731 | 123,730 | 49,073 | 47,884 | 37,108 | 23,258 | 17,485 | 11,457 |
| Mean | 1,157 | 851 | 2,275 | 2,202 | 1,133 | 3,991 | 1,636 | 1,545 | 1,237 | 750 | 564 | 382 |
| Max | 3,700 | 2,310 | 4,900 | 6,210 | 5,640 | 7,750 | 6,520 | 4,030 | 3,950 | 3,110 | 3,010 | 1,620 |
| Min | 441 | 446 | 779 | 649 | 512 | 560 | 617 | 463 | 434 | 295 | 258 | 232 |

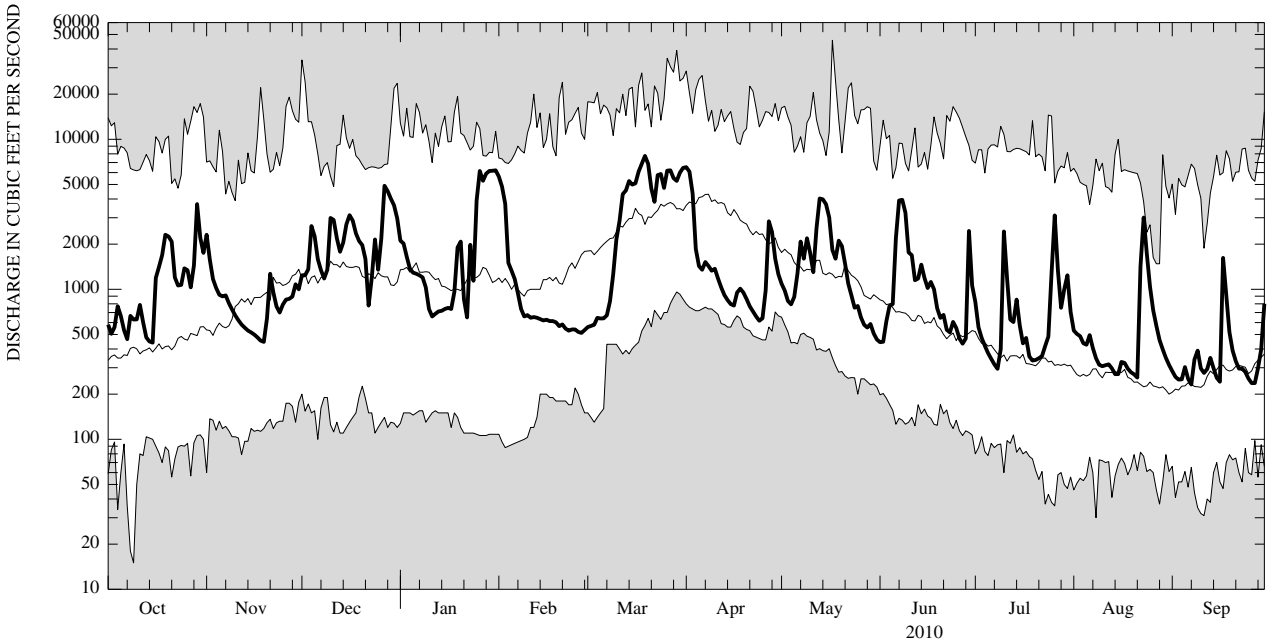
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2010, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 991 | 1,474 | 2,114 | 1,957 | 2,077 | 3,706 | 4,039 | 2,057 | 1,219 | 756 | 551 | 620 |
| Max | 4,743 | 4,556 | 5,369 | 5,659 | 5,106 | 7,755 | 7,270 | 5,677 | 4,305 | 6,801 | 4,040 | 4,130 |
| (WY) | (1978) | (2007) | (1973) | (1998) | (1990) | (1976) | (1978) | (1996) | (1989) | (1972) | (2003) | (1977) |
| Min | 107 | 152 | 280 | 135 | 383 | 1,365 | 1,464 | 477 | 191 | 87.6 | 116 | 99.2 |
| (WY) | (1961) | (1965) | (1961) | (1961) | (1958) | (1960) | (1995) | (1955) | (1955) | (1955) | (2001) | (1995) |

**04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY—Continued**

**SUMMARY STATISTICS**

| | Calendar Year 2009 | | Water Year 2010 | | Water Years 1952 - 2010 | |
|---|---|---|---|---|---|---|
| **Annual total** | 663,452 | | 541,923 | | | |
| **Annual mean** | 1,818 | | 1,485 | | 1,794 | |
| **Highest annual mean** | | | | | 2,603 | 2004 |
| **Lowest annual mean** | | | | | 1,057 | 1965 |
| **Highest daily mean** | 7,010 | Mar 15 | 7,750 | Mar 19 | 16,500 | Jun 24, 1972 |
| **Lowest daily mean** | 307 | Sep 23 | 232 | Sep 7 | 15 | Oct 9, 1980 |
| **Annual seven-day minimum** | 315 | Sep 20 | 262 | Sep 1 | 57 | Jul 27, 1955 |
| **10 percent exceeds** | 5,100 | | 3,930 | | 4,810 | |
| **50 percent exceeds** | 1,030 | | 854 | | 980 | |
| **90 percent exceeds** | 475 | | 330 | | 194 | |




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.