Water-Data Report 2013

# 04258000 BEAVER RIVER AT CROGHAN, NY

Northeastern Lake Ontario Basin
Black Subbasin

LOCATION.--Lat 43°53′50″, long 75°24′15″ referenced to North American Datum of 1983, Lewis County, NY, Hydrologic Unit 04150101, on left bank 1,200 ft upstream from Black Creek, and 0.5 mi west of Croghan.

DRAINAGE AREA.--291 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1930 to current year.

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 806.20 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Stillwater Reservoir (see station 04256500). Between Stillwater Dam and this station, flow is further regulated by several powerplant ponds. Diurnal fluctuation at low and medium flow. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,100 $ft^3/s$, May 21, 1969, gage height, 6.98 ft; minimum discharge, 11 $ft^3/s$, Jan. 22, 29, Feb. 4, 1967, gage height, 0.63 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,890 $ft^3/s$, June 19, gage height, 4.51 ft; maximum gage height, 4.98 ft, Feb. 1 (ice jam); minimum discharge, 264 $ft^3/s$, on several days in May, gage height, 2.09 ft.

**04258000 BEAVER RIVER AT CROGHAN, NY—Continued**

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

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 414 | 374 | 417 | 456 | e2,020 | 836 | 774 | 292 | 614 | 1,200 | 658 | 445 |
| 2 | 543 | 574 | 484 | e446 | 1,330 | 888 | 819 | 277 | 644 | 1,100 | 682 | 470 |
| 3 | 539 | 538 | 458 | e442 | e668 | 686 | 795 | 268 | 694 | 987 | 683 | 436 |
| 4 | 534 | 524 | 731 | 514 | e453 | 832 | 601 | 267 | 843 | 1,010 | 682 | 640 |
| 5 | 326 | 564 | 780 | 459 | e505 | 643 | 378 | 267 | 584 | 1,080 | 679 | 547 |
| 6 | 429 | 562 | 812 | 496 | 378 | 711 | 340 | 266 | 612 | 993 | 677 | 398 |
| 7 | 598 | 515 | 628 | 434 | 439 | 740 | 349 | 264 | 735 | 905 | 669 | 487 |
| 8 | 559 | 316 | 565 | e414 | 541 | 770 | 396 | 264 | 867 | 566 | 659 | 380 |
| 9 | 534 | 389 | 448 | 381 | 539 | 683 | 782 | 268 | 810 | 685 | 776 | 420 |
| 10 | 531 | 453 | 457 | 432 | 689 | 699 | 1,160 | 355 | 766 | 779 | 936 | 542 |
| 11 | 412 | 327 | 711 | 396 | 589 | 795 | 1,270 | 573 | 992 | 772 | 867 | 557 |
| 12 | 359 | 431 | 753 | 510 | 590 | 1,220 | 1,240 | 544 | 1,190 | 844 | 704 | 414 |
| 13 | 545 | 556 | 664 | e606 | 586 | 1,450 | 1,180 | 383 | 1,480 | 781 | 700 | 420 |
| 14 | 594 | 566 | 510 | 1,010 | 579 | 1,270 | 958 | 302 | 1,360 | 801 | 700 | 455 |
| 15 | 692 | 588 | 439 | 1,060 | 546 | 559 | 598 | 295 | 1,690 | 557 | 700 | 318 |
| 16 | 631 | 527 | 471 | 952 | 542 | 349 | 567 | 286 | 1,660 | 635 | 698 | 505 |
| 17 | 554 | 533 | 496 | 703 | e577 | 358 | 1,020 | 271 | 1,690 | 678 | 536 | 593 |
| 18 | 502 | 446 | 524 | 600 | e532 | 330 | 1,150 | 266 | 1,740 | 601 | 520 | 440 |
| 19 | 545 | 324 | 744 | 507 | 469 | 334 | 1,040 | 267 | 1,570 | 613 | 519 | 505 |
| 20 | 661 | 349 | 721 | 446 | 518 | 657 | 1,230 | 265 | 1,170 | 612 | 373 | 452 |
| 21 | 815 | 512 | 895 | 535 | 547 | 582 | 1,320 | 271 | 968 | 612 | 373 | 471 |
| 22 | 722 | 372 | 1,010 | 487 | 807 | 568 | 778 | 361 | 904 | 612 | 375 | 586 |
| 23 | 605 | 297 | 800 | e479 | 744 | 551 | 429 | 433 | 929 | 612 | 408 | 748 |
| 24 | 550 | 424 | 772 | e461 | 735 | 545 | 336 | 612 | 929 | 614 | 401 | 562 |
| 25 | 451 | 368 | 539 | 782 | 696 | 512 | 337 | 587 | 908 | 577 | 412 | 545 |
| 26 | 487 | 322 | 491 | e459 | 761 | 502 | 376 | 548 | 655 | 614 | 480 | 465 |
| 27 | 462 | 448 | e504 | 484 | 784 | 569 | 400 | 484 | 695 | 620 | 414 | 426 |
| 28 | 486 | 452 | 498 | e459 | 811 | 567 | 382 | 420 | 894 | 710 | 548 | 495 |
| 29 | 336 | 417 | 503 | 354 | --- | 560 | 311 | 306 | 1,180 | 734 | 454 | 501 |
| 30 | 410 | 362 | 568 | 712 | --- | 596 | 317 | 275 | 1,200 | 704 | 476 | 547 |
| 31 | 498 | --- | 514 | e1,560 | --- | 572 | --- | 424 | --- | 657 | 500 | --- |
| Total | 16,324 | 13,430 | 18,907 | 18,036 | 18,975 | 20,934 | 21,633 | 10,961 | 30,973 | 23,265 | 18,259 | 14,770 |
| Mean | 527 | 448 | 610 | 582 | 678 | 675 | 721 | 354 | 1,032 | 750 | 589 | 492 |
| Max | 815 | 588 | 1,010 | 1,560 | 2,020 | 1,450 | 1,320 | 612 | 1,740 | 1,200 | 936 | 748 |
| Min | 326 | 297 | 417 | 354 | 378 | 330 | 311 | 264 | 584 | 557 | 373 | 318 |

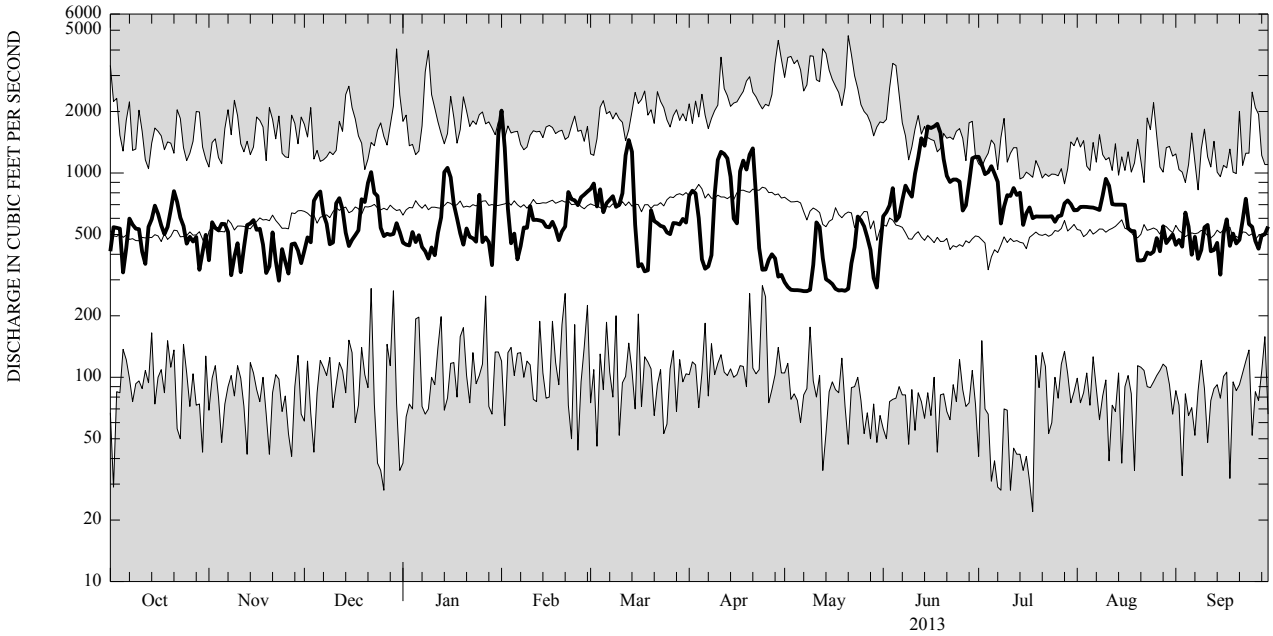
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2013, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 530 | 589 | 660 | 698 | 715 | 723 | 828 | 722 | 531 | 497 | 525 | 514 |
| Max | 1,015 | 1,144 | 1,190 | 1,486 | 1,519 | 1,490 | 1,842 | 1,977 | 1,184 | 863 | 913 | 824 |
| (WY) | (2011) | (1989) | (1978) | (1978) | (1973) | (1976) | (2008) | (1943) | (1947) | (1972) | (1986) | (1986) |
| Min | 258 | 160 | 175 | 315 | 292 | 321 | 298 | 199 | 244 | 174 | 293 | 313 |
| (WY) | (2002) | (1940) | (1940) | (1961) | (1956) | (1967) | (1995) | (1941) | (1941) | (1965) | (2001) | (2001) |

**04258000 BEAVER RIVER AT CROGHAN, NY—Continued**

**SUMMARY STATISTICS**

| | Calendar Year 2012 | | Water Year 2013 | | Water Years 1930 - 2013 | |
|---|---|---|---|---|---|---|
| **Annual total** | 193,706 | | 226,467 | | | |
| **Annual mean** | 529 | | 620 | | 627 | |
| **Highest annual mean** | | | | | 916 | 1976 |
| **Lowest annual mean** | | | | | 361 | 1931 |
| **Highest daily mean** | 1,260 | Jan 29 | 2,020 | Feb 1 | 4,700 | May 21, 1969 |
| **Lowest daily mean** | 260 | Apr 19 | 264 | May 7 | 22 | Jul 18, 1965 |
| **Annual seven-day minimum** | 268 | Apr 3 | 266 | May 3 | 37 | Jul 12, 1965 |
| **10 percent exceeds** | 816 | | 976 | | 997 | |
| **50 percent exceeds** | 488 | | 554 | | 585 | |
| **90 percent exceeds** | 318 | | 349 | | 291 | |




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.