

**01346000 WEST CANADA CREEK AT KAST BRIDGE, NY**

Upper Hudson Basin  
Mohawk Subbasin

LOCATION.--Lat 43°04'08", long 74°59'18" referenced to North American Datum of 1983, Herkimer County, NY, Hydrologic Unit 02020004, on right bank 600 ft downstream from bridge on old State Highway 28 at Kast Bridge, 1.2 mi downstream from North Creek, 2.2 mi north of Herkimer, and 4.0 mi upstream from mouth.

DRAINAGE AREA.--560 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--January 1907, April to December 1907, March 1908 to December 1909, April 1910 to December 1911 (monthly discharges only, published in WSP 1302), January 1912 to December 1913, April 1914 to June 1918 (monthly discharges only for most months, published in WSP 1302), October 1920 to current year. Record prior to October 1920 furnished by State engineer and surveyor of New York.

REVISED RECORDS.--WDR NY-85-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 438.99 ft above NGVD of 1929. Prior to Sept. 18, 1920, nonrecording gage at former highway bridge 500 ft upstream at different datum. Sept. 18, 1920 to Oct. 23, 1985, at site on left bank at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Since March 1914, flow regulated by Hinckley Reservoir, 31 mi upstream from station (usable capacity, 3,320 mil ft<sup>3</sup>). Diurnal fluctuation at low and medium flow caused by powerplants upstream from station. Diversion at Trenton Falls, 26 mi upstream from station, by Ninemile feeder since 1915 during canal navigation season. Diversion from Hinckley Reservoir for Utica water supply returned to Mohawk River. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge since construction of Hinckley Reservoir, 25,300 ft<sup>3</sup>/s, June 28, 2013, gage height, 9.01 ft; maximum gage height, 10.47 ft, probably Feb. 17, 1943, from floodmark in gage well (ice jam); minimum discharge, 20 ft<sup>3</sup>/s, Sept. 3, 1929, gage height, 0.90 ft.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--Maximum discharge prior to construction of Hinckley Reservoir, 23,300 ft<sup>3</sup>/s, Mar. 26, 1913, from reports of State engineer and surveyor of New York.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,300 ft<sup>3</sup>/s, June 28, gage height, 9.01 ft; minimum discharge, 277 ft<sup>3</sup>/s, Aug. 8; minimum gage height, 2.25 ft, Oct. 9, Aug. 8

## 01346000 WEST CANADA CREEK AT KAST BRIDGE, 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            | 481    | 958    | 611    | 1,120  | 1,820  | 966    | 1,520  | 2,170  | 1,160  | 7,120  | 862    | 583    |
| 2            | 412    | 1,210  | 765    | 1,350  | 1,310  | 783    | 1,430  | 2,060  | 1,790  | 8,230  | 858    | 794    |
| 3            | 532    | 1,110  | 1,170  | 1,440  | 1,090  | 720    | 1,110  | 1,950  | 1,220  | 11,500 | 736    | 769    |
| 4            | 673    | 1,050  | 840    | 1,430  | 1,170  | 695    | 1,090  | 1,960  | 1,440  | 8,680  | 797    | 624    |
| 5            | 674    | 1,090  | 1,090  | 1,310  | 1,150  | 643    | 1,220  | 1,890  | 1,880  | 6,200  | 699    | 662    |
| 6            | 685    | 1,110  | 1,070  | 1,200  | 1,070  | 652    | 1,170  | 1,870  | 1,930  | 4,600  | 791    | 652    |
| 7            | 728    | 1,000  | 1,010  | 1,340  | 1,030  | 670    | 1,170  | 1,930  | 2,520  | 3,770  | 758    | 603    |
| 8            | 804    | 1,080  | 1,030  | 1,240  | 1,240  | 697    | 1,490  | 2,060  | 1,420  | 4,870  | 634    | 565    |
| 9            | 742    | 1,050  | 1,050  | 1,270  | e1,450 | 707    | 1,670  | 1,750  | 1,160  | 3,870  | 593    | 615    |
| 10           | 738    | 1,040  | 2,310  | 1,260  | e1,460 | 771    | 2,570  | 1,380  | 1,440  | 2,790  | 749    | 793    |
| 11           | 831    | 998    | 2,040  | 1,190  | e1,440 | 997    | 2,290  | 1,510  | 3,150  | 2,970  | 629    | 844    |
| 12           | 982    | 1,090  | 1,310  | 1,300  | 1,390  | 2,770  | 2,900  | 1,590  | 1,920  | 2,950  | 627    | 1,400  |
| 13           | 890    | 1,330  | 1,180  | 2,030  | 1,330  | 2,040  | 2,590  | 1,500  | 5,090  | 2,720  | 679    | 829    |
| 14           | 1,630  | 1,160  | 1,100  | 2,170  | 1,330  | 1,350  | 1,770  | 1,330  | 4,490  | 2,160  | 713    | 475    |
| 15           | 1,290  | 1,130  | 1,130  | 1,800  | 1,370  | 1,670  | 1,830  | 1,160  | 3,390  | 2,230  | 624    | 598    |
| 16           | 1,010  | 1,120  | 1,080  | 1,370  | 1,440  | 1,410  | 2,310  | 1,260  | 2,530  | 2,130  | 567    | 684    |
| 17           | 876    | 977    | 1,240  | 1,290  | 1,290  | 1,370  | 2,550  | 1,010  | 2,520  | 2,100  | 565    | 689    |
| 18           | 882    | 931    | 2,350  | 1,190  | e1,410 | 1,360  | 2,130  | 952    | 2,560  | 1,870  | 577    | 709    |
| 19           | 1,590  | 1,080  | 1,780  | 1,350  | 1,420  | 1,370  | 2,180  | 1,060  | 2,220  | 2,040  | 558    | 795    |
| 20           | 1,520  | 1,050  | 1,360  | 1,180  | 1,420  | 1,380  | 6,530  | 952    | 1,970  | 1,160  | 555    | 837    |
| 21           | 1,150  | 1,030  | 3,020  | 1,170  | e1,390 | 1,320  | 7,780  | 1,070  | 1,870  | 1,150  | 564    | 718    |
| 22           | 1,120  | 1,010  | 2,120  | 1,190  | e1,470 | 1,520  | 4,940  | 1,170  | 1,990  | 901    | 637    | 846    |
| 23           | 1,060  | 1,020  | 1,540  | e1,070 | 1,320  | 1,560  | 3,330  | 950    | 3,120  | 1,040  | 616    | 787    |
| 24           | 995    | 1,010  | 1,390  | e1,070 | 1,310  | 1,540  | 2,750  | 1,230  | 2,280  | 856    | 521    | 743    |
| 25           | 1,080  | 999    | 1,330  | e1,130 | 1,370  | 1,570  | 3,090  | 1,230  | 2,210  | 784    | 519    | 731    |
| 26           | 1,780  | 1,000  | 1,230  | e1,210 | 1,320  | 1,440  | 3,770  | 1,120  | 3,580  | 748    | 541    | 681    |
| 27           | 1,650  | 1,020  | 1,340  | 1,110  | 1,340  | 946    | 3,210  | 944    | 1,720  | 681    | 561    | 641    |
| 28           | 1,200  | 999    | 1,400  | 1,300  | 1,500  | 1,020  | 2,580  | 817    | 8,340  | 711    | 550    | 620    |
| 29           | 1,160  | 842    | 1,380  | 1,250  | ---    | 1,020  | 2,370  | 1,590  | 5,560  | 820    | 538    | 520    |
| 30           | 1,070  | 770    | 1,440  | 1,990  | ---    | 1,040  | 2,250  | 1,490  | 6,690  | 631    | 571    | 603    |
| 31           | 1,210  | ---    | 1,390  | 4,690  | ---    | 1,140  | ---    | 1,210  | ---    | 646    | 660    | ---    |
| <b>Total</b> | 31,445 | 31,264 | 43,096 | 45,010 | 37,650 | 37,137 | 77,590 | 44,165 | 83,160 | 92,928 | 19,849 | 21,410 |
| <b>Mean</b>  | 1,014  | 1,042  | 1,390  | 1,452  | 1,345  | 1,198  | 2,586  | 1,425  | 2,772  | 2,998  | 640    | 714    |
| <b>Max</b>   | 1,780  | 1,330  | 3,020  | 4,690  | 1,820  | 2,770  | 7,780  | 2,170  | 8,340  | 11,500 | 862    | 1,400  |
| <b>Min</b>   | 412    | 770    | 611    | 1,070  | 1,030  | 643    | 1,090  | 817    | 1,160  | 631    | 519    | 475    |

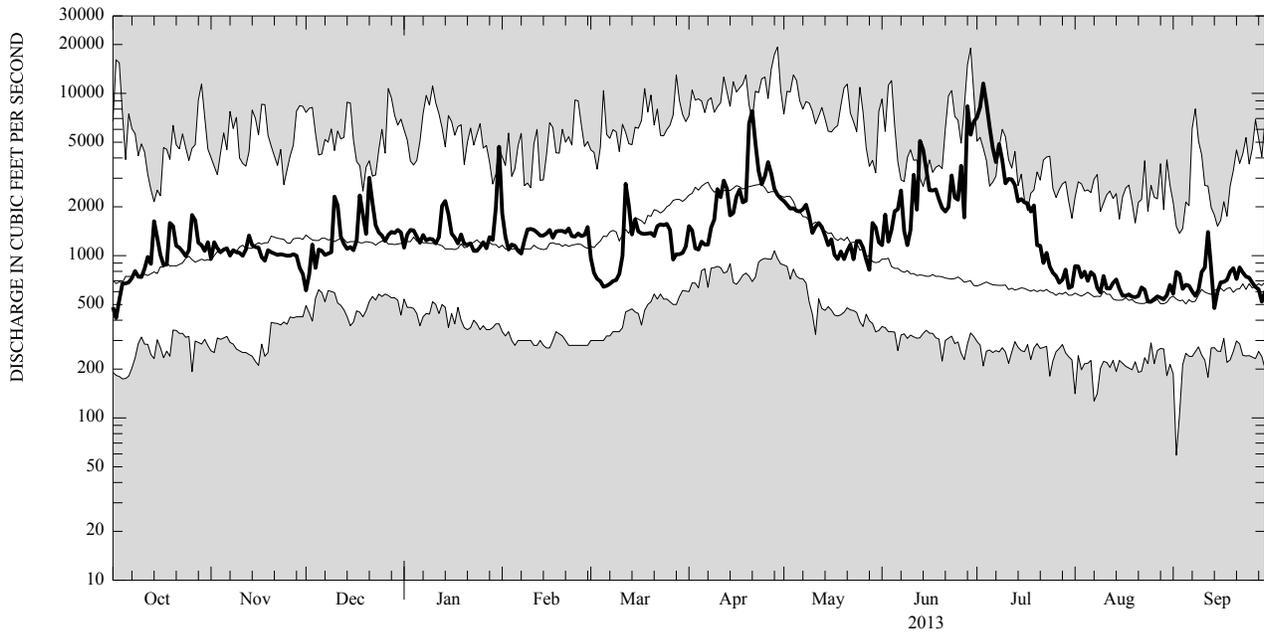
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2013, BY WATER YEAR (WY)**

|             | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Mean</b> | 1,008  | 1,364  | 1,433  | 1,373  | 1,254  | 1,896  | 2,933  | 1,848  | 1,032  | 783    | 635    | 719    |
| <b>Max</b>  | 3,131  | 3,073  | 2,835  | 3,311  | 2,704  | 3,725  | 5,623  | 4,667  | 3,875  | 2,998  | 1,481  | 2,035  |
| <b>(WY)</b> | (1946) | (2007) | (1997) | (2007) | (1981) | (1945) | (1993) | (1972) | (1972) | (2013) | (1986) | (2011) |
| <b>Min</b>  | 338    | 335    | 621    | 453    | 316    | 681    | 1,056  | 594    | 359    | 283    | 227    | 284    |
| <b>(WY)</b> | (1965) | (1965) | (1931) | (1931) | (1931) | (1940) | (1995) | (1987) | (1941) | (1941) | (1934) | (1934) |

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SUMMARY STATISTICS

|                                 | Calendar Year 2012 |        | Water Year 2013 |        | Water Years 1921 - 2013 |              |
|---------------------------------|--------------------|--------|-----------------|--------|-------------------------|--------------|
| <b>Annual total</b>             | 437,833            |        | 564,704         |        |                         |              |
| <b>Annual mean</b>              | 1,196              |        | 1,547           |        | 1,356                   |              |
| <b>Highest annual mean</b>      |                    |        |                 |        | 1,935                   | 2011         |
| <b>Lowest annual mean</b>       |                    |        |                 |        | 829                     | 1965         |
| <b>Highest daily mean</b>       | 5,010              | May 8  | 11,500          | Jul 3  | 19,300                  | Apr 29, 2011 |
| <b>Lowest daily mean</b>        | 257                | Sep 16 | 412             | Oct 2  | 59                      | Sep 2, 1929  |
| <b>Annual seven-day minimum</b> | 396                | Sep 11 | 543             | Aug 24 | 184                     | Sep 30, 2007 |
| <b>10 percent exceeds</b>       | 1,920              |        | 2,570           |        | 2,620                   |              |
| <b>50 percent exceeds</b>       | 1,120              |        | 1,190           |        | 1,030                   |              |
| <b>90 percent exceeds</b>       | 482                |        | 642             |        | 466                     |              |



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.