# 01349711 WEST KILL BELOW HUNTER BROOK NEAR SPRUCETON, NY

Upper Hudson Basin
Schoharie Subbasin

LOCATION.--Lat 42°11′06″, long 74°16′38″ referenced to North American Datum of 1927, Greene County, NY, Hydrologic Unit 02020005, on left bank 6 ft upstream from bridge on Spruceton Road, and 6.4 mi east of West Kill.

DRAINAGE AREA.--4.97 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,070 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair, and those above 500 $ft^3/s$, which are poor. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,320 $ft^3/s$, Aug. 28, 2011, gage height, 5.23 ft, from rating curve extended above 300 $ft^3/s$; minimum discharge, 0.45 $ft^3/s$, part or all of each day Sept. 19-22, 30, Oct. 1-8, 1998, Aug. 18-20, 25-26, 1999; minimum gage height, 0.50 ft, Sept. 23, 24, 25, 2005.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 $ft^3/s$ and (or) maximum (*):

| Date | Time | Discharge ($ft^3/s$) | Gage height (ft) |
|---|---|---|---|
| Oct 1 | 0235 | a2,730 | 4.64 |
| Dec 1 | 1450 | a1,220 | 3.76 |
| Mar 6 | 1920 | 150 | 2.23 |
| Mar 11 | 0705 | 464 | 2.93 |
| Apr 11 | 2335 | 111 | 2.04 |
| Apr 17 | 0210 | 238 | 2.54 |
| Apr 28 | 1055 | 167 | 2.30 |
| May 19 | 0510 | 230 | 2.51 |
| Aug 15 | 0815 | 503 | 2.98 |
| Aug 28 | 0820 | a*4,320 | *5.23 |
| Sep 7 | 0500 | 409 | 2.85 |
| Sep 28 | 1205 | 433 | 2.89 |

a From rating curve extended above 300 $ft^3/s$.

Minimum discharge, 1.6 $ft^3/s$, Aug. 13, gage height, 0.61 ft.



Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 01349711, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01349711.2011.pdf

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**DISCHARGE, CUBIC FEET PER SECOND**
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**
**DAILY MEAN VALUES**
[e, estimated]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 627 | 12 | 278 | 5.9 | 2.8 | 6.4 | 9.0 | 34 | 11 | 8.1 | 2.3 | 24 |
| 2 | 93 | 10 | 121 | 7.8 | 3.0 | 5.9 | 8.4 | 28 | 9.6 | 7.2 | 2.1 | 19 |
| 3 | 46 | 8.9 | 50 | 7.7 | 2.8 | 5.8 | 8.1 | 23 | 8.3 | 30 | 2.0 | 14 |
| 4 | 33 | 13 | 33 | 8.5 | 2.7 | 5.7 | 10 | 28 | 7.3 | 39 | 2.0 | 13 |
| 5 | 30 | 14 | 25 | 8.4 | 3.8 | 6.3 | 19 | 29 | 6.6 | 27 | 1.9 | 19 |
| 6 | 33 | 14 | 21 | 7.8 | 4.7 | 65 | 23 | 27 | 6.0 | 20 | 2.2 | 43 |
| 7 | 38 | 14 | 17 | 7.6 | 3.4 | 75 | 22 | 24 | 5.4 | 16 | 2.3 | 215 |
| 8 | 33 | 11 | 14 | 7.1 | 3.3 | 37 | 19 | 21 | 5.0 | 13 | 1.9 | 148 |
| 9 | 25 | 9.5 | e10 | 6.4 | 3.2 | 27 | 18 | 18 | 5.3 | 11 | 2.5 | 70 |
| 10 | 20 | 11 | e10 | 5.8 | 3.1 | 36 | 20 | 15 | 4.6 | 9.4 | 2.9 | 42 |
| 11 | 16 | 10 | 10 | 5.4 | 3.1 | 260 | 54 | 13 | 4.8 | 7.9 | 2.0 | 30 |
| 12 | 13 | 9.5 | 19 | 5.4 | 3.0 | 88 | 78 | 12 | 5.6 | 6.9 | 1.8 | 24 |
| 13 | 11 | 9.0 | 31 | 4.9 | 3.0 | 47 | 67 | 11 | 4.9 | 6.0 | 1.7 | 19 |
| 14 | 9.7 | 9.2 | 27 | 4.5 | 3.5 | 32 | 51 | 10 | 4.4 | 5.3 | 1.8 | 15 |
| 15 | 17 | 9.6 | 23 | e4.0 | 3.1 | 26 | 41 | 10 | 4.0 | 4.7 | 159 | 13 |
| 16 | 23 | 9.2 | 19 | e3.8 | 3.1 | 24 | 50 | 20 | 3.7 | 4.3 | 76 | 10 |
| 17 | 22 | 41 | 16 | e3.5 | 3.7 | 23 | 140 | 32 | 4.3 | 3.9 | 38 | 8.8 |
| 18 | 19 | 33 | 14 | e4.5 | 6.8 | 34 | 62 | 91 | 3.8 | 3.8 | 27 | 7.6 |
| 19 | 16 | 27 | 12 | e4.4 | 7.1 | 40 | 43 | 161 | 3.4 | 3.6 | 21 | 6.7 |
| 20 | 14 | 21 | 11 | e3.8 | 7.5 | 33 | 42 | 82 | 3.1 | 3.3 | 17 | 6.2 |
| 21 | 11 | 17 | 10 | e3.7 | 7.4 | 29 | 42 | 52 | 2.9 | 3.0 | 15 | 5.5 |
| 22 | 9.2 | 15 | 9.2 | 3.8 | 6.9 | 25 | 33 | 38 | 3.6 | 2.7 | 13 | 5.9 |
| 23 | 8.3 | 12 | 8.4 | 3.6 | 6.4 | 21 | 34 | 32 | 5.7 | 2.5 | 11 | 6.7 |
| 24 | 7.6 | 10 | 7.6 | 3.5 | 6.0 | 18 | 38 | 31 | 7.4 | 2.4 | 9.3 | 12 |
| 25 | 7.1 | 9.0 | 6.9 | 3.4 | 6.6 | 16 | 41 | 28 | 10 | 7.0 | 9.1 | 10 |
| 26 | 7.4 | 9.9 | 6.3 | 3.3 | 5.9 | 14 | 59 | 24 | 9.7 | 4.7 | 8.2 | 9.2 |
| 27 | 24 | 8.3 | e5.8 | 3.3 | 5.5 | 12 | 57 | 21 | 8.8 | 3.7 | 9.0 | 8.4 |
| 28 | 22 | 7.4 | e5.3 | 3.2 | 7.2 | 12 | 94 | 18 | 8.6 | 3.1 | 1,370 | 194 |
| 29 | 18 | 6.8 | 5.2 | 3.1 | --- | 11 | 68 | 16 | 10 | 2.9 | 120 | 179 |
| 30 | 17 | 7.1 | 4.8 | 3.0 | --- | 9.8 | 43 | 14 | 8.9 | 2.6 | 49 | 79 |
| 31 | 15 | --- | 4.7 | 2.9 | --- | 9.4 | --- | 12 | --- | 2.4 | 32 | --- |
| Total | 1,285.3 | 398.4 | 835.2 | 154.0 | 128.6 | 1,054.3 | 1,293.5 | 975 | 186.7 | 267.4 | 2,013.0 | 1,257.0 |
| Mean | 41.5 | 13.3 | 26.9 | 4.97 | 4.59 | 34.0 | 43.1 | 31.5 | 6.22 | 8.63 | 64.9 | 41.9 |
| Max | 627 | 41 | 278 | 8.5 | 7.5 | 260 | 140 | 161 | 11 | 39 | 1,370 | 215 |
| Min | 7.1 | 6.8 | 4.7 | 2.9 | 2.7 | 5.7 | 8.1 | 10 | 2.9 | 2.4 | 1.7 | 5.5 |
| Cfsm | 8.34 | 2.67 | 5.42 | 1.00 | 0.92 | 6.84 | 8.68 | 6.33 | 1.25 | 1.74 | 13.1 | 8.43 |
| In. | 9.62 | 2.98 | 6.25 | 1.15 | 0.96 | 7.89 | 9.68 | 7.30 | 1.40 | 2.00 | 15.07 | 9.41 |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2011, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 17.8 | 17.6 | 17.0 | 14.4 | 8.30 | 21.7 | 30.6 | 17.1 | 15.1 | 7.44 | 10.8 | 13.5 |
| Max | 41.5 | 35.2 | 36.1 | 30.7 | 26.0 | 46.1 | 56.9 | 37.6 | 43.9 | 21.3 | 64.9 | 41.9 |
| (WY) | (2011) | (2006) | (2004) | (2006) | (2008) | (2010) | (2001) | (1998) | (2006) | (2009) | (2011) | (2011) |
| Min | 3.60 | 3.37 | 4.45 | 3.63 | 2.01 | 3.59 | 11.6 | 8.06 | 2.94 | 1.82 | 0.88 | 0.60 |
| (WY) | (1998) | (2002) | (1999) | (2002) | (2004) | (2006) | (2006) | (2008) | (2010) | (2002) | (1999) | (1998) |

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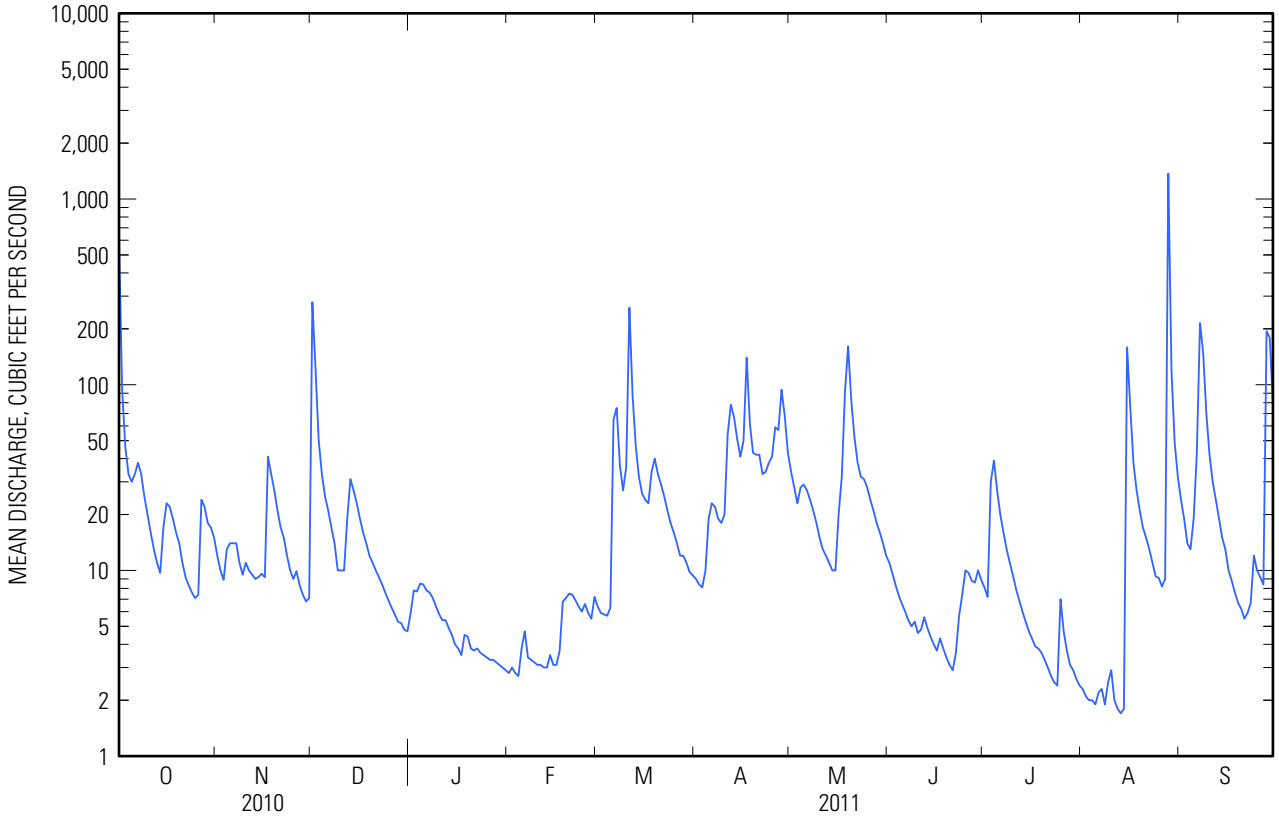
**SUMMARY STATISTICS**

| | Calendar Year 2010 | | Water Year 2011 | | Water Years 1998 - 2011 | |
|---|---|---|---|---|---|---|
| **Annual total** | 7,119.04 | | 9,848.4 | | | |
| **Annual mean** | 19.5 | | 27.0 | | 16.0 | |
| **Highest annual mean** | | | | | 27.0 | 2011 |
| **Lowest annual mean** | | | | | 7.89 | 2002 |
| **Highest daily mean** | 627 | Oct 1 | 1,370 | Aug 28 | 1,370 | Aug 28, 2011 |
| **Lowest daily mean** | 0.68 | Aug 21 | 1.7 | Aug 13 | 0.45 | Sep 20, 1998 |
| **Annual seven-day minimum** | 0.81 | Aug 15 | 2.1 | Aug 2 | 0.46 | Oct 1, 1998 |
| **Annual runoff (cfsm)** | 3.92 | | 5.43 | | 3.21 | |
| **Annual runoff (inches)** | 53.29 | | 73.71 | | 43.66 | |
| **10 percent exceeds** | 34 | | 46 | | 33 | |
| **50 percent exceeds** | 7.8 | | 10 | | 8.4 | |
| **90 percent exceeds** | 1.4 | | 3.1 | | 2.0 | |