

**01350101 SCHOHARIE CREEK AT GILBOA, NY**

Upper Hudson Basin  
Schoharie Subbasin

LOCATION.--Lat 42°23'50", long 74°27'02" referenced to North American Datum of 1983, Schoharie County, NY, Hydrologic Unit 02020005, on left bank at downstream side of bridge on State Route 990V, 0.2 mi west of village of Gilboa, 0.4 mi downstream from dam on Schoharie Reservoir, and 0.8 mi upstream from the Platter Kill.

DRAINAGE AREA.--316 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1975 to current year (since October 1983, discharges only for days of Schoharie Reservoir spill and since October 1989, discharges only for days of mean flow exceeding 10 ft<sup>3</sup>/s).

REVISED RECORDS.--WDR NY-90-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 939.56 ft above NGVD of 1929. Prior to Aug. 29, 2011, at site 200 ft upstream at same datum.

REMARKS.--Records fair. Entire flow, runoff from 315 mi<sup>2</sup>, except for periods of spill, diverted from Schoharie Reservoir through Shandaken Tunnel into Esopus Creek upstream from Ashokan Reservoir for water supply of city of New York. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 111,000 ft<sup>3</sup>/s, Aug. 28, 2011, gage height, 40.52 ft, from floodmark at site then in use, 32.34 ft, from floodmark at present site, from rating curve extended above 22,000 ft<sup>3</sup>/s on basis of flow-over-dam measurement of peak flow; minimum daily discharge, 0.04 ft<sup>3</sup>/s on many days, June to October 1976, and Sept. 11-13, 1980, but may have been lower since October 1983 (see PERIOD OF RECORD); minimum instantaneous discharge not determined.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, about 65,000 ft<sup>3</sup>/s, Oct. 16, 1955, by computation of flow over dam; flood of Mar. 18, 1936, reached a discharge of 32,000 ft<sup>3</sup>/s, from information furnished by Bureau of Water Resources Development, City of New York.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,000 ft<sup>3</sup>/s, Dec. 8, gage height, 14.49 ft; minimum discharge not determined.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**  
**DAILY MEAN VALUES**  
[e, estimated]

| Day          | Oct    | Nov    | Dec    | Jan  | Feb   | Mar  | Apr   | May   | Jun | Jul | Aug | Sep |
|--------------|--------|--------|--------|------|-------|------|-------|-------|-----|-----|-----|-----|
| 1            | 2,420  | 629    | 1,590  | 911  | 658   | 151  | ---   | 475   | 279 | --- | --- | --- |
| 2            | 2,150  | 667    | 1,130  | 854  | 663   | 150  | ---   | 389   | 98  | --- | --- | --- |
| 3            | 2,020  | 720    | 911    | 777  | 664   | e150 | ---   | 312   | 81  | --- | --- | --- |
| 4            | 1,460  | 739    | e730   | 720  | 661   | 152  | ---   | 265   | 208 | --- | --- | --- |
| 5            | 1,170  | 696    | 664    | 715  | 655   | 151  | ---   | 110   | 308 | --- | --- | --- |
| 6            | 971    | 624    | 628    | 707  | 651   | e154 | ---   | ---   | 313 | --- | --- | --- |
| 7            | 816    | 568    | 953    | 704  | 648   | e154 | ---   | ---   | 335 | --- | --- | --- |
| 8            | 699    | 511    | 3,450  | 701  | 643   | e155 | ---   | ---   | 296 | --- | --- | --- |
| 9            | e654   | 455    | 2,150  | ---  | 509   | 163  | ---   | ---   | 261 | --- | --- | --- |
| 10           | 643    | 390    | 1,570  | ---  | 310   | 168  | ---   | 286   | 186 | --- | --- | --- |
| 11           | 641    | 460    | 1,240  | ---  | e310  | 172  | ---   | 167   | 79  | --- | --- | --- |
| 12           | 634    | 475    | 1,030  | ---  | e310  | 221  | ---   | ---   | 41  | --- | --- | --- |
| 13           | e626   | 451    | 883    | 680  | 304   | 440  | ---   | ---   | 39  | --- | --- | --- |
| 14           | 736    | 413    | 781    | 678  | 304   | 519  | ---   | ---   | 133 | --- | --- | --- |
| 15           | 2,300  | 366    | 802    | 676  | 303   | 523  | ---   | ---   | 167 | --- | --- | --- |
| 16           | 1,570  | 328    | e979   | 664  | 303   | 495  | ---   | 1,250 | 72  | --- | --- | --- |
| 17           | 954    | 349    | 876    | 650  | 207   | 522  | ---   | 344   | 27  | --- | --- | --- |
| 18           | 826    | 367    | 718    | 638  | 151   | 526  | ---   | 112   | --- | --- | --- | --- |
| 19           | 752    | 321    | 568    | 642  | 151   | 526  | ---   | 58    | --- | --- | --- | --- |
| 20           | 1,150  | e287   | 564    | 631  | 149   | 525  | ---   | 127   | --- | --- | --- | --- |
| 21           | 1,370  | 266    | e550   | 624  | 151   | 525  | ---   | 136   | --- | --- | --- | --- |
| 22           | 1,040  | e247   | e675   | 614  | e148  | 611  | ---   | 264   | --- | --- | --- | --- |
| 23           | 855    | e1,580 | 894    | 599  | 149   | 693  | ---   | 781   | --- | --- | --- | --- |
| 24           | 705    | 1,890  | 992    | 597  | 150   | 690  | 2,060 | 701   | --- | --- | --- | --- |
| 25           | 629    | 1,290  | 780    | e600 | e148  | 686  | 1,580 | 685   | --- | --- | --- | --- |
| 26           | e578   | 1,030  | 694    | 596  | 150   | 506  | 1,140 | 651   | --- | --- | --- | --- |
| 27           | e594   | 846    | 755    | e604 | 151   | ---  | 736   | 533   | --- | --- | --- | --- |
| 28           | 741    | 730    | 1,850  | 638  | 149   | ---  | 665   | 452   | --- | --- | --- | --- |
| 29           | 701    | 679    | 1,440  | 652  | 152   | ---  | 626   | 389   | --- | --- | --- | --- |
| 30           | 688    | 1,940  | 1,170  | 658  | ---   | ---  | 537   | 365   | --- | --- | --- | --- |
| 31           | 646    | ---    | 1,070  | 658  | ---   | ---  | ---   | 334   | --- | --- | --- | --- |
| <b>Total</b> | 31,739 | 20,314 | 33,087 | ---  | 9,902 | ---  | ---   | ---   | --- | --- | --- | --- |
| <b>Mean</b>  | 1,024  | 677    | 1,067  | ---  | 341   | ---  | ---   | ---   | --- | --- | --- | --- |
| <b>Max</b>   | 2,420  | 1,940  | 3,450  | ---  | 664   | ---  | ---   | ---   | --- | --- | --- | --- |
| <b>Min</b>   | 578    | 247    | 550    | ---  | 148   | ---  | ---   | ---   | --- | --- | --- | --- |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1983, BY WATER YEAR (WY)**

|             | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Mean</b> | 274    | 339    | 312    | 341    | 385    | 1,167  | 1,377  | 691    | 191    | 32.8   | 0.35   | 2.92   |
| <b>Max</b>  | 1,519  | 1,591  | 1,484  | 1,543  | 1,536  | 2,684  | 2,739  | 1,264  | 922    | 207    | 0.60   | 21.1   |
| <b>(WY)</b> | (1978) | (1978) | (1978) | (1979) | (1976) | (1979) | (1983) | (1976) | (1982) | (1976) | (1977) | (1977) |
| <b>Min</b>  | 0.12   | 0.27   | 0.22   | 0.29   | 0.43   | 15.7   | 0.48   | 0.64   | 0.36   | 0.38   | 0.04   | 0.04   |
| <b>(WY)</b> | (1983) | (1983) | (1983) | (1983) | (1982) | (1981) | (1981) | (1981) | (1981) | (1980) | (1976) | (1976) |

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SUMMARY STATISTICS

| Water Years 1976 - 1983  |        |              |
|--------------------------|--------|--------------|
| Annual mean              | 426    |              |
| Highest annual mean      | 795    | 1978         |
| Lowest annual mean       | 54.1   | 1981         |
| Highest daily mean       | 15,300 | Mar 22, 1980 |
| Lowest daily mean        | 0.04   | Jun 6, 1976  |
| Annual seven-day minimum | 0.04   | Jul 18, 1976 |
| 10 percent exceeds       | 1,270  |              |
| 50 percent exceeds       | 0.80   |              |
| 90 percent exceeds       | 0.13   |              |

