

01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, NY

Upper Hudson Basin
Schoharie Subbasin

LOCATION.--Lat 42°27'57", long 74°27'45" referenced to North American Datum of 1927, Schoharie County, NY, Hydrologic Unit 02020005, on left bank 2,300 ft upstream from West Kill, and 1.2 mi upstream from bridge on State Highway 30 in North Blenheim.

DRAINAGE AREA.--358 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional measurements, water years 1969-70. October 1970 to current year (January 20 to September 30, 1996, discharges only for days of mean flow less than or equal to 400 ft³/s).

REVISED RECORDS.--WDR NY-87-1: 1984(M). WDR NY-90-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 800 ft above NGVD of 1929, from topographic map. Prior to Oct. 1, 1971, at datum 1.00 ft higher.

COOPERATION.--Records of flow greater than 6,000 ft³/s provided by the New York Power Authority.

REMARKS.--Records fair. Regulation of flow by New York Power Authority Blenheim-Gilboa Pumped Storage Project immediately upstream from gage. Entire flow, runoff from 315 mi², 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. For days of reservoir outflow greater than 10 ft³/s, see station 01350101. From January 19, 1996, through September 30, 1998, if flow was greater than about 400 ft³/s, undetermined amounts of flow bypassed the gage. From October 1, 1998, through September 30, 2000, if flow was greater than about 2,000 ft³/s, undetermined amounts of flow bypassed the gage. From October 1, 2000, through September 30, 2006, if flow was greater than about 5,000 ft³/s, undetermined amounts of flow bypassed the gage. Since October 1, 2006, if flow is greater than about 6,000 ft³/s, undetermined amounts of flow bypass the gage. Since October 1996, records for periods when flows bypass the gage are furnished by the New York Power Authority. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 75,600 ft³/s, Jan. 19, 1996, gage height, 17.16 ft, outside gage height was 17.61 ft, from floodmark, from rating curve extended above 12,000 ft³/s on basis of computation of peak flow through radial gates at gage heights 13.34 ft, 14.72 ft, and 16.70 ft from floodmarks; minimum, no flow, Oct. 12, 15, Oct. 16 to Nov. 1, Nov. 2, 1972, Sept. 12, 13, 14, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,200 ft³/s, Mar. 5, from New York Power Authority, gage height, 10.97 ft, outside gage height was 11.19 ft, from crest-stage gage; minimum discharge, 5.8 ft³/s, Nov. 4, gage height, 0.85 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.4	10	49	934	345	700	2,310	376	14	11	13	11
2	8.4	8.6	42	776	389	657	2,840	480	13	10	12	11
3	8.4	6.6	70	635	332	702	1,890	285	13	10	11	11
4	8.4	6.8	89	664	299	1,170	1,630	428	13	10	11	12
5	8.4	7.7	77	682	599	9,120	2,090	479	12	9.8	11	13
6	8.4	9.1	59	627	1,790	5,850	1,790	338	13	11	12	32
7	8.5	8.6	35	904	4,870	3,690	1,490	269	14	11	12	30
8	14	8.8	34	1,410	2,940	6,130	1,180	352	14	12	12	20
9	127	8.9	32	2,600	1,980	8,250	1,190	225	14	11	12	13
10	61	9.0	64	2,540	1,510	3,190	1,130	176	13	11	11	12
11	36	8.5	52	2,510	910	2,140	1,120	215	12	9.9	12	12
12	45	11	136	2,170	839	1,640	1,160	174	12	9.2	11	e50
13	34	13	158	1,760	1,190	1,290	1,240	34	11	11	11	e300
14	34	13	74	1,420	2,710	1,090	1,240	25	12	10	11	e300
15	33	23	65	1,220	1,710	1,210	1,040	25	12	9.3	12	e330
16	33	17	47	1,090	1,200	1,240	794	26	12	10	11	364
17	20	13	55	855	1,010	1,030	765	27	11	11	11	374
18	9.3	13	61	831	3,960	911	662	26	13	12	10	371
19	10	13	60	794	4,090	1,040	623	21	15	13	11	372
20	32	16	57	663	2,150	2,690	522	11	15	13	11	42
21	34	15	329	598	1,350	2,090	473	11	15	13	11	34
22	34	15	487	660	1,100	1,500	51	13	14	12	12	17
23	19	14	867	690	880	1,080	43	16	14	122	13	7.5
24	17	14	834	585	858	999	134	16	13	371	12	8.9
25	35	13	854	599	815	893	155	15	13	246	12	7.4
26	35	28	1,340	516	781	771	198	15	13	39	12	8.4
27	149	279	1,180	614	764	824	191	16	13	117	11	7.6
28	109	246	1,070	438	724	837	320	16	11	122	11	8.4
29	67	224	1,000	264	650	918	715	16	11	28	12	14
30	28	131	1,140	347	---	802	577	16	11	14	13	14
31	11	---	1,070	359	---	987	---	14	---	13	12	---
Total	1,085.2	1,203.6	11,487	30,755	42,745	65,441	29,563	4,156	386	1,312.2	359	2,807.2
Mean	35.0	40.1	371	992	1,474	2,111	985	134	12.9	42.3	11.6	93.6
Max	149	279	1,340	2,600	4,870	9,120	2,840	480	15	371	13	374
Min	8.4	6.6	32	264	299	657	43	11	11	9.2	10	7.4

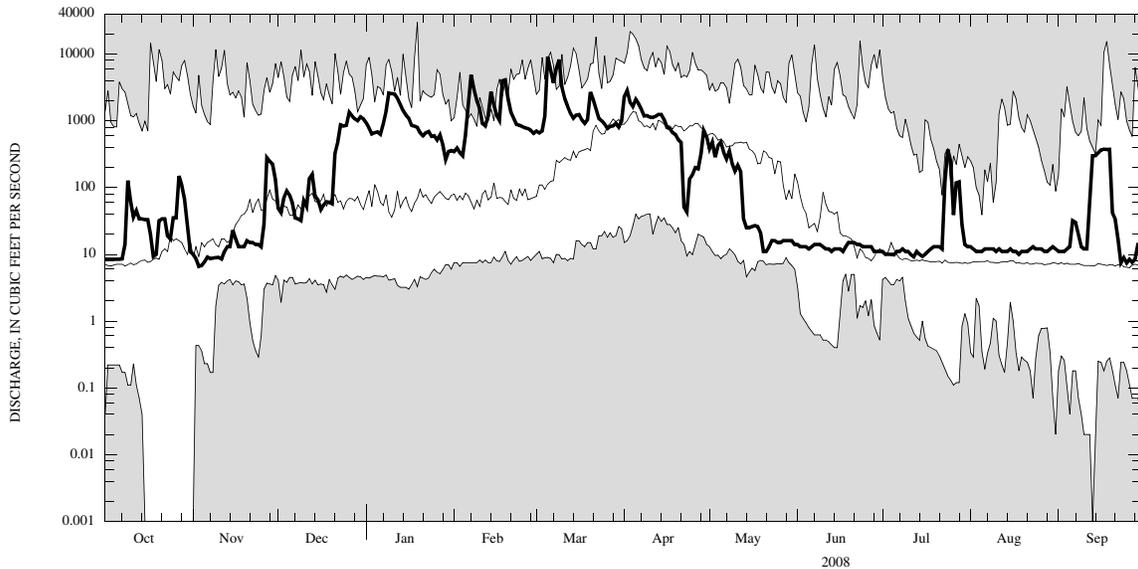
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	217	310	404	395	358	915	1,354	616	311	61.2	33.6	115
Max	1,474	1,511	1,977	1,610	1,474	2,532	3,685	1,599	1,561	452	447	1,442
(WY)	(1978)	(1978)	(2004)	(1979)	(2008)	(1979)	(1987)	(1984)	(1972)	(1973)	(2004)	(2004)
Min	0.15	3.85	4.35	5.23	15.5	47.6	42.9	16.8	8.26	6.83	1.53	0.25
(WY)	(1973)	(1999)	(1999)	(2002)	(1987)	(1989)	(1981)	(1995)	(1999)	(1977)	(1973)	(1973)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1971 - 2008	
Annual total	183,832.7		191,300.2			
Annual mean	504		523		422	
Highest annual mean					834	1978
Lowest annual mean					21.7	1985
Highest daily mean	13,200	Apr 16	9,120	Mar 5	29,900	Jan 19, 1996
Lowest daily mean	6.6	Nov 3	6.6	Nov 3	0.00	Oct 15, 1972
Annual seven-day minimum	8.0	Nov 2	8.0	Nov 2	0.00	Oct 15, 1972
10 percent exceeds	1,300		1,340		1,140	
50 percent exceeds	40		42		35	
90 percent exceeds	10		11		5.2	



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.
 ZERO OR NEGATIVE FLOWS ARE PLOTTED AS 0.001 DISCHARGE, WHICH MAY INCLUDE THE LOWEST DAILY MEAN FOR PERIOD OF RECORD.