

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.--No estimated daily discharges. 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, 22,900 ft³/s, Mar. 23, gage height, 12.49 ft; minimum discharge, 8.1 ft³/s, Aug. 14, 20, 21, gage height, 0.91 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	13	830	294	444	636	354	7,790	235	16	12	11	12
2	13	721	466	462	572	374	5,670	285	17	12	11	10
3	14	537	1,430	451	496	362	5,390	269	17	11	10	10
4	13	526	1,770	385	538	325	4,820	206	18	11	9.3	10
5	14	435	1,170	462	418	384	3,520	190	18	11	11	9.6
6	14	358	859	313	450	272	2,670	239	40	12	9.9	9.9
7	14	239	785	388	466	382	2,300	199	82	12	9.5	11
8	14	126	656	436	342	429	1,940	58	73	12	9.8	9.6
9	14	116	607	415	420	422	1,880	30	46	12	11	9.4
10	14	67	677	422	423	411	1,760	30	45	15	11	9.2
11	14	18	594	396	392	457	1,280	30	41	12	10	9.2
12	14	21	567	417	413	487	1,110	30	65	11	10	9.3
13	14	40	622	364	388	559	787	31	125	11	9.6	9.3
14	14	36	738	391	363	726	812	71	144	11	9.2	9.3
15	14	42	691	437	364	906	624	85	58	11	11	9.6
16	14	164	844	363	371	3,780	615	68	46	12	12	9.8
17	14	188	711	410	398	3,440	754	35	65	12	11	9.7
18	14	127	518	414	413	3,300	623	19	55	15	11	9.6
19	14	67	566	394	410	3,540	570	15	40	15	11	9.3
20	14	601	654	396	377	4,340	470	24	33	15	9.0	11
21	14	1,210	539	382	368	5,420	495	41	23	15	8.9	9.9
22	14	794	622	369	367	7,330	433	67	13	15	13	9.9
23	15	649	554	414	388	17,400	378	54	13	20	76	9.2
24	83	482	548	381	390	9,390	231	18	13	78	129	9.7
25	102	554	582	3,860	409	5,700	183	13	12	74	76	10
26	29	422	577	8,480	435	4,020	252	13	12	15	58	11
27	12	395	656	4,110	410	2,650	459	13	12	13	48	11
28	14	395	701	1,810	367	2,100	500	13	12	12	30	10
29	12	401	588	1,120	---	2,500	394	13	13	12	16	9.8
30	10	346	501	737	---	6,740	265	12	12	12	10	13
31	257	---	440	586	---	11,700	---	13	---	12	11	---
Total	839	10,907	21,527	30,409	11,784	100,200	48,975	2,419	1,179	523	683.2	300.3
Mean	27.1	364	694	981	421	3,232	1,632	78.0	39.3	16.9	22.0	10.0
Max	257	1,210	1,770	8,480	636	17,400	7,790	285	144	78	129	13
Min	10	18	294	313	342	272	183	12	12	11	8.9	9.2

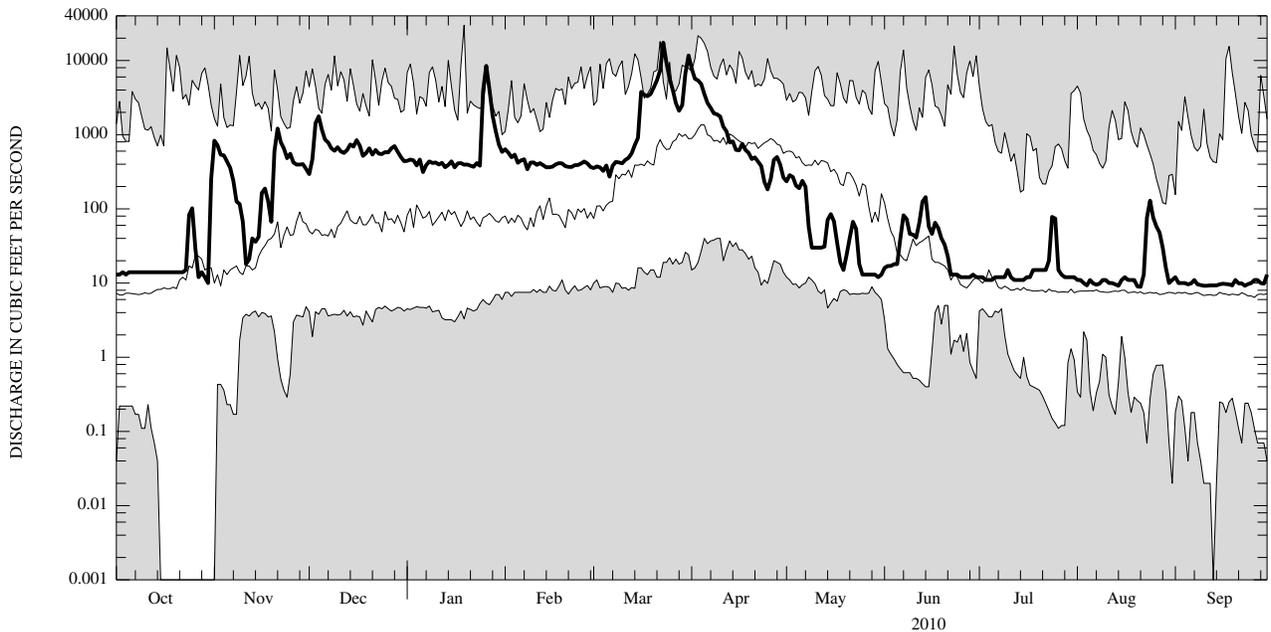
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	207	319	427	406	360	967	1,336	589	316	74.7	46.6	113
Max	1,474	1,511	1,977	1,610	1,474	3,232	3,685	1,599	1,561	631	566	1,442
(WY)	(1978)	(1978)	(2004)	(1979)	(2008)	(2010)	(1987)	(1984)	(1972)	(2009)	(2009)	(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 2009		Water Year 2010		Water Years 1971 - 2010	
Annual total	147,916.9		229,745.5			
Annual mean	405		629		428	
Highest annual mean					834	1978
Lowest annual mean					21.7	1985
Highest daily mean	4,700	Jun 21	17,400	Mar 23	29,900	Jan 19, 1996
Lowest daily mean	6.7	Sep 10	8.9	Aug 21	0.00	Oct 15, 1972
Annual seven-day minimum	11	Sep 20	9.3	Sep 8	0.00	Oct 15, 1972
10 percent exceeds	850		1,110		1,140	
50 percent exceeds	216		126		37	
90 percent exceeds	14		10		5.4	



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.