Water-Data Report 2012

01351500 SCHOHARIE CREEK AT BURTONSVILLE, NY

Upper Hudson Basin
Schoharie Subbasin

LOCATION.--Lat 42°48′00″, long 74°15′46″ referenced to North American Datum of 1983, Schenectady County, NY, Hydrologic Unit 02020005, on right bank 0.4 mi south of Burtonsville, 3.3 mi north (downstream) of Esperance, and about 15 mi upstream from mouth.

DRAINAGE AREA.--886 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WDR NY-82-1: 1981(average discharge). WDR NY-90-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 507.98 ft above NGVD of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated to some extent by Blenheim-Gilboa Pumped Storage Project about 37 mi upstream. Entire flow, runoff from 315 mi^2, 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 ft^3/s, see station 01350101. Satellite and telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 128,000 ft^3/s, Aug. 29, 2011, gage height, 17.46 ft, from floodmark in gage house, from rating curve extended above 75,000 ft^3/s on basis of runoff comparison of peak flows from contracted-opening and flow-over-road measurement and slope-area measurement at site 3.3 mi upstream; minimum discharge, 2.4 ft^3/s, Sept. 24, 25, 1964, gage height, 0.30 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of March 1936 and September 1938 reached stages of 10.5 and 10.2 ft, respectively, from information provided by local resident. However, flood of October 1903 is known to have reached a higher stage than the 1936 or 1938 flood.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,410 ft^3/s, Jan. 27, gage height, 3.76 ft; minimum discharge, 18 ft^3/s, Sept. 17, 18, gage height, 0.58 ft.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 01351500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/01351500.2012.pdf

01351500 SCHOHARIE CREEK AT BURTONSVILLE, NY—Continued

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	4,720	2,300	2,360	2,840	2,570	559	383	1,350	676	57	92	32
2	4,300	2,260	2,290	2,690	2,880	623	426	1,320	636	52	132	27
3	5,750	2,260	884	2,350	2,100	862	379	1,320	634	48	154	23
4	3,860	2,220	709	1,880	1,960	1,510	315	1,340	447	47	100	21
5	3,050	2,060	3,670	2,030	1,670	1,100	310	1,210	445	45	79	22
6	e2,600	1,780	2,890	1,980	1,570	773	283	842	561	42	84	20
7	2,180	1,600	3,380	1,840	1,590	877	266	612	537	39	76	e20
8	1,810	1,440	6,510	1,510	1,370	2,540	249	2,920	581	37	72	e20
9	1,610	1,350	5,010	1,390	e1,200	4,510	226	3,080	537	36	60	e20
10	1,410	1,270	3,560	941	1,000	2,540	226	1,760	481	35	52	e21
11	1,390	1,230	2,850	593	903	1,850	223	1,530	434	34	47	23
12	1,260	e1,200	2,460	585	753	1,720	209	1,070	303	33	46	23
13	1,440	1,120	2,150	1,190	726	1,900	198	777	252	32	48	23
14	2,080	1,080	2,020	1,580	762	2,210	197	710	237	38	46	22
15	3,690	1,080	2,030	1,120	711	1,900	197	2,860	201	45	46	21
16	3,520	1,010	2,730	1,240	712	1,970	191	4,490	252	46	44	19
17	2,890	977	2,400	1,390	783	1,930	183	2,410	219	42	43	18
18	2,070	959	1,870	e1,850	675	1,710	177	1,540	165	38	42	23
19	1,910	921	1,430	e1,450	588	1,520	177	1,070	159	35	39	112
20	2,060	842	1,250	e1,260	525	1,500	177	872	138	33	39	215
21	2,670	670	1,460	e1,120	477	1,390	171	719	112	32	39	126
22	2,350	669	2,990	e1,120	e470	1,230	336	877	98	29	49	86
23	1,980	5,010	3,650	e1,150	524	1,340	4,070	1,190	85	27	37	72
24	1,670	4,890	3,350	1,850	539	1,340	3,620	1,520	81	31	33	67
25	1,410	3,440	3,050	2,140	784	1,300	3,620	1,280	78	33	29	57
26	1,360	2,850	2,770	1,610	685	1,200	2,720	1,200	78	38	25	51
27	1,850	2,360	2,290	4,580	473	952	2,110	994	77	42	23	47
28	2,940	2,050	3,520	4,540	569	599	1,570	772	73	46	32	76
29	2,690	1,070	2,840	2,880	535	476	1,490	768	69	118	45	186
30	2,400	1,370	2,230	2,390	---	416	1,300	1,040	63	150	42	222
31	2,440	---	2,550	2,140	---	367	---	823	---	118	36	---
Total	77,360	53,338	83,153	57,229	30,104	44,714	25,999	44,266	8,709	1,478	1,731	1,715
Mean	2,495	1,778	2,682	1,846	1,038	1,442	867	1,428	290	47.7	55.8	57.2
Max	5,750	5,010	6,510	4,580	2,880	4,510	4,070	4,490	676	150	154	222
Min	1,260	669	709	585	470	367	171	612	63	27	23	18

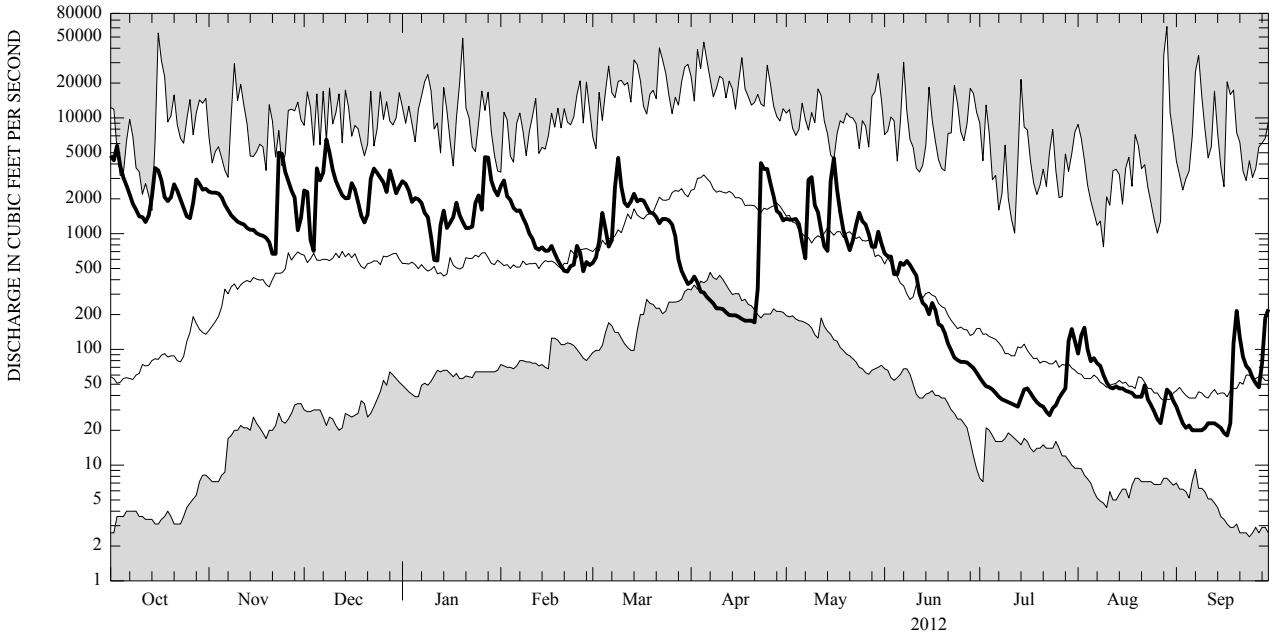
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	554	867	1,140	1,115	1,103	2,567	3,111	1,520	734	274	216	292
Max	5,181	3,414	4,753	5,089	4,069	8,194	8,446	4,045	4,171	2,312	4,067	5,080
(WY)	(1956)	(1978)	(1997)	(1996)	(1976)	(2010)	(1993)	(1984)	(2006)	(1996)	(2011)	(2011)
Min	4.07	22.4	58.8	71.3	108	525	356	140	48.8	19.4	8.26	4.90
(WY)	(1965)	(2002)	(1999)	(1981)	(1940)	(1981)	(1946)	(1941)	(1964)	(1959)	(1965)	(1964)

01351500 SCHOHARIE CREEK AT BURTONSVILLE, NY—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1940 - 2012	
Annual total	1,014,341		429,796			
Annual mean	2,779		1,174		1,123	
Highest annual mean					2,867	2011
Lowest annual mean					320	1965
Highest daily mean	61,500	Aug 29	6,510	Dec 8	61,500	Aug 29, 2011
Lowest daily mean	73	Aug 14	18	Sep 17	2.4	Sep 24, 1964
Annual seven-day minimum	101	Aug 9	21	Sep 4	2.6	Sep 21, 1964
10 percent exceeds	5,370		2,850		2,830	
50 percent exceeds	1,620		852		380	
90 percent exceeds	378		37		34	



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.