Water-Data Report 2011

01329490 BATTEN KILL BELOW MILL AT BATTENVILLE, NY

Upper Hudson Basin
Hudson-Hoosic Subbasin

LOCATION.--Lat 43°06′31″, long 73°25′20″ referenced to North American Datum of 1927, Washington County, NY, Hydrologic Unit 02020003, on right bank downstream from bridge on County Highway 61, 1.8 mi downstream from Whitaker Brook, and 2.0 mi upstream from Trout Brook, at Battenville.

DRAINAGE AREA.--396 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September to December 1908 (gage heights only), October 1922 to September 1968, October 1986 to March 1998 (annual maximum only), April 1998 to current year. Prior to October 2003, published as "Batten Kill at Battenville" (01329500).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 373.10 ft above NGVD of 1929. Prior to October 1922, staff and chain gages at site 0.25 mi upstream at different datum. October 1922 to October 10, 2003, at site 0.75 mi downstream at datum 4.01 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Regulation at low and medium flows prior to 1982. Satellite and telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,300 ft^3/s, Nov. 4, 1927, gage height, 17.7 ft, from floodmarks, site and datum then in use; minimum discharge, 7.3 ft^3/s, Oct. 5, 1953 (result of regulation).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,100 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 7	1100	6,690	9.38
Mar 12	0415	4,610	8.34
Mar 19	0900	5,030	8.57
Aug 29	0845	*15,200	*14.27
Sep 8	1730	6,690	9.38

Minimum discharge, 176 ft^3/s, Aug. 14, gage height, 4.18 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 01329490, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01329490.2011.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	1,670	1,120	836	557	e583	e701	1,000	1,750	670	850	265	2,460
2	2,340	980	2,460	771	e849	e632	1,040	1,490	648	715	237	1,840
3	965	887	1,880	967	e920	e580	994	1,330	585	657	225	1,480
4	547	915	1,350	826	e900	e570	1,000	1,590	533	662	217	1,310
5	434	1,590	1,160	750	e861	641	1,480	2,210	496	578	206	2,740
6	390	1,490	1,030	659	e1,160	2,640	2,160	2,060	471	508	196	4,130
7	653	1,180	941	648	e1,130	6,330	1,770	1,700	444	569	297	4,690
8	724	1,090	854	616	e998	4,610	1,540	1,490	411	528	307	6,340
9	543	1,070	755	592	e874	3,270	1,430	1,320	456	677	244	5,450
10	450	1,070	685	550	e824	2,610	1,490	1,170	692	572	219	3,550
11	393	1,020	692	530	e800	3,340	2,020	1,050	597	467	205	2,480
12	352	941	687	499	e812	4,400	3,460	935	872	417	191	1,980
13	320	894	2,020	e506	e806	3,560	3,620	839	688	387	184	1,650
14	298	842	2,080	e517	e849	2,930	3,070	775	595	465	179	1,400
15	999	796	1,390	e488	e914	2,520	2,520	869	575	427	263	1,270
16	2,840	753	1,170	e484	e790	2,520	1,920	1,540	481	363	1,190	1,250
17	2,000	957	1,020	e484	e734	2,790	2,250	1,550	444	330	865	1,080
18	1,370	1,410	956	e495	e776	3,560	2,430	1,360	546	319	499	970
19	1,060	1,040	865	e618	e977	4,810	1,870	1,540	524	415	373	868
20	874	901	811	e583	e810	3,970	1,630	1,990	436	345	321	813
21	772	819	761	e537	e730	3,110	1,640	2,090	376	306	323	803
22	729	766	723	e484	e654	2,640	1,390	2,020	405	282	1,310	849
23	639	756	704	e457	e646	2,210	1,370	1,700	1,840	264	926	1,060
24	573	754	665	e450	e630	1,890	1,650	1,600	2,260	250	636	1,110
25	550	688	618	e500	e625	1,650	1,730	1,830	1,350	252	498	976
26	1,950	751	e577	e555	e594	1,420	2,310	1,400	1,200	438	579	839
27	2,890	828	e437	e601	e550	1,290	2,810	1,190	978	325	496	749
28	2,840	709	e558	e561	e575	1,170	2,660	1,060	808	273	3,230	710
29	1,950	662	e600	e522	---	1,100	2,890	933	1,280	253	13,700	1,100
30	1,580	634	e556	e481	---	1,010	2,220	829	1,070	353	8,390	2,550
31	1,320	---	e538	e463	---	987	---	739	---	322	4,040	---
Total	35,015	28,313	30,379	17,751	22,371	75,461	59,364	43,949	22,731	13,569	40,811	58,497
Mean	1,130	944	980	573	799	2,434	1,979	1,418	758	438	1,316	1,950
Max	2,890	1,590	2,460	967	1,160	6,330	3,620	2,210	2,260	850	13,700	6,340
Min	298	634	437	450	550	570	994	739	376	250	179	710
Cfsm	2.85	2.38	2.47	1.45	2.02	6.15	5.00	3.58	1.91	1.11	3.32	4.92
In.	3.29	2.66	2.85	1.67	2.10	7.09	5.58	4.13	2.14	1.27	3.83	5.50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	384	657	752	766	688	1,242	1,741	987	546	371	284	297
Max	1,721	2,498	1,894	2,016	1,839	3,718	3,535	2,141	1,167	1,874	1,316	1,950
(WY)	(2006)	(1928)	(2009)	(1949)	(2008)	(1936)	(1960)	(1940)	(1954)	(1935)	(2011)	(2011)
Min	74.7	108	192	142	214	291	582	302	162	96.1	85.2	66.9
(WY)	(1965)	(1965)	(1948)	(1948)	(1931)	(1965)	(1946)	(1941)	(1964)	(1965)	(1965)	(1964)

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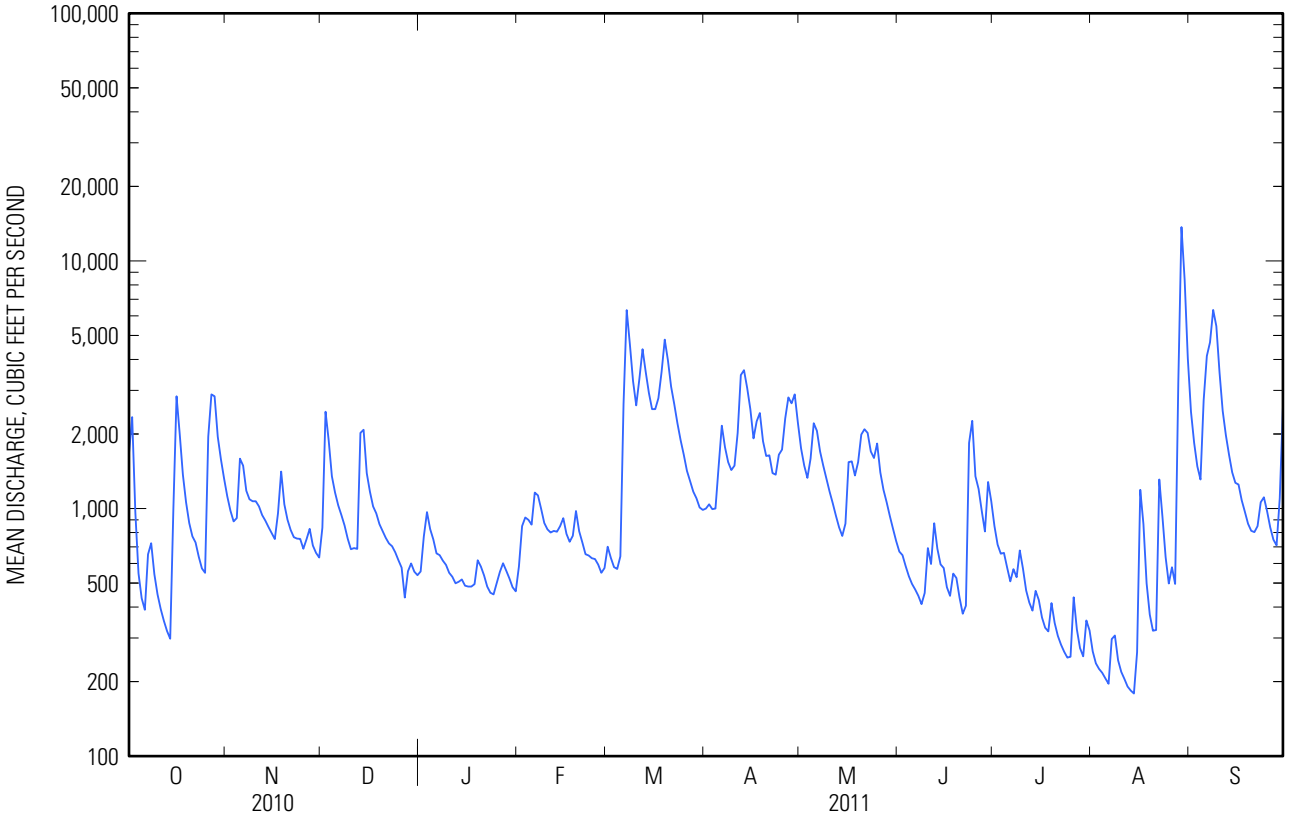
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1923 - 2011	
Annual total	279,452		448,211			
Annual mean	766		1,228		726	
Highest annual mean					1,228	2011
Lowest annual mean					335	1965
Highest daily mean	5,060	Jan 26	13,700	Aug 29	18,000	Nov 4, 1927
Lowest daily mean	88	Sep 26	179	Aug 14	48	Aug 31, 1953
Annual seven-day minimum	95	Sep 21	212	Aug 9	58	Sep 21, 1964
Annual runoff (cfsm)	1.93		3.10		1.83	
Annual runoff (inches)	26.25		42.10		24.91	
10 percent exceeds	1,830		2,520		1,620	
50 percent exceeds	556		849		450	
90 percent exceeds	137		383		146