Water-Data Report 2012

04252500 BLACK RIVER NEAR BOONVILLE, NY

Northeastern Lake Ontario Basin
Black Subbasin

LOCATION.--Lat 43°30′42″, long 75°18′24″ referenced to North American Datum of 1983, Oneida County, NY, Hydrologic Unit 04150101, on left bank at downstream side of bridge on Moose River Road, 0.8 mi upstream from Sugar River, and 2 mi northeast of Boonville.

DRAINAGE AREA.--304 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January to February 1911 (monthly discharges only, published in WSP 1307), March 1911 to current year.

REVISED RECORDS.--WSP 784: 1934. WSP 1084: 1912(M), 1913, 1917-1919(M), 1922(M), 1924(M), 1926(M), 1928)M), 1930(M), 1933(M). WSP 1307: 1914(M). WDR NY-82-1: Drainage area. WDR NY-05-1: 2004.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 935.50 ft above NGVD of 1929. Prior to Sept. 27, 1933, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Occasional regulation by several headwater reservoirs. Forestport feeder diverts water from State Pond at Forestport 9 mi upstream. That portion of diverted water which does not pass Black River Canal (flowing south), returns to Black River downstream from station through Mill Creek sluiceway. Slight diurnal fluctuation at medium and low flow caused by powerplant upstream from station. Satellite and telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,800 ft^3/s, Apr. 18, 1982, Dec. 30, 1984, gage heights, 11.31 ft and 11.41 ft, respectively; maximum gage height, 13.10 ft, Feb. 21, 1981 (ice jam); minimum observed discharge, about 5 ft^3/s, Aug. 26, 1918, gage height, 2.40 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,900 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 17	0615	*3,260	*7.85

Minimum discharge, 77 ft^3/s, Aug. 27, gage height, 3.35 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 04252500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/04252500.2012.pdf

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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	726	654	1,520	971	1,080	448	720	784	570	181	213	133
2	669	586	1,270	1,170	e1,150	440	696	880	1,000	172	157	123
3	751	535	1,050	964	1,060	561	643	1,040	1,020	164	142	96
4	664	512	868	747	e958	704	597	1,010	883	161	136	138
5	557	466	829	805	784	521	573	933	981	158	134	254
6	476	431	995	806	e751	399	536	799	762	165	193	219
7	419	422	1,160	786	e690	510	509	640	817	150	197	149
8	389	430	1,010	750	605	827	483	1,090	606	148	142	150
9	367	536	902	661	e610	1,620	485	2,530	476	143	134	146
10	356	452	822	649	e581	1,520	482	2,120	494	139	243	152
11	358	662	772	623	e502	1,150	448	1,550	437	139	369	127
12	338	697	693	e618	439	1,060	454	1,100	411	139	335	116
13	452	626	636	e613	530	1,320	410	850	847	137	274	119
14	601	508	665	e613	516	1,830	385	799	752	135	213	134
15	1,820	781	827	622	528	1,900	377	972	483	132	316	162
16	2,730	786	1,310	667	492	2,540	558	1,490	361	141	248	151
17	2,320	800	1,380	e723	524	3,150	480	1,300	301	159	190	143
18	1,780	781	940	e733	506	2,740	410	965	265	268	147	339
19	1,310	728	872	e713	461	2,640	363	727	265	203	144	953
20	1,140	695	e812	e661	435	2,680	349	617	262	144	139	561
21	1,150	800	e783	e606	417	2,160	330	506	268	134	136	288
22	1,150	614	e898	e560	490	1,760	644	480	278	134	128	266
23	1,050	1,370	e1,020	e666	567	1,470	1,450	815	190	133	120	313
24	930	1,770	e941	e801	566	1,260	2,050	864	294	272	105	276
25	1,070	1,320	820	e910	599	1,160	1,730	537	321	194	111	221
26	1,050	961	e768	895	467	952	1,410	449	300	150	103	199
27	1,180	795	e750	e1,200	478	854	1,270	367	266	204	107	193
28	1,250	1,010	e889	e1,970	480	821	1,090	316	210	178	155	182
29	1,110	1,060	e987	2,300	438	855	932	454	241	143	180	203
30	893	1,370	e978	1,710	---	793	759	969	202	142	153	200
31	801	---	948	1,130	---	741	---	697	---	138	144	---
Total	29,857	23,158	29,115	27,643	17,704	41,386	21,623	28,650	14,563	5,000	5,508	6,706
Mean	963	772	939	892	610	1,335	721	924	485	161	178	224
Max	2,730	1,770	1,520	2,300	1,150	3,150	2,050	2,530	1,020	272	369	953
Min	338	422	636	560	417	399	330	316	190	132	103	96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	591	776	762	674	583	1,047	1,882	983	534	368	301	387
Max	1,996	1,979	1,759	1,837	1,410	2,394	3,313	2,402	1,707	1,263	923	1,157
(WY)	(2007)	(2007)	(1974)	(1913)	(1981)	(1921)	(1993)	(1972)	(1917)	(2006)	(2004)	(1975)
Min	55.0	149	260	158	167	302	692	328	55.0	55.4	41.5	49.4
(WY)	(1915)	(1931)	(1961)	(1931)	(1931)	(1931)	(1995)	(1941)	(1920)	(1913)	(1913)	(1913)

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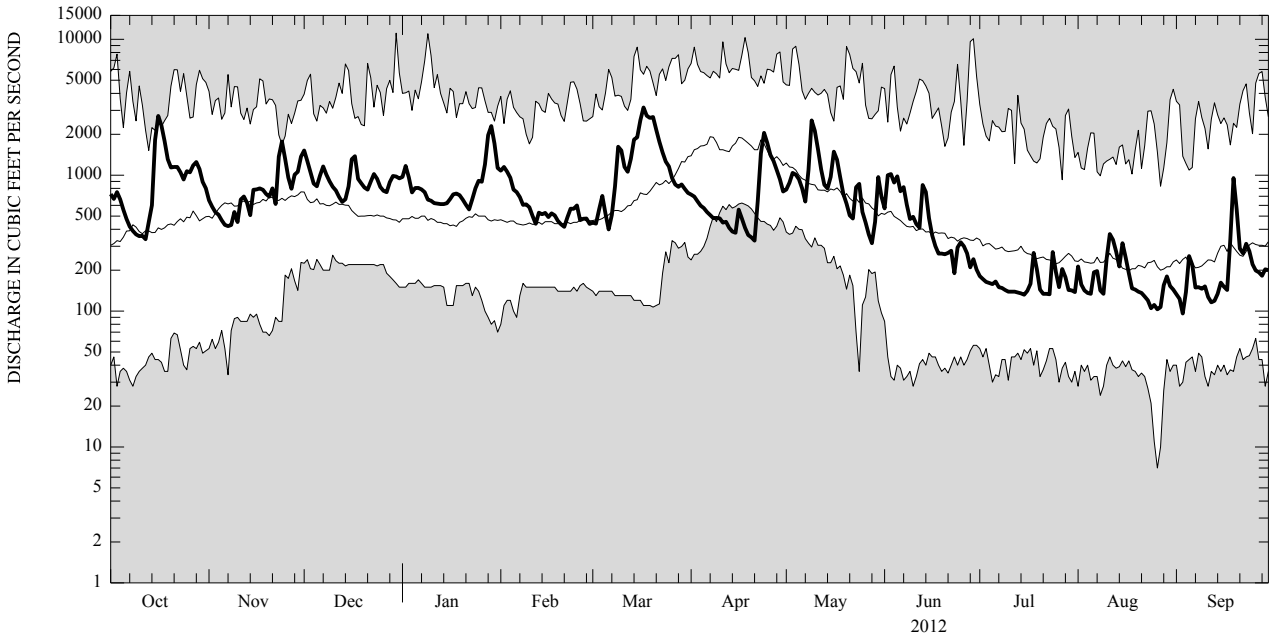
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1911 - 2012	
Annual total	339,826		250,913			
Annual mean	931		686		740	
Highest annual mean					1,120	2006
Lowest annual mean					448	1931
Highest daily mean	8,070	Apr 29	3,150	Mar 17	11,100	Dec 30, 1984
Lowest daily mean	169	Aug 3	96	Sep 3	7.0	Aug 26, 1918
Annual seven-day minimum	187	Aug 1	116	Aug 21	19	Aug 22, 1918
10 percent exceeds	1,930		1,300		1,590	
50 percent exceeds	662		600		485	
90 percent exceeds	246		144		176	



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.