Water-Data Report 2013

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)
Feb 1	0215	ice jam	*9.20
Apr 20	1830	*4,670	8.69
No other peak greater than base discharge			

Minimum discharge, 113 ft^3/s, Aug. 22, gage height, 3.58 ft.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 04252500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/04252500.2013.pdf

04252500 BLACK RIVER NEAR BOONVILLE, NY—Continued

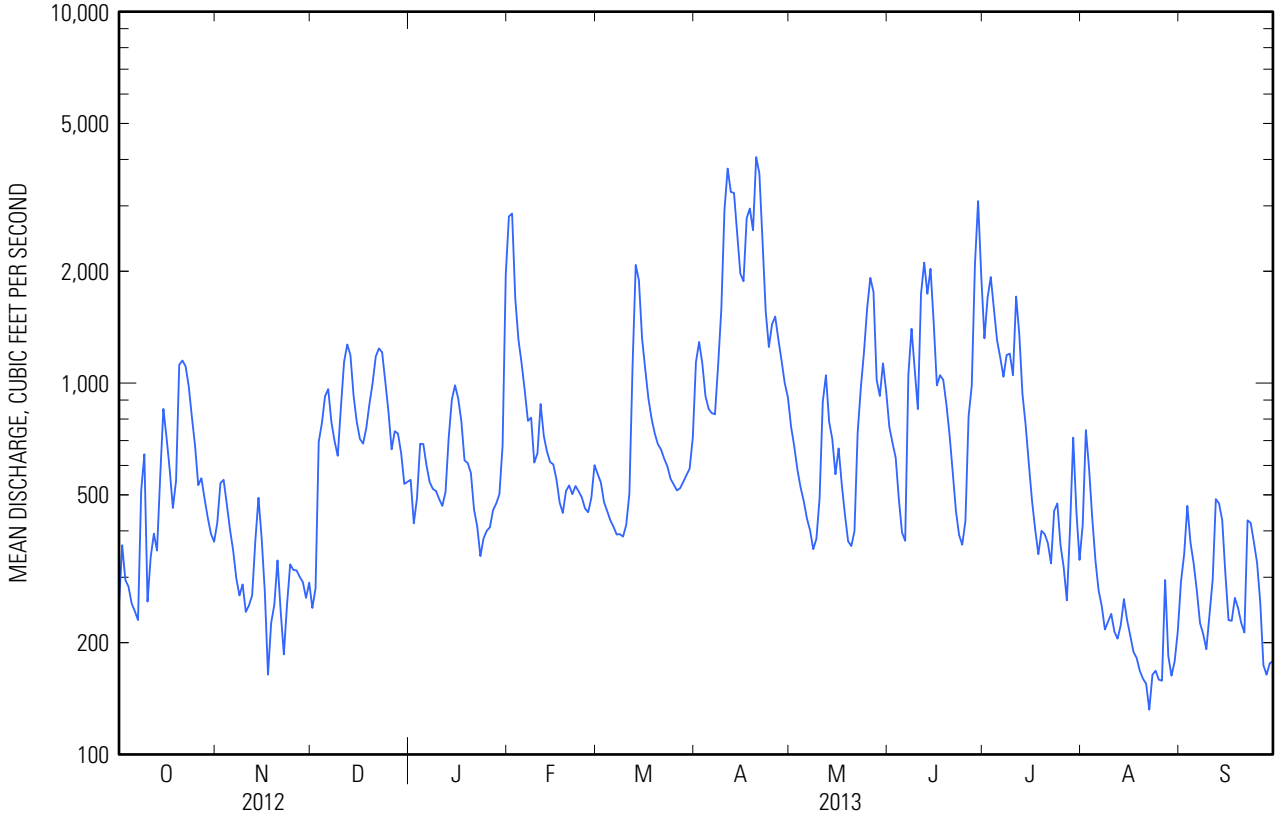
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	253	420	248	549	e2,810	569	1,140	763	762	1,320	416	292
2	366	538	280	419	2,860	540	1,290	676	690	1,700	747	346
3	295	549	694	490	e1,690	478	1,130	585	630	1,930	590	467
4	283	472	780	686	e1,310	452	923	524	487	1,580	434	372
5	255	404	922	685	1,130	427	852	481	396	1,300	334	327
6	243	355	963	600	953	410	830	432	376	1,170	277	276
7	230	298	785	541	791	391	824	401	1,050	1,040	251	226
8	513	268	698	519	807	392	1,120	357	1,400	1,190	217	211
9	643	287	637	512	611	386	1,580	381	1,090	1,200	228	192
10	258	242	e860	487	647	415	2,930	490	851	1,050	239	238
11	340	252	e1,140	467	878	504	3,780	889	1,740	1,710	214	296
12	393	268	e1,270	509	721	1,110	3,270	1,050	2,110	1,350	205	487
13	354	375	1,190	e712	654	2,080	3,250	788	1,740	933	223	474
14	561	491	925	e903	613	1,890	2,530	707	2,030	771	262	428
15	852	382	786	e986	604	1,320	1,970	568	1,450	607	230	307
16	713	274	707	e909	550	1,090	1,880	667	986	483	209	230
17	584	164	687	e788	477	909	2,780	533	1,050	404	189	229
18	461	226	e756	619	447	802	2,950	442	1,020	346	182	264
19	546	253	e878	e609	512	732	2,580	375	876	400	168	248
20	1,120	333	e1,000	e573	530	684	4,060	364	725	392	160	226
21	1,150	243	e1,180	456	502	662	3,670	399	575	371	155	213
22	1,110	186	e1,240	411	528	625	2,410	733	453	327	132	427
23	980	253	e1,210	342	511	596	1,560	969	390	453	164	420
24	809	325	1,010	382	492	552	1,250	1,210	367	474	168	373
25	677	314	837	e400	460	533	1,440	1,590	425	366	159	328
26	531	313	663	e409	449	514	1,510	1,920	813	319	158	257
27	554	301	742	e455	491	521	1,310	1,760	985	260	295	174
28	488	291	731	e474	601	542	1,150	1,020	2,080	406	184	164
29	434	264	648	e502	---	565	1,000	923	3,090	713	163	176
30	393	290	535	e678	---	588	916	1,130	1,940	452	178	178
31	374	---	542	e1,960	---	712	---	951	---	334	215	---
Total	16,763	9,631	25,544	19,032	23,629	21,991	57,885	24,078	32,577	25,351	7,746	8,846
Mean	541	321	824	614	844	709	1,930	777	1,086	818	250	295
Max	1,150	549	1,270	1,960	2,860	2,080	4,060	1,920	3,090	1,930	747	487
Min	230	164	248	342	447	386	824	357	367	260	132	164

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	590	771	762	673	585	1,044	1,882	981	540	372	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)

04252500 BLACK RIVER NEAR BOONVILLE, NY—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1911 - 2013	
Annual total	220,721		273,073			
Annual mean	603		748		740	
Highest annual mean					1,120	2006
Lowest annual mean					448	1931
Highest daily mean	3,150	Mar 17	4,060	Apr 20	11,100	Dec 30, 1984
Lowest daily mean	96	Sep 3	132	Aug 22	7.0	Aug 26, 1918
Annual seven-day minimum	116	Aug 21	157	Aug 20	19	Aug 22, 1918
10 percent exceeds	1,150		1,470		1,590	
50 percent exceeds	489		540		486	
90 percent exceeds	144		235		177