04252500 BLACK RIVER NEAR BOONVILLE, NY

Northeastern Lake Ontario Basin
Black Subbasin

LOCATION.--Lat 43°30′42″, long 75°18′25″ referenced to North American Datum of 1927, 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 mill 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)
Oct 21	0330	6,510	9.13
Oct 29	1600	*6,650	9.19
Nov 17	2100	6,030	8.92
Jan 9	0915	5,570	8.71
Mar 15	0730	ice jam	*9.47
Mar 16	2000	4,200	8.17
Mar 28	0430	4,870	8.51
Apr 24	2045	4,040	8.08

Minimum discharge, 111 ft^3/s, Sept. 7, gage height, 3.53 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,530	2,950	1,370	1,530	e664	e433	1,800	1,520	270	181	186	123
2	1,380	2,800	2,690	1,970	e637	e481	2,120	1,420	261	181	175	120
3	1,130	2,360	2,370	1,680	e614	e607	2,770	1,030	252	185	174	117
4	938	1,960	1,790	1,380	e595	e667	3,230	951	252	185	203	115
5	1,020	1,510	1,490	1,340	e567	e639	3,470	837	274	205	173	115
6	921	1,290	1,270	3,410	e540	e583	2,510	750	293	205	171	115
7	775	1,210	1,170	4,870	e531	e547	1,610	686	279	215	175	112
8	691	1,320	1,020	4,520	e527	e519	1,330	601	276	218	215	118
9	628	1,560	978	5,290	e518	e477	1,150	549	431	349	211	212
10	608	1,570	913	3,700	e507	e448	1,040	551	342	363	198	386
11	605	1,480	873	2,310	e507	e492	948	675	269	308	183	296
12	612	2,570	874	1,770	e499	e553	1,160	877	240	435	173	522
13	733	3,120	1,120	1,740	e513	e699	1,260	575	223	420	158	478
14	695	2,200	1,640	e1,710	e513	e1,260	1,110	485	205	323	148	285
15	687	1,940	1,590	e1,620	e499	e2,140	1,130	448	194	272	143	254
16	681	2,010	1,590	e1,510	e508	e3,500	1,480	689	193	242	140	251
17	762	5,120	1,550	e1,420	e517	3,070	1,980	1,010	189	220	136	204
18	2,290	4,940	1,390	e1,320	e526	1,900	2,390	855	193	223	145	158
19	2,750	3,340	1,260	e1,240	e521	1,430	2,700	582	185	269	143	146
20	4,520	2,620	1,120	e1,110	e521	1,520	2,920	486	875	387	142	139
21	5,980	1,920	1,020	e1,010	e500	1,170	3,050	442	767	372	142	137
22	4,000	1,450	956	e923	e493	1,070	3,170	408	448	287	136	134
23	2,860	1,270	1,940	e865	e484	1,400	3,380	376	343	237	135	133
24	2,550	1,160	2,550	e853	e457	1,580	3,770	354	275	225	148	136
25	2,110	1,080	1,960	883	e437	1,490	3,590	341	249	217	163	130
26	1,820	1,020	2,470	775	e445	1,690	2,470	319	229	205	160	131
27	1,500	957	3,030	837	e419	4,010	1,560	309	217	215	151	147
28	2,440	906	2,180	e801	e459	4,670	1,550	339	212	457	138	206
29	5,920	887	1,650	e735	---	3,810	1,580	316	203	309	129	228
30	5,130	851	1,380	e702	---	2,880	1,500	294	186	234	123	205
31	3,610	---	1,220	e689	---	2,000	---	278	---	202	125	---
Total	61,876	59,371	48,424	54,513	14,518	47,735	63,728	19,353	8,825	8,346	4,942	5,853
Mean	1,996	1,979	1,562	1,758	518	1,540	2,124	624	294	269	159	195
Max	5,980	5,120	3,030	5,290	664	4,670	3,770	1,520	875	457	215	522
Min	605	851	873	689	419	433	948	278	185	181	123	112

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	569	770	753	670	581	1,028	1,888	984	530	366	294	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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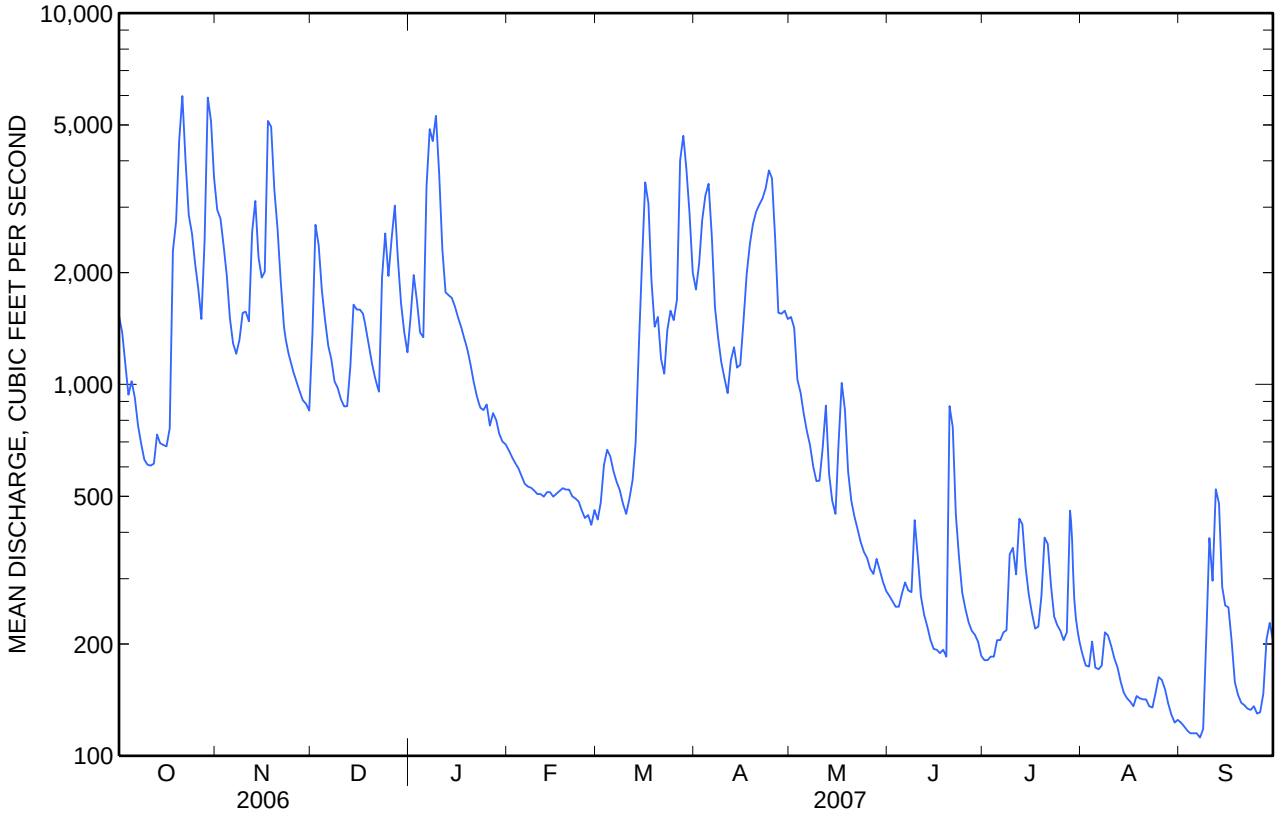
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1911 - 2007	
Annual total	459,840		397,484			
Annual mean	1,260		1,089		735	
Highest annual mean					1,120	2006
Lowest annual mean					448	1931
Highest daily mean	10,100	Jun 29	5,980	Oct 21	11,100	Dec 30, 1984
Lowest daily mean	230	Aug 18	112	Sep 7	7.0	Aug 26, 1918
Annual seven-day minimum	252	Aug 13	116	Sep 2	19	Aug 22, 1918
10 percent exceeds	2,560		2,690		1,580	
50 percent exceeds	913		667		480	
90 percent exceeds	398		162		174