04252500 BLACK RIVER NEAR BOONVILLE, NY

Black Watershed

LOCATION.--Lat 43°30′42″, long 75°18′25″ referenced to North American Datum of 1927, Oneida County, 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.

WATER-DISCHARGE 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.

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 good except those below 800 ft^3/s, which are fair, and 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 and gage-height telemeters 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)
Dec 02	1300	4,440	8.40
Dec 12	0330	4,750	8.57
Apr 03	2145	*7,320	a*9.73

a Recorded; outside gage height was 9.41 ft, from crest-stage gage.

Minimum discharge, 127 ft^3/s, Jun 13, gage height, 3.72 ft.

REVISIONS.--Revised minimum, daily, monthly and yearly discharges for the 2004 water year are given below. These figures supercede those published in the report for 2004.

Minimum discharge, 208 ft^3/s, Sept.30, gage height, 4.01 ft.

Daily discharges, in cubic feet per second:

Sep. 27	308	Sep. 28	286	Sep. 29	282	Sep. 30	269

MONTH	TOTAL	MEAN	MAX	MIN
Sep 2004	22623	754	2210	269

SUMMARY STATISTICS

	Calendar Year 2003		Water Year 2004		Water Years 1911 - 2004	
Annual total	360,466		374,502			
Annual mean	988		1,023		726	
Highest annual mean					1,119	1976
Lowest annual mean					448	1931
Highest daily mean	4,970	Mar 30	6,660	May 25	11,100	Dec 30, 1984
Lowest daily mean	144	Sep 12	214	Jul 5	7.0	Aug 26, 1918
Annual seven-day minimum	165	Sep 8	238	Jul 1	19	Aug 22, 1918
10 percent exceeds	2,070		1,860		1,550	
50 percent exceeds	820		861		477	
90 percent exceeds	250		307		173	

04252500 BLACK RIVER NEAR BOONVILLE, NY—Continued

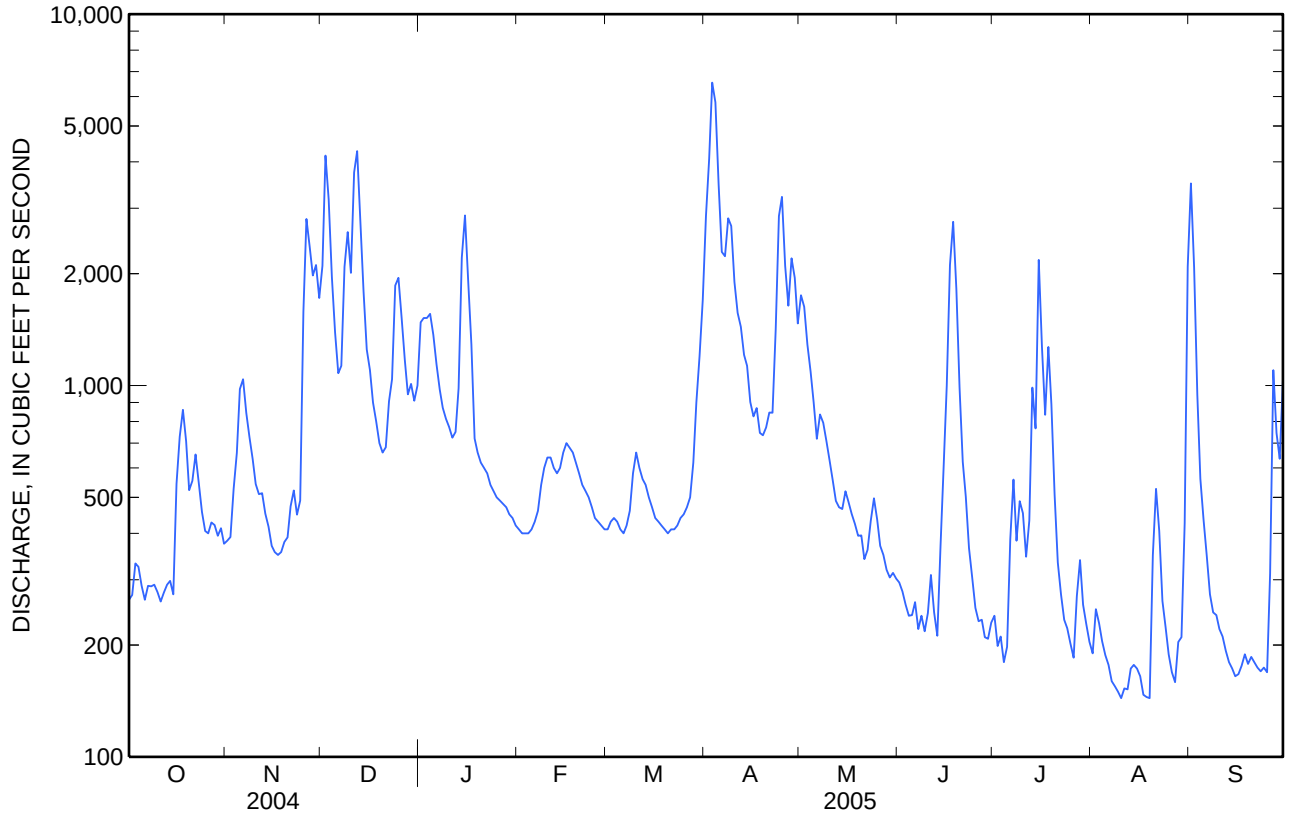
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	265	382	2,100	1,480	e410	e410	2,860	1,750	295	240	190	3,500
2	273	391	4,160	1,520	e400	e430	4,080	1,630	279	199	250	2,080
3	332	527	3,170	1,520	e400	e440	6,540	1,290	257	211	229	945
4	325	659	1,960	1,560	e400	e430	5,790	1,090	240	180	205	561
5	289	979	1,390	1,370	e410	e410	3,490	902	241	198	188	435
6	265	1,040	1,080	1,140	e430	e400	2,290	719	261	386	177	348
7	289	844	1,130	977	e460	e420	2,230	836	221	558	160	274
8	288	726	2,090	871	e540	e460	2,820	794	240	382	155	245
9	291	634	2,590	814	e600	e580	2,690	708	218	488	150	241
10	278	543	2,010	773	e640	e660	1,900	631	244	453	144	221
11	262	510	3,750	724	e640	e600	1,570	557	309	346	153	211
12	277	513	4,280	750	e600	e560	1,440	489	245	433	152	193
13	291	452	2,770	983	e580	e540	1,210	470	212	987	173	180
14	298	417	1,790	2,210	e600	e500	1,130	465	369	767	177	173
15	274	370	1,250	2,870	e660	e470	903	519	612	2,180	173	165
16	544	356	e1,100	1,910	e700	e440	826	486	1,000	1,270	165	167
17	728	350	e900	1,290	e680	e430	870	451	2,110	834	147	176
18	860	356	e800	e720	e660	e420	746	424	2,760	1,270	145	189
19	708	379	e700	e660	e620	e410	735	394	1,820	890	144	178
20	523	390	e660	e620	e580	e400	771	395	986	509	349	186
21	554	473	682	e600	e540	e410	846	341	623	334	527	180
22	652	522	907	e580	e520	e410	845	361	502	274	406	174
23	547	449	1,040	e540	e500	e420	1,420	432	365	234	263	170
24	457	490	1,860	e520	e470	e440	2,860	497	304	222	223	174
25	406	1,580	1,950	e500	e440	e450	3,220	436	252	202	189	169
26	400	2,810	1,520	e490	e430	e470	2,100	370	232	185	169	312
27	428	2,370	1,170	e480	e420	e500	1,640	350	234	271	159	1,100
28	421	1,980	947	e470	e410	e620	2,200	319	210	339	204	745
29	394	2,110	1,010	e450	---	e900	1,950	304	208	257	210	635
30	413	1,720	910	e440	---	e1,200	1,470	313	230	228	426	1,030
31	375	---	1,000	e420	---	e1,700	---	302	---	204	2,090	---
Total	12,707	25,322	52,676	30,252	14,740	16,930	63,442	19,025	16,079	15,531	8,492	15,357
Mean	410	844	1,699	976	526	546	2,115	614	536	501	274	512
Max	860	2,810	4,280	2,870	700	1,700	6,540	1,750	2,760	2,180	2,090	3,500
Min	262	350	660	420	400	400	735	302	208	180	144	165

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	546	748	743	652	575	1,021	1,891	990	521	357	293	388
Max	1,695	1,485	1,759	1,837	1,410	2,394	3,313	2,402	1,707	980	923	1,157
(WY)	(1946)	(2004)	(1974)	(1913)	(1981)	(1921)	(1993)	(1972)	(1917)	(1947)	(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 2004		Water Year 2005		Water Years 1911 - 2005	
Annual total	337,593		290,553			
Annual mean	922		796		727	
Highest annual mean					1,119	1976
Lowest annual mean					448	1931
Highest daily mean	6,660	May 25	6,540	Apr 3	11,100	Dec 30, 1984
Lowest daily mean	214	Jul 5	144	Aug 10	7.0	Aug 26, 1918
Annual seven-day minimum	238	Jul 1	155	Aug 7	19	Aug 22, 1918
10 percent exceeds	1,880		1,950		1,550	
50 percent exceeds	668		486		477	
90 percent exceeds	285		199		174