

04260500 BLACK RIVER AT WATERTOWN, NY

LOCATION.--Lat 43°59'08", long 75°55'30", Jefferson County, Hydrologic Unit 04150101, on right bank 200 ft downstream from Vanduzee Street Bridge at Watertown, and 3.5 mi upstream from Philomel Creek.

DRAINAGE AREA.--1,864 mi².

PERIOD OF RECORD.--July 1920 to current year.

REVISED RECORDS.--WDR NY-77-1: 1974. WDR NY-85-1: Drainage area. WDR NY-93-1: 1955, 1958-60, 1962-64, 1969, 1971-72, 1974, 1976-77, 1979-82, 1984-87, 1989-92.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 373.88 ft above NGVD of 1929. Prior to Sept. 3, 1921, nonrecording gage, and from Sept. 3, 1921 to Mar. 15, 1977, recording gage at same site at datum 1.00 ft higher. Prior to June 13, 1992, at site 200 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Stillwater Reservoir (see station 04256500), Fulton Chain of Lakes, and other reservoirs. Extensive diurnal fluctuation at low and medium flow caused by mills and powerplants in and above Watertown. During canal season, water is diverted out of basin through Forestport feeder and Black River Canal (flowing south). Satellite and telephone gage-height and rain-gage telemeter and Hudson River-Black River Regulating District telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,500 ft³/s, Jan. 10, 1998, gage height, 16.02 ft; minimum, 10 ft³/s, Sept. 2, 1934, gage height, 0.81 ft, present datum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, about 39,700 ft³/s, Apr. 23, 1869 (from New York State Museum Bulletin 85).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 17,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 30	1130	18,100	8.81	May 27	0500	*20,000	*9.23

Minimum discharge, 419 ft³/s, Aug. 9, gage height, 1.70 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,160	12,600	10,700	8,180	e3,000	2,570	15,300	4,030	6,610	1,520	2,570	9,190
2	5,650	11,100	10,900	7,790	e2,900	2,900	15,100	3,870	5,500	1,500	2,420	10,800
3	4,810	10,100	9,970	7,300	e3,000	3,600	15,100	4,860	5,140	1,520	2,520	10,100
4	4,230	9,640	8,670	8,170	3,170	5,070	14,700	5,790	4,520	1,490	2,140	8,180
5	5,500	9,240	7,070	8,380	3,260	6,090	13,400	6,020	3,880	1,390	1,940	6,100
6	6,790	8,960	5,840	8,180	2,970	8,840	11,800	5,720	3,540	1,210	2,200	4,100
7	7,400	8,390	4,970	7,070	2,940	10,100	10,100	5,020	3,030	1,510	2,070	3,200
8	7,550	7,510	4,480	4,120	3,400	9,760	8,550	4,410	2,710	1,930	1,640	2,950
9	6,960	6,480	4,340	e3,800	3,270	8,620	7,200	3,780	2,680	2,420	1,510	5,930
10	5,700	5,440	4,440	e4,400	3,030	7,840	6,180	3,560	2,510	2,400	1,610	10,900
11	4,300	4,790	5,690	e4,500	3,010	7,000	5,520	3,500	2,600	2,090	1,650	10,800
12	3,290	4,590	8,920	e4,600	2,980	6,370	5,080	3,550	2,470	1,990	1,880	9,920
13	2,700	5,060	9,390	e4,600	2,900	5,760	4,980	3,130	2,240	1,750	2,530	8,480
14	2,560	6,620	9,340	4,400	2,880	5,030	8,530	3,380	2,100	1,540	4,420	6,680
15	2,750	6,830	8,780	e4,200	e2,700	4,350	10,100	3,810	2,390	1,380	5,450	4,890
16	8,210	6,450	7,030	e4,000	e2,500	4,130	11,500	4,300	3,170	1,830	5,370	3,630
17	9,380	5,940	6,950	e4,000	e2,400	3,770	11,900	3,940	2,870	2,120	4,450	3,040
18	10,200	5,990	6,670	e4,300	e2,500	3,700	10,900	3,590	2,540	2,770	3,620	2,670
19	10,100	6,850	6,100	e4,000	e2,500	3,530	9,790	3,500	2,160	3,230	3,090	3,390
20	8,950	10,100	6,190	e3,800	e2,000	3,340	9,210	4,290	1,980	2,470	2,500	3,800
21	7,680	12,900	5,570	e3,600	e2,300	e3,200	8,890	4,240	1,910	2,200	2,590	3,280
22	6,850	16,300	5,140	e3,800	e2,100	e3,100	8,400	3,610	1,670	2,110	4,010	2,620
23	6,510	14,800	5,730	e3,400	e2,400	e3,200	7,800	5,010	1,750	1,850	4,980	2,650
24	6,070	11,900	6,490	e3,200	e2,500	3,270	7,110	8,370	1,770	1,830	4,510	2,520
25	5,630	9,800	8,270	e3,300	e2,500	3,800	6,460	10,800	2,020	1,900	3,580	2,300
26	5,240	8,440	8,770	e3,300	e2,400	5,820	5,830	17,300	1,830	1,540	2,760	2,160
27	5,820	7,350	9,060	e3,100	e2,400	10,700	5,600	18,700	1,700	1,630	2,460	2,160
28	8,430	7,050	8,980	e3,000	e2,500	13,100	5,520	15,100	1,660	2,440	2,270	2,010
29	9,560	9,100	8,470	e3,000	2,580	15,700	5,220	12,100	1,530	3,490	2,700	1,930
30	11,900	9,990	7,860	e3,100	---	17,500	4,680	9,970	1,520	3,360	4,520	1,900
31	12,900	---	8,430	e3,100	---	16,700	---	8,200	---	2,870	8,100	---
TOTAL	209,780	260,310	229,210	145,690	78,990	208,460	270,450	197,450	82,000	63,280	98,060	152,280
MEAN	6,767	8,677	7,394	4,700	2,724	6,725	9,015	6,369	2,733	2,041	3,163	5,076
MAX	12,900	16,300	10,900	8,380	3,400	17,500	15,300	18,700	6,610	3,490	8,100	10,900
MIN	2,560	4,590	4,340	3,000	2,000	2,570	4,680	3,130	1,520	1,210	1,510	1,900

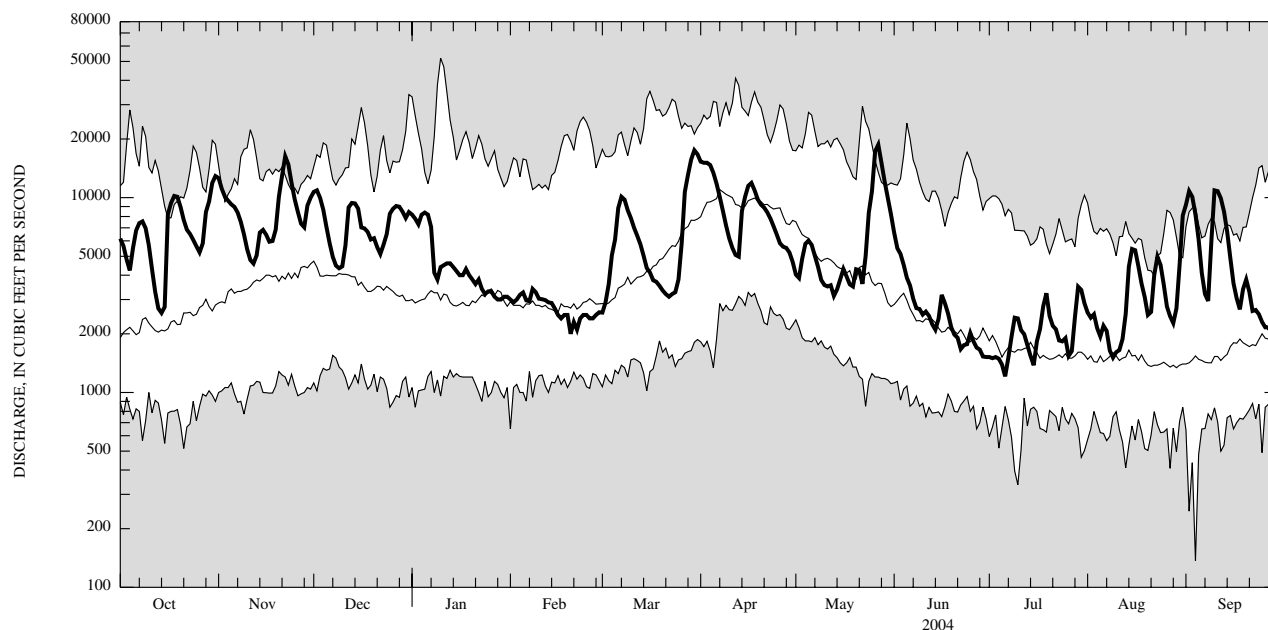
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2004, BY WATER YEAR (WY)

	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931
MEAN	3,155	4,391	4,466	4,108	3,654	6,132	10,000	5,465	2,795	2,030	1,797	2,188
MAX	9,058	8,677	9,944	12,040	9,181	13,590	19,180	12,790	8,235	5,266	4,083	5,076
(WY)	(1946)	(2004)	(1997)	(1998)	(1981)	(1921)	(1993)	(1943)	(1947)	(1972)	(1986)	(2004)
MIN	1,149	1,116	1,403	1,173	1,289	1,776	3,460	1,600	991	925	730	919
(WY)	(1964)	(1931)	(1923)	(1961)	(1931)	(1940)	(1995)	(1941)	(1941)	(1965)	(1923)	(1923)

04260500 BLACK RIVER AT WATERTOWN, NY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1920 - 2004	
ANNUAL TOTAL	1,975,280		1,995,960		4,180	
ANNUAL MEAN	5,412		5,453		6,392	
HIGHEST ANNUAL MEAN					2,579	
LOWEST ANNUAL MEAN					52,000	
HIGHEST DAILY MEAN	21,500	Mar 31	18,700	May 27	1976	1931
LOWEST DAILY MEAN	1,040	Sep 12	1,210	Jul 6	137	Jan 10, 1998
ANNUAL SEVEN-DAY MINIMUM	1,150	Sep 10	1,450	Jul 1	637	Sep 4, 1939
10 PERCENT EXCEEDS	10,700		10,100		8,910	Aug 15, 1923
50 PERCENT EXCEEDS	4,340		4,380		2,870	
90 PERCENT EXCEEDS	1,510		2,000		1,280	

e Estimated



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.