

01346000 WEST CANADA CREEK AT KAST BRIDGE, NY

LOCATION.--Lat 43°04'08", long 74°59'19", Herkimer County, Hydrologic Unit 02020004, on right bank 600 ft downstream from bridge on old State Highway 28 at Kast Bridge, 1.2 mi downstream from North Creek, 2.2 mi north of Herkimer, and 4.0 mi upstream from mouth.

DRAINAGE AREA.--560 mi².

PERIOD OF RECORD.--January 1907, April to December 1907, March 1908 to December 1909, April 1910 to December 1911 (monthly discharges only, published in WSP 1302), January 1912 to December 1913, April 1914 to June 1918 (monthly discharges only, published in WSP 1302), October 1920 to current year.

REVISED RECORDS.--WDR NY-85-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 438.99 ft above NGVD of 1929. Prior to Sept. 18, 1920, nonrecording gage at former highway bridge 500 ft upstream at different datum. Prior to Oct. 23, 1985, at site on left bank, at current datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Since March 1914, flow regulated by Hinckley Reservoir, 31 mi upstream from station (usable capacity, 3,320 mil ft³). Diurnal fluctuation at low and medium flow caused by powerplants upstream from station. Diversion at Trenton Falls, 26 mi upstream from station, by Ninemile feeder since 1915 during canal navigation season. Diversion from Hinckley Reservoir for Utica water supply returned to Mohawk River. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge prior to regulation, 23,300 ft³/s, Mar. 26, 1913, from reports of State Engineer and Surveyor; maximum gage height, 10.47 ft, probably Feb. 17, 1943, from floodmark in gage well (ice jam); maximum discharge since regulation, 20,500 ft³/s, Oct. 2, 1945, gage height, 8.08 ft; minimum discharge, 20 ft³/s, Sept. 3, 1929, gage height, 0.90 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,700 ft³/s, May 25, gage height, 6.46 ft; minimum discharge, 322 ft³/s, July 1, gage height, 2.19 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	999	3,100	2,670	1,650	e780	653	3,140	1,760	2,410	503	1,110	2,130
2	970	2,480	2,560	1,540	e760	797	3,320	1,770	2,580	648	928	1,220
3	1,040	3,030	2,290	2,300	e760	1,550	2,810	2,000	1,980	542	855	1,170
4	1,560	2,670	2,410	2,420	e780	1,430	2,780	1,810	939	523	823	1,140
5	1,770	2,600	1,700	1,880	e800	1,910	2,610	1,780	903	525	797	1,120
6	1,750	2,410	1,430	2,010	e780	3,070	2,430	1,850	897	511	787	1,120
7	2,340	2,310	1,400	1,850	e780	1,880	2,400	1,710	884	716	876	1,090
8	2,240	1,960	1,350	1,870	e800	1,390	2,340	1,420	891	1,190	977	1,150
9	1,660	1,810	1,400	1,520	e800	1,170	2,380	1,500	885	776	826	2,170
10	1,690	1,780	1,370	e1,300	e800	1,060	2,350	1,810	948	641	797	1,840
11	1,260	1,820	3,520	e1,200	e800	1,120	2,320	1,620	742	590	844	1,070
12	1,040	1,950	2,940	e1,100	e760	1,140	2,160	1,280	696	560	894	1,020
13	1,030	2,640	2,760	e1,100	e760	1,010	1,950	892	679	551	1,700	1,010
14	1,010	2,210	2,510	e1,000	e780	989	2,700	925	667	575	1,200	989
15	2,530	1,980	2,340	e960	e780	999	2,390	993	720	653	943	985
16	2,340	1,910	1,510	e940	e760	957	2,500	1,010	659	918	1,190	964
17	3,660	2,070	1,520	e920	e740	912	2,360	946	579	828	1,120	978
18	3,650	2,200	1,560	e920	e720	900	2,480	984	632	675	912	1,720
19	2,860	2,920	1,480	e900	e740	1,020	2,800	1,140	619	616	898	1,180
20	2,290	4,380	1,410	e900	e740	1,130	3,260	978	597	575	994	1,050
21	1,830	2,800	1,420	e860	e740	1,460	3,340	833	608	547	2,130	2,040
22	1,940	3,000	1,400	e840	e740	1,230	3,200	654	669	531	1,380	1,130
23	2,270	2,710	1,420	e820	e740	1,200	2,950	1,190	736	598	1,090	983
24	1,860	2,390	2,740	e800	e740	1,220	2,580	5,800	597	593	983	960
25	1,690	2,520	2,620	e760	706	1,660	2,350	10,900	540	538	982	957
26	1,710	2,370	2,050	e740	e680	2,510	2,870	7,670	520	540	932	965
27	3,540	2,400	2,650	e740	e660	5,510	2,520	4,610	508	1,900	982	953
28	3,270	2,510	2,580	e760	653	3,170	2,380	3,550	503	1,560	1,210	932
29	4,870	3,360	2,380	e780	630	2,500	1,970	2,470	510	1,020	1,400	939
30	4,970	2,640	2,790	e800	---	2,520	1,780	2,300	508	728	2,480	962
31	4,020	---	1,950	e780	---	2,860	---	2,240	---	790	2,710	---
TOTAL	69,659	74,930	64,130	36,960	21,709	50,927	77,420	70,395	25,606	22,461	35,750	35,937
MEAN	2,247	2,498	2,069	1,192	749	1,643	2,581	2,271	854	725	1,153	1,198
MAX	4,970	4,380	3,520	2,420	800	5,510	3,340	10,900	2,580	1,900	2,710	2,170
MIN	970	1,780	1,350	740	630	653	1,780	654	503	503	787	932

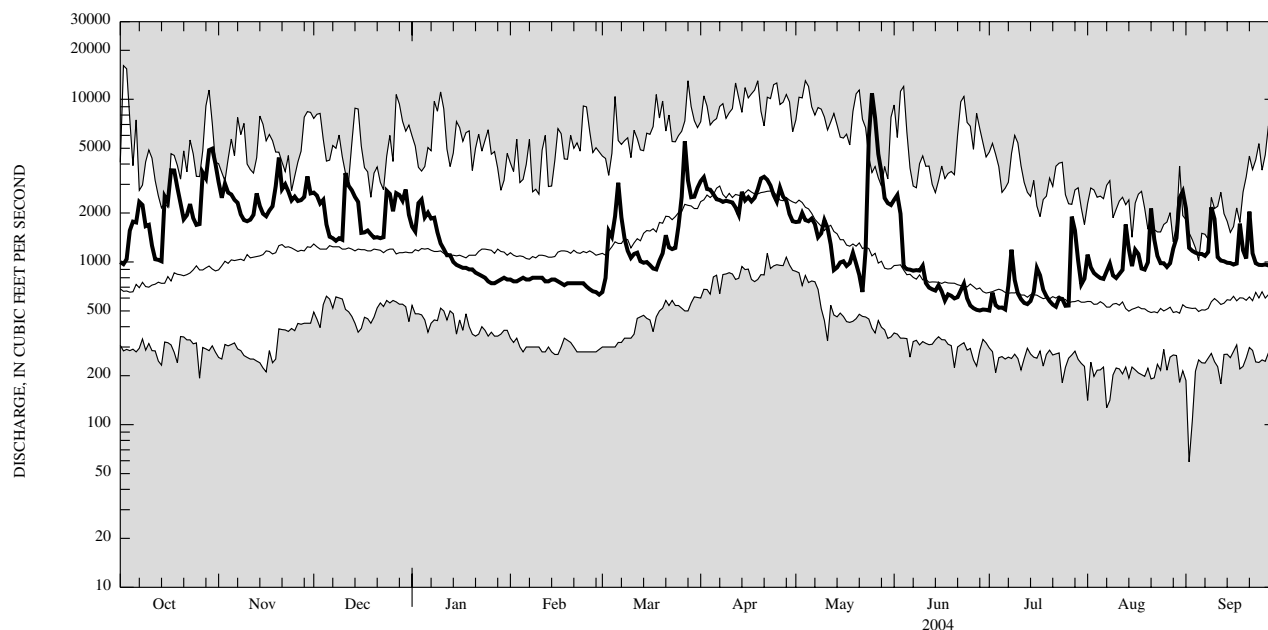
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2004, BY WATER YEAR (WY)

MEAN	955	1,327	1,389	1,320	1,229	1,884	2,921	1,878	996	743	614	701
MAX	3,131	2,984	2,835	3,044	2,704	3,725	5,623	4,667	3,875	2,075	1,481	1,831
(WY)	(1946)	(1960)	(1997)	(1930)	(1981)	(1945)	(1993)	(1972)	(1972)	(1935)	(1986)	(1977)
MIN	338	335	621	453	316	681	1,056	594	359	283	227	284
(WY)	(1965)	(1965)	(1931)	(1931)	(1931)	(1940)	(1995)	(1987)	(1941)	(1941)	(1934)	(1934)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1921 - 2004	
ANNUAL TOTAL	599,154		585,884		1,329	
ANNUAL MEAN	1,642		1,601		1,872	
HIGHEST ANNUAL MEAN					829	
LOWEST ANNUAL MEAN					16,100	
HIGHEST DAILY MEAN	5,690	Mar 22	10,900	May 25	16,100	Oct 2, 1945
LOWEST DAILY MEAN	474	Jul 31	503	Jun 28	59	Sep 2, 1929
ANNUAL SEVEN-DAY MINIMUM	521	Jul 14	513	Jun 25	211	Aug 16, 1934
10 PERCENT EXCEEDS	2,930		2,780		2,590	
50 PERCENT EXCEEDS	1,260		1,200		1,000	
90 PERCENT EXCEEDS	643		658		458	

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.