

01346000 WEST CANADA CREEK AT KAST BRIDGE, NY

Upper Hudson Basin
Mohawk Subbasin

LOCATION.--Lat 43°04'08", long 74°59'18" referenced to North American Datum of 1983, Herkimer County, NY, 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.

SURFACE-WATER RECORDS

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 for most months, published in WSP 1302), October 1920 to current year. Record prior to October 1920 furnished by State engineer and surveyor of New York.

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. Sept. 18, 1920 to Oct. 23, 1985, at site on left bank at present 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 since construction of Hinckley Reservoir, 25,300 ft³/s, June 28, 2013, gage height, 9.01 ft; maximum gage height, 10.47 ft, probably Feb. 17, 1943, from floodmark in gage well (ice jam); minimum discharge, 20 ft³/s, Sept. 3, 1929, gage height, 0.90 ft.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--Maximum discharge prior to construction of Hinckley Reservoir, 23,300 ft³/s, Mar. 26, 1913, from reports of State engineer and surveyor of New York.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,300 ft³/s, June 28, gage height, 9.01 ft; minimum discharge, 277 ft³/s, Aug. 8; minimum gage height, 2.25 ft, Oct. 9, Aug. 8

01346000 WEST CANADA CREEK AT KAST BRIDGE, 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	481	958	611	1,120	1,820	966	1,520	2,170	1,160	7,120	862	583
2	412	1,210	765	1,350	1,310	783	1,430	2,060	1,790	8,230	858	794
3	532	1,110	1,170	1,440	1,090	720	1,110	1,950	1,220	11,500	736	769
4	673	1,050	840	1,430	1,170	695	1,090	1,960	1,440	8,680	797	624
5	674	1,090	1,090	1,310	1,150	643	1,220	1,890	1,880	6,200	699	662
6	685	1,110	1,070	1,200	1,070	652	1,170	1,870	1,930	4,600	791	652
7	728	1,000	1,010	1,340	1,030	670	1,170	1,930	2,520	3,770	758	603
8	804	1,080	1,030	1,240	1,240	697	1,490	2,060	1,420	4,870	634	565
9	742	1,050	1,050	1,270	e1,450	707	1,670	1,750	1,160	3,870	593	615
10	738	1,040	2,310	1,260	e1,460	771	2,570	1,380	1,440	2,790	749	793
11	831	998	2,040	1,190	e1,440	997	2,290	1,510	3,150	2,970	629	844
12	982	1,090	1,310	1,300	1,390	2,770	2,900	1,590	1,920	2,950	627	1,400
13	890	1,330	1,180	2,030	1,330	2,040	2,590	1,500	5,090	2,720	679	829
14	1,630	1,160	1,100	2,170	1,330	1,350	1,770	1,330	4,490	2,160	713	475
15	1,290	1,130	1,130	1,800	1,370	1,670	1,830	1,160	3,390	2,230	624	598
16	1,010	1,120	1,080	1,370	1,440	1,410	2,310	1,260	2,530	2,130	567	684
17	876	977	1,240	1,290	1,290	1,370	2,550	1,010	2,520	2,100	565	689
18	882	931	2,350	1,190	e1,410	1,360	2,130	952	2,560	1,870	577	709
19	1,590	1,080	1,780	1,350	1,420	1,370	2,180	1,060	2,220	2,040	558	795
20	1,520	1,050	1,360	1,180	1,420	1,380	6,530	952	1,970	1,160	555	837
21	1,150	1,030	3,020	1,170	e1,390	1,320	7,780	1,070	1,870	1,150	564	718
22	1,120	1,010	2,120	1,190	e1,470	1,520	4,940	1,170	1,990	901	637	846
23	1,060	1,020	1,540	e1,070	1,320	1,560	3,330	950	3,120	1,040	616	787
24	995	1,010	1,390	e1,070	1,310	1,540	2,750	1,230	2,280	856	521	743
25	1,080	999	1,330	e1,130	1,370	1,570	3,090	1,230	2,210	784	519	731
26	1,780	1,000	1,230	e1,210	1,320	1,440	3,770	1,120	3,580	748	541	681
27	1,650	1,020	1,340	1,110	1,340	946	3,210	944	1,720	681	561	641
28	1,200	999	1,400	1,300	1,500	1,020	2,580	817	8,340	711	550	620
29	1,160	842	1,380	1,250	---	1,020	2,370	1,590	5,560	820	538	520
30	1,070	770	1,440	1,990	---	1,040	2,250	1,490	6,690	631	571	603
31	1,210	---	1,390	4,690	---	1,140	---	1,210	---	646	660	---
Total	31,445	31,264	43,096	45,010	37,650	37,137	77,590	44,165	83,160	92,928	19,849	21,410
Mean	1,014	1,042	1,390	1,452	1,345	1,198	2,586	1,425	2,772	2,998	640	714
Max	1,780	1,330	3,020	4,690	1,820	2,770	7,780	2,170	8,340	11,500	862	1,400
Min	412	770	611	1,070	1,030	643	1,090	817	1,160	631	519	475

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,008	1,364	1,433	1,373	1,254	1,896	2,933	1,848	1,032	783	635	719
Max	3,131	3,073	2,835	3,311	2,704	3,725	5,623	4,667	3,875	2,998	1,481	2,035
(WY)	(1946)	(2007)	(1997)	(2007)	(1981)	(1945)	(1993)	(1972)	(1972)	(2013)	(1986)	(2011)
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)

01346000 WEST CANADA CREEK AT KAST BRIDGE, NY—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1921 - 2013	
Annual total	437,833		564,704			
Annual mean	1,196		1,547		1,356	
Highest annual mean					1,935	2011
Lowest annual mean					829	1965
Highest daily mean	5,010	May 8	11,500	Jul 3	19,300	Apr 29, 2011
Lowest daily mean	257	Sep 16	412	Oct 2	59	Sep 2, 1929
Annual seven-day minimum	396	Sep 11	543	Aug 24	184	Sep 30, 2007
10 percent exceeds	1,920		2,570		2,620	
50 percent exceeds	1,120		1,190		1,030	
90 percent exceeds	482		642		466	

