Water-Data Report 2011

01346000 WEST CANADA CREEK AT KAST BRIDGE, NY

Upper Hudson Basin
Mohawk Subbasin

LOCATION.--Lat 43°04′08″, long 74°59′19″ referenced to North American Datum of 1927, 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 mi^2.

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. 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 ft^3). 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, 23,400 ft^3/s, Apr. 29, 2011, gage height, 8.68 ft; maximum gage height, 10.47 ft, probably Feb. 17, 1943, from floodmark in gage well (ice jam); minimum discharge, 20 ft^3/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 ft^3/s, Mar. 26, 1913, from reports of State engineer and surveyor of New York.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23,400 ft^3/s, Apr. 29, gage height, 8.68 ft; minimum discharge, 490 ft^3/s, Aug. 3, 24, gage height, 2.39 ft.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 01346000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01346000.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6,740	1,490	5,560	e1,240	e1,090	1,240	1,720	5,700	1,850	2,770	711	864
2	3,100	1,290	5,300	1,630	e1,240	1,060	1,930	3,650	1,700	1,610	711	886
3	5,190	1,190	5,300	1,410	e1,290	e949	2,020	3,000	1,530	1,120	642	862
4	3,540	1,450	3,910	1,360	e1,320	e902	2,590	5,560	837	997	656	1,470
5	3,180	1,550	2,700	1,340	e1,310	e879	3,940	5,540	797	942	609	2,140
6	3,570	1,410	2,190	e1,240	e1,280	2,930	2,430	4,280	845	873	629	2,030
7	6,050	1,300	1,630	e1,180	e1,180	2,220	2,050	2,630	782	837	683	6,080
8	5,650	1,300	1,520	1,220	e951	1,520	1,930	2,240	800	783	833	8,020
9	4,030	1,340	1,380	1,300	e879	1,240	1,880	1,920	792	760	706	5,080
10	2,460	1,310	1,350	1,300	e907	1,240	1,950	1,560	756	782	911	4,180
11	2,060	1,270	1,440	1,300	e879	4,420	2,050	1,370	844	688	740	2,710
12	1,590	1,250	1,610	1,260	e798	3,210	2,100	1,310	852	680	686	1,650
13	1,160	1,260	2,550	e1,230	e759	2,240	4,160	1,270	896	837	609	1,370
14	1,350	1,240	1,710	e1,200	e845	2,060	6,760	1,100	862	797	581	1,120
15	1,430	1,230	1,500	e1,210	e871	1,810	6,240	1,380	797	801	631	1,150
16	1,670	1,250	1,470	e1,230	e879	2,150	4,840	1,980	777	794	976	1,230
17	1,380	1,790	1,460	e1,230	e873	2,660	5,420	1,710	751	801	692	1,170
18	1,420	1,790	1,350	e1,200	1,030	5,120	5,600	1,870	678	860	595	1,160
19	1,390	1,350	e1,400	e1,180	1,270	3,630	4,540	1,970	722	838	621	1,150
20	1,290	1,340	e1,400	e1,140	1,070	2,520	4,500	2,160	728	745	650	1,110
21	1,240	1,250	e1,280	1,100	980	2,230	5,420	2,890	740	831	611	1,270
22	1,510	1,510	e1,300	1,120	916	2,270	4,690	3,150	1,020	776	596	1,440
23	1,280	2,670	e1,300	1,120	e855	1,970	4,670	2,770	1,080	736	545	1,860
24	1,250	1,870	e1,260	1,180	e814	1,790	4,470	2,650	2,410	594	569	1,580
25	1,150	1,490	e1,300	1,150	e790	1,760	4,380	2,100	2,760	730	681	1,390
26	1,690	1,890	e1,310	1,260	e780	1,640	7,890	2,060	1,360	833	918	1,270
27	2,520	1,610	e1,290	e1,120	e770	1,610	14,100	2,630	2,340	812	2,240	1,430
28	2,090	1,360	e1,350	e1,060	e850	1,550	17,400	2,170	2,140	615	3,680	1,580
29	2,300	1,380	e1,350	e965	---	1,570	19,300	2,560	3,340	706	1,440	1,770
30	2,000	1,770	e1,310	e950	---	1,600	10,400	2,460	3,520	793	811	2,030
31	1,590	---	e1,320	e945	---	1,720	---	1,920	---	633	758	---
Total	76,870	44,200	61,100	37,370	27,476	63,710	161,370	79,560	39,306	27,374	26,721	61,052
Mean	2,480	1,473	1,971	1,205	981	2,055	5,379	2,566	1,310	883	862	2,035
Max	6,740	2,670	5,560	1,630	1,320	5,120	19,300	5,700	3,520	2,770	3,680	8,020
Min	1,150	1,190	1,260	945	759	879	1,720	1,100	678	594	545	862

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,000	1,365	1,431	1,369	1,252	1,902	2,956	1,853	1,013	761	636	722
Max	3,131	3,073	2,835	3,311	2,704	3,725	5,623	4,667	3,875	2,075	1,481	2,035
(WY)	(1946)	(2007)	(1997)	(2007)	(1981)	(1945)	(1993)	(1972)	(1972)	(1935)	(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)

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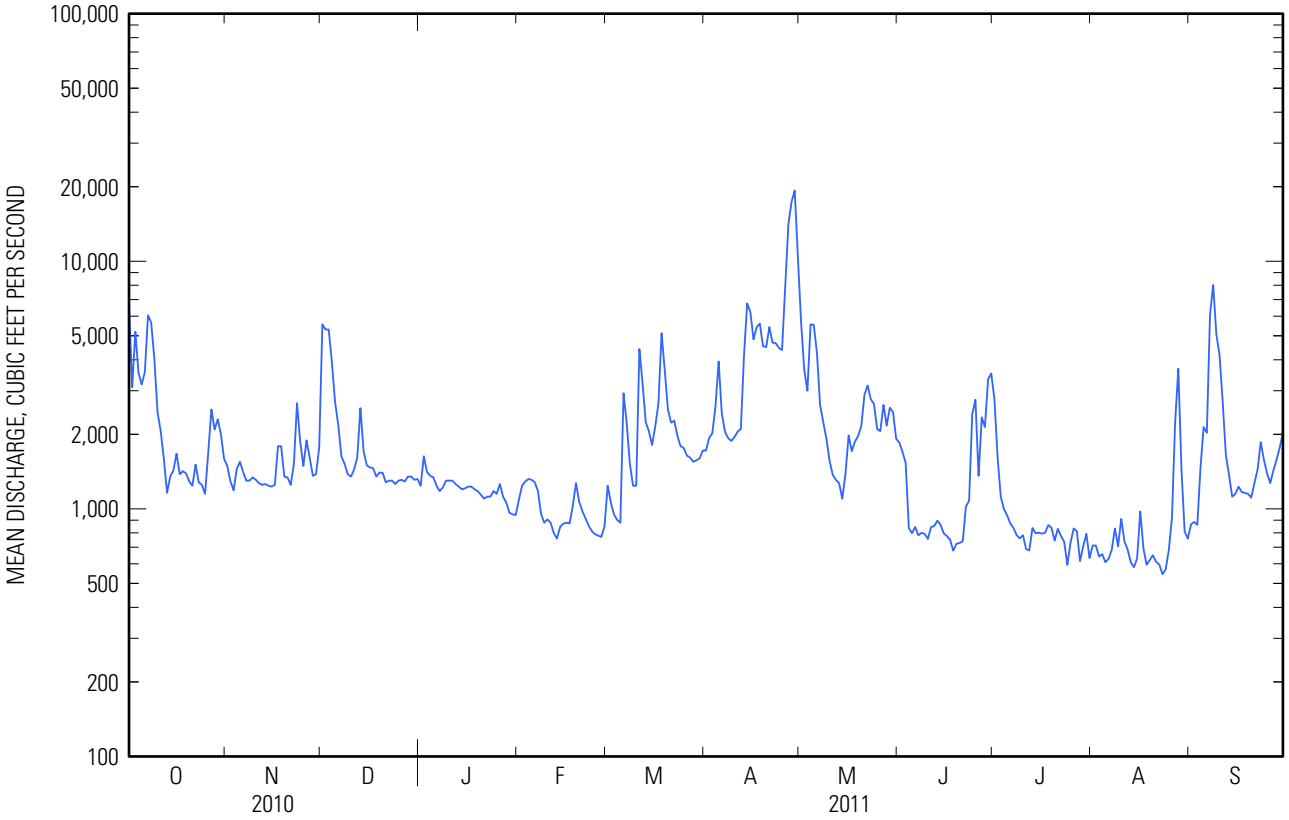
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1921 - 2011	
Annual total	527,551		706,109			
Annual mean	1,445		1,935		1,354	
Highest annual mean					1,935	2011
Lowest annual mean					829	1965
Highest daily mean	6,740	Oct 1	19,300	Apr 29	19,300	Apr 29, 2011
Lowest daily mean	563	Jul 14	545	Aug 23	59	Sep 2, 1929
Annual seven-day minimum	689	May 28	598	Aug 18	184	Sep 30, 2007
10 percent exceeds	2,380		3,980		2,630	
50 percent exceeds	1,250		1,340		1,020	
90 percent exceeds	755		754		465