Water-Data Report 2011

01512500 CHENANGO RIVER NEAR CHENANGO FORKS, NY

Upper Susquehanna Basin
Chenango Subbasin

LOCATION.--Lat 42°13′05″, long 75°50′54″ referenced to North American Datum of 1983, Broome County, NY, Hydrologic Unit 02050102, on left bank in Chenango Valley State Park, and 1.2 mi downstream from Tioughnioga River and Village of Chenango Forks.

DRAINAGE AREA.--1,483 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1912 to current year.

GAGE.--Water-stage recorder. Datum of gage is 871.63 ft above NGVD of 1929. Nov. 11, 1912 to Oct. 1, 1914, nonrecording gage and Oct. 2, 1914 to Aug. 2, 1936, water-stage recorder at site 300 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since March 1942, flood flows partly regulated by Whitney Point Lake (see station 01511000). Slight diversion from upstream tributaries for operation of Erie (Barge) Canal. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, since construction of Whitney Point Lake in 1942, 49,500 ft^3/s, Sept. 8, 2011, gage height, 14.93 ft; maximum gage height, 14.99 ft, Feb. 4, 1992 (ice jam); minimum discharge, 79 ft^3/s, Sept. 3, 4, 5, 6, 1999.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--Maximum discharge, prior to construction of Whitney Point Lake in 1942, 96,000 ft^3/s, July 8, 1935, gage height, 20.3 ft, from floodmarks, from rating curve extended above 41,000 ft^3/s on basis of slope-area measurement of peak flow; minimum discharge, 84 ft^3/s, Sept. 19, 25, 1939.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49,500 ft^3/s, Sept. 8, gage height, 14.93 ft; minimum discharge, 350 ft^3/s, Aug. 27, gage height, 2.61 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 01512500, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01512500.2011.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	18,400	2,620	6,280	1,540	e1,000	6,480	3,690	11,400	2,760	1,810	416	993
2	14,300	2,350	10,900	2,220	e985	5,450	3,730	9,540	2,310	1,540	393	827
3	9,480	2,130	9,330	2,870	e1,030	4,180	3,860	8,840	1,960	1,310	394	722
4	6,770	2,130	6,450	2,320	e1,140	3,650	6,600	13,200	1,730	1,290	472	668
5	7,500	3,560	5,170	1,940	e1,220	3,740	14,700	11,100	1,600	1,120	459	921
6	8,180	3,520	4,640	1,790	e1,330	12,300	13,800	8,170	1,500	1,010	444	2,430
7	7,160	2,840	4,130	e1,640	e1,610	13,500	11,300	5,610	1,400	954	542	15,300
8	6,360	2,510	3,750	e1,690	e1,700	12,200	9,120	4,840	1,280	955	662	44,100
9	5,140	2,550	3,150	e1,580	e1,580	10,600	7,000	4,210	1,220	957	673	25,300
10	3,530	2,490	e2,680	e1,500	e1,380	9,600	6,800	3,590	1,210	820	815	14,200
11	2,640	2,260	e2,760	e1,430	e1,300	19,500	7,450	3,070	1,180	752	601	9,110
12	2,310	2,050	3,210	e1,330	e1,250	21,600	8,560	2,690	2,200	712	512	8,810
13	2,010	1,970	7,080	e1,350	e1,300	17,900	8,930	2,370	1,820	665	431	7,740
14	1,790	1,930	5,940	e1,300	e1,410	14,500	9,250	2,160	1,310	621	407	6,700
15	2,070	1,860	4,040	e1,380	e1,550	11,800	6,860	2,150	1,170	569	417	6,350
16	6,740	1,770	3,810	e1,430	e1,560	11,200	5,530	3,610	1,060	544	470	6,070
17	7,100	4,450	3,510	e1,420	e1,650	12,000	13,500	4,280	972	522	466	5,310
18	4,820	5,080	3,220	e1,400	e2,000	14,500	13,300	3,780	1,090	515	448	4,220
19	3,840	3,740	2,830	e1,380	e4,600	16,800	11,000	4,100	1,040	541	431	3,130
20	3,130	3,460	2,540	e1,350	4,110	14,300	9,780	5,410	916	516	427	2,110
21	2,780	3,030	2,470	e1,300	3,420	12,300	7,980	4,080	848	487	433	1,840
22	2,730	2,770	2,340	e1,240	3,410	12,200	6,200	3,240	1,120	471	430	1,580
23	2,810	3,840	2,180	e1,130	2,800	10,600	8,640	2,780	3,700	462	405	1,950
24	2,560	4,730	2,020	e1,010	2,830	9,140	10,300	2,860	7,920	450	381	3,590
25	2,340	3,720	1,910	e904	2,630	7,510	8,040	2,840	5,320	431	368	3,520
26	3,260	4,770	e1,760	e876	2,540	5,500	12,200	2,440	3,440	402	361	2,630
27	4,800	5,380	e1,550	e902	2,280	4,810	11,700	3,960	2,680	402	351	2,460
28	4,730	4,060	e1,500	e966	3,340	4,250	20,900	10,100	2,420	441	2,460	6,270
29	3,580	3,360	1,620	e1,200	---	3,770	19,500	7,120	4,460	432	4,110	10,500
30	3,100	3,250	e1,540	e1,150	---	3,460	15,400	4,630	2,640	442	2,230	9,190
31	2,870	---	1,510	e1,030	---	3,530	---	3,630	---	432	1,230	---
Total	158,830	94,180	115,820	44,568	56,955	312,870	295,620	161,800	64,276	22,575	22,639	208,541
Mean	5,124	3,139	3,736	1,438	2,034	10,090	9,854	5,219	2,143	728	730	6,951
Max	18,400	5,380	10,900	2,870	4,600	21,600	20,900	13,200	7,920	1,810	4,110	44,100
Min	1,790	1,770	1,500	876	985	3,460	3,690	2,150	848	402	351	668

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,398	2,332	2,836	2,690	2,654	5,398	5,693	2,605	1,532	967	707	867
Max	7,210	6,167	7,534	7,361	7,688	12,560	15,330	6,836	7,439	5,713	3,637	6,951
(WY)	(1978)	(1928)	(1997)	(1913)	(1976)	(1936)	(1993)	(2000)	(1917)	(1935)	(2004)	(2011)
Min	155	168	525	445	472	1,977	1,317	770	312	175	133	107
(WY)	(1940)	(1965)	(1961)	(1961)	(1980)	(1937)	(1946)	(1985)	(1999)	(1939)	(1999)	(1939)

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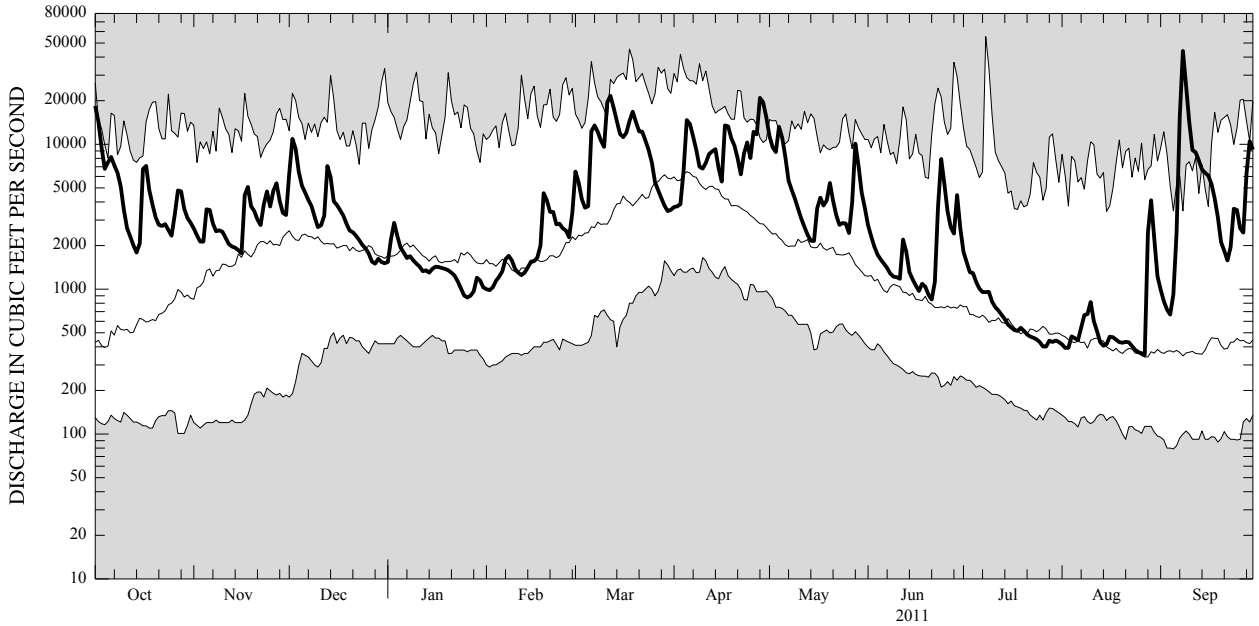
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1913 - 2011	
Annual total	897,505		1,558,674			
Annual mean	2,459		4,270		2,472	
Highest annual mean					4,270	2011
Lowest annual mean					1,307	1965
Highest daily mean	18,400	Oct 1	44,100	Sep 8	55,400	Jul 8, 1935
Lowest daily mean	314	Aug 21	351	Aug 27	79	Sep 5, 1999
Annual seven-day minimum	359	Sep 22	390	Aug 21	86	Sep 1, 1999
10 percent exceeds	5,350		10,700		6,020	
50 percent exceeds	1,710		2,640		1,370	
90 percent exceeds	429		533		311	



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.