Water-Data Report 2012

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, 14,000 ft^3/s, Jan. 27, gage height, 8.34 ft; minimum discharge, 216 ft^3/s, July 22, 23, gage height, 2.49 ft.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 01512500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/01512500.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8,330	3,050	7,170	3,960	5,140	2,650	1,660	2,000	1,140	414	443	295
2	6,950	2,790	4,930	3,900	5,690	3,320	2,150	2,360	1,610	393	464	271
3	6,450	2,530	4,180	3,550	4,720	5,300	1,990	2,440	1,740	410	491	250
4	5,100	2,380	3,720	e2,600	3,980	6,920	1,650	4,950	1,760	402	383	247
5	4,110	2,140	3,400	e2,500	3,660	4,680	1,520	4,130	2,010	373	311	290
6	3,600	1,930	3,510	2,710	3,240	3,260	1,390	2,960	1,640	332	292	315
7	2,990	1,840	4,310	2,700	2,950	3,170	1,270	2,690	1,870	326	300	293
8	2,460	1,760	4,680	2,630	2,730	3,750	1,200	4,490	1,730	318	290	320
9	2,240	1,680	3,890	2,310	2,490	7,600	1,160	8,380	1,350	313	266	463
10	2,040	1,600	3,440	2,110	2,240	6,630	1,140	5,970	1,380	299	519	418
11	1,850	1,710	3,080	2,030	2,110	4,850	1,120	4,410	1,290	289	998	357
12	1,760	1,630	2,660	3,350	1,860	4,540	1,130	3,470	1,240	273	590	290
13	1,900	1,550	2,410	5,700	1,770	4,420	1,140	2,760	2,950	267	460	269
14	2,820	1,500	2,330	5,240	1,770	4,550	1,090	2,510	2,230	263	405	257
15	5,080	2,310	2,570	e2,950	1,710	4,050	1,020	5,610	1,480	270	759	273
16	4,580	2,890	3,900	e2,500	1,660	3,540	990	5,910	1,170	272	565	270
17	5,380	3,010	3,520	3,240	1,770	3,360	1,000	3,990	999	257	562	254
18	4,550	2,670	2,680	5,570	1,830	3,030	953	2,940	882	256	484	329
19	3,510	2,230	2,240	e4,050	1,740	2,720	879	2,400	851	239	373	655
20	4,420	2,060	2,440	e3,330	1,590	3,300	841	2,060	833	243	338	629
21	4,190	1,980	3,350	e2,970	1,420	3,130	800	1,830	759	231	357	509
22	3,390	1,860	7,190	e2,700	1,380	2,570	959	1,860	694	218	347	450
23	3,060	8,190	9,230	e2,660	1,550	2,280	4,790	2,010	627	290	303	392
24	2,710	9,120	7,780	4,100	1,760	2,100	5,950	1,860	559	306	278	382
25	2,570	6,080	5,390	4,330	1,990	1,940	4,460	1,520	549	240	260	459
26	2,640	4,750	4,680	3,420	1,830	1,870	3,510	1,280	599	242	249	450
27	3,850	3,940	4,340	9,000	1,620	1,660	3,140	1,150	542	255	238	447
28	5,430	3,490	5,940	12,100	1,590	1,480	2,980	1,060	469	268	968	495
29	4,430	3,400	5,060	8,350	1,600	1,500	2,580	1,090	441	363	610	562
30	3,920	8,420	4,170	6,210	---	1,550	2,150	1,780	423	399	400	562
31	3,450	---	4,020	5,160	---	1,550	---	1,570	---	369	335	---
Total	119,760	94,490	132,210	127,930	69,390	107,270	56,612	93,440	35,817	9,390	13,638	11,453
Mean	3,863	3,150	4,265	4,127	2,393	3,460	1,887	3,014	1,194	303	440	382
Max	8,330	9,120	9,230	12,100	5,690	7,600	5,950	8,380	2,950	414	998	655
Min	1,760	1,500	2,240	2,030	1,380	1,480	800	1,060	423	218	238	247

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,423	2,340	2,850	2,705	2,651	5,379	5,655	2,609	1,529	960	704	862
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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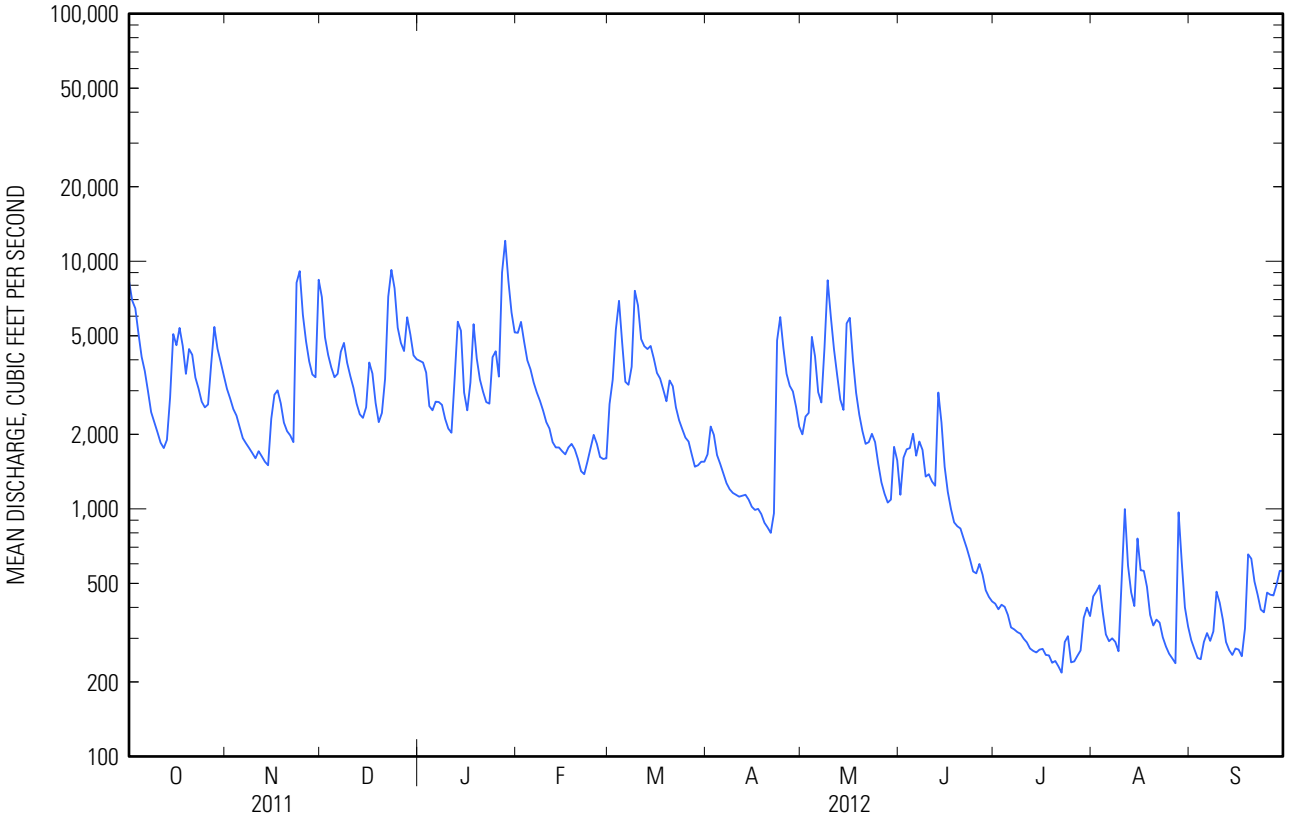
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1913 - 2012	
Annual total	1,536,304		871,400			
Annual mean	4,209		2,381		2,471	
Highest annual mean					4,270	2011
Lowest annual mean					1,307	1965
Highest daily mean	44,100	Sep 8	12,100	Jan 28	55,400	Jul 8, 1935
Lowest daily mean	351	Aug 27	218	Jul 22	79	Sep 5, 1999
Annual seven-day minimum	390	Aug 21	245	Jul 16	86	Sep 1, 1999
10 percent exceeds	10,400		5,070		6,000	
50 percent exceeds	2,670		1,880		1,370	
90 percent exceeds	533		298		311