Water-Data Report 2012

01531000 CHEMUNG RIVER AT CHEMUNG, NY

Upper Susquehanna Basin
Chemung Subbasin

LOCATION.--Lat 42°00′08″, long 76°38′05″ referenced to North American Datum of 1983, Chemung County, NY, Hydrologic Unit 02050105, on right bank 100 ft upstream from bridge on State Highway 427, 0.7 mi southwest of Chemung, and 10.0 mi upstream from mouth.

DRAINAGE AREA.--2,506 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1903 to current year (gage heights only for some winter periods).

REVISED RECORDS.--WSP 891: 1935-39. WSP 1432: 1904, 1907, 1915. WSP 2103: Drainage area. WDR NY-74-1: 1973.

GAGE.--Water-stage recorder. Datum of gage is 778.63 ft above NGVD of 1929 (levels by Corps of Engineers). Prior to Jan. 10, 1930, nonrecording gage on highway bridge 60 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. High flows significantly regulated by upstream reservoirs. During each year a large part of flow from 45.5 mi^2 of drainage area is diverted upstream from Lake Lamoka on Mud Creek, an upstream tributary, into Keuka Lake (Oswego River basin) for power development. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, since construction of Tioga, Hammond and Cowanesque Lakes in 1979, 77,800 ft^3/s, Jan. 20, 1996, gage height 19.71 ft; minimum discharge, 104 ft^3/s, Sept. 3, 1991, gage height, 2.82 ft.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--Maximum discharge, prior to construction of Tioga, Hammond and Cowanesque Lakes in 1979, 189,000 ft^3/s, June 23, 1972, gage height, 31.62 ft, from floodmark, from rating curve extended above 65,000 ft^3/s on basis of slope-area and velocity-area studies at gage height 19.57 ft, and slope-area and contracted opening measurements at gage heights 23.97 ft and 31.62 ft, respectively; minimum discharge, 49 ft^3/s, Aug. 14, 1911, gage height, 1.47 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,200 ft^3/s, Oct. 21, gage height, 9.98 ft; minimum discharge, 199 ft^3/s, Aug. 26, 27, gage height, 2.73 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 01531000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/01531000.2012.pdf

01531000 CHEMUNG RIVER AT CHEMUNG, NY—Continued

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	8,710	3,770	6,470	4,300	4,700	4,820	1,610	2,910	786	347	350	250
2	8,430	3,170	4,730	4,130	5,430	8,790	2,030	2,670	865	326	438	231
3	14,400	2,770	3,970	3,920	4,690	7,310	2,180	2,440	1,190	314	435	222
4	11,400	2,540	3,600	2,810	3,880	6,950	1,870	5,750	1,310	306	348	222
5	7,350	2,260	3,190	2,380	3,320	4,950	1,610	5,380	1,500	299	309	351
6	5,070	1,970	3,110	2,560	3,110	3,810	1,460	3,650	1,380	285	306	535
7	3,610	1,750	3,570	2,610	2,900	3,190	1,380	2,760	1,170	276	294	449
8	2,750	1,700	3,970	2,610	2,690	3,220	1,310	2,910	1,090	281	274	399
9	2,340	1,640	3,640	2,390	2,410	4,360	1,250	4,170	975	275	267	378
10	2,030	1,560	3,280	2,060	2,170	4,930	1,190	3,490	852	263	294	372
11	1,780	1,450	2,870	1,930	2,030	3,650	1,150	2,800	793	260	298	352
12	1,670	1,360	2,410	2,760	1,860	3,350	1,140	2,300	778	255	338	314
13	1,770	1,340	2,140	8,880	1,690	3,130	1,140	1,950	1,570	259	380	288
14	2,940	1,360	2,020	9,010	1,770	2,960	1,090	1,720	2,140	251	330	274
15	9,860	1,900	2,140	5,350	1,730	2,690	1,040	2,020	1,370	245	392	280
16	7,480	3,710	2,370	3,760	1,680	2,460	1,060	2,250	1,080	296	412	260
17	5,690	3,440	2,560	3,890	1,750	2,430	1,050	2,000	899	285	409	254
18	5,180	3,000	2,280	5,750	1,850	2,320	986	1,680	768	265	347	298
19	4,000	2,480	1,950	5,060	1,800	2,190	910	1,400	698	258	304	1,280
20	9,210	2,150	1,920	3,580	1,700	2,950	872	1,170	645	262	282	900
21	15,100	1,970	2,150	e2,960	1,550	3,310	847	1,050	617	279	272	622
22	8,030	1,850	4,810	e2,760	1,500	2,770	1,020	1,050	575	281	251	547
23	5,970	7,380	10,100	e2,770	1,470	2,300	1,810	1,180	530	287	236	592
24	4,660	12,500	11,900	3,470	1,540	2,080	3,890	1,180	481	279	225	469
25	3,980	7,210	7,430	4,010	1,870	2,010	5,980	1,020	465	257	217	400
26	3,260	5,270	5,830	3,350	2,070	1,970	6,530	916	452	283	207	359
27	3,410	4,470	5,180	5,960	1,790	1,810	6,410	825	425	379	208	334
28	5,750	3,840	8,360	11,600	1,660	1,650	5,790	747	412	321	323	325
29	5,100	3,720	6,990	7,200	1,640	1,560	4,180	699	386	321	333	323
30	4,600	6,200	4,990	5,490	---	1,520	3,330	763	368	329	349	315
31	4,330	---	4,710	4,750	---	1,510	---	877	---	320	284	---
Total	179,860	99,730	134,640	134,060	68,250	102,950	66,115	65,727	26,570	8,944	9,712	12,195
Mean	5,802	3,324	4,343	4,325	2,353	3,321	2,204	2,120	886	289	313	406
Max	15,100	12,500	11,900	11,600	5,430	8,790	6,530	5,750	2,140	379	438	1,280
Min	1,670	1,340	1,920	1,930	1,470	1,510	847	699	368	245	207	222

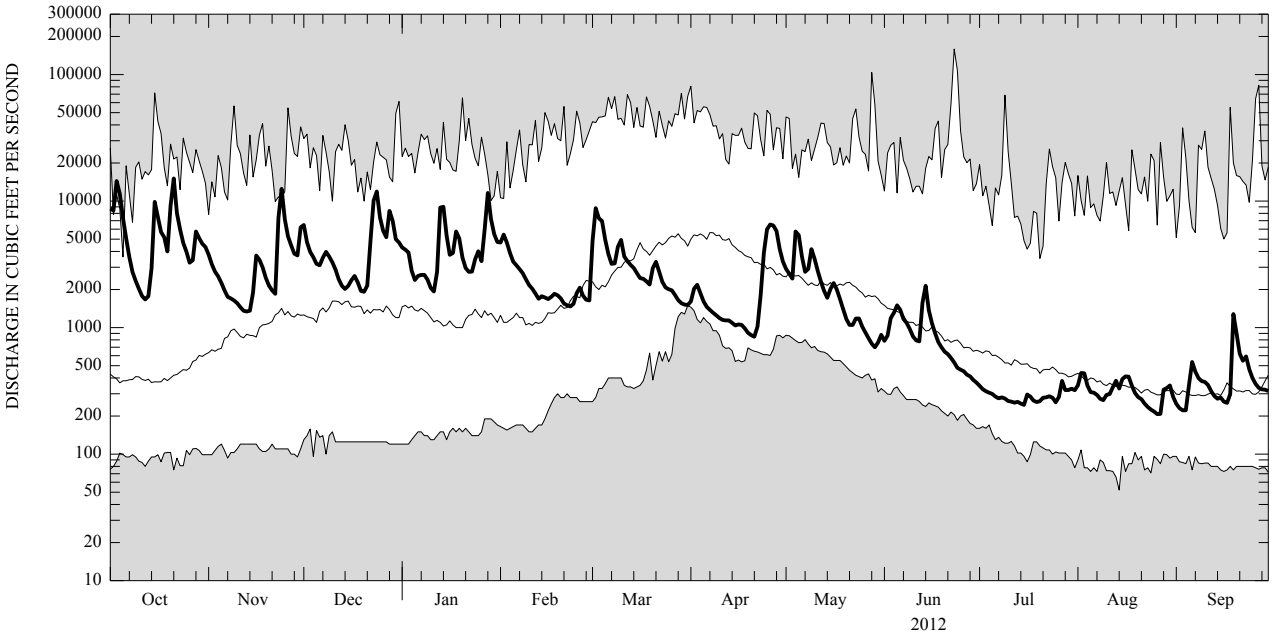
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,241	1,954	2,462	2,523	2,795	6,335	6,130	3,562	1,987	943	762	813
Max	8,408	9,126	8,752	8,569	10,090	20,910	21,600	11,500	15,720	5,885	5,001	10,270
(WY)	(1956)	(1928)	(1928)	(1996)	(1915)	(1936)	(1993)	(1919)	(1972)	(1935)	(1994)	(2004)
Min	101	114	137	207	327	1,674	925	660	275	130	124	97.3
(WY)	(1965)	(1931)	(1909)	(1931)	(1934)	(1965)	(1946)	(1934)	(1955)	(1911)	(1965)	(1932)

01531000 CHEMUNG RIVER AT CHEMUNG, NY—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1904 - 2012	
Annual total	1,878,246		908,753			
Annual mean	5,146		2,483		2,638	
Highest annual mean					4,830	2011
Lowest annual mean					1,120	1965
Highest daily mean	39,900	Mar 11	15,100	Oct 21	159,000	Jun 23, 1972
Lowest daily mean	286	Aug 3	207	Aug 26	52	Aug 14, 1911
Annual seven-day minimum	302	Jul 29	231	Aug 21	75	Aug 10, 1911
10 percent exceeds	14,500		5,750		6,210	
50 percent exceeds	2,650		1,800		1,100	
90 percent exceeds	352		285		240	



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.