Water-Data Report 2012

01529950 CHEMUNG RIVER AT CORNING, NY

Upper Susquehanna Basin
Chemung Subbasin

LOCATION.--Lat 42°08′47″, long 77°03′27″ referenced to North American Datum of 1983, Steuben County, NY, Hydrologic Unit 02050105, on right bank adjacent to Corning Glass Works power plant, 500 ft downstream from Bridge Street, 1.7 mi downstream from Cohocton River, at Corning.

DRAINAGE AREA.--2,006 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional discharge measurements, water years 1941, 1968-69. October 1974 to current year.

REVISED RECORDS.--WDR NY-78-1: 1976, 1977 (M). WDR NY-83-3: 1982 (M).

GAGE.--Water-stage recorder. Datum of gage is 900.00 ft above NGVD of 1929.

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, about 61,000 ft^3/s, Jan. 19, 1996; minimum discharge, 95 ft^3/s, Sept. 9, 10, 23, 24, 1991, gage height, 14.30 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 23, 1972, reached a stage of 40.71 ft, from floodmark; discharge 228,000 ft^3/s, from peak flows determined at upstream and downstream stations adjusted for drainage area and channel storage.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--Maximum discharge, prior to construction of Tioga, Hammond and Cowanesque Lakes in 1979, 127,000 ft^3/s, Sept. 26, 1975, gage height, 32.46 ft; minimum discharge, 210 ft^3/s, Aug. 29, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,400 ft^3/s, Oct. 20, gage height, 20.68 ft; minimum discharge, 154 ft^3/s, on several days during August and September, gage height, 14.47 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 01529950, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/01529950.2012.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	6,600	2,810	4,570	3,430	4,230	5,940	1,450	2,370	617	262	379	177
2	8,850	e2,320	3,480	3,430	4,460	5,750	1,980	2,110	848	245	375	166
3	11,400	2,210	3,140	3,070	3,610	6,040	1,790	2,190	1,190	233	248	160
4	7,270	1,990	2,850	2,170	3,060	4,770	1,490	4,270	1,180	227	209	196
5	4,730	1,770	2,580	2,120	2,700	3,500	1,270	3,490	1,240	225	198	468
6	3,220	1,470	2,700	2,200	2,550	2,720	1,190	2,490	1,070	217	192	407
7	2,290	1,370	3,050	2,280	2,350	2,600	1,120	2,010	884	223	180	327
8	1,920	1,360	3,120	2,210	2,180	2,770	1,050	2,520	852	222	174	302
9	1,720	1,300	2,830	1,940	1,990	4,230	1,000	3,070	703	217	173	309
10	1,420	1,210	2,560	1,680	1,790	3,550	941	2,470	675	212	209	298
11	1,290	1,090	2,210	1,700	1,710	2,880	924	2,070	616	203	273	253
12	1,280	1,060	1,830	3,420	e1,400	2,660	928	1,750	743	198	317	223
13	1,530	1,100	1,700	7,650	e1,350	2,620	923	1,460	2,290	200	252	205
14	3,920	1,130	1,660	5,440	e1,350	2,450	845	1,320	1,420	195	235	194
15	7,880	2,910	1,900	3,670	e1,350	2,180	841	1,570	946	228	331	193
16	4,740	2,920	2,080	e2,800	1,390	2,080	846	1,770	744	228	347	184
17	4,270	2,850	2,160	e3,100	1,520	2,090	818	1,520	603	209	280	182
18	3,590	2,320	1,770	5,280	1,570	1,940	737	1,200	538	205	237	432
19	2,810	1,980	1,620	3,570	1,520	1,970	694	935	492	192	215	855
20	11,100	1,780	1,640	e2,600	1,380	3,080	657	802	500	213	205	565
21	8,550	1,630	1,940	e2,400	1,280	2,680	700	767	453	235	196	395
22	5,230	1,570	4,460	e2,300	1,220	2,230	1,040	942	411	238	185	431
23	4,120	9,230	8,890	2,420	1,200	1,930	1,900	1,010	369	230	179	363
24	3,350	8,060	7,670	3,320	1,350	1,820	3,440	864	351	212	172	311
25	2,940	4,860	4,990	3,100	1,780	1,780	4,850	750	367	219	166	270
26	2,380	3,820	4,340	2,690	1,670	1,680	5,140	674	350	251	162	247
27	3,180	3,330	4,160	6,870	1,430	1,480	5,240	610	335	260	162	235
28	4,620	3,040	7,250	8,210	1,360	1,360	4,200	548	310	272	260	238
29	3,720	3,280	4,750	5,000	1,440	1,270	3,130	549	294	285	307	230
30	3,570	5,820	3,870	4,160	---	1,270	2,570	732	277	267	229	225
31	3,290	---	3,700	3,720	---	1,310	---	689	---	255	194	---
Total	136,780	81,590	105,470	107,950	56,190	84,630	53,704	49,522	21,668	7,078	7,241	9,041
Mean	4,412	2,720	3,402	3,482	1,938	2,730	1,790	1,597	722	228	234	301
Max	11,400	9,230	8,890	8,210	4,460	6,040	5,240	4,270	2,290	285	379	855
Min	1,280	1,060	1,620	1,680	1,200	1,270	657	548	277	192	162	160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,287	1,796	2,440	2,377	2,553	4,690	4,652	2,522	1,652	801	704	1,084
Max	5,478	6,124	5,316	6,879	7,993	11,260	16,150	7,311	5,835	3,039	3,699	7,899
(WY)	(1991)	(1997)	(2004)	(1996)	(1976)	(2011)	(1993)	(2011)	(1989)	(2003)	(2003)	(2004)
Min	157	226	240	328	537	1,284	1,599	549	214	173	153	141
(WY)	(1992)	(1999)	(1999)	(1981)	(1980)	(1981)	(1981)	(1985)	(1999)	(1991)	(1999)	(1991)

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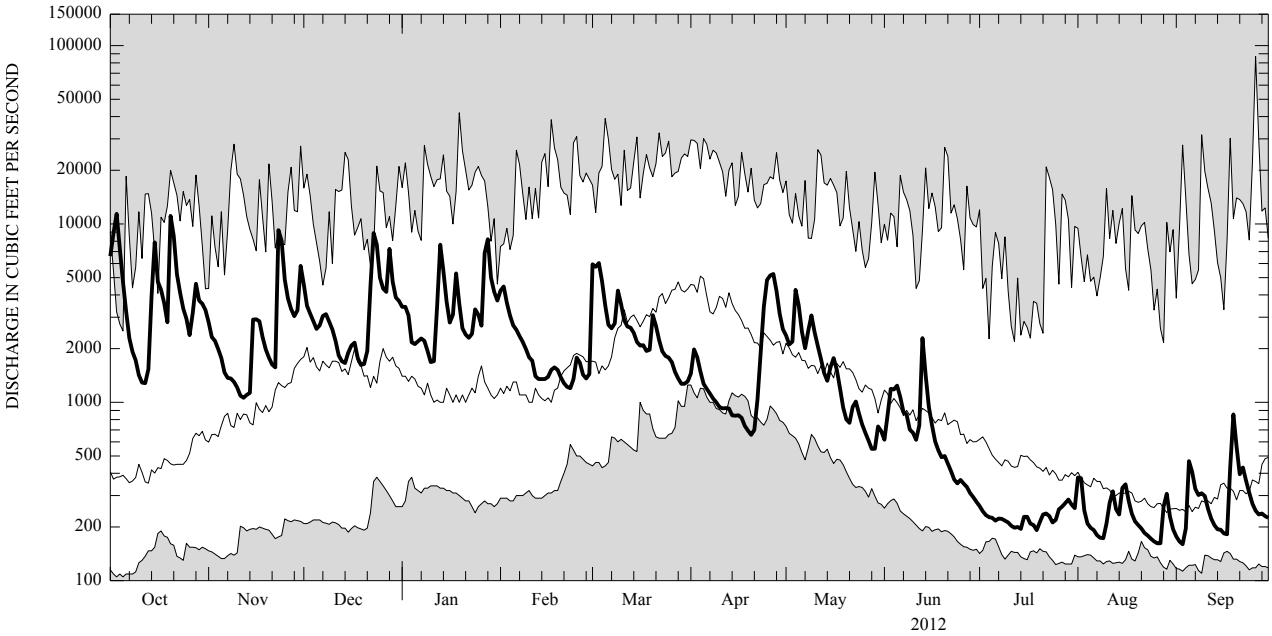
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1975 - 2012	
Annual total	1,440,197		720,864			
Annual mean	3,946		1,970		2,210	
Highest annual mean					3,812	2004
Lowest annual mean					1,203	1999
Highest daily mean	25,900	Mar 11	11,400	Oct 3	87,100	Sep 26, 1975
Lowest daily mean	207	Sep 4	160	Sep 3	105	Oct 3, 1980
Annual seven-day minimum	215	Jul 28	175	Aug 21	108	Oct 2, 1980
10 percent exceeds	11,100		4,380		5,120	
50 percent exceeds	2,160		1,460		1,040	
90 percent exceeds	266		216		236	



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.