Water-Data Report 2012

01530332 CHEMUNG RIVER AT ELMIRA, NY

Upper Susquehanna Basin
Chemung Subbasin

LOCATION.--Lat 42°05′11″, long 76°48′04″ referenced to North American Datum of 1983, Chemung County, NY, Hydrologic Unit 02050105, on right bank 350 ft upstream from bridge on Pennsylvania Avenue at the north end of George Place at Elmira and 1.0 mi downstream from Hoffman Brook.

DRAINAGE AREA.--2,162 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Annual maximum only--1988-2009, October 2009 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 833.65 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. Diversion upstream from City of Corning and Town of Horseheads for municipal supply, which may include water from several municipal and industrial wells upstream from gage. Telephone and satellite gage-height and precipitation telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 71,000 ft^3/s, Jan. 20, 1996, gage height, 18.51 ft, from floodmark (ice jam); minimum discharge, 142 ft^3/s, Aug. 21, 22, Sept. 25, 26, 27, 2010, gage height 0.87 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 19,400 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 20	2000	*16,700	*7.35

Minimum discharge, 150 ft^3/s, Aug. 27, Sept. 3, gage height, 0.78 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 01530332, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/01530332.2012.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	7,050	2,980	4,970	3,550	4,210	5,660	1,420	2,320	753	343	305	180
2	8,250	2,420	3,630	3,520	4,710	6,900	1,880	2,020	796	327	456	164
3	12,100	2,210	3,230	3,290	3,830	6,460	1,850	1,970	1,270	295	313	159
4	8,400	1,990	2,960	2,200	3,250	5,520	1,530	4,980	1,170	292	254	165
5	5,330	1,770	2,640	2,060	2,830	3,880	1,320	3,990	1,260	270	236	414
6	3,600	1,520	2,690	2,250	2,670	2,990	1,240	2,680	1,140	255	240	426
7	2,470	1,370	3,070	2,310	2,460	2,680	1,180	2,110	965	237	214	323
8	2,010	1,380	3,200	2,260	2,260	2,810	1,130	2,550	1,010	255	203	298
9	1,800	1,320	2,930	2,030	2,050	4,180	1,100	3,250	876	256	202	293
10	1,530	1,260	2,670	1,730	1,830	4,000	1,050	2,640	800	249	221	285
11	1,380	1,180	2,290	1,690	1,740	3,000	1,030	2,150	727	236	247	267
12	1,360	1,140	1,890	2,890	1,570	2,710	1,030	1,820	794	220	312	258
13	1,550	1,150	1,740	8,000	1,470	2,690	1,030	1,510	1,890	234	278	238
14	3,150	1,180	1,670	6,410	1,560	2,480	980	1,340	1,560	215	252	226
15	8,680	2,340	1,860	3,900	1,510	2,210	965	1,400	994	221	315	220
16	5,450	3,070	2,000	2,890	1,440	2,070	967	1,720	827	255	349	214
17	4,540	2,890	2,210	3,350	1,540	2,110	938	1,520	689	231	301	209
18	4,000	2,400	1,870	5,350	1,610	1,970	881	1,260	607	231	253	472
19	3,110	2,040	1,640	3,850	1,550	1,930	851	1,050	559	222	221	992
20	10,100	1,790	1,650	e2,850	1,450	2,980	822	919	559	235	215	652
21	10,300	1,660	1,870	e2,500	1,340	2,850	834	851	531	251	201	471
22	5,770	1,600	4,250	e2,380	1,310	2,360	1,040	935	479	274	189	482
23	4,460	8,210	8,700	e2,420	1,290	1,970	1,710	1,040	447	275	190	457
24	3,540	9,340	8,910	3,230	1,390	1,820	3,340	972	427	245	181	356
25	3,120	5,390	5,520	3,290	1,710	1,790	4,880	860	451	238	164	309
26	2,520	4,000	4,620	2,780	1,810	1,720	5,200	808	421	260	160	273
27	2,980	3,480	4,220	5,920	1,530	1,540	5,200	733	421	286	163	264
28	4,850	3,070	7,570	9,450	1,450	1,430	4,460	719	396	268	247	263
29	3,930	3,160	5,320	5,560	1,460	1,340	3,230	707	388	275	277	263
30	3,670	5,670	4,060	4,410	---	1,320	2,590	776	366	275	262	263
31	3,440	---	3,890	3,890	---	1,330	---	828	---	257	205	---
Total	144,440	82,980	109,740	112,210	58,830	88,700	55,678	52,428	23,573	7,983	7,626	9,856
Mean	4,659	2,766	3,540	3,620	2,029	2,861	1,856	1,691	786	258	246	329
Max	12,100	9,340	8,910	9,450	4,710	6,900	5,200	4,980	1,890	343	456	992
Min	1,360	1,140	1,640	1,690	1,290	1,320	822	707	366	215	160	159
Cfsm	2.16	1.28	1.64	1.67	0.94	1.32	0.86	0.78	0.36	0.12	0.11	0.15
In.	2.49	1.43	1.89	1.93	1.01	1.53	0.96	0.90	0.41	0.14	0.13	0.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2010 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,628	1,725	3,233	2,667	1,783	7,248	5,055	3,806	1,233	374	341	1,106
Max	4,659	2,766	4,036	3,620	2,193	12,200	11,360	7,886	1,680	477	429	2,741
(WY)	(2012)	(2012)	(2011)	(2012)	(2011)	(2011)	(2011)	(2011)	(2011)	(2010)	(2010)	(2011)
Min	788	835	2,123	883	1,120	2,861	1,856	1,691	786	258	246	249
(WY)	(2010)	(2010)	(2010)	(2011)	(2010)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2010)

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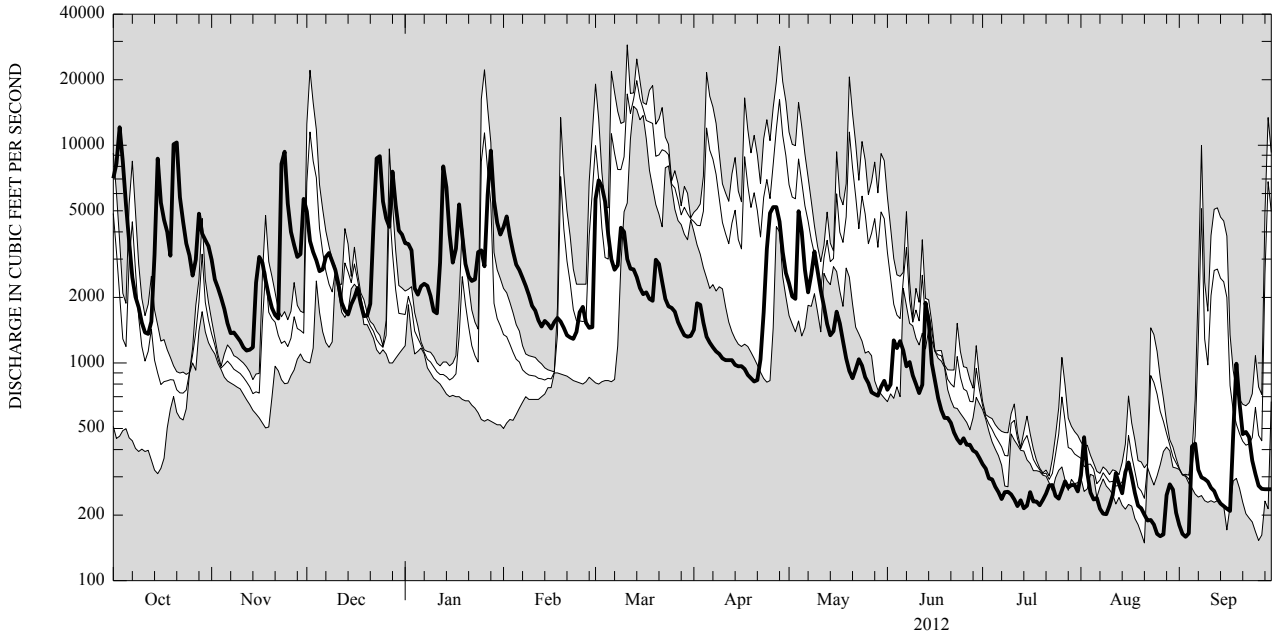
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 2010 - 2012	
Annual total	1,545,004		754,044			
Annual mean	4,233		2,060		2,609	
Highest annual mean					3,988	2011
Lowest annual mean					1,782	2010
Highest daily mean	28,900	Mar 11	12,100	Oct 3	28,900	Mar 11, 2011
Lowest daily mean	241	Aug 6	159	Sep 3	149	Aug 21, 2010
Annual seven-day minimum	276	Jul 28	178	Aug 21	178	Aug 21, 2012
Annual runoff (cfsm)	1.96		0.953		1.21	
Annual runoff (inches)	26.58		12.97		16.40	
10 percent exceeds	12,100		4,650		6,510	
50 percent exceeds	2,210		1,530		1,200	
90 percent exceeds	333		244		276	



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.