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)
Jan 31	1315	*26,400	*9.72
No other peak greater than base discharge			

Minimum discharge, 200 ft^3/s, Oct. 18, gage height, 0.87 ft.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 01530332, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/01530332.2013.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	247	5,970	547	2,060	13,700	1,860	2,840	1,610	1,020	2,760	465	791
2	241	3,370	542	1,940	10,300	1,710	3,500	1,480	912	5,410	429	747
3	243	2,300	550	1,920	7,080	1,530	2,700	1,290	894	2,910	401	518
4	238	1,800	574	1,840	4,940	1,420	2,190	1,180	833	1,690	374	358
5	235	1,440	675	1,820	4,080	1,350	1,950	1,070	761	1,220	328	319
6	240	1,160	1,350	1,810	3,560	1,280	1,830	992	719	913	298	287
7	233	1,040	1,040	1,800	2,720	1,270	1,760	911	994	791	290	274
8	234	976	1,030	1,740	2,370	1,260	1,810	882	1,200	749	316	278
9	238	892	1,340	1,710	2,070	1,280	1,930	969	984	e740	4,170	259
10	239	809	1,530	1,890	1,750	1,690	3,630	1,330	891	826	3,570	244
11	243	766	2,750	2,100	1,770	3,510	12,800	1,600	949	770	1,250	261
12	238	738	2,670	3,230	1,950	9,870	10,400	1,840	1,530	705	783	286
13	233	792	1,880	11,800	1,910	11,800	10,800	1,610	1,320	615	687	415
14	229	888	1,500	16,900	1,900	6,510	7,360	1,300	2,440	545	822	481
15	224	889	1,350	10,500	1,900	4,550	5,660	1,160	2,350	505	736	432
16	215	808	1,300	6,700	1,860	3,800	4,620	1,090	1,510	472	641	357
17	214	709	1,440	5,430	1,690	3,110	4,630	1,000	1,180	450	522	325
18	212	701	9,310	4,320	1,340	2,510	4,060	876	1,040	435	435	300
19	266	674	10,100	3,620	1,290	2,480	3,670	846	864	427	386	268
20	278	652	6,280	3,310	e1,200	2,510	4,840	827	789	396	367	257
21	274	642	8,150	2,830	e1,050	2,160	3,760	796	725	387	341	280
22	264	634	9,740	e1,810	e1,020	2,000	3,260	778	667	382	321	688
23	309	640	5,730	e1,300	1,100	1,790	2,760	796	624	1,990	332	616
24	629	646	4,380	e950	1,080	1,650	2,300	862	611	1,670	297	436
25	825	625	3,640	e800	1,060	1,660	2,520	887	681	1,060	284	380
26	671	615	3,180	e750	1,010	1,640	2,310	816	725	713	285	344
27	561	604	2,670	e700	1,150	1,660	1,920	732	655	575	297	312
28	535	591	2,450	e650	1,600	1,830	1,710	704	786	572	300	305
29	770	580	2,400	e700	---	1,890	1,670	2,050	957	728	298	313
30	13,000	563	2,340	e5,000	---	1,930	1,600	2,980	911	598	284	310
31	9,850	---	2,050	20,100	---	2,030	---	1,470	---	526	280	---
Total	32,428	33,514	94,488	122,030	78,450	85,540	116,790	36,734	30,522	32,530	20,589	11,441
Mean	1,046	1,117	3,048	3,936	2,802	2,759	3,893	1,185	1,017	1,049	664	381
Max	13,000	5,970	10,100	20,100	13,700	11,800	12,800	2,980	2,440	5,410	4,170	791
Min	212	563	542	650	1,010	1,260	1,600	704	611	382	280	244
Cfsm	0.48	0.52	1.41	1.82	1.30	1.28	1.80	0.55	0.47	0.49	0.31	0.18
In.	0.56	0.58	1.63	2.10	1.35	1.47	2.01	0.63	0.53	0.56	0.35	0.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2010 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,232	1,573	3,187	2,985	2,036	6,126	4,765	3,150	1,179	543	421	925
Max	4,659	2,766	4,036	3,936	2,802	12,200	11,360	7,886	1,680	1,049	664	2,741
(WY)	(2012)	(2012)	(2011)	(2013)	(2013)	(2011)	(2011)	(2011)	(2011)	(2013)	(2013)	(2011)
Min	788	835	2,123	883	1,120	2,759	1,856	1,185	786	258	246	249
(WY)	(2010)	(2010)	(2010)	(2011)	(2010)	(2013)	(2012)	(2013)	(2012)	(2012)	(2012)	(2010)

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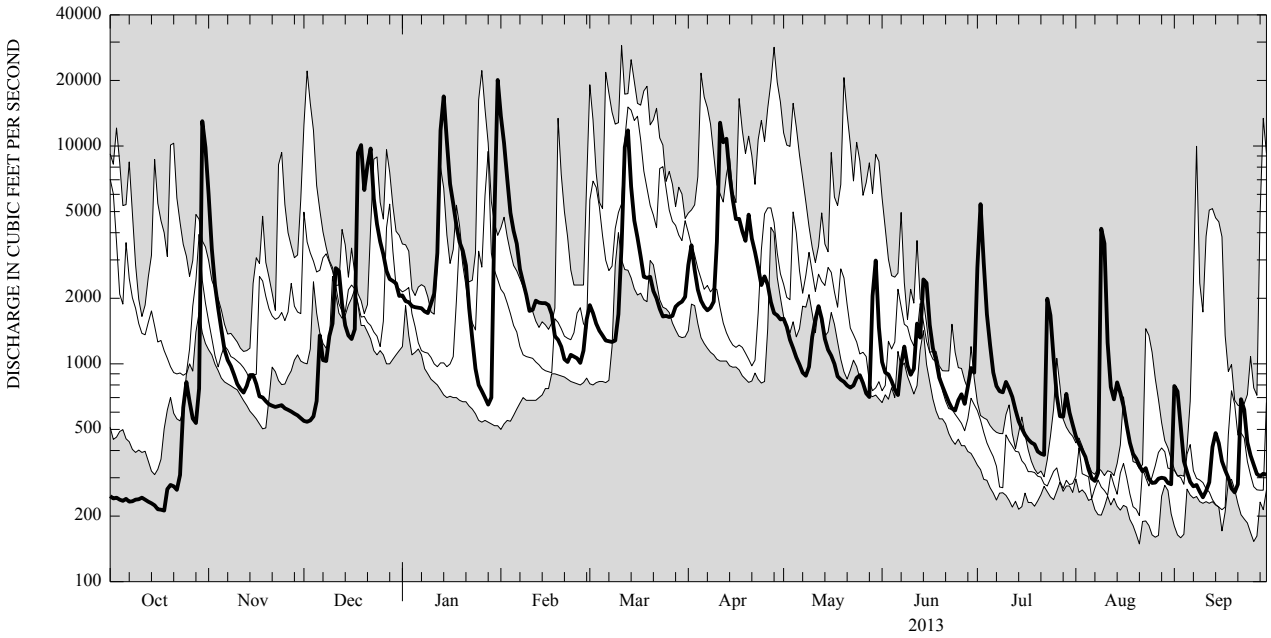
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 2010 - 2013	
Annual total	577,314		695,056			
Annual mean	1,577		1,904		2,433	
Highest annual mean					3,988	2011
Lowest annual mean					1,782	2010
Highest daily mean	13,000	Oct 30	20,100	Jan 31	28,900	Mar 11, 2011
Lowest daily mean	159	Sep 3	212	Oct 18	149	Aug 21, 2010
Annual seven-day minimum	178	Aug 21	224	Oct 12	178	Aug 21, 2012
Annual runoff (cfsm)	0.730		0.881		1.13	
Annual runoff (inches)	9.93		11.96		15.29	
10 percent exceeds	3,700		4,120		5,780	
50 percent exceeds	952		1,020		1,160	
90 percent exceeds	234		289		282	



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.