

**01529950 CHEMUNG RIVER AT CORNING, NY**

Upper Susquehanna Basin  
Chemung Subbasin

LOCATION.--Lat 42°08'47", long 77°03'28" referenced to North American Datum of 1927, Steuben County, NY, Hydrologic Unit 02050105, on right bank adjacent to Corning Glass Works power plant, 0.2 mi upstream from bridge on State Highway 414 (Centerway St.) at Corning, and 1.7 mi downstream from Cohocton River.

DRAINAGE AREA.--2,006 mi<sup>2</sup>.

**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<sup>2</sup> 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, prior to construction of Tioga Reservoir in 1979, 127,000 ft<sup>3</sup>/s, Sept. 26, 1975, gage height, 32.46 ft; minimum discharge, 210 ft<sup>3</sup>/s, Aug. 1978. Maximum discharge, since construction of Tioga Reservoir in 1979, about 61,000 ft<sup>3</sup>/s, Jan. 19, 1996; minimum discharge, 95 ft<sup>3</sup>/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<sup>3</sup>/s, from peak flows determined at upstream and downstream stations adjusted for drainage area and channel storage.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40,300 ft<sup>3</sup>/s, Mar. 15, gage height, 24.47 ft; minimum discharge, 129 ft<sup>3</sup>/s, Sept. 8, gage height, 14.41 ft.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,270	3,750	2,540	2,610	e1,300	e1,000	3,400	2,730	577	270	217	164
2	1,160	3,260	5,450	2,610	1,360	e1,800	3,450	3,520	608	262	216	161
3	1,110	2,800	3,440	2,300	e1,230	e3,500	3,030	3,340	694	259	276	147
4	1,130	2,510	2,650	2,060	e1,160	3,940	2,660	2,400	1,160	288	253	143
5	2,070	2,310	2,300	2,070	e1,050	e2,500	2,660	2,100	1,570	337	212	141
6	1,830	2,130	2,060	6,630	e950	e1,600	2,440	1,930	1,120	339	200	141
7	1,420	2,030	2,020	6,280	e900	e1,250	2,180	1,770	791	326	202	139
8	1,240	2,130	1,830	6,440	e880	e1,250	2,010	1,630	631	299	247	208
9	1,150	2,110	1,640	5,750	e860	e1,250	1,900	1,520	642	290	237	1,730
10	1,030	1,940	1,600	4,200	e840	e1,500	1,830	2,160	631	263	250	2,050
11	933	1,820	1,570	3,470	e820	2,010	1,710	3,790	545	247	248	903
12	978	6,360	1,610	3,180	e820	2,360	2,000	2,420	489	243	237	574
13	1,030	5,090	1,610	4,070	e820	e4,090	2,890	1,950	467	237	227	462
14	911	4,580	1,590	5,860	e800	e17,500	2,570	1,660	449	231	228	389
15	841	4,860	1,490	11,500	e800	30,700	2,540	1,500	403	222	206	563
16	807	7,070	1,420	14,300	e800	13,800	4,490	1,410	363	216	196	775
17	852	17,700	1,360	7,660	e820	15,200	5,290	1,400	350	217	189	477
18	1,290	10,900	1,310	5,060	e840	13,800	7,390	1,340	352	246	180	368
19	1,400	6,970	1,320	4,500	e840	11,000	9,180	1,150	351	298	173	317
20	13,800	5,230	1,260	3,730	e840	7,150	8,280	1,020	405	610	176	284
21	14,300	4,300	1,220	e2,820	e900	4,270	6,340	990	408	567	226	263
22	8,080	3,540	1,230	e2,670	e940	7,040	4,780	962	349	369	287	244
23	5,190	3,090	1,910	2,670	e960	16,800	3,810	872	323	328	424	226
24	3,800	2,700	1,930	2,560	e900	11,900	3,530	805	315	318	443	211
25	3,260	2,390	1,730	e2,200	e890	11,100	3,170	753	306	308	349	205
26	2,850	2,230	5,400	e1,600	e890	8,790	4,590	729	293	270	296	202
27	2,550	2,040	5,060	e1,600	e890	9,650	4,100	702	278	249	271	209
28	6,300	1,950	3,700	1,820	e900	6,940	4,340	725	289	277	223	255
29	8,300	1,870	2,980	e1,620	---	4,970	3,940	683	297	277	193	273
30	5,760	1,800	2,700	e1,460	---	4,160	3,190	580	288	242	175	255
31	4,230	---	2,550	e1,400	---	3,690	---	550	---	226	170	---
<b>Total</b>	100,872	121,460	70,480	126,700	26,000	226,510	113,690	49,091	15,744	9,131	7,427	12,479
<b>Mean</b>	3,254	4,049	2,274	4,087	929	7,307	3,790	1,584	525	295	240	416
<b>Max</b>	14,300	17,700	5,450	14,300	1,360	30,700	9,180	3,790	1,570	610	443	2,050
<b>Min</b>	807	1,800	1,220	1,400	800	1,000	1,710	550	278	216	170	139

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	1,232	1,867	2,352	2,395	2,538	4,465	4,733	2,503	1,734	851	735	1,137
<b>Max</b>	5,478	6,124	5,316	6,879	7,993	9,533	16,150	6,692	5,835	3,039	3,699	7,899
<b>(WY)</b>	(1991)	(1997)	(2004)	(1996)	(1976)	(1979)	(1993)	(1989)	(1989)	(2003)	(2003)	(2004)
<b>Min</b>	157	226	240	328	537	1,284	1,599	549	214	173	153	141
<b>(WY)</b>	(1992)	(1999)	(1999)	(1981)	(1980)	(1981)	(1981)	(1985)	(1999)	(1991)	(1999)	(1991)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1975 - 2007	
<b>Annual total</b>	1,066,153		879,584			
<b>Annual mean</b>	2,921		2,410		2,208	
<b>Highest annual mean</b>					3,812	2004
<b>Lowest annual mean</b>					1,203	1999
<b>Highest daily mean</b>	27,700	Sep 3	30,700	Mar 15	87,100	Sep 26, 1975
<b>Lowest daily mean</b>	316	Aug 18	139	Sep 7	105	Oct 3, 1980
<b>Annual seven-day minimum</b>	350	Aug 13	148	Sep 1	108	Oct 2, 1980
<b>10 percent exceeds</b>	6,530		5,750		5,090	
<b>50 percent exceeds</b>	1,930		1,320		1,040	
<b>90 percent exceeds</b>	798		235		233	

