

CHEMUNG RIVER BASIN

01518862 COWANESQUE RIVER AT WESTFIELD, PA

LOCATION.--Lat 41°55'23", long 77°31'56", Tioga County, Hydrologic Unit 02050104, on left bank at Westfield, 800 ft downstream from Mill Creek, and 0.5 mi upstream from bridge on State Highway 49.

DRAINAGE AREA.--90.6 mi².

PERIOD OF RECORD.--August 1983 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,337.58 ft above sea level.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 1,900 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Apr. 7	0330	1,950	4.09	Apr. 9	2000	*3,190	*5.15

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	12	e40	e43	84	e35	219	79	e17	50	4.1	5.6
2	6.6	11	e34	e42	e53	e30	206	72	e17	42	3.0	4.7
3	5.8	11	e30	e41	e48	e26	178	65	e23	23	2.7	3.8
4	15	12	e28	e40	45	e28	316	57	19	19	3.2	3.7
5	53	11	e27	e38	32	e30	514	e48	15	22	2.4	3.9
6	233	11	e25	e34	26	e32	896	44	13	19	2.2	3.0
7	82	e10	e24	e31	e21	e31	1650	39	11	e15	2.0	2.6
8	59	e10	e23	e28	e32	e29	1610	35	9.5	12	1.7	2.5
9	43	11	e23	e27	e150	e26	1450	e34	8.3	11	1.6	2.5
10	34	e30	e23	e26	e260	e24	1140	32	7.7	9.4	1.7	2.5
11	26	e32	e22	e24	e120	e24	623	29	8.6	9.0	e1.8	2.6
12	21	e23	e70	e22	e95	e26	e440	35	e9.5	7.2	1.5	2.3
13	17	e21	e50	e20	90	123	e340	e32	e14	5.8	1.8	2.6
14	16	e19	e42	e18	e95	156	e270	e30	e9.0	5.6	e1.4	8.2
15	14	e17	e38	e18	e150	105	e230	29	e8.0	5.4	e1.6	4.7
16	14	15	e42	e17	119	86	330	e23	e7.2	4.9	e1.8	3.7
17	15	e16	e620	e17	e95	e66	285	e22	17	4.8	e2.6	3.0
18	57	e16	e180	e18	e88	70	246	24	e7.8	5.3	2.4	2.9
19	37	15	e150	e16	e78	80	201	22	e6.1	4.2	2.1	2.6
20	25	14	e130	e15	e70	119	180	19	6.5	4.0	8.7	2.8
21	22	14	e120	e18	e64	145	538	18	11	3.7	3.5	3.2
22	19	e13	e110	e15	e60	195	420	e22	50	3.1	2.4	3.8
23	17	e12	e97	e13	e54	230	306	e32	218	2.7	2.8	3.1
24	16	e11	e89	e13	e51	192	249	e22	106	2.7	3.4	7.3
25	15	e11	e79	e12	e48	127	199	e20	62	2.6	2.9	77
26	15	112	e67	e12	e44	102	165	e36	41	9.6	2.5	30
27	14	e96	e61	e12	e40	92	142	e32	32	6.5	3.9	17
28	15	e72	e57	e12	e35	88	118	e50	22	4.2	6.1	12
29	14	e62	e52	e11	---	105	100	e36	17	3.8	7.4	11
30	13	e50	e48	e60	---	507	88	e26	13	3.8	4.3	9.5
31	12	---	e45	150	---	270	---	e19	---	8.3	3.8	---
TOTAL	952.4	770	2446	863	2147	3199	13649	1083	806.2	329.6	93.3	244.1
MEAN	30.7	25.7	78.9	27.8	76.7	103	455	34.9	26.9	10.6	3.01	8.14
MAX	233	112	620	150	260	507	1650	79	218	50	8.7	77
MIN	5.8	10	22	11	21	24	88	18	6.1	2.6	1.4	2.3
CFSM	.34	.28	.87	.31	.85	1.14	5.02	.39	.30	.12	.03	.09
IN.	.39	.32	1.00	.35	.88	1.31	5.60	.44	.33	.14	.04	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2001, BY WATER YEAR (WY)

MEAN	55.3	103	114	119	137	187	252	116	66.9	33.0	42.7	22.8
MAX	323	353	278	444	281	300	618	382	361	153	372	111
(WY)	1991	1997	1991	1996	1984	1997	1993	1996	1989	1984	1994	1992
MIN	4.36	6.14	8.99	13.6	21.4	91.2	91.3	17.3	5.18	3.19	1.93	2.39
(WY)	1992	1999	1999	1989	1987	1990	1988	1985	1999	1993	1999	1991

e Estimated.

CHEMUNG RIVER BASIN

01518862 COWANESQUE RIVER AT WESTFIELD, PA--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1983 - 2001	
ANNUAL TOTAL	35132.2		26582.6		104	
ANNUAL MEAN	96.0		72.8		177	
HIGHEST ANNUAL MEAN					1996	
LOWEST ANNUAL MEAN					58.4	
HIGHEST DAILY MEAN	1020	Feb 25	1650	Apr 7	e5400	Jan 19 1996
LOWEST DAILY MEAN	5.1	Sep 1	e1.4	Aug 14	.53	Sep 16 1991
ANNUAL SEVEN-DAY MINIMUM	6.6	Aug 26	a1.6	Aug 9	.78	Sep 10 1991
MAXIMUM PEAK FLOW			3190	Apr 9	b13000	Jan 19 1996
MAXIMUM PEAK STAGE			5.15	Apr 9	c11.10	Jan 19 1996
ANNUAL RUNOFF (CFSM)	1.06		.80		1.15	
ANNUAL RUNOFF (INCHES)	14.43		10.91		15.60	
10 PERCENT EXCEEDS	226		160		243	
50 PERCENT EXCEEDS	48		23		41	
90 PERCENT EXCEEDS	9.9		3.1		4.8	

- a Computed using estimated daily discharges.
- b From rating curve extended above 4,000 ft³/s.
- c From floodmark.
- e Estimated.

