

## 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 mi<sup>2</sup>.

**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 good 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 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Feb. 23	----	Unknown	Ice jam	June 13	1915	*5,700	*7.00
Feb. 27	2300	2,550	4.62				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	4.9	e90	52	e37	372	69	91	63	32	53	5.1
2	17	7.4	e80	52	e33	307	69	104	57	26	25	18
3	11	67	70	70	e30	232	100	82	54	30	15	34
4	9.9	35	69	297	e28	193	553	74	42	37	14	12
5	8.8	24	61	162	e26	167	264	72	45	25	11	9.4
6	7.1	18	76	e115	e25	141	219	63	124	19	12	7.8
7	6.0	15	64	109	e24	122	201	56	67	16	178	6.7
8	5.6	13	54	97	e23	113	592	51	46	15	47	5.9
9	5.3	12	47	89	e24	106	439	46	36	14	27	5.8
10	5.6	11	45	112	e29	101	324	52	30	18	46	5.8
11	5.0	13	45	168	e35	106	265	51	27	14	23	6.0
12	4.5	12	39	128	e45	163	228	57	80	12	41	14
13	5.9	11	39	110	e60	113	182	92	932	11	50	17
14	61	10	121	e96	e75	107	155	101	735	10	26	10
15	30	8.5	251	e85	e95	96	133	63	374	13	18	13
16	19	8.0	227	e76	e85	105	118	52	336	24	15	14
17	14	7.4	162	e70	e81	174	113	46	239	22	13	11
18	12	7.1	134	e65	e80	130	139	74	274	14	12	8.5
19	10	7.2	e110	e63	e110	119	113	600	224	12	11	7.6
20	9.1	8.0	113	e80	e100	113	109	323	161	11	9.6	6.8
21	8.0	8.3	115	e63	e94	207	191	275	183	10	8.4	12
22	7.8	7.5	e85	e50	e110	231	338	232	176	12	7.6	10
23	9.5	7.3	e84	e55	e450	183	378	203	116	10	11	8.9
24	9.5	7.1	e80	e60	e700	170	276	321	93	9.0	12	8.9
25	8.3	8.4	e74	e51	1020	156	225	284	77	8.3	9.0	8.4
26	7.3	701	e82	e45	801	137	186	185	70	7.6	7.6	9.1
27	6.3	350	e74	e42	882	119	169	152	80	7.4	7.1	11
28	6.0	187	e71	e38	986	110	150	127	55	8.5	6.9	8.8
29	6.0	141	e70	e35	488	100	122	108	45	12	7.0	7.5
30	5.8	111	69	e30	---	88	104	88	40	12	6.2	7.6
31	5.3	---	60	e33	---	77	---	73	---	11	6.0	---
TOTAL	359.6	1828.1	2761	2598	6576	4658	6524	4198	4881	482.8	735.4	310.6
MEAN	11.6	60.9	89.1	83.8	227	150	217	135	163	15.6	23.7	10.4
MAX	61	701	251	297	1020	372	592	600	932	37	178	34
MIN	4.5	4.9	39	30	23	77	69	46	27	7.4	6.0	5.1
CFSM	.13	.67	.98	.93	2.50	1.66	2.40	1.49	1.80	.17	.26	.11
IN.	.15	.75	1.13	1.07	2.70	1.91	2.68	1.72	2.00	.20	.30	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2000, BY WATER YEAR (WY)

MEAN	56.7	108	116	125	141	192	240	121	69.3	34.3	44.9	23.6
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

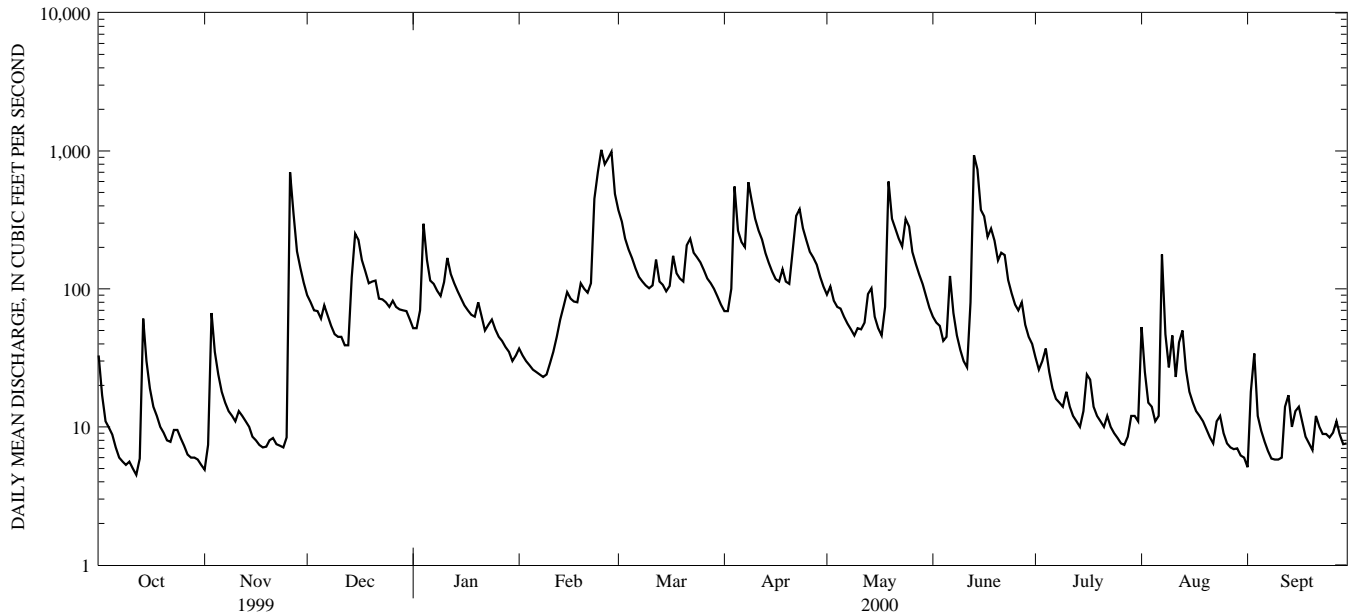
e Estimated.

CHEMUNG RIVER BASIN

01518862 COWANESQUE RIVER AT WESTFIELD, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1983 - 2000	
ANNUAL TOTAL	25497.08		35912.5			
ANNUAL MEAN	69.9		98.1		106	
HIGHEST ANNUAL MEAN					177	
LOWEST ANNUAL MEAN					58.4	
HIGHEST DAILY MEAN	e1600	Jan 24	1020	Feb 25	e5400	Jan 19 1996
LOWEST DAILY MEAN	.62	Aug 17	4.5	Oct 12	.53	Sep 16 1991
ANNUAL SEVEN-DAY MINIMUM	.92	Aug 13	5.4	Oct 7	.78	Sep 10 1991
INSTANTANEOUS PEAK FLOW			a5700	Jun 13	a13000	Jan 19 1996
ANNUAL RUNOFF (CFSM)	.77		7.00		b11.10	
ANNUAL RUNOFF (INCHES)	10.47		14.75		15.87	
10 PERCENT EXCEEDS	205		229		250	
50 PERCENT EXCEEDS	14		52		43	
90 PERCENT EXCEEDS	2.0		7.6		5.0	

- a From rating curve extended above 4,000 ft<sup>3</sup>/s.
- b From floodmark.
- e Estimated.



1-YEAR HYDROGRAPH  
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000