



2005 Water Year
CHEMUNG RIVER BASIN
01518862 Cowanesque River at Westfield, PA

Latitude: 41° 55' 23"

Longitude: 077° 31' 56"

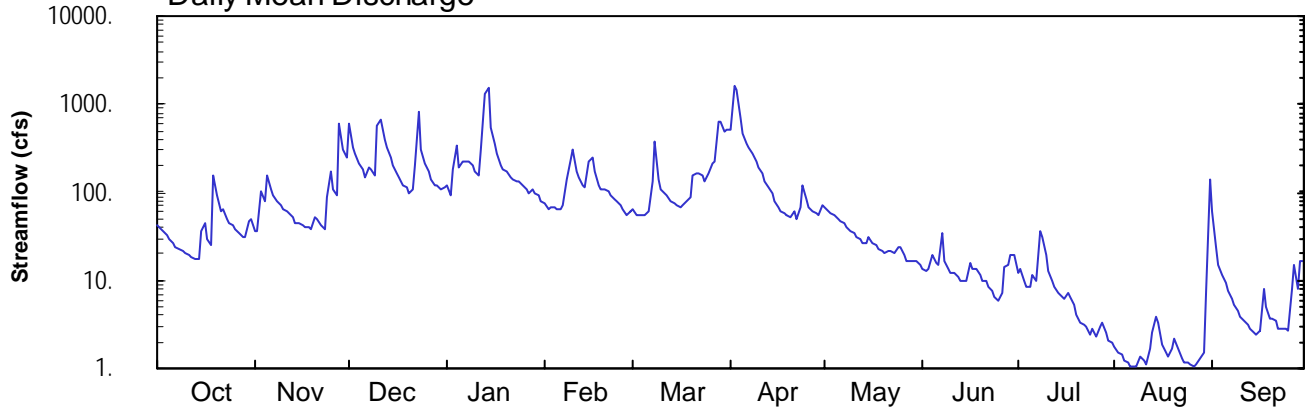
Hydrologic Unit Code: 02050104

Tioga County

Datum: 1337.58 feet

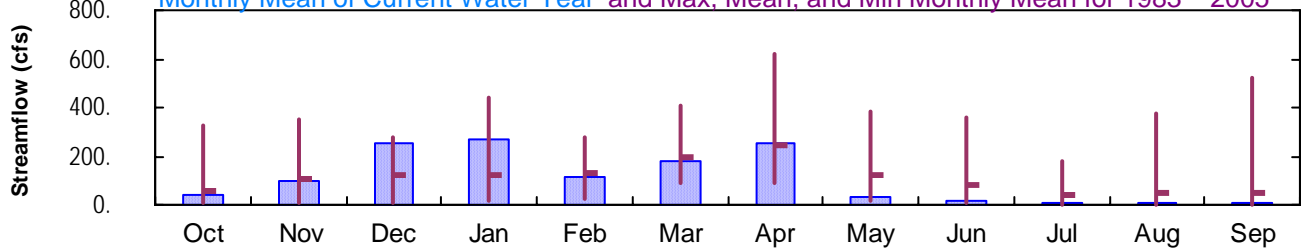
Drainage Area: 90.6 mi²

Daily Mean Discharge

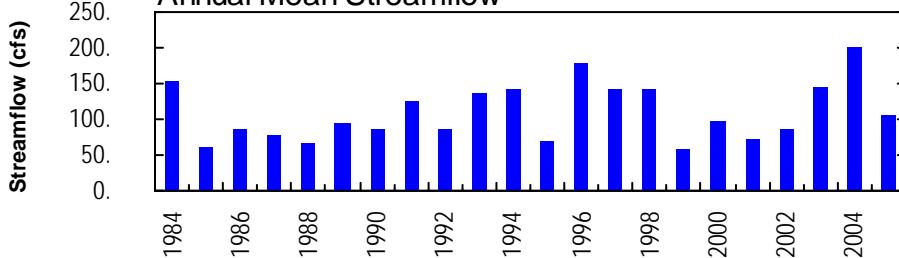


Monthly Statistics

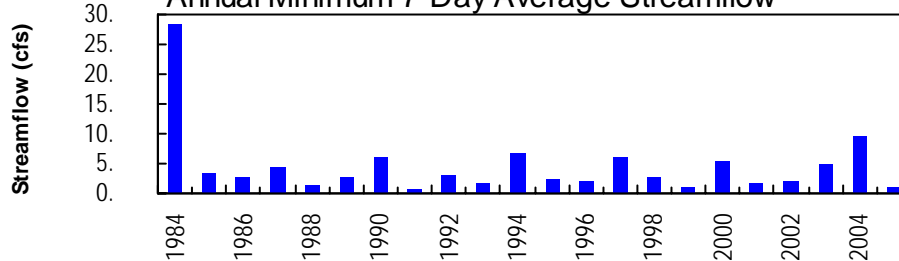
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1983 – 2005



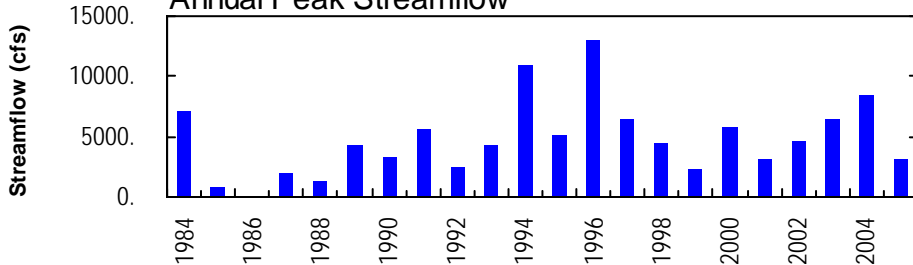
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



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 National Geodetic Vertical Datum of 1929.

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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Dec. 23	1415	2,380	4.75	Apr. 2	1645	*3,080	*5.38
Jan. 14	0445	2,930	5.26				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	37	592	119	e73	e65	519	68	14	12	1.7	62
2	39	36	328	92	e65	e55	1620	61	12	14	1.5	24
3	36	100	273	178	e67	e55	1420	58	14	10	1.4	15
4	32	81	218	334	e68	e54	700	54	20	8.2	1.3	11
5	29	160	182	191	e65	e54	463	50	15	8.3	1.2	9.2
6	26	109	150	221	e65	e61	363	46	15	11	1.1	7.5
7	24	91	195	222	e72	135	317	44	35	9.9	1.0	6.1
8	22	79	182	222	e140	379	272	41	17	37	1.1	5.3
9	21	71	152	199	e230	e140	224	37	13	31	1.4	4.6
10	20	64	585	177	e300	e110	191	34	12	19	1.2	4.0
11	20	60	663	157	e170	e100	160	31	12	12	1.1	3.4
12	18	58	401	299	e150	e93	135	29	11	10	1.7	3.1
13	18	51	329	1330	e120	e80	115	27	10	8.6	2.5	2.9
14	18	45	253	1500	114	e75	96	27	9.6	7.2	3.9	2.5
15	36	44	200	536	226	e72	80	31	10	6.4	3.3	2.4
16	44	42	167	361	253	e69	69	27	16	6.0	1.9	2.6
17	30	40	146	279	174	e72	63	25	14	7.2	1.5	8.1
18	25	40	e120	e200	e120	79	59	23	14	6.4	1.3	4.9
19	159	38	112	e180	e110	90	54	21	11	5.3	1.7	3.8
20	94	53	e95	e170	e110	153	53	21	10	4.0	2.1	3.6
21	60	49	e110	e150	102	166	63	21	9.7	3.3	1.7	3.5
22	63	41	e200	e140	94	161	49	22	8.5	3.2	1.3	2.8
23	50	38	813	e130	84	156	67	21	7.7	3.0	1.2	2.8
24	44	87	310	e130	79	134	123	24	6.6	2.4	1.2	2.9
25	43	175	e210	e120	e73	166	85	24	5.9	2.8	1.1	2.6
26	38	106	e170	e110	e65	214	69	19	7.1	2.3	1.1	8.1
27	34	92	e140	e100	e56	221	61	17	14	3.0	1.1	15
28	32	612	e120	e110	e60	650	58	16	15	3.3	1.3	7.9
29	31	304	e120	e100	---	625	56	17	20	2.5	1.5	16
30	48	244	107	e92	---	500	72	17	20	2.1	7.7	16
31	50	---	114	e80	---	514	---	15	---	1.9	141	---
TOTAL	1247	3047	7757	8229	3305	5498	7676	968	399.1	263.3	194.1	263.6
MEAN	40.2	102	250	265	118	177	256	31.2	13.3	8.49	6.26	8.79
MAX	159	612	813	1500	300	650	1620	68	35	37	141	62
MIN	18	36	95	80	56	54	49	15	5.9	1.9	1.0	2.4
CFSM	0.44	1.12	2.76	2.93	1.30	1.96	2.82	0.34	0.15	0.09	0.07	0.10
IN.	0.51	1.25	3.18	3.38	1.36	2.26	3.15	0.40	0.16	0.11	0.08	0.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2005, BY WATER YEAR (WY)

MEAN	54.6	102	122	120	127	199	244	121	80.4	39.8	51.9	51.5
MAX	323	353	278	444	281	405	618	382	361	182	372	521
(WY)	1991	1997	1991	1996	1984	2003	1993	1996	1989	2003	1994	2004
MIN	4.36	6.14	8.99	13.6	21.4	91.2	91.3	17.3	5.18	3.19	1.93	2.40
(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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1983 - 2005	
ANNUAL TOTAL	65164.2		38847.1		110	
ANNUAL MEAN	178		106		200	
HIGHEST ANNUAL MEAN					2004	
LOWEST ANNUAL MEAN					58.4	
HIGHEST DAILY MEAN	e4400	Sep 9	1620	Apr 2	e5400	Jan 19 1996
LOWEST DAILY MEAN	8.1	Jul 12	1.0	Aug 7	0.53	Sep 16 1991
ANNUAL SEVEN-DAY MINIMUM	9.5	Jul 1	1.2	Aug 5	0.78	Sep 10 1991
MAXIMUM PEAK FLOW			3080	Apr 2	a13000	Jan 19 1996
MAXIMUM PEAK STAGE			5.38	Apr 2	b11.10	Jan 19 1996
ANNUAL RUNOFF (CFSM)	1.97		1.17		1.21	
ANNUAL RUNOFF (INCHES)	26.76		15.95		16.43	
10 PERCENT EXCEEDS	346		228		255	
50 PERCENT EXCEEDS	92		49		46	
90 PERCENT EXCEEDS	25		2.7		5.2	

- a From rating curve extended above 4,000 ft³/s.
b From floodmark.
e Estimated.

