



2004 Water Year CHEMUNG RIVER BASIN

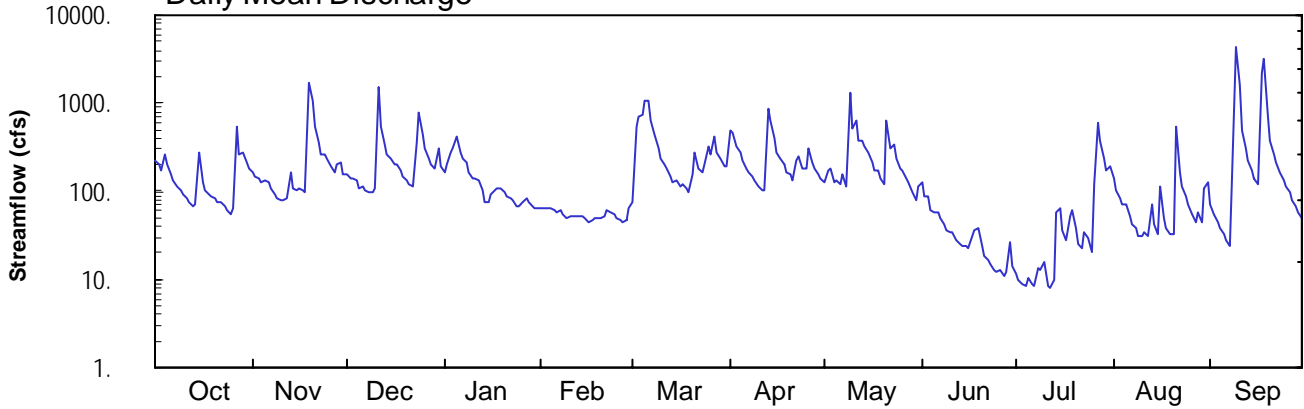
01518862 Cowanesque River at Westfield, PA

Latitude: 41° 55' 23"
Tioga County

Longitude: 077° 31' 56"
Datum: 1337.58 feet

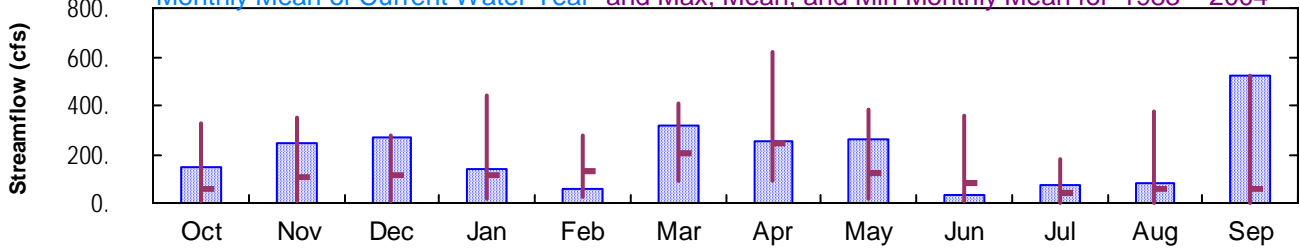
Hydrologic Unit Code: 02050104
Drainage Area: 90.6 mi²

Daily Mean Discharge

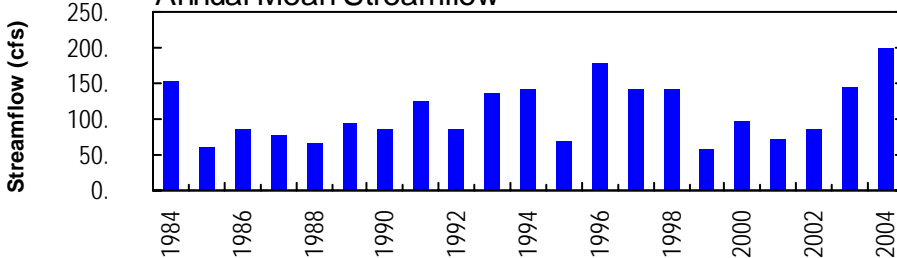


Monthly Statistics

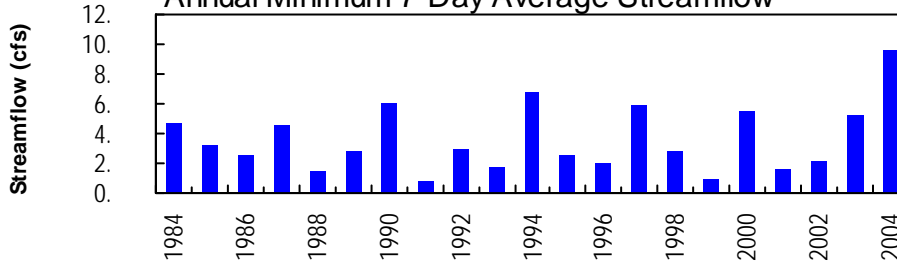
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1983 – 2004



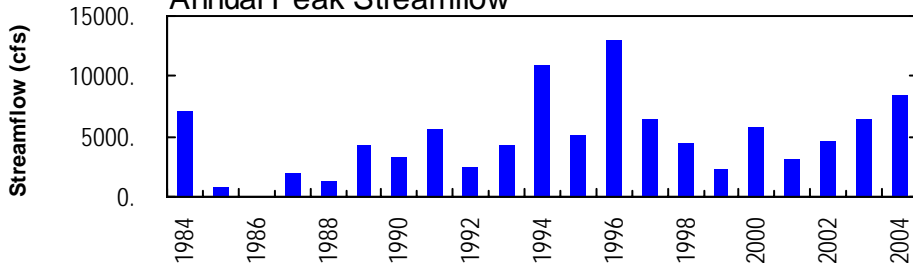
Annual Mean Streamflow



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)
Nov. 19	1545	5,600	7.14	May 9	0515	3,320	5.57
Dec. 11	0730	3,980	6.04	Sept. 9	Unknown	*8,330	*8.70
Dec. 24	1400	2,060	4.50	Sept. 18	0400	7,380	8.19
Apr. 13	2015	2,840	5.18				

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	226	162	153	168	e66	e75	492	124	125	12	139	70
2	199	151	142	197	e66	e550	462	169	88	10	104	54
3	169	140	e140	276	e64	716	319	183	87	8.9	84	45
4	267	124	e130	310	e64	738	269	126	62	8.4	71	38
5	203	130	e110	409	e60	1060	224	134	58	10	73	32
6	153	128	111	278	e59	1060	185	120	57	9.0	52	27
7	133	108	104	237	e62	642	166	153	50	8.4	43	24
8	116	95	e100	e210	e54	448	148	117	42	13	38	120
9	102	84	98	e160	e49	300	132	1320	36	13	32	e4400
10	91	79	106	e140	e53	239	114	527	34	16	31	e1600
11	82	80	1560	e140	e52	201	102	624	34	8.6	35	e500
12	74	81	532	e130	e52	180	104	385	29	8.1	30	e300
13	67	165	333	e100	e52	147	871	385	25	9.8	71	e220
14	73	106	264	e75	e53	128	647	319	25	56	41	e170
15	270	105	232	e75	e50	136	388	277	23	65	33	141
16	126	108	197	e93	e45	112	282	216	22	37	111	121
17	102	104	201	e100	e47	118	232	172	31	27	50	2260
18	92	96	175	e110	e50	106	197	176	36	52	39	3190
19	90	1680	148	e110	e50	98	165	142	37	62	33	705
20	82	1040	130	e97	e50	153	155	117	23	38	33	383
21	76	538	e120	e86	e52	279	134	647	18	25	539	267
22	74	351	115	e82	e60	178	226	302	17	23	162	208
23	68	267	349	e78	e58	161	250	331	15	34	114	164
24	61	264	798	e68	e54	200	180	237	13	30	90	135
25	55	237	445	e68	e50	317	183	184	12	20	73	114
26	66	187	303	e75	e48	262	304	173	13	119	56	95
27	554	163	242	e82	e45	410	210	137	11	590	46	79
28	260	206	202	e77	e47	282	184	124	12	382	59	68
29	273	209	183	e67	e65	233	158	97	27	232	45	57
30	215	159	310	e63	---	197	138	80	14	172	106	49
31	180	---	195	e65	---	189	---	113	---	193	126	---
TOTAL	4599	7347	8228	4226	1577	9915	7621	8211	1076	2292.2	2559	15636
MEAN	148	245	265	136	54.4	320	254	265	35.9	73.9	82.5	521
MAX	554	1680	1560	409	66	1060	871	1320	125	590	539	4400
MIN	55	79	98	63	45	75	102	80	11	8.1	30	24
CFSM	1.64	2.70	2.93	1.50	0.60	3.53	2.80	2.92	0.40	0.82	0.91	5.75
IN.	1.89	3.02	3.38	1.74	0.65	4.07	3.13	3.37	0.44	0.94	1.05	6.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2004, BY WATER YEAR (WY)

MEAN	55.3	102	116	113	127	200	243	125	83.6	41.2	54.0	53.4
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1983 - 2004	
ANNUAL TOTAL	69924		73287.2			
ANNUAL MEAN	192		200		110	
HIGHEST ANNUAL MEAN					200	
LOWEST ANNUAL MEAN					58.4	
HIGHEST DAILY MEAN	1680	Nov 19	e4400	Sep 9	e5400	Jan 19 1996
LOWEST DAILY MEAN	e12	Feb 1	8.1	Jul 12	0.53	Sep 16 1991
ANNUAL SEVEN-DAY MINIMUM	a14	Jan 28	9.5	Jul 1	0.78	Sep 10 1991
MAXIMUM PEAK FLOW			b8330	Sep 9	b13000	Jan 19 1996
MAXIMUM PEAK STAGE			8.70	Sep 9	c11.10	Jan 19 1996
ANNUAL RUNOFF (CFSM)	2.11		2.21		1.21	
ANNUAL RUNOFF (INCHES)	28.71		30.09		16.45	
10 PERCENT EXCEEDS	434		384		257	
50 PERCENT EXCEEDS	106		114		46	
90 PERCENT EXCEEDS	26		30		5.3	

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