



2005 Water Year
CHEMUNG RIVER BASIN
01516500 Core Creek near Mainesburg, PA

Latitude: 41° 47' 27"

Longitude: 077° 00' 54"

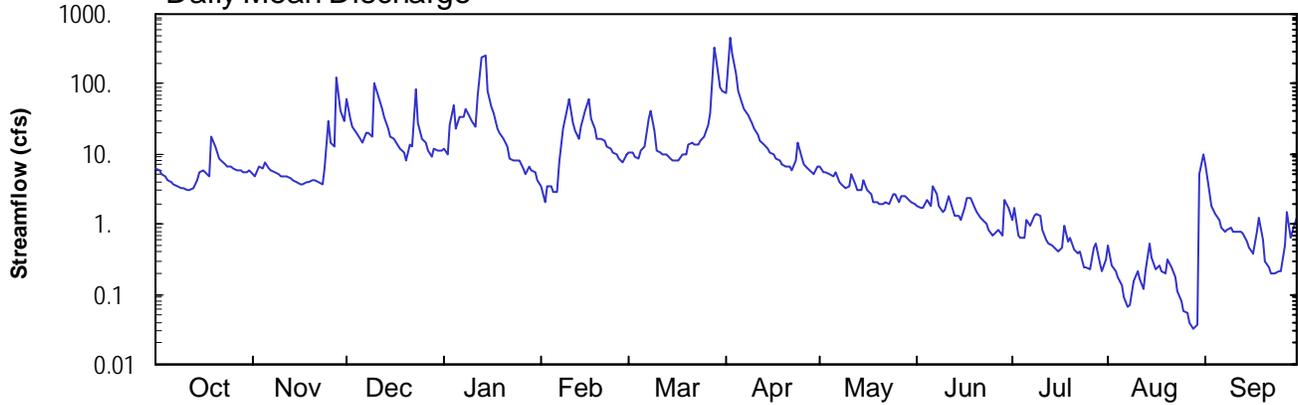
Hydrologic Unit Code: 02050104

Tioga County

Datum: 1337.50 feet

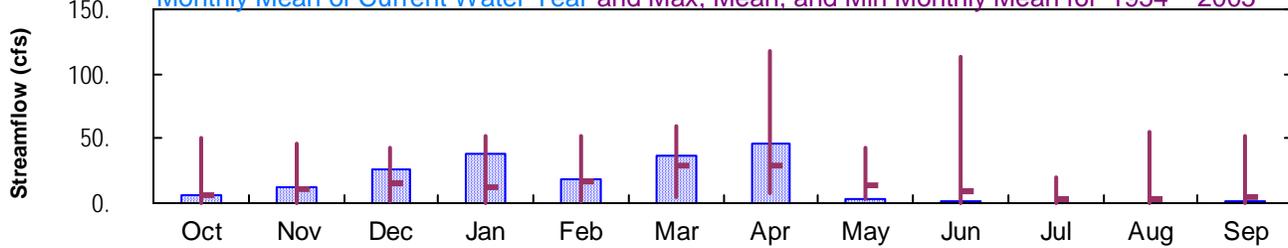
Drainage Area: 12.2 mi²

Daily Mean Discharge

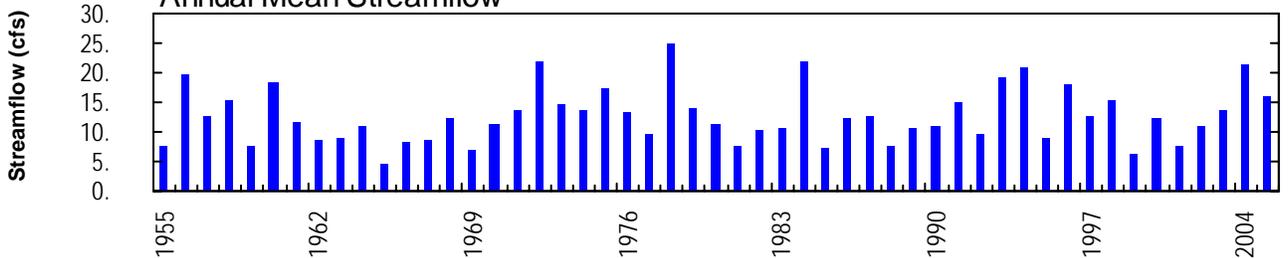


Monthly Statistics

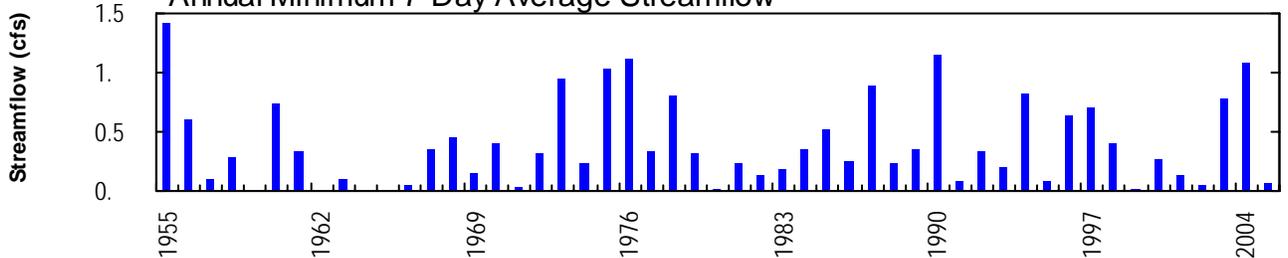
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1954 – 2005



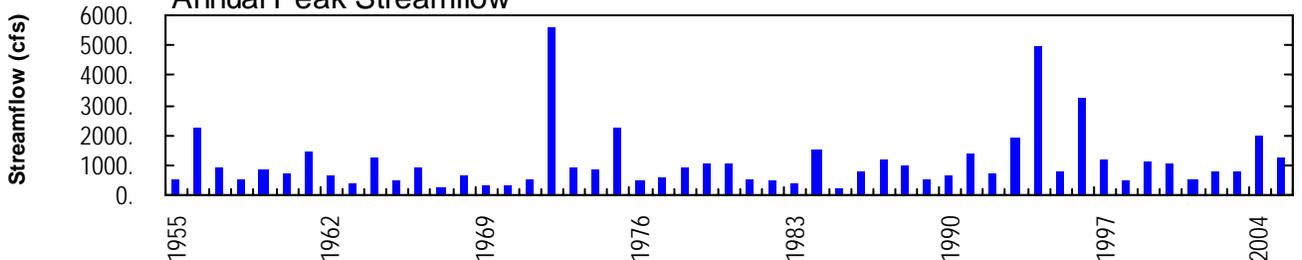
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



CHEMUNG RIVER BASIN

01516500 COREY CREEK NEAR MAINESBURG, PA

LOCATION.--Lat 41°47'27", long 77°00'54", Tioga County, Hydrologic Unit 02050104, on right bank 30 ft upstream from bridge on Township Route 818, 500 ft upstream from small left-bank tributary, 1.1 mi west of Mainesburg, 3.5 mi east of Mansfield, and 4.2 mi upstream from mouth.

DRAINAGE AREA.--12.2 mi².

PERIOD OF RECORD.--May 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,337.50 ft above National Geodetic Vertical Datum of 1929. Prior to June 28, 1954, nonrecording gage at site 30 ft downstream at same datum.

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 280 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Nov. 28	0915	409	3.90	Mar. 28	0700	644	4.66
Dec. 23	1500	284	3.40	Apr. 2	1645	*1,250	*6.26
Jan. 14	0515	555	4.39				

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	6.4	5.1	60	12	e3.4	e10	74	6.6	1.8	1.2	0.48	7.3
2	5.8	4.9	32	9.7	e2.1	e10	447	5.6	1.7	e1.7	0.25	3.1
3	5.3	6.5	25	27	e3.4	e9.1	266	5.4	1.7	e0.70	0.21	1.8
4	4.8	6.3	20	51	e3.4	e8.7	143	5.2	2.1	e0.64	0.18	1.4
5	4.1	7.7	17	23	e3.0	11	78	4.7	1.8	e0.62	0.13	1.1
6	3.9	6.3	15	34	e3.0	13	54	5.5	3.4	1.1	0.09	0.88
7	3.6	5.7	21	34	e7.4	32	45	4.1	2.8	0.95	0.06	0.78
8	3.5	5.3	20	45	e23	e40	37	3.7	1.8	1.3	0.07	0.81
9	3.3	5.0	18	34	e43	e21	29	3.3	1.5	1.4	0.15	0.87
10	3.2	4.7	104	30	60	e11	23	3.5	1.6	1.3	0.21	0.80
11	3.2	4.7	70	25	e28	e11	19	5.1	2.5	0.81	0.16	0.80
12	3.1	4.9	43	68	e21	e9.9	16	3.7	1.6	0.61	0.12	0.78
13	3.3	4.6	33	233	e16	e9.7	14	3.1	1.3	0.55	0.21	0.74
14	4.2	4.2	23	263	25	e8.5	12	3.1	1.3	0.48	0.52	0.56
15	5.3	4.0	18	79	42	e8.1	11	4.1	1.2	0.44	0.33	0.47
16	6.0	3.8	e17	48	60	e7.9	9.7	3.0	1.7	0.40	0.23	0.37
17	5.4	3.8	15	37	31	e8.1	8.9	2.7	2.4	0.45	0.27	0.77
18	4.7	4.0	e12	e23	e22	9.8	8.1	2.1	2.4	0.97	0.21	1.3
19	18	3.9	e11	e20	e16	9.9	7.2	2.0	1.7	0.56	0.20	0.59
20	13	4.2	e8.0	e17	e17	13	6.7	2.0	1.5	0.63	0.31	0.29
21	8.9	4.2	14	e13	e15	15	6.6	1.9	1.3	0.43	0.24	0.24
22	8.1	3.9	13	e8.8	13	13	5.7	2.0	1.1	0.38	0.18	0.20
23	7.2	3.6	82	e8.4	12	13	7.9	1.9	1.0	0.40	0.11	0.19
24	6.8	6.3	28	e8.0	e10	16	15	2.7	0.84	0.24	0.08	0.21
25	6.5	30	e17	e8.0	e9.9	18	9.4	2.6	e0.70	0.24	0.06	0.21
26	6.3	15	e14	e6.3	e8.9	27	7.2	2.1	e0.80	0.22	0.05	0.51
27	5.8	13	e11	e5.0	e7.6	38	6.2	2.6	0.86	0.46	0.04	1.5
28	5.7	123	e9.3	e6.7	e9.9	322	5.5	2.5	e0.70	0.53	0.03	0.66
29	5.5	42	e12	e5.9	---	228	5.2	2.4	2.2	0.28	0.04	0.83
30	5.5	30	11	e5.5	---	93	6.5	2.0	1.7	0.21	5.1	1.2
31	5.7	---	12	e4.2	---	79	---	1.9	---	0.32	9.8	---
TOTAL	182.1	370.6	805.3	1192.5	516.0	1123.7	1383.8	103.1	49.00	20.52	20.12	31.26
MEAN	5.87	12.4	26.0	38.5	18.4	36.2	46.1	3.33	1.63	0.66	0.65	1.04
MAX	18	123	104	263	60	322	447	6.6	3.4	1.7	9.8	7.3
MIN	3.1	3.6	8.0	4.2	2.1	7.9	5.2	1.9	0.70	0.21	0.03	0.19
CFSM	0.48	1.01	2.13	3.15	1.51	2.97	3.78	0.27	0.13	0.05	0.05	0.09
IN.	0.56	1.13	2.46	3.64	1.57	3.43	4.22	0.31	0.15	0.06	0.06	0.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2005, BY WATER YEAR (WY)

MEAN	6.39	10.7	14.6	12.6	16.2	28.8	29.0	14.0	9.89	3.35	3.08	4.03
MAX	51.0	45.4	42.7	52.4	52.4	60.4	118	42.7	114	19.9	55.2	51.4
(WY)	1956	1978	1974	1996	1984	1964	1993	1989	1972	1994	1994	2004
MIN	0.15	0.48	0.80	0.75	1.71	4.88	8.19	2.88	0.69	0.10	0.07	0.00
(WY)	1964	1965	1999	1961	1963	1965	1955	1999	1991	1966	1964	1964

e Estimated.

CHEMUNG RIVER BASIN

01516500 COREY CREEK NEAR MAINESBURG, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1954 - 2005	
ANNUAL TOTAL	7042.46		5798.00			
ANNUAL MEAN	19.2		15.9		12.7	
HIGHEST ANNUAL MEAN					24.9	1978
LOWEST ANNUAL MEAN					4.82	1965
HIGHEST DAILY MEAN	705	Sep 18	447	Apr 2	1910	Jun 22 1972
LOWEST DAILY MEAN	0.92	Jul 4	0.03	Aug 28	0.00	Jul 11 1955
ANNUAL SEVEN-DAY MINIMUM	1.1	Jun 30	0.06	Aug 23	0.00	Aug 17 1959
MAXIMUM PEAK FLOW			a1250	Apr 2	a5580	Jun 23 1972
MAXIMUM PEAK STAGE			6.26	Apr 2	b10.44	Jun 23 1972
ANNUAL RUNOFF (CFSM)	1.58		1.30		1.04	
ANNUAL RUNOFF (INCHES)	21.47		17.68		14.15	
10 PERCENT EXCEEDS	37		33		28	
50 PERCENT EXCEEDS	8.4		5.1		4.5	
90 PERCENT EXCEEDS	2.9		0.30		0.51	

a From rating curve extended above 490 ft³/s on basis of slope-area measurement at gage height 7.88 ft and at peak flow.
 b From floodmark.

