

**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 mi<sup>2</sup>.

**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 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)
June 5	2315	*786	*5.40	No other peak greater than base discharge.			

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	2.0	12	e5.6	26	e7.6	19	19	12	2.3	0.77	0.19
2	4.6	2.0	9.1	e5.2	19	e6.9	16	25	9.2	2.0	0.60	0.19
3	3.7	2.0	8.2	e4.8	e16	14	14	18	7.7	1.8	0.53	0.18
4	3.1	1.9	7.7	e5.2	e13	e9.7	12	15	7.5	1.5	0.44	0.15
5	2.6	1.9	6.9	7.0	e11	e7.6	11	13	68	1.4	1.2	0.12
6	3.3	1.7	6.3	4.3	e10	e8.4	11	11	338	1.2	0.93	0.11
7	3.0	1.6	5.8	4.9	9.3	8.2	9.8	11	120	1.2	0.64	0.09
8	2.4	1.6	5.2	e4.4	8.8	8.1	9.1	9.8	50	1.1	0.57	0.07
9	2.1	1.5	5.9	4.4	8.3	8.0	9.2	14	30	1.2	0.47	0.07
10	2.0	1.5	5.3	4.1	32	9.0	11	14	22	1.5	0.34	0.06
11	1.8	1.5	4.7	4.1	57	e7.0	8.4	9.5	17	1.0	0.26	0.05
12	1.7	1.4	4.2	3.8	e24	6.7	7.6	48	15	0.93	0.22	0.05
13	1.6	1.4	4.7	3.7	21	6.8	10	115	13	0.82	0.19	0.05
14	1.6	1.3	6.6	e3.6	e18	6.5	22	86	37	0.76	0.15	0.04
15	4.0	1.3	9.4	3.3	e16	5.9	46	43	51	0.69	0.11	0.24
16	2.9	1.3	7.2	3.1	15	8.7	23	29	39	0.63	0.11	1.6
17	5.5	1.3	11	3.0	14	7.5	20	23	28	0.55	0.10	0.62
18	3.6	1.3	48	e2.9	e12	8.7	18	88	21	0.52	0.09	0.37
19	3.0	1.3	25	e2.6	e10	8.3	15	40	17	0.58	0.09	0.31
20	2.7	1.7	20	e2.8	11	12	14	31	13	0.78	0.09	0.30
21	2.5	1.5	16	e3.0	13	13	12	25	11	e0.64	0.08	0.28
22	2.5	1.4	13	3.0	11	e9.6	12	21	9.2	e0.72	0.09	0.46
23	2.7	1.3	12	3.1	9.3	e9.0	11	17	7.9	0.94	0.12	3.8
24	3.4	1.3	12	18	e8.5	9.0	8.9	14	6.8	1.7	0.79	0.87
25	3.5	6.7	e9.0	15	8.3	9.1	9.8	12	5.9	1.1	0.55	0.61
26	2.9	9.3	e8.0	e9.2	8.7	81	9.5	11	5.1	0.95	0.31	0.54
27	2.7	6.3	e6.9	e9.0	10	66	8.0	9.1	4.9	0.91	0.24	9.9
28	2.5	5.7	e6.9	10	e8.3	34	42	23	5.0	3.2	0.22	8.8
29	2.3	7.3	e6.6	12	---	28	35	23	3.6	2.2	0.24	2.5
30	2.2	9.1	e6.0	19	---	24	22	17	2.9	1.3	0.28	1.4
31	2.1	---	e5.6	20	---	19	---	15	---	0.95	0.21	---
TOTAL	90.1	81.4	315.2	204.1	428.5	467.3	476.3	849.4	977.7	37.07	11.03	34.02
MEAN	2.906	2.713	10.17	6.584	15.30	15.07	15.88	27.40	32.59	1.196	0.356	1.134
MAX	5.6	9.3	48	20	57	81	46	115	338	3.2	1.2	9.9
MIN	1.6	1.3	4.2	2.6	8.3	5.9	7.6	9.1	2.9	0.52	0.08	0.04
CFSM	0.24	0.22	0.83	0.54	1.25	1.24	1.30	2.25	2.67	0.10	0.03	0.09
IN.	0.27	0.25	0.96	0.62	1.31	1.42	1.45	2.59	2.98	0.11	0.03	0.10

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2002, BY WATER YEAR (WY)**

MEAN	6.268	10.49	14.01	12.01	16.69	28.56	28.82	14.17	9.703	3.065	2.820	2.877
MAX	51.0	45.4	42.7	52.4	52.4	60.4	118	42.7	114	19.9	55.2	44.4
(WY)	1956	1978	1974	1996	1984	1964	1993	1989	1972	1994	1994	1975
MIN	0.15	0.48	0.80	0.75	1.71	4.88	8.19	2.88	0.69	0.10	0.074	0.000
(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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1954 - 2002	
ANNUAL TOTAL	2932.39		3972.12		12.4	
ANNUAL MEAN	8.03		10.9		24.9	
HIGHEST ANNUAL MEAN					1978	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	148	Mar 30	338	Jun 6	1910	Jun 22 1972
LOWEST DAILY MEAN	0.11	Aug 15	0.04	Sep 14	0.00	Many days
ANNUAL SEVEN-DAY MINIMUM	0.14	Aug 9	0.06	Sep 8	0.00	Aug 17 1959
MAXIMUM PEAK FLOW			a786	Jun 5	a5580	Jun 23 1972
MAXIMUM PEAK STAGE			5.40	Jun 5	b10.44	Jun 23 1972
ANNUAL RUNOFF (CFSM)	0.66		0.89		1.02	
ANNUAL RUNOFF (INCHES)	8.94		12.11		13.85	
10 PERCENT EXCEEDS	21		23		28	
50 PERCENT EXCEEDS	2.6		5.9		4.3	
90 PERCENT EXCEEDS	0.67		0.31		0.50	

a From rating curve extended above 490 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 7.88 ft and at peak flow.  
 b From floodmark.

