

**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 sea level. Prior to June 28, 1954, nonrecording gage at site 30 ft downstream at same datum.

**REMARKS.**--Records fair 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)
Jan. 18	--	Unknown	Ice jam	Mar. 3	2330	*1,140	*6.18
Jan. 23	--	Unknown	Ice jam				

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999  
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	.59	.80	e.52	e8.0	5.1	24	7.1	.67	.47	.60	.10
2	.33	.56	.72	e.50	e12	4.5	28	6.1	.75	.43	.47	.06
3	.33	.56	.68	e.80	e14	111	23	5.4	.92	.30	.43	.05
4	.43	.56	.67	e1.2	e13	187	33	4.8	.82	.18	.33	.05
5	.43	.56	.67	e1.1	e12	e54	24	4.5	.63	.12	.19	.05
6	.43	.56	.67	e1.0	e11	e35	19	4.2	.51	.09	.06	.07
7	.39	.60	.75	e.96	e10	e26	16	3.8	.90	.09	.04	7.7
8	2.2	.61	.67	e.80	e9.0	e20	13	5.6	1.7	.07	.04	1.3
9	5.2	.61	.67	e.84	8.6	e16	48	5.8	.76	.09	.05	.65
10	6.8	.64	.67	e.90	8.0	e15	32	4.3	.60	.49	.03	.51
11	2.4	1.2	.67	e.94	7.6	e14	25	3.6	.65	.38	.03	.30
12	1.2	1.1	.59	e1.0	9.7	e12	27	3.2	.55	.19	.02	.22
13	.90	.83	.57	e1.1	9.6	e11	19	2.8	.47	.13	.03	.19
14	.78	.72	e.60	e1.3	e8.6	e10	15	2.6	.64	.13	.03	.20
15	.64	.71	e.58	e1.5	e8.0	e9.4	13	2.2	.81	.12	.02	.35
16	.62	.67	e.62	e1.6	e11	e10	16	2.1	.59	.09	.02	14
17	.62	.67	.65	e1.6	14	e17	18	1.9	1.2	.06	.02	23
18	.54	.67	.68	e2.0	12	e30	14	1.9	2.0	.06	.02	6.4
19	.56	.67	.62	e8.0	9.5	e26	13	1.6	1.0	.06	.02	4.1
20	.57	.85	.61	e5.2	e8.0	e16	13	1.6	.75	.06	.10	3.2
21	.56	1.1	.64	e4.0	e7.0	e17	11	1.4	.56	.06	.07	3.8
22	.56	.88	e2.5	e4.5	e5.8	e20	10	1.3	.45	.04	.04	3.3
23	.56	.84	e2.7	e25	e5.4	e17	34	1.5	.33	.03	.02	2.6
24	.56	.71	e1.0	e130	e5.2	e16	27	1.6	.29	.03	.02	2.1
25	.56	.67	e.90	43	e5.0	e19	18	1.8	.24	.04	.02	1.9
26	.56	.90	e.80	e24	e4.5	e16	16	1.5	.27	.05	.10	1.7
27	.56	.96	e.70	e20	e4.0	e15	13	1.3	.19	.03	.05	1.6
28	.61	.84	e.66	e17	4.8	e16	11	1.1	.61	.03	.04	1.6
29	.68	.74	e.62	e15	---	e17	9.4	1.0	.69	.03	.11	1.6
30	.61	.72	e.60	e13	---	e18	7.9	.85	.64	.13	.14	12
31	.61	---	e.56	e10	---	e19	---	.73	---	.71	.11	---
TOTAL	32.16	22.30	24.84	338.36	245.3	819.0	590.3	89.18	21.19	4.79	3.27	94.70
MEAN	1.04	.74	.80	10.9	8.76	26.4	19.7	2.88	.71	.15	.11	3.16
MAX	6.8	1.2	2.7	130	14	187	48	7.1	2.0	.71	.60	23
MIN	.33	.56	.56	.50	4.0	4.5	7.9	.73	.19	.03	.02	.05
CFSM	.09	.06	.07	.89	.72	2.17	1.61	.24	.06	.01	.01	.26
IN.	.10	.07	.08	1.03	.75	2.50	1.80	.27	.06	.01	.01	.29

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1999, BY WATER YEAR (WY)**

MEAN	6.52	10.9	14.3	12.5	16.8	29.2	28.5	14.2	9.34	3.16	2.97	2.86
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	.15	.48	.80	.75	1.71	4.88	8.19	2.88	.69	.10	.074	.000
(WY)	1964	1965	1999	1961	1963	1965	1955	1999	1991	1966	1964	1964

e Estimated.

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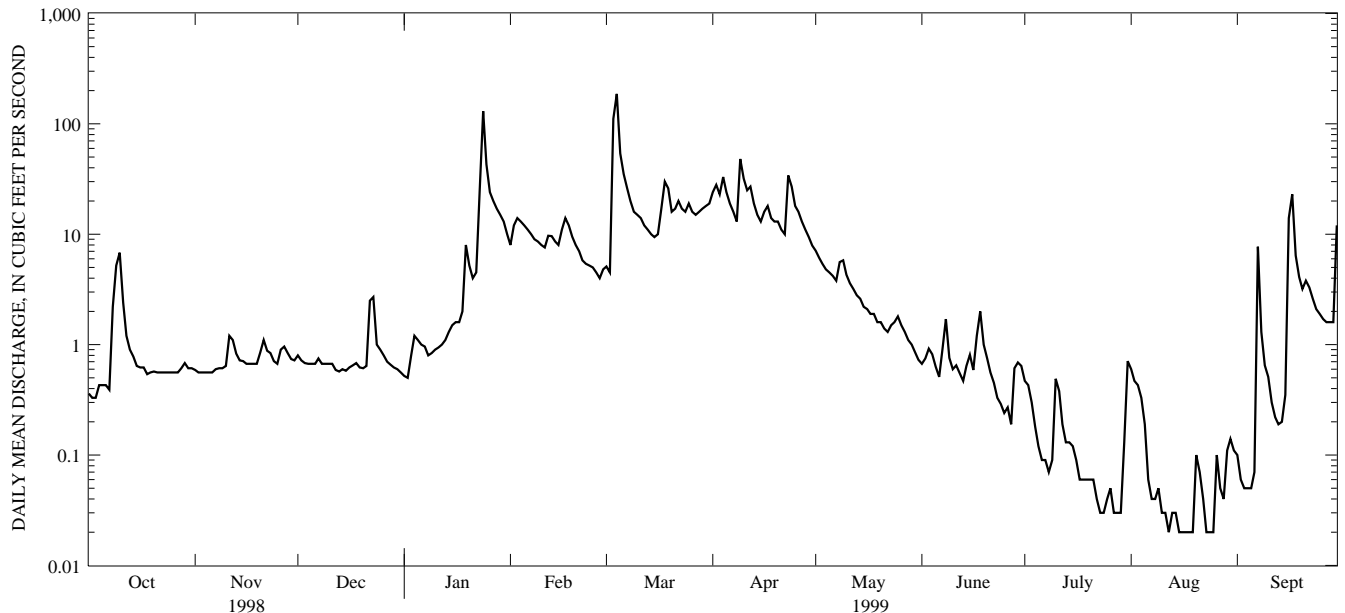
01516500 COREY CREEK NEAR MAINESBURG, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1954 - 1999	
ANNUAL TOTAL	4926.94		2285.39			
ANNUAL MEAN	13.5		6.26		12.6	
HIGHEST ANNUAL MEAN					24.9	1978
LOWEST ANNUAL MEAN					4.82	1965
HIGHEST DAILY MEAN	193	Feb 18	187	Mar 4	1910	Jun 22 1972
LOWEST DAILY MEAN	.33	Oct 2,3	.02	Aug 12 <sup>a</sup>	.00	Many days
ANNUAL SEVEN-DAY MINIMUM	.37	Sep 27	.02	Aug 12	.00	Aug 17 1959
INSTANTANEOUS PEAK FLOW			b1140	Mar 3	b5580	Jun 23 1972
INSTANTANEOUS PEAK STAGE			6.18	Mar 3	c10.44	Jun 23 1972
ANNUAL RUNOFF (CFSM)	1.11		.51		1.03	
ANNUAL RUNOFF (INCHES)	15.02		6.97		14.02	
10 PERCENT EXCEEDS	37		17		28	
50 PERCENT EXCEEDS	3.5		.88		4.3	
90 PERCENT EXCEEDS	.54		.06		.48	

a Also, Aug. 15-19, 23-25.

b 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.

c From floodmark.



1-YEAR HYDROGRAPH  
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999