

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 sea level. 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)
Mar. 30	0730	309	3.92	Apr. 9	2045	*538	*4.72

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.71	1.3	2.2	e3.1	e4.0	e3.6	26	7.5	1.3	10	.53	2.4
2	.65	1.3	e2.0	e2.9	e2.6	e3.0	22	6.7	1.7	7.2	.43	1.1
3	.61	1.3	e1.9	e2.7	e2.2	2.4	21	6.1	3.0	3.8	.37	.82
4	.88	1.3	e1.8	e2.4	e1.7	e3.2	30	5.4	1.9	5.8	.36	.89
5	2.1	1.3	e1.7	e2.0	e1.5	e3.4	33	4.9	1.5	6.5	.31	.93
6	6.6	1.3	e1.6	e1.8	e1.4	e3.6	57	4.3	1.3	4.6	.22	.66
7	2.7	1.3	1.5	e1.7	e1.5	e3.2	77	3.6	1.2	3.0	.17	.54
8	2.0	1.3	1.4	e1.6	e2.0	e2.8	96	3.2	1.1	3.7	.14	.43
9	1.7	1.2	1.5	e1.5	e4.0	e2.5	143	3.2	.98	2.7	.12	.37
10	1.5	2.4	e1.4	e1.2	e6.0	e2.4	118	2.8	.92	2.1	.15	.48
11	1.4	3.5	e1.3	e1.1	e6.8	e2.4	59	2.4	.92	1.9	.18	.67
12	1.3	2.5	e1.9	e1.2	e3.2	e2.6	42	4.0	.96	1.5	.15	.49
13	1.2	2.1	e1.7	e1.1	e3.0	e24	31	2.5	1.1	1.4	.13	.47
14	1.1	2.0	e1.6	e1.0	e4.4	25	25	2.0	.87	1.2	.13	6.5
15	1.1	1.9	e1.7	e1.1	e9.0	15	21	1.9	.75	1.1	.11	2.0
16	1.1	1.8	e4.0	e1.2	e7.3	11	31	1.7	5.6	1.0	.17	1.2
17	1.3	1.7	e62	e1.1	e6.0	14	28	1.7	4.0	1.0	3.7	.98
18	4.9	1.6	e13	e1.0	e5.0	19	25	1.9	1.6	1.0	.92	.88
19	3.5	1.5	e11	e1.0	e5.4	e20	20	1.7	1.1	.88	.62	.79
20	2.4	1.5	e9.0	e1.2	e4.2	e24	17	1.4	8.7	.78	1.0	.88
21	2.0	1.5	e8.0	e1.3	e4.2	23	38	1.4	7.1	.65	.77	1.1
22	1.8	1.4	e7.0	e1.1	e3.6	27	36	1.6	6.9	.54	.53	.96
23	1.6	1.3	e6.5	e1.1	e3.8	47	25	2.3	76	.46	.56	.79
24	1.5	e1.3	e6.0	e1.0	3.9	26	22	1.6	27	.42	.69	40
25	1.5	1.3	e5.5	e.96	4.8	e15	18	1.4	14	.62	.52	94
26	1.5	2.2	e5.0	e.95	e4.0	e10	15	3.7	9.2	2.9	.38	23
27	1.4	3.6	e4.6	e.94	e4.8	e9.6	13	3.5	6.6	1.1	.59	13
28	1.5	3.0	e4.2	e.90	e3.8	e10	11	3.7	4.6	.83	.82	12
29	1.4	2.5	e3.8	e.90	---	13	9.1	2.3	3.5	.67	1.2	9.5
30	1.3	2.4	e3.6	e6.0	---	148	8.1	1.8	2.6	.62	.74	7.2
31	1.3	---	e3.3	e10	---	37	---	1.4	---	.62	.71	---
TOTAL	55.55	54.6	181.7	57.05	114.1	552.7	1117.2	93.6	198.00	70.59	17.42	225.03
MEAN	1.79	1.82	5.86	1.84	4.07	17.8	37.2	3.02	6.60	2.28	.56	7.50
MAX	6.6	3.6	62	10	9.0	148	143	7.5	76	10	3.7	94
MIN	.61	1.2	1.3	.90	1.4	2.4	8.1	1.4	.75	.42	.11	.37
CFSM	.15	.15	.48	.15	.33	1.46	3.05	.25	.54	.19	.05	.61
IN.	.17	.17	.55	.17	.35	1.69	3.41	.29	.60	.22	.05	.69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2001, BY WATER YEAR (WY)

MEAN	6.34	10.7	14.1	12.1	16.7	28.9	29.1	13.9	9.23	3.10	2.87	2.91
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1954 - 2001	
ANNUAL TOTAL	4039.84		2737.54			
ANNUAL MEAN	11.0		7.50		12.5	
HIGHEST ANNUAL MEAN					24.9	1978
LOWEST ANNUAL MEAN					4.82	1965
HIGHEST DAILY MEAN	389	Apr 4	148	Mar 30	1910	Jun 22 1972
LOWEST DAILY MEAN	.20	Aug 22	.11	Aug 15	.00	Many days
ANNUAL SEVEN-DAY MINIMUM	.27	Aug 17	.14	Aug 9	.00	Aug 17 1959
MAXIMUM PEAK FLOW			a538	Apr 9	a5580	Jun 23 1972
MAXIMUM PEAK STAGE			4.72	Apr 9	b10.44	Jun 23 1972
ANNUAL RUNOFF (CFSM)	.90		.61		1.02	
ANNUAL RUNOFF (INCHES)	12.32		8.35		13.89	
10 PERCENT EXCEEDS	27		21		28	
50 PERCENT EXCEEDS	3.5		2.0		4.2	
90 PERCENT EXCEEDS	.64		.65		.50	

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.

