

SURFACE-WATER RECORDS

NORTH ATLANTIC SLOPE BASINS

SUSQUEHANNA RIVER BASIN

CHEMUNG RIVER BASIN

01516350 TIOGA RIVER NEAR MANSFIELD, PA

LOCATION.--Lat 41°47'49", long 77°04'50", Tioga County, Hydrologic Unit 02050104, on left bank on Township Route 754, 0.9 mi downstream from Slate Creek, and 0.7 mi south of Mansfield. Prior to May 25, 1999, at site 0.3 mi upstream.

DRAINAGE AREA.--153 mi².

PERIOD OF RECORD.--July 1976 to current year.

REVISED RECORDS.--WDR PA-84-2: 1980-83 (P).

GAGE.--Water-stage recorder. Datum of gage is 1,121.28 ft above sea level. Prior to May 25, 1999, at site 0.3 mi upstream at same datum.

REMARKS.--Records good except those for the period Oct. 1 to July 17, which are fair, and those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in September 1975 reached an approximate stage of 20.1 ft, from floodmarks, site then in use, from original site 0.3 mi upstream, discharge, about 18,000 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Apr. 9	2245	*4,300	*8.09	No other peak greater than base discharge.			

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	13	18	41	e66	e94	59	438	152	56	72	17	62
2	12	18	e36	e64	e60	60	379	139	60	128	18	48
3	12	18	e36	e58	e58	56	331	128	83	63	16	32
4	14	18	e34	e52	e55	52	383	118	78	64	16	31
5	23	18	e34	e50	e47	55	510	109	62	73	15	49
6	74	17	e32	e48	e44	56	825	100	53	56	14	34
7	51	17	e30	e46	e44	63	1250	91	48	50	13	26
8	35	17	e26	e44	e42	54	1470	85	44	45	13	22
9	28	18	e25	e44	e60	56	1780	83	40	53	12	20
10	25	26	e24	e44	e260	52	1960	76	38	44	17	21
11	28	52	e32	e42	e200	49	1040	72	39	42	19	25
12	22	56	e34	e40	e120	49	792	76	39	39	15	22
13	18	43	e42	e40	e140	234	631	73	45	37	13	20
14	17	37	e43	e39	e170	280	483	64	38	35	12	126
15	16	33	e46	e38	e190	184	403	60	33	38	11	86
16	16	31	e50	e38	e140	143	552	54	33	32	12	54
17	17	29	e920	e38	e120	155	468	52	105	31	65	41
18	65	28	525	e37	e100	208	408	55	65	34	35	35
19	72	26	295	e36	e110	209	338	53	49	29	23	37
20	46	26	211	e36	109	245	301	47	71	26	30	34
21	35	24	153	e38	101	265	418	45	79	23	27	47
22	30	e22	e140	e32	e55	376	566	46	75	21	20	38
23	26	e21	e120	e28	e65	430	403	56	678	20	20	31
24	24	e20	e120	e32	e72	366	347	53	527	19	20	389
25	23	e22	e110	e36	77	250	291	43	214	18	25	1660
26	22	31	e100	e34	89	203	250	87	128	25	18	671
27	22	60	e93	e30	e83	165	226	96	85	26	18	367
28	21	62	e84	e28	66	163	204	97	66	25	22	278
29	20	51	e77	e26	---	178	179	75	52	22	42	225
30	19	46	e73	e48	---	1040	165	64	42	19	31	176
31	18	---	e68	e120	---	606	---	66	---	18	25	---
TOTAL	864	905	3654	1352	2771	6361	17791	2415	3025	1227	654	4707
MEAN	27.9	30.2	118	43.6	99.0	205	593	77.9	101	39.6	21.1	157
MAX	74	62	920	120	260	1040	1960	152	678	128	65	1660
MIN	12	17	24	26	42	49	165	43	33	18	11	20
CFSM	.18	.20	.77	.29	.65	1.34	3.88	.51	.66	.26	.14	1.03
IN.	.21	.22	.89	.33	.67	1.55	4.33	.59	.74	.30	.16	1.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2001, BY WATER YEAR (WY)

MEAN	132	205	223	226	253	412	510	239	157	77.0	74.7	59.9
MAX	653	620	666	943	682	832	1968	630	550	375	839	196
(WY)	1991	1978	1997	1996	1996	1978	1993	1978	1989	1994	1994	1996
MIN	13.3	17.5	20.5	36.2	57.2	148	156	77.9	25.1	17.5	12.5	12.6
(WY)	1983	1999	1999	1981	1987	1981	1988	2001	1991	1999	1999	1980

e Estimated.

CHEMUNG RIVER BASIN

01516350 TIOGA RIVER NEAR MANSFIELD, PA--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1976 - 2001	
ANNUAL TOTAL	66271		45726			
ANNUAL MEAN	181		125		213	
HIGHEST ANNUAL MEAN					388	1978
LOWEST ANNUAL MEAN					125	2001
HIGHEST DAILY MEAN	3550	Apr 4	1960	Apr 10	12200	Aug 18 1994
LOWEST DAILY MEAN	10	Sep 9-11	11	Aug 15	8.1	Sep 3 1999
ANNUAL SEVEN-DAY MINIMUM	11	Sep 5	14	Aug 3	8.7	Aug 31 1999
MAXIMUM PEAK FLOW			4300	Apr 9	a 38900	Jan 19 1996
MAXIMUM PEAK STAGE			8.09	Apr 9	b 18.87	Jan 19 1996
ANNUAL RUNOFF (CFSM)	1.18		.82		1.39	
ANNUAL RUNOFF (INCHES)	16.11		11.12		18.95	
10 PERCENT EXCEEDS	460		313		462	
50 PERCENT EXCEEDS	75		49		96	
90 PERCENT EXCEEDS	16		18		20	

a From rating curve extended above 16,000 ft³/s.
b From floodmark, at site then in use.

