

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

**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 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 ft<sup>3</sup>/s.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 3,000 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)
Nov. 26	2115	4,120	7.83	Feb. 28	0145	3,380	7.38
Feb. 25	----	Unknown	Ice jam	Apr. 4	0515	*7,400	*9.27

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000**  
**DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	321	47	278	103	e74	695	206	200	131	97	37	14
2	219	50	232	105	e72	589	191	199	122	84	33	14
3	173	112	211	127	e70	451	653	174	123	76	28	20
4	183	87	206	292	e67	375	3550	155	101	79	25	17
5	172	70	184	246	e70	326	1100	143	110	68	22	13
6	142	64	184	157	e65	278	715	131	221	59	21	12
7	122	59	165	141	e62	242	546	120	224	53	32	11
8	107	57	144	129	e58	230	908	111	146	49	28	11
9	102	55	131	126	e68	218	1270	103	114	47	23	10
10	108	55	126	175	e73	208	811	97	95	50	20	10
11	124	54	122	284	e78	241	664	97	86	45	20	10
12	99	52	110	200	e84	542	559	88	168	40	20	14
13	87	51	106	e170	e110	339	456	90	203	37	21	25
14	133	50	346	e150	e200	291	394	91	187	34	19	21
15	120	49	635	e130	e230	263	343	79	153	42	18	20
16	101	47	498	e120	e210	331	301	70	232	47	16	17
17	93	45	368	e120	e190	786	332	65	207	44	15	16
18	88	44	298	e100	e170	446	861	79	291	37	15	14
19	83	43	249	e110	e160	396	712	583	336	33	15	13
20	79	43	257	e120	e170	349	543	358	208	31	14	12
21	75	43	353	e110	e160	621	676	250	221	29	13	13
22	72	43	254	e100	e180	1010	876	231	285	31	13	11
23	74	42	207	e110	e250	610	799	264	179	28	17	11
24	73	42	e170	e120	e400	486	570	730	140	27	20	12
25	66	58	e150	e110	e900	427	459	585	171	26	19	12
26	61	1020	e160	e90	1040	413	387	380	462	25	15	17
27	58	1610	e150	e78	1230	332	344	288	232	24	13	17
28	54	679	e140	e70	2130	396	311	239	177	24	14	14
29	52	459	e140	e64	959	322	262	201	135	25	15	13
30	50	353	138	e62	---	268	224	173	120	31	17	12
31	49	---	118	e70	---	233	---	148	---	29	15	---
TOTAL	3340	5483	6830	4089	9530	12714	20023	6522	5580	1351	613	426
MEAN	108	183	220	132	329	410	667	210	186	43.6	19.8	14.2
MAX	321	1610	635	292	2130	1010	3550	730	462	97	37	25
MIN	49	42	106	62	58	208	191	65	86	24	13	10
CFSM	.70	1.19	1.44	.86	2.15	2.68	4.36	1.38	1.22	.28	.13	.09
IN.	.81	1.33	1.66	.99	2.32	3.09	4.87	1.59	1.36	.33	.15	.10

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2000, BY WATER YEAR (WY)**

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	137	212	228	234	260	421	507	246	159	78.5	76.8	56.0													
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	84.4	25.1	17.5	12.5	12.6													
(WY)	1983	1999	1999	1981	1987	1981	1988	1987	1991	1999	1999	1980													

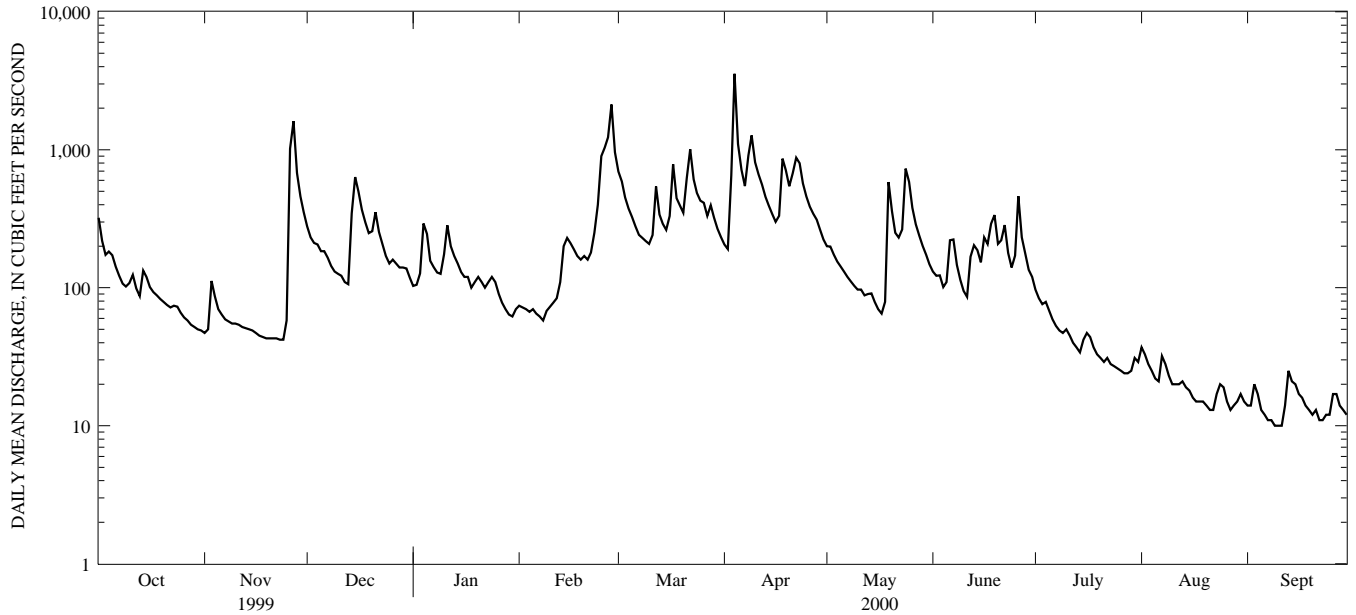
e Estimated.

CHEMUNG RIVER BASIN

01516350 TIOGA RIVER NEAR MANSFIELD, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1976 - 2000	
ANNUAL TOTAL	61771.3		76501		217	
ANNUAL MEAN	169		209		388	
HIGHEST ANNUAL MEAN					1978	
LOWEST ANNUAL MEAN					1985	
HIGHEST DAILY MEAN	3720	Jan 24	3550	Apr 4	12200	Aug 18 1994
LOWEST DAILY MEAN	8.1	Sep 3	10	Sep 9-11	8.1	Sep 3 1999
ANNUAL SEVEN-DAY MINIMUM	8.7	Aug 31	11	Sep 5	8.7	Aug 31 1999
INSTANTANEOUS PEAK FLOW			7400	Apr 4	<b>a</b> 38900	Jan 19 1996
INSTANTANEOUS PEAK STAGE			9.27	Apr 4	<b>b</b> 18.87	Jan 19 1996
ANNUAL RUNOFF (CFSM)	1.11		1.37		1.42	
ANNUAL RUNOFF (INCHES)	15.02		18.60		19.28	
10 PERCENT EXCEEDS	385		511		469	
50 PERCENT EXCEEDS	83		116		99	
90 PERCENT EXCEEDS	14		17		21	

**a** From rating curve extended above 16,000 ft<sup>3</sup>/s.  
**b** From floodmark, at site then in use.



1-YEAR HYDROGRAPH  
 OCTOBER 1, 1999 TO SEPTEMBER 30, 2000