

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 National Geodetic Vertical Datum of 1929. 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 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)
June 6	1900	*4,210	*8.04	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	146	61	414	e100	485	120	350	404	129	65	29	15
2	126	60	275	e90	397	114	297	540	111	60	27	15
3	108	59	228	e100	300	191	263	437	97	56	28	14
4	94	58	200	e90	262	172	230	337	94	52	25	13
5	85	56	179	e80	202	e120	207	293	241	48	30	13
6	86	54	164	e74	197	e140	193	259	2680	45	30	12
7	82	53	150	e78	179	134	177	249	1460	43	25	12
8	72	52	138	e85	168	129	166	224	697	42	23	11
9	68	50	142	e84	156	128	163	257	452	42	22	11
10	62	49	130	e75	269	146	201	297	328	44	20	11
11	58	48	121	e82	847	125	163	215	258	39	19	10
12	55	46	118	81	463	119	144	548	213	36	19	10
13	54	45	145	79	364	116	159	1440	194	35	19	10
14	51	44	200	74	267	114	379	1340	419	34	17	10
15	105	44	311	72	265	109	951	761	728	33	16	18
16	91	43	213	71	251	141	525	546	560	31	16	49
17	138	42	249	69	237	139	399	447	388	29	17	30
18	108	41	742	66	199	128	336	1060	290	28	17	21
19	88	40	469	e56	178	129	297	778	234	31	16	17
20	84	43	361	e70	177	152	271	564	193	49	15	16
21	76	44	295	75	206	186	249	461	164	33	15	15
22	74	42	247	67	186	177	228	382	142	28	15	16
23	74	41	222	67	163	154	208	319	127	37	21	66
24	85	40	230	141	144	155	181	274	114	55	28	41
25	94	128	191	189	139	155	181	238	104	36	26	27
26	85	279	161	139	140	700	192	209	98	31	20	23
27	77	165	e140	128	165	1080	161	183	96	30	17	113
28	73	140	e130	142	136	627	569	177	93	62	16	298
29	68	173	e120	177	---	519	828	180	79	68	16	99
30	66	229	e110	322	---	443	506	155	71	42	16	62
31	62	---	e100	351	---	362	---	140	---	34	15	---
TOTAL	2595	2269	6895	3374	7142	7224	9174	13714	10854	1298	635	1078
MEAN	83.71	75.63	222.4	108.8	255.1	233.0	305.8	442.4	361.8	41.87	20.48	35.93
MAX	146	279	742	351	847	1080	951	1440	2680	68	30	298
MIN	51	40	100	56	136	109	144	140	71	28	15	10
CFSM	0.55	0.49	1.45	0.71	1.67	1.52	2.00	2.89	2.36	0.27	0.13	0.23
IN.	0.63	0.55	1.68	0.82	1.74	1.76	2.23	3.33	2.64	0.32	0.15	0.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2002, BY WATER YEAR (WY)

MEAN	130.5	199.8	223.4	221.6	253.3	405.3	502.5	247.2	164.4	75.67	72.69	59.03
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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1976 - 2002	
ANNUAL TOTAL	52062		66252			
ANNUAL MEAN	143		182		212	
HIGHEST ANNUAL MEAN					388	1978
LOWEST ANNUAL MEAN					125	2001
HIGHEST DAILY MEAN	1960	Apr 10	2680	Jun 6	12200	Aug 18 1994
LOWEST DAILY MEAN	11	Aug 15	10	Sep 11-14	8.1	Sep 3 1999
ANNUAL SEVEN-DAY MINIMUM	14	Aug 3	10	Sep 8	8.7	Aug 31 1999
MAXIMUM PEAK FLOW			4210	Jun 6	a 38900	Jan 19 1996
MAXIMUM PEAK STAGE			8.04	Jun 6	b 18.87	Jan 19 1996
ANNUAL RUNOFF (CFSM)	0.93		1.19		1.39	
ANNUAL RUNOFF (INCHES)	12.66		16.11		18.84	
10 PERCENT EXCEEDS	342		401		461	
50 PERCENT EXCEEDS	62		118		97	
90 PERCENT EXCEEDS	24		20		20	

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

