



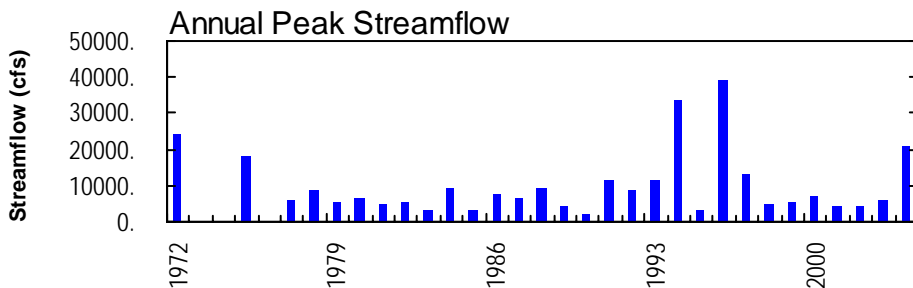
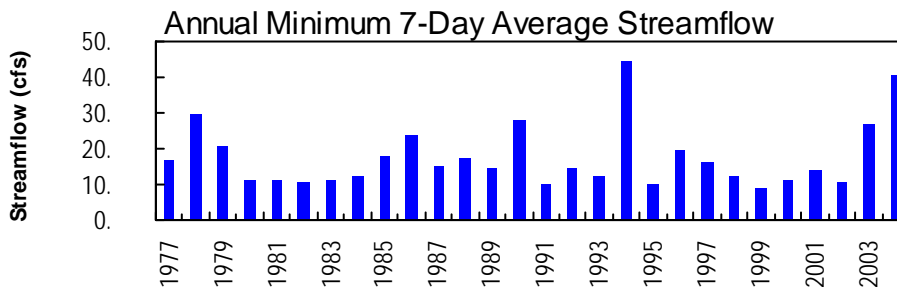
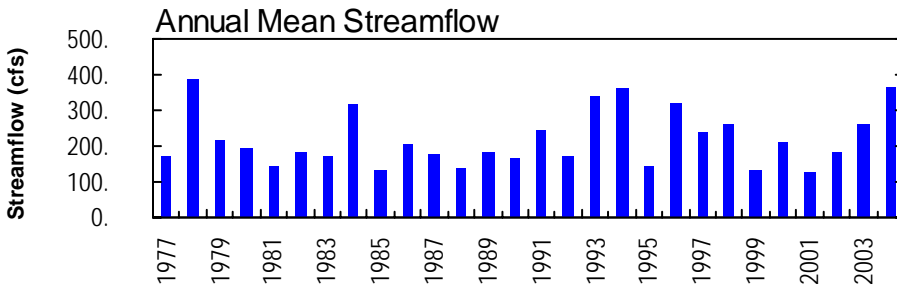
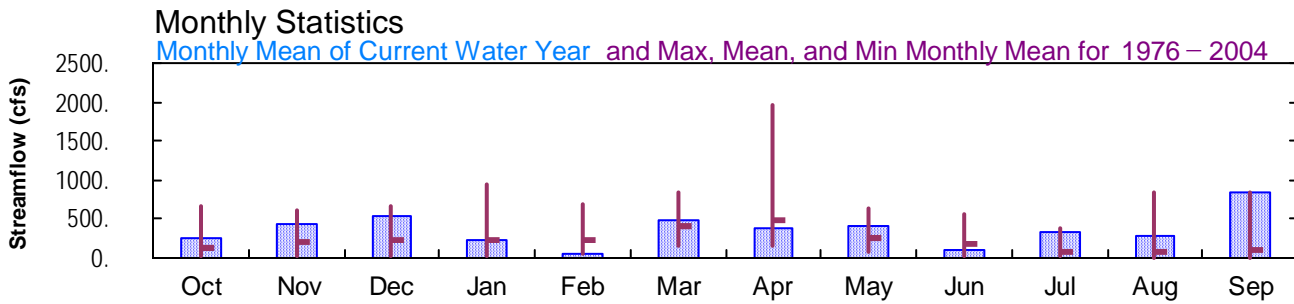
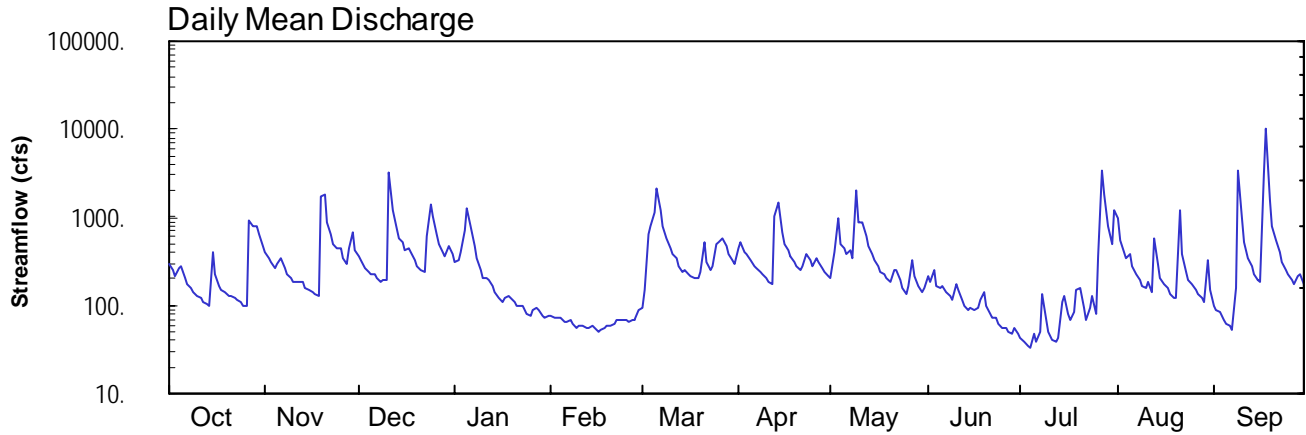
2004 Water Year CHEMUNG RIVER BASIN

01516350 Tioga River near Mansfield, PA

Latitude: 41° 47' 39"
Tioga County

Longitude: 077° 04' 50"
Datum: 1121.28 feet

Hydrologic Unit Code: 02050104
Drainage Area: 153. mi²



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.

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)
Nov. 19	2200	4,580	8.23	May 9	0530	4,120	7.92
Dec. 11	0900	7,140	9.24	July 27	1615	6,430	9.28
Dec. 24	1515	3,180	7.44	Sept. 9	0530	5,740	8.90
Mar. 2	----	Unknown	Ice jam	Sept. 18	0530	*20,900	*14.21
Apr. 13	2315	3,270	7.34				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	291	401	371	313	e74	e95	437	204	216	44	975	100
2	251	346	323	330	e71	e150	515	400	186	39	554	88
3	216	304	271	410	e71	659	413	990	249	35	398	83
4	260	267	240	697	e71	781	384	500	170	32	343	69
5	281	298	230	1270	e65	1150	328	442	156	47	391	63
6	206	347	228	774	e65	2090	286	380	167	39	273	58
7	174	265	207	e470	e68	1190	266	430	145	51	232	54
8	154	227	185	e350	e62	804	243	342	125	137	198	158
9	140	200	190	e250	e56	567	227	2050	114	69	170	3390
10	129	187	196	e200	e59	448	203	863	171	50	158	1030
11	119	182	3260	e200	e59	376	186	876	146	40	182	509
12	111	181	1220	e190	e56	343	178	599	116	38	143	350
13	103	180	745	e170	e56	284	1050	475	98	42	568	277
14	99	161	585	e140	e59	245	1460	383	91	112	300	222
15	408	150	512	e120	e56	246	688	332	92	127	209	196
16	227	143	421	e110	e50	225	502	285	88	79	175	181
17	166	138	437	e120	e52	218	419	245	94	69	154	3080
18	148	131	398	e130	e56	209	359	225	118	85	135	10100
19	140	1700	327	e120	e57	202	317	205	143	153	122	1550
20	131	1860	285	e110	e57	234	282	180	98	160	125	807
21	125	868	247	e100	e61	517	250	253	79	91	1170	538
22	122	627	234	e100	e68	316	279	257	74	70	389	398
23	118	e500	603	e100	e70	258	381	197	72	96	236	310
24	110	e450	1400	e82	e70	284	331	157	62	125	198	258
25	101	438	1020	e76	e67	488	280	135	56	81	173	224
26	97	338	644	e90	e66	530	347	163	55	355	150	197
27	930	296	496	e92	e70	568	305	325	49	3390	131	173
28	772	451	403	e87	e68	469	263	217	49	1790	118	217
29	781	690	358	e76	e88	384	237	168	56	774	108	233
30	641	429	482	e71	---	332	218	144	48	502	330	178
31	480	---	385	e74	---	300	---	154	---	1220	148	---
TOTAL	8031	12755	16903	7422	1848	14962	11634	12576	3383	9942	8956	25091
MEAN	259	425	545	239	63.7	483	388	406	113	321	289	836
MAX	930	1860	3260	1270	88	2090	1460	2050	249	3390	1170	10100
MIN	97	131	185	71	50	95	178	135	48	32	108	54
CFSM	1.69	2.78	3.56	1.56	0.42	3.15	2.53	2.65	0.74	2.10	1.89	5.47
IN.	1.95	3.10	4.11	1.80	0.45	3.64	2.83	3.06	0.82	2.42	2.18	6.10

e Estimated.

CHEMUNG RIVER BASIN

01516350 TIOGA RIVER NEAR MANSFIELD, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2004, BY WATER YEAR (WY)

MEAN	134	207	235	221	241	418	495	249	173	85.8	83.5	95.7
MAX	653	620	666	943	682	832	1968	630	550	375	839	836
(WY)	1991	1978	1997	1996	1996	1978	1993	1978	1989	1994	1994	2004
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

SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1976 - 2004

ANNUAL TOTAL	117713		133503		219		1978	
ANNUAL MEAN	323		365		388		2001	
HIGHEST ANNUAL MEAN								
LOWEST ANNUAL MEAN					125		2001	
HIGHEST DAILY MEAN	3260	Dec 11	10100	Sep 18	12200	Aug 18	1994	
LOWEST DAILY MEAN	e38	Feb 3	32	Jul 4	8.1	Sep 3	1999	
ANNUAL SEVEN-DAY MINIMUM	a43	Jan 28	41	Jun 30	8.7	Aug 31	1999	
MAXIMUM PEAK FLOW			b20900	Sep 18	b38900	Jan 19	1996	
MAXIMUM PEAK STAGE			14.21	Sep 18	c18.87	Jan 19	1996	
ANNUAL RUNOFF (CFSM)	2.11		2.38		1.43			
ANNUAL RUNOFF (INCHES)	28.62		32.46		19.48			
10 PERCENT EXCEEDS	689		711		479			
50 PERCENT EXCEEDS	187		208		102			
90 PERCENT EXCEEDS	66		65		21			

- a Computed using estimated daily discharges.
- b From rating curve extended above 16,000 ft³/s.
- c From floodmark, at site then in use.
- e Estimated.