

TOWANDA CREEK BASIN

01532000 TOWANDA CREEK NEAR MONROETON, PA

LOCATION.--Lat 41°42'25", long 76°29'06", Bradford County, Hydrologic Unit 02050106, on left bank on Township Route 406, 0.8 mi southwest of Monroeton, and 1.0 mi upstream from South Branch Towanda Creek.

DRAINAGE AREA.--215 mi².

PERIOD OF RECORD.--February 1914 to current year.

REVISED RECORDS.--WSP 756: Drainage area. WSP 1051: 1943-44(M). WSP 1302: 1922(M), 1924, 1925-26(M), 1928, 1929(M), 1930-31. WSP 1432: 1921(M), 1932(M), 1933, 1934-35(M), 1936, 1938(M), 1940. WDR PA-78-2: 1972(M). WDR PA-87-2: 1978-79.

GAGE.--Water-stage recorder. Datum of gage is 765.53 ft above sea level. Prior to Oct. 1, 1942, nonrecording gage at present site at datum 8.62 ft higher. Water-stage recorder Oct. 1, 1942, to Sept. 25, 1975, 0.6 mi downstream at datum 11.82 ft lower. Nonrecording gage Sept. 26, 1975, to Aug. 26, 1976, at bridge 0.6 mi downstream at datum 11.82 ft lower. Nonrecording gage Aug. 27, 1976, to Oct. 20, 1977, at present site and 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.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 4,300 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Feb. 28	0315	*7,280	*11.75	Apr. 18	1715	4,540	10.67
Apr. 4	0715	6,670	11.54				

**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	616	57	296	e110	e98	932	321	199	164	138	216	17
2	352	58	237	111	e93	778	280	192	146	111	121	23
3	240	135	212	134	e90	590	359	168	138	94	156	71
4	313	120	203	376	e87	474	3260	148	112	88	101	34
5	315	96	187	475	e84	398	1310	138	116	75	70	25
6	230	87	178	242	e81	323	855	126	264	63	57	21
7	185	82	165	205	e77	273	638	116	320	56	62	19
8	154	77	141	183	e80	251	996	106	184	49	58	17
9	139	73	127	172	e83	238	2190	98	134	45	48	16
10	157	72	121	376	e80	234	1220	148	110	e50	52	16
11	195	72	119	728	79	318	948	278	95	e40	45	15
12	148	67	107	443	e87	862	787	158	111	e35	47	15
13	123	64	103	355	e110	552	627	139	121	32	43	26
14	179	62	434	264	e140	450	519	216	129	30	37	24
15	172	60	1280	e240	e350	381	440	149	114	51	34	25
16	146	57	952	e200	e420	388	367	120	114	64	31	23
17	130	54	674	e140	371	1550	596	105	100	62	28	20
18	120	52	512	e130	285	804	2890	136	115	41	26	19
19	108	51	384	e120	235	672	1820	1240	195	34	25	18
20	99	50	350	e140	e170	562	1050	855	140	32	23	16
21	94	51	620	e130	e160	945	1160	583	115	32	21	16
22	89	49	415	e120	e160	1780	1420	688	159	40	20	15
23	96	48	303	e120	e500	930	942	806	122	32	22	14
24	92	47	262	e130	856	703	728	2270	96	28	27	14
25	83	53	211	e120	1670	570	572	1520	93	26	24	14
26	77	593	215	e110	1580	519	464	865	736	24	21	16
27	72	1920	189	e100	1540	418	391	588	627	24	19	19
28	67	859	157	e93	3760	801	344	428	408	162	18	18
29	64	577	e150	e88	1360	601	280	317	255	96	20	16
30	61	415	134	e83	---	475	233	247	181	181	20	15
31	58	---	123	e90	---	392	---	197	---	131	18	---
TOTAL	4974	6058	9561	6328	14686	19164	28007	13344	5714	1966	1510	617
MEAN	160	202	308	204	506	618	934	430	190	63.4	48.7	20.6
MAX	616	1920	1280	728	3760	1780	3260	2270	736	181	216	71
MIN	58	47	103	83	77	234	233	98	93	24	18	14
CFSM	.75	.94	1.43	.95	2.36	2.88	4.34	2.00	.89	.29	.23	.10
IN.	.86	1.05	1.65	1.09	2.54	3.32	4.85	2.31	.99	.34	.26	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2000, BY WATER YEAR (WY)

MEAN	149	277	310	291	347	656	625	371	184	95.1	81.4	83.1
MAX	1092	1326	1117	1542	1169	2287	1838	1262	1922	1376	986	950
(WY)	1991	1927	1997	1996	1984	1936	1993	1946	1972	1915	1915	1975
MIN	6.46	7.84	16.8	10.1	40.4	135	110	54.5	16.0	7.72	3.71	1.76
(WY)	1965	1931	1932	1931	1931	1965	1946	1926	1991	1955	1966	1964

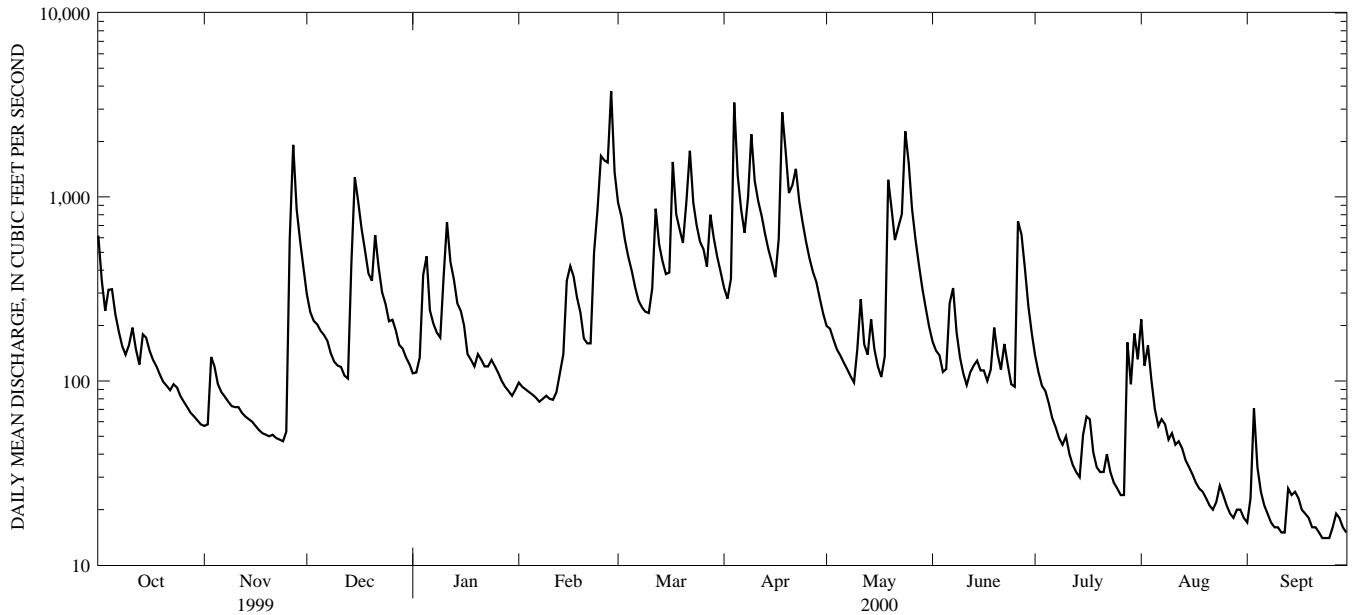
e Estimated.

TOWANDA CREEK BASIN

01532000 TOWANDA CREEK NEAR MONROETON, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1914 - 2000	
ANNUAL TOTAL	79940.0		111929			
ANNUAL MEAN	219		306		288	
HIGHEST ANNUAL MEAN					502	1978
LOWEST ANNUAL MEAN					111	1965
HIGHEST DAILY MEAN	7940	Jan 24	3760	Feb 28	28700	Jun 22 1972
LOWEST DAILY MEAN	1.7	Aug 19	14	Sep 23-25	.70	Sep 21 1932
ANNUAL SEVEN-DAY MINIMUM	2.3	Aug 8	15	Sep 20	.87	Sep 16 1932
INSTANTANEOUS PEAK FLOW			7280	Feb 28	74000	Jun 22 1972
INSTANTANEOUS PEAK STAGE			11.75	Feb 28	a20.86	Jan 19 1996
INSTANTANEOUS LOW FLOW					.70	Sep 15 1932b
ANNUAL RUNOFF (CFSM)	1.02		1.42		1.34	
ANNUAL RUNOFF (INCHES)	13.83		19.37		18.21	
10 PERCENT EXCEEDS	469		802		660	
50 PERCENT EXCEEDS	100		134		116	
90 PERCENT EXCEEDS	7.5		24		14	

a From floodmark.
b Also Sept. 17, 21, 22, 1932.



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