

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 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)
Jan. 24	0815	*13,900	*13.58	Mar. 4	0445	7,140	11.70

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	16	26	e22	258	153	439	169	33	46	5.9	3.7
2	5.0	15	25	e20	374	136	597	151	30	93	6.4	3.1
3	4.2	15	23	e30	427	129	480	135	30	72	4.9	2.7
4	4.5	14	23	e62	378	2770	471	129	29	48	3.7	2.6
5	4.9	14	23	e56	349	977	437	117	26	37	3.3	2.2
6	4.6	14	23	e52	287	682	354	108	23	30	3.1	2.2
7	4.5	14	22	e48	258	509	315	101	25	24	2.7	21
8	27	14	22	e43	238	396	270	138	27	21	2.4	57
9	73	14	22	e45	212	349	448	238	22	18	2.4	28
10	125	15	21	e47	220	338	671	177	20	26	2.4	22
11	84	30	20	e50	215	285	465	138	19	23	2.4	31
12	48	45	20	e52	283	259	493	120	18	18	2.2	21
13	33	35	19	e58	338	222	410	107	16	15	2.0	16
14	31	28	19	e60	e230	204	341	97	17	13	2.6	17
15	28	25	16	e84	e210	200	295	89	19	12	3.1	24
16	23	23	18	e90	e220	207	306	82	17	11	3.2	568
17	19	22	19	e86	263	414	403	75	24	9.6	2.6	1870
18	19	21	19	e100	272	754	346	70	44	9.1	2.0	539
19	19	20	18	e450	231	569	299	76	34	8.3	1.7	259
20	17	21	17	e300	198	441	305	66	25	8.8	3.3	161
21	17	29	18	e220	e170	468	269	58	21	7.7	12	191
22	17	29	54	e250	e130	565	238	53	18	7.6	10	208
23	16	27	e74	e1500	e130	499	327	53	16	8.3	7.5	155
24	15	25	e60	7940	e120	536	566	58	14	7.5	5.6	114
25	15	24	e45	1840	e120	548	379	76	12	8.2	4.6	92
26	14	25	e35	837	e110	435	323	66	12	8.0	6.6	79
27	14	28	e34	546	e100	402	280	57	10	7.8	11	68
28	15	29	e32	497	112	411	245	50	59	6.5	11	64
29	19	26	e30	466	---	428	216	44	82	5.7	9.1	61
30	18	26	e28	348	---	444	190	39	66	4.7	6.1	850
31	17	---	e23	280	---	424	---	36	---	4.3	4.6	---
TOTAL	757.3	683	848	16479	6453	15154	11178	2973	808	619.1	150.4	5532.5
MEAN	24.4	22.8	27.4	532	230	489	373	95.9	26.9	20.0	4.85	184
MAX	125	45	74	7940	427	2770	671	238	82	93	12	1870
MIN	4.2	14	16	20	100	129	190	36	10	4.3	1.7	2.2
CFSM	.11	.11	.13	2.47	1.07	2.27	1.73	.45	.13	.09	.02	.86
IN.	.13	.12	.15	2.85	1.12	2.62	1.93	.51	.14	.11	.03	.96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 1999, BY WATER YEAR (WY)

MEAN	149	278	310	292	345	657	622	370	184	95.4	81.7	83.9
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

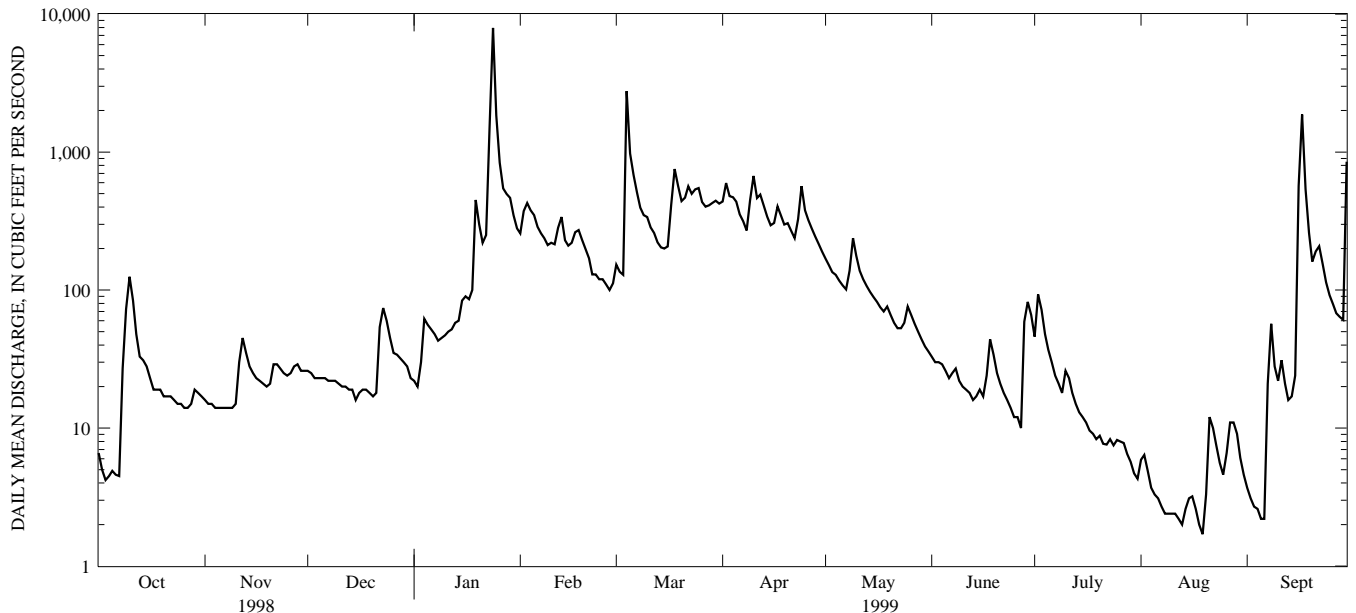
e Estimated.

TOWANDA CREEK BASIN

01532000 TOWANDA CREEK NEAR MONROETON, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1914 - 1999	
ANNUAL TOTAL	120528.0		61635.3		288	
ANNUAL MEAN	330		169		502	
HIGHEST ANNUAL MEAN					1978	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	5020	May 11	7940	Jan 24	28700	Jun 22 1972
LOWEST DAILY MEAN	1.9	Sep 20	1.7	Aug 19	.70	Sep 21 1932
ANNUAL SEVEN-DAY MINIMUM	2.5	Sep 15	2.3	Aug 8	.87	Sep 16 1932
INSTANTANEOUS PEAK FLOW			13900	Jan 24	74000	Jun 22 1972
INSTANTANEOUS PEAK STAGE			13.58	Jan 24	a20.86	Jan 19 1996
INSTANTANEOUS LOW FLOW					.70	Sep 15 1932b
ANNUAL RUNOFF (CFSM)	1.54		.79		1.34	
ANNUAL RUNOFF (INCHES)	20.85		10.66		18.19	
10 PERCENT EXCEEDS	762		431		658	
50 PERCENT EXCEEDS	74		35		115	
90 PERCENT EXCEEDS	7.0		5.8		14	

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



1-YEAR HYDROGRAPH
 OCTOBER 1, 1998 TO SEPTEMBER 30, 1999