

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)
Dec. 17	0730	6,670	11.54	Apr. 9	2215	6,960	11.64
Mar. 30	1200	5,420	11.06	Sept. 25	0145	*9,600	*12.47

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	31	76	e120	150	115	992	155	49	174	e20	73
2	14	31	68	e110	e110	112	765	142	52	276	e16	62
3	14	30	e62	e110	e100	107	612	130	70	135	e15	45
4	14	30	e56	e100	e90	104	588	120	76	115	e14	67
5	18	30	e61	e90	85	106	708	111	63	116	e14	90
6	52	29	e56	85	76	113	1110	101	56	100	e13	55
7	47	28	e54	79	e74	110	1740	91	49	83	e12	41
8	35	27	e52	76	e71	102	1690	84	44	80	e11	34
9	29	30	e50	e73	115	105	2250	81	39	73	e10	30
10	27	99	e48	e72	376	99	2850	75	35	62	e10	29
11	25	320	e50	e70	e200	97	1340	70	35	63	e13	36
12	24	161	e60	e67	e140	98	969	69	35	55	e11	33
13	22	122	e66	e65	e160	444	770	77	41	49	e12	28
14	22	107	e66	e63	e180	712	588	68	34	44	e10	150
15	21	96	67	59	415	513	478	64	30	40	e9.3	132
16	20	89	72	60	324	413	622	60	210	37	e9.0	77
17	22	77	3920	62	313	564	611	55	534	35	180	57
18	177	70	1380	60	199	738	507	57	159	35	76	47
19	152	65	728	59	182	562	401	56	95	33	41	42
20	85	61	500	59	177	559	339	51	78	30	73	42
21	66	57	355	e58	177	648	471	48	91	27	58	75
22	56	53	307	e50	e110	1190	718	58	141	24	38	63
23	50	e48	185	e40	e120	1240	490	72	2520	22	31	50
24	46	e44	e180	e50	e120	1010	405	62	1510	e20	31	378
25	44	e40	e160	e58	127	676	339	52	669	e17	27	4860
26	41	62	e160	e56	151	497	286	67	356	e24	23	1360
27	39	119	e150	e50	137	362	250	90	224	e21	27	692
28	40	104	e140	e45	126	311	219	82	162	e20	34	440
29	36	88	e130	e42	---	297	189	72	126	e18	52	309
30	34	83	e120	57	---	3160	170	63	104	e16	44	224
31	32	---	e110	156	---	1580	---	54	---	e18	37	---
TOTAL	1318	2231	9489	2201	4605	16744	23467	2437	7687	1862	971.3	9621
MEAN	42.5	74.4	306	71.0	164	540	782	78.6	256	60.1	31.3	321
MAX	177	320	3920	156	415	3160	2850	155	2520	276	180	4860
MIN	14	27	48	40	71	97	170	48	30	16	9.0	28
CFM	.20	.35	1.42	.33	.76	2.51	3.64	.37	1.19	.28	.15	1.49
IN.	.23	.39	1.64	.38	.80	2.90	4.06	.42	1.33	.32	.17	1.66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2001, BY WATER YEAR (WY)

	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	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	2001
MEAN	148	275	310	288	345	655	627	367	185	94.7	80.8	85.8																																																																												
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.

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1914 - 2001	
ANNUAL TOTAL	104374		82633.3			
ANNUAL MEAN	285		226		287	
HIGHEST ANNUAL MEAN					502	1978
LOWEST ANNUAL MEAN					111	1965
HIGHEST DAILY MEAN	3920	Dec 17	4860	Sep 25	28700	Jun 22 1972
LOWEST DAILY MEAN	14	Sep 23-25 ^a	^e 9.0	Aug 16	.70	Sep 21 1932
ANNUAL SEVEN-DAY MINIMUM	15	Sep 20	^b 11	Aug 10	.87	Sep 16 1932
MAXIMUM PEAK FLOW			9600	Sep 25	74000	Jun 22 1972
MAXIMUM PEAK STAGE			12.47	Sep 25	^c 20.86	Jan 19 1996
INSTANTANEOUS LOW FLOW					.70	Sep 15 1932 ^d
ANNUAL RUNOFF (CFSM)	1.33		1.05		1.34	
ANNUAL RUNOFF (INCHES)	18.06		14.30		18.16	
10 PERCENT EXCEEDS	781		563		658	
50 PERCENT EXCEEDS	110		73		115	
90 PERCENT EXCEEDS	21		24		14	

- ^a Also Oct. 1-4.
- ^b Computed using estimated daily discharges.
- ^c From floodmark.
- ^d Also Sept. 17, 21, 22, 1932.
- ^e Estimated.

