Historical Floods: Susquehanna River at Towanda, PA

Latitude: 41.765 Period of Record: 1865-Present Longitude: -76.441 Flood Stage: 16 Last Flood: 8/15/2018 Number of Floods: 93

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Date o	f Flood	Crest (ft)	Streamflow (cfs)	Category	Code	Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code
3/17/	/1865	25	188,000	Moderate	C1	1/10/1935	16.5	99,500	Minor	C1
5/4/	1893	16	109,000	Minor	C1	7/9/1935	21.1	144,000	Moderate	C1
3/2/	1902	24.5	184,000	Moderate	C1	3/13/1936	22.34	157,000	Moderate	C1
3/27/	/1904	17.8	133,000	Minor	C1	3/19/1936	25.03	188,000	Moderate	C1
3/2/	1910	18.4	142,000	Moderate	C1	2/21/1939	19.13	128,000	Moderate	none
3/30/	/1912	16	109,000	Minor	C1	4/1/1940	23.84	176,000	Moderate	none
3/28/	/1913	20.7	146,000	Moderate	C1	4/5/1940	19.75	134,000	Moderate	none
3/29/	/1914	20.4	173,000	Moderate	C1	4/9/1940	18.13	118,000	Moderate	none
2/25/	/1915	17.5	129,000	Minor	C1	4/6/1941	18.47	122,000	Moderate	none
7/9/	1915	17.5	129,000	Minor	C1	3/10/1942	17.21	109,000	Minor	none
3/31/	/1916	18.3	140,000	Moderate	C1	12/31/1942	23.3	171,000	Moderate	none
3/15/	/1918	17.2	124,000	Minor	C1	3/4/1945	16.15	99,400	Minor	none
3/13/	/1920	17.2	124,000	Minor	C1	5/29/1946	25.08	191,000	Moderate	none
4/7/	1924	17.8	133,000	Minor	C1	4/6/1947	19.6	132,000	Moderate	none
10/1/	/1924	16.8	119,000	Minor	C1	3/17/1948	16.71	104,000	Minor	none
2/12/	/1925	18.7	146,000	Moderate	C1	3/23/1948	23.04	168,000	Moderate	none
11/17	/1926	16.6	116,000	Minor	C1	3/29/1950	21.18	148,000	Moderate	none
10/20	/1927	17.3	126,000	Minor	C1	4/5/1950	16.72	102,000	Minor	none
3/17/	/1929	16.8	119,000	Minor	C1	11/27/1950	17.96	115,000	Minor	none
4/22/	/1929	19.9	165,000	Moderate	C1	3/31/1951	18.91	124,000	Moderate	none

Drainage Area: 7797 square miles Gage Datum: 694.38 ft MSL

Data represent all historical events. Main Stem Susquehanna Basin County of Gage: Bradford County of Forecast Point: Bradford

Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code	Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code
3/12/1952	17.59	111,000	Minor	none	1/3/1979	16.22	97,100	Minor	none
10/16/1955	18.96	124,000	Moderate	none	3/6/1979	24.04	179,000	Moderate	none
3/8/1956	22.28	160,000	Moderate	none	12/14/1983	22.4	154,000	Moderate	F2
4/5/1956	18.27	118,000	Moderate	none	2/15/1984	21.69	146,000	Moderate	F2
4/8/1958	20.86	144,000	Moderate	none	4/6/1984	21.84	148,000	Moderate	F2
1/23/1959	19.52	130,000	Moderate	none	3/16/1986	20.23	131,000	Moderate	F2
4/1/1960	22.76	165,000	Moderate	none	5/12/1989	16.03	91,400	Minor	F2
4/5/1960	17.96	115,000	Minor	none	10/24/1990	18.29	117,000	Moderate	F2
2/27/1961	21.08	147,000	Moderate	none	4/2/1993	21.99	152,000	Moderate	F2
4/26/1961	19.92	134,000	Moderate	none	4/11/1993	21.31	145,000	Moderate	F2
4/1/1962	17.13	106,000	Minor	none	4/17/1993	16.43	100,000	Minor	F2
3/28/1963	17.77	113,000	Minor	none	3/25/1994	17.6	111,000	Minor	F2
3/6/1964	23.63	174,000	Moderate	none	1/20/1996	24.84	180,000	Moderate	F2
3/11/1964	20.77	143,000	Moderate	none	5/12/1996	16.58	101,000	Minor	F2
4/3/1970	16.03	95,400	Minor	none	11/9/1996	18.11	116,000	Moderate	F2
3/3/1972	17.78	112,000	Minor	none	12/2/1996	17.63	111,000	Minor	F2
6/24/1972	33.43	320,000	Major	none	1/9/1998	17.88	113,000	Minor	F2
2/25/1975	20.2	137,000	Moderate	none	2/28/2000	17.62	111,000	Minor	F2
9/27/1975	27.47	221,000	Major	none	9/18/2004	22.26	154,000	Moderate	F2
2/18/1976	16.61	101,000	Minor	none	1/15/2005	17.37	110,000	Minor	F2
3/14/1977	16.04	95,500	Minor	none	4/4/2005	23.05	162,000	Moderate	F2
9/26/1977	16.42	98,900	Minor	none	11/30/2005	16.03	98,000	Minor	F2
1/27/1978	16.29	97,700	Minor	none	6/29/2006	20.83	141,000	Moderate	F2

Drainage Area: 7797 square miles Gage Datum: 694.38 ft MSL

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Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code	Date of Flood	Crest (ft)	Streamflow (cfs)	Category	/
3/16/2007	17.46	110,000	Minor	F2					
2/7/2008	16.58	103,000	Minor	F2					
1/26/2010	17.37	110,000	Minor	F2					
3/12/2011	18.96	124,000	Moderate	F2					
4/28/2011	19.41	128,000	Moderate	F2					
9/8/2011	30.52	250,000	Major	F2					
8/15/2018	16.25	99,900	Minor	none					

Code Description

- C1 Crest information looks unreliable and incomplete and not used in frequency calculations. Some of the floods are based on current flood stage and nearby gage information.
- C2 Crest information looks reliable despite potential problems. This data was used in frequency calculations.
- C3 Crest height estimated by the USGS.
- C4 Crest height is from the National Weather Service.
- C5 Crest height affected by backwater.
- Cf Crest occurred at a previous flood stage that is lower than the current flood stage. The crests below the new flood stage are not used in flood frequency calculations.
- C7 Crest from USGS yearly peak and/or date is different than the crest we provide. In many cases MARFC uses crest based on backwater or ice effects.
- C8 Crest month or day of occurrence has been estimated by The Middle Atlantic River Forecast Center usually based on nearby gage information.
- C9 Crest date (day) in the month is unknown.
- F1 Flow is an estimate.
- F2 Flow affected by regulation or diversion and in some cases to an unknown degree.
- F3 Flow effected by snow-melt, ice jam or debris jam break up.
- F4 Flow affected by dam failure.
- F5 Flow All or part of the record affected by urbanization, mining, agricultural changes, channelization or other factors.
- G1 Gage height at a different site and/or datum.
- Gage is not an official USGS gage with crests provided by the NWS. Crest information looks unreliable and incomplete and not used in flood frequency calculations.
- G3 Gage datum changed during this year.

none No code; Good Data

Drainage Area: 7797 square miles

Gage Datum: 694.38 ft MSL

Data represent all historical events. Main Stem Susquehanna Basin County of Gage: Bradford

County of Forecast Point: Bradford