

Historical Floods: North Branch Susquehanna River near Waverly, NY

Latitude: 41.985
Flood Stage: 13

Period of Record: 1936-Present
Last Flood: 9/18/2018

Longitude: -76.501
Number of Floods: 131

Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code	Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code
3/18/1936	21.4	128,000	Major	C1 C3 G1	3/29/1950	15.8	75,400	Minor	none
10/24/1937	11.36	53,400	Minor	C6	4/5/1950	14.55	65,800	Minor	none
9/23/1938	11.55	54,900	Minor	C6	12/5/1950	13.61	59,300	Minor	none
2/21/1939	14.25	72,800	Minor	none	3/31/1951	12.82	53,900	Minor	C6
4/1/1940	19	106,000	Moderate	none	3/12/1952	13.11	55,800	Minor	none
4/9/1940	16.4	82,600	Moderate	none	12/12/1952	11.63	46,800	Minor	C6
4/6/1941	14.75	68,500	Minor	none	2/18/1954	11.15	43,900	Minor	C6
3/10/1942	12.7	53,500	Minor	C6	3/2/1955	11.93	50,000	Minor	C6
12/31/1942	19.7	112,000	Moderate	none	10/16/1955	15.47	72,200	Minor	none
3/18/1943	14.92	69,900	Minor	none	3/8/1956	16.84	83,700	Moderate	none
3/18/1944	13.43	58,600	Minor	none	4/8/1956	15.72	74,800	Minor	none
3/18/1945	13.52	59,200	Minor	none	4/7/1957	11.85	48,100	Minor	C6
3/22/1945	13.69	60,400	Minor	none	4/8/1958	16.81	83,500	Moderate	none
3/9/1946	14.38	67,000	Minor	none	1/23/1959	14.65	66,600	Minor	none
5/28/1946	16.63	84,700	Moderate	none	11/29/1959	12.81	53,900	Minor	C6
3/26/1947	12.8	57,100	Minor	C6	2/12/1960	12.84	54,000	Minor	C6
4/6/1947	15.65	74,200	Minor	none	4/1/1960	17.56	89,500	Moderate	none
3/17/1948	14.13	62,900	Minor	none	4/5/1960	16.26	79,100	Moderate	none
3/22/1948	19.84	109,000	Moderate	none	2/26/1961	17.43	88,400	Moderate	none
12/31/1948	12.38	51,300	Minor	C6	4/25/1961	15.52	73,200	Minor	none

Drainage Area: 4773 square miles
Gage Datum: 743.96 ft MSL

Data represent all historical events.
North Branch Susquehanna Basin

County of Gage: Bradford
County of Forecast Point: Tioga

Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code	Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code
4/1/1962	15.06	69,500	Minor	none	1/27/1978	13.49	58,400	Minor	none
3/27/1963	15.52	73,200	Minor	none	3/28/1978	12.58	52,500	Minor	C6
3/6/1964	18.18	94,400	Moderate	none	1/3/1979	14.1	62,700	Minor	none
3/11/1964	17.92	92,400	Moderate	none	1/26/1979	12.62	52,900	Minor	C6
2/14/1966	11.84	48,000	Minor	C6	3/6/1979	19.66	107,000	Moderate	none
3/24/1968	13.3	57,100	Minor	none	3/22/1980	13.24	56,900	Minor	none
11/19/1968	11.87	48,200	Minor	C6	2/21/1981	13.6	59,200	Minor	none
4/3/1970	13.43	58,000	Minor	none	10/29/1981	12.4	51,500	Minor	C6
3/16/1971	11.65	46,900	Minor	C6	4/16/1983	14.72	67,300	Minor	none
3/3/1972	12.96	54,800	Minor	C6	4/25/1983	13.83	60,800	Minor	none
6/23/1972	21.24	121,000	Major	F3	5/2/1983	12.97	55,200	Minor	C6
11/9/1972	13.64	59,500	Minor	none	12/14/1983	19.94	110,000	Moderate	none
12/28/1973	12.13	49,800	Minor	C6	2/16/1984	18.03	93,100	Moderate	none
2/25/1975	16.25	79,000	Moderate	none	4/6/1984	18.14	94,000	Moderate	none
9/27/1975	20.16	111,000	Major	none	3/15/1986	18.12	93,800	Moderate	none
10/20/1975	12.64	52,800	Minor	C6	11/27/1986	14.32	64,300	Minor	none
2/19/1976	13.73	60,100	Minor	none	5/20/1988	11.4	47,100	Minor	C6
2/23/1976	12.76	53,600	Minor	C6	5/12/1989	13.02	52,000	Minor	none
10/10/1976	14.61	66,300	Minor	none	2/17/1990	11.13	40,800	Minor	C6
3/14/1977	15.16	70,300	Minor	none	10/24/1990	16.2	72,200	Moderate	none
9/25/1977	14.44	65,100	Minor	none	4/2/1993	18.74	89,700	Moderate	none
10/18/1977	15.16	70,300	Minor	none	4/11/1993	19.28	93,600	Moderate	none
1/9/1978	13.06	55,400	Minor	none	3/25/1994	13.53	55,000	Minor	none

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North Branch Susquehanna Basin

County of Gage: Bradford
County of Forecast Point: Tioga

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4/7/1994	13.21	53,000	Minor	none	3/27/2007	12.29	50,300	Minor	C6
1/20/1996	20.35	102,000	Major	F3	4/20/2007	11.37	44,600	Minor	C6
12/2/1996	16.54	75,300	Moderate	none	2/7/2008	13.58	58,700	Minor	none
1/9/1998	15.35	67,500	Minor	none	3/6/2008	12.62	52,400	Minor	C6
1/25/1999	14.22	60,500	Minor	none	3/9/2008	14.35	63,900	Minor	none
2/28/2000	16.65	76,000	Moderate	none	3/20/2008	11.81	47,300	Minor	C6
4/5/2000	13.89	58,400	Minor	none	3/10/2009	12.78	53,400	Minor	C6
5/25/2000	11.2	42,800	Minor	C6	1/26/2010	15.09	69,100	Minor	none
4/11/2001	12.97	55,300	Minor	C6	10/1/2010	11.26	43,900	Minor	C6
3/27/2002	11.44	45,900	Minor	C6	3/7/2011	12.59	52,200	Minor	C6
3/23/2003	14.16	61,700	Minor	none	3/11/2011	16.17	76,800	Moderate	none
10/30/2003	11.25	43,100	Minor	C6	3/19/2011	11.68	46,500	Minor	C6
12/12/2003	11.38	43,800	Minor	C6	4/6/2011	11.5	45,400	Minor	C6
3/7/2004	12.4	49,600	Minor	C6	4/28/2011	16.7	80,800	Moderate	none
9/18/2004	18.63	89,400	Moderate	none	5/4/2011	11.09	42,900	Minor	C6
1/15/2005	14.52	63,600	Minor	none	8/29/2011	11.91	47,900	Minor	C6
3/30/2005	15.08	66,600	Minor	none	9/8/2011	26.67	167,000	Major	none
4/3/2005	20.88	105,000	Major	none	9/29/2011	12.27	50,200	Minor	C6
11/30/2005	13.11	56,100	Minor	none	4/10/2015	13.54	58,400	Minor	none
1/19/2006	13.12	56,100	Minor	none	4/7/2017	14.96	68,100	Minor	none
6/29/2006	22.52	128,000	Major	none	8/15/2018	15.37	71,000	Minor	none
11/17/2006	15.59	72,600	Minor	none	9/18/2018	13.8	60,100	Minor	none
3/16/2007	14.2	62,900	Minor	none					

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Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code	Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code
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.								
C6	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.								
G2	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								