

Historical Floods: Tioughnioga River at Cortland, NY

Latitude: 42.603

Period of Record: 1939-Present

Longitude: -76.16

Flood Stage: 8

Last Flood: 11/1/2019

Number of Floods: 121

Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code	Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code
2/21/1939	10.45	4,290	Moderate	C1 G1	3/29/1950	11.79	6,320	Moderate	C1 G1
4/1/1940	10.97	5,210	Moderate	C1 G1	4/5/1950	13.82	10,000	Major	C1 G1
4/5/1940	11.58	6,120	Moderate	C1 G1	12/4/1950	-9999	4,400	Missing	C1 G1
4/9/1940	13.33	9,660	Major	C1 G1 G3	3/31/1951	11.97	6,600	Moderate	C1 G1
4/6/1941	12.49	7,880	Moderate	C1 G1	3/12/1952	9.33	3,320	Minor	C1 G1
3/9/1942	10.88	5,330	Moderate	C1 G1	2/22/1953	9.4	3,390	Minor	C1 G1
3/17/1942	11.32	5,950	Moderate	C1 G1	2/18/1954	9.43	3,420	Minor	C1 G1
12/31/1942	13.56	9,920	Major	C1 G1	3/2/1955	10.93	4,940	Moderate	C1 G1
3/17/1943	12.73	8,410	Major	C1 G1	3/12/1955	12.77	7,670	Major	C1 G1
3/17/1944	11.22	5,960	Moderate	C1 G1	3/8/1956	11.16	5,420	Moderate	C1 G1
3/17/1945	12.28	7,100	Moderate	C1 G1	4/5/1956	13.54	10,000	Major	C1 G1
3/22/1945	9.01	6,660	Minor	C1 G1	1/23/1957	11.03	5,240	Moderate	C1 G1
3/8/1946	10.62	4,760	Moderate	C1 G1	4/7/1958	11.66	6,170	Moderate	C1 G1
3/25/1947	10.97	5,200	Moderate	C1 G1	1/22/1959	11.71	6,250	Moderate	C1 G1
4/7/1947	12.16	6,900	Moderate	C1 G1	4/3/1959	12.19	7,050	Moderate	C1 G1
6/3/1947	11.11	5,380	Moderate	C1 G1	2/11/1960	11.37	5,720	Moderate	C1 G1
3/17/1948	10.67	4,820	Moderate	C1 G1	3/31/1960	13.52	9,980	Major	C1 F2
3/20/1948	12.73	7,910	Major	C1 G1	2/26/1961	13	8,770	Major	C1 G1
3/22/1948	12.4	7,300	Moderate	C1 G1	4/1/1962	9.66	3,789	Minor	C1 G1
1/6/1949	9.08	3,070	Minor	C1 G1	3/27/1963	10.34	5,640	Moderate	C1 G1

Drainage Area: 292 square miles

Gage Datum: 1084.92 ft MSL

Data represent all historical events.
North Branch Susquehanna Basin

County of Gage: Cortland
County of Forecast Point: Cortland

Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code	Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code
3/5/1964	12.49	13,000	Moderate	G3	3/6/1979	12.42	12,800	Moderate	none
3/24/1968	8.62	4,900	Minor	none	3/22/1980	10.45	7,730	Moderate	none
4/6/1969	8.42	4,660	Minor	none	2/21/1981	9.45	5,920	Minor	none
4/3/1970	8.61	4,940	Minor	none	10/28/1981	12.5	11,200	Major	none
4/10/1970	8.95	5,340	Minor	none	4/25/1983	8.22	4,170	Minor	none
4/14/1971	9.33	5,820	Minor	none	12/14/1983	10.49	7,810	Moderate	none
4/14/1972	8.19	4,480	Minor	none	2/15/1984	11.05	8,530	Moderate	none
4/18/1972	8.26	4,560	Minor	none	4/6/1984	9.4	5,830	Minor	none
6/23/1972	10.47	7,730	Moderate	none	3/15/1986	11.01	8,900	Moderate	none
12/7/1972	8.69	5,030	Minor	none	3/26/1988	9.28	5,640	Minor	none
4/5/1974	11.11	9,100	Moderate	none	2/17/1990	8.3	4,270	Minor	none
2/25/1975	9.94	6,750	Minor	none	4/1/1993	9.86	6,400	Minor	none
9/26/1975	8.88	5,260	Minor	none	4/11/1993	12.25	10,400	Moderate	none
2/19/1976	8.58	4,910	Minor	none	4/17/1993	8.9	5,050	Minor	none
4/16/1976	9.3	5,660	Minor	none	4/14/1994	9.61	5,910	Minor	none
10/10/1976	9.16	5,440	Minor	none	4/17/1994	10	6,490	Moderate	none
3/14/1977	12.12	11,800	Moderate	none	1/20/1996	13.02	11,800	Major	none
3/30/1977	8.58	4,590	Minor	none	11/9/1996	10.12	6,670	Moderate	none
9/21/1977	9.53	6,030	Minor	none	12/2/1996	10.45	7,190	Moderate	none
10/18/1977	9.66	6,250	Minor	none	1/8/1998	10.32	6,990	Moderate	none
4/2/1978	9.14	5,410	Minor	none	1/24/1999	9.78	6,160	Minor	none
4/5/1978	8.93	5,100	Minor	none	2/28/2000	10.96	8,030	Moderate	none
1/2/1979	8.76	4,860	Minor	none	5/14/2000	10.14	6,700	Moderate	none

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County of Forecast Point: Cortland

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4/9/2001	10.58	7,400	Moderate	none	2/1/2013	8.36	4,020	Minor	none
6/24/2001	8.91	4,930	Minor	none	7/2/2013	9.83	5,900	Minor	none
3/21/2003	9.33	5,510	Minor	none	3/30/2014	8.53	4,200	Minor	none
12/12/2003	8.47	4,350	Minor	none	4/4/2015	9.09	4,890	Minor	none
3/6/2004	9.19	5,310	Minor	none	4/10/2015	9.38	5,270	Minor	none
3/28/2004	8.61	4,530	Minor	none	4/14/2015	8.18	3,630	Minor	none
1/15/2005	8.49	4,370	Minor	none	2/26/2017	8.22	3,870	Minor	none
4/3/2005	14.07	14,200	Major	none	4/7/2017	8.2	3,850	Minor	none
6/28/2006	10.95	7,620	Moderate	none	5/7/2017	8.12	3,770	Minor	none
11/17/2006	8.31	7,620	Minor	none	7/15/2017	8.16	3,810	Minor	none
3/15/2007	9.85	5,930	Minor	none	3/31/2018	8.64	4,320	Minor	none
3/27/2007	9.54	5,810	Minor	none	11/1/2019	9.75	5,520	Minor	none
2/7/2008	8.54	4,210	Minor	none					
3/9/2008	8.19	3,840	Minor	none					
12/29/2008	8.07	3,720	Minor	none					
3/10/2009	8.95	4,710	Minor	none					
1/26/2010	9.01	4,780	Minor	none					
10/1/2010	11.31	8,230	Moderate	none					
3/11/2011	10.95	7,620	Moderate	none					
3/19/2011	8.23	3,380	Minor	none					
4/6/2011	8.03	3,680	Minor	none					
4/17/2011	8.48	4,150	Minor	none					
9/8/2011	9.88	5,970	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								