

Historical Floods: Ramapo River near Mahwah, NJ

Latitude: 41.098

Period of Record: 1903-Present

Longitude: -74.163

Flood Stage: 8

Last Flood: 12/21/2018

Number of Floods: 106

Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code	Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code
10/9/1903	11	12,400	Moderate	C1 F4 G1	8/19/1955	11.35	8,580	Moderate	none
1/22/1910	8.4	5,200	Minor	C1 G1	10/16/1955	12.53	10,900	Major	none
9/2/1927	8.23	5,140	Minor	C1 G1	12/21/1957	9.33	3,800	Moderate	none
8/24/1933	8.4	5,650	Minor	C1 G1	2/28/1958	8.39	2,510	Minor	none
3/12/1936	9	7,780	Moderate	C1 G1	4/7/1958	8.14	2,240	Minor	none
2/22/1937	8.05	2,500	Minor	none	4/5/1960	8.07	2,170	Minor	none
1/25/1938	8.15	2,620	Minor	none	8/20/1960	9.1	3,450	Moderate	none
9/22/1938	10.4	6,720	Moderate	none	9/13/1960	8.48	2,620	Minor	none
12/6/1938	8.06	2,480	Minor	none	2/26/1961	8.87	3,120	Minor	none
7/19/1945	8.67	3,350	Minor	none	3/13/1962	8.25	2,360	Minor	none
7/23/1945	9.25	4,330	Moderate	none	5/29/1968	11.87	8,770	Moderate	none
12/31/1948	9.18	4,200	Moderate	none	3/25/1969	9	3,000	Moderate	none
3/31/1951	10.67	6,940	Moderate	none	12/11/1969	8.1	2,100	Minor	none
12/21/1951	8.14	2,610	Minor	none	2/3/1970	8.5	2,500	Minor	none
3/12/1952	9.18	4,150	Moderate	none	2/11/1970	8.89	2,890	Minor	none
4/5/1952	8.09	2,550	Minor	none	4/2/1970	9.25	3,380	Moderate	none
6/2/1952	9.05	3,940	Moderate	none	8/28/1971	10.76	6,700	Moderate	none
11/23/1952	8	2,440	Minor	none	9/12/1971	9.62	4,800	Moderate	none
1/25/1953	8.07	2,520	Minor	none	3/3/1972	8.02	2,100	Minor	none
8/13/1955	9.53	4,740	Moderate	none	6/23/1972	8.55	2,630	Minor	none

Drainage Area: 120 square miles

Gage Datum: 253.1 ft MSL

Data represent all historical events.
Passaic Basin

County of Gage: Bergen
County of Forecast Point: Bergen

Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code	Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code
11/8/1972	8.81	2,890	Minor	none	1/5/1982	8.4	2,520	Minor	none
2/3/1973	9.77	4,340	Moderate	none	3/19/1983	9.76	4,480	Moderate	none
6/30/1973	8.1	2,180	Minor	none	3/21/1983	8.21	2,310	Minor	none
12/21/1973	10.5	6,050	Moderate	none	4/17/1983	8.3	2,410	Minor	none
3/20/1975	8.44	2,500	Minor	none	12/13/1983	10.28	5,540	Moderate	none
7/14/1975	8.03	2,100	Minor	none	4/5/1984	13.35	12,100	Major	none
9/27/1975	8.85	2,940	Minor	none	5/30/1984	9.37	3,780	Moderate	none
1/28/1976	8.65	2,740	Minor	none	8/3/1986	8.27	3,370	Minor	none
2/25/1977	8.9	3,030	Minor	none	4/5/1987	9.96	6,410	Moderate	none
3/23/1977	9.65	4,100	Moderate	none	5/6/1989	8.3	3,510	Minor	none
11/8/1977	12.44	11,800	Major	none	5/17/1989	9.36	5,230	Moderate	none
1/9/1978	8.52	2,570	Minor	none	10/21/1989	8.67	4,060	Minor	none
1/26/1978	8.17	2,210	Minor	none	11/12/1995	8.88	4,330	Minor	none
3/27/1978	8.89	3,030	Minor	none	1/20/1996	8.83	4,250	Minor	none
5/15/1978	9.11	3,350	Moderate	none	1/28/1996	8.69	3,420	Minor	none
1/21/1979	8.34	2,380	Minor	none	7/14/1996	8.47	3,160	Minor	none
1/25/1979	9.9	4,750	Moderate	none	10/20/1996	8.59	3,300	Minor	none
3/7/1979	8.66	2,740	Minor	none	12/2/1996	8.15	2,810	Minor	none
5/25/1979	8.76	2,900	Minor	none	5/11/1998	8.01	3,340	Minor	none
3/22/1980	10.7	6,520	Moderate	none	3/22/1999	8.35	3,022	Minor	none
4/10/1980	10.43	5,880	Moderate	none	9/16/1999	12.52	11,000	Major	none
2/20/1981	9.06	3,270	Moderate	none	12/11/2003	8.8	4,200	Minor	none
5/12/1981	8.47	2,520	Minor	none	12/25/2003	8.17	3,552	Minor	none

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County of Forecast Point: Bergen

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9/18/2004	8.45	3,640	Minor	none					
4/3/2005	9.87	6,220	Moderate	none					
10/9/2005	9.6	5,910	Moderate	none					
10/13/2005	9.85	6,170	Moderate	none					
4/16/2007	10.99	8,870	Moderate	none					
12/12/2008	8.07	3,090	Minor	none					
3/14/2010	11.9	10,200	Moderate	none					
3/30/2010	8.09	3,120	Minor	none					
3/7/2011	11.16	9,320	Moderate	none					
3/11/2011	10.72	8,180	Moderate	none					
4/17/2011	9.55	5,520	Moderate	none					
6/23/2011	8.73	3,540	Minor	none					
8/28/2011	15.77	18,300	Major	none					
9/8/2011	9.54	5,040	Moderate	none					
12/8/2011	8.36	2,780	Minor	none					
12/21/2012	8.52	3,410	Minor	none					
5/1/2014	8.15	2,910	Minor	none					
2/25/2016	8.3	3,190	Minor	none					
11/3/2018	8.95	4,480	Minor	none					
12/21/2018	8.12	3,410	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								