

Historical Floods: Rivanna River at Palmyra, VA

Latitude: 37.858
Flood Stage: 17

Period of Record: 1934-Present
Last Flood: 3/22/2019

Longitude: -78.266
Number of Floods: 126

Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code	Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code
9/17/1934	24.75	24,000	Minor	G1	3/23/1949	19.25	11,900	Minor	none
12/1/1934	20.6	13,200	Minor	G1	8/15/1949	21.7	17,200	Minor	none
1/23/1935	20.17	12,800	Minor	G1	12/5/1950	21.55	17,000	Minor	none
9/6/1935	26.27	29,000	Moderate	G1	6/10/1951	21.13	15,900	Minor	none
1/3/1936	20.54	13,900	Minor	G1	2/4/1952	17.38	11,000	Minor	none
1/19/1936	19.53	12,400	Minor	G1	3/12/1952	17.8	11,400	Minor	none
3/18/1936	29.26	39,900	Moderate	G1	8/19/1955	29	34,800	Moderate	none
10/18/1936	18.19	10,600	Minor	G1	10/1/1959	20.41	15,700	Minor	none
1/21/1937	19.65	12,500	Minor	G1	2/19/1960	18.27	12,700	Minor	none
2/22/1937	17.05	9,330	Minor	G1	4/13/1961	17.83	12,100	Minor	none
4/26/1937	33.35	56,700	Major	G1	10/21/1961	24.27	22,900	Minor	none
10/20/1937	23.45	20,000	Minor	G1	3/13/1962	17.9	12,200	Minor	none
8/17/1940	21.78	16,300	Minor	G1	3/12/1963	18.63	13,100	Minor	none
8/9/1942	18.59	11,400	Minor	G1	2/8/1965	21.77	18,000	Minor	none
10/16/1942	36.5	78,000	Major	G1	3/8/1967	18.41	12,800	Minor	none
9/19/1944	30.5	39,600	Moderate	G1	6/8/1969	18.65	13,000	Minor	none
4/1/1948	21.54	16,800	Minor	none	8/20/1969	39.85	86,000	Major	none
8/4/1948	22.9	19,800	Minor	none	5/31/1971	23.39	21,000	Minor	none
12/4/1948	26.78	28,800	Moderate	none	10/25/1971	18.46	12,600	Minor	none
12/31/1948	18.27	10,700	Minor	none	2/14/1972	18.76	12,900	Minor	none

Drainage Area: 663 square miles
Gage Datum: 210.39 ft MSL

Data represent all historical events.
James Basin

County of Gage: Fluvanna
County of Forecast Point: Fluvanna

Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code	Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code
6/22/1972	37.34	73,400	Major	none	4/11/1983	21.87	17,000	Minor	none
10/6/1972	31.07	45,800	Moderate	none	4/24/1983	20.2	13,800	Minor	none
11/15/1972	17.32	11,300	Minor	none	2/15/1984	24.42	22,800	Minor	none
2/2/1973	21.07	16,000	Minor	none	3/29/1984	23.76	21,200	Minor	none
12/21/1973	20.32	14,900	Minor	none	4/5/1984	18.1	11,200	Minor	none
3/20/1975	26.38	28,100	Moderate	none	8/19/1985	19.57	12,900	Minor	none
9/26/1975	23.46	20,300	Minor	none	11/5/1985	26.53	31,800	Moderate	none
1/1/1976	18.99	13,200	Minor	none	4/17/1987	25.59	28,700	Moderate	none
1/28/1976	17.58	11,500	Minor	none	9/9/1987	26.65	32,200	Moderate	none
10/10/1976	22.41	18,100	Minor	none	5/6/1989	26.33	31,100	Moderate	none
1/9/1978	20.07	14,700	Minor	none	7/16/1989	19.92	14,600	Minor	none
1/26/1978	23.51	20,800	Minor	none	5/27/1990	18.73	12,700	Minor	none
5/14/1978	18.63	12,800	Minor	none	10/24/1990	21.94	18,500	Minor	none
1/25/1979	17.29	11,200	Minor	none	1/12/1991	19.75	14,300	Minor	none
2/26/1979	23.58	21,000	Minor	none	4/22/1992	23.77	23,200	Minor	none
6/3/1979	22.64	18,800	Minor	none	11/24/1992	21.14	16,800	Minor	none
9/6/1979	25.5	25,800	Moderate	none	12/11/1992	19.37	13,700	Minor	none
9/22/1979	24.45	23,100	Minor	none	3/5/1993	26.25	30,800	Moderate	none
4/9/1980	17.19	11,000	Minor	none	4/17/1993	17.11	10,500	Minor	none
2/3/1982	18.27	12,300	Minor	none	11/28/1993	22.48	19,800	Minor	none
5/28/1982	18.31	12,300	Minor	none	2/24/1994	18.3	12,000	Minor	none
6/14/1982	19.53	13,800	Minor	none	3/28/1994	20.93	16,400	Minor	none
4/3/1983	22.02	17,300	Minor	none	1/16/1995	19.24	13,500	Minor	none

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6/27/1995	17.58	11,100	Minor	none	4/17/2011	19.71	14,600	Minor	none
6/29/1995	19.36	13,700	Minor	none	5/18/2011	19.19	23,300	Minor	none
1/20/1996	25.03	27,000	Moderate	none	12/8/2011	19.46	14,100	Minor	none
1/27/1996	17.93	11,600	Minor	none	1/31/2013	19.33	13,900	Minor	none
9/7/1996	31.54	50,900	Moderate	none	5/1/2014	21.5	18,400	Minor	none
1/29/1998	21.97	18,500	Minor	none	5/16/2014	24.72	26,500	Minor	none
2/5/1998	18.45	12,200	Minor	none	4/20/2015	17.78	12,000	Minor	none
2/18/1998	23.96	23,800	Minor	none	5/6/2017	17.83	12,000	Minor	none
3/21/1998	18.75	12,700	Minor	none	2/11/2018	17.93	12,100	Minor	none
5/8/1998	21.28	17,100	Minor	none	5/19/2018	19.2	13,700	Minor	none
9/30/1999	23.31	22,700	Minor	none	6/1/2018	25.51	28,800	Moderate	none
2/23/2003	23.79	23,275	Minor	none	6/23/2018	19.72	14,200	Minor	none
3/21/2003	20.68	15,970	Minor	none	9/18/2018	24.22	24,800	Minor	none
7/3/2003	21.32	17,687	Minor	none	10/12/2018	19.97	14,600	Minor	none
9/19/2003	25.91	30,000	Moderate	none	11/16/2018	18.63	12,600	Minor	none
12/11/2003	19.59	14,400	Minor	none	12/21/2018	19.57	13,800	Minor	none
9/9/2004	17.98	12,200	Minor	none	3/22/2019	17.2	11,300	Minor	none
9/29/2004	18.39	12,600	Minor	none					
1/14/2005	20.78	16,800	Minor	none					
11/30/2005	19.53	14,300	Minor	none					
10/7/2006	19.09	13,500	Minor	none					
1/26/2010	23.52	23,300	Minor	none					
3/11/2011	17.79	20,400	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								