Historical Floods: James River at Lick Run, VA

Latitude: 37.774 Flood Stage: 16				Period of Record Last Flood: 9					Longitude: -79.784 Number of Floods: 8
Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code	Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code
10/3/1877	-9999	-9,999	Missing	C1	4/14/1949	20.45	40,600	Minor	none
11/24/1877	33	120,000	Major	C1 C8 F1	12/4/1950	16.23	26,100	Minor	none
10/13/1893	-9999	-9,999	Missing	C1	12/8/1950	20.45	38,300	Minor	none
3/28/1913	30.4	98,000	Major	C1 C8 F1	6/14/1951	16.75	27,800	Minor	none
5/12/1924	24.6	57,500	Moderate	C1 C4 C8	3/12/1952	19.07	34,300	Minor	none
12/26/1926	20	37,000	Minor	C1	2/22/1953	20.55	38,900	Minor	none
11/18/1929	17.75	31,400	Minor	none	3/24/1953	17.88	30,800	Minor	none
2/5/1932	18.14	32,300	Minor	none	3/2/1954	18.82	33,400	Minor	none
12/1/1934	16.82	25,700	Minor	none	10/16/1954	18.14	31,400	Minor	none
1/23/1935	22.98	53,000	Moderate	none	3/6/1955	19.5	35,500	Minor	none
3/18/1936	25.65	66,000	Major	none	4/6/1957	19.56	35,800	Minor	none
1/21/1937	17.45	28,700	Minor	none	3/31/1960	19.65	35,400	Minor	none
1/31/1939	16.98	27,700	Minor	none	10/21/1961	19.87	36,200	Minor	none
2/4/1939	16.21	25,800	Minor	none	3/22/1962	18.18	31,500	Minor	none
5/31/1940	16.12	25,500	Minor	none	3/12/1963	22.6	45,200	Moderate	none
5/17/1942	21.1	43,500	Minor	none	3/6/1964	16.07	25,900	Minor	none
5/22/1942	18.12	32,300	Minor	none	2/8/1965	16.5	27,000	Minor	none
3/14/1943	17.6	30,800	Minor	none	2/14/1966	16.34	26,400	Minor	none
1/8/1946	16	26,100	Minor	none	3/8/1967	22.3	42,800	Moderate	none
2/15/1948	16.1	26,400	Minor	none	3/15/1967	19.22	32,700	Minor	none

Drainage Area: 1371 square miles Gage Datum: 977.63 ft MSL

Data represent all historical events. James Basin County of Gage: Botetourt County of Forecast Point: Botetourt

Date of FloodCrest (ft)Streamflow (cfs)CategoryCode8/20/196925.5358,500Majornone4/16/198720.2338,000MinorF212/31/196919.8834,800Minornone4/22/199218.9734,500MinorF22/14/197119.6133,900Minornone3/4/199318.0432,000MinorF25/31/197119.1732,700Minornone11/15/195519.2635,400MinorF22/26/197219.8434,500Minornone11/19/19616.4327,900MinorF22/2/197317.8229,000Minornone11/2/196818.4333,000MinorF22/3/197317.8229,000Minornone11/2/2/00318.4333,000MinorF23/2/197318.6631,200Minornone11/2/2/00318.9333,700MinorF21/2/2/197419.4132,800Minornone11/2/2/00318.9333,000MinorF23/2/197417.5128,800Minornone11/2/2/00318.9333,000MinorF23/2/197517.5128,800Minornone11/2/2/00318.9333,000MinorF23/2/197417.5128,800Minornone11/2/2/00318.9333,000MinorF21/2/2/197517.5128,300Minor										
12/31/1969 19.88 34,800 Minor none 12/31/1971 19.61 33,900 Minor none 15/31/1971 19.17 32,700 Minor none 12/26/1972 19.84 34,500 Minor none 11/15/1995 19.26 35,400 Minor F2 12/26/1972 19.84 34,500 Minor none 1/15/1995 19.26 35,400 Minor F2 12/21/1972 27.01 66,200 Major none 1/19/196 25.14 57,800 Major F2 2/3/1973 17.82 29,000 Minor none 1/8/1998 18.43 33,000 Minor F2 3/17/1973 18.66 31,200 Minor none 1/12/2/2003 19.92 37,600 Minor F2 12/27/1973 24.77 54,200 Moderate none 9/29/2004 21.69 43,700 Minor F2 1/1/1976 16.4 25,600 Minor none 1/31/2013 16.53 27,400 Minor	Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code	Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code
2/14/197119.6133,900Minornone5/31/197119.1732,700Minornone2/26/197219.8434,500Minornone6/21/197227.0166,200Majornone1/15/199519.2635,400MinorF22/3/197317.8229,000Minornone3/17/197318.6631,200Minornone3/17/197318.6631,200Minornone1/2/2/199616.4327,900MinorF23/17/197319.4433,500Minornone1/2/2/197324.7754,200Moderatenone9/29/201421.6943,700MinorF23/20/197517.7928,900Minornone1/15/197616.425,600Minornone1/19/197617.1327,300Minornone1/26/197821.6640,600Minornone3/21/197818.0129,400Minornone3/21/197818.5430,800Minornone3/21/197818.5430,800Minornone3/21/197818.5430,800Minornone3/21/197818.5430,800Minornone3/21/197818.5430,800Minornone3/21/197818.5430,800Minornone3/21/197818.5430,800Minornone3/21/197818.5430,800 <td>8/20/1969</td> <td>25.53</td> <td>58,500</td> <td>Major</td> <td>none</td> <td>4/16/1987</td> <td>20.23</td> <td>38,000</td> <td>Minor</td> <td>F2</td>	8/20/1969	25.53	58,500	Major	none	4/16/1987	20.23	38,000	Minor	F2
5/31/197119.1732,700Minornone2/26/197219.8434,500Minornone1/15/199519.2635,400MinorF1 E26/21/197227.0166,200Majornone1/2/2/199616.4327,900MinorF22/3/197317.8229,000Minornone1/8/199818.4333,000MinorF23/17/197318.6631,200Minornone1/2/2/200319.9237,600MinorF21/2/7/197324.7754,200Moderatenone9/29/200421.6943,700MinorF23/13/197417.5128,300Minornone6/27/200619.7937,100MinorF23/20/197517.7928,900Minornone1/25/201018.5833,300MinorF21/1/197616.425,600Minornone1/25/201018.5833,300MinorF21/1/197616.425,600Minornone1/125/201018.5833,300MinorF21/26/197722.5443,700Moderatenone1/31/201316.5327,400MinorF23/15/197818.0129,400Minornone5/7/201317.2929,500MinorF23/5/197916.525,800Minornone9/28/201817.1928,200Minornone3/5/197916.525,800Minornone9/28/2018	12/31/1969	19.88	34,800	Minor	none	4/22/1992	18.97	34,500	Minor	F2
2/26/197219.8434,500Minornone1/19/199625.1457,800MajorF1 F26/21/197227.0166,200Majornone12/2/199616.4327,900MinorF22/3/197317.8229,000Minornone1/8/199818.4333,000MinorF23/17/197318.6631,200Minornone2/22/200319.9237,600MinorF25/28/197319.4433,500Minornone2/22/200319.9237,600MinorF21/2/7/197324.7754,200Moderatenone6/27/200619.7937,100MinorF23/20/197517.7928,900Minornone6/27/200619.7937,100MinorF21/1/197616.425,600Minornone1/31/201316.5327,400MinorF21/2/5/197722.5443,700Moderatenone1/31/201316.5327,400MinorF21/2/5/197818.0129,400Minornone5/7/201317.2929,500MinorF23/27/197818.5430,800Minornone6/24/201622.8448,000ModerateF23/27/197818.5430,800Minornone9/28/201817.1928,200Minornone3/5/197916.525,800Minornone9/28/201817.1928,200Minornone3/5	2/14/1971	19.61	33,900	Minor	none	3/4/1993	18.04	32,000	Minor	F2
6/21/197227.0166,200Majornone12/2/199616.4327,900MinorF22/3/197317.8229,000Minornone1/8/199818.4333,000MinorF23/17/197318.6631,200Minornone2/22/200319.9237,600MinorF25/28/197319.4433,500Minornone11/20/200318.0932,110MinorF212/27/197324.7754,200Moderatenone9/29/200421.6943,700MinorF23/20/197517.7928,900Minornone4/16/200717.1829,200MinorF21/1/197616.425,600Minornone1/25/201018.5833,300MinorF21/26/197817.1327,300Minornone1/31/201316.5327,400MinorF21/26/197818.6129,400Minornone5/7/201317.2929,500MinorF23/27/197818.6430,800Minornone9/28/201622.8448,000ModerateF23/27/197818.5430,800Minornone9/28/201817.1928,200Minornone3/27/197818.6429,400Minornone9/28/201817.1928,200Minornone3/5/197916.525,800Minornone9/28/201817.1928,200Minornone3/5/1979	5/31/1971	19.17	32,700	Minor	none	1/15/1995	19.26	35,400	Minor	F2
2/3/1973 17.82 29,000 Minor none 1/8/1998 18.43 33,000 Minor F2 3/17/1973 18.66 31,200 Minor none 2/22/2003 19.92 37,600 Minor F2 5/28/1973 19.44 33,500 Minor none 11/20/2003 18.09 32,110 Minor F2 12/27/1973 24.77 54,200 Moderate none 9/29/2004 21.69 43,700 Minor F2 3/20/1975 17.79 28,900 Minor none 6/27/2006 19.79 37,100 Minor F2 1/1/1976 16.4 25,600 Minor none 1/125/2010 18.58 33,300 Minor F2 1/09/1976 17.13 27,300 Minor none 1/31/2013 16.53 27,400 Minor F2 3/15/1978 18.01 29,400 Minor none 5/7/2013 17.29 29,500 Minor none 3/27/1978 18.04 30,800 Minor none 9/28/2018 <t< td=""><td>2/26/1972</td><td>19.84</td><td>34,500</td><td>Minor</td><td>none</td><td>1/19/1996</td><td>25.14</td><td>57,800</td><td>Major</td><td>F1 F2</td></t<>	2/26/1972	19.84	34,500	Minor	none	1/19/1996	25.14	57,800	Major	F1 F2
3/17/1973 18.66 31,200 Minor none 2/22/2003 19.92 37,600 Minor F2 5/28/1973 19.44 33,500 Minor none 11/20/2003 18.09 32,110 Minor F2 12/27/1973 24.77 54,200 Moderate none 9/29/2004 21.69 43,700 Minor F2 5/13/1974 17.51 28,300 Minor none 6/27/2006 19.79 37,100 Minor F2 3/20/1975 17.79 28,900 Minor none 4/16/2007 17.18 29,200 Minor F2 1/1/1976 16.4 25,600 Minor none 1/25/2010 18.58 33,300 Minor F2 1/0/9/1976 17.13 27,300 Minor none 1/31/2013 16.53 27,400 Minor F2 1/26/1978 18.01 29,400 Minor none 6/24/2016 22.84 48,000 Moderate F2 3/5/1979 18.04 29,400 Minor none 9/28/2018	6/21/1972	27.01	66,200	Major	none	12/2/1996	16.43	27,900	Minor	F2
5/28/1973 19.44 33,500 Minor none 11/20/2003 18.09 32,110 Minor F2 12/27/1973 24.77 54,200 Moderate none 9/29/204 21.69 43,700 Minor F2 5/13/1974 17.51 28,300 Minor none 6/27/2006 19.79 37,100 Minor F2 3/20/1975 17.79 28,900 Minor none 4/16/2007 17.18 29,200 Minor F2 1/1/1976 16.4 25,600 Minor none 1/1/25/2010 18.58 33,300 Minor F2 1/09/1976 17.13 27,300 Minor none 1/31/2013 16.53 27,400 Minor F2 1/26/1978 21.66 40,600 Minor none 5/7/2013 17.29 29,500 Minor F2 3/15/1978 18.01 29,400 Minor none 6/24/2016 22.84 48,000 Moderate F2 3/27/1978 18.04 29,400 Minor none 9/28/2018	2/3/1973	17.82	29,000	Minor	none	1/8/1998	18.43	33,000	Minor	F2
12/27/1973 24.77 54,200 Moderate none 9/29/2004 21.69 43,700 Minor F2 5/13/1974 17.51 28,300 Minor none 6/27/2006 19.79 37,100 Minor F2 3/20/1975 17.79 28,900 Minor none 4/16/2007 17.18 29,200 Minor F2 1/1/1976 16.4 25,600 Minor none 1/25/2010 18.58 33,300 Minor F2 1/0/9/1976 17.13 27,300 Minor none 1/31/2013 16.53 27,400 Minor F2 4/5/1977 22.54 43,700 Moderate none 5/7/2013 17.29 29,500 Minor F2 1/26/1978 18.01 29,400 Minor none 6/24/2016 22.84 48,000 Moderate F2 3/27/1978 18.04 29,400 Minor none 9/28/2018 17.19 28,200 Minor none 3/5/1979 16.5 25,800 Minor none F2 F	3/17/1973	18.66	31,200	Minor	none	2/22/2003	19.92	37,600	Minor	F2
5/13/1974 17.51 28,300 Minor none 6/27/2006 19.79 37,100 Minor F2 3/20/1975 17.79 28,900 Minor none 4/16/2007 17.18 29,200 Minor F2 1/1/1976 16.4 25,600 Minor none 1/25/2010 18.58 33,300 Minor F2 10/9/1976 17.13 27,300 Minor none 1/31/2013 16.53 27,400 Minor F2 4/5/1977 22.54 43,700 Moderate none 5/7/2013 17.29 29,500 Minor F2 1/26/1978 18.01 29,400 Minor none 6/24/2016 22.84 48,000 Moderate F2 3/15/1978 18.54 30,800 Minor none 9/28/2018 17.19 28,200 Minor none 3/5/1979 16.5 25,800 Minor none 9/28/2018 17.19 28,200 Minor none 6/13/1982 17.79 28,900 Minor F2 5/11/10/10/10/10/10/10/1	5/28/1973	19.44	33,500	Minor	none	11/20/2003	18.09	32,110	Minor	F2
3/20/1975 17.79 28,900 Minor none 1/1/1976 16.4 25,600 Minor none 10/9/1976 17.13 27,300 Minor none 4/5/1977 22.54 43,700 Moderate none 1/26/1978 21.66 40,600 Minor none 3/15/1978 18.01 29,400 Minor none 3/27/1978 18.54 30,800 Minor none 3/5/1979 16.5 25,800 Minor none 6/13/1982 17.79 28,900 Minor none 6/13/1982 17.79 28,900 Minor none	12/27/1973	24.77	54,200	Moderate	none	9/29/2004	21.69	43,700	Minor	F2
1/1/197616.425,600Minornone1/25/201018.5833,300MinorF210/9/197617.1327,300Minornone1/31/201316.5327,400MinorF24/5/197722.5443,700Moderatenone5/7/201317.2929,500MinorF21/26/197821.6640,600Minornone6/24/201622.8448,000ModerateF23/15/197818.0129,400Minornone4/16/201817.2428,300Minornone3/27/197818.5430,800Minornone9/28/201817.1928,200Minornone3/5/197916.525,800MinornoneF2F2F2F26/13/198217.7928,900MinorF2F2F2F2F2F2F2F2F2F2F2F2F2F3F2F2F2F2F2F2F2F2F3F2F2F2F2F2F2F2F2F3F2F2F2F2F2F2F2F2F3F3F2F2F2F2F2F2F2F3F2F2F2F2F2F2F2F2F3F2F2F2F2F2F2F2F2F3F3F3F2F2F2F2F2F2 <td>5/13/1974</td> <td>17.51</td> <td>28,300</td> <td>Minor</td> <td>none</td> <td>6/27/2006</td> <td>19.79</td> <td>37,100</td> <td>Minor</td> <td>F2</td>	5/13/1974	17.51	28,300	Minor	none	6/27/2006	19.79	37,100	Minor	F2
10/9/1976 17.13 27,300 Minor none 1/31/2013 16.53 27,400 Minor F2 4/5/1977 22.54 43,700 Moderate none 5/7/2013 17.29 29,500 Minor F2 1/26/1978 21.66 40,600 Minor none 6/24/2016 22.84 48,000 Moderate F2 3/15/1978 18.01 29,400 Minor none 6/24/2016 22.84 48,000 Moderate F2 3/27/1978 18.54 30,800 Minor none 9/28/2018 17.19 28,200 Minor none 3/5/1979 16.5 25,800 Minor none 9/28/2018 17.19 28,200 Minor none 6/13/1982 17.79 28,900 Minor F2 1/2	3/20/1975	17.79	28,900	Minor	none	4/16/2007	17.18	29,200	Minor	F2
4/5/197722.5443,700Moderatenone1/26/197821.6640,600Minornone3/15/197818.0129,400Minornone3/27/197818.5430,800Minornone3/27/197918.0429,400Minornone3/5/197916.525,800Minornone6/13/198217.7928,900MinorF2	1/1/1976	16.4	25,600	Minor	none	1/25/2010	18.58	33,300	Minor	F2
1/26/197821.6640,600Minornone3/15/197818.0129,400Minornone3/27/197818.5430,800Minornone2/25/197918.0429,400Minornone3/5/197916.525,800Minornone6/13/198217.7928,900MinorF2	10/9/1976	17.13	27,300	Minor	none	1/31/2013	16.53	27,400	Minor	F2
3/15/1978 18.01 29,400 Minor none 3/27/1978 18.54 30,800 Minor none 2/25/1979 18.04 29,400 Minor none 3/5/1979 16.5 25,800 Minor none 6/13/1982 17.79 28,900 Minor F2	4/5/1977	22.54	43,700	Moderate	none	5/7/2013	17.29	29,500	Minor	F2
3/27/1978 18.54 30,800 Minor none 2/25/1979 18.04 29,400 Minor none 3/5/1979 16.5 25,800 Minor none 6/13/1982 17.79 28,900 Minor F2	1/26/1978	21.66	40,600	Minor	none	6/24/2016	22.84	48,000	Moderate	F2
2/25/1979 18.04 29,400 Minor none 3/5/1979 16.5 25,800 Minor none 6/13/1982 17.79 28,900 Minor F2	3/15/1978	18.01	29,400	Minor	none	4/16/2018	17.24	28,300	Minor	none
3/5/1979 16.5 25,800 Minor none 6/13/1982 17.79 28,900 Minor F2	3/27/1978	18.54	30,800	Minor	none	9/28/2018	17.19	28,200	Minor	none
6/13/1982 17.79 28,900 Minor F2	2/25/1979	18.04	29,400	Minor	none					
	3/5/1979	16.5	25,800	Minor	none					
2/14/1984 17.3 27,800 Minor F2	6/13/1982	17.79	28,900	Minor	F2					
	2/14/1984	17.3	27,800	Minor	F2					
11/5/1985 30.22 87,500 Major F2	11/5/1985	30.22	87,500	Major	F2					

Drainage Area: 1371 square miles Gage Datum: 977.63 ft MSL

Data represent all historical events. James Basin County of Gage: Botetourt County of Forecast Point: Botetourt

Date of Flood	Crest (ft)	Streamflow (cfs)	Category	
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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.

Code

- 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