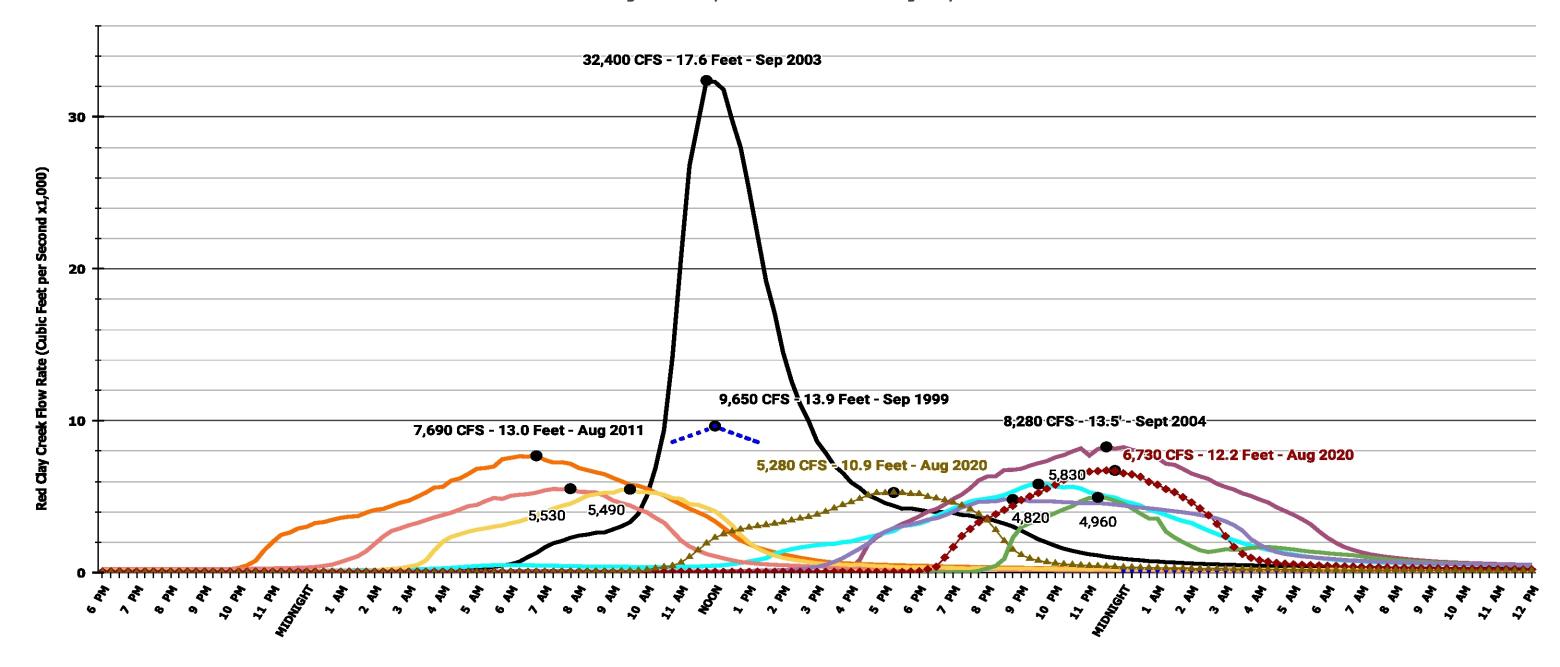
USGS Stream Data - Red Clay Creek at Wooddale - Station 01480000

Flooding Events of 4,500 CFS or Greater As of August 8, 2020



6-hours Pre-event Day -- Peak Flooding Event Day -- 12-hours Post-event Day

Peak Flow = 1 - 9/15/2003 ○ 2 - 9/16/1999 = 3 - 9/28-29/2004 = 4 - 8/29/2011 ◆ 5 - 8/7-8/2020 = 6 - 4/30-5/1/2014 = 7 - 10/2/2010 = 8 - 6/29/2006 ▲ 9 - 8/4/2020 = 10 - 7/26/2017 = 11 - 6/20-21/2003

Wooddale USGS Stream Gauge Data

Hydrologic Unit Code 02040205 Latitude 39°45'46.1", Longitude 75°38'11.4" NAD83 Drainage area 47.0 square miles

Gage datum 80.34 feet above NAVD88

USGS Gage ID: 01480000 <u>USGS Wooddale Stream I</u>

Nominal Red Clay Creek Stream Height at Wooddale is 2.92 Feet; Flood Stage is 7.0 Feet

Peak Gage-Height Qualification Codes

1 -- Gage height affected by backwater

Peak Streamflow Qualification Codes

8 -- Discharge actually greater than indicated value <u>USGS Wooddale Stream Data</u>

Water Year	Date	Gage Height	Streamflow	Height	Qualification
		(feet)	(CFS - mean)	Ranking	Code
1943	Wednesday, May 12, 1943	5.52	1,730	62	
1944	Tuesday, January 4, 1944	5.38	1,670	66	
1945	Wednesday, July 18, 1945	7.29	2,810	32	
1946	Tuesday, July 23, 1946	6.76	2,510	42	
1947	Thursday, May 1, 1947	6.07	2,030	49	
1948	Saturday, February 14, 1948	5.5	1,730	63	
1949	Thursday, December 30, 1948	5.8	1,880	56	
1950	Thursday, August 3, 1950	6.92	2,570	38	
1951	Saturday, November 25, 1950	7.2	2,740	35	
1952	Wednesday, July 9, 1952	7.21	2,750	34	
1953	Saturday, January 24, 1953	5.85	1,800	53	
1954	Monday, December 14, 1953	4.98	1,260	75	
1955	Thursday, August 18, 1955	8.38	3,650	22	
1956	Saturday, July 21, 1956	5.42	1,520	65	
1957	Friday, November 2, 1956	6.88	2,520	39	
1958	Wednesday, June 11, 1958	6.67	2,370	43	
1959	Friday, January 2, 1959	6.17	2,020	47	
1960	Monday, September 12, 1960	9.93	4,780	10	
1961	Thursday, April 13, 1961	5.06	1,390	73	
1962	Monday, March 12, 1962	5.67	1,870	58	
1963	Tuesday, February 12, 1963	5.26	1,560	68	
1964	Thursday, January 9, 1964	6.86	2,620	40	
1965	Monday, February 8, 1965	5.92	2,070	51	
1966	Sunday, February 13, 1966	7	2,730	36	
1967	Tuesday, March 7, 1967	7.23	2,910	33	

Water Year	Date	Gage Height (feet)	Streamflow (CFS - mean)	Height Ranking	Qualification Code
1968	Sunday, January 14, 1968	5.53	1,750	61	
1969	Monday, July 28, 1969	9.5	4,500	11	
1970	Thursday, April 2, 1970	6.14	2,100	48	
1971	Monday, September 13, 1971	8.1	3,520	25	
1972	Thursday, June 22, 1972	8.96	4,120	14	
1973	Friday, February 2, 1973	6.06	2,040	50	
1974	Friday, December 21, 1973	5.82	1,870	54	
1975	Monday, July 21, 1975	10.32	5,010	9	
1976	Sunday, October 19, 1975	5.36	1,540	67	
1977	Tuesday, March 22, 1977	5.58	1,710	60	
1978	Thursday, January 26, 1978	8.96	4,100	14	
1979	Sunday, January 21, 1979	7.77	3,270	28	
1980	Monday, November 26, 1979	5.17	1,410	71	
1981	Saturday, August 8, 1981	6.49	2,330	44	
1982	Wednesday, February 3, 1982	5.041	1,270	74	1
1983	Sunday, April 10, 1983	5.86	1,880	52	
1984	Tuesday, December 13, 1983	8.04	3,480	26	
1985	Tuesday, February 12, 1985	7.34	2,950	31	
1986	Wednesday, April 16, 1986	4.46	933	78	
1987	Sunday, July 12, 1987	5.62	1,730	59	
1988	Monday, November 30, 1987	5.23	1,480	70	
1989	Wednesday, July 5, 1989	8.59	3,860	19	
1990	Tuesday, May 29, 1990	5.25	1,490	69	
1991	Saturday, January 12, 1991	4.45	1,040	79	
1992	Friday, May 8, 1992	3.88	638	80	
1993	Thursday, March 4, 1993	5.69	1,770	57	
1994	Friday, January 28, 1994	8.92	4,080	16	
1995	Wednesday, March 8, 1995	5.49	1,650	64	
1996	Friday, January 19, 1996	9	4,130	13	
1997	Saturday, October 19, 1996	6.98	2,670	37	
1998	Saturday, March 21, 1998	4.51	1,170	77	
1999	Thursday, September 16, 1999	13.93	7,650	2	

Water Year	Date	Gage Height (feet)	Streamflow (CFS - mean)	Height Ranking	Qualification Code
2000	Wednesday, March 22, 2000	8.59	3,750	19	
2001	Monday, December 17, 2001	5.15	1,400	72	8
2002	Wednesday, June 19, 2002	4.66	1,270	76	-
2003	Monday, September 15, 2003	17.62	15,600	1	8
2004	Tuesday, September 28, 2004	13.53	8,280	3	
2005	Sunday, November 28, 2004	8.62	3,470	18	
2006	Wednesday, June 28, 2006	10.87	5,490	7	
2007	Friday, March 2, 2007	8.37	3,260	23	
2008	Saturday, September 6, 2008	5.81	1,460	55	
2009	Friday, December 12, 2008	7.441	2,440	30	
2010	Wednesday, December 9, 2009	7.47	2,570	29	
2011	Sunday, August 28, 2011	13	7,690	4	
2012	Thursday, December 8, 2011	6.84	2,120	41	
2013	Monday, October 29, 2012	8.31	3,010	24	
2014	Wednesday, April 30, 2014	11.4	5,830	6	
2015	Wednesday, March 4, 2015	8.72	1,915	17	1
2016	Thursday, February 25, 2016	6.46	1,750	45	
2017	Sunday, July 23, 2017	10.57	4,960	8	
2018	Monday, August 13, 2018	8.44	3,110	21	
2019	Monday, November 25, 2019	7.97	2,760	27	
2020	Friday, August 7, 2020	12.18	6,690	5	
2021	Tuesday, November 30, 2021	9.37	3,860	12	
2022	Tuesday, April 19, 2022	6.35	1,690	46	
2023					

Robert E. Wilhelm, Jr - 6/20/23