

A VERY COLD START TO 2018

Glen Allen's Records for the first 10 days

DAY	MEAN TEMP	HIGH	TIME	LOW	TIME	HEAT DEG DAYS	COOL DEG DAYS	RAIN	WIND AVG	SPEED HI	TIME	DOM DIR	MEAN BAROM	MEAN HUM
1	15.9	26.4	12:25	6.2	7:25	49	0	0.00	2	17	11:14	N	30.50	62
2	17.0	28.7	14:35	4.8	7:33	48	0	0.00	2	14	0:43	NE	30.55	55
3	23.6	35.5	12:44	9.4	4:42	42	0	0.02	2	17	22:36	SSW	30.22	53
4	23.5	31.6	13:35	13.8	23:57	40	0	0.22	6	27	3:57	NW	29.79	66
5	15.9	27.1	13:28	7.3	6:33	49	0	0.00	4	20	11:54	WNW	30.17	48
6	12.2	24.3	13:14	3.3	7:15	52	0	0.00	3	20	13:36	NW	30.47	53
7	13.1	26.7	13:54	-1.4	6:33	52	0	0.00	2	13	15:45	NNE	30.62	58
8	32.2	46.8	14:34	18.1	0:12	33	0	0.14	7	24	13:01	SSW	30.28	63
9	40.3	56.6	12:23	30.1	23:50	25	0	0.00	2	11	0:02	WSW	30.26	80
10	36.5	44.8	14:17	27.7	3:08	23	0	0.00	1	6	0:24	ESE	30.43	86
TOT	22.7	56.6	1/9/18	-1.4	1/7/18	413	0	0.38	3	27	1/4/18	SSW	30.33	62
HEAT BASE: 65.0														
COOL BASE: 65.0														



Cold, cold, cold! and likely would have been even colder had a deep snow cover been in place across the entire state.

Some interesting stats by Jeff Taylor

1. The lowest temperature for Maryland that could be found was at Oakland, Garrett County, which dropped to -17° on Jan. 3rd and 4th (Oakland also holds the state's cold record with -40° on Jan. 13, 1912. Other recent cold spots reaching $\leq 0^{\circ}$ from official locations: -11° at Sines Deep Creek (Garrett County) on Jan. 8th, -8° at Frostburg (Allegany County) on Jan. 7th, -6° at the Garrett County Airport on Jan. 5th and 7th, -5° at Savage River Dam (Garrett County) on Jan. 8th, -4° at Mechanicsville (St. Mary's County) on Jan. 6th, -3° at Millers (Carroll County) on Jan. 7th, -2° at both Smithsburg (Washington County) on Jan. 8th and Camp David (Frederick County) on Jan. 7th and 8th, -1° at both Cumberland (Allegany County) and Damascus (Montgomery County) on Jan. 8th, and 0° on Jan. 7th at Gaithersburg Airpark (Montgomery County), St. Mary's County Airport, and Ft. Meade-Tipton Airport (Anne Arundel County), and on Jan. 8th at Reisterstown (Baltimore County). Additionally, it did reach 1° right at the ocean as an unusually deep snow cover was in place at the Ocean City Airport.
2. Baltimore Airport (BWI) slipped to 1° , tying for the coldest temperature since Feb. 1996, the last time it actually fell below zero (-1° on the 5th); it was also 1° on Jan. 19, 1997 and Feb. 20, 2015. In fact, since the official climate record for Baltimore moved from downtown to the airport in Aug. 1950, this nearly 22-year period is now the longest stretch without a calendar year falling to $\leq 0^{\circ}$ dating back to Dec. 1870 when the official historical temperature records began.
3. It was Baltimore's 3rd longest streak of consecutive Minimum Temperatures of $\leq 15^{\circ}$ which occurred over 9 days ending Jan. 8th (tying several years – 2015, 1899, and 1893) but bested by the 15 days (ending Feb. 3, 1961) and 13 days (ending Jan. 17, 1912).
4. The 2 consecutive days where the Baltimore Airport had Maximum Temperatures remain below 20° (19° on the 5th, 18° on the 6th) ranks at #7 overall. The record is 6 days (ending Jan. 3, 1918), with 5 days occurring in 1899 and 1895, 4 days in 1886, and 3 days in both 1893 and 1880. Note that these higher-ranked dates are all more than 100 years ago.
5. Baltimore DID record it's coldest period when focusing on the first 7 days of the year: The Average Maximum Temperature was only 23.1° , just beating out the now #2 from 1918 of 23.4° ; the Average Minimum Temperature was a bitter 7.3° , crushing the 11.3° from 1877; the Mean Temperature of 15.2° blew away the competition of 18.4° from 1918.

So, though no extreme records were set with this recent Arctic blast, it certainly competes with previous cold spells, especially when seeing that most of the existing historical records date back to the 1800's and early 1900's.

Here is a 7-minute clip from YouTube with a drone showing ice on the Chesapeake Bay just south of the Bay Bridge, published 1/8/2018 by Goose Guy:

<https://www.youtube.com/watch?v=4UVLkW2OtH0>

Date	Max Temperature	Min Temperature	Avg Temperature	Avg Temperature Departure	HDD	CDD	Precipitation	Snowfall	Snow Depth
2018-01-01	27	11	19.0	-19.0	46	0	0.00	0.0	0
2018-01-02	29	10	19.5	-18.5	45	0	0.00	0.0	0
2018-01-03	34	8	21.0	-16.9	44	0	0.04	0.6	0
2018-01-04	30	18	24.0	-13.8	41	0	0.16	2.4	3
2018-01-05	25	12	18.5	-19.2	46	0	0.00	0.0	2
2018-01-06	23	2	12.5	-25.2	52	0	0.00	0.0	2
2018-01-07	23	-3	10.0	-27.7	55	0	0.00	0.0	2
2018-01-08	46	15	30.5	-7.1	34	0	0.09	0.0	1
2018-01-09	56	27	41.5	3.9	23	0	0.00	0.0	T

Coldest Winters in Virginia and Maryland

Norfolk							Richmond							Baltimore						
	Year	Jan	Year	Feb	Year	Dec		Year	Jan	Year	Feb	Year	Dec		Year	Jan	Year	Feb	Year	Dec
1	1977	29.1	1895	31.9	1917	33.9	1	1940	24.2	1934	28.2	1917	30.1	1	1977	22.9	1934	24.3	1989	25.4
2	1893	30.5	1934	32.0	1989	34.8	2	1977	25.2	1979	28.6	1989	31.3	2	1918	24.2	1979	25.6	1917	28.4
3	1940	31.0	1978	32.6	1963	35.1	3	1918	27.9	1978	30.3	1935	31.6	3	1893	24.3	1895	26.2	1960	28.4
4	1918	31.7	1979	33.3	2010	35.1	4	1893	28.9	1905	31.1	1963	32.4	4	1982	25.5	1905	27.3	1963	28.8
5	1981	32.7	1905	33.5	1880	36.5	5	1912	28.9	1895	31.4	1886	32.8	5	1912	25.8	1978	27.3	1876	29.0
6	1912	33.5	1968	34.0	1960	36.5	6	1970	30.0	1936	32.5	2000	33.0	6	1940	26.0	1963	27.8	1958	29.9
7	1970	33.8	1980	34.7	1958	37.1	7	1948	31.1	1899	32.9	1945	33.2	7	1994	27.1	1899	28.0	2000	30.0
8	1881	34.3	1963	35.6	1962	37.1	8	1966	31.1	1963	33.3	2010	33.3	8	1904	27.4	1885	28.5	1962	30.9
9	1968	34.8	1904	35.8	1910	37.2	9	1981	31.1	1885	33.5	1958	33.4	9	1961	27.6	1904	28.6	1910	31.2
10	1985	34.8	1902	35.9	1935	37.2	10	1936	31.4	1947	33.5	1880	33.8	10	1970	27.8	1907	28.8	1880	31.3
11	1948	34.9	1901	36.0	1955	37.7	11	1982	31.6	1958	33.7	1910	34.1	11	2004	27.8	1958	28.9	1886	31.3
12	1961	35.0	1947	36.0	1903	38.2	12	1988	32.3	1904	34.1	1960	34.6	12	1981	27.9	2007	29.1	1955	31.3

Charlottesville						Dale Enterprise						Washington								
	Year	Jan	Year	Feb	Year	Dec		Year	Jan	Year	Feb	Year	Dec		JAN	Year	FEB	Year	DEC	
1	1977	25.2	1895	27.5	1989	27.0	1	1918	19.4	1895	21.4	1917	22.0	1	1918	23.7	1934	24.6	1876	27.1
2	1893	26.6	1979	28.1	1917	28.0	2	1977	20.7	1978	23.1	1989	23.0	2	1893	24.6	1895	26.2	1917	27.9
3	1994	27.4	1905	28.2	1963	31.4	3	1881	20.7	2010	24.0	1910	25.6	3	1940	24.9	1905	26.4	1989	27.9
4	1982	27.7	1978	28.8	2010	31.5	4	1884	21.4	1899	24.2	2000	26.1	4	1912	25.0	1885	26.9	1880	29.0
5	1912	27.8	1908	30.1	2000	31.7	5	1940	21.8	1934	24.2	2010	26.3	5	1977	25.4	1899	27.4	1910	30.5
6	1978	28.8	1899	30.2	1935	31.8	6	1893	22.2	1905	24.7	1963	27.0	6	1904	27.5	1904	28.4	1904	30.9
7	1948	29.3	1958	30.8	1958	32.9	7	1912	24.2	1979	24.7	1960	27.9	7	1881	27.6	1979	28.4	1872	31.0
8	1970	30.2	1963	31.1	1903	33.4	8	1994	24.5	2007	25.9	1882	28.4	8	1982	28.1	1875	28.8	1960	31.0
9	1985	31.1	2007	31.6	1976	33.6	9	1978	24.5	1885	26.5	1909	28.5	9	1920	28.7	1936	29.6	1963	31.1
10	1920	31.4	1904	31.8	1919	33.7	10	1961	26.0	1902	27.0	1914	28.6	10	1948	28.8	1901	29.8	1909	31.8
11	2003	31.4	1977	32.1	1960	33.7	11	1970	26.2	1958	27.1	1962	29.0	11	1994	28.8	1902	29.8	2000	31.8
12	1968	31.6	1914	32.4	1944	33.8	12	1895	26.3	1904	27.4	1945	29.5	12	1888	29.2	1914	30.1	1871	32.1

Feb. 1934
Data missing