

## January 2018 Glen Allen

January was the coldest on record for the first 7 days with a mean temperature of 17.1 °F. This 7-day period was also the coldest ever first week of a new year in the 121 years of Richmond records. January 7<sup>th</sup> had the lowest temperature on record at Glen Allen. Glen Allen also had two days with 70°F temperatures; only January 2013 has had more. January had 21 days that were below freezing which is the average for Glen Allen. The average maximum temperature was 0.4°F colder than average and the minimum temperature was -3.3°F colder than average for January. The 58.4°F highest minimum was the second warmest minimum temperature on record for the month. The highest maximum of 73.2 on the 23<sup>rd</sup> was the second highest on record for January. January's monthly mean temp. was 35.78°F, a -1.5°F departure. This was only the 6<sup>th</sup> coldest on record for the month yet there were 7 days that the maximum temperature was 32°F or less. The minimum of -1.4°F on the 7<sup>th</sup> was the coldest ever recorded at Glen Allen. It was a surprise that January's departure was so little but the graph shows that after the 1<sup>st</sup> very cold week the rest of the month was mostly above average except for the 13<sup>th</sup> to the 18<sup>th</sup>.

The highest barometric pressure was 30.73 inches on the 7<sup>th</sup> which was the 3<sup>rd</sup> highest pressure ever recorded.

The precipitation for January was 2.91 inches, a departure of -0.48 inches and the 3<sup>rd</sup> lowest for January with 11 days with measurable precipitation which is average. The snowfall for January was 4.2 inches which was a negative 1.5-inch departure. The single day total of 2.2 inches on the 17<sup>th</sup> was the largest for the month. The maximum wind gust for the month was 31 mph on the 23<sup>rd</sup>.

## The Richmond International Airport

The Airport tied one and broke 5 daily records for January that are recognized by Wakefield. The -3°F on January 7<sup>th</sup> was the lowest temperature at the Airport since 1985 when -6 °F was recorded. Only 4 Januarys have had a lower minimum temperature in the past 121 years. (1935, 1940, 1942, 1985) The daily mean for the 7<sup>th</sup> was 10°F and only seven Januarys have had a lower daily means. Only 20 Januarys of the past 121 have had a low maximum than the 23°F on the 5<sup>th</sup>. On the 12<sup>th</sup> the overnight low was a warm 59°F. Only January 1998 in the past 121 years has had warmer minimum which was 62°F. Only 7 years of the past 121 had a higher average temperature range of 22.6°F and this is the highest average since 1976. The mean temperature was 35.7 °F with a departure of -2.2°F making it the 41<sup>st</sup> coldest mean in 121 years. The average minimum temperature was 26.2°F which was the 42<sup>nd</sup> coldest minimum temperature on record. From January 1<sup>st</sup> to January 7<sup>th</sup>, the temperature stayed below freezing except for the 3<sup>rd</sup> when it was 34°F giving a mean of 17.8°F for the 7-day period. This was the coldest first week to start a new year in the past 121 years for Richmond. The next closest record was January 1918.

The 3.41 inches of precipitation was a departure of +0.37 inches making it the 52<sup>nd</sup> highest January rainfall amount since 1887. The 5.3 inches of snow recorded in January was the 39<sup>th</sup> largest snow in January. January had 4 days with measurable snow and 6 days with measurable snow on the ground. The Airport had 10 daily records for January of which 6 are recognized by Wakefield.

Jan 28 <sup>th</sup>	25°F new record low maximum - the old record 27°F in 1969, 1959, 1919, 1910
Jan 02 <sup>nd</sup>	10°F tied the old record low minimum set in 1928.
Jan 06 <sup>th</sup>	2°F new record low minimum - the old record 7°F in 1912
Jan 07 <sup>th</sup>	-3°F new record low minimum - the old record 10°F in 2014
Jan 12 <sup>th</sup>	59°F new record high minimum- the old record 52°F in 1963
Jan 12 <sup>th</sup>	64.5°F new record high daily mean- the old record 60.0°F in 1963
Jan 05 <sup>th</sup>	18.5°F tied the record low daily mean set in 1981.
Jan 06 <sup>th</sup>	12.5°F new record low daily mean - the old record 13.0°F in 1912
Jan 07 <sup>th</sup>	10.0°F new record low daily mean - the old record 16.0°F in 1914
Jan 04 <sup>th</sup>	2.4 inches new record high daily snowfall- the old record 1.6 inches in 1980