

July 2018

The Glen Allen Springfield Park

July was very humid with above average precipitation and cloudiness with a little below average in temperatures.

The mean temperature of 78.4°F was -1.6°F departure from the ten-year average and the 4th coolest July on record. The coolest mean temperature for July was 77.1°F in 2009. This July had 13 days with temperatures of $\geq 90^\circ\text{F}$; the July average is 17.1 days. The max. temperature was 97.4 °F on the 2nd and the 4th lowest on record for July as was the average maximum for the month. The lowest minimum was 56°F on the 9th and the 2nd lowest on record for July.

The high temperature range for July was 31°F on the 9th and the lowest monthly daily temperature range was 5°F on the 30th. The 5°F temperature range is a new 10-year record for this station; the previous record was 8°F in 2012 & 2016. The average temperature range was 19.3°F which tied for 3rd place in the past 10 years. The lower temperature range was caused by the humid conditions and July being the 2nd cloudiest. The highest dew point of 80.1°F on the 3rd was the second highest in the past 10-years for July.

Springfield Park had 4.71 inches of precipitation and the Richmond International Airport had 5.68 inches and many stations had more than Richmond as rainfall was quite variable for July. Springfield's 4.71 inches monthly precipitation was a departure of +0.39 inches and the 4th wettest July with 12 days of measurable precipitation. The maximum precipitation recorded in a calendar day was 1.15 inches. The 24-hour period maximum was 1.23 inches on the 21st and 22nd and the 4th greatest on record for July.

The highest wind gust was 32 mph on the 22nd the 2nd highest on record for July. The average relative humidity of 76.8 percent was the highest on record; the previous record for July was 75.9% in 2013. The highest barometer was 30.35 inches on the 8th a new high record for July; the previous record was 30.34 in 2013. The average barometer for the month was 30.05 inches and was the 2nd highest for July.

Richmond International Airport

The Richmond International Airport's average mean temperature was 78.1°F which was a departure of -1.2°F and the 57th coolest since 1897. The average maximum was 87.4°F, a -2.3°F departure, and the average minimum was 68.8°F which was a -0.1°F departure. This July had 12 days with temperatures of $\geq 90^\circ\text{F}$; last year it was 22 days. July also had 17 nights the low temperature was 70°F or higher; the average is 14.3 for the 121-year period. The maximum daily temperature range for the month was 29°F on the 10th and the minimum range was 4°F on the 30th. Only July of 1908 had a lower daily range for the month of July. The average temperature range was 18.6°F which was the 27th lowest since 1897. The highest monthly temperature was 96°F on the 2nd. The lowest maximum temperature was only 73°F on July 21st and only 29 Julys since 1897 have had a lower monthly maximum temperature. The lowest minimum temperature was 57°F on the 8th.

The Airport had 5.68 inches of precipitation which was a departure of +1.17 inches and made July the 43 wettest July since 1897. The Airport had 12 days of measurable precipitation.

The Richmond International Airport had 2 daily records set in July.
July 24th temperature range of 7 °F tied the record with 2004, 1969, and 1942.
July 30th temperature range of 4 °F tied the record with 2003.