

# July 2020

## Springfield Park, Glen Allen, Virginia

July was the hottest on record and tied for the second greatest precipitation total with very clear skies. Only July 2011 had clearer skies in the past 12 years.

The July mean temperature here was 83.2°F a +3.2 °F departure. July had 30 days with 90°F or above temperatures and the maximum temperature for July was 101.2°F recorded on July 21<sup>st</sup> which is the highest maximum temperature here since July 21, 2019 when 102.3°F was recorded. The highest minimum temperature here for July was 76.9°F on the 20<sup>th</sup>. On 25 nights the minimum temperature was 70 °F or higher. Springfield Park had 29 consecutive days of ≥90°F from July 3<sup>rd</sup> to the 31<sup>st</sup> which was a new record. The average maximum temperature 94.1°F set a new record for July. The lowest minimum temperature was 65.8°F on the 12<sup>th</sup> which was the 2<sup>nd</sup> highest on record for July; only 2012 had a higher reading. The high temperature range for July was 27°F on the 3<sup>rd</sup> and the lowest monthly daily temperature range was 16.6°F on the 7<sup>th</sup>. The average temperature range for July was 21.8°F which was the 4<sup>th</sup> highest in the past 12 years.

Springfield Park had 2.95 inches of precip. on the 1<sup>st</sup> of July which was 51 percent of the month's total and had only ten days with measurable precipitation. The 2.95 inches was the most rain in a calendar day and also broke the record for the most rain in a 24-hour period and the most in one hour. Springfield Park had 5.79 inches of precip. for July and only July 2013 had more precip. This was the wettest July since 2016 which also recorded 5.79 inches. The 0.38 inches of rain that occurred in five minutes on the 1<sup>st</sup> was the 3<sup>rd</sup> most intense rain on record for July. The Richmond International Airport had 2.99 inches less rain for the month than Springfield Park

This July's highest wind gust of 23 mph on the 22<sup>nd</sup> and 23<sup>rd</sup> is tied for the 2<sup>nd</sup> lowest on record for July. We had 9 thunderstorms and all were weak in terms of wind.

## Richmond International Airport

**July was extremely hot and the Richmond International Airport had a mean monthly average of 82.9°F. July was the hottest on record for Richmond in the past 139 years or since 1880. The previous record was 82.8°F in 2010 at the Airport. July also tied Richmond's hottest month which was August 1900 with a mean temperature of 82.9°F.** Also, a point of interest. The early temperature records of Richmond are rooftop readings which have a warm bias and we are now exceeding these observations.

The Richmond International Airport's average mean temperature was 82.9°F was a departure of 3.6°F. The lowest max temp was 88°F on July 1<sup>st</sup> which was the highest on record for the 123-year period and was 5°F more than the previous record. **There were no real breaks from the heat during this July; it was continuous!** The graph shows very few negative departures. The average maximum temperature was 93.6°F, a 3.9°F departure and is the 3<sup>rd</sup> warmest since 1897. The average minimum was 72.2°F which was a 3.3°F departure and is the 3<sup>rd</sup> warmest since 1897. The highest min. temp. was 78°F and only 6 years were warmer. The Airport had 22 consecutive days of ≥90°F from the 10<sup>th</sup> to the 31<sup>st</sup> and for the month they had 26 days of ≥90°F heat. the Airport record ties the 26 days set in 1993 and 1894 checking records back to 1880. July also had 27 nights the low temperature was 70°F or higher; the average is 14.4 for the 123-year period. The lowest temp recorded during July was 66°F and only 1994 with 67°F was warmer. The lowest daily mean temp. was 77.5°F which is the highest ever recorded for Richmond; the previous record was 77.0°F in 1994.

The Airport had only 2.80 inches as rainfall amounts varied greatly because of thunderstorms. July was the 32<sup>nd</sup> driest in the past 133 years with a departure of -1.71 inches.

### The Richmond International Airport had 5 daily records set in July.

**Record High Maximums** Jul 19<sup>th</sup> 101°F Tied the record set in 1942

**Record High Minimums** Jul 20<sup>th</sup> 78°F Tied the record set in 2013

Jul 28<sup>th</sup> 76°F New record – the old record was 75°F in 2006, 1958, 1949, 1919

**Record High Daily Mean** Jul 19<sup>th</sup> 88.0°F Tied the record set in 1942

Jul 28<sup>th</sup> 88.5°F New Record - The old record was 87.5°F in 1941, 1952.