

# November 2019 Review

## General Summary

After several months featuring warmer than normal temperatures, conditions turned cold during the month of November, particularly during the middle of the month when a strong cold front crossed the area and brought measureable snowfall to portions of the region on the 12<sup>th</sup>. This was followed by highs on the 13<sup>th</sup> that were only in the 30s to lower 40s, leading to some locations setting record cold maximums for the date. Monthly average temperature departures primarily ranged from 3 to 5 degrees colder than the long term means. Daily temperatures were almost exclusively colder than normal for the first 3 weeks of November, with variable but generally near normal temperatures to end the month. Some locations across the north did not record a single day with a high temperature of 70 degrees or warmer, a rather unusual occurrence for November.

Precipitation was generally below normal over central and eastern Virginia, including the lower eastern shore, with near normal values over far southern Virginia and northeast North Carolina. Despite the relatively low precipitation amounts, drought conditions generally improved over the region due to the cooler temperatures. Measureable snowfall was recorded at Richmond on the 12<sup>th</sup>, something that had not occurred in November since 1991.

**The series of pages that follow show various statistics for November 2019.**

# Daily High Temperature Departures at Richmond & Norfolk

## November 2019: Richmond, VA

Observed Maximum Temperature Departure from Normal (°F)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1 59° -7° 66°	2 59° -7° 66°
3 59° -7° 66°	4 63° -2° 65°	5 70° +5° 65°	6 63° -2° 65°	7 67° +2° 65°	8 52° -12° 64°	9 49° -15° 64°
10 65° +1° 64°	11 70° +7° 63°	12 57° -6° 63°	13 38° -24° 62°	14 45° -17° 62°	15 49° -13° 62°	16 47° -14° 61°
17 47° -14° 61°	18 53° -8° 61°	19 51° -9° 60°	20 58° -2° 60°	21 57° -2° 59°	22 61° +2° 59°	23 48° -11° 59°
24 56° -2° 58°	25 57° -1° 58°	26 66° +9° 57°	27 59° +2° 57°	28 56° -1° 57°	29 54° -2° 56°	30 46° -10° 56°

NWS Wakefield - Richmond

## November 2019: Norfolk, VA

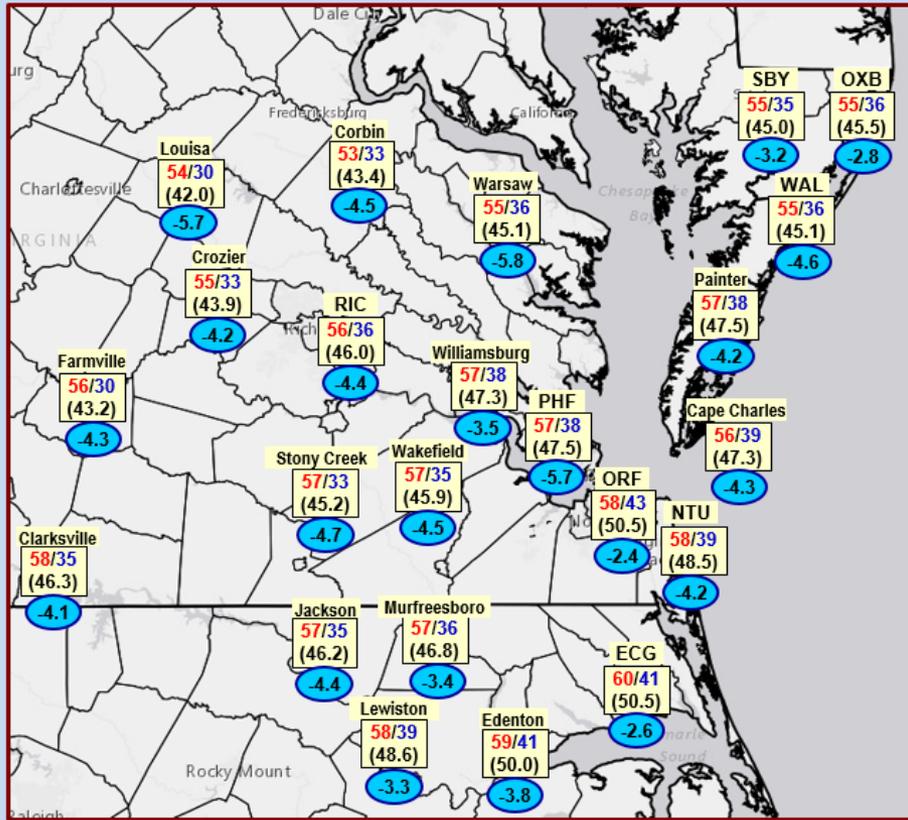
Observed Maximum Temperature Departure from Normal (°F)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1 60° -5° 65°	2 59° -6° 65°
3 60° -5° 65°	4 65° 0° 65°	5 68° +4° 64°	6 60° -4° 64°	7 73° +9° 64°	8 61° -2° 63°	9 50° -13° 63°
10 65° +2° 63°	11 69° +6° 63°	12 59° -3° 62°	13 40° -22° 62°	14 52° -10° 62°	15 52° -9° 61°	16 53° -8° 61°
17 52° -9° 61°	18 49° -11° 60°	19 50° -10° 60°	20 57° -3° 60°	21 54° -6° 60°	22 65° +6° 59°	23 59° 0° 59°
24 62° +4° 58°	25 61° +3° 58°	26 69° +11° 58°	27 65° +7° 58°	28 62° +5° 57°	29 50° -7° 57°	30 49° -8° 57°

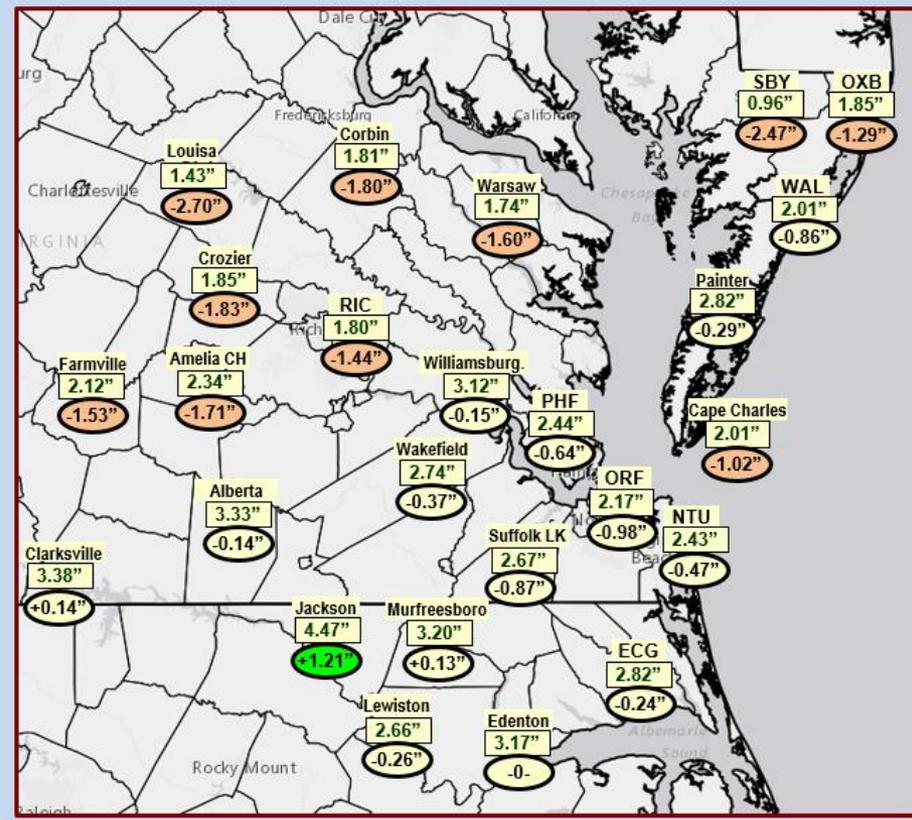
NWS Wakefield - Norfolk

# Regional Temperature & Precipitation Maps

## November 2019 Temperature Data



## November 2019 Precipitation Data



**Departures** from the 30-year normals (1981-2010) are shown for both **average temperature** and **total precipitation**. For temperature, the departures are shaded orange for 1 F or more warmer than average and blue for 1 F or more cooler than average (green shading indicates values within one degree of normal). Similarly, precipitation departures are shaded green for 1.00" or more wetter than average and tan for 1.00" or more drier than normal (near normal values are shaded the same color as the precipitation amount box).

# Tabular Summary of Data for Main Climate Sites:

November 2019 Temperature Summary Data										* also on other dates
Site	Avg Max		Avg Min		Avg Temp		Warmest	Coldest	Significance / Remarks (if Top Ten List, etc.)	
	(°F)		(°F)		(°F)		(°F)	(°F)		
	Actual	Dep	Actual	Dep	Actual	Dep	Date	Date		
Richmond	56.0	-5.4	36.0	-3.4	46.0	-4.4	70 on 11th	20 on 14th	N/A (data period too short)	
Norfolk	58.3	-2.8	42.6	-2.0	50.5	-2.4	73 on 7th	27 on 14th		
Salisbury	55.4	-3.1	34.5	-3.3	45.0	-3.2	69 on 5th	20 on 14th		
Elizabeth City	60.0	-4.0	40.9	-1.3	50.5	-2.6	77 on 1st	26 on 14th		
Wakefield	57.1	-5.7	34.8	-3.2	45.9	-4.5	72 on 5th	19 on 14th		

November 2019 Precipitation & Snowfall Summary Data											
Site	Total Pre		# Pre Days		Greatest		Total Snow		# Snow Days		Significance / Remarks (if Top Ten List, etc.)
	(in.)		(≥0.01")		(in.)		(in.)		(≥0.1")		
	Actual	Dep	Actual	Dep	Actual	Date	Act	Dep	Act	Dep	
Richmond	1.80	-1.44	11	3	0.76	12th	0.9	0.7	1	1	N/A (data period too short)
Norfolk	2.17	-0.98	10	2	0.58	15th	T	0.0	0	0	
Salisbury	0.96	-2.47	6	-2	0.33	12th	0.5	0.3	1	1	
Elizabeth City	2.82	-0.24	12	4	0.69	15th	T	0.0	0	0	
Wakefield	2.74	-0.37	11	3	0.93	12th	0.1	0.0	1	1	

\* **“Dep”= Departure** from the 30-year normals (1981-2010). Temperature departures are shaded orange for 1 F or more warmer than average and blue for 1 F or more cooler than average. Similarly, precipitation departures are shaded green for 0.50” or more wetter than average and tan for 0.50” or more drier than average and snowfall departures are shaded purple for 0.5” or more above average and tan for 0.5” or more below average.

# Daily Records for Long Term Climate Sites:

## Norfolk, VA Records (Period of Record 146 yrs./1874-2019)

*\*tie*

**Record Highs:** none set.

**Record Low Maximums:** 40 (13<sup>th</sup>)

**Record Lows:** none set.

**Record High Minimums:** none set.

**Daily Precipitation:** none set.

**Daily Snowfall:** T (12<sup>th</sup>), T (\*13<sup>th</sup>)

## Richmond, VA Daily Records (Period of Record 123 yrs./1897-2019)

*\*tie*

**Record Highs:** none set.

**Record Low Maximums:** none set.

**Record Lows:** none set.

**Record High Minimums:** none set.

**Daily Precipitation:** none set.

**Daily Snowfall:** none set.