

November 2022 Climate Review

Overview

Following a cool October, November 2022 returned back to a pattern that featured warmer than normal temperatures, particularly during the 1st portion of the month. Precipitation amounts were near normal. Average temperatures were 2 to 4 degrees above the long term means over the region, not quite warm enough to rank any of the long-term sites into a top 10 warmest list. The month began very warm, with several daily record highs and record high minimum temperatures set on the 6th and the 7th. High levels of humidity associated with the remnant system of what had been Hurricane Nicole over Florida led to some locally heavy rain, 2 weak (EF-0) tornadoes, and record high minimum temperatures on the 11th and the 12th. After that, the weather turned sharply cooler with below normal temperatures prevailing until around Thanksgiving. While no record lows were set at our 4 long-term climate sites, sub-freezing temperatures were observed all the way to the coast in SE VA and NE NC on the 21st and many areas north and west of Richmond had morning lows into the teens (the typically cold co-op site in Louisa dropping to 14 degrees). Temperatures moderated as Thanksgiving Day approached, and the month ended on a mild note with a return to above normal temperatures during the last week.

Monthly precipitation totals in November were near normal, with most places receiving from 3 to 4 inches for the month. While this was welcome given the dry antecedent conditions, year to date precipitation deficits are still mostly in the 5 to 10" range across the region. At the end of the month, much of the local area remained classified in D0 drought (abnormally dry), with localized D1 (moderate drought still present over the Virginia eastern shore).

The following table on page 2 shows detailed temperature and precipitation statistics for November 2022 at many locations within the Wakefield CWA. On page 3, daily high temperatures are shown at Richmond and Norfolk, followed by daily records set during the month at our 4 main climate sites on the last page.

Tabular Summary of Data for Selected Climate Sites (November):

November 2022 Temperature Summary Data <small>* also on other dates All Normals are 1991-2020</small>																		
Site	Avg Max		Avg Min		Avg Temp		Daily Highs					Daily Mins					Remarks	
	(°F)		(°F)		(°F)		Warmest (°F)			Coldest (°F)		Warmest (°F)			Coldest (°F)			
	Actual	Dep	Actual	Dep	Actual	Dep	Actual	Date	Dep	Actual	Date	Dep	Actual	Date	Dep	Actual		Date
Richmond	64.5	4.1	41.7	2.9	53.1	3.5	84	7th	7	46	20th	2	65	6th	6	24	21st	0
Norfolk	63.4	1.3	48.2	3.8	55.8	2.5	82	6th	3	48	20th	3	67	11th	6	31	*21st	1
Salisbury	63.1	4.5	39.5	1.6	51.3	3.1	82	7th	7	45	20th	2	63	12th	5	19	21st	-3
Wallops Island	62.9	4.1	43.1	2.4	53.0	3.3	81	7th	7	47	21st	4	64	*11th	5	22	21st	-4
Elizabeth City	66.2	3.1	46.8	4.4	56.5	3.8	83	6th	4	49	20th	1	68	11th	7	28	*21st	1
Ashland, VA	63.3	4.3	40.6	3.2	52.0	3.8	81	7th	6	44	*20th	2	65	*7th	8	19	21st	-3
Corbin, VA	61.1	3.0	38.4	1.7	49.7	2.3	81	5th	5	41	20th	-1	65	6th	8	18	21st	-4
Louisa, VA	61.3	3.9	35.0	0.9	48.2	2.4	81	7th	5	38	15th	-4	59	*7th	4	14	21st	-4
Painter, VA	62.9	2.7	44.9	3.5	53.9	3.1	78	*6th	3	47	21st	3	66	12th	5	24	21st	-2
Wakefield, VA	65.4	3.4	39.2	1.6	52.3	2.5	84	7th	6	48	20th	2	62	*12th	4	22	21st	0
Williamsburg, VA	64.2	3.1	42.6	1.7	53.4	2.4	82	7th	5	47	20th	1	64	12th	5	25	21st	-1
Edenton, NC	64.7	1.8	47.5	3.5	56.1	2.7	78	6th	1	47	18th	-1	66	11th	5	27	21st	-1

November 2022 Precipitation & Snowfall Summary Data <small>* also on other dates All Normals are 1991-2020</small>																		
Site	Total Pre		# Pre Days		# Pre Days		Greatest		Total Snow		# Snow Days		# Snow Days		Greatest		Remarks	
	(in.)		(≥0.01")		(≥0.10")		(in.)		(in.)		(≥0.1")		(≥1.0")		(in.)			
	Actual	Dep	Actual	Dep	Actual	Dep	Act	Date	Act	Dep	Act	Dep	Act	Dep	Daily	Date		Storm
Richmond	3.71	0.65	5	-3	5	0	1.30	11th	0.0									
Norfolk	3.11	0.01	9	0	7	2	1.04	25th	0.0									
Salisbury	3.36	0.20	8	-1	7	2	0.83	15th	0.0									
Wallops Island	2.93	0.05	8	-1	7	2	0.60	15th	0.0									
Elizabeth City	3.55	0.58	10	1	8	3	0.75	30th	0.0									
Ashland, VA	3.32	-0.05	7	0	6	1	1.01	*27th	0.0									
Corbin, VA	3.04	-0.28	6	-1	5	0	1.51	28th	0.0	-0.1								
Louisa, VA	2.17	-1.42	7	-2	6	0	0.74	16th	0.0	-0.1								
Painter, VA	2.78	-0.27	8	-1	7	2	0.66	11th	0.0									
Wakefield, VA	3.81	0.64	7	-1	5	0	1.01	11th	0.0									
Williamsburg, VA	4.05	0.92	7	-2	6	0	1.25	11th	0.0									
Edenton, NC	2.52	-0.72	9	2	7	2	0.73	25th	0.0									

* **“Dep”= Departure** from the 30-year normals (1991-2020). Temperature departures are shaded orange for 1 F or more warmer than average (dark red for 4 F or greater anomalies) and blue for 1 F or more cooler than average (dark blue for 4 F or more below normal). Similarly, precipitation departures are shaded green for 0.50” or more wetter than average (dark green for 2.00” or more) and tan for 0.50” or more drier than average (dark brown for 2.00” or more drier). Snowfall departures are shaded purple for 1” or more above average and tan for 1” or more below average.

Daily High Temperature Departures at Richmond & Norfolk, VA

November 2022: Richmond, VA

Observed Maximum Temperature Departure from Normal (°F)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 78° +13° 65°	2 70° +5° 65°	3 73° +8° 65°	4 78° +14° 64°	5 80° +16° 64°
6 82° +18° 64°	7 84° +21° 63°	8 65° +2° 63°	9 64° +1° 63°	10 72° +10° 62°	11 76° +14° 62°	12 78° +16° 62°
13 64° +3° 61°	14 50° -11° 61°	15 48° -12° 60°	16 57° -3° 60°	17 49° -11° 60°	18 50° -10° 60°	19 52° -7° 59°
20 46° -13° 59°	21 53° -6° 59°	22 60° +2° 58°	23 65° +7° 58°	24 64° +6° 58°	25 67° +10° 57°	26 62° +5° 57°
27 65° +8° 57°	28 63° +7° 56°	29 57° +1° 56°	30 62° +6° 56°			

NWS Wakefield - Richmond

November 2022: Norfolk, VA

Observed Maximum Temperature Departure from Normal (°F)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 75° +8° 67°	2 66° 0° 66°	3 68° +2° 66°	4 70° +4° 66°	5 80° +15° 65°
6 82° +17° 65°	7 79° +14° 65°	8 66° +2° 64°	9 63° -1° 64°	10 70° +6° 64°	11 74° +11° 63°	12 77° +14° 63°
13 67° +4° 63°	14 50° -12° 62°	15 63° +1° 62°	16 56° -6° 62°	17 50° -12° 62°	18 50° -11° 61°	19 50° -11° 61°
20 48° -13° 61°	21 52° -8° 60°	22 56° -4° 60°	23 58° -2° 60°	24 61° +2° 59°	25 59° 0° 59°	26 57° -2° 59°
27 70° +11° 59°	28 66° +8° 58°	29 56° -2° 58°	30 62° +4° 58°			

NWS Wakefield - Norfolk

Daily Records for Long Term Climate Sites (November):

Norfolk, VA Records (Period of Record 149 yrs./1874-2022)

**tie*

Record Highs: none set.

Record Low Maximums: none set.

Record Lows: none set.

Record High Minimums: 65 (12th).

Daily Precipitation: 1.04" (25th).

Richmond, VA Daily Records (Period of Record 126 yrs./1897-2022)

**tie*

Record Highs: 82 (6th), 84 (7th).

Record Low Maximums: none set.

Record Lows: none set.

Record High Minimums: 65 (6th), *62 (11th), 64 (12th).

Daily Precipitation: none set.

Salisbury, MD Daily Records (Period of Record 116 yrs./1907-2022)

**tie*

Record Highs: 82 (7th).

Record Low Maximums: none set.

Record Lows: none set.

Record High Minimums: 63 (12th).

Daily Precipitation: none set.

Elizabeth City, NC Daily Records (Period of Record 89 yrs./1934-2022)

**tie*

Record Highs: *83 (6th), *81 (7th).

Record Low Maximums: none set.

Record Lows: none set.

Record High Minimums: 68 (11th), 65 (12th).

Daily Precipitation: none set.