

June 2025 Monthly Weather Summary

Temperature Overview

While the first 2 days of June saw rather cool temperatures, that did not set the stage for the remainder of June. There was very little in the way of “cool-downs” in June, and all of the long-term climate sites ranked within the top-10 warmest Junes on record with the rankings as follows: Richmond (5th), Salisbury (9th), Elizabeth City (10th), Norfolk (7th). With a somewhat shorter period of record, Wallops Island was 2nd warmest, Ashland 3rd warmest, Louisa 4th warmest, Williamsburg 2nd warmest, and Edenton 9th warmest. The most notable stretch in terms of temperatures spanned between June 22-26th, with an average temperature departure from normal of up 10°+. A strong upper-level ridge parked itself across the Mid-Atlantic, promoting mostly clear skies and minimal rain chances. In conjunction with dew points in the mid to upper 70s, this led to 4 days in a row with widespread heat indices at or above 105° ; Wallops Island recorded 3 consecutive days with a peak hourly heat index of 110°+ from the 23rd through the 25th, a rarity in any month, but exceedingly rare for June. Salisbury tied the daily record high temperature of 100 degrees on the 24th and broke the daily record high of on the 25th when it reached 100 degrees again- this is the only occurrence with multiple days reaching at least 100° at Salisbury during the month of June (since records began in 1906). Numerous daily record high minimum records were set at all long-term climate sites, with Richmond and Norfolk managing to each tie their all-time monthly high minimum records of 80 degrees (June 25th) and 78 degrees (June 24th), respectively. A backdoor cold front dropped down across the area on June 27th, which finally broke the heat wave.

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Precipitation Overview

There was a quite a range of monthly precipitation measurements across the area in June. NE NC climate sites measured almost 8" of rainfall and were well above the average monthly precipitation values. Elizabeth City, NC recorded its 9th wettest June on record. Almost half of their rainfall fell on the 16th, when 3.22" was measured as a warm front lifted through the area. Meanwhile, Salisbury, MD saw a 2.22" rainfall deficit (average rainfall is around 4" for June), only measuring 1.81" of rain, with 1.31" of that falling on the 6th as a weak surface low just off the coast of the Eastern Shore pumped in high atmospheric moisture content into the area for a prolonged period of time. Just to the south, Wallops received a daily record 3.94" that same day, which propelled them into a slightly above average June (+0.82"). Richmond, VA (-1.01") was slightly drier than normal, while Norfolk, VA (-0.10") was near the climatological average rainfall.

The following table on page 3 shows detailed temperature and precipitation statistics for June 2025 at many locations within the Wakefield CWA. On page 4, daily average temperature departures are shown at Richmond and Norfolk for June, followed by June precipitation maps (page 5), with daily records set during the month at our 4 main long-term sites on the last page.

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

June 2025 Temperature Summary Data																			* also on other dates			All Normals are 1991-2020		
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	Dep						
Richmond	88.0	2.4	68.1	3.6	78.1	3.1	99	*25th	2	74	1st	3	78	24th	4	46	1st	-7	5th warmest					
Norfolk	86.5	1.3	71.1	3.0	78.8	2.1	99	26th	3	72	2nd	2	80	25th	4	51	1st	-5	7th warmest					
Salisbury	85.5	2.6	65.7	3.1	75.6	2.9	100	*25th	6	70	1st	2	76	*24th	2	45	1st	-1	9th warmest					
Wallops Island	84.2	2.9	69.3	4.2	76.8	3.6	98	*25th	5	70	1st	2	79	*25th	4	48	1st	-4	**2nd warmest**					
Elizabeth City	87.7	2.3	69.6	2.5	78.6	2.4	97	*25th	2	75	2nd	2	77	*30th	1	51	3rd	-3	10th warmest					
Ashland, VA	85.8	2.9	66.7	3.5	76.2	3.1	96	25th	3	71	1st	1	76	25th	4	49	1st	-2	**3rd warmest**					
Louisa, VA	87.4	4.2	64.0	3.3	75.7	3.8	98	*24th	4	70	16th	-1	72	25th	1	43	*2nd	-3	**4th warmest**					
Wakefield, VA	88.0	2.2	67.5	4.2	77.8	3.3	98	*25th	2	75	1st	4	76	30th	3	45	1st	-4	N/A					
Williamsburg, VA	87.4	3.0	68.9	3.6	78.2	3.3	99	*25th	4	73	1st	1	77	28th	3	48	1st	-4	**2nd warmest**					
Edenton, NC	86.8	0.7	71.6	3.7	79.2	2.2	94	23rd	0	76	2nd	2	80	25th	5	53	3rd	-1	**9th warmest**					

June 2025 Precipitation & Snowfall Summary Data																			* also on other dates			All Normals are 1991-2020		
Site	Total Pre		# Pre Days		# Pre Days		Greatest		Total Snow		# Snow Days		# Snow Days		Greatest		Greatest		Remarks					
	(in.)		(≥0.01")		(≥0.10")		(in.)		(in.)		(≥0.1")		(≥1.0")		(in.)		(in.)							
	Actual	Dep	Actual	Dep	Actual	Dep	Act	Date	Act	Dep	Act	Dep	Act	Dep	Daily	Date	Storm	Date						
Richmond	3.63	-1.01	12	1	7	0	1.37	29th																
Norfolk	4.33	-0.10	11	1	9	3	1.34	14th																
Salisbury	1.81	-2.22	5	-6	2	-5	1.31	6th																
Wallops Island	4.21	0.82	5	-5	5	-1	3.49	6th																
Elizabeth City	7.72	3.01	12	2	7	0	3.22	16th											9th wettest					
Ashland, VA	2.89	-1.69	8	-1	7	0	0.90	16th																
Louisa, VA	3.26	-1.07	11	0	7	-1	0.77	6th																
Wakefield, VA	4.78	0.01	10	-1	4	-3	2.60	8th																
Williamsburg, VA	2.24	-1.92	9	-2	5	-2	0.89	8th																
Edenton, NC	7.71	2.79	8	0	6	-1	3.36	16th																

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	(in.)		(≥0.01")		(≥0.10")		(in.)		(in.)		(≥0.1")		(≥1.0")		(in.)		(in.)								
	Actual	Dep	Actual	Dep	Actual	Dep	Act	Date	Act	Dep	Act	Dep	Act	Dep	Daily	Date	Storm	Date							
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Edenton, NC	7.71	2.79	8	0	6	-1	3.36	16th																	

* **"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. ****Rankings in Remark section are included for Co-op sites where a complete period of record is of sufficient duration.**
N/A in Remarks section indicates sites with a shorter period of record, leading to rankings being of less significance

Daily Average Temperature Departures at Richmond & Norfolk, VA (June)

June 2025: Richmond, VA

Observed Average Temperature Departure from Normal (°F)

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	60.0° -10.9° 70.9°	63.5° -7.7° 71.2°	67.0° -4.5° 71.5°	72.0° +0.2° 71.8°	73.5° +1.4° 72.1°	75.5° +3.1° 72.4°	78.5° +5.8° 72.7°
8	78.5° +5.5° 73°	76.0° +2.7° 73.3°	77.0° +3.4° 73.6°	76.0° +2.1° 73.9°	78.5° +4.3° 74.2°	80.0° +5.5° 74.5°	80.5° +5.7° 74.8°
15	76.5° +1.4° 75.1°	72.0° -3.4° 75.4°	79.0° +3.4° 75.6°	83.5° +7.6° 75.9°	83.0° +6.8° 76.2°	76.0° -0.4° 76.4°	78.5° +1.8° 76.7°
22	82.5° +5.6° 76.9°	85.5° +8.3° 77.2°	88.5° +11.1° 77.4°	88.0° +10.4° 77.6°	86.5° +8.7° 77.8°	76.0° -2.0° 78°	83.0° +4.8° 78.2°
29	84.0° +5.7° 78.3°	82.5° +4.0° 78.5°					

NWS Wakefield - Richmond

June 2025: Norfolk, VA

Observed Average Temperature Departure from Normal (°F)

1	Sun	2	Mon	3	Tue	4	Wed	5	Thu	6	Fri	7	Sat
63.0° -9.4° 72.4°	65.5° -7.2° 72.7°	68.0° -5.0° 73°	72.0° -1.3° 73.3°	73.0° -0.6° 73.6°	75.0° +1.0° 74°	80.5° +6.2° 74.3°							
8	78.0° +3.4° 74.6°	75.0° +0.1° 74.9°	79.5° +4.3° 75.2°	77.0° +1.5° 75.5°	79.5° +3.7° 75.8°	81.0° +4.9° 76.1°	81.0° +4.6° 76.4°						
15	76.5° -0.2° 76.7°	73.5° -3.5° 77°	76.5° -0.8° 77.3°	85.5° +8.0° 77.5°	82.0° +4.2° 77.8°	77.5° -0.6° 78.1°	79.0° +0.7° 78.3°						
22	82.0° +3.4° 78.6°	85.5° +6.7° 78.8°	86.5° +7.4° 79.1°	87.5° +8.2° 79.3°	88.0° +8.5° 79.5°	81.0° +1.3° 79.7°	84.0° +4.1° 79.9°						
29	84.5° +4.4° 80.1°	86.5° +6.3° 80.2°											

NWS Wakefield - Norfolk

Figure 2: Daily Average Temperature Departures at RIC and ORF

Regional Precipitation Maps: June 2025

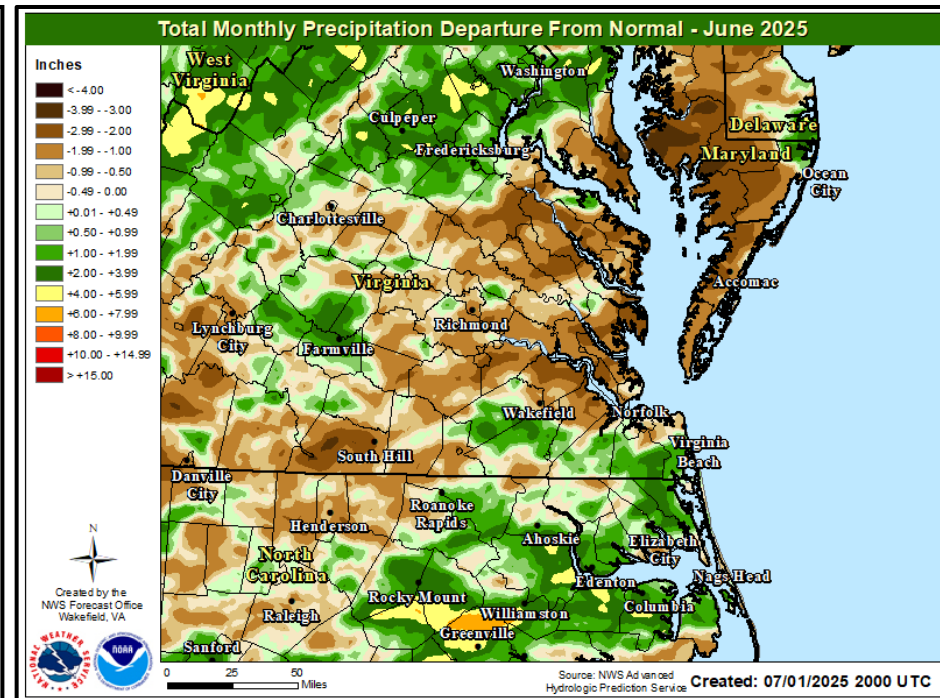
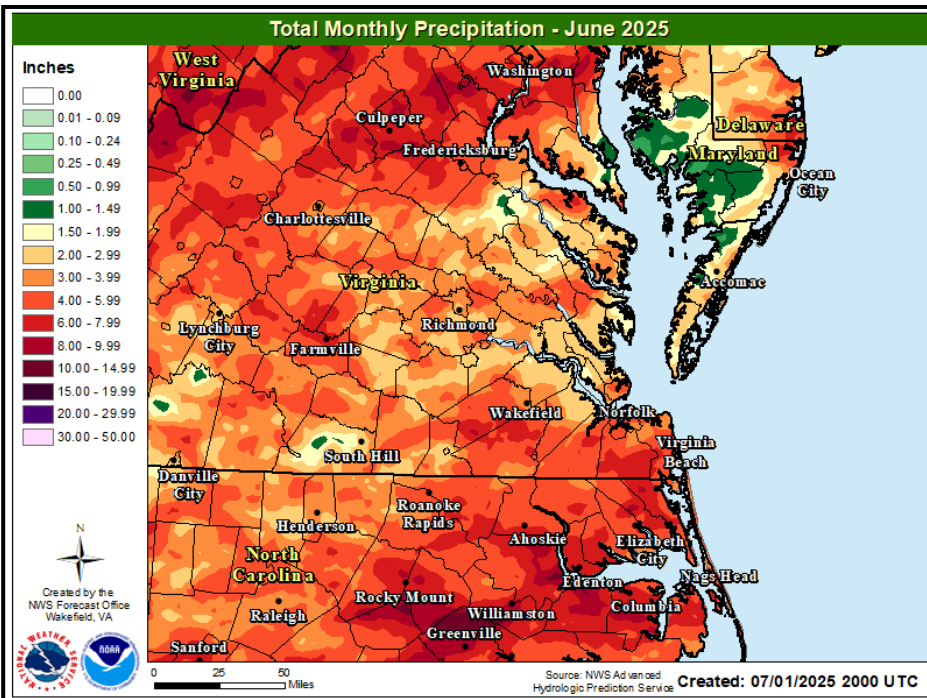


Figure 3: *Total Precipitation* for the month is shown in the map on the left. *Departure* from the 30-year normals (1991-2020) is shown on the map on the right.

Daily Records for Long Term Sites (June):

Norfolk, VA Records (Period of Record 152 yrs./1874-2025) **tie **all time monthly tie*

Record Highs: none set.

Record Low Maximums: none set.

Record Lows: none set.

Record High Minimums: *78° (18th), *79° (24th), **80° (25th).

Daily Precipitation: none set.

Richmond, VA Records (Period of Record 129 yrs./1897-2025) **tie **all time monthly tie*

Record Highs: none set.

Record Low Maximums: none set.

Record Lows: none set.

Record High Minimums: **78° (24th), 77° (25th).

Daily Precipitation: none set.

Salisbury, MD Records (Period of Record 119 yrs./1907-2025) **tie*

Record Highs: *100° (24th), 100° (25th).

Record Low Maximums: none set.

Record Lows: none set.

Record High Minimums: 76° (23rd), 76° (24th).

Daily Precipitation: 1.31" (6th).

Elizabeth City, NC Records (Period of Record 92 yrs./1934-2025) **tie*

Record Highs: none set.

Record Low Maximums: none set.

Record Lows: none set.

Record High Minimums: *77° (18th), 77° (24th).

Daily Precipitation: 3.22" (16th).