

Summer (June-July-August) 2022 Review

Overview

Meteorological summer (June/July/Aug) 2022 featured near normal temperatures across southern Virginia and northeast North Carolina, and above normal temperatures to the north. In general there were little to no extremes of heat this summer with no 100-degree readings observed at any of the main climate sites and co-op stations listed in the table on the following page. Even daily record highs and lows were fairly limited. Humidity levels (with respect to average dew pts) were a bit lower/drier than average in June, followed by higher than normal levels for most of July into early August making this period quite uncomfortable with numerous days seeing afternoon heat indices in the 100 to 105 degree range, and a few reaching to around 110F. A drier, more pleasant stretch occurred in mid-August along with below normal temperatures, with a fairly hot end to the month of August. None of the long-term climate sites of Richmond, Norfolk, Salisbury, or Elizabeth City recorded a top 10 warm or cold ranking for summer average temperature.

Monthly precipitation totals were mostly below/drier than normal across the region, though as is typical with summertime convection a few areas in the northern piedmont actually received above normal amounts. The Virginia eastern shore into Hampton Roads was particularly dry with some areas barely recording much more than 50% of the long-term average for summer. None of the long-term climate sites of Richmond, Norfolk, Salisbury, or Elizabeth City recorded a top 10 wettest or driest for summer precipitation.

The table on the following page shows detailed temperature and precipitation statistics for Summer 2022.

Precipitation maps with respect to normal are shown for June, July, August on page 3.

Daily records are depicted for the 4 long-term climate sites on page 4.

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

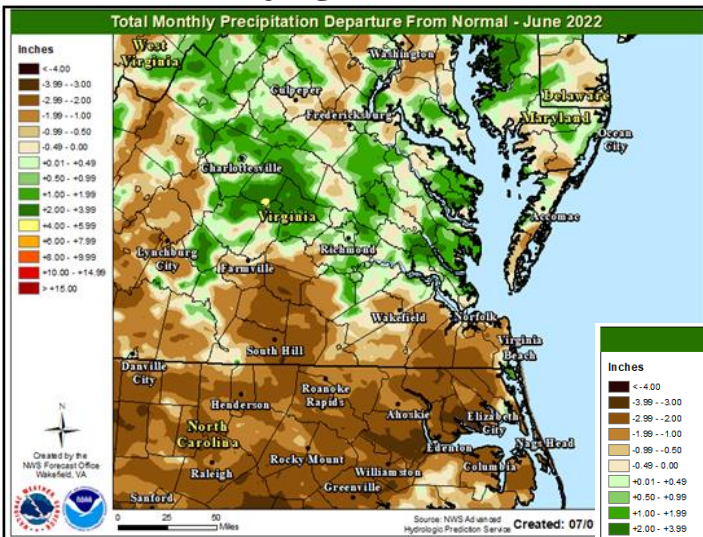
Summer (Jun-Jul-Aug) 2022 Temperature Summary Data														* also on other dates		All Normals are 1991-2020				
Site	Avg Max		Avg Min		Avg Temp		Daily Highs					Daily Mins					# Days 90F+			
	(°F)		(°F)		(°F)		Warmest (°F)			Coldest (°F)		Warmest (°F)			Coldest (°F)		Summer	2022		
	Actual	Dep	Actual	Dep	Actual	Dep	Actual	Date	Dep	Actual	Date	Dep	Actual	Date	Dep	Actual	Date	Dep	(through 9/8)	
Richmond	88.6	1.1	67.9	0.8	78.2	0.9	98	*7/24	-2	71	8/15	0	75	*8/9	-2	55	6/6	2	42	53
Norfolk	87.0	-0.2	70.7	-0.1	78.9	-0.1	97	*7/24	-2	71	7/10	1	77	*8/9	-3	61	*6/21	5	34	38
Salisbury	87.3	2.0	66.9	1.2	77.1	1.6	96	8/4	-2	75	*6/23	7	78	8/9	0	50	*6/20	4	35	38
Wallops Island	85.7	1.8	68.8	0.7	77.3	1.3	96	6/17	0	73	6/5	5	77	7/28	-2	52	6/6	0	26	28
Elizabeth City	87.4	0.6	69.2	-0.2	78.3	0.2	96	6/17	-1	74	7/10	1	78	7/25	-1	53	6/20	-1	36	39
Ashland, VA	86.2	1.3	66.9	1.2	76.5	1.2	98	7/24	2	71	6/23	1	76	7/21	1	53	*6/20	2	28	31
Corbin, VA	85.6	0.2	65.1	0.3	75.4	0.3	96	7/24	-2	68	8/15	-1	74	*8/9	-1	49	6/20	1	27	31
Louisa, VA	85.3	0.2	63.3	0.1	74.3	0.2	94	*7/25	-3	71	*8/15	1	73	7/21	-1	45	6/19	-1	20	24
Painter, VA	86.1	0.6	68.4	1.3	77.3	1.0	95	*8/4	-2	71	*8/15	1	79	*8/10	-1	51	6/6	-1	26	28
Wakefield, VA	88.9	1.2	66.7	0.8	77.8	1.0	99	6/17	0	70	7/10	-1	75	*8/9	-1	50	6/20	1	51	63
Williamsburg, VA	87.5	1.0	68.5	0.4	78.0	0.7	97	6/17	-1	71	8/15	-1	77	8/9	-1	55	6/6	3	40	48
Edenton, NC	86.8	-0.5	70.5	0.3	78.6	-0.1	96	*8/10	-1	78	*8/15	5	79	*8/10	-1	56	6/20	2	31	34

Summer (Jun-Jul-Aug) 2022 Precipitation 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		
	(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	Storm
Richmond	12.13	-1.78	29	-2	17	-4	2.03	6/22								
Norfolk	8.66	-7.73	26	-5	18	-2	1.44	7/9								
Salisbury	13.74	-0.29	27	-4	20	0	2.58	6/14								
Wallops Island	8.07	-4.01	28	-2	16	-2	1.78	6/12								
Elizabeth City	12.86	-2.82	31	-3	20	-3	2.19	8/21								
Ashland, VA	11.78	-1.00	28	1	17	-3	1.67	7/25								
Corbin, VA	14.06	2.64	21	-5	14	-5	2.75	6/23								
Louisa, VA	18.02	5.83	38	7	29	8	2.58	6/16								
Painter, VA	7.61	-6.30	21	-9	13	-8	1.97	6/28								
Wakefield, VA	12.04	-3.71	32	0	20	-2	2.67	7/29								
Williamsburg, VA	12.93	-2.83	29	-5	20	-3	2.09	7/29								
Edenton, NC	15.98	-1.14	32	5	24	1	1.76	8/11								

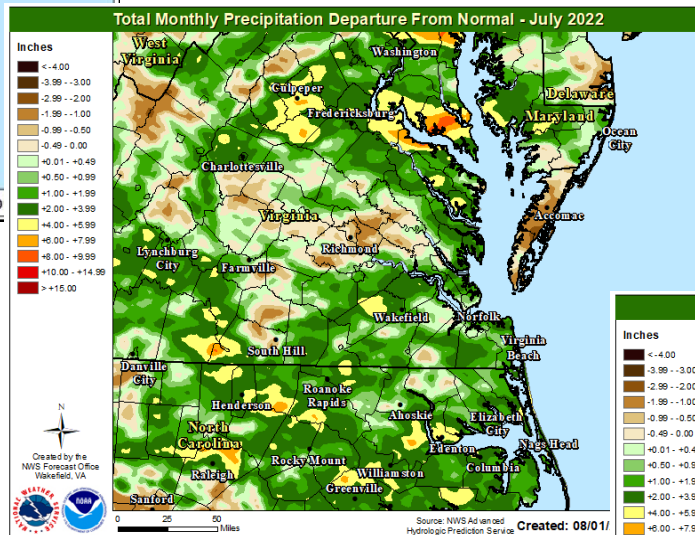
* "Dep"= **Departure** from the 30-year normals (1991-2020). Temperature departures are shaded orange for 1 F or more warmer than average (dark red for 4 F or greater anomalies) and blue for 1 F or more cooler than average (dark blue for 4 F or more below normal). Similarly, precipitation departures are shaded green for 1.00" or more wetter than average (dark green for 4.00" or more) and tan for 1.00" or more drier than average (dark brown for 4.00" or more drier).

Regional Precipitation Maps

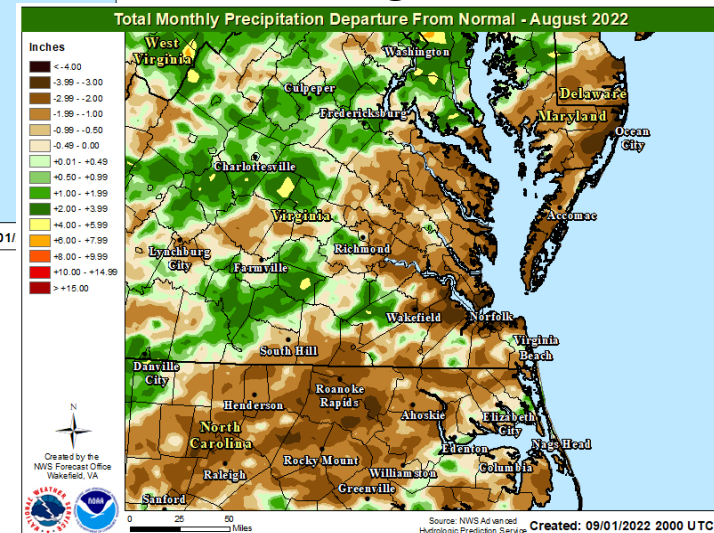
June



July



August



Departures from the 30-year normals (1991-2020) are shown for each month.

Daily Records for Long Term Climate Sites (Summer):

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

**tie*

Record Highs: *97 (6/17).

Record Low Maximums: none set.

Record Lows: none set.

Record High Minimums: none set.

Daily Precipitation: none set.

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

**tie*

Record Highs: none set.

Record Low Maximums: *73 (7/10)

Record Lows: none set.

Record High Minimums: none set .

Daily Precipitation: none set.

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

**tie*

Record Highs: none set.

Record Low Maximums: none set.

Record Lows: none set.

Record High Minimums: *78 (8/9).

Daily Precipitation: 2.58" (6/14).

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

**tie*

Record Highs: *95 (8/10) *96 (6/17).

Record Low Maximums: 74 (7/10).

Record Lows: 53 (6/20).

Record High Minimums: none set.

Daily Precipitation: none set.