

	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	
July 2022	2nd PERIOD		WIND			REL. HUMIDITY		BAROMETRIC PRESSURE				<div><div></div><div>℞</div><div></div></div> <div>DEW</div> <div>FROST</div>							
	START	END	RUN	MAX.	TIME	MAX.	MIN.	MAX.	MIN.	AVE.	CHANGE								
Jul-01			98.0	17	15:27	94	52	30.16	30.01	30.09	-0.10						P		
Jul-02			109.8	16	0:11	93	57	30.02	29.93	29.98	-0.11						3		
Jul-03			71.4	17	12:06	93	52	30.13	29.96	30.05	0.07						3		
Jul-04			41.8	12	12:17	94	44	30.21	30.11	30.16	0.11						4		
Jul-05	1730	1735	96.7	18	12:44	87	65	30.15	29.90	30.03	-0.14						1		
Jul-06			51.1	13	21:39	95	60	29.93	29.85	29.89	-0.13						3		
Jul-07			60.3	14	16:12	97	68	30.00	29.88	29.94	0.05						3		
Jul-08			43.1	10	16:10	97	61	30.06	29.95	30.01	0.07						5		
Jul-09	0600	0720	63.0	13	12:48	97	84	30.05	29.90	29.98	-0.03					1	P		
Jul-10	0810	0825	50.6	12	12:03	99	73	30.08	30.00	30.04	0.06						P		
Jul-11			38.5	13	23:51	99	41	30.03	29.90	29.97	-0.07						5		
Jul-12			95.5	18	21:08	96	54	29.92	29.79	29.86	-0.11						4		
Jul-13			31.2	36	18:10	97	48	29.96	29.87	29.92	0.06					1	3		
Jul-14			40.5	11	11:42	100	41	30.09	29.94	30.02	0.10				2		P		
Jul-15			51.6	15	18:08	94	58	30.14	30.07	30.11	0.09						2		
Jul-16			31.8	13	13:40	98	61	30.12	30.01	30.07	-0.04					1	5		
Jul-17			64.6	17	15:23	98	59	30.07	29.97	30.02	-0.05						P		
Jul-18	2320	2340	128.9	21	13:58	90	54	30.01	29.82	29.92	-0.11						1		
Jul-19			50.2	11	2:13	93	54	29.93	29.83	29.88	-0.04						N		
Jul-20			53.9	16	14:34	96	42	29.89	29.74	29.82	-0.07						4		
Jul-21			105.2	19	7:56	89	53	29.86	29.72	29.79	-0.02						N		
Jul-22			61.1	16	16:10	97	34	30.02	29.85	29.94	0.15						5		
Jul-23			38.8	29	21:46	95	41	30.14	30.00	30.07	0.13					1	4		
Jul-24			67.2	17	21:28	98	44	30.10	29.98	30.04	-0.03						P		
Jul-25			126.1	29	17:13	97	58	30.02	29.89	29.96	-0.09					1	N		
Jul-26	1450	1620	43.6	21	14:49	99	70	30.07	29.98	30.03	0.07					1	p		
Jul-27	0500	0525	59.8	14	16:12	99	66	30.02	29.91	29.97	-0.06						p		
Jul-28			65.0	14	16:18	95	58	29.96	29.89	29.93	-0.04						3		
Jul-29	1355	1650	26.0	24	14:06	98	60	30.00	29.88	29.94	0.01					1	4		
Jul-30			46.4	13	12:30	99	45	30.20	29.99	30.10	0.16						5		
Jul-31	1150	1630	17.5	16	11:43	98	63	30.21	30.05	30.13	0.04						3		
TOTAL	Column 23		1929.2	525		2971	1720	931.55	927.57	929.56	TOTAL	0	0	0	1	7	20	0	
NUMBER	Mar. Wind Run		31	31	31	31	31	31	31	31	Normal	0.0	0.0	0.0	1.5	7.0	18.6	0.0	
AVE.	Total	1929.2	62.2	16.9	14:39	95.84	55.48	30.05	29.92	29.99	Depart.	0.0	0.0	0.0	-0.5	0.0	1.4	0.0	
NORMALS	Miles	1429.3	64.5	18.5		92.8	48.6	30.04	29.92	29.98	Rating ▶	0	0	0	2	7	70	0	
Departures	Miles	499.9	-2.3	-1.6		3.1	6.9	0.01	0.00	0.00	Intensity	GLAZE	SLEET	SNOW	FOG	℞	Dew	Frost	
MAXIMUM		Dates	128.9	36	SSW	100	84	30.21	30.11	30.16	0.16								
DATES		1	Jul-18	Jul-13	18:10	Jul-14	Jul-09	Jul-04	Jul-04	Jul-04	Jul-30								
		2																	
		3																	
Min. Temps. >= 70°F		4			Ave. Max.														
2022 19		Dates	17.5	10	27.6	87	34	29.86	29.72	29.79	-0.14								
Ave. 19.2		1	Jul-31	Jul-08	Dep.	Jul-05	Jul-22	Jul-21	Jul-21	Jul-21	Jul-05								
Departure -0.2		2			8.4														
Days Min. <=32 °F		0	≤ 75	≤ 70	≤ 65	≤ 60	≤ 55	≤ 50	≤ 45	≤ 40	≤ 35	N- None No Dew Obs.							
Days Min >=70°F		19	29	12	3	1	0	0	0	0	0	P- Precap. prevent obs.							

PAGE #3		West Henrico Co. - Glen Allen Weather Center 37.65537° N. 77.56929° W. - Koontz	
39		40	
July 2022		REMARKS FOR THE MONTH July - 2022	
Jul-01	EARLY CLOUDS CLEARED AT 0700 & WAS MOSTLY CLEAR TO 1400. PM AVERAGED PC WITH MAX. DEW POINT OF 75 degrees F AT 1425		
Jul-02	FIRST SUN AROUND 0900 & THEN PC TO 1515 THEN IT BECAME CLOUDY TO 1730 AND THEN BACK TO PC FOLLOWED BY CLOUDY AFTER 1830		
Jul-03	A COLD FRONT PASSED AROUND 0900 GIVING A BREEZE & DECREASE IN DEW POINT		
Jul-04	CLEAR UNTIL 1300 THE CUMULUS CAME IN AND PC TO 1520 FOLLOWED BY MOSTLY CLOUDY. PM EST. TO BE 70% CLOUDY		
Jul-05	TODAY WAS CLOUDY AND HUMID WITH 2 5 MINUTE SPRINKLES		
Jul-06	A CLOUDY AND VERY HUMID DAY WITH A MAX. DEW POINT OF 76 degrees F AT 2045 AFTER A LIGHT SPRINKLE		
Jul-07	A CLOUDY AND VERY HUMID DAY WITH A MAX. DEW POINT OF 77 degrees F AT 1428		
Jul-08	A CLOUDY AND VERY HUMID DAY WITH A MAX. DEW POINT OF 77 degrees F AT 1341		
Jul-09	TS RATED 1-1-2 3RD PD. OF PRECIP. 1410-1855, 4TH PD. 2015-2400 -THUNDER HEARD AT 0553, 0557, 0600-COLD FRONT PASSED AT 0800		
Jul-10	A COOL CLOUDY DAY - A NEW 13 YEAR REC. LOW MAX. TEMP. TODAY-DRIZZLE 1145-1210 AND 1515-1535		
Jul-11	A VERY COOL AM STARTING WITH A LOW OF 57.4 degrees F AT 0608-A NEW 13 YEAR REC. MIN. TEMP. FOR DATE		
Jul-12	MUCH HOTTER WITH SOME SCATTERED PM CUMULUS-MAX. DEW POINT 76 degrees F AT 1645		
Jul-13	TS RATED 1-4-3 - 6 THUNDERS HEARD 1759, 1803, 1820, 1823, 1824, 1831-VERY HEAVY RAIN AT LEAST 0.40 INCHES IN 5 MINS.		
Jul-14	CUMULUS CAME IN AT 1300 AND WAS PC BY 1345 & CLOUDY AFTER 1700-PM WAS EST. 50-60% CLOUDY		
Jul-15	CLOUDY OR DIMMED SUNLIGHT BY CLOUDS MOST OF DAY - MAX. DEW POINT 74 degrees F AT 1255		
Jul-16	TS RATED 1-1-1 - MINOR TS PASSED AT OUR NORTH AND SEVERE TS PASSED TO WEST OF SHORT PUMP		
Jul-17	MOSTLY CLEAR TO 0830 THEN SKY AVERAGED PC TO NOON-PM WAS MOSTLY CLOUDY AND HUMID-MAX. DEW POINT 78 degrees F AT 1314		
Jul-18	IT WAS MOSTLY CLEAR TO 1015 & PC BY 1100 & PM WAS EST. TO BE 50-60% CLOUDY-MAX. DEW POINT WAS 77 degrees F AT 1257		
Jul-19	TODAY WAS MOSTLY CLOUDY & NOT QUITE AS HOT BUT STILL HUMID WITH MAX. DEW POINT OF 75 degrees F AT 1043		
Jul-20	CUMULUS CAME IN AT 1130 & PC TO 1515 THEN MOSTLY CLEAR AGAIN-HOTTEST DAY SINCE JULY 1, 2021 WHEN IT WAS 96.3 degrees F		
Jul-21	AM AVERAGED PC AND PM WAS CLOUDY-DISTANT THUNDER HEARD AT 1450 BUT NO RAIN HERE-NOT COUNTED AS A TS		
Jul-22	SUN THROUGH CIRRUS MOST OF AM BUT A LITTLE LESS IN PM-HOTTEST SINCE JULY 28, 2020 WHEN IT WAS 100 degrees F		
Jul-23	TS RATED 4-3-3- MAX. TEMP. OF 98.4 WAS AGAIN THE HIGHEST TEMP. SINCE JULY 28, 2020 WHEN IT WAS 100 degrees F-TS CAUSED POWER OUTAGE FOR 1 HOUR 10 MINS.		
Jul-24	ABOUT THE SAME WEATHER AS YESTERDAY BUT MORE HUMID WITH MAX. DEW POINT OF 76 degrees F AT 1428		
Jul-25	TS RATED 3-3-3 - MOSTLY CLEAR TO 1120 THEN CIRRUS AND CIRROSTRATUS CAME IN FOLLOWED BY CUMULUS & CLOUDY PM-1ST THUNDER AT 1646 & RAIN BY 1655		
Jul-26	TS RATED 2-2-3 - 3RD PD. OF RAIN 1715-1930-FIRST THUNDER 1447-WEAKER THAN AVERAGE TS FROM 1447-1510-HEAVY CLOUDS MOST OF DAY		
Jul-27	VERY HIGH DEW POINT OF 78 degrees F AT 1253-3RD PD. OF RAIN 0555-0730, 4TH PD. 1610-1620, 5TH PD. 1700-1740		
Jul-28	VERY HIGH DEW POINT OF 77 degrees F AT 1459		
Jul-29	TS RATED 3-3-4 - A SEVERE ELECTRICAL STORM PASSED JUST TO NORTH OF SPRINGFIELD PARK BET. 295 AND ASHLAND		
Jul-30	TODAY HAD THE LOWEST MIN. TEMP. SINCE JULY 11 AND LOWEST MIN. RH SINCE JULY 24		
Jul-31	CLOUDY DAY WITH INCREASING HUMIDITY WITH AN AM SHOWER AND THE PM WITH RAIN. - 3RD RAIN PERIOD 1740-1850, 4th RAIN PERIOD 2005-2350		
DATE	EXTENSION OF LENGTHY DAILY REMARKS		
Jul-23	FROM 2150-2300		
Jul-25	HIGH DEW POINT TEMP. OF 78 degrees F AT 1307		
ALL DEW POINTS THIS MONTH AND THE SUMMER HAVE BEEN REDUCED BY 2 DEGREES F AS THE DAVIS INSTRUMENT OVERRATES DEW POINTS.			
The max. 24 hour rainfall was 1.17 inches from 1630 of the 25th to 1630 of the 26th as 0.06 inches of the 1.23 inches of the 25th & 26th was outside of the 24 hour period.			
The daily records for the month are listed on page # 4 and not found in the remarks.			
The link below explains how observations are taken at the Glen Allen Weather Station - Note the Numbers match the column numbers on the Observation Sheet			
Rules for making Observations in 2022			

July
2022

The Glen Allen Station had 13 Records or Record Ties in July 2022

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The maximum temperature on the 9th was 79.2°F, a new 13-year cool daily maximum temperature record for the date - the old record was 82°F in 2009 and 2008.
The daily temperature range on the 9th was 12.4°F, a new 13-year LOW daily temperature range record for the date - the old record was 13°F in 2008.

The maximum temperature on the 10th was 73.1°F, a new 13-year cool daily maximum temperature record for the date - the old record was 80°F in 2009.
The daily temperature range on the 10th was 6.7°F, a new 13-year LOW daily temperature range record for the date - the old record was 11°F in 2012 and 2010.

The minimum temperature on the 11th was 57.4°F, a new 13-year LOW daily minimum temperature record for the date - the old record was 64°F in 2009.
The daily temperature range on the 11th was 28.3°F, a new 13-year HIGH daily temperature range record for the date - the old record was 26°F in 2010.

The daily temp. range on the 15th was 18.6°F, and EQUALED the, 13-year LOW daily minimum temp.range record for the date - the old record was set in 2015.

The daily precipitation on the 23rd was 0.86 inches, a new 13-year HIGH daily precipitation record for the date - the old record was 0.74 inches in 2017.
The daily temperature range on the 23rd was 27.8°F, a new 13-year HIGH daily temperature range record for the date - the old record was 27°F in 2010.

The daily temperature range on the 24th was 27.9°F, a new 13-year HIGH daily temperature range record for the date - the old record was 25°F in 2010.

The daily temperature range on the 26th was 14.3°F, a new 13-year LOW daily temperature range record for the date - the old record was 16°F in 2010.

The maximum temperature on the 31st was 79.6°F, a new 13-year cool daily maximum temperature record for the date - the old record was 84°F in 2013.
The daily temperature range on the 31st was 10.2°F, a new 13-year LOW daily temperature range record for the date - the old record was 14°F in 2009.

July 2022

Springfield Park, Glen Allen, Virginia

July was the 5th wettest and the 7th warmest in the past 13 years and the cloudiest July on record mainly because of PM cloudiness. The mean temperature of 80.2 F was very close to the 13-year average of 80.25 F. The highest temperature for July was 98.4 F on the 23rd which is the 8th highest in the past 13 years for July. This July had 22 days with temperatures of equal to or greater than 90°F which tied for the third highest on record for July.

The high temperature range for July was 28.3F on the 11th and the lowest monthly daily temperature range was 9.6 F on the 10th. The July 10th max. temp. of 73.1 F was the lowest max. ever recorded in July; the previous record was 73.3 F. The daily mean for the 10th was 68.3 F which made it the coolest July day in the past 13 years. The average temperature range for July was 20.2 F which is near the 13-year average of 20.4 degrees F. The highest min. temp. was 75.7 F on the 18th and 21st which was the second lowest on record for July

The Richmond International Airport had 3.66 inches less precip. than Springfield Park. Springfield Park had 5.14 inches of precipitation, a departure of 0.84 inches, and the Richmond International Airport had 1.48 inches, a departure of -2.89 inches. Rainfall from thunderstorms was quite variable for July over the area. Springfield Park had 11 days of measurable precip.

The highest wind gust was 36 mph from the SSW on the 13th at 1810 hours, the 2nd highest for the 13-year period. The max. daily wind run on the 18th was 128.9 miles, the 2nd highest on record for July. The total wind run for the month was 1929.2 miles the 3rd windiest July on record. The average relative humidity for July was 75.6 percent which was a +4.9% departure which was the 3rd highest in the past 13 years. The average dew point for July was 71.6 F which was the 2nd highest on record for July.

Richmond International Airport

The Richmond International Airport's average mean temperature was 80.7°F which was a departure of 1.3 F from the average and was the 18th warmest since 1897. The highest monthly temperature was 98 F on the 21st and 24th. The lowest maximum temperature was 73 F on July 10th which tied the daily record for the date. The highest daily mean temp. was 86.0 F on the 24th. The average maximum temperature was 90.7 F which was a 1.2 F departure. The average minimum was 70.7 F which was a 1.5 F departure for the month. July had 21 days with temperatures of equal to or greater than 90 F and 21 nights the low temperature was 70 F or higher; the average is 14 nights for the period since 1880. The daily temperature range for July was 20.0 F. The maximum daily temperature range for the month was only 26 F on the 17th; only 17 years had a lower max. monthly range since 1897. The min. temp. range was 8 degrees F on the 10th.

The Airport had 1.48 inches of precipitation which was a departure of -2.89 inches and made July the 11th driest July since 1887. The Airport had 11 days with measurable precip. which is average but the most in a day was only **0.40** inches. Only 4 years since 1887 have had a July with such a low daily precip. amount for July.

The Richmond International Airport had 1 daily record set in July.

July 10th the maximum temp. of **73 F** tied the record for lowest max. temp for the date set in 1908. (Note how clearly this low maximum temp. shows up on the Airport's graph)

ACON - VA/NC/SC

The Atlantic Coast Observer Network: Virginia, North Carolina, South Carolina

July 2022

Station summary of Climatological Data

Observer: Lowell L. Koontz

West Henrico - Glen Allen, VA

Observation Times: Temps Recorded 2400 Precipitation Recorded 2400

TEMPERATURE °F

A	MEAN MAXIMUM	90.32
B	MEAN MINIMUM	70.14
C	MEAN MONTHLY	80.23
C1	MEAN TEMP DEP.	0.0
D	MAXIMUM	98.4
E	DATE(s) OF MAX.	Jul-23
F	MINIMUM	57.4
G	DATE(s) OF MIN.	Jul-11
H	# DAYS MAX. > = 90°	22
I	# MAX. < = 32°	0
J	MIN. < = 32°	0
K	MIN. >= 70°	19
K1	AVE RELATIVE HUMIDITY	75.7

WIND MPH

L	MAX. GUST	36
M	DIRECT. OF GUST	SSW
N	DATE	Jul-13
	TIME	18:10

NUMBER DAYS WITH -

O	THUNDER	7
P	HAIL	0
Q	GLAZE	0
R	ICE PELLETS (SLEET)	0
R1	DENSE FOG < = 1/4 MILE	0

PRECIPITATION INCHES

T	MONTH TOTAL	5.14
U	CALENDAR DAY MAX.	1.00
U1	DATE OF MAX.	Jul-29
V	24-HR. PERIOD MAX.	1.17
V1	DATE(s) OF MAX. PD.	25 th - 26 th
W	# DAYS > = 0.01"	11
X	# DAYS > = 1.00"	1
Y	YR. TO DATE TOT.	27.30
	MAX. 1 HR. PRECIP.	0.86
	MAX.5 MIN PRECIP.	0.40

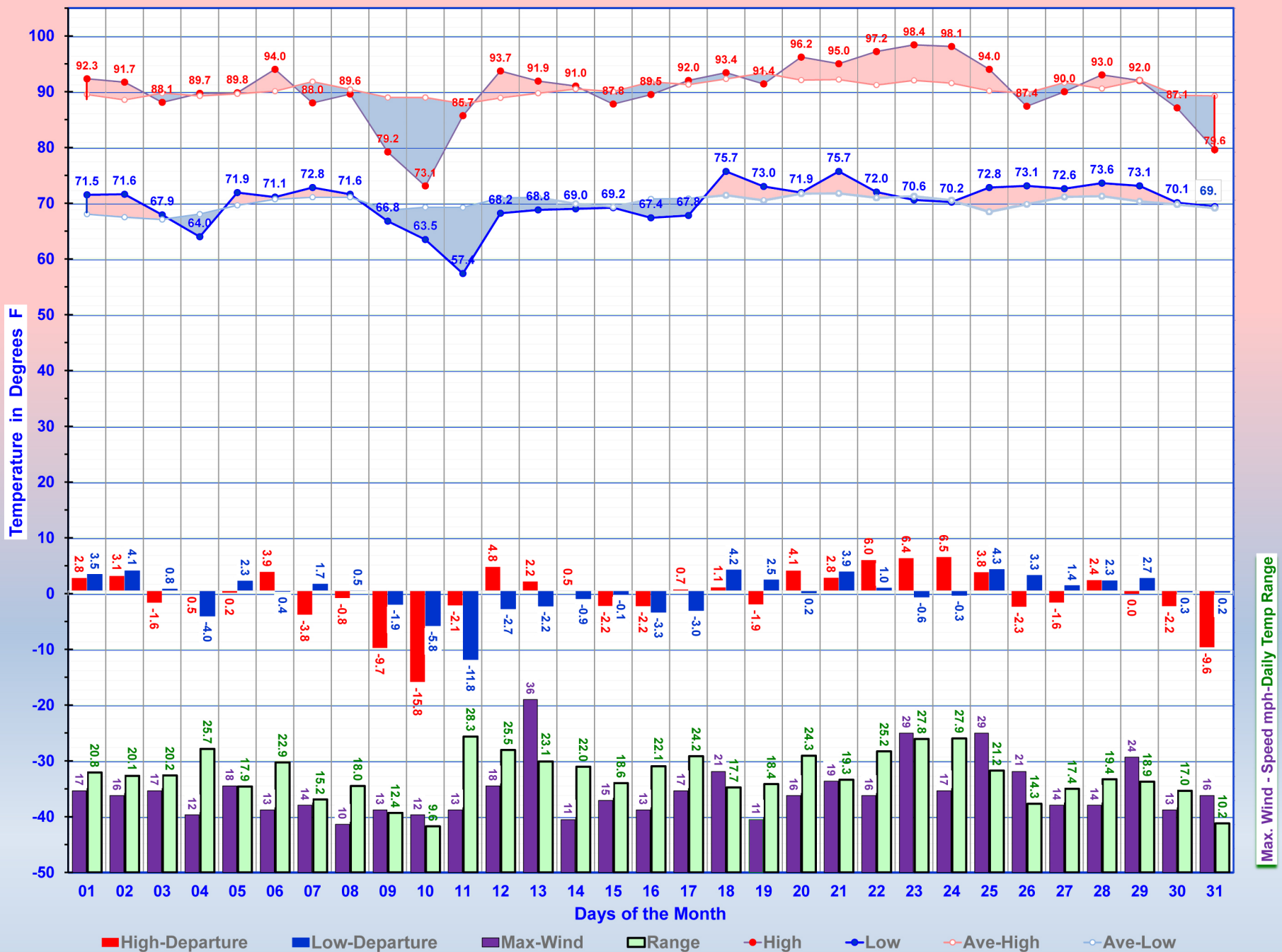
SNOWFALL INCHES

Z	DAILY MAXIMUM	0.0
1	DATE OF MAX.	
2	DAYS= > TRACE	0.0
3	DAYS > = 1.0"	0.0
4	MONTHLY TOTAL	0.0
5	2021 - 2022 SEASON'S TOT.	10.1

BAROMETER

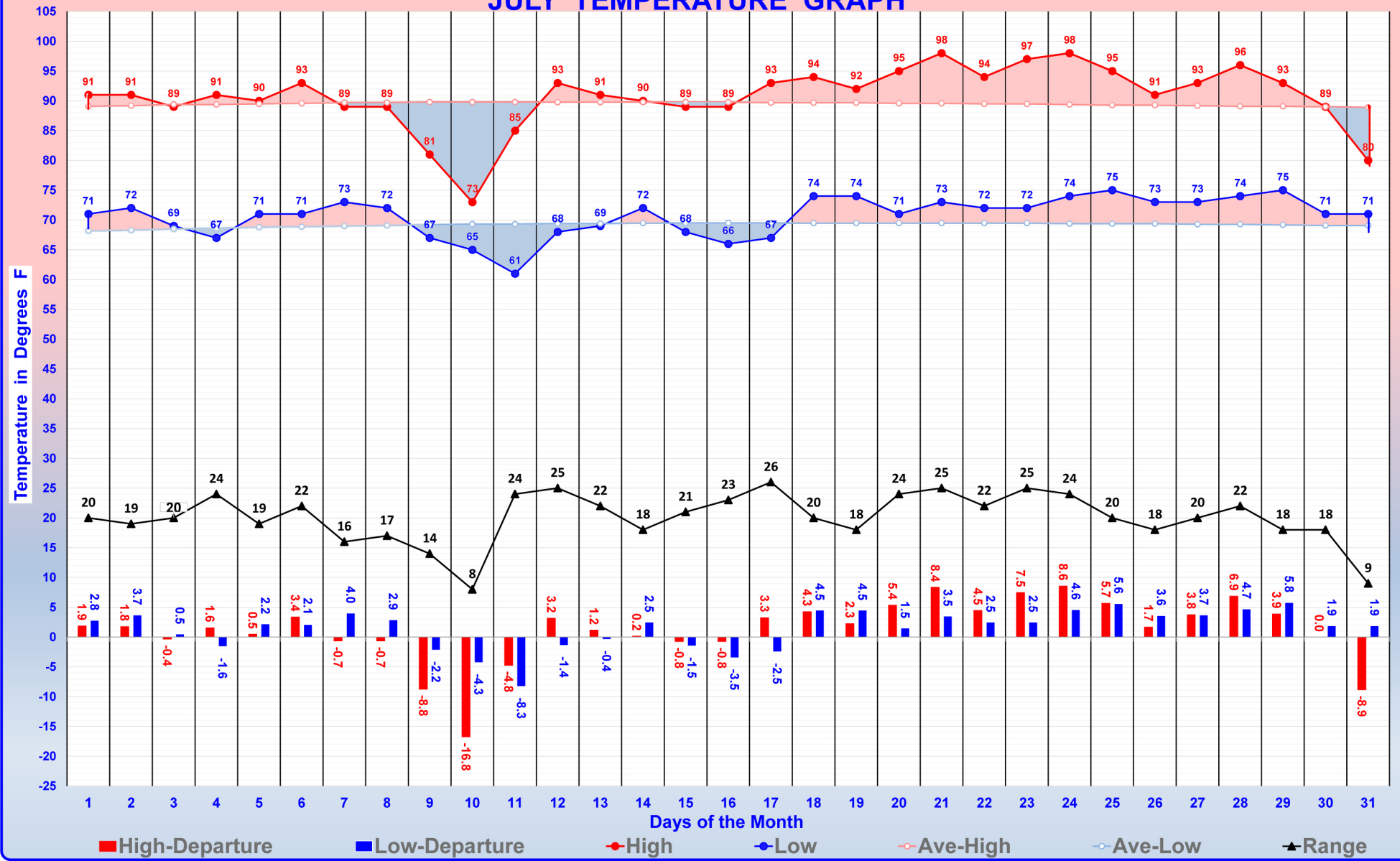
6	MAXIMUM	30.21
6A	DATE	4 TH & 31 ST
7	MINIMUM	29.72
7A	DATE	Jul-21
8	AVE. MONTHLY PRESSURE	29.99
CWA	NWS COUNTY WARNING AREA	Henrico

SPRINGFIELD PARK'S JULY TEMPERATURE & WIND GRAPH



The Richmond International Airport

JULY TEMPERATURE GRAPH



STATION (Climatological) Springfield Park				(River Station, if different)				MONTH Jul		2022		WS FORM B-91 (03-09)		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE																
STATE VA				COUNTY Henrico				RIVER																						
TIME (local) OF OBSERVATION RIVER				TEMPERATURE MID		PRECIPITATION MID		STANDARD TIME IN USE																						
TYPE OF RIVER GAGE				ELEVATION OF RIVER GAGE ZERO		FLOOD STAGE		NORMAL POOL STAGE																						
DATE	TEMPERATURE			PRECIPITATION										WEATHER (Observation Day)						RIVER STAGE			REMARKS (SPECIAL OBSERVATIONS, ETC.)							
	24 HRS ENDING AT OBSERVATION AT OBSN			24 HR AMOUNTS		AT OB		Draw a straight line (—) through hours precipitation was observed, and a wavy line (~~~~) through hours precipitation probably occurred unobserved										Mark 'X' for all types occurring each day						Time of occurrence if different from above	Condition	Gage reading at __ AM	Tendency			
				Rain, melted snow, etc. (in and hundredths)		Snow, ice pellets, hail (ins. and tenths)		Snow, ice pellets, hail on ground (in)		A.M. NOON P.M.										Fog	Ice pellets	Glaze						Thunder	Hail	Damaging winds
										1 2 3 4 5 6 7 8 9 10 11 1 2 3 4 5 6 7 8 9 10 11																				
MAX		MIN		0.00		0.0		0																						
1	92	72	78	0.00		0.0		0																					Early AM clouds cleared at 0700 and became mostl	
2	92	72	79	0.00		0.0		0																					Low stratus clouds start to clear at 0900 but th	
3	88	68	68	0.00		0.0		0																					A cold front passed at 0900 giving a breezy (17	
4	90	64	75	0.00		0.0		0																					Today the sky was clear until 1300 when cumulus	
5	90	72	75	T		0.0		0																					Today was cloudy and humid with a trace of rain	
6	94	71	77	0.01		0.0		0																					A cloudy humid day with a max. dew point of 76 d	
7	88	73	76	0.00		0.0		0																					A cloudy and very humid day with a max. dew poin	
8	90	72	79	0.00		0.0		0																					Today was the 3rd consecutive cloudy very humid	
9	79	67	67	0.34		0.0		0																					Today 3 thunders were heard 0553, 0557, 0600 and	
10	73	64	64	0.07		0.0		0																					Today set a new 13 year daily record low max. te	
11	86	57	72	0.00		0.0		0																					The min. temp. on the 11th was 57.4 degrees F at	
12	94	68	76	0.00		0.0		0																					Today was much warmer with a few scattered PM cu	
13	92	69	72	0.84		0.0		0																					Springfield Park had the most intense rainfall o	
14	91	69	76	0.00		0.0		0																					The AM sky was clear. Cumulus clouds started com	
15	88	69	69	0.00		0.0		0																					Today was cloudy or the sun was dimmed passing t	
16	90	67	70	0.03		0.0		0																					A strong TS passed to the west of Short Pump the	
17	92	68	78	0.00		0.0		0																					Today's sky was mostly clear until 0830 then ave	
18	93	76	78	T		0.0		0																					Today was a windy hot day. Then distant thunde	
19	91	73	77	0.00		0.0		0																					Today was mostly cloudy and humid with a max. de	
20	96	72	83	0.00		0.0		0																					Today's 96.2 degrees F was the highest max. tem	
21	95	76	76	0.00		0.0		0																					The AM sky averaged partly cloudy and the PM sky	
22	97	72	79	0.00		0.0		0																					The maximum temperature today was 97.2 degrees F	
23	98	71	72	0.86		0.0		0																					TS form just west of Short Pump at 2100 and went	
24	98	70	83	T		0.0		0																					Today was clear to 1350 then it became cloudy wi	
25	94	73	73	0.61		0.0		0																					Today was mostly clear until 1120 when cirrus th	
26	87	73	73	0.62		0.0		0																					Today was mostly cloudy with the first thunder a	
27	90	73	76	0.33		0.0		0																					Today was cloudy with 5 periods of rain and very	
28	93	74	77	0.00		0.0		0																					Today's max. dew point was 77 degrees F at 1459	
29	92	73	75	1.00		0.0		0																					A severe electrical TS passed just to our north	
30	87	70	70	0.00		0.0		0																					Today had the lowest max. temp. since the 11th o	
31	80	69	74	0.43		0.0		0																					Today had an AM shower from 0855 to 0920 of 0.01	