PAGE #1		Nov	2021	West He	nrico Co.	- Glen Alle	en Weath	er Center	37.6553	7° N. 77.	56929° V	V Koon	tz							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18 19			
Nov	Week		TEMPERA				TEMPERA				(Y		RECIPITAT					1st PERIOD		
2021	Day	MAX.	Time	MIN.	Time	RANGE	MEAN	CHANGE	SOIL	AM	PM	Liquid	1 Hr.	5 Min.	NEW	GROUND	START	END		
Nov-01	Mon	68.2	14:12	42.7	7:43	25.5	55.5	-4.2	62	0	1									
Nov-02	Tue	50.9	0:01	43.4	21:38	7.5	47.2	-8.3	61	2	2	0.13	0.04	0.01			0855	1825		
Nov-03	Wed	55.3	13:08	34.7	8:01	20.6	45.0	-2.2	60	0	0									
Nov-04	Thu	50.1	15:13	34.3	22:41	15.8	42.2	-2.8	59	2	2									
Nov-05	Fri	54.2	13:43	30.5	8:06	23.7	42.4	0.1	58	0	0									
Nov-06	Sat	52.5	11:18	31.6	5:14	20.9	42.1	-0.3	56	1	2	Т	T	Т			1610	1735		
Nov-07	Sun	56.7	11:55	37.3	23:00	19.4	47.0	5.0	56	1	2									
Nov-08	Mon	69.9	13:56	35.1	3:33	34.8	52.5	5.5	55	0	0									
Nov-09	Tue	76.4	13:42	38.7	6:46	37.7	57.6	5.1	55	0	0									
Nov-10	Wed	74.3	14:07	44.8	4:06	29.5	59.6	2.0	55	1	0	Т	T	Т			0738	0740		
Nov-11	Thu	70.6	13:50	43.7	5:37	26.9	57.2	-2.4	56	1	1	T	Т	Т			2345	2350		
Nov-12	Fri	70.5	12:56	41.4	23:47	29.1	56.0	-1.2	56	2	0	0.17	0.08	0.04			0030	0250		
Nov-13	Sat	63.2	12:25	31.6	23:58	31.6	47.4	-8.6	56	2	0									
Nov-14	Sun	52.7	14:09	26.8	6:38	25.9	39.8	-7.7	55	2	1									
Nov-15	Mon	53.7	13:37	32.8	22:02	20.9	43.3	3.5	54	0	0									
Nov-16	Tue	59.8	13:51	33.9	0:02	25.9	46.9	3.6	53	2	1									
Nov-17	Wed	71.7	14:55	37.3	4:18	34.4	54.5	7.7	53	1	0									
Nov-18	Thu	77.6	13:56	52.3	3:36	25.3	65.0	10.5	53	0	0	0.06	0.03	0.01			1655	2320		
Nov-19	Fri	54.8	0:01	29.2	23:59	25.6	42.0	-23.0	55	0	0									
Nov-20	Sat	50.5	13:52	24.5	6:44	26.0	37.5	-4.5	53	2	1									
Nov-21	Sun	57.1	12:51	30.8	4:47	26.3	44.0	6.5	51	2	2									
Nov-22	Mon	52.9	14:48	36.3	23:57	16.6	44.6	0.6	52	2	2	0.02	0.01	0.01			0615	0915		
Nov-23	Tue	47.0	12:29	24.8	23:28	22.2	35.9	-8.7	52	0	0									
Nov-24	Wed	50.8	14:05	21.3	7:15	29.5	36.1	0.1	49	0	0									
Nov-25	Thu	63.4	14:21	32.9	0:40	30.5	48.2	12.1	48	1	1	Т	Т	Т			2330	2400		
Nov-26	Fri	56.2	10:47	27.7	23:55	28.5	42.0	-6.2	49	1	0	0.13	0.11	0.01			0001	0400		
Nov-27	Sat	47.8	13:47	23.1	6:22	24.7	35.5	-6.5	49	0	0									
Nov-28	Sun	63.3	12:18	35.7	7:29	27.6	49.5	14.1	48	0	2									
Nov-29	Mon	50.6	12:29	26.9	23:41	23.7	38.8	-10.8	48	0	0									
Nov-30	Tue	58.0	13:41	27.3	0:01	30.7	42.7	3.9	47	1	0									
TOTAL		1781		1013		767.3	1397.1	-17.0	1614	26	20	0.51	0.27	0.08	0.0	0	Col.	26-27		
NUMBER		30	30	30	30	30	30	30	30	30	30	5	5	5	0	0.0	DAILY	AVE RH		
AVERAGE		59.36	12:32	33.78	11:46	25.58	46.57		53.80	0.87	0.67	Ave. Tot.	Ave. Max	Ave. Max	Ave. Tot.	Ave. Days	67.0	Percent		
NORMALS		60.41		38.06		22.12	49.05		54.20	0.91	1.04	3.62	0.48	0.12	0.0	0.0	70.6	Percent		
DEPARTU	RES	-1.05		-4.28		3.46	-2.48		-0.40	-0.04	-0.37	-3.11	-0.21	-0.04	0.0	0.0	-3.7	Percent		
Max. Temp	s. >= 70°F	77.6	Ave.HighMax	52.3	Ave.HighMin	37.7	65.0	14.1	62.0	Whol	e Day	0.17	0.11	0.04	0	0.0	Precip	24 Hr.		
2021		Nov-18	76.3	Nov-18	58.6	Nov-09	Nov-18	Nov-28	Nov-01	AVERAGE	0.77	Nov-12	Nov-26	Nov-12			Amount	0.17		
Ave.			Dep.		Dep.					Normal	0.97						Date	Nov 12		
Departure			1.3		-6.3					Depart.	-0.21						Date			
Min. Temp		47	Ave.LowMax	21.3	Ave.LowMin	7.5	35.5	-23.0	47.0	SKY	AM	PM	≥ 0.10	Precip.	≥ 1.00	Precip.	≥ 2.00	Precip.		
	2021 13		43.9	Nov-24	23.5	Nov-02	Nov-27	Nov-19	Nov-30	CLEAR	13	17	3	DAYS	0	DAYS	0	DAYS		
Ave.			Dep.		Dep.					PT. CLO.	8	6	HOTTEST	65.0	Highest	Lowest	COOLEST	35.5		
Departure			3.1		-2.2					CLOUDY	9	7	DAY	11-18	Mean	Mean	DAY	11-27		
Days Max.		0		MAX.	≥ 80	≥ 75	≥ 70	≥ 65	≥ 60	≥ 55	≥ 50	≥ 45	≥ 40	≥ 35	≥ 30	≥ 25	≥ 20			
Days Max.	>=90°F	0		DAYS	0	2	7	8	12	18	28	30	30	30	30	30	30			

PAGE #2	Nov	2021	West Hei	nrico Co.	Glen All	en Weath	er Cente	er 37.655	37° N. 77.	56929° W.	Koontz							
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Nov		ERIOD		WIND		REL. HU			BAROMETRI			GLAZE				K		
2021	START	END	RUN	MAX.	TIME	MAX.	MIN.	MAX.	MIN.	AVE.			SLEET	SNOW	FOG	1 🔍	DEW	FROST
Nov-01			22.6	11	11:17	98	48	30.24	30.00	30.12	0.32						4	
Nov-02			28.0	11	11:25	98	84	30.30	30.19	30.25	0.13						3	
Nov-03			24.7	12	15:35	99	42	30.38	30.28	30.33	0.08						Р	
Nov-04			38.0	11	12:41	95	55	30.36	30.25	30.31	-0.02						2	
Nov-05			44.0	17	12:20	95	38	30.41	30.27	30.34	0.04							4
Nov-06			80.9	18	11:07	93	54	30.40	30.23	30.32	-0.03						1	3
Nov-07			95.2	20	9:14	90	44	30.24	30.10	30.17	-0.14						2	
Nov-08			47.3	18	9:53	96	42	30.24	30.11	30.18	0.00						3	1
Nov-09			34.8	11	14:40	99	37	30.25	30.07	30.16	-0.01						4	
Nov-10			20.1	9	7:50	94	42	30.22	30.05	30.14	-0.03						3	
Nov-11	0.55	0015	67.4	21	23:19	97	49	30.22	29.97	30.10	-0.04						4	
Nov-12	0525	0610	60.0	21	0:01	97	34	30.01	29.90	29.96	-0.14						р	
Nov-13			57.5	20	11:09	94	34	30.06	29.81	29.94	-0.02						3	
Nov-14			55.6	17	13:22	95	44	30.09	29.84	29.97	0.03						N.	4
Nov-15			56.2	21	11:32	84	39	30.20	29.82	30.01	0.04						N 2	
Nov-16			31.4	11	13:35	90	43	30.27	30.16	30.22	0.21							
Nov-17			64.8	16	14:56	95	55	30.29	30.16	30.23	0.01						4	
Nov-18			142.3	26	10:42	91	42	30.19	29.99	30.09	-0.14	4					N	
Nov-19			66.3	20	13:30	91	35	30.56	30.13	30.35	0.25						Р	4
Nov-20			22.1	10	11:36	94	49	30.60	30.43	30.52	0.17							4
Nov-21			41.8	16	13:36	96	54	30.43	30.02	30.23	-0.29							4
Nov-22	1700	1755	61.3	20	18:15	92	46	30.06	29.88	29.97	-0.26						Р	4
Nov-23			50.1	20	10:58	79	33	30.32	30.05	30.19	0.22							1
Nov-24			22.5	11	12:57	92	31	30.48	30.31	30.40	0.21						NI.	4
Nov-25			86.9	16	13:58	72	30	30.33	29.84	30.09	-0.31						N P	
Nov-26			55.7	21	10:54	98	33	30.00	29.77	29.89	-0.20						Р	3
Nov-27			29.6	13	23:27	86	34	30.11	29.95	30.03	0.15						N	3
Nov-28			72.7 53.8	16	2:25	72 84	35	29.95	29.78	29.87	-0.16						N	
Nov-29 Nov-30			92.3	18 23	10:40 14:55	84	38 33	30.13 30.13	29.87 29.96	30.00	0.13 0.05						IN	1
1404-30			32.3	23	14.00	04	JJ	30.13	23.90	30.03	0.00							1
TOTAL			1625.9	495		2740	1277	907.47	901.19	904.33	TOTAL	0	0	0	0	0	12	10
NUMBER	Mar. W	ind Run	30	30	30	30	30	30	30	30	NORMAL	0.0	0.2	0.6	2.8	0.5	11.4	9.0
AVERAGE	Total	1625.9	54.2	16.5	12:23	91.33	42.57	30.25	30.04	30.14	DEPART.	0.0	-0.2	-0.6	-2.8	-0.5	0.6	1.0
NORMALS	Miles	1565.0	51.5	16.94		92.2	49.1	30.25	30.02	30.13	Rating ►	0	0	0	0	0	35	29
Departures	Miles	60.9	2.7	-0.44		-0.9	-6.5	0.00	0.02	0.01	Intensity	Щ	H	≥	(D	IZ		ŧ
	MAXIMUM	Dates	142.3	26	SSW	99	84	30.60	30.43	30.52	0.32	GLAZE	SLEET	SNOW	F0G	1	Dew	Frost
	DATES	1	Nov-18	Nov-18	10:42	Nov-03	Nov-02	Nov-20	Nov-20	Nov-20	Nov-01	ច	S	Ö	т.			ш
		2				Nov-09						5. Very Hea	•			N- None No		
		3										4. Heavy-U				P- Precip.	prevent obs	
Min. Temps.		4	20.1		Ave. Max.							3. Moderat						
2021		30 Dates		9	31.1	72	30	29.95	29.77	29.87	-0.31	2. Light - >:						
Ave.	0.0	1	Nov-10	Nov-10	Dep.	Nov-25	Nov-25	Nov-28	Nov-26	Nov-28	Nov-25	1. Very Ligi	•					
Departure	30.0	2		4 F-	-5.1	Nov-28	4.65	2	4		4 15	M - Event				2		
Days Min. <		13	MIN.	≤ 75	≤70	≤ 65	≤ 60	≤ 55	≤ 50	≤ 45	≤ 40	≤ 35	≤ 30	≤ 25	≤ 20	≤ 15		
Days Min >	>=/U*F	30	DAYS	30	30	30	30	30	29	29	24	19	9	4	0	0		

PAGE #3	West Henrico Co Glen Allen Weather Center 37.65537° N. 77.56929° W Koontz
39	40
Nov	REMARKS FOR THE MONTH
2021	November - 2021
	A VERY CLEAR AM AND CUMULUS CLOUDS CAME IN AT 1245 & PM WAS ABOUT 35-40% CLOUDY
Nov-02	A CLOUDY DAMP DAY AND GLOOMY DURING PERIODS OF DRIZZLE
	COLDEST MIN. SINCE APR. 23, 2021 WHEN IT WAS 32.2 degrees F -MOSTLY CLEAR DAY BUT CHILLY WITH A NORTH BREEZE AND MAX. WIND GUST OF 12 MPH AT 1535
	A COLD CLOUDY DAY FOR EARLY NOV.
	COLDEST SINCE APR. 3, 2021 WHEN IT WAS 24.8 degrees F GIVING A HEAVY FROST THAT YIELDED 0.01 INCHES OF FROZEN CONDENSATION BUT DIDN'T KILL
	MUCH LESS FROST TODAY BUT STILL A CHILLY DAY - FROST MELTED SOME BY 0700-TRACES OF DRIZZLE OCCURRED BET. 1610-1735 & A CHILLY CLOUDY AFTERNOON
Nov-07 Nov-08	CIRRUS AND CIRROSTRATUS COVERED MOST OF SKY ALL DAY BUT SOLAR ENERGY CAME THROUGH BUT LESS DURING AM CLOUDS A VERY CURINA DAY WITH A 24 S decrease F. WARMUR FROM MORNING SMIN.
Nov-08 Nov-09	A VERY SUNNY DAY WITH A 32.7 degrees F. WARMUR FROM MORNING'S MIN.
	A VERY SUNNY DAY WITH A 37.7 degrees F WARMUP FROM MORNING'S MIN. GIVING A WARM PM WEAK AM COLD FRONT PASSED AT 0745 GIVING A SHORT SPRINKLETHAT MEASURED ONLY 3 0F 15 ON PRECIP. SENSOR INSTRUMENT
	COLD FRONT APPROACHING FROM WEST SHOULD PASS TOMORROW
	FIVE CONSECUTIVE 70 degrees F DAYS-CLOUDY TO 0945 THEN PARTIAL CLEARING THEN CLOUDY AGAIN AT 1045 & CLEAR AFTER 1100
	CLOUDY TO 1015 BUT CLEAR FORM 1115 TO MIDNIGHT WITH A WINDY AM & AM EST. CLOUD COVER OF 70-80%
	FIRST KILLING FROST A HARD FREEZE WITH A MIN. OF 24.8 degrees F AND COLDEST SINCE APR. 3, 2021
Nov-15	NIGHT WIND MAX. 13 MPH PREVENTED MORNING DEW-A VERY CLEAR DAY ONLY A FEW SCATTERED FAIR WEATHER CUMULUS
Nov-16	AM WAS CLOUDY - CLOUDS STARTED TO CLEAR AT 1300 THEN PC TO 1500 THEN CLEAR AGAIN AFTER 1600
Nov-17	ALTOCUMULUS AND CIRRUS IN AM CLEARED AROUND 1130 AND PM WAS MOSTLY CLEAR EXCEPT A FEW THIN CIRRUS
Nov-18	AM RELATIVE HUMIDTY 76% AND DRY AIR GAVE NO DEW-WARMEST NOV. 18TH AT AIRPORT SINCE 1938 - SOME CLOUDS AFTER 1515
Nov-19	A VERY CLEAR WINDY AND CHILLY DAY FOR NOV.
Nov-20	COLDEST MORNING SINCE MARCH 12, 2021 WHEN IT WAS 23.2 degrees F -AM CLOUDS THIN CIRRUS - PM CLOUDS PARTLY CLOUDY WITH CIRRUS
Nov-21	A THIN AM CLOUD COVER WITH WEAK SHADOWS BUT BECAME THICK ENOUGH BY 1215 THAT THERE WERE NO SHADOWS FOR REST OF DAY
Nov-22	EXTREMELY LIGHT 5 MIN. SPRINKLES AT 0220, 0420, 0525-HARDLY DISCERNIBLE PRECIP PC FROM 1415-1515 OTHERWISE CLOUDY ALL DAY
Nov-23	NOT MUCH FROST WITH A BREEZY NIGHT AND DRY AIR-A MIN. DEWPOINT OF 16 degrees F OCCURRED AT 1657-MAX. WIND 20 MPH AT 1058-VERY COLD DAY
Nov-24	COLDEST SINCE FEB. 25, 2021 WHEN IT WAS 16.3 degrees F -A VERY CLEAR DAY WITH THIN CIRRUS THAT CAME IN AT 1500 & BECAME THICKER BY 1600
Nov-25	MUCH WARMER AND BREEZY WITH A SKY WITH CIRRUS CLOUDS-DRY AIR MASS WITH A 30% MIN. RH
Nov-26	CLOUDS FROM 0945-1100 OTHERWISE A MOSTLY SUNNY WINDY DAY WITH A MAX. WIND OF 21 MPH
Nov-27	A SUNNY BUT CHILLY DAY WITH A LOW RH OF 34% AT 1434
Nov-28	AM RELATIVE HUMIDTY ONLY 65% AND NO DEW-CLEAR UNTIL 1125 THEN CLOUDY TO 1630 THEN CLEARING AGAIN
Nov-29	AFTER A U.L.T. PASSAGE ABOUT 10 DEGS COOLER BUT CLEAR SKIES & MUCH SUN UNTIL SCATTERED CUMULUS CAME IN AT 1115 TO 1520 THEN CLEAR AGAIN AFTER 1520
Nov-30	A FEW EARLY SNOW FLURRIES OVER NORTHERN VA.BUT NO PRECIP HERE- AM CLOUDS CLEARED AT 915 & A WINDY BUT SUNNY DAY.
DATE	EXTENSION OF LENGTHY DAILY REMARKS
Nov-05	THE TROPICAL HIBISCUS NOR THE MANDEVILLA BUT DAMAGED THE LIMA BEANS AND CALLA LILIES
	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 2021

Page 4	West Henrico Co Glen Allen Weather Center 37.65537° N. 77.56929° W Koontz
41	DAILY RECORDS FOR THE MONTH
Nov	
2021	The Springfield Park Station had 12 Records or Record Ties in November 2021
1	
2	The maximum temperature on the 2nd was 50.9°F, a new 13-year cold daily maximum temperature record for the date - the old record was 53°F in 2014.
	The daily precipitation on the 2nd was 0.13 inches, a new 13 year HIGH daily precipitation record for the date - the old record was 0.05 inches in 2018 and 2015.
3	The maximum temp. on the 3rd was 55.3°F, a new 13-year cold daily maximum temperature record for the date - the old record was 56°F in 2012 & 2010.
4	
5	The minimum temperature on the 5th was 30.5°F, a new 13-year LOW daily minimum temperature record for the date - the old record was 31°F in 2012.
6	
7	
8	
9	The daily temperature range on the 9th was 37.7°F, a new 13-year HIGH daily temperature range record for the date - the old record was 34°F in 2012.
10	
11	
12	
13	
14	
15	
16	
17	The maximum temperature on the 17th was 71.7°F, a new 13-year daily HIGH maximum temperature record for the date - the old record was 68°F in 2013.
	The daily temperature range on the 17th was 34.4°F, a new 13-year HIGH daily temperature range record for the date - the old record was 29°F in 2016.
18	The maximum temperature on the 18th was 77.6°F, a new 13-year daily HIGH maximum temperature record for the date - the old record was 72.3°F in 2016.
	The minimum temperature on the 18th was 52.3°F, a new 13-year warm daily minimum temperature record for the date - the old record was 49°F in 2015 and 2013.
19	
20	The minimum temperature on the 20th was 24.5°F, a new 13-year LOW daily minimum temperature record for the date - the old record was 28.3°F in 2017.
21	
22	
23	
24	
25 26	The minimum temperature on the 26th was 27.7°F, a new 13-year LOW daily minimum temperature record for the date - the old record was 30°F in 2008.
27	The minimum temperature on the 25th was 27.7 °F, a new 13-year LOW daily minimum temperature record for the date - the old record was 30°F in 2008. The minimum temperature on the 27th was 23.1°F, a new 13-year LOW daily minimum temperature record for the date - the old record was 30°F in 2008.
28	The minimum composition on the Zent was 20 taday, i a new 10 year 20 th daily minimum competature record for the date - the date - the date rate and Zentage, in 2000.
29	
30	

Springfield Park, Glen Allen November 2021

November had only 0.51 inches precip. and was the driest Nov. since 2012 when only 0.46 inches was recorded. This is the least precip. in any month since Sept. 2019. The max. precip. in a day, 24 -hour period, and 1 hr. period where all new records for Nov. Nov. had a negative 3.11-inch precip. departure. Precipitation occurred on only 5 days in November, the 2nd lowest on rec. for Nov., and it was the 3rd clearest Nov. on record. 2010 was the clearest Nov. on record. The afternoons this month were particularly clear and set a new record for Nov.

This November's mean of 46.6 degrees F, a departure of -2.5 degrees from the 13-year ave., was the 6th coldest on record. The clear skies gave the 2nd highest ave. temp. range for the month of Nov. of 25.6 degrees. The highest daily mean temp. was 65 degrees on the 18th the warmest day. The highest maximum temperature for November was 77.6 degrees on the 18th. This month also had 7 days equal to or warmer than 70 degrees. The average maximum temperature was 59.4°F with a departure of negative 1.1 degrees. The ave. min. temp. was 33.8 degrees which was the 2nd lowest on record for November and only 0.5 degrees above the record minimum. The lowest minimum was 21.3 degrees recorded on the 24th. The highest minimum was 52.3 degrees which was a 6.3 degrees departure and the 3rd lowest on record. There were 13 days that the minimum temperature was less than or equal to 32°F which was 4 days above the average. The graphs both show about 22 days the min. temp. was below the average. There was no snow recorded in November at Springfield Park. The maximum wind gust was only 26 mph from the SSW on the 18th. The highest barometer was 30.60 inches on the 20th and the lowest was 29.77 inches on November 26th. There were no storms for Nov. & the 29.77 inches of mercury set a new record high min. pressure for the month.

		2021	AUTUM	N SEAS	ON SE	P, OCT,	NOV		
Winter	Mean	13-YR	Temp.	Total	13-YR	Prec.	Total	13-YR	Snow
Season	Temp.	Ave.	Dep.	Prec.	Ave.	Dep.	Snow	Ave.	Dep.
Months	°F	°F	°F	Inches	Inches	Inches	Inches	Inches	Inches
SEP.	71.9	72.0	0.0	3.55	3.96	-0.41	0.0	0.0	0.0
OCT.	65.2	60.6	4.5	3.50	4.56	-1.06	0.0	0.0	0.0
NOV.	46.6	49.1	-2.5	0.51	3.62	-3.11	0.0	0.0	0.0
SUM	183.7	181.7	2.0	7.56	12.14	-4.58	0.0	0.0	0.0
AVE.	61.2	60.6	0.7	2.52	4.05	4.05 -1.53		0.0	0.0

This autumn was 0.7°F warmer than ave. based on a 13-year ave. as Oct was the warmest on record. Glen Allen's 2021 average autumn temp. was 60.6 degrees, the 8th warmest autumn on record. Glen Allen had the 3rd driest autumn with only 7.56 inches of precipitation and a departure of -4.58 inches.

Richmond International Airport November 2021

The November mean temperature was 49.6F which was a departure from normal of -1.9 degrees.

The 0.70 inches of precipitation was a departure of -2.36 inches making this month the 13th driest November since 1887. This was the driest Nov. since 2012 when only 0.27 inches was recorded; 2012 was the 4th driest Nov. on record since 1887. November had only 6 days with measurable precipitation. The Airport's greatest daily precipitation was only 0.24 inches on the 18th. The most precip. in 24 hrs. was only 0.24 inches and only 5 years have had less in Nov. since 1887. There was no snow in November at the Airport.

The highest temp. was 77 degrees on November 18th and the lowest temperature was 25°F on the 24th. The average maximum was 60.4 degrees which was a departure of -0.7 degrees. The average min. was 35.7 degrees which was a departure of -3.1 degrees. The highest monthly minimum was 48 degrees on the 18th. Only 4 Novembers have been lower 1917, 2021, 2019, and 1910 was the record with 45 degrees. The Airport had 7 days the max. temp was 70°F or higher and 9 days the minimum temp. was 32°F or less. The Airport had no daily records for the month.

		2021 A	UTUMN	SEASO	N SEP,	OCT, NO	V		
Winter	Mean	30-YR	Temp.	Total	30-YR	Prec.	Total	30 -YR	Snow
Season	Temp.	Ave.	Dep.	Prec.	Ave.	Dep.	Snow	Ave.	Dep.
Months	°F	°F	°F	Inches	Inches	Inches	Inches	Inches	Inches
SEP.	72.6	71.2	1.4	5.79	4.61	1.18	0.0	0.0	0.0
OCT.	65.9	60.0	5.9	5.61	3.39	2.22	0.0	0.0	0.0
NOV.	47.7	49.6	-1.9	0.70	3.24	-2.54	0.0	0.0	0.0
SUM	186.2	180.8	5.4	12.10	11.24	0.86	0.0	0.0	0.0
AVE.	62.1	60.27	1.8	4.03	3.75	0.29	0.0	0.0	0.0

Richmond's fall season was 1.8 degrees warmer than normal based on a 30-yr. average.

The fall season ave. of 62.1°F was the 13th warmest autumn since 1880. (Not excluding the 1890 rec.)

The warmest autumn average was 65.8°F in 1881.

The fall precipitation was 12.10 inches, a departure of 0.86 inches, based on a 30-year average.

This is the driest autumn since 2019 when only 6.88 inches was recorded.

The driest of all autumns was 1941 when only 2.24 inches was recorded.

ACON - VA/NC/SC

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

November 2021

Station summary of Climatological Data

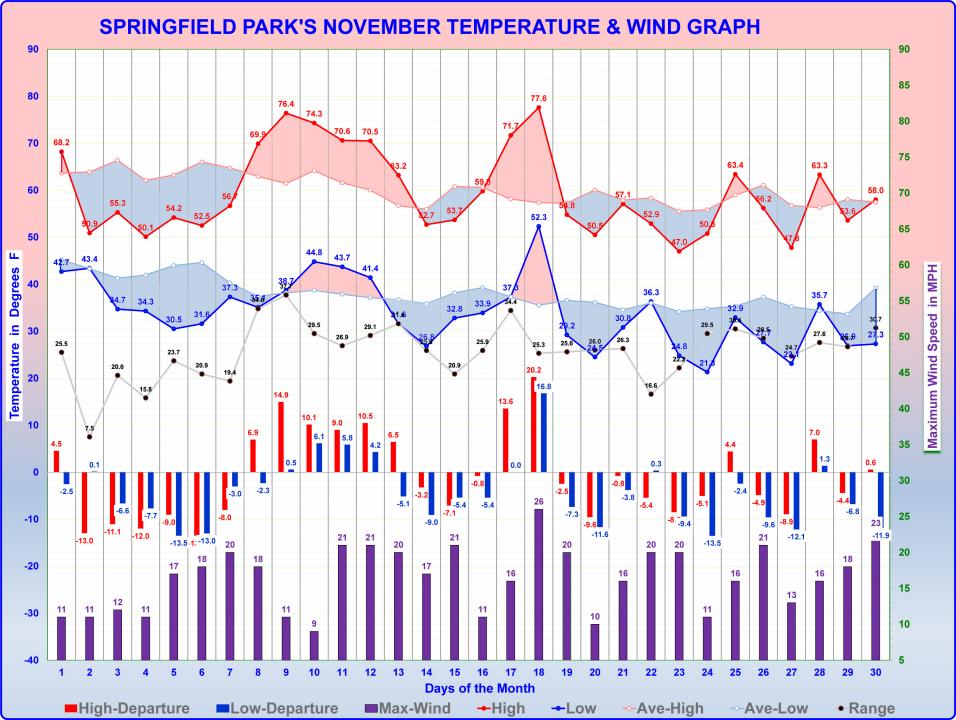
Observer:	Lowell L. Roontz	West Henrico - Gien Allen, VA

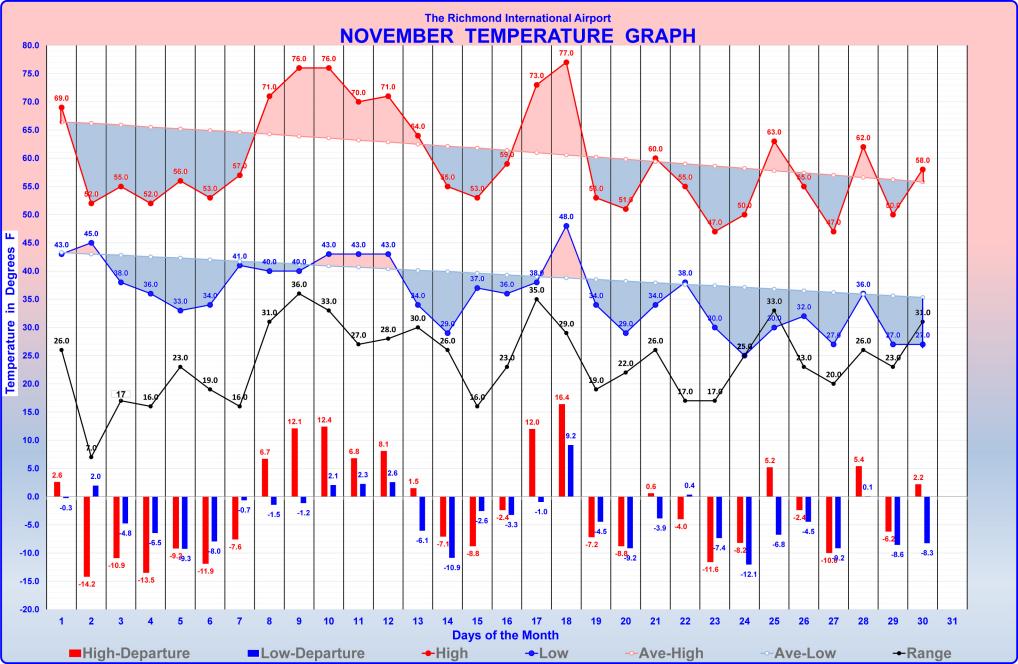
TEMPERATURE °F

Observation Times: Temps Recorded 2400 Precipitation Recorded 2400

PRECIPITATION INCHES

TEMILERATORE I		1	TRESH HATION INCHES	
MEAN MAXIMUM	59.36	Т	MONTH TOTAL	0.51
MEAN MINIMUM	33.78	U	CALENDAR DAY MAX.	0.17
MEAN MONTHLY	46.57	U1	DATE OF MAX.	Nov-12
MEAN TEMP DEP.	-2.5	V	24-HR. PERIOD MAX.	0.17
MAXIMUM	77.6	V1	DATE(s) OF MAX. PD.	Nov-12
DATE(s) OF MAX.	Nov-18	w	# DAYS > = 0.01"	5
MINIMUM	21.3	х	# DAYS > = 1.00"	0
DATE(s) OF MIN.	Nov-24	Υ	YR. TO DATE TOT.	42.52
# DAYS MAX. > = 90°	0		MAX. 1 HR. PRECIP.	0.11
# MAX. < = 32°	0		MAX. 5 MIN PRECIP.	0.04
MIN. < = 32°	13		SNOWFALL INCHES	
MIN. < = 0°	0	Z	DAILY MAXIMUM	0
AVE RELATIVE HUMIDITY	67.0	1	DATE OF MAX.	
WIND MPH		2	DAYS= > TRACE	0
MAX. GUST	26	3	DAYS > = 1.0"	0
DIRECT. OF GUST	SSW	4	MONTHLY TOTAL	0.0
DATE	Nov-18	5	2021- 2022 SEASON'S TOT.	0.0
TIME	10:42		BAROMETER	
NUMBER DAYS WITH -		6	MAXIMUM	30.60
THUNDER	0	6A	DATE	Nov-20
SNOW	0	7	MINIMUM	29.77
GLAZE	0	7A	DATE	Nov-26
ICE PELLETS (SLEET)	0	8	AVE. MONTHLY PRESSURE	30.14
DENSE FOG < = 1/4 MILE	0	CWA	NWS COUNTY WARNING AREA	Henrico
	MAX. GUST DIRECT. OF GUST DATE TIME	MEAN MINIMUM 33.78 MEAN MONTHLY 46.57 MEAN TEMP DEP. -2.5 MAXIMUM 77.6 DATE(s) OF MAX. Nov-18 MINIMUM 21.3 DATE(s) OF MIN. Nov-24 # DAYS MAX. > = 90° 0 # MAX. < = 32°	MEAN MINIMUM 33.78 MEAN MONTHLY 46.57 MEAN TEMP DEP. -2.5 MAXIMUM 77.6 DATE(s) OF MAX. Nov-18 MINIMUM 21.3 DATE(s) OF MIN. Nov-24 # DAYS MAX. > = 90° 0 # MAX. < = 32°	MEAN MINIMUM 33.78 MEAN MONTHLY 46.57 MEAN TEMP DEP. -2.5 MAXIMUM 77.6 DATE(s) OF MAX. Nov-18 MINIMUM 21.3 DATE(s) OF MIN. Nov-24 # DAYS > = 1.00" # DAYS MAX. > = 90° 0 # MAX. < = 32°





S	TATION	(Climatolo ield I	gical)				(Ri	iver S	Station	n, if di	iffere	nt)	MON		2	n		200) 1				FORM	B-91								U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
s	TATE	ICIU I	ulk		COL	JNŢY						+	RIVE		Se	p_	12	202	:1		_	(03-	09)									NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIO NATIONAL WEATHER SERVIC
	Α					rico						_										l										
Т	ME (loca) OF OBS	SERVATIO	ON RIVER		IPERATU ID	RE		RECI MI		TION	١ ١	STA	NDA	RD T	IME	IN U	SE				l			RECORD OF RIVER AND CLIMATOLOGICAL OBSERVATIONS						ATOLOGICAL OBSERVATIONS	
Т	YPE OF I	RIVER GA	GE	ELEVAT GAGE ZI	TION OF	RIVER	FLO	OOD	STA	GE		\neg	NOR	MAL	POC	DL S	TAGE	E				ı										
H	TE	MPERATI	IRF	GAGE Z	ERO		_		_	PREC	IPIT	ATIO	N									H	WFAT	HER (HER (Observation Day) RIVER STAGE						F	Γ
		mir Eros i		24 HR A	MOUNTS	AT OB	Dra	w a s	traight	line (-	j	throug	h hou	rs pre	cipitat	ion wa	s obs	erved.	and a	wav.	y line	_			s occurri			8	т.			
		ENDING		D . 19	ail enths)				(~) thr	ough I	tours p	vecip	tation	proba	ably oc	curre	d unob	serve	d			50			g Gage reading s					Š	
ΙE		VATION		n, mell w, etc wd dredtr	w, ice ets, hail and tent	w, ice ots, hall on ind (h)	\vdash			A.M	Л.		- 1	1001	ν		F	Р.М.				_	belle	92	Thunder	_	magi ds	e of o	ditio	at	nepi	1
DA	MAX	MIN	AT OBSN	Rain Snor	Snow, pellets (ins.an)	Snaw, pellets ice on ground	,	2 3	4	5 6	7 8	9 1	10 11		1 2	3 4	. 5	6 7	8	9 10	11	Fog	8	g	Ĕ	ΞĒ	Dan	If diff	ટ	AM	Ter	REMARKS (SPECIAL OBSERVATIONS, ETC.)
1	86	67	68	0.70	0.0	0	Ħ	Ť	Π	ŤŤ	Ť	Ť	ŤŤ.	1	T	Ť	ĽĬ-	11	Ť		_		$\overline{}$		x	$\overline{}$		\vdash				Only one thunder heard at 1735 but not a storm
2	79	59	59	0.00	0.0	0	П	\top	П	П	\top	\top	П	\top	П	\top	П	\sqcap	\top	П	\top											No clouds seen today and finally a day without
3	79	55	60	0.00	0.0	0	П			П	\top		П		П		П	П		П												Very clear with a deep blue sky and a low DP of
4	82	56	69	0.00	0.0	0	П			П	Т		П	\perp	П		П	П		П	Т											The AM was mostly cloudy and the PM was mostly
5	87	67	77	0.00	0.0	0				\prod			П	Γ	П					П											7	The AM sky had altocumulus and cirrus clouds and
6	85	65	65	0.13	0.0	0	П			-[-]-	- -	-[П		П		П	П		П												The rain ended at 0825 and the sky started to c
7	87	60	71	0.00	0.0	0	Ш			Ш	\perp		Ш		-		Ш	Ш		Ш												Clouds came in at 1230 and was partly cloudy to
8	86	68		0.07	0.0	0	Ш			Ш			Ш	\perp	Ш		Ш	Ш	\perp	Ш					Х							Only 1 thunder was heard at 1324 and one strong
9	75	63	63	0.16	0.0	0	Ц	\perp	LI-	- -	- -	- -	<u> - </u>	\perp	Ц	\perp	Ц	Ш	\perp	Ц	\perp				Х		_					One thunder heard at 0636 and the heaviest rain
10	79	56		0.00	0.0	0	Ш	\perp	Ш	Ш	\perp		Ш	\perp	Ц		Ц	Ш	\perp	Ш	\perp											Today we had the heaviest dew I can remember see
11	81	55	67	0.00	0.0	0	Ш			Ш	\perp		Ш	\perp	Ш		Ш	Ш	\perp	Ш	\perp		\perp									The temp is still below average for Sep11th. The
12	87	64		0.00	0.0	0	1	2 3	4	5 6	7 8	9 1	10 11		1 2	3 4	5	6 7	8	9 10	11		\perp									Warmer and a very clear day but still a low dew
13	92	66		0.00	0.0	0	Ц	\perp	Ш	Ц	\perp	Щ	Ш	_	Ц	\perp	Ц	Ш	1	Ш	\perp						_					A clear day but with some haze from western wild
14	92	68	76	0.00	0.0	0	Ц	\perp	Щ	Н	\perp	Щ	Н	+	Н	\perp	Ц	Ш	4	Ш	\perp		_		\vdash		_					Hazy and hot for mid-September but the PM was by
15	90	69	_	0.00	0.0	0	Н	\perp	Щ	Н	\perp	Щ	Н	4	Н	\perp	Ц	Ш	4	Н	4		_		_		_	_	_			Cirrus clouds came in at 1215 and then a mix of
16	86	71	-	1.08	0.0	0	Н	\perp	Щ	₽	-	- -	Ш	\perp	Н	-	H	-	4	Н	\perp		╙		Х		_	_	_			A TS with the heaviest rain1525 to 1540 and a p
17	82	71	71	Т	0.0	0	Н	\perp	-	Н	\perp	1	Н	+	Н	\perp	Щ	Ш	4	Н	+		┞	_	_	_	_	_				Springfield Park had a trace of precipitation
18	87	68	-	0.00	0.0	0	Н	\perp	Щ	Н	\perp	Щ	Н	4	Н	+	Щ	Ш	4	Н	\perp		╙	_	<u> </u>	_	_	\vdash				The AM sky was mostly cloudy and fog in some are
19	87	67		0.00	0.0	0	Н	\perp	Щ	Н	\perp	Щ	Н	4	Н	\perp	Ц	Ш	4	Ш	\perp		┞		_	_	_	\vdash				A mostly clear day with some cumulus between 12
20	81	63			0.0	0	Ц	\perp	Щ	Н	\perp	Щ	Н	4	Н	\perp	Ц	Ш	4	Н	\perp		╙		_	_	_	_				A east wind today gave Springfield Park the coo
21	84	62			0.0	0	Ш	\perp		Ш	\perp	Ш	Ш	4	Ш	\perp	Ш	Ш	\perp	Ш	\perp		_	_	\vdash	_	_	\vdash				A mostly cloudy day with a breezy PM with a max
22	84	71	_		0.0	0	1	2 3	_4_	5_6_	7_5	ر و_	0_11	1	1 2	3_4	_5_	6 7	8	9 10	_11_		_		_		_	-				Today was a rainy day as a very slow moving col
23	78	57		0.69	0.0	0	- -	- -		H	\perp	Щ	\sqcup	+	\sqcup	+	Н	\sqcup	\perp	Н	\perp		_	_	Х		_					First thunder heard at 0534 from a weak TS to the
24	76	51		_	0.0	0	\sqcup	\perp	\vdash	H	+	1	\coprod	+	H	+	Н	\sqcup	+	\coprod	+		-		_							A very clear deep blue sky all day with a max.
25	77	49	_	_	0.0	0	Н	\perp	Н	H	+	Н.	\sqcup	+	\sqcup	+	Н	+	+	H	+		-		_	_	_		_			The min. temp. on the 25th was the lowest since
26	77	51		_	0.0	0	\sqcup	\perp	\coprod	\sqcup	+	Щ	\coprod	+	\sqcup	+	Н	\sqcup	\perp	Н	\perp	_	_		_	_	_	_				Very heavy dews the past 3 days and another clea
27	81	51	_	_	0.0	0	\vdash	\perp	\vdash	H	+	Щ.	H	+	\sqcup	+	H	+	+	H	+		-			_	_	-	_			Some fibrous cirrus against a deep blue sky in
28	83	60	_	0.01	0.0	0	\sqcup	\perp	\vdash	H	\perp	1	\sqcup	+	╟	- -	\sqcup	11	- -	11	+		_	_	Х	_	_	_	_			Clouds came in at 1145 after a clear AM. First
29	75	55	_	_	0.0	0	H	\perp	\vdash	H	\perp	\vdash	H	+	H	+	\sqcup	+	+	H	+	_	\vdash	_	_	_	_	-			_	A cold front passed around 0300 and the AM was p
30	79	50	58	0.00	0.0	0	₩	+	\vdash	₩	+	+	H	+	H	+	H	+	+	H	+		\vdash		-			-			_	Another clear cool day with low humidity.
31	00.0	61.0	CINA	2 55	_		₩		CHE		AP.	form		light.	Ш	DM44	Щ	ECK	PAR	Ц			-		-				\vdash			
_	82.8	61.2 OF RIVER		3.55			RF	ADIN		CK B	AR (TOF WI	re we	_	ATE		LCH	ECK	BAR	_		Fog Glaze Glaze Winds Winds							<	\times		
					_									+		_					2 2 5 £ ₹ 8 2 2 2 2 2 2 2 2 2						_					
		cted by ro		E. Ice	gorge bel	ow gage	\vdash							+																		
C	. Upper	surface sr	nooth ice	G. Floa	iting ice									\top						SUPERVISING OFFICE				STATION INDEX NO.								
L	. ice gor	ge above	gage	H. Poo	stage																	AKQ Wakefield									44-7998-02	