

PAGE #1		March 2023		West Henrico Co. - Glen Allen Weather Center 37.65537° N. 77.56929° W. - Koontz																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
March 2023	Week Day	TEMPERATURE °F				TEMPERATURE °F				SKY		PRECIPITATION			FROZ. PRECIP.		1st PERIOD			
		MAX.	Time	MIN.	Time	RANGE	MEAN	CHANGE	SOIL	AM	PM	Liquid	1 Hr.	5 Min.	NEW	GROUND	START	END		
Mar-01	Wed	57.8	16:34	38.7	6:43	19.1	48.3	-7.3	49	2	2									
Mar-02	Thu	67.0	13:53	50.3	0:01	16.7	58.7	10.4	49	2	2	0.11	0.06	0.01				0430	0815	
Mar-03	Fri	56.1	22:46	44.2	15:50	11.9	50.2	-8.5	50	2	2	0.20	0.06	0.02				0756	2400	
Mar-04	Sat	64.8	13:43	39.0	23:59	25.8	51.9	1.7	49	0	0									
Mar-05	Sun	67.0	14:03	31.6	6:18	35.4	49.3	-2.6	50	0	0									
Mar-06	Mon	64.9	14:41	36.7	6:42	28.2	50.8	1.5	50	1	1									
Mar-07	Tue	59.3	13:31	38.3	23:19	21.0	48.8	-2.0	50	0	0									
Mar-08	Wed	54.2	14:13	32.2	6:10	22.0	43.2	-5.6	50	0	0									
Mar-09	Thu	59.6	14:18	32.5	6:14	27.1	46.1	2.8	49	0	0									
Mar-10	Fri	48.6	18:36	37.1	23:58	11.5	42.9	-3.2	49	2	2	0.13	0.08	0.04				0435	0555	
Mar-11	Sat	52.2	13:04	34.7	6:25	17.5	43.5	0.6	48	1	2									
Mar-12	Sun	41.2	13:01	30.7	5:02	10.5	36.0	-7.5	48	2	2	0.13	0.05	0.01				1310	2005	
Mar-13	Mon	50.6	14:38	34.8	23:58	15.8	42.7	6.8	47	2	2	0.11	0.02	0.01				0001	0655	
Mar-14	Tue	51.0	14:34	28.6	7:18	22.4	39.8	-2.9	47	0	1									
Mar-15	Wed	56.0	15:40	26.0	5:57	30.0	41.0	1.2	47	0	0									
Mar-16	Thu	65.1	15:54	25.9	7:05	39.2	45.5	4.5	47	0	0									
Mar-17	Fri	63.5	18:11	49.2	6:53	14.3	56.4	10.9	47	2	2	0.12	0.11	0.03				1145	1435	
Mar-18	Sat	58.2	15:09	42.2	8:03	16.0	50.2	-6.2	49	2	1	0.17	0.09	0.01				0005	0525	
Mar-19	Sun	46.1	15:07	30.1	22:24	16.0	38.1	-12.1	50	0	0									
Mar-20	Mon	51.6	15:31	21.2	6:58	30.4	36.4	-1.7	49	0	0									
Mar-21	Tue	64.6	14:54	25.3	6:51	39.3	45.0	8.6	48	0	0									
Mar-22	Wed	65.3	15:39	46.8	7:26	18.5	56.1	11.1	49	2	2									
Mar-23	Thu	81.4	16:51	49.5	4:13	31.9	65.5	9.4	50	2	1									
Mar-24	Fri	74.5	15:25	49.0	23:56	25.5	61.8	-3.7	52	2	2	0.01	0.01	0.01				1830	1930	
Mar-25	Sat	73.9	17:42	47.1	7:33	26.8	60.5	-1.3	53	2	1	0.07	0.05	0.02				0930	1030	
Mar-26	Sun	74.2	15:06	50.5	7:21	23.7	62.4	1.9	53	0	0									
Mar-27	Mon	67.7	18:38	48.9	5:46	18.8	58.3	-4.1	54	2	2	0.01	0.01	0.01				0910	1030	
Mar-28	Tue	62.2	15:37	43.2	6:53	19.0	52.7	-5.6	54	2	2	0.15	0.07	0.01				1810	2400	
Mar-29	Wed	62.0	14:29	37.3	6:58	24.7	49.7	-3.1	54	1	1	0.17	0.14	0.02				0001	0220	
Mar-30	Thu	59.5	15:39	38.3	3:29	21.2	48.9	-0.8	53	0	1									
Mar-31	Fri	68.2	15:58	40.1	3:57	28.1	54.2	5.3	53	2	2	0.17	0.11	0.01				1715	2115	
TOTAL NUMBER		1888		1180		708.3	1534.2	-1.4	1547	33	33	1.55	0.86	0.21	0	0	Col. 26 - 27			
		31	31	31	31	31	31	31	31	31	31	13	13	13	0	0	DAILY AVE RH			
AVERAGE		60.91	15:35	38.06	9:47	22.85	49.49		49.90	1.06	1.06	Ave Tot.	Ave. Max.	Ave. Max.	Ave. Tot.	Ave. Days	65.6	Percent		
NORMALS		60.14		38.01		22.13	49.08		48.70	1.16	1.16	3.66	0.42	0.08	2.7	1.6	64.3	Percent		
DEPARTURES		0.77		0.05		0.72	0.4		1.20	-0.10	-0.09	-2.11	-0.28	-0.04	-2.7	-1.6	1.4	Percent		
Max. Temps. >= 70°F		81.4	Ave.High Max	50.5	Ave.HighMin	39.3	65.5	11.1	54	Whole Day		0.20	0.14	0.04	0	0.0	Precip	24 Hr.		
March 4		Mar-23	81.1	Mar-26	58.2	Mar-21	Mar-23	Mar-22	Mar-27	AVE. 1.06		Mar-03	Mar-29	Mar-10			Amount	0.29		
Ave. 7.4			Dep.		Dep.				Mar-28	Normal 1.16							Date	Mar-17		
Departure -3.4			0.3		-7.7				Mar-29	Depart. -0.10							Date	Mar-18		
Min. Temps. <= 32°F		41.2	Ave.LowMax	21.2	Ave.LowMin	10.5	36.0	-12.1	47	SKY		AM	PM	>= 0.10 INCHES		>= 1.00 INCHES		>= 2.00 INCHES		
March 9		Mar-12	38.9	Mar-20	19.3	Mar-12	Mar-12	Mar-19	Mar-13	CLEAR	13	11	11	10 DAYS		0 DAYS		0 DAYS		
Ave. 10.7			Dep.		Dep.				Mar-14	P.CLO.	3	7	7	HOTTEST		65.5	Highest	Lowest	COOLEST	
Departure -1.7			2.3		2.0				Mar-15	CLO.	15	13	13	DAY		3-23	Mean	Mean	Mean	
Days Max. <=32 °F		0		MAX.	≥85	≥80	≥75	≥70	≥65	≥60	≥55	≥50	≥45	≥40	≥35	≥30	≥25	≥20		
Days Max. >=90°F		0		DAYS	0	1	2	4	13	18	23	28	30	31	31	31	31	31		

PAGE #2		March 2023		West Henrico Co. - Glen Allen Weather Center 37.65537° N. 77.56929° W. - Koontz															
20		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
March 2023	2nd PERIOD		WIND			REL. HUMIDITY		BAROMETRIC PRESSURE				R							
	START	END	RUN	MAX.	TIME	MAX.	MIN.	MAX.	MIN.	AVE.	CHANGE	GLAZE	SLEET	SNOW	FOG		DEW	FROST	
Mar-01			59.5	18	16:59	98	63	30.16	29.82	29.99	0.25						4		
Mar-02			56.1	12	14:07	97	63	29.91	29.69	29.80	-0.19						P		
Mar-03			88.0	19	11:37	99	63	30.00	29.35	29.68	-0.13						N		
Mar-04			101.7	23	4:49	98	37	30.10	29.34	29.72	0.04						P		
Mar-05			42.2	14	13:22	95	27	30.25	30.09	30.17	0.45							2	
Mar-06			62.8	14	14:54	82	38	30.28	29.79	30.04	-0.14						N		
Mar-07			143.5	25	13:19	81	33	30.19	29.69	29.94	-0.09						N		
Mar-08			124.8	25	3:34	70	36	30.29	30.18	30.24	0.29						N		
Mar-09			75.7	17	8:47	76	36	30.29	30.16	30.23	-0.01						N		
Mar-10	0830	0725	64.9	16	9:09	96	65	30.17	29.70	29.94	-0.29						N		
Mar-11			100.3	25	9:34	95	44	30.05	29.75	29.90	-0.04						P		
Mar-12	2335	2400	38.4	10	11:43	96	67	30.07	29.95	30.01	0.11							2	
Mar-13	1945	0211	41.3	16	20:42	97	67	29.95	29.83	29.89	-0.12						P		
Mar-14			122.0	25	14:52	92	35	30.06	29.88	29.97	0.08						N		
Mar-15			102.0	28	15:52	74	17	30.18	30.03	30.11	0.14						N		
Mar-16			87.9	25	12:50	77	14	30.22	29.97	30.10	-0.01							1	
Mar-17	2100	2250	160.2	26	19:31	95	37	29.98	29.67	29.83	-0.27						P		
Mar-18			83.8	17	17:59	96	28	29.97	29.70	29.84	0.01						P		
Mar-19			83.3	19	9:02	62	28	30.30	29.96	30.13	0.30						N		
Mar-20			38.7	14	13:45	84	26	30.43	30.29	30.36	0.23							3	
Mar-21			63.5	14	13:56	83	18	30.47	30.36	30.42	0.05							1	
Mar-22			116.4	21	13:31	76	33	30.42	30.21	30.32	-0.10						1		
Mar-23			178.0	31	16:28	89	45	30.23	29.88	30.06	-0.26						1		
Mar-24			125.5	24	18:42	95	61	30.03	29.85	29.94	-0.11						P		
Mar-25	1145	1300	98.7	20	17:54	97	60	30.00	29.68	29.84	-0.10						P		
Mar-26			68.1	17	14:28	87	25	30.02	29.78	29.90	0.06						2		
Mar-27	2000	2050	50.3	15	17:08	97	73	30.03	29.81	29.92	0.02				1	1	P		
Mar-28			52.4	18	21:40	97	48	30.14	29.98	30.06	0.14						P		
Mar-29			73.8	16	1:06	97	37	30.24	30.10	30.17	0.11						P		
Mar-30			83.7	18	8:22	86	37	30.39	30.14	30.27	0.09						N		
Mar-31			144.3	33	16:03	95	48	30.34	30.14	30.24	-0.02						N		
TOTAL NUMBER	Column 23		2731.8	615		2759	1309	935.16	926.77	930.97	DAYS	0	0	0	1	1	4	5	
	Mar. Wind Run		31	31	31	31	31	31	31	31	Normal	0.7	1.5	2.1	2.9	1.5	6.4	6.6	
AVERAGE	Total	2731.8	88.1	19.8	13:24	89.0	42.2	30.17	29.90	30.03	Depart.	-0.7	-1.5	-2.1	-1.9	-0.5	-2.4	-1.6	
NORMALS	Miles	2586.6	78.4	20.7		85.8	42.5	30.20	29.95	30.08	Rating ▶	0	0	0	1	1	8	9	
Departures	Miles	145.2	9.7	-0.9		3.2	-0.2	-0.03	-0.05	-0.04	Intensity	GLAZE	SLEET	SNOW	FOG	R	Dew	Frost	
MAXIMUM DATES			178.0	33	SSW	99	73	30.47	30.36	30.42	0.45	GLAZE	SLEET	SNOW	FOG	R	Dew	Frost	
			1	Mar-23	Mar-31	16:03	Mar-03	Mar-27	Mar-21	Mar-21	Mar-21								Mar-05
			2																
			3																
Min. Temps. >= 70°F			4			Ave. Max.													
			Dates	38.4	10	39.3	62	14	29.91	29.34	29.68	-0.29							
March 0			1	Mar-12	Mar-12	Dep.	Mar-19	Mar-16	Mar-02	Mar-04	Mar-03	Mar-10							
Ave. 0.1			2			-6.3													
Departure -0.1																			
Days Min. <=32 °F			9	MIN.		≤70	≤65	≤60	≤55	≤50	≤45	≤40	≤35	≤30	≤25	≤20	≤15	≤10	≤05
Days Min >=70°F			0	DAYS		31	31	31	31	30	23	20	12	6	2	0	0	0	0

March - 2023

CLEAR FROM 0750-0920 AND REST OF DAY WAS CLOUDY

CLOUDY ALL DAY EXCEPT FOR AROUND 0915 WITH ABOUT 10 MINUTES OF SUN

LOW REL. HUMIDITY FOR AM AT 63% BEFORE IT RAINED-NO SUN TODAY GLOOMY

VERY CLEAR ALL DAY

A VERY CLEAR DAY EXCEPT SOME THIN CIRRUS AFTER 1545-THICK CIRRUS AFTER 1650

NO DEW BECAUSE OF NORTH WIND AVERAGING AROUND 9 MPH-MOST OF DAY WITH SUN THROUGH CIRRUS

ONLY A FEW SCATTERED CUMULUS DURING AFTERNOON SKY

VERY LOW REL. HUMIDITY FOR AM AT 56%-MOSTLY CLEAR ALL DAY

VERY CLEAR AM SKY WITH SCATTERED CIRRUS FROM 1600-1730 NOT ENOUGH FOR A PC DAY

AM REL. HUMIDITY 79% NO SUN AND GLOOMY

AM WAS ABOUT 60% CLOUDY

LIGHT FROST ON MIRROR-SNOW CAME AS CLOSE AS FARMVILLE

CLOUDY COLD DAY NO SUN

COLD WINDY DAY

COLD WINDY DAY BUT A VERY CLEAR DAY

A LITTLE EARLY AM CLOUDS

CLOUDY TO 1100 THEN SUN CAME THROUGH CIRRUS MOST OF THE REST OF THE DAY

A VERY CLEAR DAY EXCEPT SOME

A VERY CLEAR BUT COLD DAY

LIGHT FROST-MOSTLY CLEAR AL

ONLY SUN WAS FROM 1745-1900

SOME LATE SUN MADE FOR A PC AFTERNOON

ANY SUN TODAY WAS THROUGH CLOUDS

SUN CAME OUT AT 1530 MAKING FOR A PC AFTERNOON-3RD PD. OF PRECIP. 2

A FEW CLOUDS JUST IN THE AFTERNOON BUT NOT ENOUGH TO WARRANT PC

FIRST TS OF 2023 LASTED 2011-2025 RATED 1-1-1-LATE DAY SUN PM SKY EST. 70% CLOUDY

CLOUDY ALL DAY WITH SOME SUN THROUGH CLOUDS

COOL DAY WITH NORTH WIND 18 MPH AND SOME CLOUDS I

EXTENSION OF LENGTHY DAILY REMARKS

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 2023

March
2023

March-2023

The Springfield Park Station had 9 Records or Record Ties in March

1

2

The minimum temperature on the 2nd was 50.3°F, a new 13-year warm daily minimum temperature record for the date - the old record was 40.9°F in 2018.

3

4

The minimum temperature on the 4th was 45.2°F, a new 13-year warm daily minimum temperature record for the date - the old record was 40.9°F in 2020.

5

The daily temperature range on the 5th was 35.4°F, a new 14-year HIGH daily temperature range record for the date - the old record was 33°F in 2009.

The maximum temperature on the 5th was 67°F, a new 14-year daily HIGH maximum temperature record for the date - the old record was 66.3°F in 2022.

6

7

8

9

10

The daily temperature range on the 10th was 11.5°F, a new 14-year LOW daily temperature range record for the date - the old record was 12.3°F in 2020.

11

12

13

14

15

16

The daily temperature range on the 16th was 39.2°F, a new 14-year HIGH daily temperature range record for the date - the old record was 36.5°F in 2015.

17

18

19

20

The minimum temperature on the 20th was 21.2 14-year LOW daily minimum temperature record for the date - the old record was 28.2°F in 2019.

21

The minimum temperature on the 21st was 25.3 14-year LOW daily minimum temperature record for the date - the old record was 26°F in 2009.

The daily temperature range on the 21st was 39.3°F, a new 14-year HIGH daily temperature range record for the date - the old record was 37.1°F in 2022.

22

23

24

25

26

27

28

29

30

31

March 2023 - Springfield Park, Glen Allen, VA

March was a little warmer than average but below average precipitation. The mean temperature for March was 49.5 degrees F which was a departure of 0.4 degrees F. Only 9 fourteen-year daily records were recorded for March. The 1.55 inches of precipitation for March was a -2.11-inch departure on the 14-year average and the 2nd driest on record and 0.31 inches more than the Airport.

Springfield Park had 9 days that the minimum temperature was less than or equal to 32°F. The average is 10.7 days. The 81.4 degrees F on the 23rd was the warmest temp. for this month. The minimum temperature was 21.2 degrees F on the 20th and was the 8th lowest on record for March and damaged early spring plants. The maximum daily temp. range for March was 36.0 degrees F on the 12th. The average ground temperature at one foot for the month was 49.9°F, a 1.2 degrees F departure.

The most precipitation in a one day was only 0.20 inches on the 3th and tied for the record minimum. The 0.14 inches of rain in one hour on the 29th set a new minimum rainfall intensity record. There were only 13 days with measurable precipitation which was 3rd most for March. March was a little clearer than average. The average relative humidity was 65.6 percent, a departure of 1.4 percent.

The maximum wind gust during March was 33mph which occurred on the 31st at 1803 hours from the SSW. The wind run for March was 2731.8 miles making this March the 6th windiest in the past 14 years.

The highest barometer was 30.47 inches on the 21st which was the 4th lowest for March. The lowest reading was only 29.34 inches on the 4th which was the lowest since 2018. There were no days with snow in March.

ACON - VA/NC/SC

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

March 2023

Station summary of Climatological Data

Observer: Lowell L. Koontz Acon Station ID: West Henrico - Glen Allen, VA

Observation Times: Temps Recorded 2400 Precipitation Recorded 2400

TEMPERATURE °F

A	MEAN MAXIMUM	60.91
B	MEAN MINIMUM	38.06
C	MEAN MONTHLY	49.49
C1	MEAN TEMP DEP.	0.4
D	MAXIMUM	81.4
E	DATE(s) OF MAX.	Mar-23
F	MINIMUM	21.2
G	DATE(s) OF MIN.	Mar-20
H	# DAYS MAX. > = 90°	0
I	# MAX. < = 32°	0
J	MIN. < = 32°	9
K	MIN. < = 0°	0
K1	AVE RELATIVE HUMIDITY	65.6

WIND MPH

L	MAX. GUST	33
M	DIRECT. OF GUST	SSW
N	DATE	Mar-31
	TIME	16:03

NUMBER DAYS WITH -

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

PRECIPITATION INCHES

T	MONTH TOTAL	1.55
U	CALENDAR DAY MAX.	0.20
U1	DATE OF MAX.	Mar-03
V	24-HR. PERIOD MAX.	0.29
V1	DATE(s) OF MAX. PD.	17 th & 18 th
W	# DAYS > = 0.01"	13
X	# DAYS > = 1.00"	0
Y	YR. TO DATE TOT.	6.97
	MAX. 1 HR. PRECIP.	0.14
	MAX. 5 MIN PRECIP.	0.04

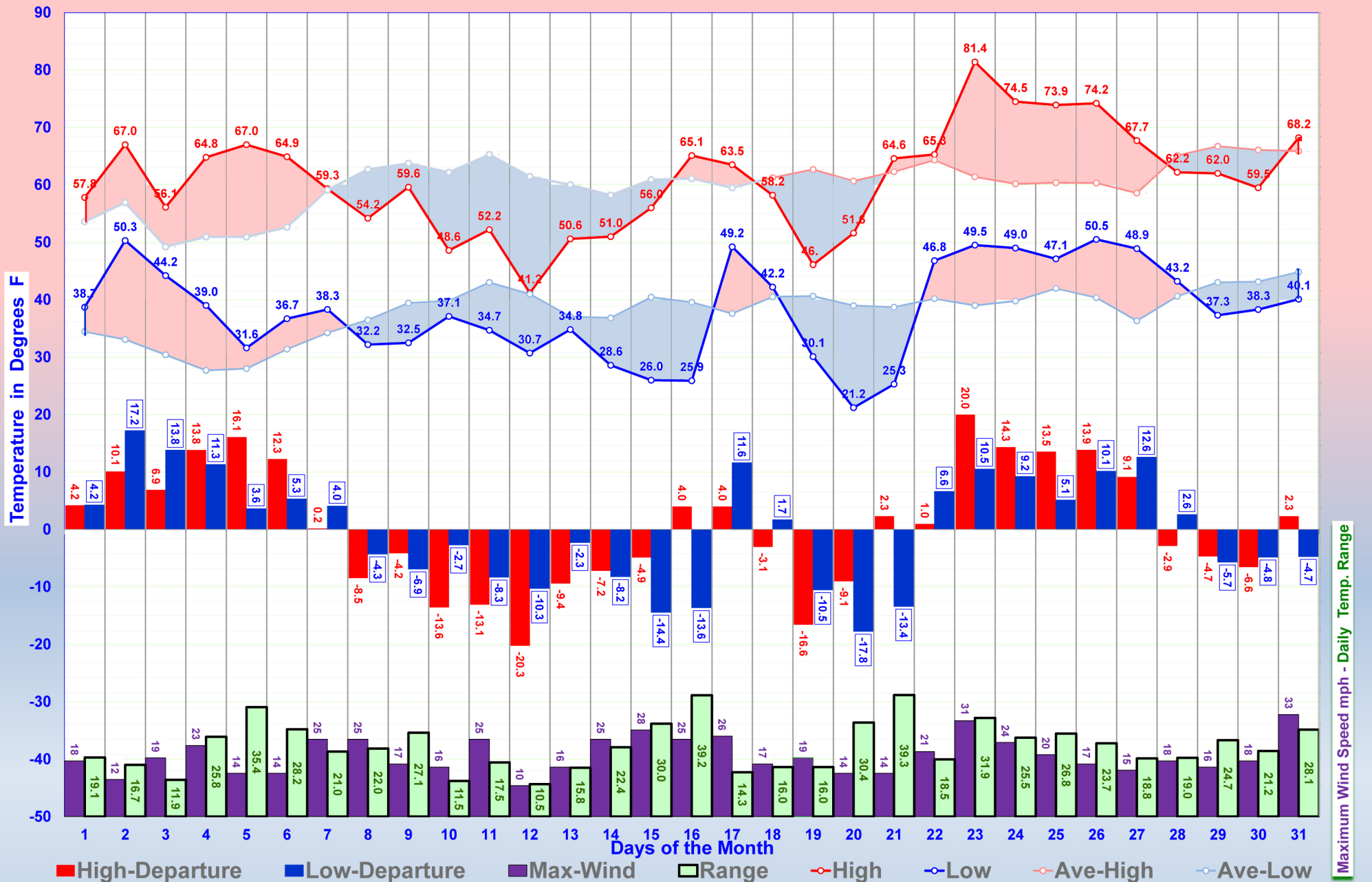
SNOWFALL INCHES

Z	DAILY MAXIMUM	0
1	DATE OF MAX.	
2	DAYS= > TRACE	1
3	DAYS > = 1.0"	0
4	MONTHLY TOTAL	0
5	2022 - 2023 SEASON'S TOT.	0.4

BAROMETER

6	MAXIMUM	30.47
6A	DATE	Mar-21
7	MINIMUM	29.34
7A	DATE	Mar-04
8	AVE. MONTHLY PRESSURE	30.03
CWA	NWS COUNTY WARNING AREA	Henrico

SPRINGFIELD PARK'S MARCH TEMPERATURE & WIND GRAPH



The Richmond International Airport

MARCH TEMPERATURE GRAPH

