

PAGE #1		Oct 2020 West Henrico Co. - Glen Allen Weather Center 37.6554° N. 77.5692° W. - Koontz																						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19						
Oct 2020	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						
Oct-01	Thu	78.9	14:02	53.8	7:03	25.1	66.4	3.5	69	0	0	T	T	T			2310	2335						
Oct-02	Fri	70.6	14:23	51.1	23:59	19.5	60.9	-5.5	69	1	1	0.08	0.07	0.01			0035	0650						
Oct-03	Sat	69.1	14:36	45.1	4:23	24.0	57.1	-3.8	68	0	0													
Oct-04	Sun	69.2	14:13	43.5	7:15	25.7	56.4	-0.7	67	0	0													
Oct-05	Mon	71.1	14:48	48.4	7:17	22.7	59.8	3.4	66	0	1													
Oct-06	Tue	75.0	15:16	45.0	7:07	30.0	60.0	0.3	66	0	0													
Oct-07	Wed	80.8	14:56	56.1	6:28	24.7	68.5	8.5	66	0	0													
Oct-08	Thu	76.0	14:51	52.1	23:58	23.9	64.1	-4.4	66	0	0													
Oct-09	Fri	72.7	13:59	46.3	7:18	26.4	59.5	-4.6	66	2	2													
Oct-10	Sat	67.5	15:08	61.5	0:01	6.0	64.5	5.0	66	2	2	0.35	0.09	0.01			0700	1510						
Oct-11	Sun	71.0	12:30	65.5	2:15	5.5	68.3	3.8	66	2	2	0.96	0.23	0.03			0001	0315						
Oct-12	Mon	69.2	14:44	59.0	23:22	10.2	64.1	-4.2	67	2	2	0.41	0.29	0.07			0001	0920						
Oct-13	Tue	70.3	15:46	52.4	23:30	17.9	61.4	-2.8	67	2	2													
Oct-14	Wed	74.3	14:49	44.7	7:30	29.6	59.5	-1.8	66	0	0													
Oct-15	Thu	76.5	14:42	52.6	4:56	23.9	64.6	5.1	65	0	0													
Oct-16	Fri	66.5	0:24	50.2	23:44	16.3	58.4	-6.2	66	2	2	1.55	0.88	0.17			0425	1440						
Oct-17	Sat	62.9	13:47	41.3	7:21	21.6	52.1	-6.3	64	0	0													
Oct-18	Sun	67.0	13:06	38.0	7:23	29.0	52.5	0.4	63	1	2													
Oct-19	Mon	75.2	15:39	49.7	6:43	25.5	62.5	10.0	63	2	1													
Oct-20	Tue	77.7	15:11	54.0	2:59	23.7	65.9	3.4	63	2	0													
Oct-21	Wed	79.6	16:05	61.4	0:38	18.2	70.5	4.7	64	2	1													
Oct-22	Thu	83.3	13:12	58.7	6:44	24.6	71.0	0.5	65	0	0													
Oct-23	Fri	80.5	15:02	57.2	7:03	23.3	68.9	-2.2	65	1	1													
Oct-24	Sat	84.3	14:51	59.7	7:35	24.6	72.0	3.2	65	0	2	T	T	T			1940	1945						
Oct-25	Sun	63.1	0:01	48.1	19:09	15.0	55.6	-16.4	66	2	2	0.54	0.10	0.03			0025	0650						
Oct-26	Mon	63.8	16:10	48.1	0:29	15.7	56.0	0.4	64	2	2	0.02	0.01	T			0100	0110						
Oct-27	Tue	64.6	14:03	56.6	7:06	8.0	60.6	4.6	63	2	2													
Oct-28	Wed	72.9	13:57	60.5	0:44	12.4	66.7	6.1	64	2	2	T	T	T			2310	2315						
Oct-29	Thu	75.0	14:45	53.3	23:57	21.7	64.2	-2.6	64	2	2	1.97	0.48	0.11			0125	0645						
Oct-30	Fri	62.8	14:01	47.0	23:59	15.8	54.9	-9.3	64	2	2	0.76	0.54	0.09			0001	0605						
Oct-31	Sat	58.0	14:37	38.0	7:45	20.0	48.0	-6.9	63	1	1													
TOTAL		2229.4		1598.9		630.5	1914.2	-14.9	2026	34	34	6.64	2.69	0.52	0	0	Col.26-27							
NUMBER		31		31		31	31	31	31	31	31	9	9	8	0	0	DAILY AVE RH							
AVERAGE		71.92	13:39	51.58	9:59	20.34	61.75		65.35	1.10	1.10	Ave. Tot.	Ave. Max	Ave. Max	Ave. Tot.	Ave. Days	80.5	Percent						
NORMAL		71.19		50.37		21.03	60.52		65.11	0.99	1.03	4.37	0.72	0.15	0.0	0.0	74.7	Percent						
DEPARTURES		0.73		1.21		-0.69	1.23		0.24	0.10	0.07	2.27	1.97	0.37	0.0	0.0	5.8	Percent						
Max. Temps. >= 70°F		84.3	Ave.HighMax	65.5	Ave.HighMin	30	72.0	10.0	69.0	Whole Day		1.97	0.88	0.17	0.0	0.0	Precip	24 Hr.						
2020 19		Oct-24	87.1	Oct-11	67.3	Oct-06	Oct-24	Oct-19	Oct-01	Ave. 1.10		Oct-29	Oct-16	Oct-16			Amount	Oct 29						
Ave. 17.7			Dep.		Dep.					Normal 1.01														
Departure 1.3			-2.8		-1.8					Depart. 0.09														
Min. Temps. <= 32°F		58.0	Ave.LowMax	38.0	Ave.LowMin	5.5	48.0	-16.4	63.0	SKY		AM		PM	>= 0.10 INCHES		>= 1.00 INCHES		>= 2.00 INCHES					
2020 0		Oct-31	54.0	Oct-18	33.8	Oct-11	Oct-31	Oct-25	Oct-18	CLEAR		12		11	7 DAYS		2 DAYS		0 DAYS					
Ave. 0.5			Dep.		Dep.					PT. CLO.		4		6	HOTTEST 72.0		Highest	Lowest	COOLEST 48					
Departure -0.5			4.0		4.2					CLOUDY		15		14	DAY 10-24		Mean	Mean	DAY 10-31					
Days Max. <=32 °F		0		MAX.	>=90	>=85	>=80	>=75	>=70	>=65	>=60	>=55	>=50	>=45	>=40	>=35	>=32	>=30						
Days Max. >=90°F		0		DAYS	0	0	5	12	19	26	30	31	31	31	31	31	31	31						

20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38	
Oct 2020		2nd PERIOD		WIND			REL. HUMIDITY		BAROMETRIC PRESSURE				R								DEW		FROST														
		START	END	RUN	MAX.	TIME	MAX.	MIN.	MAX.	MIN.	AVE.	CHANGE	GLAZE	SLEET	SNOW	FOG																					
Oct-01				76.9	19	23:13	95	52	30.02	29.89	29.96	0.16																					4				
Oct-02				34.6	15	0:01	97	44	30.17	29.97	30.07	0.12																				P					
Oct-03				41.9	12	10:47	95	45	30.28	30.17	30.23	0.16																				4					
Oct-04				26.7	12	12:40	98	46	30.27	30.09	30.18	-0.05																				5					
Oct-05				35.5	13	13:49	99	49	30.22	30.10	30.16	-0.02																				4					
Oct-06				53.6	17	10:28	99	53	30.21	30.02	30.12	-0.04																				5					
Oct-07				103.4	23	16:55	96	49	30.03	29.80	29.92	-0.20																				4					
Oct-08				45.8	15	10:04	97	45	30.21	29.89	30.05	0.14																				4					
Oct-09				25.9	11	16:11	98	44	30.30	30.17	30.24	0.18																				4					
Oct-10		1520	2400	64.2	13	5:26	98	81	30.17	30.05	30.11	-0.13																				N					
Oct-11		0440	1120	47.3	14	21:33	100	91	30.07	29.96	30.02	-0.09																			2		P				
Oct-12		1050	1250	98.5	17	16:14	99	97	29.96	29.87	29.92	-0.10																				P					
Oct-13				33.4	10	2:32	99	78	30.02	29.90	29.96	0.05																				P					
Oct-14				31.8	12	14:04	100	47	30.13	30.02	30.08	0.11																				5					
Oct-15				101.3	21	14:24	93	63	30.07	29.95	30.01	-0.07																				3					
Oct-16		1920	2155	70.0	22	7:10	97	81	30.21	29.97	30.09	0.08																				P					
Oct-17				28.1	13	11:27	99	41	30.41	30.19	30.30	0.21																				P					
Oct-18				14.7	9	12:20	99	62	30.43	30.31	30.37	0.07																				4	1				
Oct-19				23.3	11	14:07	100	60	30.33	30.22	30.28	-0.09																				4					
Oct-20				26.0	11	16:13	100	61	30.27	30.19	30.23	-0.04																				5					
Oct-21				40.3	13	13:58	100	73	30.31	30.19	30.25	0.02																				5					
Oct-22				31.0	11	18:35	99	54	30.26	30.18	30.22	-0.03																				5					
Oct-23				35.5	12	19:59	99	54	30.22	30.04	30.13	-0.09																				5					
Oct-24		2130	2140	54.0	16	21:17	98	53	30.05	29.91	29.98	-0.15																				5					
Oct-25		0830	1310	109.3	15	8:00	98	70	30.19	30.05	30.12	0.14																				P					
Oct-26		0648	0800	47.7	11	0:10	99	84	30.19	30.09	30.14	0.02																				P					
Oct-27				30.0	10	18:55	100	86	30.23	30.14	30.19	0.05																				5					
Oct-28				87.5	14	10:42	99	83	30.16	29.95	30.06	-0.13																				5					
Oct-29		0854	1530	97.0	34	14:49	99	90	29.97	29.32	29.65	-0.41																				1	P				
Oct-30				102.0	21	3:57	98	61	30.33	29.53	29.93	0.29																				P					
Oct-31				52.5	13	0:55	96	52	30.54	30.32	30.43	0.50																				3	1				
TOTAL		Column 23		1669.7	460		3043	1949	936.23	930.45	933.34	TOTAL	0	0	0	7	1	20	2																		
NUMBER		Mar. Wind Run		31	31	31	31	31	31	31	31	NORMAL	0.0	0.1	0.0	2.1	1.2	19.3	2.3																		
AVERAGE		Total	1669.7	53.9	14.84	12:17	98.2	62.9	30.20	30.01	30.11	DEPART.	0.0	-0.1	0.0	4.9	-0.2	0.8	-0.3																		
NORMAL		Miles	1626.0	52.6	16.9		95.5	53.7	30.02	29.87	30.05	Rating ▶	0	0	0	16	1	88	2																		
Departures		Miles	43.7	1.3	-2.1		2.7	-9.1	0.18	0.14	0.05	Intensity	GLAZE	SLEET	SNOW	FOG	R	Dew	Frost																		
MAXIMUM DATES		Dates	109.3	34	SW	100	97	30.54	30.32	30.43	0.50	5. Very Heavy 4. Heavy-Unusual 3. Moderate - Ave. 2. Light - >= Ave. 1. Very Light - Slight - Trace M - Event with intensity missing								N- None No Dew Obs. P- Precip. prevent obs.																	
		1	Oct-25	Oct-29	14:49	Oct-11	Oct-12	Oct-31	Oct-31	Oct-31	Oct-31																										
		2				Oct-14																															
		3				Oct-19																															
Min. Temps. >= 70°F																																					
2020		0																																			
Ave.		0.5																																			
Departure		-0.5																																			
Days Min. <=32 °F		0		MIN.	<=75	<=70	<=65	<=60	<=55	<=50	<=45	<=40	<=35	<=32	<=30	<=25																					
Days Min >=70°F		0		DAYS	31	31	30	27	21	14	7	2	0	0	0	0																					

REMARKS FOR THE MONTH

October - 2020

Oct-01	CLOUDINESS TODAY FROM APPROACHING COLD FRONT STARTED AT 1700 BUT WAS SO LATE IN PM THE SKY AVERAGED CLEAR
Oct-02	BEAUTIFUL FALL DAY AND PC WITH CUMULUS AND A DEEP BLUE SKY
Oct-03	AM WAS 95% CLEAR AND PM WAS 85-90% CLEAR-CUMULUS FROM 1400-1645 BUT SCATTERED
Oct-04	BEAUTIFUL FALL DAY
Oct-05	FIRST CUMULUS CLOUDS CAME IN AT 1115 AND PM WAS PC WITH CIRROSTRATUS 30-35% CLOUDY
Oct-06	VERY CLEAR AM THEN CUMULUS FROM 1320-1430 THEN DECREASING CLOUDS AND BECAME VERY CLEAR AFTER 1530 AND WARMER TODAY
Oct-07	NO CLOUDS ALL DAY
Oct-08	A WEAK COLD FRONT PASSED AT 0300-VERY CLEAR DAY WITH LOW RELATIVE HUMIDITY OF 45%
Oct-09	AROUND 0900 SUN DOGS SEEN LEFT AND RIGHT OF SUN-SUNLIGHT THROUGH A CIRRUS VEIL MOST OF DAY
Oct-10	ALL DAY LIGHT RAIN
Oct-11	3RD PD. OF PRECIP. 1300-2400-HEAVIEST FOG AT 0745-RAIN AGAIN TODAY MOST OF DAY
Oct-12	3RD PD. OF PRECIP. 1325-1555, 4TH PD. 1720-1810-DRIZZLE MUCH OF DAY THAT GAVE ONLY 0.08 INCHES
Oct-13	CLOUDY AM WITH A PM WITH SOME BROKEN CLOUDINESS BUT CLEARING AROUND SUNSET
Oct-14	PROBABLY THE HEAVIEST DEW SEEN IN THE YEAR 2020-VERY CLEAR DAY-FIRST TIME RH READ 100% WITHOUT A FOG
Oct-15	FIRST CUMULUS CLOUDS CAME IN AROUND NOON-AM WAS VERY CLEAR-CLOUDS INCREASED IN PM AND PM EST. 20-30% CLOUDY
Oct-16	A STRONG COLD FRONT PASSED AT 0645
Oct-17	CONDENSATION ON VINYL BUT PRECIP. AT NIGHT MADE DEW RATING DIFFICULT-A VERY CLEAR DAY
Oct-18	VERY HEAVY DEW AND MUCH CLOUDIER TODAY-A TOUCH OF FROST SEEN ONLY ON ROOFS THIS AM-MOSTLY CLOUDY AFTER 1300
Oct-19	HEAVIEST FOG OCCURRED AT 0845 VISIBILITY CUT TO ABOUT 0.4 MILES AND CLEARED BY 0945-CLOUDY AM AND PARTLY CLOUDY PM
Oct-20	VERY CALM NIGHT FROM MIDNIGHT TO 0500-FOG AND VERY HEAVY DEW TRIPPED RAIN GAUGE 0.01 INCHES WHICH WAS CLEARED FROM INSTRUMENT-HEAVIEST FOG AT 0830 THAT CLEARED
Oct-21	MODERATE FOG-LOWEST VISIBILITY AT 0800 AND CLEARING BY 0930 BUT CLOUDS REMAINED TO 1330-PM WAS PC
Oct-22	VERY LIGHT FOG AROUND 0700 THEN CLEARING EXCEPT FOR A PERIOD OF PC SKIES FROM 1230-1400
Oct-23	SPRINGFIELD PARK WAS ON THE EDGE OF A FOG COMING IN FROM SE-PC MOST OF DAY-AM EST. 55% CLOUDY - PM EST. 45% CLOUDY
Oct-24	AM WAS MOSTLY SUNNY BUT CLOUDS CAME IN AT 1415 AND PM WAS CLOUDY AS A COLD FRONT WAS APPROACHING FROM WEST
Oct-25	3RD PD. OF LIGHT RAIN FROM 1420-1430, 4TH PD. OF RAIN 1525-1810, 5TH PD. OF RAIN 2030-2035, 6TH PD. 2210-2320-VERY CHILLY DAY AFTER A WARM YESTERDAY
Oct-26	3RD PD. OF PRECIP. 0830-0905-CLOUDY MOST OF DAY WITH A LITTLE SUN FROM 1515-1715
Oct-27	FOG HEAVIEST FROM 0745-0800 THEN CLEARING BY 0940-DEW WAS SO HEAVY IT TRIPPED RAIN GAUGE AND AMOUNT HAD TO BE REMOVED
Oct-28	WARMER THAN AVERAGE THAN ABOUT 5 DEGREES-CLOUDY ALL DAY BUT SOME AM SUN THROUGH CLOUDS-REMNANTS OF ZETA EXPECTED TOMORROW
Oct-29	3RD PD. OF PRECIP. 2150-2400-ONE THUNDER HEARD AT 2215-TS RATED 1-2-3-CONVECTION IN AREA LED TO ONE OF HEAVIEST RAIN TOTALS REPORTED
Oct-30	RAIN TOTAL FOR PAST 2 DAYS IS 2.73 INCHES-FLOOD WARNING PUT OUT FOR JAMES RIVER
Oct-31	SLIGHTEST TR OF FROST ON ROOFS & LESS FROST THAN ON THE 18TH.-NO KILLING THIS FALL.- IT AVERAGED PT. CLOUDY ALL DAY WITH ALTO CUMULUS IN THE AM & STRACUMULUS IN PM.
DATE	EXTENSION OF LENGTHY DAILY REMARKS
Oct-20	AT 0830-HEAVY FOG THAT CLEARED BY 1000 AND A CLEAR SKY BY NOON
<p>The daily records for the month are listed on page # 4 and not found in the remarks.</p> <p>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</p> <p>Rules for making Observations in 2020</p>	

The Glen Allen Station had 11 Records or Record Ties for October 2020

[illegible]

October 2020

Springfield Park, Glen Allen, VA

October had only 9 days with measurable precip but was the wettest October on record with 6.64 inches and a 2.27 inch departure. August was also the wettest on record and Springfield Park already has 50.13 inches for 2020. The remnants of Zeta gave 1.43 inches on the 29th and a night-time cold front with thunder added an additional 1.30 for a total of 2.73 inches. From 4 AM of the 29 to AM of the 30th 2.55 inches was recorded in 24 hours, the 3rd greatest for October in 24 hours.

The highest temperature for the month was only 84.3°F on the 24th which was a -2.8°F departure in the past 12 years. The average maximum temperature was 71.9°F, a 0.7°F departure, and the average minimum temperature was 51.6°F which was a 1.2°F departure. The monthly mean temperature was 61.8°F, a departure of 1.2°F, and was the 5th warmest October on record in the past 12 years. The lowest minimum temperature was 38.0°F on the 16th and 31st a 4.2°F departure with a little frost on roofs but no killing frost. The average temperature range of 20.3°F for October was a -0.7°F departure.

The average relative humidity was 80.5% a new record for October and a departure of 5.8%. On the 12th the relative humidity never fell below 97% during a rainy day.

The maximum wind gust of 34 mph was recorded from the remnants of Zeta on the 29th.

Richmond International Airport

The Richmond International Airport's average mean temperature was 62.3°F a departure of 2.6°F and only 18 Octobers have been warmer since 1897. The average maximum was 72.2°F, a 1.2°F departure, and the average minimum was 52.4°F which was a 4.1°F departure and was the 14th warmest since 1897. October's highest temperature was 84°F on the 24th. The warmest day was the 21st with a daily mean of 72.5°F. Last year the maximum for the month was 98°F on the 2nd. October had 21 days the high temperature was equal to or higher than 70°F. The lowest maximum temperature for October was 56°F on the 31st which was also the coolest October day with a daily mean of 48.0°F. The lowest monthly minimum temp. was 40°F on the 31st. Only three Octobers since 1897 have had a warmer monthly minimum greater than 40°F for October. The highest temperature range for October was only 29°F on the 6th. Only four Octobers since 1897 have had a lower maximum temperature for the month.

The Richmond International Airport had only one daily record for the month. (Richmond Records since 1897). The minimum temperature range was only 4°F on the 11th tying the minimum temperature range for the date; the previous years for this range were 1952 and 1903.

The Airport had 5.63 inches of precipitation, a departure of 2.65 inches, with 8 days of measurable precipitation.

ACON - VA/NC/SC

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

October 2020

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	71.92
B	MEAN MINIMUM	51.58
C	MEAN MONTHLY	61.75
C1	MEAN TEMP DEP.	1.2
D	MAXIMUM	84.3
E	DATE(s) OF MAX.	Oct-24
F	MINIMUM	38.0
G	DATE(s) OF MIN.	Oct-18
H	# DAYS MAX. > = 90°	0
I	# MAX. < = 32°	0
J	MIN. < = 32°	0
K	MIN. < = 0°	0
K1	AVE RELATIVE HUMIDITY	80.5

WIND MPH

L	MAX. GUST	34
M	DIRECT. OF GUST	SW
N	DATE	Oct-29
	TIME	14:49

NUMBER DAYS WITH -

O	THUNDER	1
P	HAIL	0
Q	GLAZE	0
R	ICE PELLETS (SLEET)	0
R1	DENSE FOG < = 1/4 MILE	3

PRECIPITATION INCHES

T	MONTH TOTAL	6.64
U	CALENDAR DAY MAX.	1.97
U1	DATE OF MAX.	Oct-29
V	24-HR. PERIOD MAX.	2.55
V1	DATE(s) OF MAX. PD.	29 th & 30 th
W	# DAYS > = 0.01"	9
X	# DAYS > = 1.00"	2
Y	YR. TO DATE TOT.	50.13
	MAX. 1 HR. PRECIP.	0.88
	MAX. 5 MIN PRECIP.	0.17

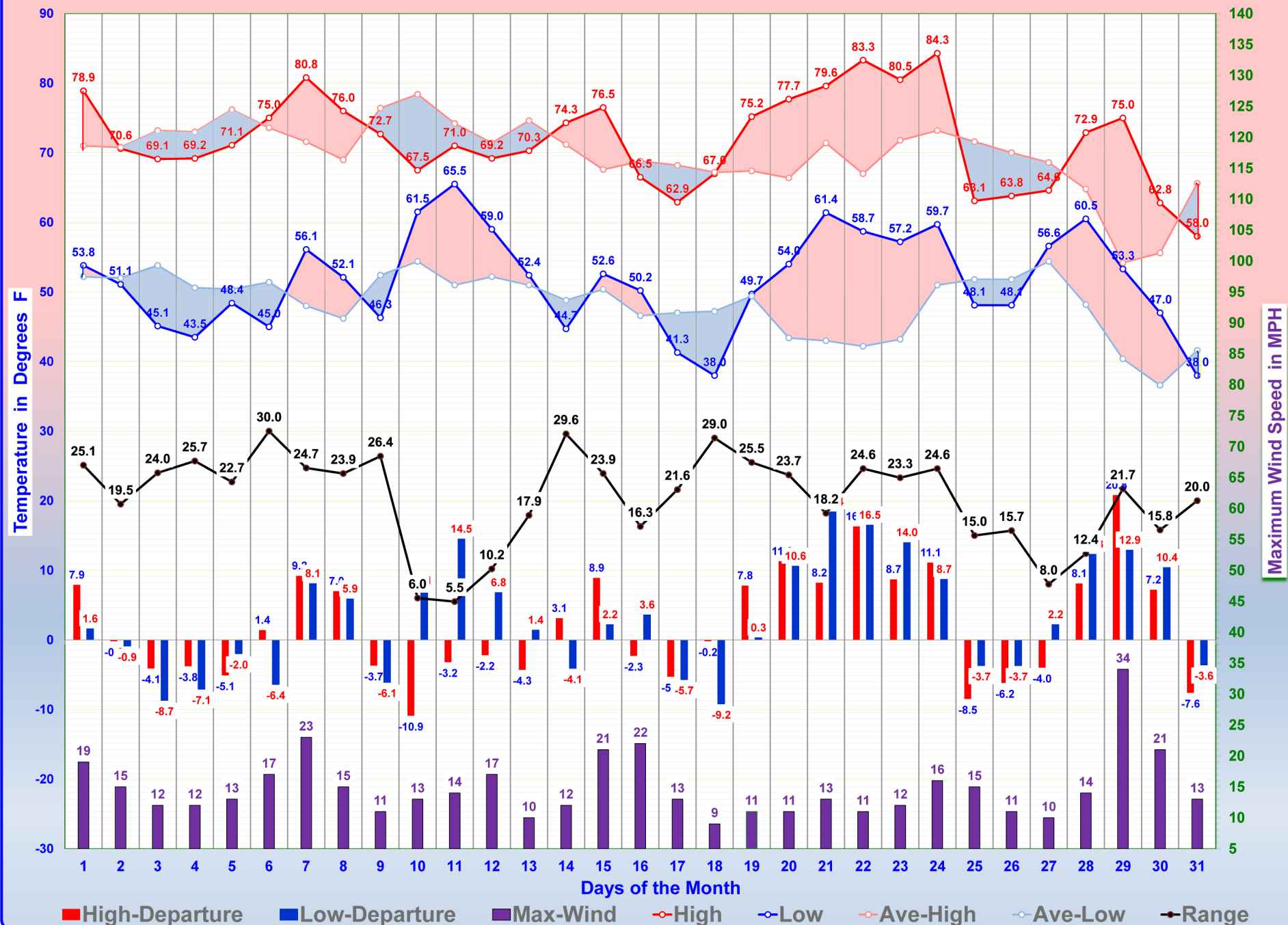
SNOWFALL INCHES

Z	DAILY MAXIMUM	0.0
1	DATE OF MAX.	
2	DAYS= > TRACE	0
3	DAYS > = 1.0"	0
4	MONTHLY TOTAL	0.0
5	2020 - 2021 SEASON'S TOT.	0.0

BAROMETER

6	MAXIMUM	30.54
6A	DATE	Oct-31
7	MINIMUM	29.32
7A	DATE	Oct-29
8	AVE. MONTHLY PRESSURE	30.11
CWA	NWS COUNTY WARNING AREA	Henrico

SPRINGFIELD PARK'S OCTOBER TEMPERATURE & WIND GRAPH



The Richmond International Airport OCTOBER TEMPERATURE GRAPH

