

PAGE #1		Mar 2019		West Henrico Co. - Glen Allen Weather Center 37.65537° N. 77.56929° W. - Koontz														
		TEMPERATURE °F				TEMPERATURE °F				SKY		PRECIPITATION			FROZ. PRECIP.		1st PERIOD	
Mar 2019	Week Day	MAX.	Time	MIN.	Time	RANGE	MEAN	CHANGE	SOIL	AM	PM	Liquid	1 Hr.	5 Min.	NEW	GROUND	START	END
Mar-01	Fri	40.4	0:01	35.0	23:55	5.4	37.7	-9.8	46	2	2	0.78	0.34	0.04			0005	1055
Mar-02	Sat	48.9	15:51	34.6	3:16	14.3	41.8	4.1	45	2	2	0.01	0.01	T			0150	0205
Mar-03	Sun	46.3	15:46	38.3	23:52	8	42.3	0.5	45	2	2	0.35	0.21	0.06			1855	1040
Mar-04	Mon	48.5	13:41	31.0	23:31	17.5	39.8	-2.6	45	2	2	0.03	0.03	0.01			0001	0145
Mar-05	Tue	44.9	14:25	22.6	6:48	22.3	33.8	-6.0	45	0	0							
Mar-06	Wed	38.1	14:59	22.8	6:46	15.3	30.5	-3.3	44	0	0							
Mar-07	Thu	46.6	13:34	21.4	6:46	25.2	34.0	3.6	43	1	2							
Mar-08	Fri	44.5	13:14	30.9	3:46	13.6	37.7	3.7	43	2	2	0.06	0.03	T			1400	1935
Mar-09	Sat	40.4	17:05	33.8	9:19	6.6	37.1	-0.6	43	2	2	0.06	0.06	0.02			2109	2305
Mar-10	Sun	63.6	16:09	39.3	0:01	24.3	51.5	14.4	44	2	2	0.20	0.11	0.02			0010	0525
Mar-11	Mon	62.1	12:23	43.1	23:58	19	52.6	1.2	46	2	2							
Mar-12	Tue	58.0	14:56	34.5	7:48	23.5	46.3	-6.4	46	0	0							
Mar-13	Wed	63.8	15:58	28.0	7:02	35.8	45.9	-0.4	46	0	0							
Mar-14	Thu	76.4	15:31	47.4	7:39	29	61.9	16.0	47	1	1							
Mar-15	Fri	73.8	11:21	61.7	23:59	12.1	67.8	5.8	50	2	2	0.01	0.01	T			1300	1430
Mar-16	Sat	61.7	0:01	42.7	7:42	19	52.2	-15.6	52	0	0							
Mar-17	Sun	56.0	15:26	30.5	7:24	25.5	43.3	-9.0	52	0	0							
Mar-18	Mon	53.4	11:41	31.9	23:45	21.5	42.7	-0.6	51	2	2	T	T	T			1255	1615
Mar-19	Tue	53.9	15:24	26.6	7:21	27.3	40.3	-2.4	49	0	0							
Mar-20	Wed	58.1	15:14	28.2	7:04	29.9	43.2	2.9	49	0	2	0.03	0.03	0.01			1930	1935
Mar-21	Thu	49.5	12:15	43.1	22:29	6.4	46.3	3.2	50	2	2	1.84	0.60	0.07			0001	1850
Mar-22	Fri	59.5	13:36	38.8	23:59	20.7	49.2	2.9	49	1	2	0.03	0.03	0.01			0001	0115
Mar-23	Sat	60.3	15:29	31.6	7:09	28.7	46.0	-3.2	49	0	0							
Mar-24	Sun	69.7	15:32	29.0	7:20	40.7	49.4	3.4	49	0	1							
Mar-25	Mon	70.1	12:04	47.3	7:30	22.8	58.7	9.3	51	2	2	0.14	0.07	0.02			1530	2035
Mar-26	Tue	53.1	14:36	34.2	23:59	18.9	43.7	-15.1	52	1	0							
Mar-27	Wed	55.4	15:21	27.4	6:34	28	41.4	-2.3	51	0	1							
Mar-28	Thu	64.8	17:05	28.9	6:58	35.9	46.9	5.5	50	0	0							
Mar-29	Fri	78.0	15:21	51.0	5:49	27	64.5	17.7	51	1	1							
Mar-30	Sat	77.0	13:59	53.9	7:29	23.1	65.5	1.0	54	1	2							
Mar-31	Sun	67.2	14:33	41.2	23:49	26.0	54.2	-11.3	55	2	2	T	T	T			0753	0810
TOTAL NUMBER		1784		1111		673.3	1447.4	6.7	1492	32	38	3.54	1.53	0.26	0	0	Col. 26 - 27	
AVERAGE		57.55	13:37	35.83	12:05	21.72	46.69		48.13	1.03	1.23	Ave Tot.	Ave. Max.	Ave. Max.	Ave. Tot.	Ave. Days	65.7	Percent
NORMALS		59.19		37.24		21.95	48.22		48.27	1.17	1.14	3.56	0.36	0.07	3.5	2.1	63.7	Percent
DEPARTURES		-1.64		-1.41		-0.23	-1.53		-0.15	-0.14	0.08	-0.02	0.24	0.00	-3.5	-2.1	2.0	Percent
Max. Temps. >= 70°F		78.0	Ave.HighMax	61.7	Ave.HighMin	40.7	67.8	17.7	55	Whole Day		1.84	0.60	0.07	0	0.0	Precip	24 Hr.
2019 6		Mar-29	80.2	Mar-15	56.0	Mar-24	Mar-15	Mar-29	Mar-31	AVE. 1.13		Mar-21	Mar-21	Mar-21			Amount	1.87
Ave. 7.0			Dep.		Dep.					Normal 1.16							Date	Mar-20
Departure -1.0			-2.2		5.8					Depart. -0.03							Date	Mar-21
Min. Temps. <= 32°F		38.1	Ave.LowMax	21.4	Ave.LowMin	5.4	30.5	-15.6	43	SKY	AM	PM	>= 0.10	INCHES	>= 1.00	INCHES	>= 2.00	INCHES
2019 14		Mar-06	37.0	Mar-07	18.8	Mar-01	Mar-06	Mar-16	Mar-07	CLEAR	12	10	5	DAYS	1	DAYS	0	DAYS
Ave. 11.4			Dep.		Dep.				Mar-08	P.CLO.	6	4	HOTTEST	67.8	Highest	Lowest	COOLEST	30.45
Departure 2.6			1.1		2.6				Mar-09	CLO.	13	17	DAY	3-15	Mean	Mean	DAY	3-06
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	0	3	6	8	14	18	22	28	30	31	31	31	31

20		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38	
Mar 2019	2nd PERIOD		WIND			REL. HUMIDITY		BAROMETRIC PRESSURE				GLAZE	SLEET	SNOW	FOG	K	DEW	FROST																	
	START	END	RUN	MAX.	TIME	MAX.	MIN.	MAX.	MIN.	AVE.	CHANGE																								
Mar-01	1710	2335	81.1	14	19:39	96	80	30.24	30.04	30.14	0.09																								
Mar-02			39.1	10	1:27	97	75	30.16	30.02	30.09	-0.05																							P	
Mar-03			70.7	15	12:42	96	75	30.16	29.68	29.92	-0.17																							N	
Mar-04			87.4	19	4:29	96	50	30.10	29.70	29.90	-0.02																							P	
Mar-05			68.2	19	23:34	85	35	30.14	29.93	30.04	0.14																							2	
Mar-06			79.6	19	14:07	59	31	30.35	30.10	30.23	0.19																							1	
Mar-07			58.8	17	12:30	72	32	30.39	30.30	30.35	0.12																							1	
Mar-08			42.6	14	13:03	94	52	30.38	30.19	30.29	-0.06																							1	
Mar-09			70.1	12	5:08	96	86	30.33	30.17	30.25	-0.04																							P	
Mar-10			95.6	23	15:08	98	74	30.19	29.93	30.06	-0.19																							2	P
Mar-11			57.4	12	10:04	95	31	30.21	30.03	30.12	0.06																								3
Mar-12			68.2	13	12:16	70	25	30.33	30.15	30.24	0.12																								1
Mar-13			65.1	19	15:34	91	34	30.37	30.23	30.30	0.06																								4
Mar-14			150.6	26	17:39	80	49	30.25	29.99	30.12	-0.18																								N
Mar-15	1615	1720	214.1	36	11:59	81	65	29.99	29.77	29.88	-0.24																								N
Mar-16			91.5	22	1:32	90	26	30.22	29.87	30.05	0.17																								N
Mar-17			56.0	13	14:10	81	31	30.31	30.14	30.23	0.18																								2
Mar-18			77.1	17	15:13	95	59	30.38	30.15	30.27	0.04																								1
Mar-19			49.8	16	11:28	96	32	30.49	30.37	30.43	0.16																								5
Mar-20	2030	2400	70.2	15	16:52	91	33	30.40	30.17	30.29	-0.15																								3
Mar-21			108.7	21	15:36	98	91	30.17	29.63	29.90	-0.39																								P
Mar-22	1730	1845	114.0	26	17:55	92	41	29.93	29.62	29.78	-0.13																								P
Mar-23			87.4	20	15:45	86	21	30.27	29.91	30.09	0.32																								P
Mar-24			93.4	21	16:18	87	24	30.33	30.06	30.20	0.11																								2
Mar-25			73.6	17	0:56	89	41	30.07	29.90	29.99	-0.21																								1
Mar-26			152.6	22	9:28	88	25	30.38	30.00	30.19	0.20																								P
Mar-27			80.9	15	12:06	83	30	30.51	30.37	30.44	0.25																								4
Mar-28			72.2	21	14:10	95	32	30.47	30.22	30.35	-0.10																								5
Mar-29			86.2	15	7:19	66	32	30.22	30.03	30.13	-0.22																								N
Mar-30			136.0	28	14:40	70	40	30.07	29.80	29.94	-0.19																								1
Mar-31	1115	1330	142.3	26	1:07	74	37	30.13	29.72	29.93	-0.01																								N
TOTAL	Column 23		2740.5	583		2687	1389	937.94	930.19	934.07	DAYS	0	0	0	1	0	6	10																	
NUMBER	Mar. Wind Run		31	31	31	31	31	31	31	31	Normal	1.0	1.8	2.8	3.1	1.8	6.1	6.8																	
AVERAGE	Total	2740.5	88.4	18.8	12:03	86.7	44.8	30.26	30.01	30.13	Depart.	-1.0	-1.8	-2.8	-2.1	-1.8	-0.1	3.2																	
NORMALS	Miles	2196.4	70.9	21.1		85.6	41.5	30.18	29.93	30.06	Rating ▶	0	0	0	2	0	8	29																	
Departures	Miles	544.2	17.6	-2.3		1.1	3.3	0.07	0.07	0.07	Intensity	GLAZE	SLEET	SNOW	FOG	K	Dew	Frost																	
MAXIMUM DATES			1	2	3	4	1	2	3	4	0.32	5. Very Heavy 4. Heavy-Unusual 3. Moderate - Ave. 2. Light - >= Ave. 1. Very Light - Slight - Trace M - Event with intensity missing																							
Min. Temps. >= 70°F			1	2	3	4	1	2	3	4	0.32	N- None No Dew Obs. P- Precip. prevent obs.																							
2019 0			1	2	3	4	1	2	3	4	0.32																								
Ave. 0.0			1	2	3	4	1	2	3	4	0.32																								
Departure 0.0			1	2	3	4	1	2	3	4	0.32																								
Days Min. <=32 °F			14	MIN.	<=70	<=65	<=60	<=55	<=50	<=45	<=40	<=35	<=30	<=25	<=20	<=15	<=10	<=05																	
Days Min >=70°F			0	DAYS	31	31	30	30	28	26	22	19	9	3	0	0	0	0																	

Mar
2019

REMARKS FOR THE MONTH

March - 2019

Mar-01	RAIN MOST OF DAY EXCEPT FROM 1100-1710-DAMP COLD FOR MARCH
Mar-02	CLOUDY COLD DAY WITH VERY LITTLE SUN-PM HAD STRATOCUMULUS AND LITTLE WIND
Mar-03	ANOTHER DAMP CLOUDY GLOOMY DAY LOOKING LIKE RAIN MOST OF RAIN BUT 1ST RAIN OCCURRED AT 1855
Mar-04	SOME CLEARING STARTING AT NOON AND PC TO MOSTLY CLOUDY IN PM-EST. PM CLOUDS 70-80%
Mar-05	FROST ON ROOF AND GRASS-FINALLY A FULL DAY OF SUN WITH DEEP BLUE SKY AND JUST A FEW CUMULUS
Mar-06	VERY COLD DAY FOR MARCH BUT WITH SUN ALL DAY-DAILY REC. LOW FOR THIS DATE WAS 31.3°F IN 2015 MISSING REC. BY ABOUT 7 DEGREES
Mar-07	WARMER BUT STILL COLD FOR TIME OF YEAR
Mar-08	COLD CLOUDY DAMP DAY WITH VIRGA SEEN AND SNOW REPORTED IN ORANGE CO. BUT NOT MEASURABLE
Mar-09	NE BREEZE WITH CLOUDS MADE FOR DAMP COLD MARCH 9TH
Mar-10	BREAKS IN CLOUDS AFTER 1400-FOG IN EARLY AM-SOME SUN THROUGH THIN CLOUDS IN PM BUT EST. PM CLOUDINESS 80-90% CLOUDY
Mar-11	NO SUN EXCEPT THROUGH ALTOSTRATUS AT CLOUDS DURING PM
Mar-12	DEW ONLY ON GRASS THOUGHT FROM GUTTATION-VERY CLEAR WITH DEEP BLUE SKY AND NEAR AVE. TEMPS.
Mar-13	VERY CLEAR AM AND CLOUDS CAME IN AT 1740-SOME CIRRUS EARLY IN PM EST. PM CLOUDS 25-30%
Mar-14	WIND AT NIGHT NO DEW-AM CLOUDS UNTIL 0845 AND CLOUDY BY 1000-EST. AM CLOUDS 30-40% AND PM EST. 40-45%
Mar-15	WIND AT NIGHT NO DEW-3RD PD. OF SPRINKLES 1855-1920-CLOUDY ALL DAY FROM COLD FRONT
Mar-16	WINDY AT NIGHT NO DEW-YESTERDAY WITH A 214.1 MILE WIND RUN WAS THE WINDIEST DAY SINCE MARCH 2, 2018 WHEN WIND RUN WAS 237.2 MILES-AM VERY CLEAR-
Mar-17	VERY SUNNY DAY WITH LOW REL. HUMIDITY AND NOT AS MUCH WIND
Mar-18	DEW ONLY ON GRASS-ONLY A LITTLE SUN TODAY AROUND 1130-VIRGA SEEN WITH N/E WIND A COLD MARCH DAY
Mar-19	HEAVIEST FROST OF 2019-FROZEN FOG IN PARTS OF COUNTY-REC. LOW MIN. FOR DATE
Mar-20	FIRST DAY OF SPRING HAD A MIN. TEMP. 10 DEGREES BELOW AVE. BUT MAX. WAS ONLY 3 DEG. BELOW AVERAGE
Mar-21	COLD RAIN ALL DAY WITH 6 INS. OF SNOW ON BLUE RIDGE PARKWAY AND 7 INS. REPORTED AT WINTERGREEN-WINDY & VERY QUICK PRESSURE DROP
Mar-22	VIRGA SEEN AGAIN TODAY AROUND 1730-PM HAD A LOT OF STRATOCUMULUS CLOUDS
Mar-23	BEAUTIFUL DAY EXCEPT A LITTLE WINDY-DEEP BLUE SKY AND FULL SUN
Mar-24	BEAUTIFUL DAY WARMEST IN PAST 10 DAYS-CLEAR AM WITH INCREASING CIRRUS AND CIRROSTRATUS IN PM
Mar-25	ONLY A LITTLE DEW ON GRASS-THIN AM CIRRUS UNTIL ABOUT NOON THEN THICKER CLOUDS WITH RAIN COMING IN AT 1530
Mar-26	SKY CLEARED AT 0910 AND WAS VERY CLEAR IN PM-ALSO WINDY BUT CHILLY AND 10 DEGREES BELOW AVERAGE
Mar-27	COLD CLEAR AM-PM A LITTLE WARMER AND SOME FIBROUS CIRRUS-EST. PM CLOUDS 35%
Mar-28	HEAVY GROUND FROST - COLD START BUT STRONG WARMUP UNDER VERY CLEAR SKIES UNTIL 1700
Mar-29	WINDY WITH LOW REL. HUMIDITY NO DEW-WARMEST DAY OF YEAR-MANY PLANTS BLOOMING
Mar-30	VERY LITTLE DEW ON GRASS-SUN THROUGH CIRROSTRATUS IN PM-WINDY & ABOVE AVE. TEMPERATURES-SUN THROUGH VERY THIN AM CIRRUS THAT BECAME CIST IN THE
Mar-31	WINDY NIGHT WITH NO DEW - TRACE OF PRECIP. FROM A STRONG CF THAT PASSED AT 1300. SLOW CLEARING BUT CLEAR AFTER 1730 - PM EST. TO BE 70% TO 80% CLOUDY

DATE

EXTENSION OF LENGTHY DAILY REMARKS

Mar-16	AND THE PM WAS EST. TO BE 20-30% CLOUDY FROM CIRRUS
Mar-30	PM WITH COMPLETE BUT STILL THIN COVERAGE

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 2019](#)

Mar
2019

March-2019

The Glen Allen Station had 14 Records or Record Ties in March

1	The daily precipitation on the 1st was 0.78 inches, a new 10 year HIGH daily precipitation record for the date - the old record was 0.74 inches in 2009.
2	
3	
4	
5	
6	
7	
8	The maximum temperature on the 8th was 44.5°F, a new 10-year cold daily maximum temperature record for the date - the old record was 46.9°F in 2018. The daily temperature range on the 8th was 13.6°F, a new 10-year LOW daily temperature range record for the date - the old record was 18°F in 2013. The daily precipitation on the 8th was 0.06 inches, a new 10-year HIGH daily precipitation record for the date - the old record was 0.03 inches in 2017.
9	The maximum temperature on the 9th was 40.4°F, a new 10-year cold daily maximum temperature record for the date - the old record was 48.1°F in 2018. The daily temperature range on the 9th was 6.6°F, a new 10-year LOW daily temperature range record for the date - the old record was 15°F in 2011.
10	
11	
12	
13	The daily temperature range on the 13th was 35.8°F, a new 10-year HIGH daily temperature range record for the date - the old record was 28°F in 2011.
14	
15	The minimum temperature on the 15th was 61.7°F, a new 10-year warm daily minimum temperature record for the date - the old record was 57°F in 2012.
16	
17	
18	
19	The minimum temperature on the 19th was 26.6°F, a new 10-year LOW daily minimum temperature record for the date - the old record was 34°F in 2013.
20	The minimum temperature on the 20th was 28.2°F, a new 10-year LOW daily minimum temperature record for the date - the old record was 28.7°F in 2017.
21	The daily precipitation on the 21st was 1.84 inches, a new 10-year HIGH daily precipitation record for the date - the old record was 0.52 inches in 2018.
22	
23	
24	The daily temperature range on the 24th was 40.7°F, a new 10-year HIGH daily temperature range record for the date - the old record was 34.7°F in 2017.
25	
26	
27	
28	
29	
30	The maximum temperature on the 30th was 77°F, a new 10-year daily HIGH maximum temperature record for the date - the old record was 76.6°F in 2018. The minimum temperature on the 30th was 53.9°F, a new 10-year warm daily minimum temperature record for the date - the old record was 47°F in 2010.
31	

MARCH TEMPERATURE GRAPH

