

1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19	
Mar 2017	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	80.3	13:33	57.7	1:21	22.6	69.0	9.9	54	2	2	0.15	0.09	0.02			1409	1440																			
Mar-02	Wed	61.4	0:44	35.8	23:59	25.6	48.6	-20.4	55	0	0																										
Mar-03	Thu	50.2	13:32	27.8	23:44	22.4	39.0	-9.6	51	2	1	T	T	T	T	None	1050	1053																			
Mar-04	Fri	47.9	14:37	22.1	6:37	25.8	35.0	-4.0	47	0	0																										
Mar-05	Sat	45.1	14:32	24.6	5:59	20.5	34.9	-0.1	46	0	0																										
Mar-06	Sun	62.4	15:41	30.6	4:33	31.8	46.5	11.7	46	2	2																										
Mar-07	Mon	70.6	15:41	54.2	4:24	16.4	62.4	15.9	49	2	2	0.01	0.01	T			1605	1635																			
Mar-08	Tue	67.5	14:16	48.5	23:42	19	58.0	-4.4	52	1	0	0.03	0.02	0.01			0520	0715																			
Mar-09	Wed	73.2	14:54	46.4	6:07	26.8	59.8	1.8	51	0	0																										
Mar-10	Thu	57.0	0:08	32.1	23:58	24.9	44.6	-15.3	52	2	1	0.01	T	T			0657	0935																			
Mar-11	Fri	47.6	15:52	24.7	6:00	22.9	36.2	-8.4	48	0	0																										
Mar-12	Sat	46.5	15:45	26.9	4:23	19.6	36.7	0.6	47	1	0																										
Mar-13	Sun	47.3	13:40	26.5	6:15	20.8	36.9	0.2	46	2	2	0.39	0.14	0.01	T	None	1525	2400																			
Mar-14	Mon	48.8	16:19	28.8	23:59	20	38.8	1.9	45	2	2	0.74	0.18	0.02	T	None	0001	0855																			
Mar-15	Tue	38.9	17:14	20.2	7:06	18.7	29.6	-9.3	44	0	0																										
Mar-16	Wed	48.0	15:21	20.5	7:21	27.5	34.3	4.7	43	0	0																										
Mar-17	Thu	55.2	14:18	23.3	7:25	31.9	39.3	5.0	43	0	1	T	T	T			2020	2025																			
Mar-18	Fri	64.1	15:54	43.1	7:25	21	53.6	14.4	46	2	1	0.23	0.19	0.03			0001	0035																			
Mar-19	Sat	52.3	15:25	37.5	8:26	14.8	44.9	-8.7	49	2	2	0.11	0.04	0.01	T	None	0100	0840																			
Mar-20	Sun	57.1	16:22	28.7	7:18	28.4	42.9	-2.0	47	0	2																										
Mar-21	Mon	65.9	16:42	47.4	6:48	18.5	56.7	13.8	50	2	1	0.01	0.01	T			0240	0420																			
Mar-22	Tue	54.7	0:01	36.7	23:58	18	45.7	-11.0	52	0	0																										
Mar-23	Wed	49.4	17:08	24.7	6:54	24.7	37.1	-8.7	49	0	0																										
Mar-24	Thu	68.7	15:58	34.0	6:39	34.7	51.4	14.3	48	2	1	T	T	T			1119	1120																			
Mar-25	Fri	79.3	15:07	57.4	7:10	21.9	68.4	17.0	51	1	1																										
Mar-26	Sat	69.1	14:38	56.1	23:57	13	62.6	-5.8	54	2	2	T	T	T			1450	1455																			
Mar-27	Sun	78.5	15:28	50.4	1:22	28.1	64.5	1.9	55	2	1	0.01	0.01	T			0250	0340																			
Mar-28	Mon	75.1	14:22	60.3	22:13	14.8	67.7	3.2	57	2	2	0.06	0.04	0.01			0655	1010																			
Mar-29	Tue	69.5	15:40	53.9	23:57	15.6	61.7	-6.0	58	2	1	T	T	T			0055	0105																			
Mar-30	Wed	58.1	17:05	46.0	2:58	12.1	52.1	-9.7	57	2	2																										
Mar-31	Thu	60.9	16:46	48.8	0:01	12.1	54.9	2.8	55	2	2	1.03	0.31	0.06			0040	0045																			
TOTAL NUMBER		1851		1176		674.9	1513.2	-4.3	1547	37	31	2.78	1.04	0.17	T	0	Col. 26 - 27																				
AVERAGE		31	31	31	31	31	31	31	31	31	31	12	11	8	0	0	DAILY AVE RH																				
NORMALS		59.70	13:57	37.93	10:50	21.77	48.81		49.90	1.19	1.00	Ave Tot.	AveMax	AveMax	AveTot.	AveDays	58.3	Percent																			
DEPARTURES		59.83		37.77		22.06	48.80		48.20	1.19	1.16	3.78	0.38	0.08	3.6	2.4	64.1	Percent																			
MaxTemps. >= 70°F		80.3		60.3		34.7	69.0	17.0	58	Whole Day		1.03	0.31	0.06	T	0.0	Precip	24 Hr.																			
2017 7		Mar-01		Mar-28		Mar-24	Mar-01	Mar-25	Mar-29	AVE.	1.10	Mar-31	Mar-31	Mar-31	Mar-03		Amount	1.13																			
Ave. 6.6										Normal	1.18				Mar-13		Date	Mar-13																			
Departure 0.4										Depart.	-0.08				Mar-14		Date	Mar-14																			
MinTemps. <= 32°F		38.9		20.2		12.1	29.6	-20.4	43	SKY		PM	>= 0.10	INCHES	>= 1.00	INCHES	>= 2.00	INCHES																			
2017 14		Mar-15		Mar-15		Mar-30	Mar-15	Mar-02	Mar-16	CLEAR	11	11	6	DAYS	1	DAYS	0	DAYS																			
Ave. 10.3						Mar-31			Mar-17	P.CLO.	3	9	HOTTEST	69.0	Highest	Lowest	COOLEST	29.55																			
Departure 3.8										CLO.	17	11	DAY	3-01	Mean	Mean	DAY	3-15																			
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	4	7	11	15	20	22	30	30	31	31	31	31																			

20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Mar 2017	2nd PERIOD		WIND			REL. HUMIDITY		BAROMETRIC PRESSURE				GLAZE	SLEET	SNOW	FOG	R	DEW	FROST
	START	END	RUN	MAX.	TIME	MAX.	MIN.	MAX.	MIN.	AVE.	CHANGE							
Mar-01	1620	2100	186.4	46	11:46	99	45	30.04	29.66	29.85	-0.36						P	
Mar-02			102.5	28	4:48	86	26	30.25	29.67	29.96	0.11						P	
Mar-03			66.1	26	13:53	79	21	30.56	30.23	30.40	0.43			1				3
Mar-04			46.3	20	14:16	77	20	30.66	30.51	30.59	0.19							3
Mar-05			42.6	13	8:56	57	26	30.74	30.55	30.65	0.06							N
Mar-06			50.3	19	10:09	70	45	30.55	30.34	30.45	-0.20							N
Mar-07	1750	1755	172.2	34	13:13	71	44	30.35	30.08	30.22	-0.23						N	
Mar-08			111.5	28	2:11	86	18	30.19	30.00	30.10	-0.12						P	
Mar-09			96.8	25	14:12	41	15	30.22	29.92	30.07	-0.02						N	
Mar-10	1030	1150	128.7	33	13:57	87	30	30.17	29.76	29.97	-0.10						N	
Mar-11			54.7	17	15:07	72	18	30.34	30.16	30.25	0.28							2
Mar-12			29.3	14	16:35	52	24	30.44	30.29	30.37	0.12							N
Mar-13			54.1	17	11:45	94	37	30.47	30.01	30.24	-0.13	1	1	1				2
Mar-14			79.2	27	13:59	94	43	30.01	29.55	29.78	-0.46	2	1	1				P
Mar-15			106.8	27	13:06	55	28	30.16	29.87	30.02	0.23							N
Mar-16			44.3	20	10:19	64	27	30.28	30.14	30.21	0.20							2
Mar-17	2225	2400	34.1	23	14:19	76	21	30.43	30.17	30.30	0.09							2
Mar-18	1725	1825	51.8	23	20:37	98	39	30.21	29.88	30.05	-0.25						P	
Mar-19			125.8	25	7:01	94	49	30.25	30.00	30.13	0.08			1			P	
Mar-20			26.1	15	9:44	96	37	30.25	30.01	30.13	0.01							4
Mar-21			39.1	17	12:04	85	48	30.01	29.90	29.96	-0.18						P	
Mar-22			135.7	31	9:07	79	20	30.45	29.92	30.19	0.23						1	
Mar-23			36.3	14	0:11	62	22	30.65	30.44	30.55	0.36							1
Mar-24	1150	1159	120.2	33	14:28	74	39	30.55	30.22	30.39	-0.16						N	
Mar-25			126.3	25	15:11	74	42	30.25	30.13	30.19	-0.20						N	
Mar-26			63.2	16	15:42	92	63	30.27	30.14	30.21	0.02							2
Mar-27	0500	0530	69.2	22	11:49	98	52	30.16	29.91	30.04	-0.17						P	
Mar-28	1730	1815	69.1	17	2:15	94	58	29.94	29.80	29.87	-0.16				1		N	
Mar-29			76.9	17	10:26	94	47	30.16	29.94	30.05	0.18							2
Mar-30			56.5	13	8:02	79	55	30.23	30.01	30.12	0.07							N
Mar-31	0135	0140	36.7	13	9:20	98	78	30.02	29.59	29.81	-0.32							P
TOTAL NUMBER	Column 23		2438.8	698		2477	1137	939.26	930.80	935.03	DAYS	2	2	4	0	1	3	8
	Mar. Wind Run		31	31	31	31	31	31	31	31	Normal	0.9	1.8	2.8	3.8	2.1	6.9	6.0
AVERAGE	Total	2438.8	78.7	22.5	11:14	79.9	36.7	30.30	30.03	30.16	Depart.	1.1	0.3	1.3	-3.8	-1.1	-3.9	2.0
NORMALS	Miles	2061.3	66.5	21.0		86.0	41.8	30.18	29.93	30.05	Rating ▶	GLAZE 3	SLEET 2	SNOW 4	FOG 0	1	5	19
Departures	Miles	377.5	12.2	1.6		-6.1	-5.1	0.12	0.10	0.11	Intensity							
MAXIMUM DATES		Dates	186.4	46	South	99	78	30.74	30.55	30.65	0.43	GLAZE 3	SLEET 2	SNOW 4	FOG 0	R	Dew	Frost
1		Mar-01	Mar-01	11:46	Mar-01	Mar-31	Mar-05	Mar-05	Mar-05	Mar-03								
2																		
3																		
4																		
MINIMUM DATES		Dates	26.1	13		41	15	29.94	29.55	29.78	-0.46	5. Very Heavy 4. Heavy-Unusual 3. Moderate - Ave. 2. Light - >= Ave. 1. Very Light - Slight - Trace M - Event with intensity missing						
1		Mar-20	Mar-05		Mar-09	Mar-09	Mar-28	Mar-14	Mar-14	Mar-14		N- None No Dew Obs. P- Precip. prevent obs.						
2			Mar-30															
Days Min. <=32 °F		14	MIN. DAYS	<=70	<=65	<=60	<=55	<=50	<=45	<=40	<=35	<=30	<=25	<=20	<=15	<=10	<=05	
Days Min >=70°F		0		31	31	31	27	25	19	18	15	12	7	1	0	0	0	

REMARKS FOR THE MONTH

March - 2017

Mar-01	GLEN ALLEN WAS UNDER A SLIGHT RISK FOR SEVERE WEATHER BUT GLEN ALLEN HAD MAINLY STRONG WINDS AHEAD OF A SQUALL LINE NOT WITH PASSAGE OF CF.
Mar-02	COLD FRONT PASSED AROUND 0230-BREEZY BUT VERY SUNNY AND MUCH COOLER
Mar-03	SNOW VIRGA SEEN IN AM AND VERY LIGHT FLURRY JUST BEFORE 1100
Mar-04	GOOD CONDITIONS FOR FROST EXCEPT AIR TOO DRY-MIN. DEW POINT WAS 12.1°F AT 0040
Mar-05	AM REL. HUMIDITY ONLY 56% AND MIN. DEW POINT WAS 9.6°F -CLEAR BUT COLD COMPARED TO RECENT TEMPS.
Mar-06	MOSTLY CLEAR FROM 0800-0930 THEN CLOUDY REST OF DAY WITH A LITTLE SUN THROUGH THIN CLOUDS
Mar-07	VERY WARM BUT WINDY AND CLOUDY DAY-SPRINKLES AFTER 1610- 3RD PD. OF PRECIP. 2015-2210
Mar-08	LIGHT RAIN IN EARLY AM THEN A QUICK CLEARING FROM 0900-0915-THEN A FEW CIRRUS & WARM BREEZE-BEAUTIFUL CIRRUS FIBROUS & CUMULUS IN PM SKY AROUND 1400
Mar-09	VERY CLEAR AND LOW REL. HUMIDITY & WARM FOR MARCH
Mar-10	SPRINKLES IN AM AND CLEARING STARTED AT 1215 AND NEARLY TOTALLY CLEAR BY 1530
Mar-11	MORE FROST ON GROUND THAN SKY MIRROR-VERY CLEAR BUT CHILLY DAY WITH LOW REL. HUMIDITY & LOW DEW POINT OF 4.6°F
Mar-12	SNOWSTORM IN NC AND CLOUDS FROM STORM HERE UNTIL 1000 FROM THE SOUTH & CLEAR UNTIL SUNSET
Mar-13	SKY ONLY CLEAR FROM 1130-1330-MAJOR NE STORM TONIGHT BUT TOO WARM FOR MUCH FROZEN PRECIP. HERE
Mar-14	AFTER MIDNIGHT MAINLY FREEZING RAIN WITH AT LEAST 0.1 INS. OF ICE WITH SOME SLEET MIXED IN
Mar-15	TODAY WAS CLEAR BUT VERY COLD FOR MID-MARCH-LOW DEW POINT 1.8°F AT 1647 & WIND CHILL MIN. WAS 7°F AT 0717
Mar-16	FROST ONLY ON GRASS-ANOTHER CLEAR DAY BUT MUCH WARMER AND LESS WIND
Mar-17	MOSTLY CLEAR ALL DAY UNTIL 1500 THEN CLOUDS MOVED IN WITH LIGHT RAIN TONIGHT
Mar-18	CLEARED OFF AT 1115 AND CLOUDS AGAIN WITH CIRRUS BY 1230 THEN CLEAR AGAIN 1515-1700 THEN CLOUDY AGAIN-PM EST. 60-65% CLOUDY-3RD PD. PRECIP. 2025-2245
Mar-19	HEAVY STRATOCUMULUS MOST OF DAY AND THREATENING PRECIP. WITH BREEZY CONDITIONS AND COLD FRONT PASSAGE AROUND 0830
Mar-20	CIRRUS CAME IN AROUND NOON AND BECAME THICKER UNTIL DARK
Mar-21	VARIABLE CLOUDINESS-AM SUN THROUGH CIRRUS-PM WAS MAINLY BROKEN CIRRUS EST. 55-65% CLOUDY
Mar-22	CLEAR AND WINDY DAY AS A COLD FRONT PASSED AT 0730 - WIND GAVE A MIN. WIND CHILL FACTOR OF 37°F
Mar-23	VERY DRY AIR THUS LITTLE FROST-DEEP BLUE SKY LOW HUMIDITY WAS 22% AND LOW DEW POINT OF 6°F AT 0110
Mar-24	SPRINKLES WERE VERY LIGHT GIVING A MAX. OF 15 ON MOISTURE SENSOR AND EACH SPRINKLE LASTED ONLY A FEW MINUTES
Mar-25	GREAT WARM-UP TODAY-SKY HAD VERY THIN CIRRUS BUT MUCH SOLAR ENERGY THROUGH CLOUDS
Mar-26	DEW ONLY ON GRASS-ONLY A FEW DROPS OF RAIN SEEN ON CAR WINDSHIELD-MOISTURE SENSOR DIDN'T EVEN SHOW IT
Mar-27	3RD PD. OF SPRINKLES 0700-0905-NOT EVEN 0.01 INS. -WARMEST SINCE MARCH 1ST
Mar-28	THUNDER HEARD 3-4 TIMES IN PM BUT DISTANT-THUNDERSTORMS WERE WIDELY SCATTERED AND PM WAS EST. TO BE 70-75% CLOUDY
Mar-29	DEW FORMED AFTER A MIDNIGHT LIGHT SPRINKLE
Mar-30	CLOUDY ALL DAY WITH MAINLY ALTOSTRATUS AND LOOK LIKE PRECIPITATION BUT NONE OCCURRED
Mar-31	3RD PD. OF SPRINKLES 0320-0410 4th PD. RAIN AT 0525-1450, 5th RAIN PD. 1740-1955, 6TH RAIN PD. 2030-2210 - VERY RAINY DAY AND MUCH NEEDED PRECIP.

DATE

EXTENSION OF LENGTHY DAILY REMARKS

EQUIPMENT

THIS HAS BEEN A BUSY MONTH WITH EQUIPMENT PROBLEMS. AFTER SEVERAL TESTS I FOUND THE CABLE TO THE TRIPPING BUCKET RAIN GAUGE WAS DEFECTIVE. THE CABLE WAS REPLACED ON MARCH 14TH AND HAS BEEN WORKING FINE SINCE THEN. I FOUND DAVIS HAS RELEASED A NEW TRANSMITTER AND SENSOR THAT IS ACCURATE TO 0.3 DEGREES F AND THE REL. HUMIDITY +/- 2% ACROSS THE ENTIRE RANGE SO THIS WAS PURCHASED AND INSTALLED ON MARCH 17TH. ALSO A NEW LITHIUM BATTERY WAS REPLACED IN THE NEW TRANSMITTER ON THE 17TH.

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

www.glenallenweather.com/upload/glenallencimate/log/2016/2016_Obs_Rules.pdf

DAILY RECORDS FOR THE MONTH

Mar
2017

The Glen Allen Station had 30 Records or Record Ties in March 2017

1	The maximum temperature on the 1st was 80.3°F, a new 8-year daily HIGH maximum temperature record for the date - the old record was 73.1°F in 2016. The minimum temperature on the 1st was 57.7°F, a new 8-year warm daily minimum temperature record for the date - the old record was 50°F in 2012.
2	
3	
4	
5	
6	The daily temperature range on the 6th was 31.8°F, a new 8-year HIGH daily temperature range record for the date - the old record was 28°F in 2012.
7	The minimum temperature on the 7th was 54.2°F, a new 8-year warm daily minimum temperature record for the date - the old record was 49°F in 2009.
8	The daily precipitation on the 8th was 0.03 inches, a new 8-year HIGH daily precipitation record for the date - the old record was trace in 2016 and 2012.
9	
10	
11	The maximum temperature on the 11th was 47.6°F, a new 8-year cold daily maximum temperature record for the date - the old record was 51°F in 2011. The minimum temperature on the 11th was 24.7°F, a new 8-year LOW daily minimum temperature record for the date - the old record was 30°F in 2012.
12	The maximum temperature on the 12th was 46.5°F, a new 8-year cold daily maximum temperature record for the date - the old record was 58°F in 2009. The minimum temperature on the 12th was 26.9°F, a new 8-year LOW daily minimum temperature record for the date - the old record was 33°F in 2011.
13	The daily precipitation on the 13th was 0.39 inches, a new 8-year HIGH daily precipitation record for the date - the old record was 0.36 inches in 2009.
14	The daily precipitation on the 14th was 0.74 inches, a new 8-year HIGH daily precipitation record for the date - the old record was 0.46 inches in 2015. The daily greatest snow on the 14th was a trace, and is a new 8-year daily greatest snow record for the date - the old record was 0 inches.
15	The minimum temperature on the 15th was 20.2°F, a new 8-year LOW daily minimum temperature record for the date - the old record was 27°F in 2013. The maximum temperature on the 15th was 38.9°F, a new 8-year cold daily maximum temperature record for the date - the old record was 46°F in 2009.
16	The minimum temperature on the 16th was 21.7°F, a new 8-year LOW daily minimum temperature record for the date - the old record was 31°F in 2014. The maximum temperature on the 16th was 48°F, and EQUALED the 8 year LOW daily maximum temperature record for the date - the old record was set in 2014.
17	The minimum temperature on the 17th was 23.3°F, a new 8-year LOW daily minimum temperature record for the date - the old record was 27°F in 2014.
18	
19	The daily greatest snow on the 19th was a trace, and is a new 8-year daily greatest snow record for the date - the old record was 0 inches.
20	The minimum temperature on the 20th was 28.7°F, a new 8-year LOW daily minimum temperature record for the date - the old record was 29°F in 2013.
21	The daily temperature range on the 21st was 14.6°F, a new 8-year LOW daily temperature range record for the date - the old record was 21.4°F in 2016.
22	
23	The minimum temperature on the 23rd was 24.7°F, a new 8-year LOW daily minimum temperature record for the date - the old record was 25°F in 2013. The maximum temperature on the 23rd was 49.4°F, a new 8-year cold daily maximum temperature record for the date - the old record was 52°F in 2015.
24	The daily temperature range on the 24th was 34.7°F, a new 8-year HIGH daily temperature range record for the date - the old record was 30°F in 2010.
25	The minimum temperature on the 25th was 57.4°F, a new 8-year warm daily minimum temperature record for the date - the old record was 55.8°F in 2016. The maximum temperature on the 25th was 79.3°F, a new 8-year daily HIGH maximum temperature record for the date - the old record was 78.2°F in 2016.
26	The minimum temperature on the 26th was 56.2°F, a new 8-year warm daily minimum temperature record for the date - the old record was 47°F in 2012.
27	The minimum temperature on the 27th was 50.4°F, a new 8-year warm daily minimum temperature record for the date - the old record was 49.5°F in 2016. The maximum temperature on the 27th was 78.5°F, a new 8-year daily HIGH maximum temperature record for the date - the old record was 67.2°F in 2015.
28	The minimum temperature on the 28th was 60.3°F, a new 8-year warm daily minimum temperature record for the date - the old record was 51.8°F in 2016.
29	
30	
31	The daily precipitation on the 31st was 1.03 inches, a new 8-year HIGH daily precipitation record for the date - the old record was 0.17 inches in 2013.