



1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19	
Jan 2018	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																			
Jan-01	Mon	26.4	12:25	6.2	7:25	20.2	16.3	-4.5	39	0	0																										
Jan-02	Tue	28.7	14:35	4.8	7:33	23.9	16.8	0.4	38	0	0																										
Jan-03	Wed	35.5	12:44	9.4	4:42	26.1	22.5	5.7	37	2	2	0.02	0.02	T	0.2	None	2230	2400																			
Jan-04	Thu	31.6	13:35	13.8	23:57	17.8	22.7	0.3	37	2	1	0.22	0.06	0.01	1.7	1.5	0001	0820																			
Jan-05	Fri	27.1	13:28	7.3	6:33	19.8	17.2	-5.5	37	0	0																										
Jan-06	Sat	24.3	13:14	3.3	7:15	21.0	13.8	-3.4	36	0	0																										
Jan-07	Sun	26.7	13:54	-1.4	6:33	28.1	12.7	-1.2	36	0	1																										
Jan-08	Mon	46.8	14:34	18.1	0:12	28.7	32.5	19.8	35	1	2	0.14	0.05	0.01		T	1520	2300																			
Jan-09	Tue	56.6	12:23	30.1	23:50	26.5	43.4	10.9	36	0	2																										
Jan-10	Wed	44.8	14:17	27.7	3:08	17.1	36.3	-7.1	36	2	2																										
Jan-11	Thu	65.2	14:23	36.4	7:32	28.8	50.8	14.6	38	2	2	0.03	0.02	0.01																			1550	2005			
Jan-12	Fri	70.1	12:38	58.4	23:55	11.7	64.3	13.5	42	2	2	0.76	0.19	0.10																			0045	1015			
Jan-13	Sat	58.4	0:01	22.3	23:58	36.1	40.4	-23.9	47	2	2	0.02	0.02	0.01																			0001	0035			
Jan-14	Sun	29.3	13:43	16.4	7:29	12.9	22.9	-17.5	44	0	0																										
Jan-15	Mon	37.3	14:38	15.1	5:47	22.2	26.2	3.4	41	1	0																										
Jan-16	Tue	43.0	14:43	22.9	0:02	20.1	33.0	6.8	39	2	2																										
Jan-17	Wed	34.6	2:47	22.5	17:37	12.1	28.6	-4.4	40	2	2	0.19	0.05	0.01	2.2	2.0	0520	1340																			
Jan-18	Thu	43.5	14:56	9.6	7:17	33.9	26.6	-2.0	40	0	0																										
Jan-19	Fri	56.2	14:27	24.6	7:10	31.6	40.4	13.9	39	0	0																										
Jan-20	Sat	63.3	14:08	32.9	0:56	30.4	48.1	7.7	39	0	0																										
Jan-21	Sun	68.5	14:28	33.6	4:39	34.9	51.1	3.0	40	0	1																										
Jan-22	Mon	66.8	14:48	49.4	7:36	17.4	58.1	7.1	42	2	2																										
Jan-23	Tue	73.2	13:42	43.3	23:59	29.9	58.3	0.2	44	2	1	0.17	0.08	0.05																			0040	0045			
Jan-24	Wed	53.8	11:55	34.0	7:20	19.8	43.9	-14.4	46	1	2	T	T	T																			2005	2210			
Jan-25	Thu	47.7	14:45	24.5	7:30	23.2	36.1	-7.8	45	0	0																										
Jan-26	Fri	57.3	14:51	24.2	7:16	33.1	40.8	4.7	43	0	1																										
Jan-27	Sat	65.4	14:51	37.5	7:29	27.9	51.5	10.7	43	0	1																										
Jan-28	Sun	57.8	0:01	49.6	23:15	8.2	53.7	2.3	45	2	2	0.66	0.07	0.02																			0020	2400			
Jan-29	Mon	49.6	0:01	33.1	23:51	16.5	41.4	-12.4	46	2	2	0.63	0.10	0.01																			0001	1950			
Jan-30	Tue	39.8	11:59	21.1	23:51	18.7	30.5	-10.9	46	2	0	0.07	0.06	0.02	0.1	None	0515	0725																			
Jan-31	Wed	41.1	16:16	17.5	3:26	23.6	29.3	-1.2	43	1	1																										
TOTAL NUMBER		1470		748		722.2	1109.3	8.5	1259	30	33	2.91	0.72	0.25	4.2	6.5	Column 26 - 27																				
AVERAGE		31	12:13	31	10:44	23.30	35.78		40.61	0.97	1.06	Ave. Tot.	Ave.Max	Ave.Max	Ave.Tot.	Ave.Days	66.8	Percent																			
NORMALS		47.01		27.47		19.53	37.24		41.87	1.13	1.16	3.39	0.37	0.08	5.7	2.8	65.2	Percent																			
DEPARTURES		0.43		-3.34		3.76	-1.46		-1.26	-0.16	-0.10	-0.48	-0.18	0.02	-1.5	3.7	1.6	Percent																			
MaxTemps. >= 70°F		73.2		58.4		36.1	64.3	19.8	47	Whole	Day	0.76	0.19	0.10	2.2	2.0	Precip	24 Hr.																			
2018	2	Jan-23		Jan-12		Jan-13	Jan-12	Jan-08	Jan-13	AVE.	1.02	Jan-12	Jan-12	Jan-12	Jan-17	Jan-17	Amount	0.89																			
Ave.	0.7									Normal	1.15						Date	Jan 28																			
Departure	1.3									Depart.	-0.13						Date	Jan 29																			
MinTemps. <= 32°F		24.3		-1.4		8.2	12.7	-23.9	35	SKY	AM	PM	≥ 0.10	INCHES	≥ 1.00	INCHES	≥ 2.00	INCHES																			
2018	21	Jan-06		Jan-07		Jan-28	Jan-07	Jan-13	Jan-08	CLEAR	14	11	7	DAYS	0	DAYS	0	DAYS																			
Ave.	21.4									PT. CLO.	4	7	HOTTEST	64.3	Highest	Lowest	COOLEST	12.65																			
Departure	-0.4									CLO.	13	13	DAY	Jan-12	Mean	Mean	DAY	Jan-07																			
Days Max. <=32 °F		7		MAX.	≥80	≥75	≥70	≥65	≥60	≥55	≥50	≥45	≥40	≥35	≥30	≥25	≥20																				
Days Max. >=90°F		0		DAYS	0	0	2	4	7	12	14	17	21	24	25	30	31																				

PAGE #2		Jan 2018 West Henrico Co. - Glen Allen Weather Center 37.65537° N. 77.6593° W. - Koontz																		
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Jan 2018	2nd PERIOD		WIND			REL. HUMIDITY		BAROMETRIC PRESSURE												
	START	END	RUN	MAX.	TIME	MAX.	MIN.	MAX.	MIN.	AVE.	CHANGE	GLAZE	SLEET	SNOW	FOG	DEW	FROST			
Jan-01			52.2	17	11:14	88	38	30.57	30.45	30.51	0.34									3
Jan-02			44.7	14	0:43	82	34	30.66	30.43	30.55	0.04									1
Jan-03			47.2	17	22:36	89	25	30.43	29.89	30.16	-0.39									4
Jan-04			142.4	27	3:57	91	42	29.99	29.68	29.84	-0.32			1						P
Jan-05			94.0	20	11:54	65	31	30.36	29.98	30.17	0.34			2						N
Jan-06			67.3	20	13:36	74	32	30.62	30.35	30.49	0.31									1
Jan-07			47.8	13	15:45	88	34	30.73	30.47	30.60	0.12									3
Jan-08			159.2	24	13:01	91	39	30.47	30.15	30.31	-0.29									N
Jan-09			43.8	11	0:02	98	46	30.38	30.15	30.27	-0.04									2
Jan-10			19.5	6	0:24	96	71	30.51	30.36	30.44	0.17									4
Jan-11	2255	2300	67.8	20	19:46	96	72	30.40	30.07	30.24	-0.20									1
Jan-12	1255	1355	133.4	27	22:49	97	89	30.07	29.49	29.78	-0.45								P	
Jan-13	0700	0810	176.2	24	10:21	95	48	30.49	29.48	29.99	0.20								P	
Jan-14			135.4	21	3:45	64	37	30.69	30.49	30.59	0.61									N
Jan-15			59.9	12	3:52	91	57	30.66	30.46	30.56	-0.03									N
Jan-16			26.0	10	15:10	97	48	30.52	30.33	30.43	-0.14				3		3			4
Jan-17			127.8	19	11:04	93	59	30.38	30.27	30.33	-0.10			3						N
Jan-18			83.0	18	0:43	87	33	30.27	30.11	30.19	-0.14									N
Jan-19			77.4	14	14:40	68	18	30.18	30.07	30.13	-0.06									N
Jan-20			93.5	18	14:46	82	32	30.13	30.01	30.07	-0.05									N
Jan-21			56.7	16	13:41	96	49	30.25	30.12	30.19	0.12								4	1
Jan-22			102.8	20	12:23	81	51	30.21	29.96	30.09	-0.10								N	
Jan-23	0400	0900	157.1	31	13:09	96	29	29.96	29.59	29.78	-0.31								P	
Jan-24			64.4	18	10:35	73	58	30.26	29.91	30.09	0.31								1	
Jan-25			50.6	13	16:15	84	38	30.61	30.26	30.44	0.35									2
Jan-26			69.3	16	15:11	94	34	30.72	30.59	30.66	0.22									5
Jan-27			124.4	22	12:15	75	49	30.59	30.34	30.47	-0.19								N	
Jan-28			71.1	13	20:46	96	75	30.34	30.16	30.25	-0.22								P	
Jan-29			109.8	19	11:24	97	93	30.16	30.00	30.08	-0.17								P	
Jan-30			90.9	25	14:01	98	40	30.10	29.75	29.93	-0.15			1					p	
Jan-31			85.2	21	23:29	85	36	30.42	30.10	30.26	0.34									3
TOTAL NUMBER	Mar. Wind Run		2680.8	566	31	2707	1437	942.13	933.47	937.80	COUNT	0	0	4	1	0	2	13		
	AVERAGE	Total	2680.8	86.48	18.26	12:02	87.32	46.35	30.39	30.11	30.25	NORMAL	1.2	1.2	4.3	3.6	0.6	3.4	10.6	
NORMALS	Miles	1788.2	57.68	18.94		85.16	44.61	30.21	29.93	30.07	DEPART.	-1.2	-1.2	-0.3	-2.6	-0.6	-1.4	2.4		
DEPARTURES	Miles	892.6	28.79	-0.68		2.16	1.74	0.18	0.18	0.18	Rating ▶	0	0	7	3	0	5	34		
MAXIMUM DATES		Dates	176.2	31	SSW	98	93	30.73	30.59	30.66	0.61	Intensity	GLAZE	SLEET	SNOW	FOG		Dew	Frost	
		1	Jan-13	Jan-23	13:09	Jan-09	Jan-29	Jan-07	Jan-26	Jan-26	Jan-14	5. Very Heavy							N- None No Dew Obs.	
		2										4. Heavy-Unusual							P- Precip. prevent obs.	
		3										3. Moderate - Ave.								
		4										2. Light - >= Ave.								
MINIMUM DATES		Dates	19.5	6		64	18	29.96	29.48	29.78	-0.45	1. Very Light - Slight - Trace								
		1	Jan-10	Jan-10		Jan-14	Jan-19	Jan-23	Jan-13	Jan-23	Jan-12	M - Event with intensity missing								
		2																		
Days Min. <=32 °F		21	MIN.	<=75	<=70	<=65	<=60	<=55	<=50	<=45	<=40	<=35	<=30	<=25	<=20	<=15	<=10	<=5		
Days Min >=70°F		0	DAYS	31	31	31	31	30	30	28	27	25	21	19	12	9	7	3		

Jan  
2018

## REMARKS FOR THE MONTH

January - 2018

Jan-01	COLDEST SINCE JAN 9, 2017 WHEN IT WAS 2.5°F - CUMULUS CLOUDS BET. 1300-1400-AM EST. 95-100% SUN AND PM EST. 20-30% CLOUDS
Jan-02	COLDEST SINCE JAN 9, 2017 - GLEN ALLEN'S 6TH COLDEST AM & A VERY CLEAR DAY
Jan-03	CIRRUS AND CIRROSTRATUS FROM DAYBREAK-LITTLE SUN THROUGH CLOUDS UNTIL 1100 & SNOW STARTED ABOUT 2230
Jan-04	CLEARING STARTED AT 1400 AND CLEAR BY 1500-AM 100% CLOUDS, PM EST. 45% CLOUDY
Jan-05	NO FROST BECAUSE OF WIND AND VERY LOW DEW POINT OF -4.7°F AT 1051-HOT WATER PIPE FROZE
Jan-06	3RD LOWEST MAX. ON RECORD-REC. IS 21.1°F IN FEB. 2015-NO CLOUDS TODAY-LOWEST MAX. SINCE FEB 16, 2015 AND THAT WAS CLOUDY DAY WITH SNOW
Jan-07	NEW REC. LOW FOR GLEN ALLEN OF -1.4°F -PREV. REC. WAS -1.2°F ON 2/20/2015-LOWEST DEW POINT WAS -8.5°F AT 0902-CIRRUS CLOUDS AFTER 1230
Jan-08	AM HUMIDITY WAS 51% AIR SO DRY NO FROST
Jan-09	FROST ON ROOFS NOT ON GROUND-INTERESTING FROST FORMED ON FROZEN RAIN & CLOSEST GLAZE WAS AT ORANGE CO. & CHARLOTTESVILLE, VA
Jan-10	CLOUDY AND DAMP-PM HAD THICK ALTOCUMULUS CLOUDS-COLD AIR DAMMING EAST OF BLUE RIDGE
Jan-11	ONLY MOSTLY CLEAR UNTIL 0815 & CLOUDS INCREASED TO CLOUDY BY 1045-EST. 70-75% CLOUDY FOR DAY
Jan-12	3RD PD. OF PRECIP. 1450-1645-VERY WARM FOR JAN-STRONG COLD FRONT APPROACHING AREA
Jan-13	COLD FRONT PASSED ABOUT 75 MINS. BEFORE MIDNIGHT - TEMP. DROPPED DURING DAY-MIN. WIND CHILL 18°F AT 1505
Jan-14	VERY COLD DAY WITH MIN. WIND CHILL OF 5.2°F AT 1241 & VERY CLEAR AM BUT PM HAD SCATTERED CIRRUS
Jan-15	AM WAS BREEZY WITH A LOW DEW POINT OF 7°F GIVING NO FROST-AM BROKEN OVERCAST FROM 0845 GIVING AM EST. OF 55-65% CLOUDY
Jan-16	FROST AND FROZEN FOG ON TREES LOOKED LIKE SNOW WHERE FOG WAS HEAVY-FOG UNTIL 0900-PM THIN CIRRUS & CIRROSTRATUS THAT BECAME THICKER- SOME SUN THRU CLOUDS
Jan-17	TEMP. FELL DURING DAY-SECONDARY STREET BECAME VERY ICY WITH BLACK ICE
Jan-18	VERY COLD AM BUT MOST OF ICE ON STREETS MELTED BY NOON-VERY COLD DAY
Jan-19	VERY DRY AIR & VERY DEEP BLUE SKY WITH 13 DEGREE WARMER TEMP. TODAY-MOST OF SNOW HAS MELTED
Jan-20	AM REL. HUMIDITY ONLY 46% AT 0052-VERY DRY AIR MASS-VERY CLEAR DAY-ALL SNOW MELTED
Jan-21	FROST ON ROOFS-A LITTLE FROST ON DECK-CLOUDS CAME IN AT 1415 AND CLOUDY BY 1515-PM EST. 50-55% CLOUDY
Jan-22	SUN THROUGH CIRROSTRATUS ALL DAY UNTIL 1700 THEN LOWERED TO ALTOSTRATUS
Jan-23	AM WAS CLOUDY WITH NIMBUS AND CUMULUS BUT PC FROM 1030-1045 THEN MOSTLY CLOUDY UNTIL 1415 THEN CLEAR-AFTER 1415 PM WAS 40% CLOUDY
Jan-24	MOSTLY CLEAR UNTIL 0915 THEN PC TO 1130 THEN STRATOCUMULUS AND COMPLETELY CLOUDY AFTER 1230
Jan-25	VERY CLEAR DAY ONLY A FEW FAIR CUMULUS FROM 1115-1345
Jan-26	CIRRUS AFTER 1220 VERY CLEAR AM -PM EST. 30-35% CLOUDY
Jan-27	AM REL. HUMIDITY ONLY 57%-CLOUDS CAME IN AT 1330 AND CLOUDY BY 1600 BUT A WARM DAY
Jan-28	ALL DAY RAIN BUT GENERALLY LIGHT AND STEADY & WILL CONTINUE INTO TOMORROW
Jan-29	A LITTLE SLUSH SEEN IN LARGE RAIN DROPS ON WINDSHIELD AT 1230-1245
Jan-30	CLEARING STARTED AFTER A LITTLE SNOW AT 0945 AND WAS CLEAR BY 1300-AM EST. 50% CLOUDY
Jan-31	ANOTHER COLD MORNING- AM CLOUDS CLEARED AT 0915 THEN CLOUDY AGAIN AT 1230- AM EST 40 TO 50% CLOUDY AND THE PM WAS ABOUT 70% CLOUDY

DATE

EXTENSION OF LENGTHY DAILY REMARKS

Jan-07

**NEW RECORD LOW TEMPERATURE FOR GLEN ALLEN OF -1.4°F - THE PREVIOUS RECORD WAS -1.2°F ON 2/20/2015 - LOWEST DEW POINT TODAY WAS -8.5°F**

The daily records for the month are listed on page # 4 and not found in the remarks.

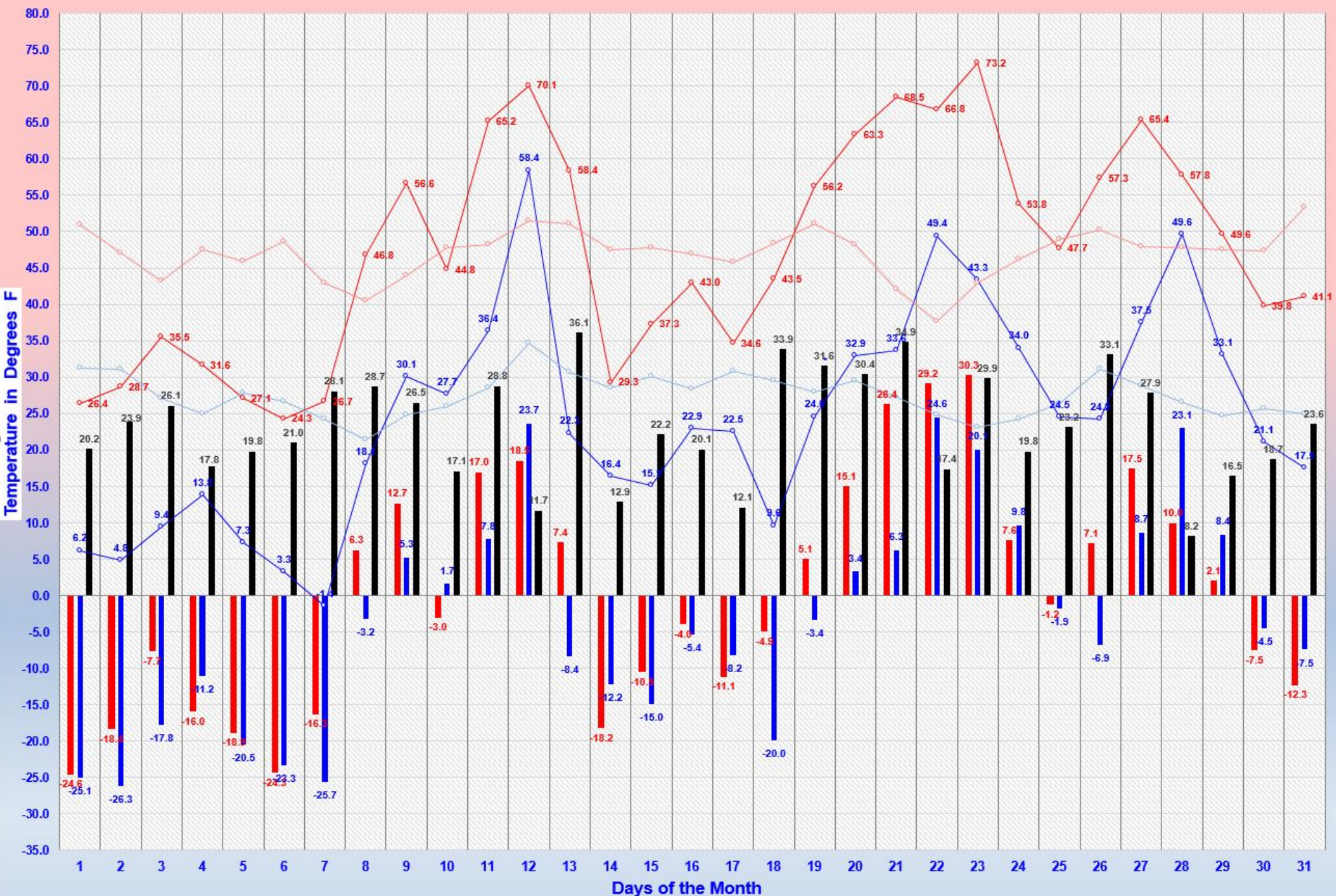
The link below explains how observations are taken at the Glen Allen Weather Station - Note the Numbers match the column numbers on the Observation Sheet

[www.glenallenweather.com/upload/glenallencimate/log/2017/2017\\_Obs\\_Rules.pdf](http://www.glenallenweather.com/upload/glenallencimate/log/2017/2017_Obs_Rules.pdf)

The Glen Allen Station had 37 Records or Record Ties in January 2018 (Remarks about records in red)

1-	The minimum temperature on the 1st was 6.2°F, a new 9-year LOW daily minimum temperature record for the date - the old record was 17°F in 2009. The maximum temperature on the 1st was 26.4°F, a new 9-year cold daily maximum temperature record for the date - the old record was 38°F in 2009.
2-	The minimum temperature on the 2nd was 4.8°F, a new 9-year LOW daily minimum temperature record for the date - the old record was 20°F in 2010. <b>Remark- The minimum temperature last night was 4.8°F the lowest minimum temperature since January 9, 2017 when the minimum temperature was 2.5°F.</b> <b>Remark- This is also the 6th lowest minimum temperature on record for Glen Allen.</b>
3-	The maximum temperature on the 2nd was 28.7°F, a new 9-year cold daily maximum temperature record for the date - the old record was 31°F in 2010. <b>The minimum temperature on the 3rd was 9.4°F, a new 9-year LOW daily minimum temperature record for the date - the old record was 17°F in 2010.</b>
4-	The daily greatest snow on the 3rd was 0.2 inches, and is a new 8-year daily greatest snow record for the date - the old record was a trace in 2014. The maximum temperature on the 4th was 31.6°F, a new 9-year cold daily maximum temperature record for the date - the old record was 37°F in 2010. The daily precipitation on the 4th was 0.22 inches, a new 9-year HIGH daily precipitation record for the date - the old record was 0.04 inches in 2015. The daily greatest snow on the 4th was 1.7 inches, and is a new 8-year daily greatest snow record for the date - the old record was a trace in 2016. <b>The minimum temperature on the 4th was 13.8°F, a new 9-year LOW daily minimum temperature record for the date - the old record was 14°F in 2014.</b>
5-	The minimum temperature on the 5th was 7.3°F, a new 9-year LOW daily minimum temperature record for the date - the old record was 15.8°F in 2016. The maximum temperature on the 5th was 27.1°F, a new 9-year cold daily maximum temperature record for the date - the old record was 32.5°F in 2016.
6-	The minimum temperature on the 6th was 3.3°F, a new 9-year LOW daily minimum temperature record for the date - the old record was 13.9°F in 2016. <b>Remark- The minimum temperature last night was 3.3°F the lowest minimum temperature since January 9, 2017 when the minimum temperature was 2.5°F.</b> <b>Remark- This is also the 4th lowest minimum temperature on record for Glen Allen and our record longest cold period on record.</b>
7-	The maximum temperature on the 6th was 24.3°F, a new 9-year cold daily maximum temperature record for the date - the old record was 36.3°F in 2017. The minimum temperature on the 7th was -1.4°F, a new 9-year LOW daily minimum temperature record for the date - the old record was 7°F in 2014. <b>Remark- The minimum temperature last night was -1.4°F the lowest minimum temperature on record at the Glen Allen station; the previous record was -1.2°F on 2-20-2015.</b>
8-	The daily precipitation on the 8th was 0.14 inches, a new 9-year HIGH daily precipitation record for the date - the old record was 0.06 inches in 2016.
11-	The maximum temperature on the 11th was 65.2°F, a new 9-year daily HIGH maximum temperature record for the date - the old record was 63°F in 2014.
12-	The minimum temperature on the 12th was 58.4°F, a new 9-year warm daily minimum temperature record for the date - the old record was 50.1°F in 2017. The daily precipitation on the 12th was 0.76 inches, a new 9-year HIGH daily precipitation record for the date - the old record was 0.73 inches in 2015.
13-	The daily temperature range on the 13th was 36.1°F, a new 9-year HIGH daily temperature range record for the date - the old record was 32°F in 2010.
14-	The minimum temperature on the 14th was 16.4°F, a new 9-year LOW daily minimum temperature record for the date - the old record was 18°F in 2011. The maximum temperature on the 14th was 29.3°F, a new 9-year cold daily maximum temperature record for the date - the old record was 30.9°F in 2015.
18-	The minimum temperature on the 18th was 9.8°F, a new 9-year LOW daily minimum temperature record for the date - the old record was 15.8°F in 2016. The daily temperature range on the 18th was 33.9°F, a new 9-year HIGH daily temperature range record for the date - the old record was 32°F in 2012.
19-	The daily temperature range on the 19th was 31.6°F, a new 9-year HIGH daily temperature range record for the date - the old record was 29°F in 2010.
20-	The maximum temperature on the 20th was 63.3°F, a new 9-year daily HIGH maximum temperature record for the date - the old record was 62°F in 2013.
21-	The maximum temperature on the 21st was 68.5°F, a new 9-year daily HIGH maximum temperature record for the date - the old record was 55°F in 2013. The daily temperature range on the 21st was 34.9°F, a new 9-year HIGH daily temperature range record for the date - the old record was 29°F in 2013.
22-	The minimum temperature on the 22nd was 49.8°F, a new 9-year warm daily minimum temperature record for the date - the old record was 48.8°F in 2017. The maximum temperature on the 22nd was 66.8°F, a new 9-year daily HIGH maximum temperature record for the date - the old record was 51.2°F in 2017.
23-	The minimum temperature on the 23rd was 43.3°F, a new 9-year warm daily minimum temperature record for the date - the old record was 38.8°F in 2017. The maximum temperature on the 23rd was 73.2°F, a new 9-year daily HIGH maximum temperature record for the date - the old record was 62°F in 2009.
26-	The daily temperature range on the 26th was 33.1°F, a new 9-year HIGH daily temperature range record for the date - the old record was 29.6°F in 2017.
28-	The daily precipitation on the 28th was 0.66 inches, a new 9-year HIGH daily precipitation record for the date - the old record was 0.28 inches in 2009. The minimum temperature on the 28th was 47°F, a new 9-year warm daily minimum temperature record for the date - the old record was 32°F in 2013 and 2010. The daily temperature range on the 28th was 10.8°F, a new 9-year LOW daily temperature range record for the date - the old record was 13°F in 2014 and 2009.
29-	The daily precipitation on the 29th was 0.63 inches, a new 9-year HIGH daily precipitation record for the date - the old record was 0.14 inches in 2017. <b>Days without records have been omitted to make room for the many records of this unusual January.</b>

# TEMPERATURE GRAPH FOR JANUARY



■ High-Departure   
 ■ Low-Departure   
 ■ Range   
 ○ High   
 ○ Low   
 ○ Ave-High   
 ○ Ave-Low