

		TEMPERATURE °F		TEMPERATURE °F				SKY		PRECIPITATION			FROZ. PRECIP.		1st PERIOD			
Dec 2017	Week Day	MAX.	Time	MIN.	Time	RANGE	MEAN	CHANGE	SOIL	AM	PM	Liquid	1 Hr.	5 Min.	NEW	GROUND	START	END
Dec-01	Fri	59.4	13:42	35.3	23:57	24.1	47.4	-4.6	51	0	0							
Dec-02	Sat	52.4	13:22	29.4	5:34	23	40.9	-6.5	50	2	2							
Dec-03	Sun	59.8	13:29	35.9	3:12	23.9	47.9	7.0	49	0	0							
Dec-04	Mon	58.7	13:08	29.7	7:16	29	44.2	-3.6	49	1	2							
Dec-05	Tue	64.9	14:58	41.3	0:42	23.6	53.1	8.9	49	2	2	0.06	0.05	0.01			1855	2400
Dec-06	Wed	57.5	0:27	42.0	23:52	15.5	49.8	-3.4	51	2	2	T	T	T			0130	0300
Dec-07	Thu	50.5	14:21	37.6	6:19	12.9	44.1	-5.7	51	2	2							
Dec-08	Fri	41.9	12:19	32.3	23:43	9.6	37.1	-7.0	50	2	2	0.56	0.22	0.02	3.8	1.5	1245	2400
Dec-09	Sat	33.7	14:39	31.9	4:04	1.8	32.8	-4.3	49	2	2	0.21	0.06	0.01	1.4	4.0	0001	1825
Dec-10	Sun	41.9	11:17	25.8	7:15	16.1	33.9	1.1	48	0	0	T	T	T	T	2.5	0125	0130
Dec-11	Mon	52.3	13:41	26.7	7:17	25.6	39.5	5.7	47	0	0					T		
Dec-12	Tue	54.2	13:40	25.1	23:57	29.1	39.7	0.2	46	2	2	0.01	0.01	T	0.1	None	1820	1558
Dec-13	Wed	36.8	13:37	18.0	5:03	18.8	27.4	-12.3	46	0	1							
Dec-14	Thu	52.0	13:57	30.9	23:15	21.1	41.5	14.1	44	2	1							
Dec-15	Fri	33.6	15:11	21.2	23:27	12.4	27.4	-14.1	44	2	2							
Dec-16	Sat	49.7	14:01	20.6	4:18	29.1	35.2	7.8	43	0	0							
Dec-17	Sun	53.4	12:12	27.3	6:53	26.1	40.4	5.2	43	2	2	0.01	0.01	T			1600	1605
Dec-18	Mon	62.9	14:43	33.7	7:24	29.2	48.3	8.0	44	0	0							
Dec-19	Tue	65.2	13:48	36.3	6:43	28.9	50.8	2.5	45	0	1							
Dec-20	Wed	55.5	10:04	33.0	23:47	22.5	44.3	-6.5	46	2	2	T	T	T				
Dec-21	Thu	49.8	14:44	29.2	7:33	20.6	39.5	-4.8	46	0	0							
Dec-22	Fri	61.1	14:51	33.9	7:26	27.2	47.5	8.0	45	2	2							
Dec-23	Sat	67.8	14:24	49.1	23:57	18.7	58.5	11.0	46	2	2	0.14	0.09	0.09			1410	1655
Dec-24	Sun	49.1	0:01	40.9	23:42	8.2	45.0	-13.5	48	2	2							
Dec-25	Mon	41.7	1:31	31.0	21:05	10.7	36.4	-8.7	48	0	2							
Dec-26	Tue	40.6	14:45	27.6	6:32	13	34.1	-2.3	46	2	2							
Dec-27	Wed	39.7	13:55	20.1	23:55	19.6	29.9	-4.2	45	2	0							
Dec-28	Thu	27.0	13:16	13.7	6:43	13.3	20.4	-9.6	43	0	0							
Dec-29	Fri	39.5	14:24	16.2	0:41	23.3	27.9	7.5	41	0	0							
Dec-30	Sat	36.3	15:58	24.1	6:05	12.2	30.2	2.4	41	2	2							
Dec-31	Sun	26.2	12:32	15.3	23:08	10.9	20.8	-9.5	40	1	2							
TOTAL NUMBER		1515		915		600.0	1215.1	-31.2	1434	36	39	0.99	0.44	0.13	5.3	8.0	Col.26-27	
AVERAGE		31	31	31	31	31	31	31	31	31	31	6	6	4	3	3	DAILY AVE RH	
Normals		48.87	12:28	29.52	12:32	19.35	39.20		46.26	1.16	1.26	Ave. Tot.	Ave. Max	Ave. Max	Ave. Tot.	Ave. Days	67.95	Percent
EPARTURES		52.48		33.08		19.39	42.78		47.0	1.11	1.18	4.54	0.57	0.10	5.2	2.0	70.5	Percent
		-3.60		-3.57		-0.04	-3.58		-0.8	0.05	0.08	-3.55	-0.13	0.03	0.1	6.0	-2.6	Percent
MaxTemps. >= 70°F		67.8		49.1		29.2	58.5	14.1	51	Whole Day		0.56	0.22	0.09	3.8	4.0	Precip	24 Hr.
2017	0	Dec-23		Dec-23		Dec-18	Dec-23	Dec-14	Dec-01	AVERAGE		Dec-08	Dec-08	Dec-23	Dec-08	Dec-09	Amount	0.69
Ave.	0.0								Dec-06	NORMAL							Date	Dec 08
Departure	0.0								Dec-07	DEPART.							Date	Dec 09
MinTemps. <= 32°F		26.2		13.7		1.8	20.4	-14.1	40	SKY		≥ 0.10 INCHES			≥ 1.00 INCHES		≥ 2.00 INCHES	
2017	20	Dec-31		Dec-28		Dec-09	Dec-28	Dec-15	Dec-31	AM	PM	3 DAYS			0 DAYS		0 DAYS	
Ave.	26.7									CLEAR	12	10	HOTTEST			COOLEST		20.4
Departure	-6.7									PT. CLO.	2	3	DAY		Mean		DAY	
										CLOUDY	17	18	12-23		Mean		12-28	
Days Max. <=32 °F	2			MAX.		≥ 80	≥ 75	≥ 70	≥ 65	≥ 60	≥ 55	≥ 50	≥ 45	≥ 40	≥ 35	≥ 30	≥ 25	≥ 20
Days Max. >=90°F	0			DAYS		0	0	0	3	6	10	18	19	25	27	29	31	31

PAGE #2		Dec		2017		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
Dec 2017	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					
Dec-01			59.5	21	9:38	93	44	30.30	30.04	30.17	0.01								4	
Dec-02			9.3	8	12:12	97	66	30.31	30.20	30.26	0.08									5
Dec-03			17.6	10	14:13	97	61	30.31	30.15	30.23	-0.03								4	
Dec-04			31.5	13	13:54	98	46	30.44	30.30	30.37	0.14									5
Dec-05			96.7	25	15:14	97	74	30.33	29.94	30.14	-0.24								4	
Dec-06	0400	0405	60.5	17	4:09	94	51	30.13	29.90	30.02	-0.12								P	
Dec-07			41.7	13	13:38	71	40	30.17	30.06	30.12	0.10								N	
Dec-08			23.3	9	8:05	95	56	30.14	30.00	30.07	-0.05								N	
Dec-09			8.2	9	13:30	96	94	30.02	29.79	29.91	-0.16		1		3	2	1		P	
Dec-10	0215	0225	60.1	15	21:45	97	63	30.15	29.90	30.03	0.12				1					P
Dec-11			66.5	13	0:52	89	44	30.13	29.87	30.00	-0.02									1
Dec-12			131.1	25	21:15	85	42	29.88	29.53	29.71	-0.30				1				N	
Dec-13			93.6	22	23:54	69	34	29.94	29.64	29.79	0.09									P
Dec-14			113.9	22	6:27	67	39	30.12	29.59	29.86	0.07								N	
Dec-15			45.3	12	8:51	87	60	30.12	29.94	30.03	0.18									N
Dec-16			91.3	20	15:00	91	41	30.25	30.08	30.17	0.13									4
Dec-17	1720	1940	27.7	9	15:59	88	46	30.30	30.16	30.23	0.07									3
Dec-18			53.3	14	11:56	94	56	30.17	30.00	30.09	-0.15								P	
Dec-19			74.3	16	12:22	98	40	30.05	29.90	29.98	-0.11									5
Dec-20			30.3	10	10:17	85	50	30.06	29.89	29.98	0.00									N
Dec-21			45.0	11	8:44	91	42	30.28	30.05	30.17	0.19									3
Dec-22			74.2	18	14:01	88	50	30.27	30.08	30.18	0.01									1
Dec-23	1915	1950	170.0	31	10:43	94	74	30.08	29.70	29.89	-0.28									N
Dec-24			101.0	19	5:55	82	68	30.20	29.87	30.04	0.15									P
Dec-25			103.3	26	7:20	89	36	30.40	29.83	30.12	0.08									N
Dec-26			30.8	10	12:16	71	37	30.54	30.38	30.46	0.35									N
Dec-27			86.9	23	21:23	77	44	30.61	30.41	30.51	0.05									1
Dec-28			88.6	16	5:41	66	35	30.70	30.50	30.60	0.09									N
Dec-29			50.8	12	8:29	69	33	30.50	30.24	30.37	-0.23									N
Dec-30			62.7	12	6:46	74	57	30.26	29.96	30.11	-0.26									N
Dec-31			134.4	20	7:58	70	31	30.46	30.20	30.33	0.22									N
TOTAL NUMBER AVERAGE	Column 23		2083.4	501		2659	1554	937.62	930.10	933.86	TOTAL	0	1	4	2	0	5	7		
	Max. Wind Run		31	31	31	31	31	31	31	31	NORMAL	0.0	0.3	0.8	2.6	0.8	11.1	8.8		
Normal	Total	2083.4	67.21	16.16	11:41	85.77	50.13	30.25	30.00	30.12	DEPART.	0.0	0.7	3.2	-0.6	-0.8	-6.1	-1.8		
DEPARTURES	Miles	1494.4	50.3	17.6		90.7	50.3	30.25	29.98	30.11	Rating ▶	0	1	7	3	0	18	22		
	Miles	589.0	2033.1	-1.5		-4.9	-0.2	0.00	0.02	0.01	Intensity	GLAZE	SLEET	SNOW	FOG	R	Dew	Frost		
MAXIMUM DATES		Dates	#REF!	31	SSW	98	94	30.70	30.50	30.60	0.35									
	1			Dec-23		Dec-04	Dec-09	Dec-28	Dec-28	Dec-28	Dec-26									
	2																			
	3																			
	4																			
MINIMUM DATES		Dates	#REF!	8		66	31	29.88	29.53	29.71	-0.30									
	1			Dec-02		Dec-28	Dec-31	Dec-12	Dec-12	Dec-12	Dec-12									
	2																			
Days Min. <=32 °F		20		≤ 65	≤ 60	≤ 55	≤ 50	≤ 45	≤ 40	≤ 35	≤ 30	≤ 25	≤ 20	≤ 15	≤ 10	≤ 5	≤ 0			
Days Min >=70 °F		0		31	31	31	31	30	27	24	16	9	5	1	0	0	0			

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.

39

40

Dec 2017	REMARKS FOR THE MONTH December - 2017
---------------------	--

Dec-01	90% OF LEAVES HAVE NOW FALLEN FROM TREES-A LITTLE COOLER BUT FULL SUN & PLEASANT DEC. AFTERNOON-NO CLOUDS ALL DAY
Dec-02	CLOUDY DAY AND CHILLY AFTER THE WARM WEATHER OF END OF NOV.
Dec-03	CLOUDY UNTIL 0800 THEN CLEAR REST OF DAY
Dec-04	THIN AM CIRRUS GAVE PC SKIES-PM PARTLY CLOUDY TO 1600 THEN ALTOCUMULUS THEN BACK TO CIRRUS
Dec-05	AM WAS CLOUDY AND GLOOMY-SOME CLEARING AROUND 1300 BUT PM STILL AVERAGED 65-75% CLOUDY
Dec-06	ONLY SPRINKLES AFTER MIDNIGHT-CLOUDY ALL DAY EXCEPT 1130-1230 WITH A FEW PDS. OF SUN
Dec-07	CLOUDY ALL DAY EXCEPT 1215-1430-PM EST. 65-75% CLOUDY
Dec-08	SNOW STARTED AT 1350-LOWEST TEMP. WAS 32.3°F AT MIDNIGHT-MUCH MELTING DURING SNOW-MORE SNOW MEASURED ON ELEVATED SNOWBOARD AS OPPOSED TO WARM GROUND
Dec-09	GRAUPEL SLEET & FROZEN DRIZZLE TODAY-LIGHT SNOW MOST OF DAY BUT LITTLE WIND - ANEMOMETER FROZE FROM 1600 ON 8TH TO NOON TODAY
Dec-10	3RD SNOW FLURRY 0320-0330-4 INS. OF SNOW ON BOARD AND 3 INS. OF SNOW ON GROUND-SCATTERED CUMULUS FROM 1330-1500
Dec-11	MOST OF SNOW MELTED-NO CLOUDS TODAY-ONLY A LIGHT BREEZE
Dec-12	ARCTIC COLD FRONT PRODUCED SNOW SHOWER THAT GAVE 0.1 IN. OF SNOW-NO SNOW ON GROUND AT SUNSET
Dec-13	COLDEST SINCE JAN. 10, 2017 WHEN IT WAS 17.1°F -CLEAR AM - CLOUDS CAME IN AT 1515 AND PM WAS EST. 50-60% CLOUDY
Dec-14	CLEARING STARTED AT 1015 AND MOSTLY CLEAR BY 1115-CIRRUS FROM NOON TO SUNSET-AM EST. 70% CLOUDY - PM EST. 55-60% CLOUDY
Dec-15	EARLY AM REL. HUMIDITY WAS ONLY 66% WITH BREEZY CONDITIONS - NO FROST-CLOUDY COLD DAY FELT LIKE SNOW ALL DAY BUT NONE-LIGHT SNOW IN NE VA, WASHINGTON & BALTIMORE
Dec-16	SUNNY AND MUCH WARMER - HEAVY AM FROST-WEATHER LINK COMPUTER REC. 20 MPH GUST MORE THAN VIRTUAL WEATHER PROGRAM ON COMPUTER 1
Dec-17	CLOUDY ALL DAY BUT IN AM OVERCAST WAS BROKEN AND PM WAS SOLID
Dec-18	ONLY SCATTERED CIRRUS MOST OF DAY - BOTH AM AND PM EST. AT 10-20% CLOUDY
Dec-19	CLEAR UNTIL 0900 THEN SCATTERED CIRRUS TO NOON-PM WAS ABOUT 50-60% COVERAGE WITH CIRRUS
Dec-20	RAIN IN NC AND CLOUDY HERE ALL DAY WITH QUICK SPRINKLE AROUND 2030
Dec-21	TYPICAL WINTER'S DAY BUT SUNNY WITH ONLY FEW THIN CIRRUS TO NORTH OBSERVED
Dec-22	CIRROSTRATUS COVERED MOST OF SKY ALL DAY BUT WAS THIN ENOUGH FOR SOME SUNLIGHT TO PASS THROUGH
Dec-23	MOSTLY CLOUDY ALL DAY WITH AFTERNOON LIGHT SHOWERS AND VERY WINDY AND WARM
Dec-24	CLOUDY ALL DAY AND MUCH COOLER
Dec-25	CLEAR UNTIL 1000 THEN PC TO 1215 AND CLOUDY REST OF DAY
Dec-26	SOME CLEARING AT 1215 BUT CLOUDY REST OF DAY AFTER 1415
Dec-27	CLEARING STARTED AT NOON AND VERY CLEAR FROM 1245-1530 AND COLD
Dec-28	COLDEST SINCE JAN. 9, 2017 WHEN IT WAS 2.5°F -VERY DRY AIR WITH MIN. DEW POINT OF 1.4°F AT 1557
Dec-29	VERY DRY AIR - NO FROST MIN. DEW POINT 6.1°F AT 0644-AM CLOUDS CLEARED AT 0830 AND CAME BACK AT 1615-AM EST. AT 25% CLOUDY
Dec-30	CLOUDY ALL DAY WITH MAINLY ALTOSTRATUS AND LATE AFTERNOON ALTOCUMULUS WITH FEW BREAKS IN EVENING SKY
Dec-31	CLEAR BUT A VERY COLD FOR GLEN ALLEN WITH A LOW MAX. TEMP WHICH WAS A NEW RECORD FOR THE DATE AND VERY DRY AIR-MIN. DEW POINT -0.9°F AT 1257- AM EST. OF 50 TO 60% CLOUDY

DATE	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

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

DAILY RECORDS FOR THE MONTH

41

Dec
2017

The Glen Allen Station had 24 Records or Record Ties in December 2017

1	
2	
3	
4	
5	
6	
7	
8	The daily greatest snow on the 8th was 3.8 inches, and is a new 8-year daily greatest snow record for the date - the old record was 0.1 inches, in 2013.
9	The maximum temperature on the 9th was 33.7°F, a new 9-year cold daily maximum temperature record for the date - the old record was 38°F in 2013. The daily temperature range on the 9th was 1.8°F, a new 9-year LOW daily temperature range record for the date - the old record was 6°F in 2013 and 2012.
	The daily greatest snow on the 9th was 1.4 inches, and is a new 8-year daily greatest snow record for the date - the old record was 0 inches.
10	The daily greatest snow on the 10th was Trace, and is a new 8-year daily greatest snow record for the date - the old record was 0 inches.
11	The daily temperature range on the 11th was 25.6°F, a new 9-year HIGH daily temperature range record for the date - the old record was 24.1°F in 2014.
12	The daily temperature range on the 12th was 29.1°F, a new 9-year HIGH daily temperature range record for the date - the old record was 25°F in 2009. The daily greatest snow on the 12th was 0.1 inches, a new 9 year daily greatest snow record for the date - the old record was 0 inches.
13	The minimum temperature on the 13th was 18°F, a new 9-year LOW daily minimum temperature record for the date - the old record was 19°F in 2010. The maximum temperature on the 13th was 36.8°F, a new 9-year cold daily maximum temperature record for the date - the old record was 38°F in 2010.
14	
15	The daily temperature range on the 15th was 5.9°F, a new 9-year LOW daily temperature range record for the date - the old record was 19°F in 2009. The maximum temperature on the 15th was 33.6°F, a new 9-year cold daily maximum temperature record for the date - the old record was 36°F in 2010.
16	The daily temperature range on the 16th was 29.1°F, a new 9-year HIGH daily temperature range record for the date - the old record was 26°F in 2008.
17	
18	The daily temperature range on the 18th was 29.2°F, a new 9-year HIGH daily temperature range record for the date - the old record was 28.9°F in 2016.
19	
20	
21	
22	The daily temperature range on the 22nd was 27.2°F, a new 9-year HIGH daily temperature range record for the date - the old record was 26.1°F in 2016.
23	
24	
25	
26	
27	The maximum temperature on the 27th was 39.7°F, a new 9-year cold daily maximum temperature record for the date - the old record was 40°F in 2010. The minimum temperature on the 27th was 20.1°F, a new 9-year LOW daily minimum temperature record for the date - the old record was 23°F in 2013.
28	The minimum temperature on the 28th was 13.7°F, a new 9-year LOW daily minimum temperature record for the date - the old record was 22°F in 2010. The maximum temperature on the 28th was 27°F, a new 9-year cold daily maximum temperature record for the date - the old record was 44°F in 2009. The daily temperature range on the 28th was 13.3°F, a new 9-year LOW daily temperature range record for the date - the old record was 13.7°F in 2014.
29	The minimum temperature on the 29th was 16.2°F, a new 9-year LOW daily minimum temperature record for the date - the old record was 23°F in 2010. The maximum temperature on the 29th was 39.5°F, a new 9-year cold daily maximum temperature record for the date - the old record was 40°F in 2009.
30	
31	The minimum temperature on the 31st was 15.3°F, a new 9-year LOW daily minimum temperature record for the date - the old record was 22°F in 2012. The maximum temperature on the 31st was 26.2°F, a new 9-year cold daily maximum temperature record for the date - the old record was 39°F in 2009.

TEMPERATURE GRAPH FOR DECEMBER

