PAGE #1		Dec	2018		West Henrico Co Glen Allen Weather Center 37.65537° N. 77.56929° W Koontz													
1 Dog	2	3	4 TEMPEDA	5	6	7	8 TEMPEDA	9	10	11	12	13	14	15 ON	16	17	18	19
Dec 2018	Week	MAX.	TEMPERA	MIN.	T:	RANGE	TEMPERA		0011	SKY		Liquid	ECIPITATION			PRECIP.	1st PERIOD	
	Day	1	Time		Time		MEAN	CHANGE	SOIL	AM	PM	•	1 Hr.	5 Min.	NEW	GROUND	START	END
Dec-01 Dec-02	Sat	44.5 58.8	23:56 22:31	41.3 43.2	0:27	3.2	42.9	-2.5	46 47	2	2	0.12 0.10	0.07 0.05	0.01			0815 0001	1055 0510
Dec-02 Dec-03	Sun Mon	64.2	12:13	38.0	6:25 23:53	15.6 26.2	51.0 51.1	8.1 0.1	47	2	1	0.10	0.05	0.01			0001	0510
Dec-03 Dec-04	Tue	49.0	11:45	32.7	6:01	16.3	40.9	-10.3	49	2	2	т	Т	Т	Т	0.0	2135	2145
Dec-04 Dec-05	Wed	39.7	10:01	27.0	20:52		33.4	-7.5		2	2	0.01	0.01	T	0.1	0.0		0025
Dec-05	Thu	46.0	14:17	22.6	7:06	12.7 23.4	34.3	0.9	48 47	0	1	0.01	0.01	- 1	0.1	0.0	0003	0025
Dec-00 Dec-07	Fri	48.7	13:08	26.9	23:04	21.8	37.8	3.5	46	0	1							
Dec-07 Dec-08	Sat	43.1	12:29	25.0	7:17	18.1	34.1	-3.8	45	1	2							
Dec-00	Sun	33.0	0:02	28.9	9:00	4.1	31.0	-3.1	45	2	2	1.16	0.22	0.02	11.9	8.5	0735	2100
Dec-03 Dec-10	Mon	38.6	12:58	23.6	23:20	15	31.1	0.2	44	2	0	T T	T	T	T T	9.0	0001	0035
Dec-11	Tue	44.4	13:47	20.1	7:41	24.3	32.3	1.2	43	0	0	<del></del>			<u> </u>	7.0		0000
Dec-11	Wed	47.3	13:57	20.4	5:49	26.9	33.9	1.6	42	2	2				<u> </u>	4.5		
Dec-13	Thu	44.3	11:04	30.8	0:10	13.5	37.6	3.7	42	2	2					2.5		
Dec-14	Fri	46.1	23:57	28.7	3:42	17.4	37.4	-0.1	42	2	2	0.17	0.07	0.01		0.5	1320	1905
Dec-15	Sat	54.0	14:04	46.1	0:01	7.9	50.1	12.7	42	2	2	0.35	0.08	0.01		0.0	0005	0700
Dec-16	Sun	51.3	0:01	35.5	23:58	15.8	43.4	-6.7	45	2	2	0.08	0.03	0.01			0340	0445
Dec-17	Mon	57.0	12:20	31.6	5:26	25.4	44.3	0.9	45	1	2							
Dec-18	Tue	49.0	14:13	27.7	4:49	21.3	38.4	-6.0	45	0	0							
Dec-19	Wed	52.5	14:00	24.4	4:56	28.1	38.5	0.1	44	1	0							
Dec-20	Thu	64.6	23:59	32.6	0:08	32	48.6	10.2	43	2	2	0.52	0.16	0.01			1140	2400
Dec-21	Fri	68.6	14:26	48.9	23:59	19.7	58.8	10.2	45	2	1	0.11	0.02	0.01			0001	0710
Dec-22	Sat	57.1	12:37	33.3	23:58	23.8	45.2	-13.6	48	1	0	Т	Т	Т			0025	0035
Dec-23	Sun	52.5	13:55	27.4	7:02	25.1	40.0	-5.3	47	0	0	Т	Т	Т			1905	1925
Dec-24	Mon	51.4	12:58	29.8	23:50	21.6	40.6	0.6	46	1	0							
Dec-25	Tue	43.5	12:16	25.2	7:36	18.3	34.4	-6.3	45	1	2							
Dec-26	Wed	49.7	14:34	23.2	6:46	26.5	36.5	2.1	43	0	0							
Dec-27	Thu	52.3	13:12	25.0	7:16	27.3	38.7	2.2	43	2	2	0.01	0.01	Т			2230	2400
Dec-28	Fri	61.1	9:12	45.0	2:37	16.1	53.1	14.4	43	2	2	1.75	0.41	0.09			0001	1605
Dec-29	Sat	65.5	12:59	41.0	23:59	24.5	53.3	0.2	46	0	1							
Dec-30	Sun	53.2	14:51	37.3	7:01	15.9	45.3	-8.0	47	2	2							
Dec-31	Mon	62.9	23:59	38.8	0:12	24.1	50.9	5.6	46	2	2	0.13	0.05	0.01			0830	1525
TOTAL		1594		982		611.9	1288.0	5.5	1398	42	41	4.51	1.18	0.19	12.0	32.0		26-27
NUMBER		31	31	31	31	31	31	31	31	31	31	12	12	10	2	9		AVE RH
AVERAGE	ala.	51.42	13:51	31.68	10:16	19.74	41.55		45.10	1.35	1.32	Ave. Tot.	Ave.Max	Ave.Max	Ave.Tot.	Ave.Days	79.34	Percent
Norm		52.12		32.73		19.39	42.42		46.9	1.12	1.19	4.18	0.54	0.10	2.9	2.1	70.5	Percent
EPARTURE	_	-0.70		-1.05		0.35	-0.88		-1.8	0.24	0.14	0.33	0.64	0.09	9.1	29.9	8.8	Percent
MaxTemps.		68.6	Ave.HighMax	48.9	Ave.High Min	32	58.8	14.4	49	Whole	Day	1.75	0.41	0.09	11.9	9.0	Precip	24 Hr.
2018		Dec-21	70.9	Dec-21	52.4	Dec-20	Dec-21	Dec-28	Dec-03	AVERAGE	1.34	Dec-28	Dec-28	Dec-28	Dec-09	Dec-10	Amount	1.76
Ave.			Dep.		Dep.				Dec-04	NORMAL	1.13						Date	Dec 27
Departure	-1.6	00.0	-2.3	00.4	-3.5	0.0	04.0	40.0	40	DEPART.	0.21	P	> 6 15				Date	Dec 28
MinTemps.		33.0	Ave.LowMax	20.1	Ave.Low Min	3.2	31.0	-13.6	42	SKY	AM	PM	≥ 0.10	INCHES	≥ 1.00	INCHES	≥ 2.00	INCHES
2018		Dec-09	35.0	Dec-11	18.4	Dec-01	Dec-09	Dec-22	Dec-12	CLEAR	7	8	9	DAYS	2	DAYS	0	DAYS
Ave.	17.0		Dep.		Dep.				Dec-13	PT. CLO.	6	5	HOTTEST	58.8	Highest	Lowest	COOLEST	31.0
Departure Davs Max.	1.0	0	-2.0		1.7 MAX.	> 00	\	\	Dec-14	CLOUDY	18	18	DAY	12-21	Mean	Mean	DAY	12-09
Days Max.		0			MAX. DAYS	≥ 80 0	≥ 75 0	≥ 70 0	≥ 65 3	≥ 60 6	≥ 55 9	≥ 50 17	≥ 45 24	≥ 40 29	≥ 35 30	≥ 30 31	≥ 25 31	≥ 20 31
Dayo max.	00 1				57.10	,	•	,			,	- "		20	30	٥,	٧.	J.

PAGE #2	Dec	2018			Wes	st Henrico	Co Gle	en Allen V	Weather (	Center :	37.65537	° N. 77.	56929°	W Ko	ontz			
20	21	22	23	24	25	26	27	28 29 30 31		32	33	34	35	36	37	38		
Dec 2018	2nd Pi START	END	51111	WIND MAX.	T11.F	MAX.	JMIDITY MIN.	BAROMETRIC PRESSURE  MAX. MIN. AVE. CHANGE			01.475	01 555	onew.	500	K	5514	FROST	
Dec-01	1640	2400	<b>RUN</b> 45.9	9	7:26	97	79	30.19	29.87	30.03	-0.02	GLAZE	SLEET	SNOW	FOG		DEW N	FROST
Dec-02	1030	1035	49.2	16	22:15	100	97	29.88	29.64	29.76	-0.02				3		P	
Dec-02	1030	1033	75.7	23	12:26	98	46	29.88	29.69	29.79	0.03				3		4	
Dec-03			66.0	18	8:06	95	54	30.12	29.88	30.00	0.03			1			1	3
Dec-05	1045	1230	24.6	9	13:53	96	63	30.26	30.05	30.16	0.16			1			N N	Ů
Dec-06	1043	1250	58.8	11	13:38	96	47	30.20	30.25	30.31	0.16							5
Dec-07			37.4	17	9:42	87	49	30.47	30.27	30.37	0.06							2
Dec-08			42.2	11	21:24	90	50	30.57	30.45	30.51	0.14							4
Dec-09	2212	2250	123.5	21	21:00	96	61	30.54	30.08	30.31	-0.20			5				N
Dec-10			92.9	17	10:23	95	63	30.21	30.05	30.13	-0.18			1				Р
Dec-11			47.7	10	14:47	96	52	30.21	30.04	30.13	-0.01							4
Dec-12			29.4	10	14:32	93	48	30.25	30.06	30.16	0.03							3
Dec-13			32.0	8	12:27	95	69	30.39	30.19	30.29	0.13						N	
Dec-14	2138	2150	50.2	12	19:25	99	86	30.42	30.09	30.26	-0.03						4	
Dec-15	0750	1230	63.0	12	3:48	99	97	30.09	29.86	29.98	-0.28				2		Р	
Dec-16	0650	0115	58.5	12	6:24	99	90	29.95	29.82	29.89	-0.09				1		Р	
Dec-17			58.7	16	12:09	100	56	29.98	29.85	29.92	0.03				4		Р	
Dec-18			37.8	15	9:09	95	45	30.21	29.98	30.10	0.18							5
Dec-19			52.8	15	13:48	96	45	30.23	30.09	30.16	0.07							5
Dec-20			75.5	25	22:05	99	76	30.09	29.44	29.77	-0.40						N	
Dec-21	1845	1905	148.1	32	13:55	96	62	29.44	29.18	29.31	-0.45						Р	
Dec-22			82.6	21	11:33	91	48	30.12	29.32	29.72	0.41						Р	
Dec-23			42.6	11	11:54	97	52	30.23	29.99	30.11	0.39							5
Dec-24			45.1	18	12:21	97	44	30.27	29.99	30.13	0.02							4
Dec-25			22.3	10	10:06	93	56	30.41	30.25	30.33	0.20							4
Dec-26			11.9	7	12:27	96	50	30.59	30.41	30.50	0.17							4
Dec-27			51.8	13	17:56	97	51	30.61	30.31	30.46	-0.04							5
Dec-28			64.4	18	22:22	99	94	30.31	29.88	30.10	-0.37				3		Р	
Dec-29			74.4	19	1:16	99	51	30.23	29.95	30.09	0.00						Р	
Dec-30			37.2	9	4:59	94	66	30.27	30.12	30.20	0.11				_		N	
Dec-31			73.3	20	22:30	99	93	30.29	29.88	30.09	-0.11				2		3	
TOTAL	Colun		1775.5	465		2979	1940	937.08	928.93	933.01	TOTAL	0	0	4	6	0	4	13
NUMBER	Max. Wi		31	31	31	31	31	31	31	31	NORMAL	0.0	0.3	0.7	2.9	0.7	11.4	9.0
AVERAGE Normals	Total Miles	1775.5 1605.1	57.27 50.6	15.00 17.5	13:13	96.10 90.7	62.58 50.3	30.23 30.25	29.97 29.98	30.10 30.11	DEPART.  Rating ▶	0.0	-0.3 <b>0</b>	3.3 8	3.1 15	-0.7 <b>0</b>	-7.4 12	4.0 53
											_	_			13	J	12	
DEPARTURES	Miles	170.4 Dates	1724.9	-2.5	South	5.4	12.3	-0.02	-0.02	-0.02	Intensity	GLAZE	SLEET	SNOW	FOG	K	Dew	Frost
			148.1	32		100	97	30.61	30.45	30.51	0.41	Ä	JE .	Ž	Б	1/	۵	퍞
	DATES	1	Dec-21	Dec-21	13:55	Dec-02	Dec-02	Dec-27	Dec-08	Dec-08	Dec-22					N. Nama N	- D Ob	_
		2 3				Dec-17	Dec-15					5. Very He 4. Heavy-	•			N- None N P- Precip		
Min. Temps. >= 70°F		4			Ave. Max.							3. Modera				i lecip	. prevent C	
_		Dates	11.9	7	31.5	87	44	29,44	29.18	29.31	-0.45	2. Light - :						
Ave. 0.0		1	Dec-26	Dec-26	Dep.	Dec-07	Dec-24	Dec-21	Dec-21	Dec-21	Dec-21	_	ght - Sligh	t - Trace				
Departure Ave.			Dec-20	Dec-20	0.5	Dec-01	Dec-24	Dec-21	Dec-21	Dec-21	Det-21	-		ı - Trace ısity missii	na			
•	Days Min. <=32 °F			≤ 65	≤ 60	≤ 55	≤ 50	≤ 45	≤ 40	≤ 35	≤ 30	≤ 25	≤ 20	≤ 15	<u>≤ 10</u>	≤ 5	≤ 0	
Days Min >		18 0		31	31	31	31	29	25	21	16	9	2	0	0	0	0	
Dayo mili		•		U,	٥.	VI	Ų,							•	•		v	

PAGE #3	West Henrico Co Glen Allen Weather Center 37.65537° N. 77.56929° W Koontz
Dec	REMARKS FOR THE MONTH
2018	December - 2018
Dec-01	CLOUDY DAMP WITH MAINLY SPRINKLES AND DRIZZLE WITH A EAST TO NE LIGHT BREEZE
Dec-02	A VERY DAMP DAY WITH ONLY A LITTLE DRIZZLE AND FOG IN AM & MORE FOG AFTER DARK
Dec-02	A CLOUDY AM BUT SCATTERED CIRRUS FROM 1215-1345 THEN MOSTLY THIN FIBROUS CIRRUS THAT BECAME THICKER TOWARD SUNSET-PM EST. 65% CLOUDY
Dec-04	FROZEN DEW ON DECK-CLOUDY AND CHILLY AM WITH BREEZY CONDITIONS-PM HAD LESS WIND & A FEW SNOW PELLETS OCCURRED AROUND 2130
Dec-05	VERY COLD WINTER LIKE DAY WITH SNOW FLURRIES & A SNOW SHOWER THAT OCCURRED AT 1130-1140 THAT GAVE 0.1 INCH OF SNOW THAT MELTED QUICKLY
Dec-06	FROST SO HEAVY IT TRIPPED RAIN GAUGE-PM HAD THIN CIRRUS WITH SUN PASSING THROUGH THESE CLOUDS THAT CAME IN AROUND 1515
Dec-07	BEAUTIFUL SUNRISE WITH LIGHT FROST - MOSTLY A FEW AM CIRRUS THAT BECAME CLEAR AFTER 1015
Dec-08	SNOWSTORM TO TRACK TO THE SOUTH TOMORROW-RAPID INCREASE IN SNOW TOTALS AND CHANGE IN FORECAST FROM LIGHT SNOW TO FORECAST OF 3-6 INSSUN THROUGH THIN AM CIRRUS
Dec-09	THIS WAS THE LARGEST SNOWSTORM IN A CALENDAR DAY AT OUR STATION-PREV. REC. WAS 11.4 INS ON JAN. 30, 2010-2ND LARGEST EARLY SNOWFALL FOR RICHMOND. THE EARLIEST
Dec-10	CLOUDS CLEARED AROUND 1245 & AFTERNOON SUN MELTED A LOT OF SNOW
Dec-11	LOWEST TEMP. SINCE FEB. 10, 2018 WHEN IT WAS 19.1°F-VERY SUNNY DAY WITH A GOOD WARMUP IN AFTERNOON
Dec-12	CLOUDY ALL DAY BUT SOME SUN THROUGH THIN OVERCAST AND WARMER
Dec-13	CLOUDY AGAIN BUT STILL A LOT OF MELTING AND ALL ROADS ARE NOW CLEAR
Dec-14	FROST MELTED BEFORE AM READING & WARMEST TEMPS. OCCURRED AT 2357-ALTOSTRATUS IN AM
Dec-15	DAMP OFF AND ON DRIZZLY DAY BUT WARM FOR DEC3RD PD. OF PRECIP 1415-1530 & 5TH PD. FROM 1840-
Dec-16	3RD PD. OF PRECIP. 1630-1710-PRECIP. ALL DAY WAS JUST DRIZZLE AND GLOOMY DAY
Dec-17	HEAVY AM FOG THAT CLEARED QUICKLY AT 0805-ALTOCUMULUS CAME IN AROUND 1145
Dec-18	VERY FROSTY AM AND VERY CLEAR DEEP BLUE SKY MADE A BELOW AVE. DAY FEEL RATHER COMFORTABLE
Dec-19	VERY FROSTY AM AGAIN WITH SUN THROUGH THIN CIRRUS IN AM AND MOSTLY CLEAR AFTER 1215
Dec-20	WARM FRONTAL PASSAGE GAVE HIGHEST TEMPS. AT MIDNIGHT
Dec-21	LOWEST BAROMETER OF YEAR AND LOWEST SINCE MARCH 12, 2014 WHEN IT WAS 29.13°F-PDS. OF PC TO CLOUDY IN PM-CLOUDS EST. AT 60-70% CLOUDY-3RD PD. OF RAIN 2255-2400
Dec-22	DECK AND SURFACES STILL WET FROM RAIN-CLEARED OFF AT 1020-GOOD WEATHER FOR DEC. 22ND
Dec-23	VERY CLEAR DAY WITH DEEP BLUE SKY BUT CLOUDS CAME IN JUST BEFORE DARK
Dec-24	FROZEN DEW WITH FROST-VERY CLEAR AFTERNOON BUT CIRRUS AND ALTOCUMULUS OCCURRED IN MORNING
Dec-25	MOSTLY CLOUDY AND A GOOD BIT COOLER TODAY-CLOUDS CAME IN ABOUT 0930
Dec-26	CALM CLEAR ALL DAY WITH NEAR AVE. TEMPERATURES-HEAVY FROST IN AM-DEEP BLUE SKY
Dec-27	VERY CLEAR CALM NIGHT-SUN THROUGH CIRRUS AND CIRROSTRATUS IN AM-PM BECAME MOSTLY CLO. WITH ALTOSTRATUS AND STRATUS
Dec-28	RAIN FROM 1030-1605-HEAVIEST AT 1405-1415-SOME RIVER FLOODING REPORTED
Dec-29	ONLY A FEW AM CIRRUS & PM WAS CLEAR UNTIL 1315 THEN MANY CIRRUS BECAME CIRROSTRATUS & THEN ALTOSTRATUS BY SUNSET
Dec-30	SOME SUN THROUGH CLOUDS BET. 1100-1300 AND MUCH COOLER THAN YESTERDAY
Dec-31	CLOUDY DAMP WEATHER WITH SPRINKLES AND DRIZZLE AND LIGHT PRECIPCLOUDY ALL DAY- ALSO SOME OFF AND ON DRIZZLE AFTER 1525 THAT ADDED UP TO 0.01 INCHES
DATE	EXTENSION OF LENGTHY DAILY REMARKS
Dec-08	THAT BECAME CIRROSTRATUS & ALTOSTRATUS IN PM
Dec-09	LARGE SNOWFALL OF 11.5 INCHES AT THE AIRPORT-PREV. REC. THIS EARLY WAS 4.5 INCHES IN 1893.
	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/2018/Rules.pdf

Page 4	West Henrico Co Glen Allen Weather Center 37.65537° N. 77.56929° W Koontz
_	DAILY RECORDS FOR THE MONTH
41 Dec	DAILT RECORDS FOR THE MIGNITH
2018	The Glen Allen Station had 13 Records or Record Ties in December 2018
1	The maximum temperature on the 1st was 43.7°F, a new 10-year cold daily maximum temperature record for the date - the old record was 50°F in 2008.
	The daily temperature range on the 1st was 2.4°F, a new 10-year LOW daily temperature range record for the date - the old record was 12°F in 2008.
2	
3	
4	
5	The maximum temperature on the 5th was 39.7°F, a new 10-year cold daily maximum temperature record for the date - the old record was 43°F in 2010.
	The daily greatest snow on the 5th was 0.1 inches, and EQUALED the, 10-year HIGH daily greatest snow record for the date - the old record was set in 2010.
6	
7	
8	
9	The maximum temperature on the 9th was 33°F, a new 10-year cold daily maximum temperature record for the date - the old record was 33.7°F in 2017.
40	The daily greatest snow on the 9th was 11.9 inches, a new 9 year daily greatest snow record for the date - the old record was 1.4 inches in 2017.
10	The daily greatest snow on the 10th was T inches, and EQUALED the, 10-year HIGH daily greatest snow record for the date - the old record was a Trace set in 2017.
11	The minimum temperature on the 11th was 21.1°F, a new 10-year LOW daily minimum temperature record for the date - the old record was 23°F in 2013.
12 13	
14	
15	The daily temperature range on the 15th was 7.9°F, a new 10-year LOW daily temperature range record for the date - the old record was 12.4°F in 2017.
13	The daily precipitation on the 15th was 0.18 inches, a new 10-year HIGH daily precipitation record for the date - the old record was 0.01 inches in 2012 and 2013.
16	The daily precipitation on the 13th was 5.10 moles, a new 10-year mon daily precipitation record for the date - the old record was 5.10 moles in 2012 and 2013.
17	
18	
19	
20	The daily temperature range on the 20th was 32°F, a new 10-year HIGH daily temperature range record for the date - the old record was 26.6°F in 2015.
21	
22	
23	
24	
25	
26	
27	
28	The daily precipitation on the 28th was 1.75 inches, a new 10-year HIGH daily precipitation record for the date - the old record was 0.15 inches in 2015.
29	The maximum temperature on the 29th was 65.5°F, a new 10-year daily HIGH maximum temperature record for the date - the old record was 59.1°F in 2016.
30 31	
31	

