PAGE #1		Nov	2019	West He	nrico Co.	- Glen Alle	en Weath	er Center	37.6553	7° N. 77.	56929° V	V Koon	tz					
1	2	3	4	5	6	7	8	9	10	11	12	13				17	18	19
Nov	Week	MAY	TEMPERA				TEMPERA			SKY			RECIPITATI			PRECIP.	1st PERIOD	
2019	Day 	MAX.	Time	MIN.	Time	RANGE	MEAN	CHANGE	SOIL	AM	PM	Liquid	1 Hr.	5 Min.	NEW	GROUND	START	END
Nov-01	Fri	58.5	14:37	38.3	23:57	20.2	48.4	-20.3	64	0	0	Т	Т	Т			0001	0035
Nov-02	Sat	58.2	15:05	33.2	6:56	25.0	45.7	-2.7	61	0	2							
Nov-03	Sun	59.1	13:13	31.6	6:34	27.5	45.4	-0.4	59	0	0							
Nov-04	Mon –	62.5	13:11	30.8	6:47	31.7	46.7	1.3	58	0	2							
Nov-05	Tue	71.2	12:50	41.2	4:49	30.0	56.2	9.6	57	1	1							
Nov-06	Wed	62.2	13:21	40.0	6:52	22.2	51.1	-5.1	57	0	0							
Nov-07	Thu	65.5	13:02	40.4	4:37	25.1	53.0	1.9	56	2	2	0.02	0.02	Т			0511	2400
Nov-08	Fri	51.6	0:01	29.3	21:02	22.3	40.5	-12.5	57	0	0							
Nov-09	Sat	48.5	14:32	23.9	6:39	24.6	36.2	-4.3	55	0	1							
Nov-10	Sun	65.3	13:54	29.8	0:01	35.5	47.6	11.4	53	0	1							
Nov-11	Mon	70.7	14:02	40.6	6:42	30.1	55.7	8.1	53	1	2							
Nov-12	Tue	57.9	1:38	26.4	22:44	31.5	42.2	-13.5	54	2	2	0.68	0.20	0.02	0.3	Т	0352	1410
Nov-13	Wed	38.3	13:41	21.6	6:16	16.7	30.0	-12.2	52	0	0							
Nov-14	Thu	44.9	14:02	20.5	6:08	24.4	32.7	2.8	50	1	2	0.05	0.05	Т			2149	2400
Nov-15	Fri	48.6	14:59	37.0	7:03	11.6	42.8	10.1	50	2	2	0.01	0.01	Т			0001	0010
Nov-16	Sat	45.3	12:32	36.9	7:16	8.4	41.1	-1.7	51	1	1							
Nov-17	Sun	46.5	14:44	37.1	7:03	9.4	41.8	0.7	50	2	2							
Nov-18	Mon	53.4	13:16	39.7	6:45	13.7	46.6	4.8	50	2	1	0.10	0.08	0.01			1609	2210
Nov-19	Tue	50.9	14:02	42.6	6:18	8.3	46.8	0.2	51	2	2							
Nov-20	Wed	58.2	12:16	35.3	7:04	22.9	46.8	0.0	51	1	1							
Nov-21	Thu	57.5	13:32	29.5	7:12	28.0	43.5	-3.3	51	0	2							
Nov-22	Fri	59.8	15:06	40.9	23:58	18.9	50.4	6.8	51	2	2	0.03	0.02	0.01			0835	1315
Nov-23	Sat	45.9	14:46	30.0	6:31	15.9	38.0	-12.4	51	2	2	0.60	0.25	0.04			1450	1920
Nov-24	Sun	57.6	12:56	36.1	23:46	21.5	46.9	8.9	50	1	0	0.12	0.09	0.01			0001	0235
Nov-25	Mon	58.5	13:28	30.4	7:05	28.1	44.5	-2.4	50	0	0							
Nov-26	Tue	66.5	14:01	34.5	6:07	32.0	50.5	6.1	49	0	0							
Nov-27	Wed	59.4	16:32	49.4	2:17	10.0	54.4	3.9	50	2	2	0.02	0.02	0.01			0430	1040
Nov-28	Thu	56.7	1:19	39.1	21:46	17.6	47.9	-6.5	51	0	0							
Nov-29	Fri	54.4	14:24	32.4	3:52	22.0	43.4	-4.5	50	0	0							
Nov-30	Sat	49.5	13:23	39.3	22:37	10.2	44.4	1.0	50	2	2	0.02	0.01	T			0005	0100
TOTAL		4600		4000		645.0	4262.5	24.0	4500		24	1.05	0.75	0.40	0.0	_		26.27
TOTAL		1683	20	1038	20	645.3	1360.5	-24.3	1592	26	34	1.65	0.75	0.10	0.3	T		26-27 AVE DU
NUMBER		30	30	30	30	30	30	30	30	30	30	10	10	6	1	0.0		AVE RH
AVERAGE NORMALS		56.10	12:36	34.59	9:53	21.51	45.35		53.07	0.87	1.13	Ave. Tot.	Ave. Max	Ave. Max	Ave. Tot.	Ave. Days	73.4 70.3	Percent
		60.20		37.95		21.98	48.88		54.05	0.93	1.05	3.75	0.47	0.12	0.0	0.0		Percent
Max. Temp		-4.10 71.2	Ave.HighMax	-3.36 49.4	Ave.HighMin	-0.47 35.5	-3.53 56.2	11.4	-0.98 64.0	-0.06 Whol	0.08 le Day	-2.10 0.68	0.28 0.25	-0.02 0.04	0.3	0.0 T	3.1 Precip	Percent 24 Hr.
2019			76.6		58.6					AVERAGE	1.00				0.5 T	'	Amount	0.72
Ave.		Nov-05	76.6 Dep.	Nov-27	Dep.	Nov-10	Nov-05	Nov-10	Nov-01	Normal	0.99	Nov-12	Nov-23	Nov-23	1.0	0.0	Date	0.72 Nov 23
Departure			-5.4		-9.2					Depart.	0.93				1.0	T	Date	Nov 24
Min. Temp		38.3	Ave.LowMax	20.5	Ave.LowMin	8.3	30.0	-20.3	49.0	SKY	AM	PM	≥ 0.10	Precip.	≥ 1.00	Precip.	≥ 2.00	Precip.
2019		Nov-13	44.0	Nov-14	23.6	Nov-19	Nov-13	Nov-01	Nov-26	CLEAR	14	10	4	DAYS	0	DAYS	0	DAYS
Ave.			Dep.		Dep.					PT. CLO.	6	6	HOTTEST	56.2	Highest	Lowest	COOLEST	30.0
Departure			-5.7		-3.1					CLOUDY	10	14	DAY	11-05	Mean	Mean	DAY	11-13
Days Max.	<=32 °F	0		MAX.	≥ 80	≥ 75	≥ 70	≥ 65	≥ 60	≥ 55	≥ 50	≥ 45	≥ 40	≥ 35	≥ 30	≥ 25	≥ 20	
Days Max.	>=90°F	0		DAYS	0	0	2	5	8	18	23	29	29	29	30	30	30	

PAGE #2	Nov	2019	West He	nrico Co	Glen Alle	en Weath	er Cente	r 37.655	37° N. 77.5	56929° W.	- Koontz							
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Nov				WIND		REL. HUMIDITY		BAROMETRIC PRESSURE							K			
2019	START	END	RUN	MAX.	TIME	MAX.	MIN.	MAX.	MIN.	AVE.	CHANGE	GLAZE	SLEET	SNOW	FOG	1.	DEW	FROST
Nov-01		<u> </u>	46.7	20	1:01	93	45	30.29	29.80	30.05	0.21						P	_
Nov-02			34.2	12	13:49	96	57	30.28	30.07	30.18	0.13						4	2
Nov-03		<u> </u>	19.6	13	12:23	98	41	30.29	30.14	30.22	0.04							4
Nov-04	<u> </u>	<u> </u>	44.0	17	10:58	98	42	30.39	30.25	30.32	0.11							5
Nov-05		<u> </u>	24.8	11	10:54	97	43	30.26	30.16	30.21	-0.11						4	
Nov-06		-	45.8	14	9:41	95	43	30.48	30.25	30.37	0.16						3	
Nov-07		-	72.8	20	13:14	94	62	30.37	30.01	30.19	-0.18						3 P	
Nov-08			129.2	24	1:56	92	41	30.38	30.07	30.23	0.04						Р	
Nov-09		-	36.4	15	14:07	91	50	30.37	30.19	30.28	0.05							2
Nov-10		<del>                                     </del>	81.1	17	13:56	92	43	30.19	30.04	30.12	-0.16						-	
Nov-11		<u> </u>	102.0	20	14:50	92	43	30.12	29.86	29.99	-0.13			4			3 P	
Nov-12		<u> </u>	87.4	22	6:39	96	58	30.29	29.81	30.05	0.06			1			۲.	
Nov-13		-	59.9	15	9:55	88	39	30.49	30.29	30.39	0.34							2
Nov-14		-	40.5	12	12:03	93	50	30.45	30.31	30.38	-0.01						P	5
Nov-15 Nov-16		<del>                                     </del>	32.7 182.8	11 25	12:09 8:41	96 <b>81</b>	62 58	30.31	30.17 30.18	30.24	-0.14 0.01						N N	
Nov-16 Nov-17	<u> </u>	<del>                                     </del>	157.0	22	9:37	87	64	30.32	29.96	30.25	-0.13						N	
																	N	
Nov-18		-	52.3	12	1:34	96	69	29.96	29.74	29.85	-0.27						P	
Nov-19 Nov-20		-	28.3 52.3	11 17	2:12 10:37	97 <b>98</b>	<b>81</b> 48	29.89 30.26	29.78 29.89	29.84 30.08	-0.02 0.24						<u>Р</u>	
Nov-21			54.9	16	22:59	96	50	30.32	30.04	30.18	0.10						-	4
Nov-22			91.6		11:43	96	70	30.09	29.86	29.98	-0.20						N	-
Nov-22 Nov-23	2030	2400		19 12		96		30.10		29.98	-0.20						2	2
Nov-24	2030	2400	30.6 62.5	18	18:16 9:59	98	63 48	29.80	29.55 29.48	29.63 29.64	-0.15						P	
Nov-25			39.0	14	12:21	96	48	29.98	29.78	29.88	0.24						2	3
Nov-26			52.4	14	12:31	97	49	30.07	29.75	30.01	0.13						3	1
Nov-27			120.5	28	15:36	91	78	30.04	29.75	29.90	-0.11						P	'
Nov-28			79.9	25	14:53	84	45	30.28	29.86	30.07	0.18						1	
Nov-29			36.9	15	9:37	91	43	30.30	30.13	30.22	0.15						2	1
Nov-30	0340	0410	31.9	10	23:04	95	61	30.14	29.92	30.03	-0.18						N	
	33-10	3710	\$0		20.07		Ü,	33.17	20.02	55.00	5.10							
TOTAL			1930.0	501		2811	1594	906.78	899.29	903.04	TOTAL	0	0	1	0	0	11	12
NUMBER	Mar. W	ind Run	30	30	30	30	30	30	30	30	NORMAL	0.0	0.3	0.6	3.0	0.6	10.9	9.2
AVERAGE	Total	1930.0	64.3	16.7	11:22	93.70	53.13	30.23	29.98	30.10	DEPART.	0.0	-0.3	0.4	-3.0	-0.6	0.1	2.8
NORMALS	Miles	1498.7	50.0	17.05		92.2	48.6	30.24	30.02	30.13	Rating ►	0	0	1	0	0	31	35
Departures	Miles	431.3	14.4	-0.35		1.5	4.6	-0.02	-0.04	-0.03	Intensity	32	ļ.	>	(D	D	>	<b>*</b>
	MAXIMUM	Dates	182.8	28	South	98	81	30.49	30.31	30.39	0.34	GLAZE	SLEET	SNOW	FOG	1/	Dew	Frost
	DATES	1	Nov-16	Nov-27	15:36	Nov-03	Nov-19	Nov-13	Nov-14	Nov-13	Nov-13	ō	Ś	Ś	_			
2					Nov-04						5. Very Hea	•			N- None No			
Min Tomps >= 70°E					Nov-20						4. Heavy-U				P- Precip. p	orevent obs		
Min. Temps. >= 70°F 4		40.0	40	Ave. Max.	Nov-24	00	00.00	20.40	00.04		3. Moderat							
2019 0 Dates		19.6	10	31.2	81	39	29.80	29.48	29.64	-0.27	2. Light - >							
Ave. 0.0 1		Nov-03	Nov-30	Dep.	Nov-16	Nov-13	Nov-24	Nov-24	Nov-24	Nov-18	1. Very Lig	_						
Departure  Days Min. <	0.0	12	MIN.	≤ 75	-3.2 ≤ 70	≤ 65	≤ 60	≤ 55	≤ 50	≤ 45	≤ 40	M - Event v ≤ 35	with intensit ≤ 30	y missing ≤ 25	≤ 20	≤ 15		
Days Min. <		0	DAYS	≤ /5 30	≤ 70 30	≤ 65 30	≤ 60 30	≤ 55 30	≤ 50 30	≤ 45 29	≤ 40 25	≤ 35 15	≤ 30 9	≤ 25 3	≤ 20 0	≤ 15 0		
Days Will >	2=10 F	U	DATS	30	30	30	30	30	30	29	20	10	9	3	U	U		

PAGE #3	West Henrico Co Glen Allen Weather Center 37.65537° N. 77.56929° W Koontz								
Nov	REMARKS FOR THE MONTH								
2019	November - 2019								
Nov-01	COLD FRONT PASSED AROUND 1250-TODAY WAS MUCH COOLER BUT NO CLOUDS AND LOW RH								
Nov-02	HEAVY FROST ON ROOFS, LIGHT FROST ON GRASS BUT NOT A KILLING FROST-CUMULUS CLOUDS CAME IN AT 1215								
Nov-03	FROST ON FROZEN DEW-SOME DEW ON HOUSE VINYL WAS FROZEN-COLDEST SINCE APR. 3, 2019 WHEN IT WAS 30°F								
Nov-04	FROST ON FROZEN DEW-COLDEST SINCE APR. 3, 2019 - CIRRUS CAME IN AT 1100PM SKY MAINLY FIBROUSCIRRUS AND CIRROSTRATUS LATER IN PM								
Nov-05	SUN THROUGH CIRRUS MOST OF DAY AND AT TIMES SOME ALTOCUMULUS								
Nov-06	NO CLOUDS SEEN TODAY-A COOL FALL DAY AND A BEAUTIFUL PM FOR NOV.								
Nov-07	CLOUDY COOL AM-PM CLOUDY AND PLEASANT-STRONG COLD FRONT PASSED AROUND 2230								
Nov-08	A VERY CLEAR BUT COLD DAY-LOWEST DEWPOINT WAS 21.5°F AT 1611								
Nov-09	FIRST KILLING FROST-HARD FREEZE-5 MPH WIND KEPT A CLASS 5 FROST FROM FORMING-COLDEST SINCE MARCH 7, 2019 WHEN TEMP. WAS 21.4°F -CLOUDS CAME IN AT 1100-PM EST. 50-60% CLO.								
Nov-10	COOL AM BUT A WARM AND PLEASANT PM-PM SUN THROUGH CIRRUS, CUMULUS AND ALTOCUMULUS								
Nov-11	AM SCATTERED FIBROUSCIRRUS-PM AFTER 1340 HAD ALMOST A COMPLETE THIN CIRROSTRATUS OVERCAST								
Nov-12	STRONG COLD FRONT PASSED AROUND 0930-THIS WAS THE FIRST MEASURABLE SNOW IN NOV. AT THIS STATION-SNOW STARTED AROUND 1210 & ENDED AROUND 1410-MAX. SNOW ON GROUND								
Nov-13	VERY DRY AIR LITTLE FROST-EXTREMELY COLD DAY FOR MID-NOV. AND COLDEST SINCE FEB. 10, 2019								
Nov-14	COLDEST SINCE FEB. 10, 2019 WHEN IT WAS 18.1°F-CIRRUS CLOUDS AM - PM CIRROSTRATUS, ALTOCUMULUS AND ALTOSTRATUS								
Nov-15	A LITTLE WARMER BUT CLOUDY AND STILL COLD FOR NOV.								
Nov-16	WINDY NIGHT WITH NO DEW-COASTAL LOW GAVE CLOUDINESS TODAY AND WINDS TO 25 MPH								
Nov-17	ANOTHER CLOUDY, COLD DAY FOR NOV. WITH A LOW OFF COAST-WIND CHILL AROUND 0937 WAS 27.6°F								
Nov-18	CLOUDY AM EST. 85-90% CLOUDY-PM EST. 55-60% CLOUDY								
Nov-19 Nov-20	COLD CLOUDY AM AND DAMP-A LITTLE PM SUN AROUND 1400 BUT PM EST. 80-85% CLOUDY  AM STRATUS AND CUMULUS TO 845 THEN CLEAR TO 1145-PM STRATOCUMULUS AND CUMULUS FROM 1200-1445 THEN CLEAR AGAIN TO SUNSET-AM EST. 40-45% CLO. PM EST. 45-50% CLO.								
Nov-20	CIRRUS CLOUDS CAME IN AT 1115 AND INCREASED TO TOTAL OVERCAST BY 1345 BUT A PLEASANT PM								
Nov-21 Nov-22	MAINLY A MORNING OF SPRINKLES AND CLOUDY BUT A WARM PM WITH ALTOSTRATUS CLOUDS								
Nov-22	FROZEN DEW AND RAIN ON DECK AND FROST ON ROOFS-RAIN HEAVIER TO SOUTH								
Nov-24	VARIABLE AM SKY BUT CLEAR PM-WINDS CAUSED A COOL AM BUT PM WAS PLEASANT								
Nov-25	TODAY WAS A BEAUTIFUL FALL DAY AND TREES IN OUR NEIGHBORHOOD ARE NEAR THEIR PEAK								
Nov-26	CLOUDS CAME IN AT 1530 BUT AM WAS VERY CLEAR AND A WARM AFTERNOON								
Nov-27	AM HAD AN OCCASIONAL SPRINKLE WITH HEAVIER RAIN PASSING TO NORTH AND PM WAS CLOUDY AND WINDY								
Nov-28	SUNNY WINDY BUT WARM FOR END OF NOVMANY LEAVES FELL YESTERDAY AND TODAY-MOST SPECIES OF TREES HAVE BECOME BARE EXCEPT OAKS WHICH HAVE ABOUT 25% OF THEIR								
Nov-29	CLOUDS DIDN'T COME IN UNTIL 1600 AS ALTOCUMULUS OTHERWISE IT WAS A SUNNY BRIGHT DAY								
Nov-30	3RD PD SPRINKLES 1125-1145 - CLOUDY ALL DAY WITH AN APPROACHING STORM THAT WILL PASS TO NORTH GIVING US RAIN AND SNOW PREDICTED FOR NE								
DATE	EXTENSION OF LENGTHY DAILY REMARKS								
Nov-12	AT 1345 WAS 0.3 INCHES-MANY DID NOT REPORT SNOW IF THEY DID NOT HAVE A SNOW BOARD AS THE GROUND WAS SO WARM IT MELTED MOST OF THE SNOW								
Nov-18	LEAVES. NORTHERN RED OAKS WERE AT THEIR PEAK ABOUT THE 24TH AND STILL HAVE MORE THAN 50% OF THEIR LEAVES.								
,									
,									
,									
	The daily records for the month are listed an nage # 4 and not found in the 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								
	Rules for making Observations in 2019								
	Nuies for making observations in 2013								

Page 4	West Henrico Co Glen Allen Weather Center 37.65537° N. 77.56929° W Koontz
41	DAILY RECORDS FOR THE MONTH
Nov	The Control Call Dark Otation had 47 December Decembration in November 2040
2019	The Springfield Park Station had 17 Records or Record Ties in November 2019
2	
3	
4	The minimum temperature on the 4th was 30.8°F, a new 11-year LOW daily minimum temperature record for the date - the old record was 34°F in 2013.
	The daily temperature range on the 4th was 31.7°F, a new 11-year HIGH daily temperature range record for the date - the old record was 29°F in 2014.
5	The daily temperature range on the 5th was 30°F, a new 11-year HIGH daily temperature range record for the date - the old record was 27.3°F in 2016.
6	····
7	
	Remarks- The minimum temperature this morning was 23.9°F the lowest since March 7, 2019 when it was 21.4 degrees F.
8	·
9	The maximum temperature on the 9th was 48.5°F, a new 11-year cold daily maximum temperature record for the date - the old record was 50.9°F in 2018.
	The minimum temperature on the 9th was 23.9°F, a new 11-year LOW daily minimum temperature record for the date - the old record was 28°F in 2013 and 2012.
10	The minimum temperature on the 10th was 29.8°F, and EQUALED the, 11-year HIGH daily minimum temperature record for the date - the old record was set in 2017.
11	
12	The daily greatest snow on the 12th was 0.3 inches, and is a new 8-year daily greatest snow record for the date - the old record was T inches, in 2013.
13	The minimum temperature on the 13th was 21.6°F, a new 11-year LOW daily minimum temperature record for the date - the old record was 23°F in 2013.
	The maximum temperature on the 13th was 38.3°F, a new 11-year cold daily maximum temperature record for the date - the old record was 47°F in 2013.
14	The minimum temperature on the 14th was 20.5°F, a new 11-year LOW daily minimum temperature record for the date - the old record was 25°F in 2014.
15	
16	The maximum temperature on the 16th was 45.3°F, a new 11-year cold daily maximum temperature record for the date - the old record was 50°F in 2014.
17	The maximum temperature on the 17th was 46.5°F, a new 11-year cold daily maximum temperature record for the date - the old record was 49°F in 2008.
	The daily temperature range on the 17th was 9.4°F, a new 11-year LOW daily temperature range record for the date - the old record was 13°F in 2014.
18	The latter was the day of the same of the
19	The daily temperature range on the 19th was 8.3°F, a new 11-year LOW daily temperature range record for the date - the old record was 9.6°F in 2015.
20 21	The deily temporative range on the 24st year 20°F, and FOLIALED the 44 year UICH deily maximum temporative range record for the date, the old record was set in 2045
22	The daily temperature range on the 21st was 28°F, and EQUALED the, 11-year HIGH daily maximum temperature range record for the date - the old record was set in 2015.
23	
24	
25	
26	The daily temperature range on the 26th was 32°F, a new 11-year HIGH daily temperature range record for the date - the old record was 31.9°F in 2015.
27	The daily temperature range on the 27th was 10°F, a new 11-year LOW daily temperature range record for the date - the old record was 13°F in 2013 and 2012.
28	
29	
30	The daily temperature range on the 30th was 3.9°F, a new 11-year LOW daily temperature range record for the date - the old record was 4.5°F in 2015.

