PAGE #1		Nov			nrico Co													
Nov	Week	3	4 TEMPER	ATURE °F	6	7	8 TEMPERA	9 ATURF °F	10	11 I SI	12 KY	13 PI	14 RECIPITAT	15 ION	16 FROZ.	PRECIP.	18 1st P	PERIOD
2016	Day	MAX.	Time	MIN.	Time	RANGE	MEAN	CHANGE	SOIL	AM .	PM	Liquid	1 Hr.	5 Min.	NEW	GROUND	START	END
Nov-01	Tue	61.1	14:24	44.6	1:38	16.5	52.9	-2.8	61	2	2	Т	Т	Т			2145	2150
Nov-02	Wed	78.8	15:30	51.7	1:27	27.1	65.3	12.4	61	0	0	-					2110	2.00
Nov-03	Thu	84.1	14:18	57.7	5:40	26.4	70.9	5.7	62	1	2	0.12	0.07	0.01			1617	1648
Nov-04	Fri	65.9	13:19	42.2	23:57	23.7	54.1	-16.9	64	0	0	0.26	0.17	0.03			0001	0410
Nov-05	Sat	65.1	15:08	37.8	7:53	27.3	51.5	-2.6	59	0	0			-				
Nov-06	Sun	71.3	13:02	36.8	6:33	34.5	54.1	2.6	57	0	0							
Nov-07	Mon	59.6	14:00	36.9	23:55	22.7	48.3	-5.8	57	0	0							
Nov-08	Tue	69.0	12:50	32.7	6:27	36.3	50.9	2.6	55	0	2							
Nov-09	Wed	64.1	13:34	46.4	23:57	17.7	55.3	4.4	57	2	2	0.03	0.02	0.01			0440	0450
Nov-10	Thu	63.0	14:01	36.3	6:52	26.7	49.7	-5.6	56	0	0							
Nov-11	Fri	68.8	13:22	38.2	6:59	30.6	53.5	3.9	55	0	1							
Nov-12	Sat	53.5	13:41	29.9	23:30	23.6	41.7	-11.8	55	0	0							
Nov-13	Sun	64.7	14:00	26.2	5:06	38.5	45.5	3.8	52	0	0							
Nov-14	Mon	48.9	11:02	29.9	3:36	19.0	39.4	-6.1	51	2	2	0.56	0.12	0.02			0930	2050
Nov-15	Tue	61.3	13:58	39.2	23:47	22.1	50.3	10.9	52	2	1	0.01	0.01	Т			0001	0255
Nov-16	Wed	66.4	14:25	33.8	6:47	32.6	50.1	-0.1	52	0	0							
Nov-17	Thu	64.6	13:56	35.6	7:01	29.0	50.1	0.0	52	0	0							
Nov-18	Fri	72.3	14:01	36.6	5:41	35.7	54.5	4.4	52	0	0							
Nov-19	Sat	74.9	13:19	39.2	23:58	35.7	57.1	2.6	52	0	2							
Nov-20	Sun	52.6	12:42	30.6	23:54	22.0	41.6	-15.5	52	2	0							
Nov-21	Mon	51.4	13:48	25.9	23:57	25.5	38.7	-3.0	49	0	0							
Nov-22	Tue	53.7	13:18	21.8	4:21	31.9	37.8	-0.9	47	1	2							
Nov-23	Wed	56.3	14:08	25.2	7:11	31.1	40.8	3.0	46	0	2							
Nov-24	Thu	66.2	14:15	40.5	0:23	25.7	53.4	12.6	48	2	0	Т	Т	Т			0515	0550
Nov-25	Fri	65.4	14:58	47.0	0:01	18.4	56.2	2.9	51	2	2	Т	Т	Т			0245	0250
Nov-26	Sat	54.9	13:31	32.2	23:59	22.7	43.6	-12.7	52	2	1	0.02	0.02	0.01			0055	0145
Nov-27	Sun	55.2	13:14	26.3	6:31	28.9	40.8	-2.8	49	0	0							
Nov-28	Mon	53.6	13:58	33.4	0:01	20.2	43.5	2.8	48	2	2							
Nov-29	Tue	68.7	12:15	49.7	0:01	19.0	59.2	15.7	50	2	2	0.07	0.04	0.01			0350	0615
Nov-30	Wed	71.6	14:37	60.5	2:46	11.1	66.1	6.8	54	2	2	0.57	0.35	0.12			0355	0725
TOTAL		1907		1125		782.2	1515.9	10.4	1608	24	27	1.64	0.80	0.21	0	0	Col	.26-27
NUMBER		30	30	30	30	30	30	30	30	30	30	8	8	7	0.0	0.0	DAILY	AVE RH
AVERAGE		63.57	13:45	37.49	10:15	26.07	50.53		53.60	0.80	0.90	Ave. Tot.	Ave.Max	Ave.Max	Ave.Tot.	Ave.Days	68.9	Percent
NORMALS	3	59.94		38.10		21.85	49.02		54.03	0.94	1.06	4.09	0.87	0.14	0.0	0.0	69.3	Percent
DEPARTU	RES	3.62		-0.60		4.23	1.51		-0.43	-0.14	-0.16	-2.45	-0.07	0.07	0.0	0.0	-0.4	Percent
Max ≥70°F	Dates	84.1		60.5		38.5	70.9	15.7	64.0	Whol	e Day	0.57	0.35	0.12	0	0.0	Precip	24 Hr.
6 DAYS	1	Nov-03		Nov-30		Nov-13	Nov-03	Nov-29	Nov-04	AVERAGE	0.85	Nov-30	Nov-30	Nov-30			Amount	0.57
Departure	2									Normal	1.00						Date	Nov-14
0.8	3									Depart.	-0.15						Date	15 th & 30 th
MINIMUM	Dates	48.9		21.8		11.1	37.8	-16.9	46.0	SKY	AM	PM	>= 0.10	Precip.	>= 1.00	Precip.	>= 2.00	Precip.
MIN >32°F	1	Nov-14		Nov-22		Nov-30	Nov-22	Nov-04	Nov-23	CLEAR	17	15	4	DAYS	0	DAYS	0	DAYS
21	2									PT. CLO.	2	3	HOTTEST	70.9	Highest	Lowest	COOLEST	37.8
DAYS	3									CLOUDY	11	12	DAY	11-03	Mean	Mean	DAY	11-22
Departure	<=32 °F	0	<=32 °F	9	MAX.	>=80	>=75	>=70	>=65	>=60	>=55	>=50	>=45	>=40	>=35	>=30	>=25	>=20
12.6	>=90°F	0	>=70 °F	0	DAYS	1	3	6	16	21	24	29	30	30	30	0	30	30

PAGE #2	Nov						ther Cen		537° N. 7	7.56929°\	N Koont							
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Nov 2016	2nd PI START	END	RUN	WIND MAX.	TIME	MAX.	JMIDITY MIN.	MAX.	BAROMETRI MIN.		CHANGE	GLAZE	SLEET	SNOW	FOG	K	DEW	FROST
	START	END		1					I	AVE.		GLAZE	SLEET	SNOW	FOG		4	FROST
Nov-01			20.5	12	12:29	97	64	30.36	30.27	30.32	0.18						3	
Nov-02	4055	0400	14.7	10	11:00	97	58	30.33	30.17	30.25	-0.06						5	
Nov-03	1855	2400	22.5	17	13:08	99	40	30.18	29.96	30.07	-0.18						P	
Nov-04 Nov-05			64.2 6.3	21 13	9:36 10:44	97 98	41 39	30.30 30.40	30.01 30.28	30.16 30.34	0.09						4	2
																	4	2
Nov-06 Nov-07			28.5 41.4	20	13:45	99	32 39	30.39 30.50	30.26	30.33 30.44	-0.01						3	1
Nov-07			9.2	18 11	8:58 14:40	95 99	31		30.37		0.11 -0.24						1	3
	0550	0045		18		95		30.38	30.01	30.20							P	
Nov-09 Nov-10	0550	0945	29.9 50.4	20	20:26 3:34	93	63 33	30.05 30.16	29.87 29.91	29.96 30.04	-0.23 0.07						3	
																	1	
Nov-11	\vdash		49.2	23	22:15	84	32	30.20	29.86	30.03	0.00						N N	
Nov-12			56.5	18	1:11	94	35	30.45	30.19	30.32	0.29						N	-
Nov-13	H		9.9	10	9:34	97	22	30.33	30.17	30.25	-0.07							5
Nov-14	2125	2400	11.5	9	15:46	97	63	30.17	29.98	30.08	-0.17						-	4
Nov-15	4		9.6	11	12:58	99	57	29.99	29.87	29.93	-0.15				3		P	
Nov-16	1		16.4	12	13:01	99	39	30.01	29.88	29.95	0.02						2	3
Nov-17	1		24.3	16	9:30	99	42	30.17	30.01	30.09	0.15						4	1
Nov-18			4.0	10	10:51	99	37	30.25	30.07	30.16	0.07						4	1
Nov-19			66.7	23	12:31	99	37	30.08	29.72	29.90	-0.26						4	
Nov-20			57.8	23	14:21	68	30	29.99	29.90	29.95	0.05						N	
Nov-21	1		29.7	21	13:59	78	25	30.15	29.95	30.05	0.10							2
Nov-22	1		13.4	13	12:38	85	22	30.35	30.14	30.25	0.20							4
Nov-23	1		7.4	9	10:51	93	28	30.40	30.26	30.33	0.08							4
Nov-24	0800	0805	29.5	15	12:19	97	52	30.27	30.13	30.20	-0.13						N	
Nov-25	2325	2330	17.3	12	23:43	100	66	30.27	30.11	30.19	-0.01						4	
Nov-26	1		69.6	21	14:53	91	40	30.25	30.13	30.19	0.00						Р	
Nov-27			10.6	12	12:44	96	37	30.30	30.20	30.25	0.06							5
Nov-28			41.6	19	12:09	88	47	30.23	30.04	30.14	-0.12						3	2
Nov-29	1225	1445	138.8	35	15:33	100	74	30.04	29.80	29.92	-0.21						Р	
Nov-30	2050	2250	90.1	32	20:34	100	78	29.93	29.59	29.76	-0.16					1	Р	
TOTAL			1041.5	504		2832	1303	906.88	901.11	904.00	TOTAL	0	0	0	1	1	15	14
NUMBER	Mar. Wi		30	30	30	30	30	30	30	30	NORMAL	0.0	0.6	0.9	2.4	8.0	10.6	8.4
AVERAGE	Total	1041.5	34.7	16.8	12:59	94.40	43.43	30.23	30.04	30.13	DEPART.	0.0	-0.6	-0.9	-1.4	0.3	4.4	5.6
NORMALS	Miles	1476.8	49.2	17.51		91.4	47.4	30.23	30.00	30.13	DAYS	Щ	ь	>		K		<u> </u>
Departures	Miles	-435.3	-14.5	-0.71	0 4	3.0	-4.0	0.00	0.03	0.00	OF ▶	GLAZE	SLEET	SNOW	506	1	DEW	FROST
	MAXIMUM	Dates	138.8	35	South	100	78	30.50	30.37	30.44	0.29			v	<u> </u>			ш
	DATES	1	Nov-29	Nov-29	15:33	Nov-25	Nov-30	Nov-07	Nov-07	Nov-07		5. Very Hea					N- None	
		2				Nov-29						4. Heavy-U						
		3				Nov-30						3. Moderat						
	MINIMUM	Dates	4.0	9		68	22	29.93	29.59	29.76	0.00	2. Light - < Ave. 1. Very Light - Slight - Trace						
	DATES							29.93 Nov-30		29.76 Nov-30								
	DATES	1 2	Nov-18	Nov-14 Nov-23		Nov-20	Nov-13 Nov-22	NOV-3U	Nov-30	Nov-30			vith intensity dering Dew	-	ın.			
	MIN.	<=75	<=70	<=65	<=60	<=55	<=50	<=45	<=40	<=35	<=30	<=25	<=20	<=15	41			
	DAYS	30	<=70 30	<=65 30	<=60 29	<=55 28	<=50 27	<=45 24	<=40 21	12	<=30 7	<=25 2	<=20 0	<=15 0				
	DATS	30	30	30	29	28	21	24	21	12	1	2	U	U				

PAGE #3	West Henrico Co Glen Allen Weather Center 37.65537° N. 77.56929° W Koontz
Nov	REMARKS FOR THE MONTH
2016	November - 2016
Nov-01	CLOUDY COOL DAY WITH AIR OFF THE ATLANTIC AND SPRINKLES NEAR 2200
Nov-02	SOME AM CIRRUS THEN CLEAR 1300-1600 THEN CIRRUS CLOUDS AGAIN-AM EST. 20-30% CLOUDY -PM 10-20% CLOUDY
Nov-03	VERY HEAVY DEW-CIRRUS IN AM AND PM STARTED WITH CIRROSTRATUS AND THICKENED AS COLD FRONT APPROACHED
Nov-04	CUMULUS CAME INTO A CLEAR BLUE SKY AT 1100 AND DISIPATED AT 1500 BACK TO TOTALLY CLEAR-PM EST. 20% CLOUDY
Nov-05	NO CLOUDS ALL DAY-SOME ROOFS WHITE WITH FROST AND PATCHY FROST ON GRASS
Nov-06	COLDEST AM SINCE APR. 17, 2016 WHEN IT WAS 35.9°F -ONLY A FEW CIRRUS TO NORTH HORIZON TODAY
Nov-07	VERY CLEAR COOL AM BUT PLEASANT FALL AFTERNOON
Nov-08	LIGHT KILLING FROST MORE FROST THAN DEW-COLDEST AM SINCE APRIL 10, 2016 WHEN IT WAS 25.2°F -ONLY MOST SENSITIVE PLANTS KILLED BY FROST-PM EST. 65-70% CLOUDY
Nov-09	COLD FRONT CAUSED WIND SHIFT SOUTH TO NORTH AT NOON- 3RD PD. OF SPRINKLES 1155-NOON, 4TH PD. 1330-1335, 5TH PD. 1450-1540, 6TH PD. 1755-1805
Nov-10	NO FROST SEEN-CIRRUS CLOUDS ON N HORIZON 1500 TO SUNSET-AM EST. NO CLOUDS, PM EST. 15% CLOUDS
Nov-11	CIRRUS AND CIRROSTRATUS CLOUDS BECAME CUMULUS FROM 1300 THEN VERY CLOUDY AFTER 1445-PM EST. 50-60% CLOUDY
Nov-12	NO CLOUDS TODAY-COLDEST OF THE FALL AT MIDNIGHT-DEW AND FROST BY MIDNIGHT BUT NOT RATED-FROST AND DEW ONLY RATED IN MORNING-COLDEST SINCE 4/10/2016 WHEN MIN. WAS 25.2°F
Nov-13	NO CLOUDS ALL DAY - AM WAS A HARD FREEZE, THE OFFICIAL FIRST KILLING FROST- COLDEST SINCE APR. 10, 2016 WHEN IT WAS 25.2°F
Nov-14	LIGHT RAIN DURING MOST OF DAY AND HEAVIER AROUND DARKNESS WHICH WAS MUCH NEEDED
Nov-15	DRIZZLE AFTER MIDNIGHT AND MODERATE FOG THIS AM-HEAVIEST FOG OCCURRED AT 0800 WITH VISIBILITY OF 0.4 MILES-CLEARING BY 1100
Nov-16	ALMOST NO CLOUDS EXCEPT ON NE HORIZON FROM 0930-0945-AM ROOFS WHITE WITH FROST BUT DEW SENSOR INDICATED 15 AND NOT FROZEN WHICH WOULD READ ZERO
Nov-17	ANOTHER BEAUTIFUL FALL DAY WITH A DEEP BLUE SKY AND NO CLOUDS
Nov-18	WARM AND VERY CLEAR FALL DAY-SE STATES ARE UNDER SEVERE DROUGHT CONDITIONS AND SEVERAL FIRES
Nov-19	CLOUDS CAME IN AT 1400 AND COLD FRONT PASSED AREA AROUND 1600
Nov-20	CLEARING STARTED AT 1115-NOT AS WINDY AS FORECASTED (WITH GUSTS 35-40MPH)
Nov-21	NO CLOUDS ALL DAY-LIGHT AM FROST-UPPER LEVEL TROUGH PASSED AT 1900 WITH COLDER AIR BEHIND THE TROUGH
Nov-22	COLDEST AM SINCE FEB. 27, 2016 WHEN IT WAS 20.6°F -CIRRUS CAME IN AT 0900-PM CLOUDY WITH CIRROSTRATUS
Nov-23	CLOUDS CAME IN AT 1400 AND CLOUDY BY 1515 TODAY WITH A COLD FRONT TO PASS TOMORROW
Nov-24	CLEARING STARTED AT 1130 AND WAS CLEAR BY NOON-99% REL. HUMIDITY OCCURRED AT 2400-AM READING WAS 68% EXPLAINING THE LACK OF DEW
Nov-25	A SLIGHT TRACE OF PRECIP. AROUND 0250-MOISTURE SENSOR READ ONLY 3-CLOUDY AM- PM WITH WEAK SUN THROUGH CIRROSTRATUS
Nov-26	CLEARING STARTED AT 1230 AND PC MOST OF THE PM BUT THEN CLEARING BY 1815
Nov-27	VERY FROSTY START TO DAY BUT A SUNNY AFTERNOON AND NEAR AVERAGE TEMPS.
Nov-28	CIRROSTRATUS AND ALTOSTRATUS MOST OF DAY ONLY A FEW LITTLE SUN THROUGH CLOUDS
Nov-29	EVEN AFTER WINDS OF TODAY MOST OF THE OAKS STILL HAVE AN AVE. OF 30-40% OF THEIR LEAVES-I HAVE NEVER SEEN SOME MANY LEAVES ON THE TREES THIS LATE IN AUTUMN SEASON
Nov-30	THUNDER HEARD AT 0428-STILL VERY LIGHT RAIN WHICH IS MUCH NEEDED. A COLD FRONT PASSED AROUND 2100 GIVING AN ADDITIONAL 0.38 INCHES OF RAIN.
DATE	EXTENSION OF LENGTHY DAILY REMARKS VILLANO FROOT TONICH T AND TEMPO TODAY ADOLE C RECORDE ON AVERAGE
Nov-12	KILLING FROST TONIGHT AND TEMPS. TODAY ABOUT 5 DEGREES BELOW AVERAGE
	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

Page 4	West Henrico Co Glen Allen Weather Center 37.65537° N. 77.56929° W Koontz
41 Nov	DAILY RECORDS FOR THE MONTH
2016	The Glen Allen Station had 19 Records or Record Ties in November 2016
1	
2	The maximum temperature on the 2nd was 78.8°F, a new 8 year HIGH daily maximum temperature record for the date - the old record was 73°F in 2013.
3	The minimum temperature on the 3rd was 57.7°F, a new 8 year warm daily minimum temperature record for the date - the old record was 51.1°F in 2015.
	The maximum temperature on the 3rd was 84.1°F, a new 8 year HIGH daily maximum temperature record for the date - the old record was 74°F in 2015.
	The daily precipitation on the 3rd was 0.02 inches, a new 8 year HIGH daily precipitation record for the date - the old record was 0.01 inches in 2010.
4	
5	The daily temperature range on the 5th was 27.3°F, a new 8 year HIGH daily temperature range record for the date - the old record was 26°F in 2009.
6	The daily temperature range on the 6th was 34.5°F, a new 8 year HIGH daily temperature range record for the date - the old record was 28°F in 2011.
7	
8	The daily temperature range on the 8th was 36.3°F, a new 8 year HIGH daily temperature range record for the date - the old record was 35°F in 2011 and 2010.
9	The minimum temperature on the 9th was 46.4°F, a new 8 year warm daily minimum temperature record for the date - the old record was 43°F in 2009.
10	
11	
12	
13	The daily temperature range on the 13th was 38.5°F, a new 8 year HIGH daily temperature range record for the date - the old record was 37°F in 2010.
14	(Note But NOT a Record) The low temperature last night was 26.2°F the lowest temperature since April 10, 2016 when the low temperature was 25.2°F but NOT a record for thew date.
15	The daily precipitation on the 14th was 0.56 inches, a new 8 year HIGH daily precipitation record for the date - the old record was 0.01 inches in 2014.
16	
17	The daily temperature range on the 17th was 29°F, a new 8 year HIGH daily temperature range record for the date - the old record was 25°F in 2010.
18	The maximum temperature on the 18th was 72.3°F, a new 8 year HIGH daily maximum temperature record for the date - the old record was 72°F in 2013.
	The daily temperature range on the 18th was 35.7°F, a new 8 year HIGH daily temperature range record for the date - the old record was 25°F in 2010.
19	The maximum temperature on the 19th was 75°F, a new 8 year HIGH daily maximum temperature record for the date - the old record was 67.5°F in 2015.
	The daily temperature range on the 19th was 35.7°F, a new 8 year HIGH daily temperature range record for the date - the old record was 28°F in 2011.
20	
21	
22	
23	
24	
25	
26	
27	
28	The minimum temperature on the 20th was 40.70F a new 0 years while minimum temperature record for the date, the all record was 44.70F in 204.5
29 30	The minimum temperature on the 29th was 49.7°F, a new 8 year warm daily minimum temperature record for the date - the old record was 44.7°F in 2015. The minimum temperature on the 30th was 60.5°F, a new 8 year warm daily minimum temperature record for the date - the old record was 46°F in 2010.
30	The maximum temperature on the 30th was 50.5 F, a new 8 year HIGH daily maximum temperature record for the date - the old record was 40 F in 2014.
	The daily precipitation on the 30th was 0.57 inches, a new 8 year HIGH daily precipitation record for the date - the old record was 0.46 inches in 2009.
	The daily prosperation of the contract of the