PAGE #1		Nov	2017	West Hen	rico Co	Glen Al	llen Weat	ther Cent	er 37.6	5537° N.	77.56929	9° W K	oontz					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Nov	Week	TEMPERATURE °F			TEMPERATURE °F						RECIPITATION		FROZ. PRECIP.		1st PERIOD			
2017	Day	MAX.	Time	MIN.	Time	RANGE	MEAN	CHANGE	SOIL	AM	PM	Liquid	1 Hr.	5 Min.	NEW	GROUND	START	END
Nov-01	Wed	67.7	14:04	42.7	6:50	25.0	55.2	1.6	60	2	2							
Nov-02	Thu	77.7	15:10	58.8	7:32	18.9	68.3	13.1	61	0	1	0.00	0.00	2.00			4054	2000
Nov-03	Fri	82.2	15:08	55.1	7:29	27.1	68.7	0.4	62	0	0	0.08	0.08	0.02			1954	2002
Nov-04	Sat	65.2	0:01	50.8	22:49	14.4	58.0	-10.7	63	2	2	0.02	0.02	0.01			1440	1445
Nov-05	Sun	61.6 76.4	15:43	50.8 56.7	0:56	10.8	56.2	-1.8	62	2	1	0.07 0.01	0.04	0.01			0001	0255
Nov-06	Mon	59.8	14:37	41.2	0:01	19.7	66.6	10.4	62	2 2	·	0.01	0.01	T			2020	2050
Nov-07 Nov-08	Tue Wed	44.9	0:01 13:39	40.7	23:41 5:58	18.6 <b>4.2</b>	50.5 42.8	-16.1 -7.7	<b>63</b>	2	2	0.28	0.07 0.01	0.03 T			0940 0215	1005 0220
Nov-08	Thu	54.1	15:39	44.2	6:25	9.9	42.8	6.4	59	2	2	0.02	0.01	0.01			0215	0835
Nov-10	Fri	51.6	11:27	29.8	23:59	21.8	49.2	-8.5	59	0	0	0.03	0.04	0.01			0233	0633
Nov-10	Sat	41.1	12:41	24.5	6:28	16.6	32.8	-7.9	57	1	2							
Nov-12	Sun	48.3	12:31	26.2	0:20	22.1	37.3	4.5	55	2	2	0.13	0.13	0.02			1950	2400
Nov-13	Mon	47.9	14:44	38.8	20:12	9.1	43.4	6.1	54	2	1	0.52	0.16	0.02			0001	0555
Nov-14	Tue	49.2	11:14	33.4	23:57	15.8	41.3	-2.1	54	2	2	0.02	0.10	0.02			0001	0333
Nov-15	Wed	54.7	14:00	30.1	3:43	24.6	42.4	1.1	53	1	2							
Nov-16	Thu	65.2	13:12	39.0	23:59	26.2	52.1	9.7	53	0	0	Т	Т	Т			0110	0150
Nov-17	Fri	55.2	13:27	30.5	6:51	24.7	42.9	-9.3	54	0	1			· ·			0110	0.00
Nov-18	Sat	61.4	13:23	32.8	2:03	28.6	47.1	4.2	52	2	2							
Nov-19	Sun	64.7	2:16	34.9	23:14	29.8	49.8	2.7	53	0	0	Т	Т	Т			0141	0435
Nov-20	Mon	54.9	13:34	28.3	6:35	26.6	41.6	-8.2	53	0	0	-						
Nov-21	Tue	62.9	12:58	38.4	0:06	24.5	50.7	9.1	52	0	2	Т	T	Т			2315	2400
Nov-22	Wed	63.7	12:28	35.7	23:59	28.0	49.7	-0.9	52	1	0	0.28	0.19	0.04			0001	0610
Nov-23	Thu	46.5	13:58	27.6	0:23	18.9	37.1	-12.7	53	2	0							
Nov-24	Fri	56.3	13:03	25.7	6:58	30.6	41.0	4.0	51	0	0							
Nov-25	Sat	68.6	12:54	31.7	5:11	36.9	50.2	9.2	50	0	2							
Nov-26	Sun	60.0	14:06	32.5	23:59	27.5	46.3	-3.9	50	0	0							
Nov-27	Mon	62.4	14:19	27.9	5:39	34.5	45.2	-1.1	50	0	0							
Nov-28	Tue	65.5	13:26	32.1	7:09	33.4	48.8	3.7	49	0	0							
Nov-29	Wed	71.1	13:35	39.1	7:23	32.0	55.1	6.3	49	0	0							
Nov-30	Thu	65.1	14:40	38.8	3:34	26.3	52.0	-3.2	50	0	1	T	T	T			2205	2225
TOTAL		4000		4440		007.4	4400.4	4-	4055	0.7		4 50	0.75	0.40				00.07
TOTAL		1806		1119	20	687.1	1462.4	-1.7	1655	27	31	1.50	0.75	0.16	0	0		26-27
NUMBER		30	30	30	30	30	30	30	30	30	30	10	10	8	0.0	0.0		AVE RH
AVERAGE NORMALS		60.20 60.35	12:23	37.29 38.03	10:14	22.90	48.75 49.19		55.17 53.98	0.90	1.03	Ave. Tot. 3.82	Ave. Max 0.63	Ave. Max 0.14	Ave. Tot. 0.0	Ave. Days 0.0	73.1 69.2	Percent Percent
DEPARTU		-0.15		-0.74		0.59	-0.44		1.18	-0.02	-0.01	-2.32	0.03	0.02	0.0	0.0	3.9	Percent
Max. Temp	_	82.2		58.8		36.9	68.7	13.1	63.0	Whole		0.52	0.12	0.02	0.0		Precip	24 Hr.
2017		Nov-03		Nov-02		Nov-25	Nov-03	Nov-02	Nov-04	AVERAGE	0.97	Nov-13	Nov-22	Nov-22			Amount	0.65
Ave.		1107 00		1107 02		1107 20	1107 00	1107 02	Nov-07	Normal	0.98	1107 10	1107 22	1101 22			Date	Nov 12
Departure										Depart.	-0.02						Date	Nov 13
Min. Temp		41.1		24.5		4.2	32.8	-16.1	49.0	SKY	AM	PM	≥ 0.10	Precip.	≥ 1.00	Precip.	≥ 2.00	Precip.
2017		Nov-11		Nov-11		Nov-08	Nov-11	Nov-07	Nov-28	CLEAR	15	12	4	DAYS	0	DAYS	0	DAYS
Ave.									Nov-29	PT. CLO.	3	5	HOTTEST	68.7	Highest	Lowest	COOLEST	32.8
Departure										CLOUDY	12	13	DAY	11-03	Mean	Mean	DAY	11-11
Days Max		0		MAX.	≥ 80	≥ 75	≥ 70	≥ 65	≥ 60	≥ 55	≥ 50	≥ 45	≥ 40	≥ 35	≥ 30	≥ 25	≥ 20	
Days Max	. >=90°F	0		DAYS	1	3	4	11	18	22	24	29	30	30	30	30	30	

PAGE #2	Nov	2017	West He	nrico Co	Glen A	llen Wea	ther Cer	nter 37.6	5537° N.	77.56929°	. W Koo	ntz						
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Nov	2nd PERIOD		WIND			REL. HU			BAROMETR							K		
2017	START	END	RUN	MAX.	TIME	MAX.	MIN.	MAX.	MIN.	AVE.	CHANGE	GLAZE	SLEET	SNOW	FOG	1 ×	DEW	FROST
Nov-01			18.9	10	12:07	95	69	30.26	30.17	30.22	0.12						4	
Nov-02			51.1	15	14:08	93	58	30.27	30.17	30.22	0.00						3	
Nov-03	2043	2155	45.7	15	20:20	97	55	30.18	30.03	30.11	-0.11						5	
Nov-04	1615	1650	83.4	17	0:31	94	70	30.31	30.16	30.24	0.13						Р	
Nov-05	0001	0250	26.3	9	17:44	96	92	30.24	30.08	30.16	-0.08				2		P	
Nov-06	2130	2135	87.3	19	12:50	98	69	30.10	29.93	30.02	-0.14				1		5	
Nov-07	1120	2225	109.0	17	22:34	96	79	30.17	30.05	30.11	0.09				1		1	
Nov-08	0515	0750	121.4	19	7:40	97	89	30.24	30.12	30.18	0.07				1		P	
Nov-09	1245	1330	51.6	12	0:05	97	91	30.20	30.06	30.13	-0.05				1		P	
Nov-10			121.1	25	19:24	98	48	30.56	30.05	30.31	0.18				3		Р	
Nov-11			42.2	12	0:10	89	36	30.65	30.50	30.58	0.27	1						N
Nov-12			14.0	7	9:36	95	46	30.52	30.35	30.44	-0.14	1			-	1		4
Nov-13			36.2	10	11:15	98	85	30.36	30.29	30.33	-0.11				-		P	_
Nov-14			50.0	16	9:45	98	66	30.39	30.29	30.34	0.02	1			-		2	3
Nov-15			23.5	11	9:06	96	64	30.30	30.05	30.18	-0.16				1		-	5
Nov-16			57.0	18	11:32	92	38	30.16	29.91	30.04	-0.14	1			-	-	3	
Nov-17			20.9	10	11:50	94	43	30.25	30.12	30.19	0.15						1	3
Nov-18			161.9	25	13:29	62	48	30.12	29.47	29.80	-0.39						3	
Nov-19			112.8	29	1:27	83	36	30.01	29.42	29.72	-0.08						Р	3
Nov-20			43.1	12	11:17	87	34	30.26	30.01	30.14	0.42							3
Nov-21			119.0	23	13:22	91	43	30.23	30.07	30.15	0.01						N	
Nov-22			78.7	20	16:59	96	41	30.20	29.92	30.06	-0.09						Р	
Nov-23			25.5	13	9:26	93	48	30.22	30.08	30.15	0.09							3
Nov-24			25.7	11	13:35	97	35	30.12	29.95	30.04	-0.11						-	5
Nov-25			57.7	18	12:25	96	40	29.96	29.75	29.86	-0.18	1					3	4
Nov-26			20.8	10	9:48	89	35	30.10	29.90	30.00	0.15						3	5
Nov-27			24.8	12	13:02	94	30	30.28	30.08	30.18	0.18						1	3
Nov-28			46.9 48.8	16 12	11:57 4:45	92 93	<b>30</b> 31	30.41 30.28	30.28 30.17	30.35 30.23	0.16 -0.12						1	3
Nov-29 Nov-30			48.8	14	9:43	93 88	53	30.28	30.17	30.23	-0.12						2	
1107-30			49.0	14	9.43	00	აა	30.20	30.04	30.10	-0.07							
TOTAL			1774.9	457		2784	1602	907.63	901.47	904.55	TOTAL	0	0	0	6	0	14	11
NUMBER	Mar. Wi	nd Run	30	30	30	30	30	30	30	30	NORMAL	0.0	0.3	0.8	2.6	0.8	11.1	8.8
AVERAGE	Total	1774.9	59.2	15.2	11:03	92.80	53.40	30.25	30.05	30.15	DEPART.	0.0	-0.3	-0.8	3.4	-0.8	2.9	2.2
NORMALS	Miles	1428.4	47.6	17.43		91.7	46.8	30.24	30.02	30.13	Rating ►	0	0	0	9	0	35	39
Departures	Miles	346.5	11.5	-2.20		1.1	6.6	0.01	0.02	0.02	Intensity	GLAZE	li li	≥	(2)	IZ	>	#
	MAXIMUM	Dates	161.9	29	SSW	98	92	30.65	30.50	30.58	0.42	֝֝ <u>֚</u>	SLEET	SNOW	FOG		Dew	Frost
	DATES	1	Nov-18	Nov-19	1:27	Nov-06	Nov-05	Nov-11	Nov-11	Nov-11	Nov-20			<u></u>				
		2				Nov-10						5. Very He	•				o Dew Ob	
		3				Nov-13						4. Heavy-L				P- Precip	prevent o	bs.
	NAININAI INA	Dotos	440	-		Nov-14	00	00.00	29.42	00.70	0.00	3. Modera						
	MINIMUM		14.0 Nev 42	7 Nov. 42		62 Nev 48	30 New 27	29.96		29.72 Nov. 10	-0.39 Nov. 49	2. Light - >		Trocs				
	DATES	1	Nov-12	Nov-12		Nov-18	Nov-27	Nov-25	Nov-19	Nov-19	Nov-18	1. Very Lig						
Dave Min	22 °E	2 11	MIN.	< 7F	< 70	< CE	Nov-28	< FF	< 50	< 45	< 40			sity missing		< 45		
Days Min. o		0	DAYS	≤ 75 30	≤ 70 30	≤ 65 30	≤ 60 30	≤ 55 28	≤ 50 25	≤ 45 25	≤ 40 21	≤ 35 15	≤ 30 8	≤ 25 1	≤ 20 0	≤ 15 0		
Days Will ?	-10 F	U	DATS	30	30	30	30	∠8	∠3	20	Zī	10	0		U	U		

PAGE #3	West Henrico Co Glen Allen Weather Center 37.65537° N. 77.56929° W Koontz
Nov	40 REMARKS FOR THE MONTH
2017	November - 2017
Nov-01	BEAUTIFUL WEATHER FOR NOV. AND NO KILLING FROST YET THIS FALL
Nov-02	CLOUDS AT NIGHT - NO DEW ON DECK BUT GUTTATION HAD THE GRASS VERY WET-CLOUDS TILL 0900 THEN CLEAR TO 1130 & PC WITH CUMULUS TO 1725 THEN CLEAR TO DARK
Nov-03	VERY HEAVY DEW-VERY WARM FOR NOVREC. FOR DATE 83°F -PM HAD SCATTERED CIRRUS BUT EST. ONLY 20% CLOUDS
Nov-04	ALL SURFACES WET FROM RAIN YESTERDAY-ONLY SPRINKLES TODAY UNTIL AFTER DARK -NO SUN SEEN TODAY-3RD PD. OF PRECIP. 2245-2400
Nov-05	SPRINKLES AT NIGHT AND A LITTLE MIST AND DRIZZLE TODAY-NO SUN SEEN-COOL
Nov-06	AM WAS ABOUT 65-70% CLOUDY AND PM EST. TO BE 50-60% CLOUDY
Nov-07	ONLY A LITTLE DEW ON GRASS-VISIBILITY CUT DURING RAIN AT 1410-FALLING TEMPS. DURING DAY
Nov-08	VISIBILITY CUT BY DRIZZLE - ON AND OFF DRIZZLE MOST OF DAY-HEAVIEST PD. 1315-1915
Nov-09	3RD PD. OF PRECIP. 1640-2055, 4TH PD. 2200-2225-DRIZZLE AND MIST-NO REAL SHOWERS TODAY AND NO SUN
Nov-10	FOG CLEARED TO A BLUE SKY AT 0845 AND BECAME A WINDY DAY AS HIGH PRESSURE BUILT IN RAPIDLY
Nov-11	WIND AND LOW REL. HUMIDITY PREVENTED FROST BUT OUR FIRST HARD FREEZE-COLDEST SINCE MARCH 17, 2017 WHEN IT WAS 23.3°F-VERY THIN CIRRUS IN AM BUT MUCH SOLAR RADIATION
Nov-12	CLOUDY ALL DAY BUT IN EARLY AM SUN SEEN THROUGH CIRROSTRATUS CLOUDS
Nov-13	CLOUDY TO 1500 THEN TOTALLY CLEAR-PM EST. 65% CLOUDY
Nov-14	MORE DEW ON GRASS BUT ROOFS HAD HEAVY FROST-CIRROSTRATUS THIN WITH SUN THROUGH CLOUDS-LITTLE SUN AFTER 1000-CLOUDS BECAME ALTOSTRATUS-COOLER DAY THAN EXPECTED
Nov-15	CLEAR UNTIL 1000 THEN CIRRUS GIVING MOSTLY CLOUDY SKIES-ALTOSTRATUS AND ALTOCUMULUS IN PM
Nov-16	ONLY SPRINKLES OVERNIGHT - SKY MIRROR INDICATED DEW RATING OF 3-DAY BECAME BEAUTIFULLY CLEAR AND WARM FOR NOV. DAY-SOME CIRRUS FROM 1040-1150
Nov-17	SKY MIRROR HAS A LITTLE FROZEN DEW UNDER FROST-CLEAR AM BUT CIRRUS AND CIRROSTRATUS IN PM
Nov-18 Nov-19	WARM BREEZY AFTERNOON WITH APPROACHING COLD FRONT TO PASS TOMORROW-PM EST. 65% CLOUDY 29MPH S/SW GUST AT 0127-CLEAR BUT WINDY DAY-SOME CLOUDS AFTER 1615
Nov-19	CLEAR BUT VERY DRY AIR PREVENTED HEAVY FROST-VERY CLEAR WITH LOW DEW POINT OF 21.5°F AT 0756
Nov-21	WIND IN AM PREVENTED DEW-CIRRUS CAME IN ABOUT 1000 AND COMPLETE SKY COVERAGE BY 1115-AM 50-60% CLOUDY AND PM 90% CLOUDY-AM HIGH RH WAS 73%-91% BY 2400 FROM RAIN
Nov-22	CLOUDY UNTIL 0900 THEN TOTALLY CLEAR BY 0940 AND REMAINED CLEAR REST OF DAY
Nov-23	CLOUDY UNTIL 1000 AND TOTALLY CLEAR BY 1015 THEN CLEAR REST OF DAY-MUCH COLDER TODAY
Nov-24	VERY HEAVY FROST-TOTAL SUNSHINE TODAY
Nov-25	CIRRUS CAME IN AT 1130 AND CIRROSTRATUS BY 1330-WARM AND CLOUDY REST OF DAY
Nov-26	A LITTLE ICE ON GRASS BUT NOT SEEN ONLY FELT-FEW CIRRUS IN AM BUT PM WAS VERY CLEAR
Nov-27	BEAUTIFUL DAY FOR END OF NOVVERY HEAVY AM FROST BUT STRONG WARM-UP OF 34.5°F
Nov-28	FROZEN DEW ON MIRROR-CLEAR ALL DAY WITH LARGE TEMP. RANGE AGAIN
Nov-29	NO DEW EXCEPT ON GRASS-A REALLY GREAT LATE NOV. AFTERNOON WITH ALMOST FULL SUN & 71°F MAX.
Nov-30	DEW MAINLY ON GRASS-VERY LITTLE CONDENSATION ON SKY MIRROR - ANOTHER WARMER THAN AVE. NOV. DAY - SOME CLOS. NOON TO 1300 & IN LATE PM- PM CLOUDS EST 35-40%
DATE	EXTENSION OF LENGTHY DAILY REMARKS
Nov-11	THROUGH CLOUDS THEN PM SKY WAS COVERED WITH CIRRUS AND CIRROSTRATUS THAT BECAME THICKER
	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

Page 4	West Henrico Co Glen Allen Weather Center 37.65537° N. 77.56929° W Koontz  DAILY RECORDS FOR THE MONTH
Nov	DAILT RECORDS FOR THE MONTH
2017	The Glen Allen Station had 17 Records or Record Ties in November 2017
1	
2	The minimum temperature on the 2nd was 58.8°F, a new 9-year warm daily minimum temperature record for the date - the old record was 55.1°F in 2015.
3	
4	
5	
6	
7	The daily precipitation on the 7th was 0.28 inches, a new 9-year HIGH daily precipitation record for the date - the old record was 0.20 inches in 2015.
8	The maximum temperature on the 8th was 44.9°F, a new 9-year cold daily maximum temperature record for the date - the old record was 56°F in 2014.
	The daily temperature range on the 8th was 4.2°F, a new 9-year LOW daily temperature range record for the date - the old record was 17.8°F in 2015.
	The daily precipitation on the 8th was 0.02 inches, a new 9-year HIGH daily precipitation record for the date - the old record was Trace in 2012 and 2008.
9	The daily temperature range on the 9th was 9.9°F, a new 9-year LOW daily temperature range record for the date - the old record was 15.8°F in 2015.  The maximum temperature on the 10th was 49.3°F, a new 9-year cold daily maximum temperature record for the date - the old record was 58°F in 2008.
10	The minimum temperature on the 10th was 49.3°F, a new 9-year cold daily minimum temperature record for the date - the old record was 38°F in 2008.  The minimum temperature on the 10th was 29.8°F, a new 9-year LOW daily minimum temperature record for the date - the old record was 32°F in 2008.
11	The minimum temperature on the 10th was 29.8°F, a new 9-year LOW daily minimum temperature record for the date - the old record was 32°F in 2008.  The minimum temperature on the 11th was 24.5°F, a new 9-year LOW daily minimum temperature record for the date - the old record was 28°F in 2008.
	The maximum temperature on the 11th was 24.5 F, a new 9-year cold daily maximum temperature record for the date - the old record was 52°F in 2008.
12	The minimum temperature on the 12th was 26.2°F, a new 9-year LOW daily minimum temperature record for the date - the old record was 29°F in 2011.
13	The daily precipitation on the 13th was 0.52 inches, a new 9-year HIGH daily precipitation record for the date - the old record was 0.39 inches in 2012.
14	The daily proorphilates on the felt was 5.02 menos, a new o year their daily proorphilates for the date of the state of th
15	
16	
17	
18	
19	
20	The minimum temperature on the 20th was 28.3°F, a new 9-year LOW daily minimum temperature record for the date - the old record was 29°F in 2008.
21	The daily precipitation on the 21st was a trace, a new 9-year HIGH daily precipitation record for the date - the old record was 0.00 inches.
22	The daily precipitation on the 22nd was 0.28 inches, a new 9-year HIGH daily precipitation record for the date - the old record was 0.06 inches in 2011.
23	
24	
25	
26 27	The daily temperature range on the 27th was 34.5°F, a new 9-year HIGH daily temperature range record for the date - the old record was 30.9°F in 2015.
28	The daily temperature range on the 28th was 33.4°F, a new 9-year HIGH daily temperature range record for the date - the old record was 30.9°F in 2015.
29	The state of the s
30	
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