<b>PAGE #1</b>	2	Sep	<b>2016</b>	West He	nrico Co.		llen Weat	her Cente	er 37.65	537° N. 7	7.56929°	W Koc	0 <b>ntz</b> 14	15	16	17	18	10	
Sep	Week	3		ATURE °F	0	TEMPERATURE °F			10				13 14 15 PRECIPITATION			FROZ. PRECIP.		18 19 1st PERIOD	
2016	Day	MAX.	Time	MIN.	Time	RANGE	MEAN	CHANGE	SOIL	AM	PM	Liquid	1 Hr.	5 Min.	NEW	GROUND	START	END	
Sep-01	Thu	83.7	13:21	71.8	7:08	11.9	77.8	-5.2	79	2	2	0.01	0.01	Т			0043	0105	
Sep-02	Fri	79.1	14:50	67.3	7:29	11.8	73.2	-4.6	78	2	2								
Sep-03	Sat	72.3	11:53	65.1	5:13	7.2	68.7	-4.5	76	2	2	0.26	0.09	0.02			0100	0600	
Sep-04	Sun	78.2	13:25	61.6	23:58	16.6	69.9	1.2	75	2	2	Т	Т	Т			0750	0755	
Sep-05	Mon	84.5	15:15	56.6	6:59	27.9	70.6	0.6	73	0	1								
Sep-06	Tue	91.8	15:32	60.0	6:58	31.8	75.9	5.4	74	0	0								
Sep-07	Wed	90.2	16:23	69.2	4:45	21	79.7	3.8	76	2	2	0.25	0.11	0.02			0652	0701	
	Thu	93.8	15:18	71.8	6:39	22	82.8	3.1	76	1	1	0.03	0.05	0.02			0045	0155	
Sep-09	Fri	96.9	15:08	72.6	6:31	24.3	84.8	2.0	77	1	1				-				
Sep-10	Sat	93.3	14:36	73.8	6:17	19.5	83.6	-1.2	78	2	1								
-	Sun	85.8	11:28	66.0	23:58	19.8	75.9	-7.6	78	0	2				-				
Sep-12	Mon	85.2	15:23	61.7	5:51	23.5	73.5	-2.5	76	0	1				-				
Sep-13	Tue	88.7	15:28	66.4	2:58	22.3	77.6	4.1	76	1	0								
Sep-14	Wed	94.6	14:59	69.7	7:01	24.9	82.2	4.6	76	1	0				-				
	Thu	76.3	0:01	68.0 65.1	6:25	8.3	72.2	-10.0	76	2	2								
Sep-16	Fri	81.9 86.0	15:21	63.1	2:49 6:51	16.8 22.9	73.5 74.6	1.3 1.1	75 75	2	1								
Sep-17	Sat Sun	89.8	15:34 15:21	69.7	5:28		74.6	5.2	75	1	1								
Sep-18 Sep-19	Mon	77.9	0:01	70.8	22:44	20.1	79.8	-5.4	75	2	2	2.02	0.67	0.14	-		0108	0430	
Sep-19 Sep-20	Tue	74.0	15:29	69.3	6:51	4.7	74.4	-3.4	76	2	2	Z.02	0.67 T	0.14 T	-		0108	0430	
Sep-20	Wed	74.0	12:48	71.1	3:53	2.9	72.6	0.9	74	2	2	0.49	0.34	0.14			0243	0610	
Sep-22	Thu	80.1	16:11	68.3	2:51	11.8	74.2	1.6	74	2	2	0.43	0.14	0.05	-		0522	0625	
Sep-23	Fri	86.2	14:53	63.1	6:36	23.1	74.7	0.5	74	0	0	0.114	0.14	0.00	-		0022	0020	
-	Sat	86.6	14:29	63.3	6:51	23.3	75.0	0.3	74	0	1								
Sep-25	Sun	74.4	14:30	63.8	5:54	10.6	69.1	-5.8	75	2	2	0.01	0.01	Т			0033	0105	
Sep-26	Mon	70.9	15:24	64.3	0:01	6.6	67.6	-1.5	74	2	2	0.06	0.06	0.02			2303	2400	
Sep-27	Tue	72.3	16:09	67.2	1:17	5.1	69.8	2.2	73	2	2	0.09	0.05	0.01			0001	0400	
Sep-28	Wed	78.6	13:21	66.5	23:42	12.1	72.6	2.8	73	2	2	1.51	0.82	0.27			0325	0355	
Sep-29	Thu	75.4	14:18	66.0	5:15	9.4	70.7	-1.8	71	2	2	1.41	0.60	0.14			0001	0225	
Sep-30	Fri	71.4	13:06	65.7	8:27	5.7	68.6	-2.1	72	2	2	0.41	0.15	0.05			0001	0155	
TOTAL		2474		1999		475.0	2236.4	-14.4	2254	42	43	6.69	3.10	0.88	0.0	0.0		26-27	
NUMBER		30	30	30	30	30	30	30	30	30	30	13	13	11	0	0		AVE RH	
AVERAGE		82.46	13:39	66.63	7:55	15.83	74.55		75.13	1.40	1.43	Ave. Tot.	Ave.Max	Ave.Max			78.4	Percent	
Normals		81.12		61.38		19.74	71.25		73.43	0.96	1.02	3.67	1.10	0.19			73.4	Percent	
Departure		1.35		5.25		-3.90	3.30		1.70	0.44	0.41	3.02	-0.28	0.08			5.0	Percent	
Max ≥70°F		97		74		31.8	84.8	5.4	79.0		le Day	2.02	0.82	0.27			Precip	24 Hr.	
30 DAYS	1	Sep-09		Sep-10		Sep-06	Sep-09	Sep-06	Sep-01	Average	1.42	Sep-19	Sep-28	Sep-28			Amount	2.86	
Departure 20.0	2									Normal	1.08						Date	28th	
30.9	3	74				0.0	07.0	40.0	74.0	Depart	0.34	- DM			4.00		Date	29th	
	Dates	71		57		2.9	67.6	-10.0	71.0	SKY	AM	PM	>= 0.10	INCHES	>= 1.00	INCHES	>= 2.00	INCHES	
MIN >70°F	1	Sep-26		Sep-05		Sep-21	Sep-26	Sep-15	Sep-29		6	4	8	DAYS	3	DAYS	0	DAYS	
6 DAYS	2									PT. CLO. CLOUDY	6 18	9 17	HOTTEST DAY	84.8 9-09	Highest Mean	Lowest Mean	COOLEST DAY	67.6 9-26	
Departure	32 °F	0	≤32 °F	0	MAX.	≥95	≥90	≥85	≥80	≥75	≥70	≥65	DAY ≥60	9-09 ≥55	Wear	Wearr	DAT	9-20	
4.1	≥90 °F	7	≥32 P ≥70 °F	6	DAYS	295	<u>≥</u> 90 7	205 14	<u>≥00</u> 17	275	30	30	30	200 30					
4.1	200 1		LIVE	v	DATS	-		14	11	25	30	30	30	30					

PAGE #2	Sep	2016					her Cente											
20 Sep	21 2nd P	22 ERIOD	23	24 WIND	25	REL. HU		28			31	32	33	34	35	36	37	38
2016	START	END	RUN	MAX.	TIME	MAX.	MIN.	MAX.	MIN.	AVE.	CHANGE	GLAZE	SLEET	SNOW	FOG	R	DEW	FROST
Sep-01	1350	1400	39.5	16	11:16	99	66	29.99	29.82	29.91	-0.12	OLALL	ULLI	onon	100		P	incor
Sep-02	1000		109.2	17	9:07	96	50	30.10	29.97	30.04	0.13						4	
Sep-03	1310	1500	98.4	24	10:54	97	75	30.15	29.95	30.05	0.01						P	
Sep-04	0835	0840	43.1	16	11:31	95	53	30.25	30.14	30.20	0.15						Р	
Sep-05			23.0	14	11:24	99	44	30.26	30.12	30.19	0.00						5	
Sep-06			27.9	23	14:49	99	39	30.15	30.03	30.09	-0.10						4	
Sep-07	0930	1140	20.7	22	20:46	95	54	30.12	29.97	30.05	-0.04					2	3	
Sep-08			28.9	18	1:15	99	49	30.02	29.90	29.96	-0.09						Р	
Sep-09			46.5	16	14:24	86	36	30.02	29.93	29.98	0.02						1	
Sep-10			81.0	20	21:58	90	53	30.05	29.93	29.99	0.02						N	
Sep-11			81.3	20	11:01	93	47	30.15	29.92	30.04	0.04						2	
Sep-12			37.6	14	11:03	91	43	30.23	30.14	30.19	0.15						4	
Sep-13			38.3	21	15:19	98	45	30.24	30.09	30.17	-0.02						3	
Sep-14			40.3	12	4:28	89	30	30.14	30.02	30.08	-0.09						1	
Sep-15			81.0	21	10:39	93	71	30.24	30.08	30.16	0.08						3	
Sep-16			40.1	17	13:46	89	48	30.29	30.19	30.24	0.08	-					1	
Sep-17			30.0	14	20:32	98	52	30.24	30.09	30.17	-0.08	-					3	
Sep-18			28.5	17	15:02	100	51	30.11	29.97	30.04	-0.13				3	-	5	
Sep-19	0735	0810	40.8	17	11:56	98	88	30.07	29.96	30.02	-0.02	-				2	P	
Sep-20			108.7	17	14:17	100	84	30.11	30.03	30.07	0.05					-	P	
Sep-21	0900	0950	74.8	14	13:22	100	90	30.14	30.07	30.11	0.04	-					P	
Sep-22	1417	1445	43.3	15	7:22	98	76	30.13	30.05	30.09	-0.02						P	
Sep-23			10.7	9	13:14	99	44	30.09	29.98	30.04	-0.05	-					4	
Sep-24			37.8 14.3	13 12	13:07 10:24	99 95	58 59	30.14 30.21	30.01 30.13	30.08 30.17	0.04	-					D D	
Sep-25 Sep-26	ł		32.8	12	23:17	95 95	59 69	30.21	29.99	30.17	-0.09					+	P N	
Sep-20 Sep-27	0530	0615	20.9	13	11:51	95 99	85	29.99	29.99	29.95	-0.09 -0.13					3	P	
Sep-28	0635	0740	20.9	22	15:50	99	77	30.02	29.90	29.95	0.02					1	P	
Sep-20	0348	0535	62.5	22	16:32	99	86	30.02	29.90	30.05	0.02	-				•	P	
Sep-30	0345	0335	67.5	16	10:32	100	95	30.12	30.03	30.03	0.03					1	P	
	1010								23.00							· ·	· ·	
TOTAL	Colu	mn 23	1433.8	501		2887	1817	904.05	900.28	902.17	TOTAL	0	0	0	1	5	15	0
NUMBER	Mar. Wi	ind Run	30	30	30	30	30	30	30	30	NORMAL	0.0	0.0	0.0	4.4	6.1	17.7	0.0
AVERAGE	Total	1433.8	47.79	16.7	13:01	96.23	60.57	30.14	30.01	30.07	DEPART.	0.0	0.0	0.0	-3.4	-1.1	-2.7	0.0
Normals	Miles	1347.7	45.16	16.1		94.9	51.8	30.12	29.98	30.05	DAYS		L	_				L
Departures	Miles	86.1	2.63	0.6		1.4	8.7	0.01	0.03	0.03	OF 🕨	GLAZE	SLEET	NOW	G	R	≥	FROST
	MAXIMUM	Dates	109.2	24	NNE	100	95	30.29	30.19	30.24	0.15	ы	SL	SN	FOG	1.2	DEW	Ë
	DATES	1	Sep-02	Sep-03	10:54	Sep-18	Sep-30	Sep-16	Sep-16	Sep-16	Sep-12	5. Very Hea	avy					
		2				Sep-20						4. Heavy-U	nusual					
		3				Sep-21						3. Moderat	te - Ave.					
		4				Sep-30						2. Light - <	Ave.					
	MINIMUM	Dates	10.7	9		86	30	29.99	29.82	29.91	-0.13	1. Very Lig	ht - Slight ·	- Trace				
	DATES	1	Sep-23	Sep-23		Sep-09	Sep-14	Sep-01	Sep-01	Sep-01	Sep-27	M - Event						
		2						Sep-27				P - Rain hi	-	w Observat	tion			
	MIN.	≤75	≤70	≤65	≤60	≤55	≤50	≤45	≤40	≤35	≤30	N-	NONE					
	DAYS	30	22	9	1	0	0	0	0	0	0							

PAGE #3	West Henrico Co Glen Allen Weather Center 37.65537° N. 77.56929° W Koontz
Sep	REMARKS FOR THE MONTH
2016	September - 2016
Sep-01	MOSTLY CLOUDY ALL DAY BECAUSE OF A COLD FRONTAL PASSAGE AROUND 1700
Sep-02	SOLAR HALO SEEN TODAY-HEAVY DEW EARLY -WIND REDUCED DEW BY SUNRISE-TROPICAL STORM HERMINE HEADED FOR VA COAST-BEAUTIFUL SUNSET
Sep-03	THE TIMES ON 3 OTHER SPRINKLES NOT RECONLY LIGHT RAIN-PRECIP. PDS. WERE MAINLY DRIZZLE
Sep-04	2 SPRINKLES IN AM-TOTALLY CLOUDY WITH ALTOSTRATUS THEN BROKEN SKY STARTED AT 1300-1630 THEN PC AND CLEAR BY 1800-PM EST. 70-75% CLOUDY
Sep-05	COOLEST AM SINCE JUNE 19TH WHEN IT WAS 55.1°F -A VERY CLEAR AM THEN CIRRUS CAME IN AROUND 1145 AND CIRROSTRATUS BY 1600
Sep-06	VERY CLEAR HOT AND VERY DRYING DAY WITH WIND AND LOW REL. HUMIDITY-ALSO A LARGE TEMP. RANGE TODAY
Sep-07	MORE DEW ON GRASS THAN SKY MIRROR-3RD PD. PRECIP. 2010-2125 ASSOC. WITH THUNDERSTORM WHICH WAS STRONGER TO OUR EAST
Sep-08	VERY HOT FOR SEPT. AND ALSO HUMID-CLEAR PD. 1215-1315-AM EST. 55% CLOUDY, PM EST. 45-50% CLOUDY
Sep-09	HOTTEST SINCE AUG. 26, 2016 WHEN IT WAS 97.2°F -SUN THROUGH CIRRUS-AM EST. 30-40% CLOUDY-PM MORE CIRRUS AND EST. 60-70% CLOUDY SOME SUN THROUGH CIRRUS THEN CIRROSTRATUS-CLEAREST PD. 1300-1415 THEN SCATTERED CUMULUS UNTIL 1700
Sep-10	
Sep-11 Sep-12	CLOUDS CAME IN AROUND 1000 AS SCATTERED CUMULUS, CIRRUS AND STRATUS BY NOON-PM WAS CLOUDY BUT AM EST. 25% CLOUDY AM ONLY SCATTERED FIBROUS CIRRUS AND PM HAD MORE SCATTERED CUMULUS
Sep-12 Sep-13	AM ONLY SCATTERED FIBROUS CIRRUS AND PM HAD MORE SCATTERED COMOLOS
Sep-13	VERY HOT FOR MID-SEPT. ALSO VERY CLEAR FROM 1030 TO SUNSET-NEW REC. MAX. FOR DATE HERE
Sep-14 Sep-15	CLEAR FROM SUNRISE TO 0830 THEN CLOUDY THE REST OF DAY
Sep-16	CLEARING STARTED AT 1130 AND VERY CLEAR BY 1245-CUMULUS AND STRATOCUMULUS FROM 1515-1600 THEN ALTOCUMULUS
Sep-17	CLOUDY FROM 0645-0835 THEN CLEAR 0845-1035 AND PC THE REST OF DAY-VERY DRY-AUG., SEPT. RAIN DEFICIT NOW EQUALS 4.70 INCHES
Sep-18	COODET HOW DOWN DOWN DOWN DOWN DOWN DOWN DOWN DO
Sep-19	THUNDERSTORM RATED 2-1-3 BET. 0200-0300-3RD PD. OF PRECIP. 0955-1700-A GREATLY NEEDED RAIN-MOST RAIN IN A CALENDAR DAY SINCE NOV. 9, 2015
Sep-20	CLOUDY, DAMP AND COOL DAY WITH A VERY LIGHT SPRINKLE-BUT MUCH MORE RAIN IN SE VA
Sep-21	3RD PD. OF PRECIP. 1135-1420-HEAVIEST SHOWER OCCURRED AROUND 1430
Sep-22	3RD PD. SHOWER 1623-1725-CLOUDY MOST OF DAY AND MUCH MORE HUMID
Sep-23	HEAVY DEW MAINLY GUTTATION WITH DROPS ON TIPS OF GRASS BUT STILL SOME LIQUID ON GRASS FROM THE 1623-1705 RAIN YESTERDAY
Sep-24	CLEAR UNTIL 1500 THEN CUMULUS CAME IN AND WAS CLOUDY BY 1715-VERY CALM CLEAR NIGHT AND A VERY HEAVY DEW
Sep-25	CLOUDY ALL DAY EXCEPT A BROKEN OVERCAST FROM 1315-1415
Sep-26	3RD PD. SPRINKLE 0810-1835
Sep-27	3RD SPRINKLE 1415-1435, 4TH PD. THUNDERSTORM 1550-1600-TS WAS STRONG WITH HAIL THAT PASSED TO OUR NW AND MUCH LIGHTNING-5TH PD. 1625-1725, 6TH PD. 1855-2030, 7TH PD. 2140-2400
Sep-28	ON AND OFF LIGHTNING FROM MIDNIGHT TO 0430-6 SPRINKLES DURING DAY BUT SO LIGHT THEY DID NOT MAKE 0.01 INCH BUT THEN DRIZZLE AFTER 2200
Sep-29	SOME AREAS TO EAST AND SE RECEIVED VERY HEAVY RAIN, VARINA REPORTED ALMOST 8 INS. OF RAIN THAT OCCURRED ON THE 28TH-CLOUDY DAMP DAY-BREEZY AFTERNOON - 3RD PD 0830-1005
Sep-30	DRIZZLE FROM MIDNIGHT TO 0430 - CLOUDY AND DAMP ALL DAY WITH PERIODS OF DRIZZLE-3RD PD OF DRIZZLE FROM 1305 TO 1555 - SHOWER FROM 1610 TO 1535 & A SHOWER 1848-2200
DATE	EXTENSION OF LENGTHY DAILY REMARKS
Sep-27	ON & OFF THUNDER DURING THE NIGHT, MOST LIGHTNING TO EAST-AIRPORT REPORTED 4.16 INCHS OVER NIGHT & ANOTHER 0.58 DURING THE DAY FOR A TOT. OF 4.74 INCHES A NEW DAILY RECORD.
	THIS HEAVY RAINFALL SCENARIO WAS CAUSED BY A SLOW MOVING UPPER LOW TO OUR NW PULLING A SE AND EASTERLY FLOW OFF THE ATLANTIC ALSO ASSOC. WITH A WARM FRONT/STATIONARY FRONT
Sep-29	4TH PD. OF PRECIP FROM 2100 TO 2400
	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
L	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
Sep	DAILY RECORDS FOR THE MONTH
2016	The Glen Allen Station had 33 Records or Record Ties in September 2016
1	The daily temperature range on the 1st was 11.9°F, a new 8 year LOW daily temperature range record for the date - the old record was 17°F in 2012.
2	The daily temperature range on the 2nd was 11.8°F, a new 8 year LOW daily temperature range record for the date - the old record was 17°F in 2013.
3	The daily precipitation on the 3rd was 0.26 inches, a new 8 year HIGH daily precipitation record for the date - the old record was a trace in 2014 and 2012.
	The daily temperature range on the 3rd was 7.2°F, a new 8 year LOW daily temperature range record for the date - the old record was 15°F in 2012.
	The maximum temperature on the 3rd was 72.3°F, a new 8 year LOW daily maximum temperature record for the date - the old record was 78°F in 2009.
4	The maximum temperature on the 4th was 78.2°F, a new 8 year LOW daily maximum temperature record for the date - the old record was 82°F in 2013.
5	
6	
7	The minimum temperature on the 7th was 69.2°F, a new 8 year warm daily minimum temperature record for the date - the old record was 67.5°F in 2015.
8	The maximum temperature on the 8th was 93.8°F, a new 8 year HIGH daily maximum temperature record for the date - the old record was 91.5°F in 2015.
9	The maximum temperature on the 9th was 96.9°F, a new 8 year HIGH daily maximum temperature record for the date - the old record was 93.5°F in 2015.
	The daily temperature range on the 9th was 24.3°F, a new 8 year HIGH daily temperature range record for the date - the old record was 23°F in 2010.
10	The minimum temperature on the 10th was 73.8°F, a new 8 year warm daily minimum temperature record for the date - the old record was 69.5°F in 2015.
	The maximum temperature on the 10th was 93.3°F, a new 8 year HIGH daily maximum temperature record for the date - the old record was 91°F in 2013.
<u>11</u> 12	
12	
13	The maximum temperature on the 14th was 94.6°F, a new 8 year HIGH daily maximum temperature record for the date - the old record was 92°F in 2008.
14	The maximum temperature on the 15th was 76.3°F, a new 8 year LOW daily maximum temperature record for the date - the old record was 78°F in 2006.
10	The minimum temperature on the 15th was 68°F, and equaled the 8 year HIGH daily minimum temperature record for the date - the old record was rot in 12015 and 2012.
	The daily temperature range on the 15th was 8.3°F, a new 8 year LOW daily temperature range record for the date - the old record was 20°F in 2008.
16	
17	
18	The maximum temperature on the 18th was 89.8°F, a new 8 year HIGH daily maximum temperature record for the date - the old record was 85.2°F in 2015.
	The minimum temperature on the 18th was 69.7°F, a new 8 year warm daily minimum temperature record for the date - the old record was 65°F in 2012.
19	The minimum temperature on the 19th was 70.8 a new 8 year warm daily minimum temperature record for the date - the old record was 64.1°F in 2015.
	The daily precipitation on the 19th was 0.96 inches, a new 8 year HIGH daily precipitation record for the date - the old record was 0.02 inches in 2012.
	The daily temperature range on the 19th was 7.1°F, a new 8 year LOW daily temperature range record for the date - the old record was 15°F in 2008.
20	The minimum temperature on the 20th was 69.5°F, a new 8 year warm daily minimum temperature record for the date - the old record was 64.8°F in 2015.
	The daily temperature range on the 20th was 4.7°F, a new 8 year LOW daily temperature range record for the date - the old record was 13°F in 2011.
	The daily precipitation on the 20th was T inches, and equaled the 8 year HIGH daily precipitation record for the date - the old record was set in 2011.
21	The minimum temperature on the 21st was 71.1°F, a new 8 year warm daily minimum temperature record for the date - the old record was 66°F in 2011.
	The daily temperature range on the 21st was 2.9°F, a new 8 year LOW daily temperature range record for the date - the old record was 7.9°F in 2015.
22	The daily precipitation on the 22nd was 0.14 inches, a new 8 year HIGH daily precipitation record for the date - the old record was 0.12 inches in 2011.
23	
24	
25	
26	
27	The maximum temperature on the 27th was 72.3°F, a new 8 year LOW daily maximum temperature record for the date - the old record was 73°F in 2013.
	The daily temperature range on the 27th was 5.1°F, a new 8 year LOW daily temperature range record for the date - the old record was 13°F in 2010 and 2008.
28	The daily temperature range on the 28th was 12.1°F, a new 8 year LOW daily temperature range record for the date - the old record was 12.8°F in 2015.
	The daily precipitation on the 28th was 1.51 inches, a new 8 year HIGH daily precipitation record for the date - the old record was 0.21 inches in 2015.
29 30	The maximum temperature on the 30th was 71.4°F, a new 8 year LOW daily maximum temperature record for the date - the old record was 73°F in 2009.
30	The daily temperature range on the 30th was 71.4°F, a new 8 year LOW daily maximum temperature record for the date - the old record was 73°F in 2009.