

1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19	
Oct 2018	Week Day	TEMPERATURE °F				TEMPERATURE °F				SKY		PRECIPITATION			FROZ. PRECIP.		1st PERIOD																				
		MAX.	Time	MIN.	Time	RANGE	MEAN	CHANGE	SOIL	AM	PM	Liquid	1 Hr.	5 Min.	NEW	GROUND	START	END																			
Oct-01	Mon	83.3	14:16	61.7	2:05	21.6	72.5	3.7	73	1	1																										
Oct-02	Tue	85.2	14:28	63.3	7:33	21.9	74.3	1.8	73	1	2																										
Oct-03	Wed	89.0	13:37	65.3	7:19	23.7	77.2	2.9	74	0	1																										
Oct-04	Thu	91.2	14:07	65.8	6:16	25.4	78.5	1.3	74	1	0																										
Oct-05	Fri	75.1	9:54	66.2	23:09	8.9	70.7	-7.8	75	2	2																										
Oct-06	Sat	80.5	15:39	65.1	3:08	15.4	72.8	2.1	74	2	2																										
Oct-07	Sun	89.2	14:48	69.0	7:20	20.2	79.1	6.3	74	0	1																										
Oct-08	Mon	85.9	13:53	71.0	3:04	14.9	78.5	-0.6	75	2	2																										
Oct-09	Tue	84.2	15:12	70.8	1:55	13.4	77.5	-1.0	75	2	2	0.01	0.01	T			1350	1405																			
Oct-10	Wed	82.5	15:30	69.8	1:40	12.7	76.2	-1.3	75	2	2	0.01	0.01	T			1230	1335																			
Oct-11	Thu	83.2	13:02	67.8	20:23	15.4	75.5	-0.7	75	2	2	4.03	2.17	0.28			0220	0500																			
Oct-12	Fri	69.2	14:18	51.2	23:58	18.0	60.2	-15.3	74	0	0																										
Oct-13	Sat	67.4	13:44	45.3	23:57	22.1	56.4	-3.9	71	2	1	T	T	T			0355	0400																			
Oct-14	Sun	62.3	14:52	45.3	0:01	17.0	53.8	-2.6	70	2	2	0.01	0.01	T			1105	1125																			
Oct-15	Mon	79.8	13:53	57.9	8:03	21.9	68.9	15.1	69	2	2	T	T	T			0405	0425																			
Oct-16	Tue	72.1	0:58	57.0	23:33	15.1	64.6	-4.3	70	2	2	0.02	0.02	0.01			1800	1805																			
Oct-17	Wed	71.8	14:20	49.0	23:26	22.8	60.4	-4.2	69	2	0	0.14	0.11	0.01			0001	0415																			
Oct-18	Thu	61.5	14:20	41.7	23:45	19.8	51.6	-8.8	68	0	0																										
Oct-19	Fri	66.6	14:35	37.0	7:27	29.6	51.8	0.2	66	0	0																										
Oct-20	Sat	66.8	15:21	49.8	23:59	17.0	58.3	6.5	65	2	2	0.14	0.05	0.01			0105	1000																			
Oct-21	Sun	58.5	13:32	36.6	23:55	21.9	47.6	-10.8	64	0	0	T	T	T			0032	0038																			
Oct-22	Mon	59.1	15:33	31.1	6:41	28.0	45.1	-2.5	63	0	0																										
Oct-23	Tue	72.0	15:03	41.4	6:27	30.6	56.7	11.6	61	0	0																										
Oct-24	Wed	60.6	13:19	37.9	23:59	22.7	49.3	-7.5	61	0	0																										
Oct-25	Thu	55.2	15:34	33.1	7:44	22.1	44.2	-5.1	60	0	2																										
Oct-26	Fri	52.7	23:55	40.6	5:12	12.1	46.7	2.5	59	2	2	1.69	0.47	0.07			1035	2400																			
Oct-27	Sat	60.2	15:55	48.9	8:14	11.3	54.6	7.9	58	2	2	0.36	0.11	0.01			0001	1135																			
Oct-28	Sun	63.7	13:24	44.2	7:27	19.5	54.0	-0.6	59	2	0	T	T	T			1950	2005																			
Oct-29	Mon	66.5	13:55	41.6	23:13	24.9	54.1	0.1	59	0	1																										
Oct-30	Tue	64.9	14:20	36.7	7:14	28.2	50.8	-3.2	59	0	0																										
Oct-31	Wed	71.8	13:46	45.1	3:26	26.7	58.5	7.7	59	0	1																										
TOTAL		2232		1607		624.8	1919.6	-10.4	2101	33	34	6.41	2.96	0.39	0	0	Col.26-27																				
NUMBER		31	31	31	31	31	31	31	31	31	31	9	9	6	0	0	DAILY AVE RH																				
AVERAGE		72.00	14:09	51.85	11:47	20.15	61.92		67.77	1.06	1.10	Ave. Tot.	Ave. Max	Ave. Max	Ave. Tot.	Ave. Days	79.0	Percent																			
NORMAL		70.71		49.50		21.21	60.10		64.73	0.96	1.01	3.74	0.54	0.14	0.0	0.0	74.0	Percent																			
DEPARTURES		1.29		2.35		-1.06	1.82		3.04	0.10	0.09	2.67	2.42	0.25	0.0	0.0	5.0	Percent																			
Max. Temps. >= 70°F		91.2	Ave.HighMax	71.0	Ave.HighMin	30.6	79.1	15.1	75.0	Whole Day		4.03	2.17	0.28	0.0	0.0	Precip	24 Hr.																			
2018 16		Oct-04	85.6	Oct-08	66.4	Oct-23	Oct-07	Oct-15	Oct-05	Ave. 1.08		Oct-11	Oct-11	Oct-11			Amount Date Date	4.03 Oct-11																			
Ave. 17.8			Dep.		Dep.				Oct-08	Normal 0.99																											
Departure -1.8			5.6		4.6				Oct-09	Depart. 0.10																											
Min. Temps. <= 32°F		52.7	Ave.LowMax	31.1	Ave.LowMin	8.9	44.2	-15.3	58.0	SKY		AM	PM	>= 0.10 INCHES		>= 1.00 INCHES			>= 2.00 INCHES																		
2018 1		Oct-26	53.6	Oct-22	33.4	Oct-05	Oct-25	Oct-12	Oct-27	CLEAR		13	11	5	DAYS	2	DAYS	1	DAYS																		
Ave. 0.8			Dep.		Dep.					PT. CLO.		3	6	HOTTEST	79.1	Highest	Lowest	COOLEST	44.15																		
Departure 0.2			-0.9		-2.2					CLOUDY		15	14	DAY	10-07	Mean	Mean	DAY	10-25																		
Days Max. <=32 °F		0		MAX.	>=90	>=85	>=80	>=75	>=70	>=65	>=60	>=55	>=50	>=45	>=40	>=35	>=32	>=30																			
Days Max. >=90°F		1		DAYS	1	5	11	12	16	22	27	30	31	31	31	31	31	31																			

	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38			
Oct 2018	2nd PERIOD		WIND			REL. HUMIDITY		BAROMETRIC PRESSURE								K					
	START	END	RUN	MAX.	TIME	MAX.	MIN.	MAX.	MIN.	AVE.	CHANGE	GLAZE	SLEET	SNOW	FOG		DEW	FROST			
Oct-01			52.1	14	12:43	97	64	30.35	30.22	30.29	-0.03						4				
Oct-02			85.2	19	11:58	98	63	30.25	30.07	30.16	-0.13						4				
Oct-03			29.3	11	0:15	98	58	30.09	30.02	30.06	-0.11						3				
Oct-04			30.1	11	12:25	99	56	30.06	29.96	30.01	-0.05						5				
Oct-05			67.6	14	11:47	97	81	30.16	29.96	30.06	0.05						4				
Oct-06			25.4	9	20:53	96	77	30.20	30.13	30.17	0.10						1				
Oct-07			34.4	10	12:29	98	64	30.24	30.17	30.21	0.04						4				
Oct-08			48.5	12	17:18	100	69	30.33	30.23	30.28	0.08				4		4				
Oct-09	1655	1715	39.2	11	16:11	100	71	30.33	30.18	30.26	-0.03				3		5				
Oct-10			48.5	14	11:30	98	76	30.19	29.88	30.04	-0.22						5				
Oct-11	1400	1500	146.0	38	19:22	97	82	29.88	29.36	29.62	-0.42					1	P				
Oct-12			51.5	28	0:21	97	54	29.84	29.46	29.65	0.03						P				
Oct-13	0558	0615	57.7	15	15:53	94	55	30.17	29.80	29.99	0.34						P				
Oct-14	1200	1235	30.8	9	9:31	96	75	30.28	30.17	30.23	0.24						3				
Oct-15	0455	0520	91.7	22	14:02	95	70	30.21	30.01	30.11	-0.12						3				
Oct-16	2203	2400	71.4	16	3:56	90	67	30.23	30.01	30.12	0.01						N				
Oct-17			33.5	15	13:58	98	40	30.22	30.03	30.13	0.00						P				
Oct-18			61.6	18	13:50	94	44	30.46	30.22	30.34	0.22						3				
Oct-19			76.2	18	15:09	99	45	30.40	29.98	30.19	-0.15						5	1			
Oct-20	1055	1100	85.6	18	1:48	96	72	29.98	29.69	29.84	-0.35						P				
Oct-21			79.9	28	11:13	92	45	30.30	29.75	30.03	0.19						N				
Oct-22			63.0	15	12:06	98	50	30.38	30.18	30.28	0.26							3			
Oct-23			74.3	17	15:12	95	43	30.18	29.99	30.09	-0.20						3				
Oct-24			66.0	17	11:02	94	45	30.27	30.11	30.19	0.10						4				
Oct-25			26.6	13	10:03	98	53	30.28	30.10	30.19	0.00						4	2			
Oct-26			53.1	20	18:17	98	92	30.13	29.67	29.90	-0.29						4				
Oct-27	2035	2130	62.7	18	1:13	98	84	29.74	29.53	29.64	-0.27						P				
Oct-28			84.0	18	15:15	96	55	29.92	29.73	29.83	0.19						3				
Oct-29			50.6	17	11:57	99	47	30.12	29.78	29.95	0.13						4				
Oct-30			25.6	13	12:42	99	47	30.21	30.11	30.16	0.21						4				
Oct-31			105.8	20	11:56	94	55	30.16	29.99	30.08	-0.09						3				
TOTAL			Column 23			1857.9	518		2998	1899	935.56	928.49	932.03	TOTAL	0	0	0	2	1	22	3
NUMBER			Mar. Wind Run			31	31		31	31	31	31	31	NORMAL	0.0	0.1	0.0	2.3	1.2	18.9	2.1
AVERAGE			Total	1857.9		59.9	16.71	11:48	96.7	61.3	30.18	29.95	30.07	DEPART.	0.0	-0.1	0.0	-0.3	-0.2	3.1	0.9
NORMAL			Miles	1576.5		51.0	17.0		95.4	52.5	30.14	29.96	30.05	Rating ► Intensity	0	0	0	7	1	82	6
Departures			Miles	281.4		8.9	-0.3		1.3	-8.8	0.04	-0.01	0.01		GLAZE	SLEET	SNOW	FOG	K	Dew	Frost
MAXIMUM			Dates		146.0	38	North		100	92	30.46	30.23	30.34	0.34	5. Very Heavy 4. Heavy-Unusual 3. Moderate - Ave. 2. Light - >= Ave. 1. Very Light - Slight - Trace M - Event with intensity missing						
DATES			1		Oct-11	Oct-11			Oct-08	Oct-26	Oct-18	Oct-08	Oct-18	Oct-13							
			2																		
			3																		
Min. Temps. >= 70°F							Ave. Max.														
2018			3						90	40	29.74	29.36	29.62	-0.42							
Ave.			0.2						Oct-16	Oct-17	Oct-27	Oct-11	Oct-11	Oct-11							
Departure			2.8																		
Days Min. <=32 °F			1			MIN.	<=75	<=70	<=65	<=60	<=55	<=50	<=45	<=40	<=35	<=32	<=30	<=25			
Days Min >=70°F			3			DAYS	31	29	24	20	18	17	14	6	2	1	0	0			

PAGE #3

West Henrico Co. - Glen Allen Weather Center 37.6554° N. 77.5692° W. - Koontz

39	40
Oct 2018	REMARKS FOR THE MONTH October - 2018
Oct-01	CLOUDS CLEARED AT 0945 AND STAYED CLEAR TO 1400 AND BECAME PC THE REST OF THE DAY
Oct-02	HIGH VERY THIN AM CIRRUS WITH ABOUT 80-90% COVERAGE BUT RADIATION THROUGH CLOUDS OF CIRROSTRATUS AFTER 1700 - MOST OF SKY COVERED WITH CLOUDINESS
Oct-03	CLOUDS STARTED TO COME IN AT 1015 AS MAINLY CIRRUS THEN CUMULUS BY 1300 & PC TO MOSTLY CLOUDY IN PM EST. 50-60%
Oct-04	EXTREMELY WARM FOR OCT. - MUCH SOLAR RADIATION THROUGH CIRRUS IN AM & PM BECAME CLEAR UNTIL 1700-PM EST. 30% CLOUDY
Oct-05	CLOUDY ALL DAY EXCEPT EARLY MORNING & FIRST COOL DAY SINCE SEPT. 23 WHEN IT WAS 67.4°F FOR THE MAX.
Oct-06	ONLY A FEW BREAKS IN CLOUDS AROUND 1315 & 1330 & 1515-VERY WARM FOR OCT.
Oct-07	CUMULUS CAME IN AT 1100 & PM WAS PC WITH CUMULUS - EXTREMELY HOT FOR OCT. - MAX. DEW POINT OF 76°F AT 1250
Oct-08	HEAVY FOG AT 0715 THAT CLEARED BY 0940 & CLOUDS CLEARED BY 1100 THEN PC TO 1345 & THEN CLOUDY AGAIN
Oct-09	FOG CLEARED AROUND 0800 BUT ONLY OCCASIONAL SUN-HIGH DEW POINT WAS 73.7°F-VERY HUMID-AS THIS SUMMER HAS BEEN AND SEEMS AN ENDLESS SUMMER-OCT. NOW RUNNING
Oct-10	IT WAS CLOUDY MOST OF DAY EXCEPT 1100-1145 & VERY HUMID-HURRICANE MICHAEL CAME ASHORE JUST EAST OF PANAMA CITY AROUND 1330 WITH WINDS 155MPH & 3RD STRONGEST
Oct-11	LOW MIN. IN MORNING WAS A VERY HIGH 74.4°F AT 0516-THE 67.8°F MIN. WAS REC. AT 2023-RAIN PD. 0220-0500 ONLY 0.01 INCHES, PD. 1400-1500 WAS 0.01 INS.-HEAVY RAIN STARTED AT
Oct-12	COOLEST SINCE MAY 9TH WHEN IT WAS 48.8°F-BEAUTIFUL FALL LIKE DAY WITH VERY DEEP BLUE SKY
Oct-13	CLEAR FROM 0930-NOON-THEN CUMULUS THAT BECAME THICKER DURING AFTERNOON UNTIL 1545 THEN CLEAR AGAIN-PM EST. TO BE 55-65% CLOUDY
Oct-14	LOWEST MAX. TEMP. TODAY SINCE APRIL 11 WHEN MAX. WAS 60.7°F-MIN. DEW POINT WAS A COOL 43.1°F AT 0346
Oct-15	CLOUDY UNTIL 1100 THEN BROKEN OVERCAST TO PC SKY UNTIL 1400 THEN CLOUDY TO SUNSET - MUCH WARMER BUT COLD FRONT IS APPROACHING
Oct-16	FALL LIKE DAY AND COOLER WITH ONLY A LITTLE SUN AND BREEZY WINDS FROM NORTH & BECAME NE
Oct-17	CLEARING SLOWER TO SOUTH & OCCURRED ABOUT 1030 & PM BECAME VERY CLEAR AFTER 1330-BEAUTIFUL FALL PM
Oct-18	LOWEST MIN. TEMP. SINCE MAY 1 WHEN IT WAS 41.2°F-A VERY SUNNY, BREEZY AND COOL DAY-PAINTED THE DECK
Oct-19	VERY CLEAR DAY EXCEPT SOME LONELY CIRRUS IN AFTERNOON-DEW WAS SO HEAVY IT GAVE 0.01 INCH IN RAIN GAUGE-COLDEST SINCE APRIL 30 WHEN IT WAS 35.3°F
Oct-20	SPRINKLES MOST OF AM-STARTED TO CLEAR AT 1500-PC BY 1615 THEN CLEAR AGAIN BY 1700
Oct-21	VERY CLEAR AND BREEZY FALL DAY WITH LOW REL. HUMIDITY AND ONLY A FEW CUMULUS CLOUDS - LOWEST MAX. TEMP. SINCE APRIL 24 WHEN IT WAS 58.1°F
Oct-22	VERY CLEAR DAY - WIND SHIFTED S TO SW GIVING A GOOD WARM-UP TO 59°F-COLDEST AM SINCE APRIL 8 WHEN IT WAS 29.9°F FOR MIN.
Oct-23	BEAUTIFUL FALL DAY-LOW DEW POINT OF 39.5°F AT 0627 BUT HIGH TEMP. WAS 72°F WITH A VERY DEEP BLUE SKY AND NO CLOUDS SEEN
Oct-24	A LITTLE BELOW AVE. TEMP. AND VERY FEW CLOUDS-LOW REL. HUMIDITY AND BREEZY THAT MADE IT FEEL EVEN COOLER
Oct-25	ALSO FROZEN DEW THIS MORNING-PRETTY FULL HUNTER'S MOON LAST NIGHT-AM EST. 20-25% CLOUDY WITH CIRRUS-PM CIRRUS AND CIRROSTRATUS GIVING A CLOUDY PM
Oct-26	THUNDER TONIGHT AT 2011 BUT HEARD ONLY ONCE-CHILLY DAY FOR OCT.-NEW REC. LOW MAX. FOR 26TH
Oct-27	DRIZZLE IN AM UNTIL 1135 AND BROKEN SKY BY 1530-1630 THEN CLOUDY AGAIN
Oct-28	STARTED TO CLEAR AT 1045 BUT STILL PC AT NOON-PM CLEAR EXCEPT FOR A FEW FAIR WEATHER CUMULUS
Oct-29	CLOUDS CAME IN AS STRATOCUMULUS AROUND NOON-PM CLOUDY TO 1645 THEN CLEAR TO SUNSET-PM EST. 60-70% CLOUDY
Oct-30	LESS BREEZE THAN YESTEDAY BUT MORE SUN MAKING IT FEEL A LITTLE WARMER
Oct-31	AM WAS CLEAR WITH ONLY A FEW SCATTERED CUMULUS THAT BECAME THICKER IN PM BUT STILL A GOOD BIT OF SOLAR RADIATION THROUGH CLOUDS
DATE	EXTENSION OF LENGTHY DAILY REMARKS
Oct-09	14°F ABOVE AVERAGE SO FAR
Oct-10	HURRICANE TO COME ASHORE IN US HISTORY-ONLY LIGHT SPRINKLES DURING RAIN PD. AND LESS THAN 0.01 INCHES
Oct-11	1550-VERY HEAVY RAIN OCCURRED FROM 1855-1935 SAW ABOUT 6-8 LIGHTNING FLASHES BUT HEARD THUNDER ONLY TWICE-VERY DISTANT LIGHTNING NOT RATED AS THIS WAS FROM TROPICAL STORM NOT A TYPICAL TS
<div>The daily records for the month are listed on page # 4 and not found in the remarks.</div> <div>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</div> <div>www.glenallenweather.com/upload/glenallencclimate/log/2018/Rules.pdf</div>	

DAILY RECORDS FOR THE MONTH

The Glen Allen Station had 17 Records or Record Ties for October 2018

[illegible]

OCTOBER TEMPERATURE GRAPH

