

GLEN ALLEN OBSERVATIONS FOR 2013

West Henrico Co. - Glen Allen Weather Center 37.65537° N. 77.56929° W. - Koontz																	
1	TEMPERATURE AVERAGES AND DEPARTURES									TEMPS MEAN (High & Low)				MAX. TEMPS (High & Low)			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
2013 PAGE 1 MONTH	MAX. AVE. Deg F	* NORMAL AVE. MAX. ° F	Departure OF AVE. MAX. ° F	MIN. AVE. Deg F	* NORMAL AVE. MIN. ° F	Departure OF AVE. MIN. ° F	MEAN AVE. Deg F	* NORMAL AVE. MEAN ° F	Departure OF AVE. MEAN ° F	HIGH MEAN Deg F	Date of Mean	LOW MEAN Deg F	Date of Mean	HIGH MAX. Deg F	Date of Max.	LOW MAX. Deg F	Date of Min.
JAN.	50.77	46.54	4.2	31.81	26.90	4.9	41.29	36.72	4.6	66.0	30	19.0	25	75	29	25	25
FEB.	48.93	52.73	-3.8	29.39	30.40	-1.0	39.16	41.56	-2.4	50.5	12	26.5	02	64	15	35	17
MAR.	52.71	61.84	-9.1	31.23	40.12	-8.9	41.97	50.98	-9.0	58.5	12	34.5	04	71	12	36	18
APR.	70.47	71.17	-0.7	47.97	47.48	0.5	59.22	59.32	-0.1	78.0	10	39.5	04	90	10	51	04
MAY	76.61	79.25	-2.6	54.84	58.97	-4.1	65.73	69.11	-3.4	78.5	29	51.0	13	89	30	63	13
JUN.	85.00	87.05	-2.1	65.80	65.82	0.0	75.40	76.63	-1.2	82.5	25	69.0	04	93	26	73	07
JUL.	87.84	91.16	-3.3	70.52	69.90	0.6	79.18	80.53	-1.3	85.0	19	71.5	25	95	17	77	12
AUG.	83.42	88.17	-4.8	65.74	68.44	-2.7	74.58	78.31	-3.7	84.0	09	66.5	16	92	09	68	18
SEP.	79.60	81.30	-1.7	57.90	61.57	-3.7	68.75	71.43	-2.7	82.5	11	58.5	18	93	11	69	23
OCT.	69.87	69.81	0.1	50.45	48.47	2.0	60.16	59.14	1.0	76.5	05	43.0	26	90	05	57	09
NOV.	57.33	60.35	-3.0	35.37	38.53	-3.2	46.35	49.44	-3.1	68.0	01	28.0	25	73	02	38	24
DEC.	53.29	50.93	2.4	33.35	31.22	2.1	43.32	41.07	2.2	67.0	22	27.0	25	73	22	33	08
TOTAL NUM. AVE. MAX. MIN.	815.84 12 87.84 48.93	840.28 12 91.16 46.54	-24.4 12 -2.0 4.2	574.36 12 70.52 29.39	587.82 12 69.90 26.90	-13.46 12 -1.1 4.9	695.10 12 57.93 39.16	714.24 12 59.52 36.72	-19.14 12 -1.6 4.6	877.0 12 85.0 50.5	Jul-19	534.0 12 71.5 19.0	Jan-25	998 12 95 64	Jul-17	625 12 77 25	Jan-25
* 4 YR. Ave. for Jan-Jun 5 YR. Ave. for Jul - Dec										Occurred on more than one date							
MAXIMUM		MINIMUM			AVERAGE OR MEAN			DEPARTURES		TOTALS				DATES			

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West Henrico Co. - Glen Allen Weather Center 37.65537° N. 77.56929° W. - Koontz																
2	MIN. TEMPS (High & Low)				TEMPERATURE RANGES					TEMPERATURE (SELECTED)				PRECIP. (DEPARTURES)		
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
2013 PAGE 2 MONTH	HIGH	LOW		TEMP.	TEMP.	TEMP.	# DAYS	# DAYS	# DAYS	# DAYS	PRECIP	2.5		PRECIP.		
	MIN.	MIN.		MAX	MIN.	AVE.	>=90	<=32	>=70	<=32	FOR	YEARS		FOR		
	Deg	Deg		RANGE	RANGE	RANGE	MAX.	MAX.	MIN.	MIN.	MONTH	AVE.		MONTH		
	F	F		Deg	Deg	Deg	Deg	Deg	Deg	Deg	TOTAL	INCHES		DEP.		
	F	F		F	F	F	F	F	F	F	INCHES	INCHES		INCHES		
JAN.	61	30	11	23	38	31	4	15	19.0	0	2	0	16	5.47	2.57	2.90
FEB.	40	05	16	02	33	15	6	22	19.5	0	0	0	18	1.85	2.37	-0.52
MAR.	47	31	20	04	35	10	3	18	21.5	0	0	0	21	5.54	4.14	1.40
APR.	66	10	26	03	36	07	9	30	22.5	1	0	0	3	3.20	2.62	0.58
MAY	70	22	36	14	33	14	8	18	21.8	0	0	1	0	4.85	3.98	0.87
JUN.	73	25	55	21	29	21	6	07	19.2	7	0	8	0	6.52	2.94	3.58
JUL.	77	20	59	26	25	26	9	02	17.3	14	0	22	0	7.03	3.80	3.24
AUG.	76	09	56	16	30	26	3	18	17.7	4	0	10	0	6.20	4.83	1.38
SEP.	72	02	44	18	31	15	12	09	21.7	4	0	3	0	1.52	3.92	-2.40
OCT.	65	06	28	26	31	28	3	09	19.4	1	0	0	2	2.88	3.90	-1.02
NOV.	65	01	17	25	36	14	6	01	22.0	0	0	0	12	3.68	4.14	-0.46
DEC.	61	22	18	25	36	19	2	08	19.9	0	0	0	19	5.80	4.58	1.22
TOTAL	773		386		393		71		241	31	2	44	91	54.54	43.78	10.76
NUM.	12		12		12		12		12	12	12	12	12	12	12	12
AVE.					32.8		5.9		20.1							
MAX.	77	Jul-20	59	Jan-23	38	Jan-31	12	Dec-08	22.5	14	2	22	21	7.03	4.83	3.58
MIN.	40		11		25		2		17.3	0	0	0	2	1.52	2.37	-2.40
* 4 YR. Ave. for Jan-Jun 5 YR. Ave. for Jul - Dec																
Occurred on more than one date																
MAXIMUM		MINIMUM		AVERAGE OR MEAN			DEPARTURES			TOTALS			DATES			

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3	PRECIPITATION EXTREMES					PRECIPITATION DAYS				PRECIPITATION INTENSITY				FROZEN PRECIPITATION						
36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
2013	PRECIP.	PRECIP.	PRECIP.		PRECIPITATION				PRECIP.	PRECIP.	FROZEN	Max.	Number	ON GROUND		DAYS with				
PAGE	MAX.	IN	MAX.	1 st Day of Max.	2 nd Day of Max.	# DAYS	Cal. Day	Cal. Day	Cal. Day	MAX	Day of Max.	MAX	Day of Max.	TOTAL	FROZEN	Max. Snow Day	DAYS	ON GROUND	DAYS with	
3	IN	IN	24 HRS.	1 st Day of Max.	2 nd Day of Max.	>Trace	>=0.10	>= 1.00	>= 2.00	IN 1 HR.	Day of Max.	IN 5 MIN.	Day of Max.	FOR	FOR	Day	>Trace	MAX.	Snowfall	
MONTH	Cal. Day	Cal. Day	24 HRS.	1 st Day of Max.	2 nd Day of Max.	DURING	INCHES	INCHES	INCHES	MT-to-MT	Day of Max.	MT-to-MT	Day of Max.	MONTH	Day	Max. Snow Day	New	for Cal.	Day	ON YARD
MONTH	INCHES	INCHES	INCHES	MONTH	DAYS	DAYS	DAYS	DAYS	MONTH	DAYS	DAYS	MONTH	DAYS	INCHES	INCHES	INCHES	Snow	INCHES	Day of Max.	DAYS
JAN.	1.68	17	1.71	Jan-16	Jan-17	14	7	2	0	0.58	31	0.22	31	4.4	3.0	17	4	1.2	18	2
FEB.	0.68	08	0.74	Feb-07	Feb-08	11	5	0	0	0.18	08	0.04	08	0.2	0.1	02	2	0.0		0
MAR.	2.24	06	2.62	Mar-06	Mar-07	11	9	1	1	0.47	06	0.10	06	9.6	3.9	24	6	3.2	24	4
APR.	0.81	19	0.95	Apr-04	Apr-05	9	5	0	0	0.44	19	0.19	19	T	T	04	0	0.0		0
MAY	2.39	07	2.43	May-06	May-07	12	8	1	1	1.37	07	0.33	07	0.0	0.0		0	0.0		0
JUN.	1.79	07	1.81	Jun-06	Jun-07	16	10	1	0	0.75	09	0.46	09	0.0	0.0		0	0.0		0
JUL.	2.42	03	2.42	Jul-03	---	15	10	2	1	1.05	03	0.50	03	0.0	0.0		0	0.0		0
AUG.	1.48	10	1.52	Aug-10	Aug-11	14	9	2	0	1.46	10	0.67	10	0.0	0.0		0	0.0		0
SEP.	0.77	21	0.82	Sep-21	Sep-22	5	2	0	0	0.65	12	0.20	21	0.0	0.0		0	0.0		0
OCT.	0.98	10	1.53	Oct-09	Oct-10	10	5	0	0	0.67	07	0.15	07	0.0	0.0		0	0.0		0
NOV.	1.50	27	2.63	Nov-26	Nov-27	8	4	2	0	0.53	27	0.09	27	T	T	12	0	0.0		0
DEC.	1.43	29	1.43	Dec-29	---	12	9	1	0	0.40	17	0.05	22	0.1	0.1	08	1	0.1	08	1
TOTAL	18.17		20.61			137	83	12	3	8.55		3.00		14.3			13	4.5		7
NUM.	12		12			12	12	12	12	12		12								
AVE.	1.51		1.72			11.4	6.9	1.0	0.3	0.71	Aug-10	0.25	Aug-10							
MAX.	2.42	Jul-03	2.63			16	10	2	1	1.46	Aug-10	0.67	Aug-10	9.6	3.9	Mar-24	6	3.2	Mar-24	4
MIN.	0.68		0.74			5	2	0	0	0.18		0.04		0.0	0.0		0	0.0		0
* 4 YR. Ave. for Jan-Jun											5 YR. Ave. for Jul - Dec					Occurred on more than one date				
MAXIMUM			MINIMUM			AVERAGE OR MEAN				DEPARTURES				TOTALS			DATES			

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West Henrico Co. - Glen Allen Weather Center 37.65537° N. 77.56929° W. - Koontz														
4	SKY CONDITIONS - SUNRISE TO NOON					SKY CONDITIONS - NOON TO SUNSET						MAX. MIN. REL. HUM.		
57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
2013 PAGE 4 MONTH	SKY AM CLEAR MONTH 0-33%	SKY AM PT. CLO. MONTH 34-66%	SKY AM CLOUDY MONTH 67-100%	SKY AM AVE. CLOUD COVER	SKY DAYS OBS. MADE DAYS	SKY PM CLEAR MONTH 0-33%	SKY PM PT. CLO. MONTH 34-66%	SKY PM CLOUDY MONTH 67-100%	SKY PM AVE. CLOUD COVER	SKY DAYS OBS. MADE DAYS	SKY DAYS AVE 0=CLEAR 2=CLOUDY	REL. HUM. HIGH MAX. %	REL. HUM. LOW MIN. %	Low RH Day
JAN.	12	4	15	1.10	31	11	5	15	1.13	31	1.11	100	22	22
FEB.	9	4	15	1.21	28	11	2	15	1.14	28	1.18	100	22	18
MAR.	12	3	16	1.13	31	11	5	15	1.13	31	1.13	100	18	10
APR.	12	6	12	1.00	30	11	9	10	0.97	30	0.98	100	19	02
MAY	8	9	14	1.19	31	10	7	14	1.13	31	1.16	100	26	25
JUN.	9	9	12	1.10	30	6	11	13	1.23	30	1.17	100	30	04
JUL.	8	7	16	1.26	31	6	11	14	1.26	31	1.26	99	46	26
AUG.	7	7	17	1.32	31	7	10	14	1.23	31	1.27	100	41	04
SEP.	18	8	4	0.53	30	19	5	6	0.57	30	0.55	100	35	05
OCT.	10	3	18	1.26	31	11	4	16	1.16	31	1.21	100	30	25
NOV.	12	5	13	1.03	30	14	1	15	1.03	30	1.03	100	17	14
DEC.	12	3	16	1.13	31	11	1	19	1.26	31	1.19	100	24	19
TOTAL NUM. AVE. MAX. MIN.	129 12 10.8 18 7	68 12 5.7 9 3	168 12 14.0 18 4	13.27 12 1.11 1.32 0.53	365	128 12 10.7 19 6	71 12 5.9 11 1	166 12 13.8 19 6	13.23 12 1.10 1.26 0.57	365	13.25 12 1.10 1.27 0.55	1199 12 99.9 100 99	330 12 27.5 46 17	Nov-14
* 4 YR. Ave. for Jan-Jun					5 YR. Ave. for Jul - Dec					Occurred on more than one date				
MAXIMUM		MINIMUM		AVERAGE OR MEAN		DEPARTURES		TOTALS		DATES				

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5	AVE. REL. HUMIDITY			WIND RUN				WIND SPEED			MAX. MIN. BAROMETER			
72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
2013 PAGE 5 MONTH	REL. HUM. AVE MAX %	REL. HUM. AVE. MIN %	REL. HUM. AVE. FOR MONTH %	WIND RUN MONTH TOTAL MILES	WIND RUN DAILY AVE. MILES	WIND RUN DAILY MAX. MILES	Day of Max.	WIND AVE. DAILY GUST MPH	WIND MAX. DAILY GUST MPH	Day of Max.	BARO. MAX. FOR MONTH INCHES	Day of Max.	BARO. MIN. FOR MONTH INCHES	Day of Min.
JAN.	89.1	51.3	70.2	2073.2	66.9	225.6	30	18.2	43	30	30.60	27	29.22	31
FEB.	87.6	41.6	64.6	1847.0	66.0	136.1	11	18.7	32	11	30.49	10	29.53	27
MAR.	86.2	41.5	63.9	2137.9	69.0	188.3	06	20.5	37	06	30.32	09	29.43	06
APR.	87.4	37.3	62.3	2521.1	85.3	177.8	19	20.6	33	19	30.55	21	29.56	12
MAY	92.7	46.1	69.4	2164.6	69.8	152.6	15	18.9	28	15	30.40	02	29.74	11
JUN.	95.6	52.8	74.2	1961.0	65.4	144.5	02	18.6	31	28	30.29	21	29.51	13
JUL.	95.6	56.2	75.9	1679.4	54.2	125.6	20	15.5	23	16	30.34	14	29.67	23
AUG.	96.3	57.7	77.0	1374.4	44.3	114.5	09	16.0	37	10	30.41	25	29.75	13
SEP.	96.3	49.5	72.9	1366.2	45.5	80.4	11	15.2	21	13	30.39	17	29.72	13
OCT.	96.8	57.2	77.0	1691.1	54.6	182.4	10	15.7	29	07	30.36	29	29.67	23
NOV.	88.2	42.2	65.2	1909.1	63.6	167.0	01	18.7	34	12	30.69	29	29.50	27
DEC.	91.8	50.0	70.9	1882.6	62.8	177.2	21	18.2	30	21	30.57	25	29.59	29
TOTAL NUM. AVE. MAX. MIN.	1104 12 92.0 96.8 86.2	583 12 48.6 57.7 37.3	843 12 70.3 77.0 62.3	22608 12 1884.0 2521.1 1366.2	747 12 62.3 85.3 44.3	1872 12 156.0 225.6 80.4	Jan-30	215 12 17.9 20.6 15.2	378 12 32 43 21	Jan-30	365.41 12 30.45 30.69 30.29	Nov-29	354.89 12 29.57 29.75 29.22	Jan-31
* 4 YR. Ave. for Jan-Jun				5 YR. Ave. for Jul - Dec				Occurred on more than one date						
MAXIMUM		MINIMUM		AVERAGE OR MEAN		DEPARTURES		TOTALS			DATES			

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West Henrico Co. - Glen Allen Weather Center 37.65537° N. 77.56929° W. - Koontz													
6	AVERAGE BAROMETER					WEATHER CONDITION DAYS							
87	88	89	90	91	92	93	94	95	96	97	98	99	100
2013 PAGE 6 MONTH	BARO. MAX. AVE. MONTH INCHES	BARO. MIN. AVE. MONTH INCHES	BARO. MEAN BAR. MONTH INCHES	* NORMAL BAR. MONTH INCHES	BARO. Departure OF AVE. MEAN INCHES	GLAZE OBS. Num. of DAYS	SLEET OBS. Num. of DAYS	SNOW OBS. Num. of DAYS	FOG OBS. Num. of DAYS	THUNDER OBS. Num. of DAYS	DEW OBS. Num. of DAYS	FROST OBS. Num. of DAYS	HAIL OBS. Num. of DAYS
	JAN.	30.29	30.03	30.16	30.03	0.13	1	1	4	2	1	3	11
FEB.	30.17	29.87	30.02	30.02	0.00	0	1	3	3	0	1	14	0
MAR.	30.08	29.86	29.97	30.05	-0.08	0	4	6	1	2	3	13	0
APR.	30.20	29.99	30.09	29.95	0.14	0	1	0	0	2	12	4	0
MAY	30.15	30.00	30.07	30.00	0.07	0	0	0	2	5	17	1	1
JUN.	30.03	29.86	29.95	29.92	0.03	0	0	0	0	8	17	0	0
JUL.	30.12	29.99	30.06	29.96	0.10	0	0	0	2	4	15	0	0
AUG.	30.11	29.98	30.05	29.96	0.09	0	0	0	5	6	23	0	0
SEP.	30.11	29.96	30.04	30.04	0.00	0	0	0	1	2	22	0	0
OCT.	30.14	29.98	30.06	30.02	0.04	0	0	0	3	1	18	4	0
NOV.	30.36	30.06	30.21	30.11	0.10	0	1	2	3	0	8	10	0
DEC.	30.25	30.02	30.14	30.08	0.06	2	2	1	3	0	2	12	0
TOTAL NUM.	362.00 12	359.61 12	360.81 12	360.14 12	0.67 12	3 12	10 12	16 12	25 12	31 12	141 12	69 12	1 12
AVE.	30.17	29.97	30.07	30.01	0.06	0.3	0.8	1.3	2.1	2.6	11.8	5.8	0.1
MAX.	30.36	30.06	30.21	30.11	0.14	2	4	6	5	8	23	14	1
MIN.	30.03	29.86	29.95	29.92	-0.08	0	0	0	0	0	1	0	0
* 4 YR. Ave. for Jan-Jun 5 YR. Ave. for Jul - Dec													
MAXIMUM		MINIMUM		AVERAGE OR MEAN		DEPARTURES		TOTALS			DATES		