



NOVEMBER 2013

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

RICHMOND, VA
RICHMOND INTERNATIONAL AIRPORT (KRIC)
 Lat:37° 30'N Long: 77° 19'W Elev (Ground) 164 Feet
 Time Zone : EASTERN WBAN: 13740 ISSN#: 0198-537X



Date 1	Temperature °F						Deg Days BASE 65°		WEATHER 10	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								Date 24
	MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEP FROM NORMAL 5	AVERAGE DEW PT 6	AVERAGE WET BULB 7	HEATING 8	COOLING 9		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			3-SEC		2-MIN			
20	21	22	23	24																				
01	76	67	72*	19	64	67	0	7	RA	0		0.0	T	29.54	29.71	12.2	20	12.7	38	22	29	23	01	
02	77*	54	66	13	48	56	0	1		0		0.0	0.00	29.53	29.75	5.4	30	6.9	24	25	20	25	02	
03	65	42	54	2	33	44	11	0		0		0.0	0.00	29.95	30.19	7.4	35	7.9	30	02	24	33	03	
04	53	36	45	-7	27	37	20	0		0		0.0	0.00	30.35	30.57	6.6	02	7.1	18	01	15	02	04	
05	61	41	51	-1	39	45	14	0		0		0.0	0.00	30.35	30.54	4.2	01	4.8	14	16	10	36	05	
06	72	48	60	8	50	54	5	0		0		0.0	0.00	30.16	30.31	2.7	15	4.8	17	18	15	19	06	
07	70	45	58	7	53	56	7	0	RA BR	0		0.0	0.07	29.80	29.99	4.0	28	8.4	22	30	18	30	07	
08	59	34	47	-4	27	38	18	0		0		0.0	0.00	30.01	30.23	5.3	32	6.3	24	32	17	29	08	
09	60	32	46	-5	28	38	19	0	HZ	0		0.0	0.00	30.11	30.28	6.2	21	6.4	22	21	18	20	09	
10	71	41	56	5	28	44	9	0		0		0.0	0.00	29.90	30.11	6.9	28	10.5	30	16	22	36	10	
11	58	32	45	-5	28	40	20	0		0		0.0	0.00	30.06	30.24	2.8	22	6.4	22	36	18	36	11	
12	54	34	44	-6	23	36	21	0	RA SN	0		T	T	29.99	30.21	10.6	35	13.2	38	34	32*	35	12	
13	47	28	38	-12	16	30	27	0		0		0.0	0.00	30.27	30.47	6.8	33	7.5	30	34	24	33	13	
14	62	25	44	-5	18	33	21	0		0		0.0	0.00	30.17	30.36	7.1	21	7.4			14	22	14	
15	62	31	47	-2	29	40	18	0	RA	0		0.0	0.02	30.08	30.27	5.6	19	6.0	18	21	14	21	15	
16	60	50	55	6			10	0	RA DZ BR HZ	0		0.0	0.27	30.08		1.6	01	2.2	13	09	10	32	16	
17	69	50	60	11			5	0	RA BR	0		0.0	0.06	29.93		4.8	18	5.5	24	18	17	19	17	
18	72	54	63	14	42	54	2	0	RA BR	0		0.0	0.06	29.63	29.83	8.2	27	10.6	28	33	23	32	18	
19	54	40	47	-2	25	38	18	0		0		0.0	0.00	29.93	30.18	10.3	35	10.5	31	36	25	35	19	
20	51	36	44	-4	29	37	21	0		0		0.0	0.00	30.27	30.48	7.0	03	7.9	21	04	16	04	20	
21	59	40	50	3	39	44	15	0		0		0.0	0.00	30.29	30.48	3.8	01	4.2	15	02	12	02	21	
22	73	47	60	13	50	55	5	0	RA	0		0.0	T	30.04	30.20	8.4	22	8.9	25	22	21	23	22	
23	63	41	52	5	31	44	13	0		0		0.0	0.00	29.88	30.09	9.6	35	10.4	33	33	25	34	23	
24	41	25	33	-14	5	24	32	0		0		0.0	0.00	30.19	30.43	12.7	33	13.0	38*	34	31	34	24	
25	38	20*	29*	-17	9	24	36	0		0		0.0	0.00	30.34	30.52	3.1	18	4.1	17	20	13	21	25	
26	64	35	50	4	33	40	15	0	RA BR	0		0.0	1.31	29.98	30.08	5.4	13	8.2	32	12	23	14	26	
27	51	34	43	-3	35	38	22	0	RA SN PL BR	0		T	1.27	29.45	29.70	9.9	33	11.1	30	33	23	33	27	
28	42	27	35	-10	16	28	30	0		0		0.0	0.00	30.14	30.38	3.4	27	4.3	20	30	16	32	28	
29	48	26	37	-8	21	30	28	0		0		0.0	0.00	30.37	30.60	5.2	02	5.4	21	02	16	36	29	
30	45	28	37	-8	25	32	28	0		0		0.0	0.00	30.42	30.59	4.5	02	4.7	13	01	9	01	30	

59.2			38.1			48.7			☼	31.1	40.9	16.3	0.3	< MONTHLY AVERAGES TOTALS >		T	3.06	30.04	30.24	2.5	31	7.6	< MONTHLY AVERAGES				
-2.2			-1.3			-1.7				<----- DEPARTURE FROM NORMAL ----->										-0.18	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3						
DEGREE DAYS													GREATEST 24-HR PRECIPITATION : 2.48 DATE : 26-27				SEA LEVEL PRESSURE				DATE TIME						
MONTHLY						SEASON TO DATE						GREATEST 24-HR SNOWFALL : T DATE : 27+				MAXIMUM : 30.72 29 2310											
TOTAL DEPARTURE						TOTAL DEPARTURE						GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.53 27 0254											
HEATING :		490		47		640		-36		NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 10		PRECIPITATION >= 0.01 INCH: 7									
COOLING :		8		3		1678		130						MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH: 3									
														THUNDERSTORMS : 0		HEAVY FOG : 0		SNOWFALL >= 1.0 INCH : 0									

NOVEMBER 2013
RICHMOND, VA

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
NOVEMBER 2013

WBAN # 13740

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			
01					T			T	T	T	T		01		T	T									01	T	T	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04													04												04	0.00	0.00	
05													05												05	0.00	0.00	
06													06												06	0.00	0.00	
07					0.01	0.01	0.02	0.03					07		T										07	0.07	0.07	
08													08												08	0.00	0.00	
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12												T	12		T									12	T	T		
13													13												13	0.00	0.00	
14													14												14	0.00	0.00	
15													15									T	0.02	15	0.02	0.02		
16		0.09	0.01	0.03	0.03	T	0.01	0.10					16							T	T			16	0.27	0.27		
17					0.05	T							17									T	0.01	0.05	17	0.06	0.06	
18	0.01												18												18	0.06	0.06	
19													19												19	0.00	0.00	
20													20												20	0.00	0.00	
21													21												21	0.00	0.00	
22													22												22	T	T	
23													23									T			23	0.00	0.00	
24													24												24	0.00	0.00	
25													25												25	0.00	0.00	
26					T	T	T	0.01	T	T		0.02	26	0.14	0.11	0.06	0.08	0.07	0.14	0.12	0.10	0.09	0.21	0.06	0.10	26	1.31	1.31
27	0.12	0.05	0.14	0.09	0.13	0.13	0.15	0.09	0.05	0.05	0.11	0.09	27	0.03	0.01	0.02	0.01	T							27	1.27	1.27	
28													28												28	0.00	0.00	
29													29												29	0.00	0.00	
30													30												30	0.00	0.00	

* Indicates sum of Hourly and Daily disagree.

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	0.06	0.08	0.09	0.11	0.14	0.19	0.23	0.26	0.30	0.34	0.41	0.46
Ending Date	27	26	26	27	26	26	26	26	27	27	27	27
Ending Time (Hr/Min)	0227	2357	2357	0241	2150	2150	2150	2201	0617	0642	0710	0735

Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

Date and time are not entered for TRACE amounts.

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

* = Extreme for the month (last occurrence if more than one).

T = Trace precipitation amount.

+ = also occurs on earlier date.

FG+ = Heavy fog, visibility .25 miles or less.

BLANK entries denote missing or unreported data.

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

Ceilometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR-SS), or midnight to midnight (MN-MN).

WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
DESCRIPTOR	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well-Developed Dust/Sand Whirls
MI Shallow	PL Ice Pellets	HZ Haze	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unkown Precipitation		GL Glaze

Intensity (as indicated on pages 4 to 6):
'+' = Heavy '' = Moderate '-' = Light

RICHMOND, VA NOVEMBER 2013

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet.

Clear = 0-2 oktas, Partly Cloudy = 3-6 oktas, Cloudy = 7-8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

NORMALS ARE FOR THE YEARS 1981-2010

ADDITIONAL NOTES & ERRATA:

Station Augmentation-SANDSTON COOP
Lat/Lon:37.54417/-77.27583 Elevation:165
Distance:4 MI Dir:E
Augmented Elements:Temp, Precip, Snow
Equipment:MMTS, SRG, Snowboard

Beginning with the January 2013 LCD, monthly mean temperature calculations have changed to the National Data Stewardship Team standard. Monthly maximum and minimum temperature are not rounded until after monthly mean temperature is calculated. This is the most accurate outcome, but may be slightly different from the mean derived from rounded monthly maximum and minimum.

Date	VISIBILITY (MILES)		
	MINIMUM	MAXIMUM	
01	9.00	10.00	
02	9.00	10.00	
03	10.00	10.00	
04	10.00	10.00	
05	10.00	10.00	
06	9.00	10.00	
07	1.00	10.00	
08	10.00	10.00	
09	5.00	10.00	
10	10.00	10.00	
11	9.00	10.00	
12	9.00	10.00	
13	8.00	10.00	
14	10.00	10.00	
15	10.00	10.00	
16	0.25	10.00	
17	0.12	10.00	
18	6.00	10.00	
19	10.00	10.00	
20	10.00	10.00	
21	10.00	10.00	
22	10.00	10.00	
23	10.00	10.00	
24	10.00	10.00	
25	9.00	10.00	
26	1.75	10.00	
27	2.00	10.00	
28	10.00	10.00	
29	7.00	10.00	
30	10.00	10.00	
AVGS	7.84	10.00	
MINIMUM VISIBILITY (MILES)			
	<= .25	<= 3.0	>= 7.0
	2	5	23

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
NOVEMBER 2013 **KRIC**

WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL						DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0634 NOV 01 SUNSET: 1712					71	62	65	73	20	19	29.63	29.82	01	OVC	003	2.00	BR	61	58	59	90	8	20	29.92	30.10
04	OVC	050	10.00	-RA	72	63	66	73	17	20	29.55	29.74	04	OVC	002	1.00	BR	62	59	60	90	6	20	29.84	30.03
07	OVC	250	10.00		71	63	66	76	16	18	29.53	29.72	07	OVC	004	5.00	-RA BR	62	59	60	90	7	20	29.79	29.98
10	OVC	075	9.00		73	64	67	74	13	22	29.54	29.73	10	OVC	007	10.00		65	61	63	87	8	24	29.76	29.95
13	OVC	038	10.00		71	62	65	73	10	22	29.52	29.70	13	OVC	085	10.00		70	57	62	64	13	27	29.70	29.89
16	BKN	048	10.00		71	65	67	81	10	20	29.50	29.69	16	BKN	095	10.00		66	54	59	65	14	33	29.72	29.91
19	BKN	055	10.00		70	65	67	84	8	19	29.52	29.70	19	SCT	055	10.00		57	48	52	72	9	01	29.81	30.00
22	BKN	180	10.00		69	65	66	87	6	23	29.48	29.67	22	FEW	040	10.00		50	38	44	63	8	33	29.88	30.08
SUNRISE: 0635 NOV 02 SUNSET: 1710					68	63	65	84	7	24	29.47	29.66	01	FEW	040	10.00		47	33	41	59	14	34	29.92	30.12
04	OVC	010	10.00	64	59	61	84	6	30	29.49	29.68	04	CLR	NC	10.00		43	28	37	56	5	27	29.97	30.17	
07	BKN	130	9.00	61	58	59	90	5	30	29.52	29.71	07	CLR	NC	10.00		41	26	35	55	8	25	30.01	30.21	
10	SCT	130	10.00	68	53	59	59	0	00	29.55	29.74	10	FEW	050	10.00		54	25	42	33	9	27	30.04	30.23	
13	SCT	130	10.00	74	42	57	32	9	26	29.52	29.70	13	SCT	070	10.00		56	23	42	28	11	32	30.02	30.21	
16	BKN	190	10.00	73	37	55	27	14	28	29.52	29.70	16	FEW	070	10.00		57	24	43	28	8	34	30.02	30.22	
19	BKN	190	10.00	63	42	52	47	11	01	29.62	29.81	19	CLR	NC	10.00		44	27	37	51	0	00	30.10	30.29	
22	OVC	170	10.00	58	38	48	48	8	36	29.71	29.90	22	CLR	NC	10.00		39	29	35	67	0	00	30.14	30.33	
SUNRISE: 0636 NOV 03 SUNSET: 1709					52	40	46	64	0	00	29.76	29.96	01	CLR	NC	10.00		35	26	32	70	0	00	30.17	30.36
04	CLR	NC	10.00	47	41	44	80	0	00	29.80	29.99	04	CLR	NC	10.00		33	26	30	75	0	00	30.17	30.37	
07	CLR	NC	10.00	45	37	41	74	6	32	29.90	30.09	07	FEW	250	5.00	HZ	32	26	30	79	0	00	30.18	30.37	
10	FEW	050	10.00	58	37	48	46	16	34	29.99	30.18	10	FEW	250	10.00		51	27	41	39	6	17	30.18	30.38	
13	SCT	044	10.00	63	30	48	29	16	33	30.00	30.19	13	FEW	250	10.00		59	25	45	27	14	22	30.08	30.27	
16	FEW	065	10.00	60	23	44	24	13	35	30.05	30.24	16	FEW	250	10.00		58	28	45	32	13	20	30.01	30.21	
19	CLR	NC	10.00	51	28	41	41	3	05	30.13	30.33	19	BKN	300	10.00		47	29	40	50	7	19	30.01	30.21	
22	CLR	NC	10.00	44	29	38	55	3	01	30.20	30.40	22	FEW	110	10.00		48	31	41	52	10	20	29.95	30.14	
SUNRISE: 0637 NOV 04 SUNSET: 1708					41	27	36	57	6	01	30.24	30.43	01	CLR	NC	10.00		48	30	40	50	8	23	29.91	30.11
04	CLR	NC	10.00	39	30	35	70	7	01	30.33	30.52	04	CLR	NC	10.00		47	29	40	50	5	23	29.90	30.09	
07	FEW	250	10.00	37	29	34	73	8	02	30.36	30.55	07	SCT	300	10.00		44	29	38	55	5	22	29.91	30.11	
10	SCT	250	10.00	46	27	38	47	9	36	30.43	30.62	10	FEW	250	10.00		64	33	49	32	15	24	29.89	30.08	
13	OVC	250	10.00	52	24	41	34	6	36	30.39	30.59	13	CLR	NC	10.00		69	31	51	24	20	24	29.82	30.01	
16	BKN	250	10.00	50	25	40	38	7	05	30.38	30.58	16	CLR	NC	10.00		70	23	49	17	16	29	29.82	30.01	
19	BKN	230	10.00	43	27	37	53	6	05	30.40	30.60	19	CLR	NC	10.00		58	29	45	33	15	01	29.95	30.14	
22	BKN	230	10.00	42	28	36	58	6	34	30.44	30.63	22	CLR	NC	10.00		49	25	39	39	9	36	30.06	30.25	
SUNRISE: 0638 NOV 05 SUNSET: 1707					41	30	37	65	8	03	30.38	30.57	01	FEW	250	10.00		45	25	37	46	16	34	30.07	30.27
04	BKN	220	10.00	41	31	37	67	7	36	30.37	30.56	04	CLR	NC	10.00		41	25	35	53	9	34	30.09	30.28	
07	BKN	250	10.00	43	32	38	65	6	36	30.39	30.59	07	SCT	250	10.00		37	25	33	62	0	00	30.12	30.31	
10	OVC	049	10.00	52	38	46	59	7	35	30.41	30.60	10	BKN	250	10.00		53	27	42	37	0	00	30.17	30.36	
13	BKN	220	10.00	57	41	49	55	6	35	30.34	30.53	13	SCT	250	10.00		57	28	44	33	9	21	30.07	30.27	
16	OVC	055	10.00	61	45	53	56	5	01	30.32	30.51	16	BKN	250	10.00		56	31	45	39	6	21	30.01	30.20	
19	OVC	029	10.00	56	44	50	65	5	03	30.31	30.50	19	FEW	250	10.00		46	30	39	54	6	19	29.98	30.18	
22	OVC	230	10.00	53	46	49	77	0	00	30.30	30.49	22	OVC	150	10.00		49	32	42	52	8	19	29.94	30.13	
SUNRISE: 0639 NOV 06 SUNSET: 1706					56	48	52	75	0	00	30.28	30.47	01	OVC	230	10.00		48	32	41	54	6	19	29.88	30.08
04	OVC	250	10.00	53	47	50	80	5	33	30.23	30.42	04	OVC	150	10.00		45	31	39	58	6	20	29.81	30.00	
07	SCT	250	9.00	49	45	47	86	3	36	30.22	30.41	07	OVC	110	10.00		48	32	41	54	6	36	29.87	30.07	
10	BKN	250	10.00	62	50	56	65	0	00	30.19	30.38	10	OVC	100	10.00		50	32	42	50	20	36	29.97	30.16	
13	BKN	250	10.00	70	51	59	51	9	18	30.11	30.30	13	OVC	065	10.00		44	18	35	35	24	35	30.05	30.24	
16	BKN	250	10.00	68	51	58	55	6	16	30.05	30.24	16	OVC	090	10.00		41	16	32	36	18	35	30.09	30.29	
19	OVC	250	10.00	61	52	56	72	6	13	30.03	30.22	19	OVC	120	10.00		40	13	31	33	16	36	30.15	30.35	
22	FEW	075	10.00	58	51	54	78	5	15	29.98	30.17	22	BKN	220	10.00		39	12	30	33	14	35	30.21	30.41	

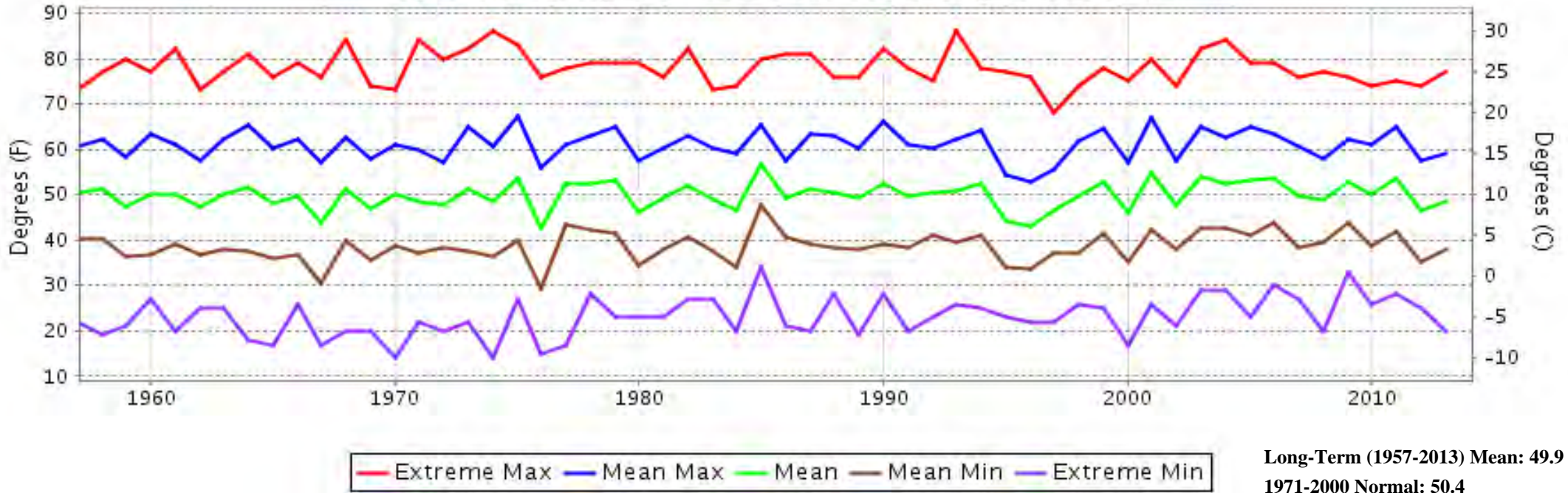
OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
NOVEMBER 2013 **KRIC**

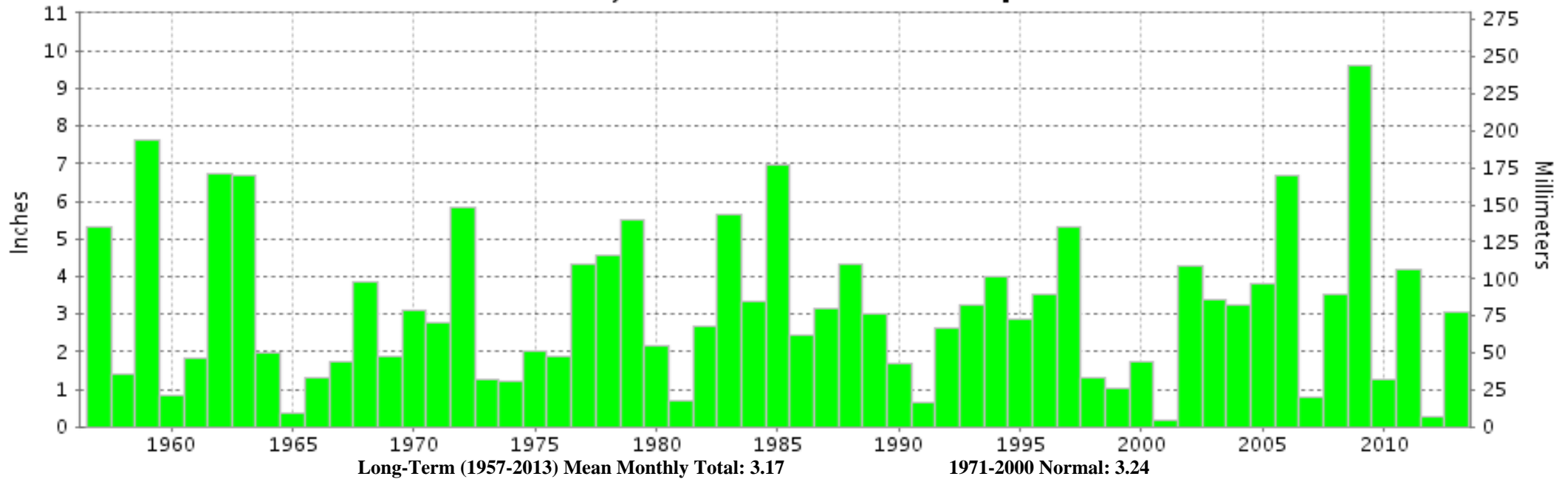
WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)					
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL						DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL				
SUNRISE: 0647					NOV 13					SUNSET: 1700					SUNRISE: 0653					NOV 19					SUNSET: 1656				
01	CLR	NC	10.00		33	14	27	45	8	34	30.24	30.44	01	CLR	NC	10.00		52	23	40	32	8	33	29.76	29.95				
04	CLR	NC	10.00		32	16	27	52	6	33	30.24	30.44	04	CLR	NC	10.00		46	25	38	44	8	33	29.81	30.00				
07	CLR	NC	10.00		30	16	26	56	8	32	30.29	30.48	07	CLR	NC	10.00		42	26	36	53	7	01	29.92	30.11				
10	FEW	050	10.00		40	15	32	36	17	34	30.33	30.52	10	CLR	NC	10.00		49	25	39	39	21	36	29.99	30.18				
13	FEW	055	10.00		46	15	35	29	14	35	30.27	30.47	13	FEW	250	10.00		53	25	41	34	10	35	29.98	30.17				
16	CLR	NC	10.00		45	14	34	29	9	34	30.27	30.46	16	BKN	250	10.00		50	25	40	38	10	34	30.01	30.21				
19	CLR	NC	10.00		35	17	29	48	3	15	30.28	30.48	19	BKN	250	10.00		44	26	37	49	8	35	30.09	30.29				
22	CLR	NC	10.00		31	19	27	61	0	00	30.27	30.47	22	OVC	250	10.00		43	25	36	49	11	36	30.16	30.35				
SUNRISE: 0648					NOV 14					SUNSET: 1660					SUNRISE: 0654					NOV 20					SUNSET: 1656				
01	CLR	NC	10.00		29	19	26	66	0	00	30.24	30.44	01	BKN	230	10.00		40	25	34	55	9	33	30.20	30.39				
04	CLR	NC	10.00		28	16	24	60	6	22	30.20	30.40	04	BKN	230	10.00		38	25	33	60	8	36	30.23	30.43				
07	CLR	NC	10.00		27	16	24	63	3	19	30.21	30.41	07	BKN	250	10.00		36	25	32	64	8	01	30.28	30.47				
10	FEW	250	10.00		45	16	35	31	10	22	30.21	30.41	10	BKN	250	10.00		44	27	37	51	8	03	30.34	30.54				
13	FEW	250	10.00		59	12	42	15	14	22	30.14	30.33	13	FEW	250	10.00		50	28	41	43	7	05	30.29	30.48				
16	FEW	250	10.00		60	14	42	16	10	20	30.11	30.31	16	BKN	250	10.00		49	32	42	52	8	07	30.29	30.48				
19	FEW	300	10.00		44	22	36	41	7	19	30.11	30.31	19	OVC	070	10.00		44	33	39	65	8	04	30.31	30.51				
22	CLR	NC	10.00		41	23	34	49	8	20	30.12	30.31	22	SCT	250	10.00		40	32	37	73	6	04	30.33	30.53				
SUNRISE: 0649					NOV 15					SUNSET: 1659					SUNRISE: 0655					NOV 21					SUNSET: 1655				
01	FEW	250	10.00		39	22	33	50	6	20	30.09	30.29	01	BKN	070	10.00		41	34	38	76	8	02	30.33	30.53				
04	CLR	NC	10.00		37	23	32	57	0	00	30.09	30.29	04	BKN	050	10.00		41	34	38	76	7	01	30.32	30.52				
07	SCT	250	10.00		31	23	28	72	8	20	30.11	30.30	07	BKN	055	10.00		41	35	38	79	9	02	30.33	30.53				
10	BKN	250	10.00		52	24	41	34	8	23	30.14	30.33	10	BKN	070	10.00		48	37	43	66	5	01	30.34	30.54				
13	BKN	250	10.00		60	23	44	24	9	22	30.07	30.27	13	OVC	250	10.00		58	41	50	53	5	01	30.28	30.47				
16	OVC	250	10.00		58	31	46	36	3	18	30.04	30.24	16	OVC	180	10.00		58	43	51	58	0	00	30.25	30.45				
19	OVC	180	10.00		55	37	47	51	7	18	30.05	30.24	19	OVC	033	10.00		54	44	49	69	0	00	30.26	30.45				
22	OVC	075	10.00		53	40	47	61	3	13	30.05	30.24	22	BKN	220	10.00		49	44	47	83	3	28	30.24	30.43				
SUNRISE: 0650					NOV 16					SUNSET: 1658					SUNRISE: 0656					NOV 22					SUNSET: 1655				
01	OVC	055	10.00		52	47	49	83	7	33	30.07	30.26	01	OVC	060	10.00		49	43	46	80	0	00	30.21	30.40				
04	OVC	023	5.00	-RA BR	50	48	49	93	3	08	30.08	30.27	04	OVC	090	10.00		49	42	46	77	3	16	30.15	30.34				
07	OVC	043	4.00	RA BR	50	48	49	93	3	11	30.10	30.29	07	OVC	140	10.00		50	45	48	83	7	21	30.12	30.32				
10	OVC	016	2.00	BR	53	51	52	93	3	04	30.13	30.32	10	OVC	250	10.00		58	47	52	67	7	22	30.09	30.28				
13	OVC	041	10.00		59	54	56	83	0	00	30.08	30.28	13	BKN	250	10.00		72	52	61	50	14	24	29.98	30.17				
16	OVC	023	4.00	BR	59	55	57	87	5	01	30.07	30.26	16	OVC	250	10.00		71	54	61	55	9	21	29.91	30.10				
19	OVC	014	2.00	BR	57	55	56	93	3	04	30.08	30.27	19	OVC	110	10.00		67	56	61	68	9	21	29.86	30.06				
22			0.50						0	00			22	OVC	095	10.00		67	55	60	66	10	25	29.85	30.04				
SUNRISE: 0651					NOV 17					SUNSET: 1658					SUNRISE: 0657					NOV 23					SUNSET: 1654				
01	OVC	003	1.25	BR	56	55	55	97	0	00	30.06	30.25	01	OVC	100	10.00		63	57	60	81	7	25	29.83	30.02				
04			0.75						0	00			04	BKN	060	10.00		58	46	52	65	17	36	29.87	30.06				
07			0.25						0	00			07	BKN	250	10.00		51	37	45	59	15	36	29.93	30.13				
10	BKN	250	10.00		63	55	58	76	7	18	29.99	30.18	10	BKN	250	10.00		55	32	45	42	13	35	29.97	30.16				
13	BKN	250	10.00		68	56	61	65	8	23	29.90	30.09	13	BKN	110	10.00		54	25	42	33	5	01	29.89	30.09				
16	OVC	250	10.00		67	57	61	71	5	20	29.84	30.03	16	BKN	300	10.00		56	21	42	26	0	00	29.86	30.05				
19	OVC	140	10.00		64	58	60	81	9	14	29.79	29.98	19	BKN	300	10.00		45	28	38	52	0	00	29.87	30.06				
22	OVC	120	10.00	-RA	65	60	62	84	9	17	29.70	29.89	22	BKN	300	10.00		45	15	34	30	15	32	29.93	30.12				
SUNRISE: 0652					NOV 18					SUNSET: 1657					SUNRISE: 0658					NOV 24					SUNSET: 1654				
01	OVC	015	10.00		67	64	65	91	17	20	29.62	29.80	01	SCT	300	10.00		38	18	31	44	13	36	30.01	30.20				
04	OVC	015	10.00		69	65	66	87	15	21	29.57	29.76	04	SCT	300	10.00		32	9	25	38	17	34	30.09	30.29				
07	OVC	070	10.00		64	59	61	84	6	24	29.63	29.83	07	SCT	300	10.00		27	9	22	46	10	33	30.18	30.38				
10	SCT	110	10.00		69	43	55	39	14	30	29.66	29.85	10	FEW	045	10.00		32	5	25	32	14	33	30.26	30.46				
13	CLR	NC	10.00		72	35	54	26	14	27	29.61	29.80	13	FEW	065	10.00		34	-2	25	21	17	32	30.23	30.43				
16	CLR	NC	10.00		70	31	51	23	13	26	29.60	29.79	16	FEW	060	10.00		34	-1	25	22	16	33	30.25	30.45				
19	FEW	300	10.00		62	25	46	24	5	27	29.67	29.86	19	CLR	NC	10.00		30	-0	22	27	7	33	30.33	30.53				
22	CLR	NC	10.00		56	26	43	32	9	31	29.73	29.92	22	CLR	NC	10.00		27	4	21	37	3	36	30.36	30.56				

RICHMOND, VA NOVEMBER Temperatures



RICHMOND, VA NOVEMBER Precipitation





**NOVEMBER 2013
RICHMOND, VA**

**LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center**

I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA-National Weather Service / Department Of Transportation-Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.

A handwritten signature in black ink, appearing to read "Thomas R. Karl".

DIRECTOR

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