



# JANUARY 2014 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 11	1300 LST 12	2400 LST 13	2400 LST 14	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			3-SEC		2-MIN			
01	49	26	38	1	26	32	27	0		0		0.0	0.00	30.15	30.33	3.9	17	4.0	17	18	15	18	01	
02	45	30	38	1	32	35	27	0	RA SN BR	0		0.0	0.41	29.70	29.85	0.6	31	3.0	18	34	15	33	02	
03	35	19	27	-10	10	22	38	0	RA SN	0		0.0	0.0	29.91	30.21	13.5	34	14.2	46*	33	35*	34	03	
04	39	16	28	-9	13	24	37	0		0		0.0	0.00	30.27	30.46	4.0	18	4.5	17	18	15	19	04	
05	61	37	49	12	39	44	16	0	RA BR	0		0.0	0.05	29.95	30.09	3.9	18	4.4	30	19	23	20	05	
06	63	18	41	5	31	40	24	0	RA BR	0		0.0	0.37	29.52	29.75	11.9	26	16.4	45	20	32	27	06	
07	22	10	16*	-20	-6	11	49	0		0		0.0	0.00	30.13	30.38	10.2	27	11.7	29	28	24	29	07	
08	36	13	25	-11	6	20	40	0		0		0.0	0.00	30.33	30.55	2.5	18	3.1	13	16	9	14	08	
09	47	27	37	1	18	30	28	0		0		0.0	0.00	30.35	30.57	3.0	09	3.8	14	02	12	05	09	
10	41	32	37	1	34	36	28	0	RA BR	0		0.0	0.23	30.19	30.36	3.6	02	4.2	12	36	10	35	10	
11	67*	41	54*	18	51	52	11	0	TSRA RA FG+ FG BR	0		0.0	0.80	29.59	29.75	7.1	21	9.4	32	30	25	29	11	
12	56	38	47	11	33	41	18	0		0		0.0	0.00	29.70	29.95	6.8	27	8.1	24	30	17	29	12	
13	61	34	48	12	34	41	17	0		0		0.0	0.00	29.88	30.07	8.6	19	8.7	28	21	23	20	13	
14	52	38	45	9	44	46	20	0	RA FG+ FG MIFG BR	0		0.0	0.98	29.67	29.86	3.8	21	6.2	20	27	16	27	14	
15	56	37	47	11	40	43	18	0	RA FG+ FG BR	0		0.0	0.01	29.73	29.93	1.0	17	7.4	33	36	26	36	15	
16	42	30	36	0	29	32	29	0	SN BR	0		0.0	0.06	29.78	29.99	3.4	35	7.9	22	02	16	02	16	
17	51	27	39	3	28	35	26	0		0		0.0	0.00	29.75	29.93	6.2	18	6.6	18	19	14	18	17	
18	45	24	35	-1	17	29	30	0		0		0.0	0.00	29.71	29.93	8.0	29	9.2	25	30	20	29	18	
19	53	25	39	3	20	33	26	0		0		0.0	0.00	29.71	29.89	10.0	24	11.0	32	25	25	25	19	
20	61	33	47	11	23	37	18	0		0		0.0	0.00	29.59	29.79	8.3	24	10.5	30	24	23	26	20	
21	42	20	31	-5	24	30	34	0	SN BR	0		2.0	0.13	29.57	29.77	11.9	02	13.0	38	36	28	36	21	
22	23	10	17	-19	0	13	48	0	SN	2		0.0	0.0	29.78	30.02	10.8	34	11.2	37	34	29	34	22	
23	31	7	19	-17	4	16	46	0		1		0.0	0.00	30.04	30.28	6.0	29	7.7	26	29	21	35	23	
24	25	11	18	-18	-3	13	47	0		1		0.0	0.00	30.27	30.45	5.0	26	8.5	21	32	16	33	24	
25	35	18	27	-9	6	22	38	0		T		0.0	0.00	29.65	29.80	14.9	21	15.9	36	21	28	21	25	
26	43	17	30	-7	8	26	35	0		0		0.0	0.00	29.66	29.87	5.3	23	8.4	30	29	24	28	26	
27	64	27	46	9	22	35	19	0		0		0.0	0.00	29.64	29.86	1.7	28	11.3	29	02	23	01	27	
28	27	14	21	-16	0	15	44	0	SN	0		1.8	0.15	30.12	30.33	10.7	01	10.9	22	02	18	36	28	
29	26	11	19	-18	5	15	46	0	SN BR	3		1.3	0.09	30.10	30.31	3.1	35	5.7	21	35	16	36	29	
30	36	4*	20	-17	5	16	45	0		2		0.0	0.00	30.19	30.38	1.5	12	2.1	14	06	10	07	30	
31	50	14	32	-5	14	26	33	0		T		0.0	0.00	29.99	30.19	2.4	17	3.3	10	18	9	18	31	

44.6	22.8	33.7	☼	19.6	29.4	31.0	0.0	< MONTHLY AVERAGES   TOTALS >				5.1	3.28	29.89	30.09	2.6	26	8.1	< MONTHLY AVERAGES			
-2.8	-5.5	-4.2		-----DEPARTURE FROM NORMAL ----->				0.24				SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										

<b>DEGREE DAYS</b>				<b>GREATEST 24-HR PRECIPITATION :</b> 0.98 <b>DATE :</b> 14				<b>SEA LEVEL PRESSURE</b>			
<b>MONTHLY</b>				<b>GREATEST 24-HR SNOWFALL :</b> 2.0 <b>DATE :</b> 21				<b>MAXIMUM :</b> 30.64 <b>DATE</b> 09 <b>TIME</b> 1015			
<b>SEASON TO DATE</b>				<b>GREATEST SNOW DEPTH :</b> 3 <b>DATE :</b> 29				<b>MINIMUM :</b> 29.53 <b>DATE</b> 11 <b>TIME</b> 1854			
<b>TOTAL DEPARTURE</b>		<b>TOTAL DEPARTURE</b>		<b>NUMBER OF -&gt; DAYS WITH</b>		<b>MAXIMUM TEMP &gt;= 90 :</b> 0		<b>MINIMUM TEMP &lt;= 32 :</b> 24		<b>PRECIPITATION &gt;= 0.01 INCH :</b> 11	
<b>HEATING :</b> 962 120		2253 -8		<b>THUNDERSTORMS :</b> 1		<b>MAXIMUM TEMP &lt;= 32 :</b> 6		<b>MINIMUM TEMP &lt;= 0 :</b> 0		<b>PRECIPITATION &gt;= 0.10 INCH :</b> 7	
<b>COOLING :</b> 0 0		0 0						<b>HEAVY FOG :</b> 3		<b>SNOWFALL &gt;= 1.0 INCH :</b> 3	

**JANUARY 2014  
RICHMOND, VA**

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)  
JANUARY 2014

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													01												01	0.00	0.00	
02													02			T	0.02	0.07	0.04	0.07	0.06	0.08	0.06	0.01	02	0.41	0.41	
03		T	T										03												03	T	T	
04													04												04	0.00	0.00	
05											T		05			0.02	0.02			T	0.01	T	T	T	05	0.05	0.05	
06				0.01	0.20	0.01	0.10	0.01				T	0.03	0.01	0.06										06	0.37	0.37	
07																									07	0.00	0.00	
08																									08	0.00	0.00	
09																									09	0.00	0.00	
10											T	0.04	0.02	0.01	0.01	0.03	0.02	0.03	0.02	0.02	0.01		T	T	10	0.23	0.23	
11				0.01	0.13	T		0.01				0.01	0.02	0.17	11	0.13	0.01	0.21	0.08	0.01	T	0.01			11	0.80	0.80	
12															12										12	0.00	0.00	
13															13										13	0.00	0.00	
14			0.01	T	0.02	0.03	0.01	0.04	0.19	0.10	0.23	0.17	14	0.09	T	0.09									14	0.98	0.98	
15													15									0.01			15	0.01	0.01	
16	0.01	0.01	0.01	0.01	T	T	0.02	T	T				16												16	0.06	0.06	
17													17												17	0.00	0.00	
18													18												18	0.00	0.00	
19													19												19	0.00	0.00	
20													20												20	0.00	0.00	
21													21			T	0.02	0.02	0.03	0.02		T	0.02	0.01	0.01	21	0.13	0.13
22	T	T	T										22												22	T	T	
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25													25												25	0.00	0.00	
26													26												26	0.00	0.00	
27													27												27	0.00	0.00	
28													28			T	0.01	T	0.02	0.02	0.03	0.03	0.02	0.02	28	0.15	0.15	
29	0.03	0.03	0.02	T	0.01	T							29												29	0.09	0.09	
30													30												30	0.00	0.00	
31													31												31	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)	0.11	0.13	0.15	0.16	0.22	0.25	0.28	0.31	0.36	0.40	0.46	0.55
Ending Date	11	11	11	11	11	11	11	14	14	14	14	14
Ending Time (Hr/Min)	0411	1439	1443	1450	1500	1509	1524	1135	1157	1206	1231	1122

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 JANUARY 2014

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

Date	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	10.00	10.00
02	3.00	10.00
03	7.00	10.00
04	10.00	10.00
05	2.00	10.00
06	4.00	10.00
07	10.00	10.00
08	10.00	10.00
09	10.00	10.00
10	0.75	10.00
11	0.12	10.00
12	10.00	10.00
13	10.00	10.00
14	0.25	10.00
15	0.12	10.00
16	1.75	10.00
17	7.00	10.00
18	10.00	10.00
19	10.00	10.00
20	10.00	10.00
21	1.00	10.00
22	2.00	10.00
23	10.00	10.00
24	10.00	10.00
25	10.00	10.00
26	10.00	10.00
27	10.00	10.00
28	1.25	10.00
29	1.00	10.00
30	9.00	10.00
31	10.00	10.00
<b>AVGS</b>	6.46	10.00
<b>MINIMUM VISIBILITY (MILES)</b>		
<= .25	<= 3.0	>= 7.0
3	11	19

# OBSERVATIONS AT 3-HOURLY INTERVALS

# RICHMOND, VA JANUARY 2014 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: 0724					JAN 01					SUNSET: 1702					SUNRISE: 0724					JAN 07					SUNSET: 1707				
01	CLR	NC	10.00		32	20	28	61	0	00	30.17	30.36	01	CLR	NC	10.00		16	-10	11	30	17	29	29.94	30.14				
04	CLR	NC	10.00		30	23	28	75	0	00	30.19	30.38	04	CLR	NC	10.00		12	-11	8	34	17	29	30.05	30.25				
07	FEW	250	10.00		28	23	26	81	0	00	30.22	30.42	07	CLR	NC	10.00		10	-11	7	37	17	26	30.16	30.36				
10	SCT	250	10.00		40	28	35	63	8	14	30.24	30.43	10	CLR	NC	10.00		13	-12	9	31	13	28	30.22	30.42				
13	SCT	250	10.00		45	30	39	56	9	17	30.17	30.36	13	CLR	NC	10.00		19	-8	14	29	9	27	30.19	30.40				
16	SCT	250	10.00		48	30	40	50	9	17	30.09	30.29	16	FEW	300	10.00		21	-9	15	26	13	27	30.18	30.38				
19	BKN	300	10.00		37	29	34	73	0	00	30.06	30.26	19	FEW	300	10.00		16	-0	13	49	6	17	30.24	30.45				
22	FEW	300	10.00		34	26	31	73	0	00	30.01	30.21	22	CLR	NC	10.00		17	-0	13	47	7	21	30.29	30.49				
SUNRISE: 0724					JAN 02					SUNSET: 1703					SUNRISE: 0724					JAN 08					SUNSET: 1708				
01	BKN	250	10.00		31	26	29	82	0	00	29.94	30.13	01	CLR	NC	10.00		16	-0	13	49	0	00	30.28	30.48				
04	BKN	250	10.00		32	27	30	82	0	00	29.88	30.07	04	CLR	NC	10.00		14	5	12	67	0	00	30.33	30.53				
07	OVC	250	10.00		32	27	30	82	0	00	29.80	30.00	07	CLR	NC	10.00		14	4	12	64	0	00	30.37	30.57				
10	OVC	200	10.00		38	30	35	73	3	28	29.76	29.96	10	FEW	250	10.00		24	4	19	42	0	00	30.44	30.64				
13	OVC	210	10.00		43	31	38	63	0	00	29.60	29.80	13	BKN	250	10.00		32	2	24	27	7	23	30.35	30.55				
16	OVC	041	9.00	-RA	43	35	40	74	5	07	29.53	29.72	16	SCT	250	10.00		36	5	27	27	7	15	30.32	30.52				
19	OVC	055	4.00	-RA BR	40	38	39	93	0	00	29.47	29.66	19	BKN	300	10.00		28	10	23	47	7	13	30.33	30.53				
22	OVC	004	4.00	-RA BR	38	37	38	97	6	34	29.41	29.61	22	BKN	120	10.00		28	13	24	53	3	17	30.34	30.54				
SUNRISE: 0724					JAN 03					SUNSET: 1704					SUNRISE: 0724					JAN 09					SUNSET: 1709				
01	OVC	005	10.00		35	33	34	93	14	31	29.44	29.63	01	OVC	120	10.00		32	14	26	47	5	19	30.30	30.50				
04	BKN	060	10.00		32	20	28	61	26	34	29.59	29.79	04	OVC	170	10.00		30	15	25	54	3	17	30.33	30.53				
07	BKN	120	10.00		24	10	20	55	22	33	29.85	30.04	07	OVC	250	10.00		30	17	26	58	0	00	30.37	30.57				
10	FEW	030	10.00		25	7	20	46	22	34	30.05	30.25	10	SCT	250	10.00		39	14	31	36	5	05	30.44	30.63				
13	CLR	NC	10.00		29	3	22	33	18	33	30.09	30.29	13	SCT	250	10.00		45	17	35	33	7	10	30.37	30.57				
16	CLR	NC	10.00		29	5	23	36	7	01	30.18	30.37	16	FEW	250	10.00		46	19	36	34	8	07	30.36	30.55				
19	CLR	NC	10.00		23	5	18	46	7	03	30.25	30.45	19	SCT	170	10.00		37	21	31	52	9	09	30.38	30.58				
22	CLR	NC	10.00		21	4	17	47	3	07	30.32	30.52	22	OVC	180	10.00		32	23	29	69	0	00	30.39	30.59				
SUNRISE: 0724					JAN 04					SUNSET: 1704					SUNRISE: 0724					JAN 10					SUNSET: 1710				
01	CLR	NC	10.00		19	5	16	54	3	06	30.31	30.52	01	OVC	065	10.00		33	26	30	75	3	36	30.31	30.51				
04	CLR	NC	10.00		17	8	15	68	0	00	30.32	30.52	04	OVC	042	10.00		34	27	31	76	7	36	30.28	30.47				
07	FEW	200	10.00		17	10	15	74	3	14	30.35	30.56	07	OVC	040	10.00		35	29	33	78	3	03	30.23	30.42				
10	CLR	NC	10.00		26	13	22	57	6	17	30.36	30.56	10	OVC	037	2.50	-RA BR	35	32	34	89	6	02	30.26	30.45				
13	FEW	060	10.00		35	12	28	38	7	13	30.24	30.44	13	OVC	034	3.00	-RA BR	38	36	37	93	3	03	30.17	30.37				
16	FEW	150	10.00		39	11	30	31	11	19	30.21	30.41	16	OVC	004	2.50	-RA BR	40	38	39	93	5	06	30.12	30.32				
19	BKN	250	10.00		36	18	30	48	9	19	30.18	30.38	19	OVC	003	2.00	-RA BR	40	39	40	97	3	12	30.07	30.27				
22	OVC	025	10.00		37	21	31	52	5	20	30.15	30.35	22	OVC	065	0.75	BR	41	39	40	93	3	36	30.01	30.20				
SUNRISE: 0724					JAN 05					SUNSET: 1705					SUNRISE: 0724					JAN 11					SUNSET: 1711				
01	OVC	060	10.00		37	23	32	57	0	00	30.11	30.31	01	OVC	006	1.25	BR	41	40	41	96	5	04	29.88	30.08				
04	OVC	039	10.00		38	24	33	57	0	00	30.10	30.29	04	VV	002	0.25	-RA FG	41	40	41	96	0	00	29.82	30.01				
07	OVC	080	10.00		37	26	33	65	0	00	30.06	30.25	07	VV	001	0.25	FG	44	43	44	96	0	00	29.71	29.90				
10	BKN	100	10.00		42	28	36	58	0	00	30.03	30.23	10	OVC	008	1.00	BR	58	58	58	100	9	19	29.63	29.82				
13	OVC	080	10.00		51	39	45	64	5	21	29.91	30.11	13	OVC	100	7.00	-RA	65	63	64	93	16	18	29.44	29.63				
16	OVC	075	2.00	-RA BR	55	51	53	87	0	00	29.80	30.00	16	OVC	100	10.00	-RA	58	54	56	87	10	24	29.44	29.63				
19	OVC	014	10.00		57	53	55	87	9	15	29.72	29.92	19	BKN	120	10.00		56	53	54	90	14	19	29.34	29.53				
22	OVC	017	10.00		61	59	60	93	16	20	29.63	29.82	22	OVC	190	10.00		56	51	53	84	16	24	29.37	29.57				
SUNRISE: 0724					JAN 06					SUNSET: 1706					SUNRISE: 0724					JAN 12					SUNSET: 1712				
01	OVC	200	10.00		58	56	57	93	11	17	29.52	29.70	01	BKN	100	10.00		52	49	50	89	7	25	29.42	29.61				
04	OVC	030	10.00		62	59	60	90	16	18	29.41	29.59	04	SCT	170	10.00		48	36	43	63	11	30	29.52	29.71				
07	OVC	040	4.00	-RA BR	53	50	51	89	21	27	29.39	29.58	07	FEW	170	10.00		43	31	38	63	8	26	29.65	29.84				
10	OVC	048	10.00	-RA	48	42	45	80	14	26	29.47	29.66	10	CLR	NC	10.00		49	31	41	50	13	26	29.77	29.96				
13	BKN	200	10.00		47	31	40	54	18	31	29.47	29.66	13	FEW	045	10.00		53	29	43	40	17	30	29.80	29.99				
16	BKN	250	10.00		42	22	34	45	11	28	29.55	29.74	16	FEW	200	10.00		55	30	44	38	5	28	29.84	30.04				
19	BKN	250	10.00		34	12	27	40	20	28	29.68	29.88	19	CLR	NC	10.00		48	31	41	52	6	24	29.92	30.11				
22	SCT	250	10.00		23	-3	17	32	22	30	29.84	30.04	22	CLR	NC	10.00		42	30	37	62	3	15	29.95	30.15				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# RICHMOND, VA

JANUARY 2014

KRIC

WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F					WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F					WIND		PRESSURE (INCHES, HG)			
					DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL	DRY BULB						DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL				
																										DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)
<b>SUNRISE: 0723</b>					<b>JAN 13</b>					<b>SUNSET: 1713</b>					<b>SUNRISE: 0721</b>					<b>JAN 19</b>					<b>SUNSET: 1719</b>				
01	CLR	NC	10.00		38	30	35	73	0	00	29.95	30.14	01	OVC	080	10.00		27	15	23	61	6	20	29.81	30.00				
04	CLR	NC	10.00		36	30	34	79	3	19	29.95	30.14	04	OVC	080	10.00		30	17	26	58	3	17	29.74	29.94				
07	SCT	250	10.00		35	29	33	78	3	17	29.95	30.15	07	SCT	200	10.00		27	17	24	66	7	19	29.71	29.91				
10	SCT	250	10.00		47	35	42	63	10	19	29.97	30.16	10	FEW	100	10.00		40	17	32	40	13	22	29.72	29.92				
13	BKN	250	10.00		59	37	48	44	17	20	29.85	30.04	13	CLR	NC	10.00		52	24	41	34	17	26	29.64	29.84				
16	OVC	250	10.00		59	36	48	42	13	19	29.82	30.01	16	FEW	065	10.00		52	23	40	32	17	25	29.64	29.84				
19	BKN	250	10.00		50	35	43	57	8	18	29.80	29.99	19	CLR	NC	10.00		45	24	37	44	8	25	29.68	29.88				
22	OVC	200	10.00		51	36	44	56	8	18	29.79	29.98	22	CLR	NC	10.00		41	24	35	51	9	22	29.68	29.88				
<b>SUNRISE: 0723</b>					<b>JAN 14</b>					<b>SUNSET: 1714</b>					<b>SUNRISE: 0721</b>					<b>JAN 20</b>					<b>SUNSET: 1720</b>				
01	OVC	150	10.00		51	38	45	61	10	20	29.75	29.94	01	FEW	250	10.00		41	22	34	47	11	22	29.64	29.83				
04	OVC	090	10.00	-RA	48	44	46	86	3	18	29.66	29.85	04	CLR	NC	10.00		38	23	32	55	9	21	29.61	29.80				
07	OVC	060	10.00	-RA	48	47	48	96	5	21	29.63	29.83	07	BKN	250	10.00		42	20	34	41	11	24	29.59	29.78				
10	OVC	028	2.00	-RA BR	50	48	49	93	7	20	29.63	29.82	10	BKN	250	10.00		50	18	38	28	14	24	29.59	29.79				
13	OVC	013	2.00	-RA BR	50	47	48	89	13	27	29.56	29.75	13	BKN	250	10.00		58	22	43	25	14	24	29.52	29.71				
16	BKN	100	10.00		52	46	49	80	5	35	29.61	29.80	16	BKN	250	10.00		60	22	44	23	16	26	29.54	29.74				
19	FEW	070	7.00		43	41	42	93	3	16	29.71	29.91	19	CLR	NC	10.00		43	28	37	56	5	16	29.60	29.80				
22	SCT	001	6.00	MIFG	40	39	40	97	3	14	29.75	29.94	22	CLR	NC	10.00		43	27	37	53	7	02	29.68	29.87				
<b>SUNRISE: 0723</b>					<b>JAN 15</b>					<b>SUNSET: 1715</b>					<b>SUNRISE: 0720</b>					<b>JAN 21</b>					<b>SUNSET: 1721</b>				
01	VV	002	0.12	FG	42	41	42	96	3	18	29.77	29.96	01	CLR	NC	10.00		40	25	34	55	6	06	29.68	29.87				
04	VV	001	0.25	FG	39	38	39	96	3	14	29.77	29.96	04	CLR	NC	10.00		37	25	33	62	6	07	29.65	29.84				
07	BKN	010	0.50	FG	38	37	38	97	3	15	29.78	29.97	07	BKN	270	10.00		35	27	32	72	6	05	29.60	29.79				
10	SCT	250	9.00		46	43	45	89	8	18	29.80	29.99	10	OVC	025	10.00		40	27	35	60	13	05	29.53	29.72				
13	BKN	250	10.00		53	43	48	69	9	21	29.70	29.90	13	OVC	025	10.00		39	29	35	67	16	02	29.45	29.65				
16	SCT	250	10.00		56	43	50	62	8	19	29.67	29.87	16	OVC	013	10.00		30	23	28	75	20	02	29.49	29.69				
19	BKN	250	10.00		49	43	46	80	3	10	29.67	29.87	19	OVC	012	1.50	-SN	26	21	24	81	16	01	29.58	29.78				
22	OVC	021	10.00	-RA	40	35	38	83	17	02	29.74	29.94	22	OVC	017	1.00	-SN BR	23	19	22	85	18	35	29.62	29.81				
<b>SUNRISE: 0722</b>					<b>JAN 16</b>					<b>SUNSET: 1716</b>					<b>SUNRISE: 0720</b>					<b>JAN 22</b>					<b>SUNSET: 1722</b>				
01	OVC	034	9.00	-SN	36	33	35	89	9	35	29.77	29.97	01	OVC	036	2.00	-SN	19	12	17	74	21	36	29.67	29.87				
04	OVC	031	4.00	-SN BR	34	31	33	89	10	36	29.78	29.98	04	SCT	120	10.00		17	2	14	51	21	33	29.72	29.92				
07	OVC	046	3.00	-SN BR	33	31	32	92	8	34	29.81	30.00	07	CLR	NC	10.00		13	-3	10	49	23	34	29.76	29.96				
10	OVC	050	9.00		34	30	32	85	6	01	29.84	30.04	10	SCT	250	10.00		15	-6	11	38	17	34	29.85	30.05				
13	BKN	250	10.00		37	26	33	65	13	33	29.76	29.96	13	BKN	250	10.00		19	-4	14	36	13	34	29.83	30.03				
16	SCT	033	10.00		41	26	35	55	3	28	29.75	29.94	16	CLR	NC	10.00		23	-4	17	30	8	31	29.83	30.03				
19	FEW	034	10.00		33	27	31	78	6	18	29.80	30.00	19	CLR	NC	10.00		17	2	14	51	5	04	29.87	30.07				
22	CLR	NC	10.00		30	25	28	82	6	18	29.83	30.02	22	BKN	110	10.00		13	4	11	67	0	00	29.91	30.11				
<b>SUNRISE: 0722</b>					<b>JAN 17</b>					<b>SUNSET: 1717</b>					<b>SUNRISE: 0719</b>					<b>JAN 23</b>					<b>SUNSET: 1723</b>				
01	CLR	NC	9.00		31	28	30	89	8	20	29.81	30.01	01	OVC	095	10.00		16	4	13	59	0	00	29.94	30.14				
04	CLR	NC	9.00		29	25	28	85	5	18	29.79	29.98	04	OVC	085	10.00		15	5	13	64	0	00	29.97	30.17				
07	CLR	NC	9.00		29	25	28	85	5	17	29.79	29.99	07	SCT	300	10.00		7	1	6	76	5	14	30.03	30.23				
10	CLR	NC	10.00		38	27	34	65	8	20	29.81	30.01	10	BKN	300	10.00		20	7	17	57	5	19	30.06	30.26				
13	SCT	250	10.00		48	28	40	46	10	19	29.73	29.93	13	OVC	250	10.00		29	8	23	41	16	25	30.04	30.24				
16	OVC	250	10.00		51	28	41	41	8	16	29.69	29.88	16	BKN	220	10.00		30	8	24	39	10	27	30.06	30.26				
19	OVC	210	10.00		46	30	39	54	5	15	29.67	29.87	19	FEW	060	10.00		26	-0	20	32	15	31	30.16	30.36				
22	OVC	130	10.00		43	32	38	65	5	16	29.66	29.86	22	BKN	250	10.00		19	-4	14	36	13	33	30.25	30.45				
<b>SUNRISE: 0722</b>					<b>JAN 18</b>					<b>SUNSET: 1718</b>					<b>SUNRISE: 0719</b>					<b>JAN 24</b>					<b>SUNSET: 1724</b>				
01	OVC	190	10.00		40	32	37	73	3	20	29.62	29.81	01	BKN	170	10.00		16	-5	12	38	13	33	30.27	30.47				
04	SCT	110	10.00		38	29	34	70	11	33	29.63	29.83	04	FEW	200	10.00		13	-5	10	44	8	32	30.31	30.51				
07	BKN	032	10.00		35	28	32	76	7	32	29.67	29.86	07	CLR	NC	10.00		11	-6	8	46	6	30	30.37	30.58				
10	FEW	032	10.00		36	14	29	40	10	29	29.76	29.95	10	CLR	NC	10.00		16	-4	12	41	11	30	30.40	30.61				
13	SCT	045	10.00		36	11	28	35	11	31	29.75	29.94	13	CLR	NC	10.00		22	-7	16	27	0	00	30.29	30.50				
16	CLR	NC	10.00		36	9	28	32	15	28	29.77	29.96	16	FEW	300	10.00		24	-5	18	27	6	25	30.22	30.42				
19	FEW	300	10.00		31	9	25	40	6	24	29.81	30.01	19	CLR	NC	10.00		17	-2	13	43	8	19	30.16	30.36				
22	FEW	300	10.00		27	11	22	51	6	23	29.81	30.01	22	CLR	NC	10.00		18	-1	14	43	9	19	30.06	30.27				

# OBSERVATIONS AT 3-HOURLY INTERVALS

**RICHMOND, VA**  
**JANUARY 2014**

**KRIC**

**WBAN # 13740**

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					
<b>SUNRISE: 0718      JAN 25      SUNSET: 1725</b>					01	BKN	250	10.00		19	-0	15	43	15	20	29.98	30.18
04	SCT	250	10.00		18	-0	14	45	15	19	29.86	30.06					
07	BKN	170	10.00		21	2	16	43	16	19	29.75	29.95					
10	OVC	150	10.00		26	4	20	38	21	21	29.63	29.83					
13	OVC	080	10.00		30	5	23	34	17	21	29.47	29.67					
16	OVC	180	10.00		34	7	26	32	21	22	29.39	29.57					
19	SCT	095	10.00		35	9	27	34	14	24	29.44	29.62					
22	CLR	NC	10.00		34	15	28	46	15	24	29.45	29.65					
<b>SUNRISE: 0717      JAN 26      SUNSET: 1726</b>					01	SCT	070	10.00		33	16	27	49	10	28	29.56	29.76
04	CLR	NC	10.00		29	-0	22	28	14	28	29.67	29.87					
07	FEW	300	10.00		21	1	16	41	0	00	29.74	29.94					
10	BKN	250	10.00		32	4	24	30	10	23	29.76	29.96					
13	BKN	200	10.00		37	1	27	22	6	22	29.68	29.88					
16	BKN	250	10.00		43	5	31	21	3	20	29.65	29.85					
19	FEW	250	10.00		36	14	29	40	8	15	29.65	29.85					
22	SCT	250	10.00		38	20	32	48	8	18	29.63	29.83					
<b>SUNRISE: 0717      JAN 27      SUNSET: 1728</b>					01	OVC	250	10.00		38	22	32	52	10	19	29.61	29.80
04	OVC	150	10.00		41	25	35	53	10	19	29.58	29.78					
07	OVC	210	10.00		38	26	33	62	10	20	29.57	29.77					
10	BKN	160	10.00		46	29	39	51	9	20	29.58	29.78					
13	BKN	110	10.00		60	32	47	35	8	24	29.56	29.75					
16	OVC	090	10.00		49	29	41	46	17	02	29.62	29.81					
19	SCT	130	10.00		34	13	27	42	14	02	29.80	30.00					
22	SCT	150	10.00		29	6	23	38	10	01	29.91	30.11					
<b>SUNRISE: 0716      JAN 28      SUNSET: 1729</b>					01	FEW	110	10.00		26	3	20	37	11	02	29.99	30.19
04	BKN	230	10.00		23	-0	18	36	15	36	30.08	30.28					
07	BKN	150	10.00		20	-3	15	36	14	01	30.17	30.37					
10	BKN	120	10.00		19	-10	14	27	15	01	30.23	30.43					
13	OVC	065	10.00		20	-11	14	24	11	35	30.19	30.40					
16	OVC	065	7.00	-SN	18	1	14	47	10	03	30.16	30.36					
19	OVC	022	2.00	-SN	15	10	14	80	7	02	30.14	30.34					
22	OVC	017	1.50	-SN	14	9	13	80	7	01	30.10	30.30					
<b>SUNRISE: 0715      JAN 29      SUNSET: 1730</b>					01	OVC	060	2.00	-SN	14	8	13	77	7	01	30.06	30.26
04	OVC	070	2.00	-SN	14	8	13	77	7	35	30.04	30.24					
07	OVC	210	10.00		13	6	11	74	8	35	30.08	30.28					
10	SCT	300	10.00		18	3	15	52	10	36	30.14	30.34					
13	SCT	300	10.00		21	3	17	45	5	VR	30.12	30.33					
16	BKN	300	10.00		24	6	19	46	6	27	30.10	30.30					
19	BKN	250	10.00		21	6	17	52	5	14	30.14	30.34					
22	OVC	250	10.00		18	6	15	59	5	17	30.16	30.37					
<b>SUNRISE: 0714      JAN 30      SUNSET: 1731</b>					01	FEW	250	10.00		13	4	11	67	0	00	30.20	30.40
04	CLR	NC	10.00		7	2	6	80	0	00	30.22	30.42					
07	FEW	250	9.00		5	-1	4	76	0	00	30.26	30.47					
10	FEW	250	10.00		24	5	19	44	8	09	30.29	30.49					
13	FEW	250	10.00		32	3	24	29	0	00	30.21	30.41					
16	FEW	250	10.00		35	7	27	31	0	00	30.14	30.34					
19	FEW	250	10.00		26	6	21	42	6	14	30.09	30.29					
22	CLR	NC	10.00		19	8	16	62	0	00	30.08	30.29					

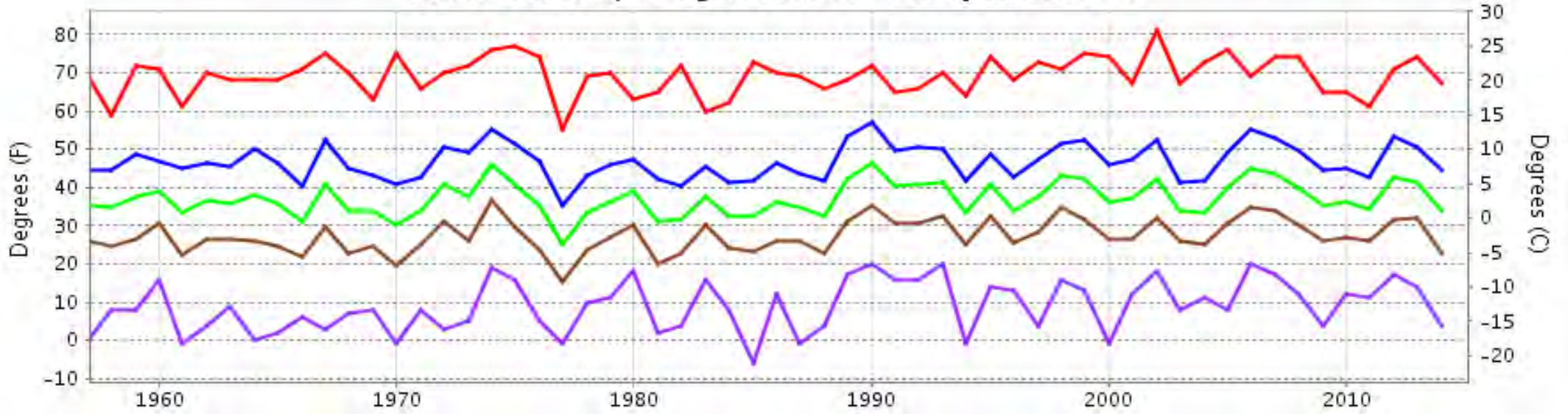
HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)						
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL					
<b>SUNRISE: 0714      JAN 31      SUNSET: 1732</b>					01	FEW	040	10.00		15	6	13	67	3	19	30.02	30.22
04	BKN	230	10.00		16	8	14	71	6	18	29.99	30.19					
07	SCT	300	10.00		19	9	16	65	6	22	29.97	30.17					
10	BKN	300	10.00		33	12	27	42	5	21	30.00	30.20					
13	BKN	300	10.00		47	14	35	26	0	00	29.96	30.16					
16	OVC	300	10.00		46	19	36	34	6	13	29.95	30.15					
19	SCT	250	10.00		38	17	31	43	5	10	30.00	30.19					
22	SCT	250	10.00		32	20	28	61	0	00	30.03	30.23					

**3-HOURLY OBSERVATION NOTES**  
 Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, W = Vertical Visibility = 8/8  
 Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.  
 & = Original observation contained additional weather elements.  
 See page 3 for additional notes.

## SUMMARY BY HOUR

HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)	
	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
					STATION	SEA LEVEL				
01	31	20	28	66	29.89	30.09	8.82	7	2	25
02	31	19	27	65	29.89	30.09	8.69	8	4	26
03	30	19	27	67	29.90	30.09	8.86	7	3	25
04	29	19	26	66	29.90	30.09	8.89	7	3	25
05	29	19	26	67	29.90	30.10	8.85	7	3	25
06	28	18	26	68	29.91	30.10	9.08	7	3	25
07	28	18	25	68	29.92	30.11	8.90	7	4	26
08	28	18	25	68	29.93	30.12	8.80	7	2	25
09	32	18	28	61	29.94	30.14	8.94	8	3	26
10	34	19	30	55	29.94	30.14	9.15	10	3	26
11	37	19	31	51	29.94	30.13	9.17	10	4	26
12	39	19	32	48	29.91	30.10	9.22	10	4	26
13	40	19	33	46	29.87	30.07	9.42	10	5	26
14	42	20	34	44	29.86	30.05	9.77	10	5	26
15	42	20	34	44	29.85	30.05	9.50	11	5	26
16	41	20	34	46	29.86	30.06	9.37	9	3	26
17	39	21	33	50	29.87	30.06	8.90	8	2	25
18	37	21	31	56	29.87	30.07	9.04	7	1	23
19	35	21	30	59	29.88	30.08	8.92	8	1	19
20	34	20	30	60	29.89	30.09	8.77	7	2	25
21	33	21	29	64	29.90	30.10	8.84	8	2	24
22	32	20	29	63	29.90	30.10	8.81	7	2	25
23	32	20	28	64	29.90	30.10	8.57	7	3	26
24	31	20	28	65	29.89	30.09	8.76	8	3	25

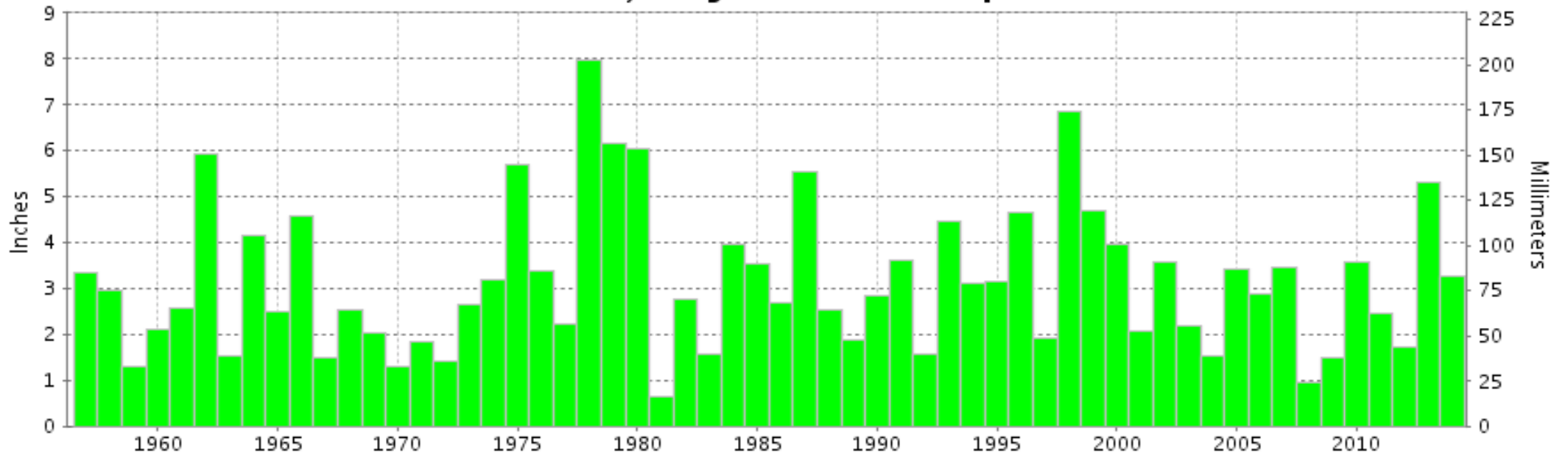
## RICHMOND, VA JANUARY Temperatures



— Extreme Max   
 — Mean Max   
 — Mean   
 — Mean Min   
 — Extreme Min

**Long-Term (1957-2014) Mean: 37.1**  
**1971-2000 Normal: 37.9**

## RICHMOND, VA JANUARY Precipitation



**Long-Term (1957-2014) Mean Monthly Total: 3.16**     
 **1971-2000 Normal: 3.04**





**JANUARY 2014  
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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