



# JANUARY 2012 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				
									DEPTH 11	WATER- EQUIV 12	SNOW- FALL 13	WATER EQUIV 14			SPEED 17	DIR 18	AVERAGE SPEED 19	SPEED 20	DIR 21	SPEED 22	DIR 23				
01	65	32	49	12	37	44	16	0	RA	0		0.0	T	29.83	30.00	6.4	20	8.3	28	17	22	21	01		
02	52	31	42	5	15	32	23	0		0		0.0	0.00	29.75	29.95	12.2	29	12.5	28	27	22	26	02		
03	35	23	29	-8	7	23	36	0		0		0.0	0.00	29.88	30.12	13.0	31	13.4	37	32	28	33	03		
04	38	17*	28*	-9	9	23	37	0	SN	0		T	T	30.05	30.22	5.3	20	6.7	21	24	15	24	04		
05	53	33	43	6	19	33	22	0		0		0.0	0.00	29.82	30.02	5.8	25	6.9	21	30	16	30	05		
06	68	31	50	14	26	40	15	0		0		0.0	0.00	29.78	29.96	8.3	21	8.8	23	23	20	22	06		
07	69	43	56	20	36	46	9	0		0		0.0	0.00	29.72	29.92	7.2	24	7.9	29	26	23	25	07		
08	56	34	45	9	28	38	20	0		0		0.0	0.00	30.01	30.24	2.4	03	3.3	15	05	13	05	08		
09	41	34	38	2	33	36	27	0	RA BR	0		0.0	0.19	30.04	30.22	2.9	03	4.1	14	31	10	03	09		
10	57	35	46	10	34	39	19	0	BR	0		0.0	0.00	29.85	30.05	4.3	27	4.7	16	31	13	31	10		
11	57	30	44	8	41	43	21	0	RA BR	0		0.0	0.68	29.72	29.86	5.7	11	6.1	23	13	18	13	11		
12	63	46	55	19	46	50	10	0	RA	0		0.0	0.02	29.34	29.53	11.7	21	12.8	29	24	23	24	12		
13	54	32	43	7	20	33	22	0	RA	0		0.0	T	29.52	29.77	17.9	26	19.2	43	26	33	24	13		
14	42	27	35	-1	16	28	30	0		0		0.0	0.00	29.89	30.11	6.7	27	7.8	22	27	16	28	14		
15	38	23	31	-5	12	25	34	0		0		0.0	0.00	30.16	30.41	6.8	36	7.4	25	35	21	36	15		
16	45	19	32	-4	19	29	33	0	RA	0		0.0	T	30.33	30.50	8.0	19	8.1	22	20	18	21	16		
17	62	42	52	16	42	49	13	0	RA	0		0.0	T	29.85	30.00	17.5	22	17.6	44*	23	35*	23	17		
18	61	29	45	9	24	38	20	0		0		0.0	0.00	29.79	30.03	10.6	33	14.1	33	32	26	31	18		
19	45	24	35	-1	17	29	30	0		0		0.0	0.00	29.96	30.14	3.4	20	7.2	22	21	17	22	19		
20	43	28	36	0	26	33	29	0	RA FZRA PL	0		T	0.10	29.96	30.18	3.2	08	6.2	22	18	16	18	20		
21	38	31	35	-1	32	33	30	0	RA DZ FZRA FG BR	0		0.0	0.37	29.85	30.05	6.6	36	7.8	26	02	21	36	21		
22	35	31	33	-3	30	32	32	0	RA DZ FZDZ BR	0		0.0	T	30.17	30.39	7.6	01	7.7	20	01	15	01	22		
23	52	33	43	7	39	40	22	0	RA DZ FG+ FG BR	0		0.0	0.02	29.98	30.14	3.4	23	6.0	22	24	17	23	23		
24	64	38	51	15	42	47	14	0	BR	0		0.0	0.00	29.88	30.09	5.3	25	5.8	29	24	21	23	24		
25	54	34	44	8	35	40	21	0	MIFG BCFG BR	0		0.0	0.00	30.09	30.29	2.1	11	4.6	22	03	16	04	25		
26	65	38	52	15	45	48	13	0	BR	0		0.0	0.00	29.88	30.03	6.5	16	6.8	21	19	14	18	26		
27	71*	43	57*	20	47	54	8	0	RA BR	0		0.0	0.35	29.49	29.70	7.8	24	14.4	37	29	28	28	27		
28	60	32	46	9	30	39	19	0		0		0.0	0.00	29.86	30.08	5.1	23	8.3	31	30	24	31	28		
29	52	29	41	4	12	32	24	0		0		0.0	0.00	30.06	30.25	6.1	24	8.1	24	23	18	23	29		
30	53	26	40	3	18	33	25	0		0		0.0	0.00	30.12	30.34	1.9	23	4.9	16	29	12	31	30		
31	69	39	54	17	26	42	11	0		0		0.0	0.00	30.06	30.25	11.2	21	11.5	24	21	20	22	31		
										<b>&lt; MONTHLY AVERAGES   TOTALS &gt;</b>				T	1.73	29.89	30.09	3.8	25	8.7	<b>&lt; MONTHLY AVERAGES</b>				
										<b>&lt;-----DEPARTURE FROM NORMAL-----&gt;</b>				-1.31	<b>SUNSHINE, CLOUD, &amp; VISIBILITY TABLES ON PAGE 3</b>										
<b>DEGREE DAYS</b>										<b>GREATEST 24-HR PRECIPITATION :</b> 0.70 <b>DATE :</b> 11-12				<b>SEA LEVEL PRESSURE</b>				<b>DATE TIME</b>							
<b>MONTHLY</b>										<b>GREATEST 24-HR SNOWFALL :</b> T <b>DATE :</b> 20+				<b>MAXIMUM :</b> 30.63				<b>16 0854</b>							
<b>TOTAL DEPARTURE</b>										<b>GREATEST SNOW DEPTH :</b> 0 <b>DATE :</b>				<b>MINIMUM :</b> 29.43				<b>13 0154</b>							
<b>SEASON TO DATE</b>										<b>NUMBER OF -&gt;</b>				<b>MAXIMUM TEMP &gt;= 90 :</b> 0				<b>MINIMUM TEMP &lt;= 32 :</b> 18				<b>PRECIPITATION &gt;= 0.01 INCH:</b> 7			
<b>HEATING :</b> 685 -157 1812 -532										<b>THUNDERSTORMS :</b> 0				<b>MAXIMUM TEMP &lt;= 32 :</b> 0				<b>MINIMUM TEMP &lt;= 0 :</b> 0				<b>PRECIPITATION &gt;= 0.10 INCH:</b> 5			
<b>COOLING :</b> 0 0 0 0														<b>HEAVY FOG :</b> 1				<b>SNOWFALL &gt;= 1.0 INCH :</b> 0							

**JANUARY 2012  
RICHMOND, VA**

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)  
JANUARY 2012

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	T	T	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04													04											T	04	T	T	
05													05												05	0.00	0.00	
06													06												06	0.00	0.00	
07													07												07	0.00	0.00	
08													08												08	0.00	0.00	
09													09	T	0.09	0.01		0.04	0.04	0.01				T	09	0.19	0.19	
10													10												10	0.00	0.00	
11													11	T	0.01	T	0.05	0.05	0.10	0.14	0.15	0.07	0.04	0.05	11	0.68	0.68	
12													12											T	12	0.02	0.02	
13													13												13	T	T	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16													16												16	T	T	
17													17	T	T										17	T	T	
18													18												18	0.00	0.00	
19													19												19	0.00	0.00	
20													20												20	0.10	0.10	
21													21												21	0.37	0.37	
22													22												22	T	T	
23													23												23	0.02	0.02	
24													24												24	0.00	0.00	
25													25												25	0.00	0.00	
26													26												26	0.00	0.00	
27													27												27	0.35	0.35	
28													28												28	0.00	0.00	
29													29												29	0.00	0.00	
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)	0.09	0.14	0.20	0.22	0.28	0.31	0.33	0.34	0.35	0.35	0.35	0.40
Ending Date	27	27	27	27	27	27	27	27	27	27	27	11
Ending Time (Hr/Min)	0751	0748	0753	0756	0753	0804	0820	0825	0850	0850	0850	2015

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.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

NORMALS ARE FOR THE YEARS 1971-2000

## 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	GL Glaze
VC In the Vicinity	UP Unkown Precipitation		

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

# RICHMOND, VA JANUARY 2012

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).

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. 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.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

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

### ADDITIONAL NOTES:

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

Date	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			Sky Cover	Satellite	Sky Cover	Satellite			
01							10.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							1.50	10.00	
10							0.50	10.00	
11							3.00	10.00	
12							9.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							7.00	10.00	
21							0.50	10.00	
22							2.00	10.00	
23							0.12	10.00	
24							6.00	10.00	
25							6.00	10.00	
26							2.50	10.00	
27							2.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							10.00	10.00	
MONTHLY AVGS							7.42	10.00	
<b>SUNSHINE (Minutes)</b>									
Total : 0					Possible : 18462				
Percent Possible : 0									
<b>NUMBER OF DAYS WITH : SKY CONDITION</b>									
Clear		Partly CLDY			Cloudy			Missing	
<b>MINIMUM VISIBILITY (MILES)</b>									
<= .25			<= 3.0				>= 7.0		
1			8				21		

# OBSERVATIONS AT 3-HOURLY INTERVALS

# RICHMOND, VA

## JANUARY 2012

## KRIC

## WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE			WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)							
			Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)		DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL					
														DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)
			SUNRISE: 0724			JAN 01			SUNSET: 1702									
01	CLR	NC			10.00				39	34	37	82	0	00	29.95	30.14		
04	CLR	NC			10.00				35	32	34	89	0	00	29.96	30.16		
07	CLR	NC			10.00				34	31	33	89	3	13	29.96	30.16		
10	SCT	250			10.00				48	39	44	71	13	17	29.93	30.13		
13	BKN	250			10.00				62	38	50	41	16	20	29.76	29.96		
16	BKN	250			10.00				64	38	51	38	17	17	29.62	29.81		
19	OVC	120			10.00				58	44	51	60	10	20	29.66	29.86		
22	SCT	100			10.00				55	47	51	75	8	23	29.67	29.86		
			SUNRISE: 0724			JAN 02			SUNSET: 1703									
01	FEW	100			10.00				50	26	40	39	14	28	29.71	29.90		
04	FEW	150			10.00				45	18	35	34	10	28	29.72	29.91		
07	SCT	070			10.00				40	15	31	36	13	30	29.77	29.96		
10	CLR	NC			10.00				43	10	32	26	14	28	29.81	30.00		
13	FEW	050			10.00				45	12	34	26	16	28	29.72	29.91		
16	BKN	070			10.00				43	13	33	29	18	28	29.73	29.92		
19	SCT	075			10.00				37	12	29	36	10	28	29.79	29.98		
22	SCT	100			10.00				32	16	27	52	5	30	29.80	30.00		
			SUNRISE: 0724			JAN 03			SUNSET: 1704									
01	SCT	120			10.00				31	15	26	51	9	30	29.79	29.98		
04	CLR	NC			10.00				27	14	23	58	8	31	29.80	30.00		
07	FEW	120			10.00				27	11	22	51	10	30	29.85	30.05		
10	FEW	050			10.00				33	9	26	36	20	32	29.89	30.09		
13	BKN	065			10.00				34	5	26	29	23	30	29.85	30.04		
16	BKN	080			10.00				32	3	24	29	16	31	29.90	30.10		
19	SCT	090			10.00				26	4	20	39	14	34	30.05	30.25		
22	CLR	NC			10.00				24	1	18	37	9	31	30.10	30.30		
			SUNRISE: 0724			JAN 04			SUNSET: 1704									
01	CLR	NC			10.00				22	2	17	42	8	29	30.10	30.30		
04	CLR	NC			10.00				19	5	16	54	6	03	30.12	30.32		
07	FEW	250			10.00				18	8	15	65	0	00	30.16	30.36		
10	OVC	250			10.00				26	7	21	44	7	20	30.17	30.37		
13	OVC	250			10.00				34	9	27	35	8	21	30.03	30.23		
16	OVC	250			10.00				37	10	29	33	11	20	29.93	30.13		
19	OVC	300			10.00				35	12	28	39	9	18	29.90	30.10		
22	OVC	095			10.00				37	11	29	34	10	20	29.86	30.06		
			SUNRISE: 0724			JAN 05			SUNSET: 1705									
01	BKN	100			10.00				36	14	29	40	6	21	29.81	30.01		
04	FEW	065			10.00				37	13	29	37	10	25	29.78	29.98		
07	BKN	180			10.00				36	15	29	42	6	25	29.80	30.00		
10	FEW	250			10.00				45	20	36	37	7	28	29.86	30.06		
13	BKN	250			10.00				51	20	39	29	11	28	29.80	30.00		
16	BKN	250			10.00				51	20	39	29	11	28	29.82	30.01		
19	OVC	300			10.00				41	23	34	49	3	20	29.84	30.04		
22	BKN	300			10.00				38	24	33	57	5	22	29.84	30.03		
			SUNRISE: 0724			JAN 06			SUNSET: 1706									
01	SCT	250			10.00				35	24	31	64	5	17	29.82	30.01		
04	CLR	NC			10.00				35	24	31	64	5	19	29.81	30.00		
07	SCT	250			10.00				34	24	30	67	7	21	29.81	30.01		
10	FEW	250			10.00				53	26	42	35	7	23	29.84	30.03		
13	FEW	250			10.00				65	25	47	22	15	23	29.74	29.93		
16	CLR	NC			10.00				67	26	49	21	9	21	29.70	29.89		
19	CLR	NC			10.00				57	27	44	32	11	21	29.73	29.93		
22	CLR	NC			10.00				49	29	41	46	10	21	29.73	29.92		
			SUNRISE: 0724			JAN 07			SUNSET: 1707									
01	SCT	250			10.00				48	29	40	48	9	22	29.69	29.88		
04	FEW	250			10.00				47	28	39	48	8	24	29.69	29.88		
07	BKN	250			10.00				46	26	38	46	8	24	29.71	29.90		
10	BKN	250			10.00				53	30	43	41	7	21	29.75	29.94		
13	BKN	250			10.00				67	43	54	42	16	24	29.69	29.88		
16	BKN	250			10.00				68	42	54	39	14	25	29.70	29.89		
19	BKN	300			10.00				60	43	51	54	5	25	29.76	29.96		
22	BKN	300			10.00				52	42	47	69	5	30	29.82	30.01		
			SUNRISE: 0724			JAN 08			SUNSET: 1708									
01	SCT	085			10.00				48	39	44	71	6	02	29.88	30.07		
04	SCT	250			10.00				45	27	38	49	8	02	29.95	30.14		
07	SCT	250			10.00				38	27	34	65	0	00	30.03	30.22		
10	BKN	250			10.00				49	28	40	44	6	07	30.10	30.29		
13	SCT	250			10.00				53	27	42	37	6	VR	30.07	30.26		
16	SCT	250			10.00				54	24	42	31	3	29	30.06	30.25		
19	BKN	300			10.00				38	28	34	67	0	00	30.10	30.29		
22	BKN	220			10.00				40	29	36	65	0	00	30.12	30.32		
			SUNRISE: 0724			JAN 09			SUNSET: 1709									
01	OVC	100			10.00				36	30	34	79	3	04	30.11	30.30		
04	OVC	070			10.00				38	29	34	70	7	05	30.11	30.31		
07	OVC	045			10.00				37	26	33	65	9	04	30.12	30.32		
10	OVC	042			10.00				39	28	35	65	3	07	30.10	30.30		
13	OVC	040			10.00				41	32	37	70	0	00	30.02	30.22		
16	OVC	038			10.00				40	37	39	89	3	02	29.97	30.17		
19	OVC	013			5.00	BR			38	36	37	93	0	00	29.93	30.13		
22	OVC	023			4.00	BR			38	38	38	100	3	20	29.89	30.08		
			SUNRISE: 0724			JAN 10			SUNSET: 1710									
01	OVC	005			2.50	BR			39	37	38	93	5	27	29.85	30.05		
04	OVC	005			3.00	BR			38	37	38	96	7	29	29.86	30.06		
07	OVC	003			2.50	BR			37	36	37	96	7	24	29.88	30.08		
10	BKN	250			6.00	BR			40	36	38	86	5	24	29.91	30.11		
13	BKN	250			10.00				53	34	44	49	7	28	29.84	30.03		
16	BKN	250			10.00				56	31	45	39	11	29	29.82	30.01		
19	BKN	250			10.00				42	33	38	71	0	00	29.83	30.03		
22	BKN	250			10.00				38	32	36	79	0	00	29.86	30.05		
			SUNRISE: 0724			JAN 11			SUNSET: 1711									
01	SCT	250			9.00				35	31	33	85	0	00	29.85	30.04		
04	SCT	250			10.00				32	29	31	89	0	00	29.83	30.03		
07	OVC	250			10.00				34	31	33	89	0	00	29.82	30.01		
10	OVC	090			5.00	-RA BR			40	37	39	89	3	13	29.82	30.02		
13	OVC	080			10.00				46	42	44	86	7	10	29.72	29.91		
16	OVC	018			4.00	-RA BR			48	45	47	89	9	08	29.62	29.81		
19	OVC	014			4.00	-RA BR			51	50	50	96	9	09	29.50	29.70		
22	OVC	050			7.00	-RA			56	55	55	96	14	13	29.37	29.56		
			SUNRISE: 0724			JAN 12			SUNSET: 1712									
01	OVC	030			10.00				57	55	56	93						

# OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

JANUARY 2012

KRIC

WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB			STATION	SEA LEVEL				Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB			STATION	SEA LEVEL		
SUNRISE: 0723 JAN 13 SUNSET: 1713														SUNRISE: 0721 JAN 19 SUNSET: 1719															
01	SCT	060			10.00		53	45	49	74	15	18	29.25	29.43	01	SCT	250			10.00		27	14	23	58	7	01	29.98	30.17
04	BKN	075			10.00		47	35	42	63	17	26	29.33	29.51	04	CLR	NC			10.00		26	14	22	60	6	02	29.99	30.19
07	FEW	080			10.00		38	16	30	41	24	25	29.48	29.67	07	FEW	200			10.00		24	14	21	66	5	35	30.03	30.23
10	SCT	050			10.00		38	15	30	39	25	25	29.58	29.78	10	CLR	NC			10.00		34	17	28	50	5	13	30.04	30.24
13	FEW	060			10.00		41	14	32	33	23	28	29.58	29.78	13	FEW	250			10.00		41	15	32	35	9	18	29.95	30.14
16	FEW	060			10.00		42	15	33	33	20	25	29.66	29.86	16	SCT	250			10.00		45	16	35	31	9	22	29.91	30.11
19	BKN	230			10.00		38	16	31	41	13	26	29.74	29.94	19	OVC	250			10.00		37	21	31	52	7	18	29.88	30.08
22	OVC	180			10.00		34	15	28	46	15	26	29.81	30.01	22	OVC	140			10.00		42	25	35	51	10	20	29.83	30.03
SUNRISE: 0723 JAN 14 SUNSET: 1714														SUNRISE: 0721 JAN 20 SUNSET: 1720															
01	OVC	160			10.00		32	15	27	49	13	29	29.80	30.00	01	BKN	140			10.00		39	26	34	60	6	21	29.85	30.04
04	SCT	300			10.00		30	15	25	54	11	28	29.86	30.06	04	FEW	150			10.00		33	26	30	75	6	21	29.84	30.04
07	FEW	130			10.00		28	15	24	58	7	25	29.92	30.12	07	SCT	250			10.00		30	25	28	82	0	00	29.93	30.13
10	CLR	NC			10.00		35	16	29	46	11	28	29.98	30.17	10	OVC	250			10.00		39	27	34	62	10	03	30.04	30.23
13	FEW	250			10.00		40	14	31	35	7	VR	29.91	30.11	13	OVC	250			10.00		41	26	35	55	3	09	30.03	30.22
16	OVC	250			10.00		41	14	32	33	9	26	29.89	30.09	16	OVC	250			10.00		43	26	36	51	3	07	30.03	30.23
19	OVC	095			10.00		39	16	31	39	5	23	29.94	30.14	19	OVC	110			10.00		39	26	34	60	10	11	30.06	30.26
22	SCT	250			10.00		29	19	26	66	0	00	29.95	30.15	22	OVC	080			10.00		35	23	31	62	0	00	30.07	30.27
SUNRISE: 0723 JAN 15 SUNSET: 1715														SUNRISE: 0720 JAN 21 SUNSET: 1721															
01	FEW	250			10.00		27	18	24	69	5	36	29.98	30.18	01	OVC	011			4.00	-FZRA BR	32	31	32	96	5	22	29.96	30.15
04	OVC	080			10.00		28	16	24	61	8	03	30.01	30.20	04	OVC	004			3.00	BR	33	32	33	96	6	02	29.83	30.03
07	BKN	120			10.00		26	16	23	66	6	35	30.11	30.31	07	OVC	002			0.50	-DZ FG	33	32	33	96	7	33	29.76	29.96
10	CLR	NC			10.00		33	13	27	44	15	36	30.23	30.43	10	OVC	075			2.00	-RA BR	36	35	36	96	5	26	29.77	29.96
13	CLR	NC			10.00		36	8	28	31	11	01	30.22	30.42	13	OVC	003			3.00		36	34	35	92	9	36	29.73	29.93
16	CLR	NC			10.00		37	8	28	30	11	36	30.28	30.48	16	OVC	009			4.00	-DZ BR	35	33	34	92	8	01	29.82	30.02
19	CLR	NC			10.00		31	9	25	40	0	00	30.34	30.53	19	OVC	075			10.00		34	30	32	85	11	36	29.93	30.13
22	CLR	NC			10.00		26	12	22	55	0	00	30.38	30.58	22	OVC	012			10.00		33	29	31	85	15	36	30.04	30.24
SUNRISE: 0722 JAN 16 SUNSET: 1716														SUNRISE: 0720 JAN 22 SUNSET: 1722															
01	CLR	NC			10.00		24	13	21	63	0	00	30.41	30.61	01	OVC	013			10.00		32	27	30	82	9	01	30.10	30.30
04	CLR	NC			10.00		21	15	19	78	0	00	30.39	30.59	04	OVC	009			5.00	BR	31	29	30	92	13	01	30.15	30.35
07	SCT	250			10.00		21	15	19	78	0	00	30.42	30.62	07	OVC	009			10.00		32	29	31	89	8	02	30.17	30.37
10	BKN	250			10.00		32	21	28	64	8	18	30.42	30.62	10	OVC	009			6.00	-FZDZ BR	32	29	31	89	7	02	30.25	30.45
13	BKN	250			10.00		41	18	33	40	14	21	30.32	30.52	13	OVC	009			10.00		34	30	32	85	7	02	30.22	30.42
16	SCT	250			10.00		45	20	36	37	11	18	30.23	30.43	16	OVC	007			5.00	-DZ BR	34	31	33	89	5	03	30.20	30.40
19	OVC	150			10.00		42	22	35	45	15	19	30.18	30.38	19	OVC	005			4.00	-RA BR	34	31	33	89	7	02	30.21	30.41
22	OVC	075			10.00		41	30	37	65	10	19	30.13	30.33	22	OVC	005			3.00	BR	33	31	32	92	6	36	30.19	30.39
SUNRISE: 0722 JAN 17 SUNSET: 1717														SUNRISE: 0719 JAN 23 SUNSET: 1723															
01	OVC	150			10.00		43	29	37	58	16	20	30.05	30.24	01	OVC	003			1.25	BR	33	32	33	96	3	36	30.14	30.34
04	OVC	140			10.00		47	33	41	58	14	20	29.98	30.17	04	OVC	007			0.25	FG	33	33	33	100	5	36	30.09	30.29
07	OVC	150			10.00		49	37	44	63	15	22	29.92	30.12	07	VV	002			0.12	FG	33	33	33	100	5	33	30.04	30.24
10	BKN	250			10.00		57	44	50	62	22	22	29.89	30.08	10	OVC	002			1.00	BR	35	35	35	100	0	00	30.03	30.22
13	OVC	110			10.00		59	45	52	60	20	22	29.77	29.96	13	OVC	004			1.50	BR	39	38	39	96	5	23	29.93	30.12
16	SCT	090			10.00		61	46	53	58	21	22	29.69	29.89	16	OVC	004			1.50	BR	42	41	42	96	7	20	29.84	30.03
19	BKN	100			10.00		60	47	53	62	16	21	29.66	29.85	19	VV	002			0.50	FG	44	43	44	96	3	21	29.81	30.01
22	OVC	200			10.00		60	49	54	67	17	22	29.62	29.81	22	OVC	004			2.00	-DZ BR	51	50	50	96	11	21	29.82	30.01
SUNRISE: 0722 JAN 18 SUNSET: 1718														SUNRISE: 0719 JAN 24 SUNSET: 1724															
01	OVC	025			10.00		61	51	56	70	16	22	29.59	29.79	01	OVC	014			10.00		53	50	51	90	17	23	29.80	30.00
04	OVC	090			10.00		60	49	54	67	14	28	29.61	29.80	04	OVC	170			10.00		51	48	49	90	8	23	29.83	30.02
07	BKN	100			10.00		49	27	40	43	17	34	29.75	29.94	07	OVC	008			10.00		48	45	47	89	9	25	29.87	30.07
10	SCT	100			10.00		48	21	38	34	13	33	29.87	30.06	10	BKN	006			9.00		49	46	48	89	3	30	29.93	30.13
13	SCT	200			10.00		48	18	37	30	17	32	29.86	30.05	13	SCT	250			10.00		60	43	51	54	5	27	29.88	30.07
16	SCT	200			10.00		44	15	34	31	20	35	29.90	30.09	16	BKN	250			10.00		64	36	50	36	8	26	29.87	30.06
19	SCT	220			10.00		36	14	29	40	10	02	29.96	30.16	19	SCT	250			10.00		52	38	45	59	0	00	29.95	30.14
22	OVC	220			10.00		33	14	27	46	10	01	29.98	30.17	22	FEW	250			10.00		44	37	41	77	0	00	29.99	30.19

# OBSERVATIONS AT 3-HOURLY INTERVALS

## RICHMOND, VA

### JANUARY 2012

### KRIC

### WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
			Observation Time (LST)	Eff Cl'd Amt Oktas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
		<b>SUNRISE: 0718</b>			<b>JAN 25</b>		<b>SUNSET: 1725</b>							
01	FEW	250			10.00		39	37	38	93	0	00	30.02	30.22
04	CLR	NC			6.00	BR	38	37	38	96	5	35	30.09	30.28
07	SCT	300			9.00	MIFG	37	35	36	93	0	00	30.12	30.32
10	SCT	300			10.00		44	34	40	68	11	05	30.20	30.40
13	BKN	250			10.00		50	34	43	54	5	12	30.13	30.33
16	SCT	250			10.00		52	35	44	53	6	17	30.06	30.26
19	BKN	170			10.00		47	37	43	68	8	14	30.06	30.26
22	BKN	170			10.00		43	34	39	71	3	14	30.05	30.24
		<b>SUNRISE: 0717</b>			<b>JAN 26</b>		<b>SUNSET: 1726</b>							
01	OVC	150			9.00		41	36	39	82	5	16	30.02	30.22
04	OVC	090			6.00	BR	40	37	39	89	0	00	29.99	30.18
07	BKN	250			5.00	BR	39	37	38	93	3	10	29.97	30.16
10	BKN	250			7.00		48	43	46	83	8	19	29.94	30.14
13	BKN	250			10.00		61	46	53	58	7	16	29.81	30.01
16	SCT	250			10.00		65	48	56	54	9	17	29.75	29.94
19	BKN	250			10.00		58	50	54	75	7	16	29.73	29.92
22	BKN	250			6.00	BR	56	53	54	90	8	14	29.65	29.84
		<b>SUNRISE: 0717</b>			<b>JAN 27</b>		<b>SUNSET: 1728</b>							
01	OVC	210			10.00		60	57	58	90	14	18	29.54	29.73
04	OVC	130			10.00		65	59	61	81	24	19	29.42	29.61
07	BKN	085			10.00		64	61	62	90	13	19	29.39	29.57
10	BKN	018			10.00		62	59	60	90	14	20	29.36	29.55
13	BKN	095			10.00		68	45	56	44	16	26	29.36	29.55
16	SCT	070			10.00		66	38	52	36	24	30	29.49	29.67
19	CLR	NC			10.00		55	33	45	43	14	33	29.67	29.86
22	CLR	NC			10.00		49	31	41	50	5	31	29.79	29.98
		<b>SUNRISE: 0716</b>			<b>JAN 28</b>		<b>SUNSET: 1729</b>							
01	CLR	NC			10.00		44	31	39	60	6	30	29.83	30.03
04	CLR	NC			10.00		36	31	34	82	0	00	29.87	30.06
07	FEW	250			10.00		34	28	32	79	0	00	29.90	30.10
10	FEW	080			10.00		45	31	39	58	10	16	29.92	30.11
13	CLR	NC			10.00		54	34	45	47	11	21	29.83	30.03
16	CLR	NC			10.00		59	29	46	32	14	25	29.80	30.00
19	BKN	065			10.00		53	33	44	47	9	24	29.86	30.06
22	CLR	NC			10.00		48	23	38	37	13	30	29.97	30.17
		<b>SUNRISE: 0715</b>			<b>JAN 29</b>		<b>SUNSET: 1730</b>							
01	CLR	NC			10.00		41	19	33	41	7	30	30.03	30.22
04	CLR	NC			10.00		39	10	30	30	7	32	30.07	30.26
07	FEW	200			10.00		32	17	27	54	0	00	30.13	30.32
10	FEW	200			10.00		44	14	34	30	7	30	30.14	30.34
13	FEW	180			10.00		49	8	35	19	9	23	30.09	30.28
16	CLR	NC			10.00		51	5	36	15	11	24	30.01	30.20
19	CLR	NC			10.00		39	13	30	34	8	20	30.01	30.21
22	CLR	NC			10.00		42	12	32	29	14	20	29.99	30.18
		<b>SUNRISE: 0714</b>			<b>JAN 30</b>		<b>SUNSET: 1731</b>							
01	BKN	090			10.00		42	13	32	31	10	24	30.01	30.20
04	CLR	NC			10.00		35	21	30	57	6	36	30.08	30.27
07	FEW	250			10.00		30	22	27	72	0	00	30.16	30.36
10	FEW	250			10.00		42	18	33	38	3	34	30.23	30.42
13	BKN	250			10.00		49	10	36	21	3	28	30.18	30.38
16	SCT	250			10.00		52	10	37	18	6	21	30.15	30.34
19	FEW	250			10.00		41	21	34	45	5	16	30.15	30.35
22	FEW	250			10.00		37	22	32	55	5	15	30.15	30.34

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
			Observation Time (LST)	Eff Cl'd Amt Oktas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
		<b>SUNRISE: 0714</b>			<b>JAN 31</b>		<b>SUNSET: 1732</b>							
01	FEW	300			10.00		41	24	35	51	11	20	30.12	30.31
04	CLR	NC			10.00		40	25	34	55	11	20	30.08	30.28
07	FEW	300			10.00		43	23	35	45	8	22	30.10	30.29
10	FEW	300			10.00		52	25	41	35	9	23	30.13	30.32
13	SCT	300			10.00		65	25	47	22	14	20	30.04	30.24
16	SCT	300			10.00		68	23	48	18	15	23	29.99	30.18
19	CLR	NC			10.00		54	29	43	38	10	19	30.01	30.21
22	CLR	NC			10.00		55	30	44	39	14	20	30.01	30.20

### 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.

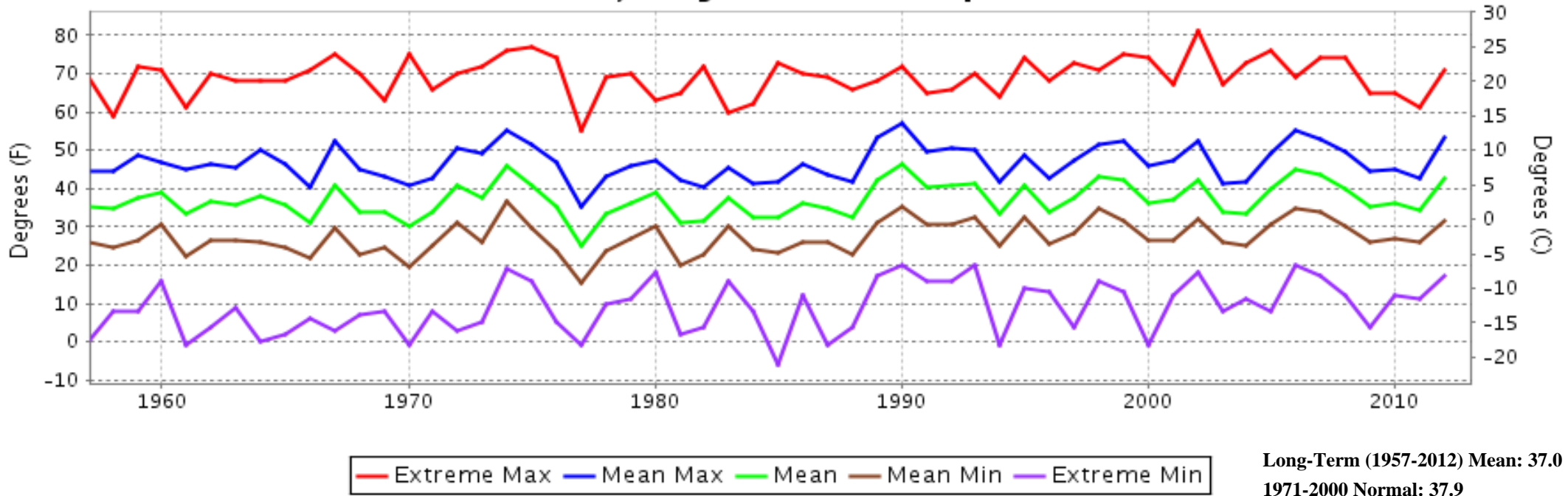
& = Original observation contained additional weather elements.

See page 3 for additional notes.

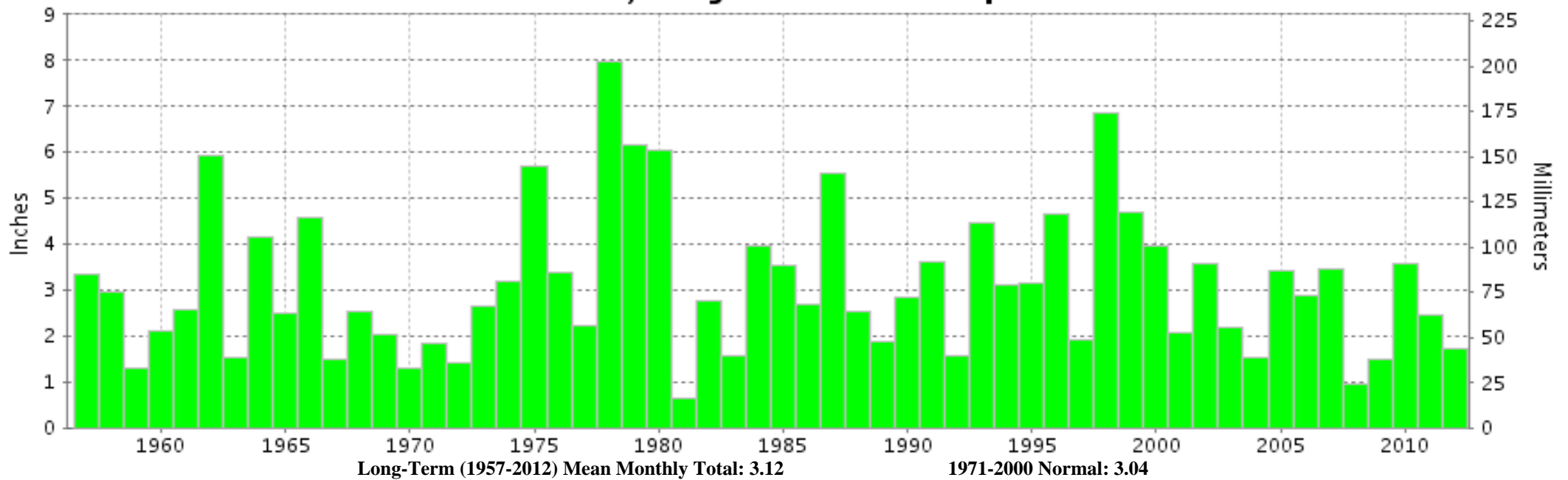
### SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			40	29	36	68	29.88	30.07	9.22	8	5	23
02			40	29	36	68	29.88	30.08	9.05	7	5	23
03			39	28	35	69	29.89	30.08	9.15	8	5	23
04			38	28	34	70	29.89	30.08	8.81	8	5	23
05			37	27	34	69	29.89	30.09	8.89	8	5	23
06			36	27	33	70	29.91	30.10	8.96	6	5	23
07			36	26	33	71	29.92	30.11	8.94	6	6	23
08			36	27	33	72	29.93	30.13	8.31	6	5	23
09			39	28	35	66	29.95	30.14	8.76	7	4	22
10			43	28	37	59	29.95	30.15	8.90	9	4	23
11			46	28	39	53	29.94	30.14	9.35	10	6	24
12			48	27	40	49	29.91	30.11	9.32	12	6	24
13			49	27	40	46	29.88	30.08	9.50	11	7	24
14			50	27	41	45	29.87	30.06	9.46	11	7	25
15			51	27	41	44	29.86	30.05	9.53	12	6	24
16			51	27	41	44	29.86	30.06	9.18	11	6	25
17			49	27	40	47	29.87	30.07	8.99	10	5	24
18			46	28	39	52	29.88	30.08	9.11	8	3	22
19			44	29	38	57	29.89	30.09	9.15	8	3	21
20			43	29	38	60	29.90	30.09	9.20	8	3	21
21			43	29	37	61	29.90	30.09	9.31	8	4	22
22			42	29	37	63	29.90	30.09	9.10	8	4	22
23			42	29	37	64	29.89	30.09	9.27	9	4	23
24			41	29	36	65	29.89	30.08	9.27	8	4	23

## RICHMOND, VA JANUARY Temperatures



## RICHMOND, VA JANUARY Precipitation





JANUARY 2012  
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.*



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