



MARCH 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	48	37	43	0	25	35	22	0			0.0	0.00	29.64	29.85	8.2	30	9.3	22	34	17	30	01		
02	40	33	37	-6	22	31	28	0			0.0	0.00	29.69	29.89	6.5	34	6.8	21	32	15	33	02		
03	46	26	36	-7	18	30	29	0			0.0	0.00	29.68	29.89	7.4	33	7.7	22	30	17	34	03		
04	49	27	38	-6	15	29	27	0			0.0	0.00	29.80	30.01	7.4	30	7.7	31	29	18	29	04		
05	50	24*	37	-7	24	33	28	0	RA BR		0.0	0.41	29.83	29.99	4.6	12	5.6	23	09	17	09	05		
06	43	33	38	-6	35	36	27	0	TS TSRA RA SN FG BR		1.5	2.10	29.41	29.63	17.0	35	20.5	48*	34	36*	34	06		
07	51	36	44	-1	27	36	21	0			0.0	0.00	29.89	30.10	13.9	33	14.4	38	33	30	32	07		
08	50	35	43	-2	26	36	22	0			0.0	0.00	29.99	30.20	16.1	33	16.3	39	33	30	33	08		
09	62	36	49	4	25	38	16	0			0.0	0.00	30.09	30.30	5.7	35	6.4	22	36	18	36	09		
10	64	29	47	2	25	39	18	0			0.0	0.00	30.11	30.30	4.7	15	5.0	16	12	13	13	10		
11	68	38	53	7	45	49	12	0	FG+ FG BR		0.0	0.00	29.95	30.11	8.1	16	8.4	26	15	18	16	11		
12	70	43	57	11	51	55	8	0	RA BR		0.0	0.79	29.65	29.84	2.7	15	12.1	30	16	17	16	12		
13	54	32	43	-4	26	37	22	0	RA		0.0	T	29.80	30.01	8.4	29	10.7	36	28	28	30	13		
14	52	31	42	-5	15	32	23	0			0.0	0.00	29.93	30.12	9.4	30	9.8	31	31	24	27	14		
15	60	27	44	-4	24	38	21	0			0.0	0.00	29.83	29.99	7.8	24	8.6	25	28	18	28	15		
16	71*	43	57*	9	44	49	8	0	TS TSRA RA BCFG BR		0.0	0.43	29.57	29.77	1.3	19	7.0	35	36	28	36	16		
17	45	35	40	-8	36	38	25	0	RA PL BR		T	0.20	29.91	30.14	5.3	05	5.8	24	07	12	02	17		
18	40	34	37	-11	35	36	28	0	RA DZ PL BR		T	0.53	29.98	30.13	4.4	04	6.3	17	06	14	31	18		
19	66	36	51	2	27	40	14	0	RA BR		0.0	T	29.65	29.85	8.4	27	10.3	39	27	29	25	19		
20	57	31	44	-5	13	35	21	0			0.0	0.00	29.77	29.94	8.1	25	10.0	28	26	21	25	20		
21	45	29	37	-12	17	30	28	0	SN BR		T	0.01	29.60	29.82	12.4	34	13.7	30	33	24	34	21		
22	51	27	39	-11	14	30	26	0			0.0	0.00	29.78	29.98	7.0	27	7.8	25	25	20	25	22		
23	56	27	42	-8	21	35	23	0			0.0	0.00	29.80	30.00	1.6	28	2.7	20	27	15	27	23		
24	42	33	38	-12	29	34	27	0	RA SN PL FG+ FG BR		3.8	0.58	29.65	29.82	7.0	05	7.4	22	07	15	05	24		
25	39	33	36*	-15	33	35	29	0	RA SN BR		0.1	0.19	29.40	29.61	6.7	30	7.7	29	31	21	30	25		
26	51	31	41	-10	27	36	24	0			0.0	0.00	29.68	29.91	8.2	30	8.8	25	33	20	33	26		
27	53	35	44	-8	24	36	21	0			0.0	0.00	29.90	30.11	10.5	30	10.8	31	32	24	32	27		
28	55	35	45	-7	24	37	20	0			0.0	0.00	29.98	30.18	9.9	31	10.4	28	31	22	31	28		
29	60	36	48	-4	27	39	17	0			0.0	0.00	30.06	30.24	4.1	31	5.3	24	02	17	29	29		
30	64	33	49	-4	28	41	16	0			0.0	0.00	29.99	30.18	0.5	27	4.9	22	29	16	29	30		
31	59	44	52	-1	45	48	13	0	RA MIFG BR HZ		0.0	0.33	29.75	29.92	4.6	17	6.4	20	14	15	14	31		

53.6	33.2	43.4	☼	27.3	37.2	21.4	0.0	< MONTHLY AVERAGES TOTALS >				5.4	5.57	29.80	29.99	4.4	31	8.9	< MONTHLY AVERAGES			
-6.4	-3.9	-5.2		-----DEPARTURE FROM NORMAL ----->										1.53	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3							

DEGREE DAYS				GREATEST 24-HR PRECIPITATION : 2.50 DATE : 05-06				SEA LEVEL PRESSURE											
MONTHLY				GREATEST 24-HR SNOWFALL : 3.8 DATE : 24				MAXIMUM : 30.35 DATE 10 TIME 1055											
TOTAL DEPARTURE				GREATEST SNOW DEPTH : 3 DATE : 25				MINIMUM : 29.41 DATE 06 TIME 0954											
SEASON TO DATE				NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 12				PRECIPITATION >= 0.01 INCH : 10			
HEATING : 664 148 3392 -60				MAXIMUM TEMP <= 32 : 0				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH : 9							
COOLING : 0 -6 1 -5				THUNDERSTORMS : 2				HEAVY FOG : 2				SNOWFALL >= 1.0 INCH : 2							

**MARCH 2013
RICHMOND, VA**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
MARCH 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													01												01	0.00	0.00	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04													04												04	0.00	0.00	
05													05					T	T	0.05	0.08	0.02	0.09	0.17	05	0.41	0.41	
06	0.10	0.07	0.06	0.04	0.03	0.02	0.48	0.23	0.23	0.19	0.17	0.08	06	0.10	0.18	0.05	0.02	0.02	0.01	0.01	0.01	T			06	2.10	2.10	
07													07												07	0.00	0.00	
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		T	0.03	0.09	0.11	0.01	0.01	0.07	0.14	0.18		12	0.15	T										12	0.79	0.79	
13													13		T	T									13	T	T	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16							0.01	0.09	T				16					0.22	0.11						16	0.43	0.43	
17							0.06	0.06	T	0.01	0.05	T	17	0.03	T	T	T	0.01	T	0.01	T	0.01	T	0.04	0.04	17	0.20	0.20
18	0.01	0.02	0.07	0.05	0.04	0.06	0.06	0.01	T	T	T		18	0.01	0.01	0.01	0.01	0.01	0.03	0.02	0.03	0.05	0.03	T		18	0.53	0.53
19	T												19													19	T	T
20													20													20	0.00	0.00
21							T	T	0.01	T			21													21	0.01	0.01
22													22													22	0.00	0.00
23													23													23	0.00	0.00
24												T	24	0.03	0.02	0.01	0.03	0.10	0.26	0.13	T			T	24	0.58	0.58	
25	0.01	0.01	0.02	0.06	0.01	0.02	0.01	T		T	T		25	T	0.01	0.02	0.01	0.01							25	0.19	0.19	
26													26													26	0.00	0.00
27													27													27	0.00	0.00
28													28													28	0.00	0.00
29													29													29	0.00	0.00
30													30													30	0.00	0.00
31									0.09	0.14	0.02	0.08	31													31	0.33	0.33

* 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)	0.12	0.20	0.26	0.29	0.39	0.50	0.57	0.64	0.71	0.76	0.87	1.03
Ending Date	06	06	06	06	06	06	06	06	06	06	06	06
Ending Time (Hr/Min)	0648	0648	0652	0657	0650	0704	0719	0737	0802	0822	0853	0922

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 1981-2010

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 MARCH 2013

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: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	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							4.00	10.00	
06							0.50	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							0.12	10.00	
12							2.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							1.25	10.00	
17							3.00	10.00	
18							1.50	8.00	
19							1.50	10.00	
20							10.00	10.00	
21							1.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							0.25	10.00	
25							1.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							1.00	10.00	
MONTHLY AVGS							6.68	9.94	
SUNSHINE (Minutes)									
Total : 0					Possible : 22283				
Percent Possible : 0									
NUMBER OF DAYS WITH :									
SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
MINIMUM VISIBILITY (MILES)									
<= .25		<= 3.0			>= 7.0				
2		11			19				

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

MARCH 2013

KRIC

WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0606 MAR 25 SUNSET: 1825														
01	OVC	014			2.00	-RA BR	33	32	33	96	3	04	29.41	29.60
04	OVC	020			1.50	-RASN BR	33	32	33	96	9	33	29.36	29.56
07	OVC	040			2.00	-SN BR	33	32	33	96	5	31	29.36	29.54
10	OVC	007			10.00		35	32	34	89	8	31	29.37	29.57
13	OVC	045			2.00	-SN BR	36	33	35	89	9	27	29.37	29.57
16	OVC	036			6.00	-RA BR	37	34	36	89	17	29	29.39	29.59
19	BKN	200			10.00		38	34	36	86	7	33	29.48	29.67
22	OVC	075			9.00		37	35	36	93	5	23	29.52	29.72
SUNRISE: 0604 MAR 26 SUNSET: 1826														
01	BKN	060			10.00		37	29	34	73	8	27	29.57	29.77
04	FEW	060			10.00		33	26	30	75	5	26	29.60	29.80
07	FEW	055			10.00		35	27	32	73	6	24	29.65	29.85
10	SCT	039			10.00		44	30	38	58	13	32	29.70	29.90
13	OVC	070			10.00		47	29	40	50	17	30	29.71	29.91
16	BKN	250			10.00		49	25	39	39	13	30	29.71	29.91
19	BKN	080			10.00		44	27	37	51	5	32	29.79	29.98
22	FEW	085			10.00		41	27	36	58	7	30	29.84	30.04
SUNRISE: 0603 MAR 27 SUNSET: 1827														
01	FEW	250			10.00		39	26	34	60	7	30	29.86	30.05
04	FEW	100			10.00		35	26	32	70	7	28	29.87	30.06
07	FEW	250			10.00		38	27	34	65	8	29	29.91	30.11
10	FEW	040			10.00		47	25	38	42	10	31	29.93	30.13
13	BKN	100			10.00		50	23	39	35	13	30	29.90	30.09
16	OVC	100			10.00		50	22	39	33	14	32	29.89	30.08
19	SCT	085			10.00		46	20	36	36	14	32	29.94	30.14
22	SCT	090			10.00		42	22	35	45	8	28	29.98	30.17
SUNRISE: 0601 MAR 28 SUNSET: 1828														
01	CLR	NC			10.00		40	23	34	51	8	30	29.97	30.16
04	FEW	090			10.00		36	24	32	62	7	28	29.95	30.15
07	BKN	100			10.00		38	24	33	57	7	29	29.97	30.17
10	BKN	250			10.00		49	25	39	39	15	31	29.98	30.18
13	BKN	120			10.00		53	25	41	34	15	31	29.96	30.15
16	OVC	100			10.00		52	23	40	32	11	33	29.96	30.15
19	BKN	080			10.00		48	25	39	41	11	33	30.02	30.22
22	FEW	070			10.00		44	25	37	47	5	30	30.07	30.26
SUNRISE: 0560 MAR 29 SUNSET: 1829														
01	BKN	070			10.00		39	26	34	60	5	31	30.08	30.28
04	BKN	065			10.00		39	26	34	60	0	00	30.07	30.27
07	BKN	065			10.00		42	28	36	58	5	32	30.10	30.30
10	SCT	250			10.00		52	27	42	38	14	28	30.09	30.29
13	BKN	070			10.00		55	25	43	31	14	31	30.04	30.23
16	BKN	090			10.00		57	25	44	29	5	VR	29.98	30.18
19	SCT	100			10.00		51	26	41	38	0	00	30.00	30.19
22	BKN	100			10.00		45	30	39	56	3	09	30.03	30.22
SUNRISE: 0558 MAR 30 SUNSET: 1830														
01	SCT	095			10.00		40	31	36	70	0	00	30.02	30.22
04	SCT	095			10.00		37	30	34	76	0	00	30.01	30.20
07	BKN	090			10.00		36	31	34	82	0	00	30.04	30.24
10	FEW	070			10.00		58	26	44	29	11	30	30.05	30.24
13	SCT	075			10.00		62	24	46	23	7	32	29.98	30.17
16	SCT	085			10.00		63	24	46	23	5	30	29.93	30.12
19	BKN	300			10.00		55	31	44	40	3	14	29.94	30.13
22	BKN	300			10.00		47	32	41	56	10	13	29.96	30.15

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0557 MAR 31 SUNSET: 1831														
01	BKN	220			10.00		45	31	39	58	9	14	29.92	30.12
04	OVC	180			10.00		45	33	40	63	6	14	29.87	30.06
07	OVC	150			10.00		47	38	43	71	8	13	29.83	30.03
10	OVC	075			6.00	-RA BR	49	47	48	93	14	12	29.76	29.95
13	OVC	005			1.50	BR	52	50	51	93	7	18	29.66	29.85
16	OVC	026			7.00		58	53	55	84	9	25	29.63	29.83
19	OVC	200			6.00	BR	54	51	52	90	3	18	29.59	29.78
22	BKN	220			8.00		53	51	52	93	0	00	29.62	29.81

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

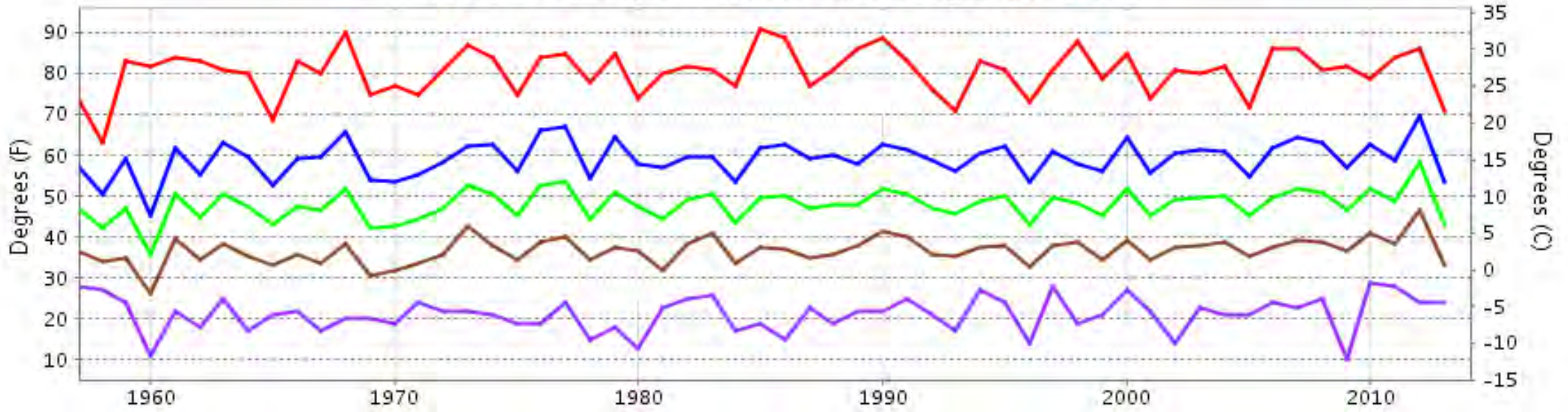
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

& = 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)		WIND SPEED (MPH)	DIRECTION		
							STATION	SEA LEVEL				
01			39	27	34	64	29.81	30.01	9.11	6	3	33
02			38	27	34	66	29.81	30.00	9.19	6	3	33
03			37	27	33	67	29.80	30.00	9.03	6	4	33
04			37	27	33	69	29.80	30.00	8.98	6	3	32
05			37	27	33	70	29.81	30.00	8.73	7	3	33
06			36	27	33	72	29.81	30.01	8.56	7	3	34
07			37	28	33	71	29.82	30.02	8.46	7	4	32
08			39	29	35	67	29.83	30.03	8.43	8	4	31
09			42	28	37	61	29.83	30.03	8.45	10	4	31
10			44	28	38	56	29.83	30.02	8.74	11	4	31
11			47	27	39	52	29.82	30.01	9.00	11	5	30
12			48	27	40	49	29.80	30.00	9.06	11	5	30
13			50	28	41	48	29.78	29.98	8.56	11	6	29
14			50	28	41	47	29.76	29.95	8.77	13	7	29
15			52	27	41	44	29.75	29.94	9.03	12	7	29
16			51	27	41	44	29.75	29.94	9.08	13	7	29
17			51	26	41	45	29.76	29.95	9.04	12	6	29
18			49	27	40	48	29.77	29.97	8.99	11	5	30
19			46	28	39	53	29.78	29.98	9.26	9	4	32
20			44	28	38	58	29.80	29.99	9.15	7	3	33
21			43	28	37	60	29.81	30.01	8.90	8	4	32
22			42	28	37	61	29.82	30.01	9.11	7	4	33
23			41	28	36	63	29.82	30.01	8.85	7	4	33
24			40	27	35	64	29.82	30.01	8.98	8	3	32

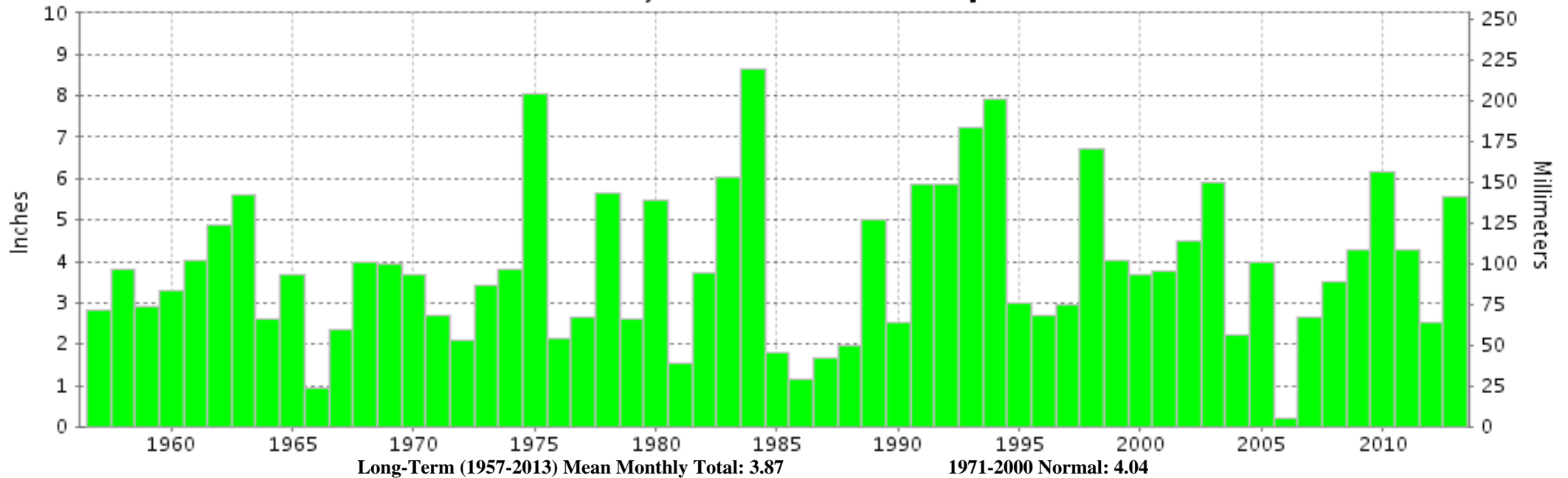
RICHMOND, VA MARCH Temperatures



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

Long-Term (1957-2013) Mean: 48.0
1971-2000 Normal: 48.6

RICHMOND, VA MARCH Precipitation



Long-Term (1957-2013) Mean Monthly Total: 3.87
 1971-2000 Normal: 4.04



**MARCH 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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