



MARCH 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	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			
									DEPTH 11	WATER- EQUIV 12	SNOW- FALL 13	WATER EQUIV 14			SPEED 20	DIR 21	SPEED 22	DIR 23						
01	75	48	62	19	44	54	3	0	RA	0		0.0	0.01	29.54	29.75	9.5	25	13.0	35	24	28	25	01	
02	58	41	50	7	43	46	15	0	TSRA RA DZ FG+ BR	0		0.0	0.33	29.77	29.94	5.0	11	6.0	22	32	20	31	02	
03	60	49	55	12	45	50	10	0	TS TSRA RA DZ FG+ FG BR	0		0.0	0.02	29.47	29.66	6.0	24	6.9	24	15	18	16	03	
04	53	37	45	1	28	39	20	0	RA	0		0.0	T	29.54	29.77	3.3	35	6.5	32	27	23	28	04	
05	42	29	36*	-8	28	33	29	0	RA SN FG BR	0		0.5	0.13	29.91	30.16	3.4	33	8.1	22	01	17	01	05	
06	50	24*	37	-7	23	32	28	0		0		0.0	0.00	30.41	30.63	3.2	17	4.5	18	19	14	18	06	
07	69	34	52	7	38	46	13	0		0		0.0	0.00	30.38	30.55	11.8	20	12.4	33	22	25	22	07	
08	75	50	63	18	48	55	2	0		0		0.0	0.00	30.11	30.26	14.0	21	14.3	37	21	28	21	08	
09	64	39	52	7	40	46	13	0	RA BR	0		0.0	0.36	29.96	30.17	2.1	01	8.1	29	20	22	20	09	
10	52	34	43	-2	19	34	22	0		0		0.0	0.00	30.29	30.51	5.2	02	7.3	23	01	18	36	10	
11	63	30	47	1	28	38	18	0		0		0.0	0.00	30.35	30.52	6.3	19	6.4	18	19	14	19	11	
12	73	40	57	11	42	50	8	0		0		0.0	0.00	30.14	30.31	10.5	20	11.0	29	19	23	19	12	
13	80	56	68	21	54	59	0	3	RA BR	0		0.0	0.22	29.95	30.13	10.2	21	10.6	23	22	18	22	13	
14	83	54	69	22	48	58	0	4		0		0.0	0.00	29.96	30.17	3.0	21	5.5	16	17	14	18	14	
15	86*	55	71	23	51	59	0	6	RA	0		0.0	T	30.00	30.19	8.5	21	9.2	31	21	25	21	15	
16	77	55	66	18	53	59	0	1	RA	0		0.0	T	29.96	30.16	0.9	12	4.3	13	03	10	04	16	
17	76	54	65	17	54	58	0	0		0		0.0	0.00	30.04	30.25	4.7	10	5.5	21	14	14	12	17	
18	72	53	63	15	54	56	2	0	FG BR	0		0.0	0.00	30.11	30.30	3.1	13	4.0	16	14	14	14	18	
19	77	52	65	16	56	59	0	0	BR	0		0.0	0.00	30.00	30.19	2.8	14	3.2	15	17	12	20	19	
20	80	56	68	19	59	61	0	3	TS TSRA RA FG+ BCFG BR	0		0.0	T	30.01	30.21	3.2	11	3.9	18	07	15	23	20	
21	80	57	69	20	60	62	0	4	TS TSRA GR RA FG+ BR	0		T	0.67	30.08	30.27	3.2	09	4.0	25	22	20	22	21	
22	81	58	70	20	61	64	0	5	FG+ BR	0		0.0	0.00	30.03	30.20	7.2	19	7.5	21	20	16	19	22	
23	85	58	72*	22	60	64	0	7	RA BCFG	0		0.0	T	29.86	30.03	1.7	16	3.5	17	04	14	04	23	
24	70	59	65	15	61	63	0	0	RA BR	0		0.0	0.61	29.72	29.89	4.4	18	5.7	24	24	20	23	24	
25	59	55	57	6	55	56	8	0	RA FG MIFG BR	0		0.0	0.01	29.59	29.77	5.5	36	5.8	18	02	14	02	25	
26	71	47	59	8	36	49	6	0	RA	0		0.0	T	29.70	29.93	15.3	35	15.7	33	36	26	36	26	
27	57	36	47	-5	18	36	18	0		0		0.0	0.00	30.11	30.31	4.7	36	6.8	26	36	21	36	27	
28	83	41	62	10	46	53	3	0	TS TSRA RA BR	0		0.0	0.12	29.79	29.93	11.8	21	12.4	51*	29	39*	31	28	
29	74	52	63	11	44	54	2	0		0		0.0	0.00	29.65	29.87	5.1	35	7.7	22	35	17	02	29	
30	67	43	55	2	44	49	10	0		0		0.0	0.00	29.84	30.01	3.9	12	5.7	20	12	16	13	30	
31	74	50	62	9	52	55	3	0	RA	0		0.0	0.03	29.60	29.79	4.2	03	6.2	29	06	20	07	31	

69.9			44.9			7.5		1.1		< MONTHLY AVERAGES TOTALS >				29.93		30.12		1.9		20		7.5		< MONTHLY AVERAGES			
9.9			9.5			9.7				DEPARTURE FROM NORMAL				-1.53		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS						GREATEST 24-HR PRECIPITATION : 0.67 DATE : 21						SEA LEVEL PRESSURE						DATE		TIME							
MONTHLY						GREATEST 24-HR SNOWFALL : 0.5 DATE : 05						MAXIMUM :						30.72		06		1054					
TOTAL DEPARTURE						GREATEST SNOW DEPTH : 0 DATE :						MINIMUM :						29.58		03		0454					
HEATING :		233		-283		2623		-954		NUMBER OF -> DAYS WITH		MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 3		PRECIPITATION >= 0.01 INCH : 11											
COOLING :		33		27		33		24		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH : 7													
										THUNDERSTORMS : 5		HEAVY FOG : 5		SNOWFALL >= 1.0 INCH : 0													

**MARCH 2012
RICHMOND, VA**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
MARCH 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				0.01									01												01	0.01	0.01	
02				0.01	T								02			0.01	0.08	0.03	0.03	0.18	T	T			02	0.33	0.33	
03	T	T	T	0.01	T		0.01	T					03												03	0.02	0.02	
04													04			T	T								04	T	T	
05							0.01	0.04	0.01	0.03	T	0.01	05	0.03	T										05	0.13	0.13	
06													06												06	0.00	0.00	
07													07												07	0.00	0.00	
08													08												08	0.00	0.00	
09	T	0.01	0.04	0.08	0.21	0.02	T	T					09												09	0.36	0.36	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12													12												12	0.00	0.00	
13	T	T	0.07	0.07	0.08	T							13												13	0.22	0.22	
14													14												14	0.00	0.00	
15													15												15	T	T	
16													16			T			T	T					16	T	T	
17													17												17	0.00	0.00	
18													18												18	0.00	0.00	
19													19												19	0.00	0.00	
20													20												20	T	T	
21													21						0.64	0.01	0.02				21	0.67	0.67	
22													22												22	0.00	0.00	
23													23					T	T						23	T	T	
24							T	0.02	0.12	0.12	0.04		24	0.12	T										24	0.61	0.61	
25											T	0.01	25	T											25	0.01	0.01	
26	T	T											26												26	T	T	
27													27												27	0.00	0.00	
28													28							0.12					28	0.12	0.12	
29													29												29	0.00	0.00	
30													30												30	0.00	0.00	
31				T	0.01					0.01	0.01		31				T	T							31	0.03	0.03	

* 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)	0.26	0.39	0.49	0.59	0.64	0.64	0.64	0.65	0.66	0.67	0.67	0.67
Ending Date	21	21	21	21	21	21	21	21	21	21	21	21
Ending Time (Hr/Min)	1833	1837	1843	1846	1852	1852	1852	1929	2004	2008	2008	2008

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 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:MMTS, 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							0.25	10.00	
03							0.25	10.00	
04							10.00	10.00	
05							0.50	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							2.50	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							6.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							7.00	10.00	
18							0.50	10.00	
19							6.00	10.00	
20							0.00	10.00	
21							0.12	10.00	
22							0.12	10.00	
23							9.00	10.00	
24							4.00	10.00	
25							0.50	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							7.00	10.00	
MONTHLY AVGS							6.57	10.00	
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		
5			9				19		

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

MARCH 2012

KRIC

WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			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 SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)					
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION				SEA LEVEL	Observation Time (LST)			Eff Cld Amt Oktas	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL		
			SUNRISE: 0641 MAR 01 SUNSET: 1803																										
01	BKN	150			10.00		61	58	59	90	10	21	29.53	29.72	01	CLR	NC			10.00		39	29	35	67	11	19	30.45	30.65
04	SCT	090			10.00		62	59	60	90	15	22	29.50	29.69	04	CLR	NC			10.00		37	30	34	76	10	19	30.42	30.61
07	FEW	025			10.00		59	56	57	90	11	22	29.52	29.70	07	FEW	250			10.00		36	31	34	82	5	19	30.44	30.63
10	FEW	030			10.00		68	52	59	57	15	25	29.54	29.73	10	BKN	250			10.00		53	37	46	55	14	22	30.44	30.64
13	FEW	050			10.00		73	40	56	30	28	25	29.52	29.70	13	BKN	250			10.00		65	44	54	47	20	21	30.37	30.56
16	CLR	NC			10.00		74	28	52	18	22	27	29.52	29.69	16	SCT	250			10.00		68	41	54	38	15	22	30.28	30.47
19	CLR	NC			10.00		67	25	48	20	8	28	29.59	29.78	19	SCT	250			10.00		60	43	51	54	11	18	30.27	30.47
22	FEW	250			10.00		55	41	48	59	10	05	29.72	29.91	22	FEW	250			10.00		57	44	50	62	11	18	30.27	30.46
SUNRISE: 0640 MAR 02 SUNSET: 1804																													
01	CLR	NC			10.00		47	41	44	80	5	08	29.80	30.00	01	FEW	200			10.00		54	47	50	77	11	19	30.25	30.44
04	CLR	NC			10.00		44	41	43	89	0	00	29.83	30.02	04	SCT	060			10.00		51	47	49	86	9	19	30.21	30.40
07	SCT	250			5.00	BR	42	40	41	93	5	06	29.86	30.05	07	BKN	065			10.00		53	49	51	86	9	20	30.21	30.40
10	SCT	250			10.00		51	35	44	54	9	12	29.88	30.07	10	OVC	250			10.00		64	51	57	63	15	20	30.15	30.35
13	OVC	250			10.00		56	39	48	53	13	14	29.77	29.97	13	OVC	250			10.00		71	45	57	39	21	22	30.05	30.24
16	OVC	025			3.00	RA BR	50	46	48	86	5	12	29.74	29.94	16	OVC	250			10.00		73	44	57	35	15	22	29.97	30.16
19	OVC	014			4.00	-DZ BR	48	47	48	96	7	11	29.65	29.85	19	OVC	300			10.00		65	46	55	50	10	19	29.93	30.12
22	OVC	003			2.50	BR	49	48	48	96	3	17	29.56	29.75	22	OVC	300			10.00		65	48	56	54	15	21	29.90	30.09
SUNRISE: 0638 MAR 03 SUNSET: 1805																													
01	VV	002			0.50	-DZ FG	50	48	49	93	0	00	29.49	29.68	01	OVC	070			10.00	-RA	63	54	58	73	13	21	29.88	30.07
04	OVC	022			0.50	-RA FG	50	49	49	96	6	16	29.41	29.60	04	OVC	010			2.50	RA BR	59	57	58	93	5	32	29.85	30.04
07	OVC	100			10.00	-TSRA	56	55	55	96	13	26	29.41	29.61	07	OVC	055			10.00		51	49	50	93	10	02	29.91	30.11
10	OVC	045			10.00		56	53	54	90	11	24	29.45	29.65	10	OVC	200			10.00		50	38	44	64	15	02	30.00	30.19
13	OVC	200			10.00		59	49	54	70	8	27	29.47	29.65	13	OVC	200			10.00		52	29	42	41	5	04	30.00	30.19
16	BKN	250			10.00		59	40	50	50	11	27	29.49	29.68	16	BKN	250			10.00		56	29	44	36	3	24	29.98	30.17
19	BKN	300			10.00		56	35	46	45	8	23	29.53	29.72	19	FEW	300			10.00		49	33	42	54	5	15	30.02	30.21
22	OVC	140			10.00		52	37	45	57	3	22	29.53	29.72	22	CLR	NC			10.00		42	35	39	76	6	12	30.12	30.31
SUNRISE: 0637 MAR 04 SUNSET: 1806																													
01	OVC	130			10.00		51	34	43	52	0	00	29.53	29.72	01	CLR	NC			10.00		41	27	36	58	13	01	30.17	30.36
04	OVC	095			10.00		49	32	42	52	6	VR	29.52	29.70	04	CLR	NC			10.00		37	22	32	55	7	36	30.21	30.41
07	OVC	130			10.00		47	28	39	48	7	03	29.50	29.69	07	CLR	NC			10.00		35	20	30	54	11	02	30.30	30.50
10	BKN	130			10.00		46	29	39	52	10	02	29.54	29.74	10	SCT	250			10.00		43	17	34	35	15	02	30.38	30.57
13	OVC	085			10.00		50	29	41	44	0	00	29.52	29.70	13	FEW	250			10.00		48	14	36	25	10	03	30.35	30.54
16	OVC	080			10.00		48	29	40	48	0	00	29.52	29.70	16	FEW	250			10.00		51	12	37	21	0	00	30.33	30.53
19	BKN	070			10.00		45	19	35	35	14	29	29.65	29.84	19	CLR	NC			10.00		44	20	35	38	0	00	30.34	30.54
22	CLR	NC			10.00		40	18	32	41	9	28	29.73	29.93	22	CLR	NC			10.00		36	25	32	64	6	13	30.36	30.56
SUNRISE: 0635 MAR 05 SUNSET: 1807																													
01	CLR	NC			10.00		37	19	31	48	8	25	29.80	30.00	01	CLR	NC			10.00		34	27	31	76	3	19	30.38	30.58
04	CLR	NC			10.00		29	22	27	75	6	21	29.79	29.99	04	FEW	300			10.00		34	26	31	73	0	00	30.37	30.56
07	OVC	018			0.75	-SN BR	33	27	31	79	5	20	29.84	30.04	07	FEW	300			10.00		30	26	29	85	0	00	30.41	30.60
10	OVC	014			1.25	-SN BR	34	32	33	92	11	08	29.78	29.98	10	CLR	NC			10.00		47	26	39	44	10	20	30.42	30.62
13	OVC	012			1.00	-SN BR	34	32	33	92	13	36	29.90	30.09	13	CLR	NC			10.00		57	28	44	33	10	19	30.35	30.55
16	BKN	045			10.00		41	32	37	70	8	32	30.02	30.22	16	FEW	300			10.00		63	28	47	27	14	19	30.27	30.46
19	SCT	080			10.00		38	30	35	73	3	28	30.13	30.33	19	SCT	300			10.00		53	29	43	40	7	17	30.25	30.44
22	FEW	080			10.00		35	26	32	70	5	33	30.25	30.45	22	FEW	300			10.00		46	30	39	54	9	20	30.24	30.44
SUNRISE: 0634 MAR 06 SUNSET: 1808																													
01	CLR	NC			10.00		31	24	29	75	0	00	30.32	30.52	01	SCT	200			10.00		46	29	39	52	3	17	30.23	30.42
04	CLR	NC			10.00		25	21	24	85	0	00	30.37	30.57	04	SCT	250			10.00		42	28	36	58	6	19	30.19	30.38
07	FEW	250			10.00		25	22	24	88	0	00	30.46	30.66	07	BKN	250			10.00		40	32	37	73	6	18	30.20	30.39
10	CLR	NC			10.00		39	22	33	51	3	01	30.52	30.72	10	OVC	250			10.00		62	44	53	52	13	23	30.20	30.39
13	CLR	NC			10.00		45	18	35	34	3	VR	30.47	30.67	13	BKN	250			10.00		71	48	58	44	18	20	30.11	30.30
16	CLR	NC			10.00		50	21	39	32	9	17	30.41	30.61	16	OVC	250			10.00		72	48	59	43	17	20	30.04	30.23
19	FEW	300			10.00		44	25	37	47	6	17	30.41	30.61	19	OVC	250			10.00		64	49	56	58	9	20	30.03	30.22
22	CLR	NC			10.00		41	25	35	53	7	17	30.45	30.65	22	OVC	250			10.00		62	49	55	63	9	20	30.02	30.22

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

MARCH 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)		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		Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL	
																												WEATHER
SUNRISE: 0624						MAR 13						SUNSET: 1814																
01	OVC	100			10.00	-RA	60	50	55	70	11	19	30.00	30.19	01	SCT	300			10.00	54	52	53	93	0	00	30.03	30.22
04	OVC	080			6.00	-RA BR	56	54	55	93	11	21	29.99	30.18	04	OVC	120			10.00	53	51	52	93	0	00	30.01	30.20
07	BKN	250			10.00		56	54	55	93	10	20	29.98	30.18	07	SCT	100			6.00	54	53	53	96	6	13	30.03	30.22
10	SCT	250			10.00		67	56	61	68	13	22	29.98	30.17	10	OVC	046			10.00	65	57	60	75	7	20	30.04	30.23
13	SCT	250			10.00		77	56	64	48	11	25	29.92	30.11	13	BKN	250			10.00	72	58	64	62	7	16	29.99	30.18
16	SCT	250			10.00		79	52	63	39	7	23	29.86	30.05	16	BKN	250			10.00	76	57	65	52	7	15	29.94	30.13
19	SCT	250			10.00		67	53	59	61	7	20	29.87	30.06	19	FEW	250			10.00	69	58	62	68	7	09	29.95	30.15
22	SCT	250			10.00		65	57	60	75	9	20	29.91	30.10	22	SCT	250			10.00	63	59	61	87	5	13	30.00	30.19
SUNRISE: 0622						MAR 14						SUNSET: 1815																
01	CLR	NC			10.00		66	57	61	73	8	25	29.92	30.11	01	FEW	140			10.00	58	57	57	97	0	00	29.99	30.18
04	CLR	NC			10.00		62	55	58	78	3	27	29.92	30.11	04	VV	002			0.12	57	56	56	96	0	00	29.99	30.18
07	FEW	250			10.00		56	53	54	90	0	00	29.97	30.16	07	VV	002			0.12	56	56	56	100	0	00	30.03	30.23
10	FEW	250			10.00		76	52	62	43	3	32	30.03	30.22	10	OVC	250			10.00	66	61	63	84	0	00	30.07	30.26
13	BKN	250			10.00		80	41	59	25	5	25	30.00	30.19	13	BKN	080			10.00	75	61	66	62	5	VR	30.02	30.21
16	SCT	300			10.00		83	35	58	18	3	30	29.96	30.15	16	BKN	250			10.00	78	60	67	54	5	10	29.97	30.16
19	FEW	300			10.00		72	42	56	34	9	15	29.98	30.18	19	BKN	250			10.00	69	61	64	76	11	12	30.02	30.21
22	CLR	NC			10.00		66	48	56	52	10	17	30.03	30.22	22	BKN	095			10.00	64	59	61	84	6	12	30.05	30.24
SUNRISE: 0621						MAR 15						SUNSET: 1816																
01	CLR	NC			10.00		61	48	54	63	9	19	30.02	30.21	01	BKN	095			10.00	60	58	59	93	5	07	30.06	30.25
04	CLR	NC			10.00		58	51	54	78	6	20	30.01	30.20	04	VV	002			0.25	58	58	58	100	3	04	30.06	30.25
07	SCT	250			10.00		56	52	54	87	0	00	30.03	30.22	07	VV	002			0.12	58	58	58	100	3	03	30.09	30.29
10	OVC	250			10.00		74	54	62	50	8	22	30.05	30.24	10	BKN	006			10.00	64	60	62	87	0	00	30.14	30.33
13	BKN	250			10.00		82	50	63	33	14	24	29.99	30.18	13	BKN	250			10.00	75	60	66	60	0	00	30.10	30.29
16	BKN	300			10.00		84	48	63	29	18	24	29.94	30.13	16	SCT	250			10.00	77	60	66	56	8	08	30.03	30.22
19	OVC	300			10.00		73	52	61	48	10	18	29.96	30.15	19	BKN	100			5.00	65	63	64	93	8	09	30.07	30.27
22	BKN	300			10.00		62	52	56	70	7	20	29.98	30.17	22	BKN	250			5.00	63	62	62	97	3	10	30.10	30.29
SUNRISE: 0619						MAR 16						SUNSET: 1817																
01	BKN	110			10.00		63	52	57	68	7	17	29.97	30.16	01	SCT	100			2.00	60	59	59	97	6	12	30.08	30.27
04	SCT	150			10.00		60	52	56	75	7	22	29.94	30.13	04	VV	002			0.12	61	61	61	100	3	18	30.05	30.24
07	OVC	250			10.00		59	53	56	81	0	00	29.99	30.17	07	OVC	110			1.50	61	61	61	100	6	17	30.09	30.28
10	OVC	250			10.00		66	52	58	61	0	00	30.00	30.19	10	OVC	007			8.00	66	63	64	90	9	20	30.07	30.26
13	OVC	250			10.00		73	51	60	46	0	00	29.96	30.15	13	SCT	032			10.00	77	63	68	62	9	21	30.00	30.19
16	BKN	140			10.00		75	52	62	45	9	02	29.92	30.11	16	SCT	045			10.00	80	60	67	51	9	21	29.93	30.12
19	OVC	160			10.00	-RA	67	55	60	66	7	03	29.96	30.15	19	SCT	250			10.00	71	59	64	66	7	17	29.93	30.12
22	OVC	065			10.00	-RA	63	56	59	78	7	12	30.01	30.20	22	SCT	250			10.00	67	59	62	76	7	18	29.95	30.14
SUNRISE: 0618						MAR 17						SUNSET: 1818																
01	OVC	250			10.00		61	55	58	81	0	00	29.99	30.18	01	FEW	300			10.00	66	60	62	81	8	22	29.93	30.12
04	BKN	090			10.00		59	55	57	87	0	00	30.00	30.19	04	FEW	300			10.00	61	59	60	93	6	20	29.89	30.08
07	BKN	200			7.00		57	54	55	90	3	03	30.05	30.24	07	SCT	300			9.00	60	59	59	97	0	00	29.91	30.10
10	BKN	250			10.00		70	55	61	59	7	07	30.09	30.28	10	SCT	250			10.00	74	62	67	66	0	00	29.91	30.09
13	BKN	200			10.00		74	54	62	50	6	10	30.07	30.26	13	OVC	250			10.00	82	61	69	49	0	00	29.84	30.03
16	BKN	240			10.00		74	55	63	52	8	15	30.04	30.23	16	BKN	250			10.00	84	57	67	40	0	00	29.77	29.96
19	SCT	230			10.00		65	54	59	68	7	10	30.06	30.26	19	BKN	250			10.00	73	60	65	64	11	06	29.77	29.96
22	FEW	250			10.00		57	52	54	83	6	10	30.11	30.31	22	SCT	250			10.00	67	61	63	81	5	13	29.78	29.97
SUNRISE: 0616						MAR 18						SUNSET: 1819																
01	OVC	006			10.00		53	51	52	93	9	13	30.13	30.33	01	SCT	250			10.00	66	60	62	81	6	15	29.75	29.94
04	OVC	006			8.00		53	51	52	93	3	12	30.13	30.32	04	BKN	200			10.00	63	59	61	87	5	20	29.73	29.92
07	OVC	002			0.50	FG	53	53	53	100	0	00	30.16	30.35	07	BKN	250			10.00	65	60	62	84	8	23	29.75	29.94
10	OVC	008			6.00	BR	56	53	54	90	0	00	30.18	30.37	10	OVC	090			4.00	64	63	63	97	3	17	29.77	29.96
13	BKN	016			10.00		64	55	59	73	0	00	30.14	30.33	13	OVC	080			5.00	65	64	64	97	7	16	29.71	29.90
16	BKN	300			10.00		70	57	62	64	5	15	30.06	30.25	16	BKN	150			10.00	69	61	64	76	8	15	29.66	29.85
19	BKN	300			10.00		68	57	62	68	9	15	30.04	30.23	19	OVC	200			10.00	66	62	64	87	5	12	29.65	29.83
22	BKN	030			10.00		60	55	57	84	3	14	30.06	30.25	22	OVC	060			8.00	64	62	63	93	7	13	29.63	29.83

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

MARCH 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
SUNRISE: 0606 MAR 25 SUNSET: 1825													
01	BKN	140				57	56	56	96	0	00	29.59	29.78
04	OVC	004			BR	57	57	57	100	0	00	29.55	29.74
07	OVC	011			BR	59	57	58	93	6	36	29.58	29.77
10	OVC	008			BR	57	56	56	96	10	01	29.59	29.78
13	OVC	012				58	56	57	93	9	36	29.58	29.78
16	OVC	006			BR	57	54	55	90	8	35	29.57	29.76
19	OVC	016				58	54	56	87	7	01	29.58	29.77
22	OVC	120				57	54	55	90	3	35	29.60	29.79
SUNRISE: 0604 MAR 26 SUNSET: 1826													
01	OVC	110			-RA	57	54	55	90	7	34	29.58	29.78
04	OVC	043				61	53	57	75	10	35	29.60	29.79
07	FEW	250				58	49	53	72	10	35	29.66	29.85
10	CLR	NC				66	39	52	37	15	34	29.70	29.89
13	CLR	NC				70	30	51	23	18	32	29.71	29.90
16	CLR	NC				66	27	48	23	21	35	29.74	29.93
19	CLR	NC				56	26	43	32	15	01	29.83	30.02
22	CLR	NC				50	19	38	29	13	36	29.96	30.15
SUNRISE: 0603 MAR 27 SUNSET: 1827													
01	CLR	NC				44	16	34	32	15	36	30.05	30.24
04	CLR	NC				39	14	31	36	11	35	30.11	30.30
07	CLR	NC				37	15	30	41	11	36	30.16	30.36
10	CLR	NC				45	16	35	31	9	03	30.18	30.37
13	FEW	250				52	14	38	22	5	VR	30.15	30.35
16	SCT	250				55	17	40	22	3	17	30.10	30.29
19	BKN	250				49	27	40	43	5	14	30.07	30.27
22	SCT	250				45	29	38	54	3	18	30.07	30.27
SUNRISE: 0601 MAR 28 SUNSET: 1828													
01	SCT	300				42	30	37	63	8	17	30.03	30.23
04	FEW	300				45	30	39	56	11	20	29.94	30.13
07	BKN	300				45	37	41	74	9	20	29.92	30.11
10	BKN	240				61	44	52	54	15	22	29.80	29.99
13	SCT	250				76	50	61	40	20	22	29.65	29.84
16	BKN	250				81	51	63	35	20	23	29.56	29.75
19	OVC	200				77	54	63	45	9	24	29.56	29.75
22	OVC	250				60	58	59	93	3	18	29.57	29.77
SUNRISE: 0560 MAR 29 SUNSET: 1829													
01	FEW	300				63	56	59	78	8	25	29.55	29.74
04	CLR	NC				61	50	55	67	6	30	29.57	29.76
07	CLR	NC				57	50	53	78	3	10	29.62	29.81
10	FEW	250				69	43	55	39	9	02	29.67	29.85
13	FEW	250				72	44	57	37	10	36	29.69	29.88
16	FEW	250				74	40	56	29	8	34	29.68	29.86
19	SCT	250				64	39	52	40	8	04	29.73	29.92
22	SCT	250				56	38	47	51	3	06	29.83	30.02
SUNRISE: 0558 MAR 30 SUNSET: 1830													
01	BKN	300				51	39	45	64	0	00	29.86	30.05
04	SCT	300				44	39	42	83	0	00	29.87	30.06
07	FEW	300				46	40	43	80	6	05	29.90	30.10
10	SCT	300				57	42	50	57	0	00	29.92	30.12
13	OVC	300				63	45	54	52	7	20	29.85	30.04
16	SCT	250				66	48	56	52	10	19	29.75	29.94
19	SCT	250				58	46	52	65	11	14	29.75	29.94
22	FEW	250				51	46	48	83	6	12	29.70	29.89

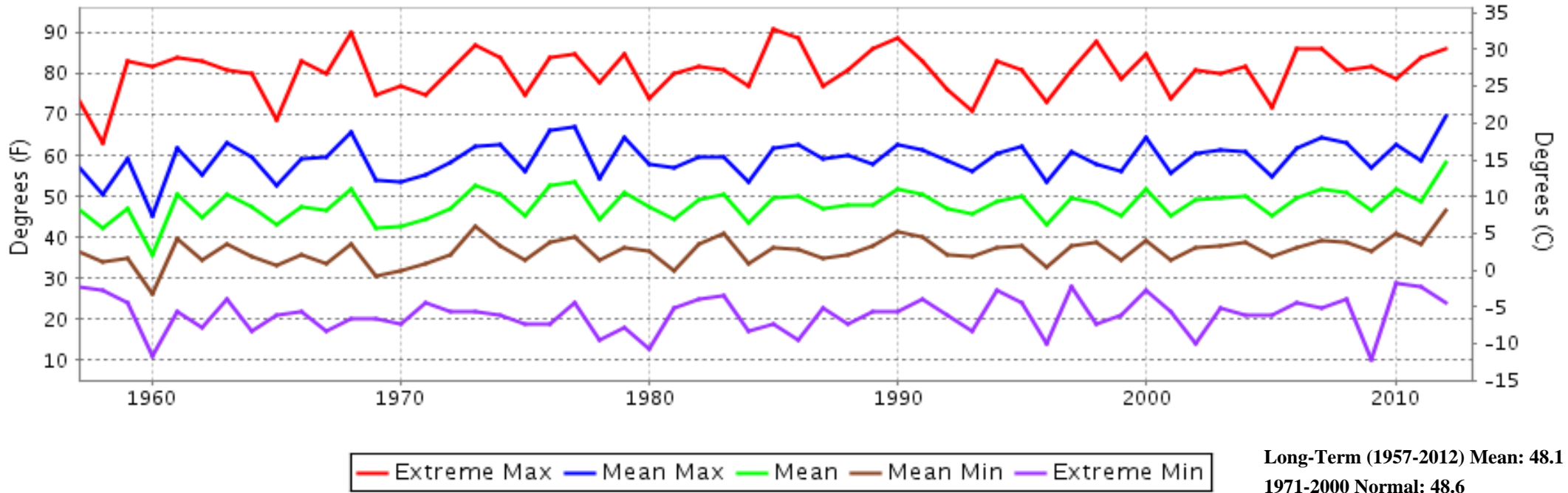
HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)									
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL						
SUNRISE: 0557 MAR 31 SUNSET: 1831																			
01	OVC	021										53	48	50	83	3	13	29.66	29.85
04	OVC	250			-RA							54	50	52	86	3	22	29.58	29.77
07	OVC	250										53	51	52	93	5	17	29.58	29.78
10	OVC	095										61	57	59	87	0	00	29.57	29.77
13	OVC	085										72	56	62	57	0	00	29.54	29.73
16	OVC	110										68	56	61	66	10	04	29.54	29.73
19	BKN	250										57	50	53	78	13	05	29.61	29.80
22	OVC	050										52	46	49	80	9	03	29.69	29.88

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.

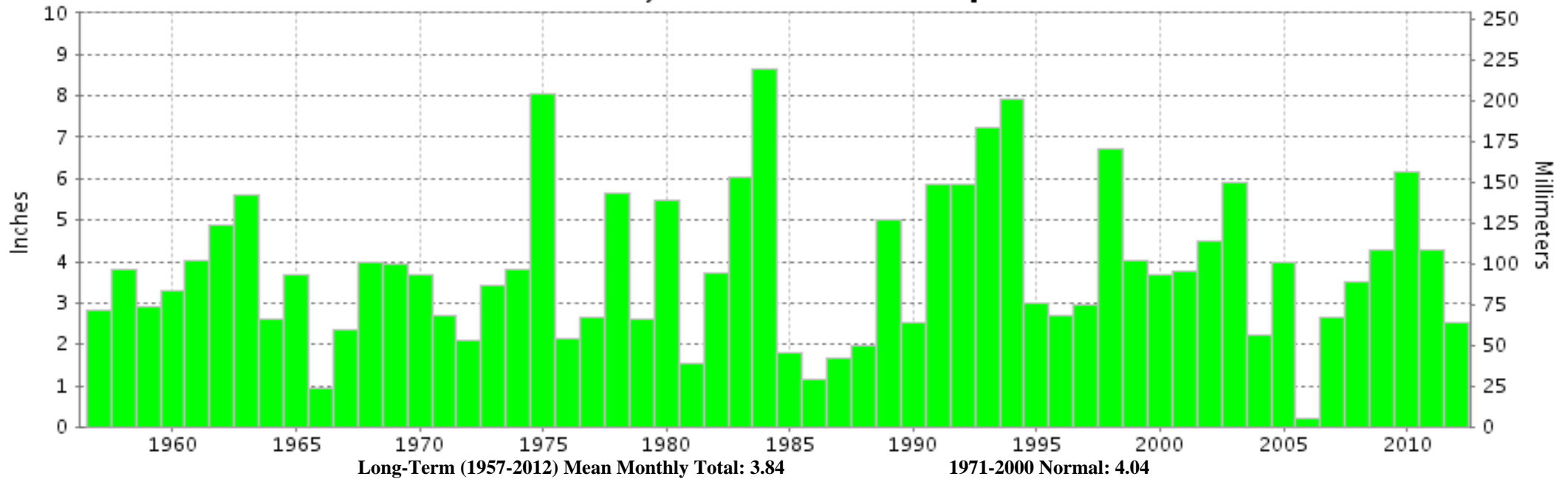
SUMMARY BY HOUR

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			53	45	49	75	29.94	30.13	9.37	6	3	19
02			52	45	49	78	29.93	30.12	9.34	6	3	21
03			52	45	49	80	29.92	30.11	8.72	5	3	21
04			51	45	48	81	29.92	30.11	8.08	5	4	22
05			51	45	48	82	29.93	30.12	7.93	5	3	22
06			50	45	48	83	29.94	30.13	8.23	5	3	20
07			50	45	48	84	29.95	30.15	7.82	5	3	19
08			53	46	50	79	29.96	30.16	8.00	7	3	20
09			56	46	51	71	29.97	30.16	8.23	8	2	20
10			59	46	53	64	29.97	30.16	9.07	8	3	21
11			62	46	54	58	29.96	30.15	9.71	9	4	23
12			64	45	55	53	29.95	30.14	9.65	9	4	23
13			66	45	55	50	29.93	30.12	9.55	9	5	24
14			67	44	55	47	29.91	30.10	9.90	9	4	23
15			68	44	56	46	29.89	30.09	9.84	9	5	24
16			68	43	55	45	29.89	30.08	9.55	9	4	23
17			66	44	55	47	29.89	30.08	9.77	10	2	20
18			63	44	54	52	29.90	30.09	9.76	9	2	16
19			61	44	53	58	29.91	30.10	9.65	8	3	14
20			58	45	52	64	29.92	30.12	9.63	8	3	14
21			57	45	51	67	29.94	30.13	9.65	8	3	14
22			55	45	50	71	29.94	30.13	9.44	7	2	15
23			55	45	50	72	29.95	30.14	9.47	7	3	19
24			54	45	50	74	29.95	30.14	9.49	6	3	19

RICHMOND, VA MARCH Temperatures



RICHMOND, VA MARCH Precipitation





**MARCH 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.

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

DIRECTOR

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TDD : (828) 271-4010
or Email : ncdc.info@noaa.gov

NOAA\National Climatic Data Center
Attn: User Engagement & Services Branch
151 Patton Avenue
Asheville, NC 28801-5001