



# MARCH 2004

## LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

# RICHMOND, VA

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

DATE	TEMPERATURE °F						DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								DATE
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM					
																			5-SEC		2-MIN			
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	71	36	54	11	38	47	11	0				0.0	0.00	30.06	30.25	11.1	21	11.8	33	23	25	23	01	
02	69	56	63	20	57	59	2	0	RA			0.0	T	29.96	30.15	14.4	23	15.0	33	25	28	23	02	
03	70	45	58	15	47	52	7	0	MIFG			0.0	0.00	30.09	30.28	2.0	18	6.9	17	23	14	18	03	
04	82*	52	67*	23	54	58	0	2				0.0	0.00	29.95	30.14	2.6	19	8.8	23	26	20	25	04	
05	80	49	65	21	57	60	0	0	BR			0.0	0.00	29.84	30.02	10.4	21	12.9	36	22	31	23	05	
06	72	53	63	19	56	60	2	0	RA BR			0.0	0.08	29.62	29.80	11.7	24	15.8	36	23	26	25	06	
07	65	37	51	6	40	46	14	0	TSRA RA BR			0.0	0.35	29.73	29.92	2.1	19	8.0	48*	31	37*	32	07	
08	52	33	43	-2	31	39	22	0	RA BR			0.0	0.07	29.70	29.89	9.9	30	10.7	29	31	24	30	08	
09	50	27	39	-6	29	35	26	0				0.0	0.00	29.90	30.09	2.2	11	4.0	17	21	14	11	09	
10	42	31	37	-8	35	36	28	0	RA BR			0.0	0.04	30.02	30.21	11.6	36	12.1	28	36	24	36	10	
11	61	30	46	0	30	39	19	0				0.0	0.00	29.90	30.09	5.7	26	8.7	22	33	18	23	11	
12	59	36	48	2	27	40	17	0				0.0	0.00	29.80	29.99	7.1	28	9.9	25	24	21	28	12	
13	53	28	41	-6	23	34	24	0				0.0	0.00	30.19	30.38	5.7	36	7.0	23	36	17	33	13	
14	60	30	45	-2	34	41	20	0				0.0	0.00	30.18	30.37	8.2	18	8.9	24	18	21	20	14	
15	65	49	57	9	48	52	8	0	RA			0.0	T	30.00	30.18	2.8	19	6.8	22	20	20	20	15	
16	50	36	43	-5	43	43	22	0	RA DZ FG BR			0.0	1.44	29.72	29.90	7.8	05	11.1	25	10	20	09	16	
17	44	36	40	-8	37	39	25	0				0.0	0.00	29.77		0.8	33	4.7	14	24	12	23	17	
18	59	35	47	-1	40	43	18	0	RA BR			0.0	T	29.90	30.09	4.5	18	7.3	28	18	20	21	18	
19	52	36	44	-5	37	43	21	0	RA BR			0.0	0.14	30.09	30.29	5.0	36	7.4	38	34	28	35	19	
20	65	31	48	-1	38	44	17	0	BR			0.0	0.00	30.08	30.27	12.3	20	12.6	36	22	26	22	20	
21	61	36	49	0	34	45	16	0	RA			0.0	T	29.73	29.92	11.3	31	16.3	35	32	29	33	21	
22	44	29	37	-13	13	29	28	0				0.0	0.00	30.09	30.28	8.9	34	9.6	26	01	20	36	22	
23	52	21*	37*	-13	14	30	28	0				0.0	0.00	30.30	30.50	4.9	21	5.8	22	20	17	21	23	
24	66	31	49	-1	24	40	16	0				0.0	0.00	30.33	30.52	9.0	19	9.4	24	18	20	19	24	
25	74	46	60	9	41	50	5	0	RA			0.0	T	30.33	30.53	9.4	19	9.6	24	18	17	19	25	
26	79	50	65	14	51	57	0	0				0.0	0.00	30.23	30.42	10.4	20	10.8	25	22	20	23	26	
27	74	57	66	14	55	60	0	1	RA			0.0	T	30.05	30.23	5.1	27	8.1	21	26	17	26	27	
28	63	43	53	1	48	52	12	0				0.0	0.00	30.13	30.32	8.1	05	9.6	23	02	21	02	28	
29	51	42	47	-5	39	43	18	0				0.0	0.00	30.18	30.37	7.9	07	8.5	18	11	14	04	29	
30	51	41	46	-7	41	44	19	0	RA			0.0	0.01	29.98	30.18	4.5	08	5.3	13	07	12	07	30	
31	52	46	49	-4	47	48	16	0	RA BR			0.0	0.09	29.67	29.86	5.3	06	5.9	13	06	10	07	31	

60.9	39.0	50.0	■ ■	39.0	45.4	14.9	0.1	< MONTHLY AVERAGES	TOTALS-->	0.0	2.22	29.98		2.2	23	9.3	<- MONTHLY AVERAGES
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2.5	2.0	2.3	■ ■	←-----DEPARTURE FROM NORMAL----->							-1.87	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3						
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<b>DEGREE DAYS</b>				GREATEST 24-HR PRECIPITATION: 1.44 DATE: 16		GREATEST 24-HR SNOWFALL: 0.0 DATE: :		GREATEST SNOW DEPTH: :		SEA LEVEL PRESSURE		DATE		TIME	
MONTHLY TOTAL DEPARTURE		SEASON TO DATE TOTAL DEPARTURE		MAXIMUM		MINIMUM		PRECIPITATION ≥ 0.01 INCH :		PRECIPITATION ≥ 0.10 INCH :		SNOWFALL ≥ 1.0 INCH :			
HEATING: 461		-67		3540		-37		NUMBER OF DAYS WITH →		MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 9			
COOLING: 3		-5		3		-6				MAXIMUM TEMP ≤ 32: 0		MINIMUM TEMP ≤ 0: 0			
										THUNDERSTORMS: 1		HEAVY FOG: 0			

MARCH 2004  
RICHMOND, VA

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## RICHMOND, VA

MARCH 2004

RIC

WBAN # 13740

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.
01													01												01		0.00		
02													02												02		T		
03													03												03		0.00		
04													04												04		0.00		
05													05												05		0.00		
06													06												06		0.08		
07													07												07		0.35		
08	0.07	T											08												08		0.07		
09													09												09		0.00		
10													10	0.01	0.02	T									10		0.04		
11													11												11		0.00		
12													12												12		0.00		
13													13												13		0.00		
14													14												14		0.00		
15													15												15	T	T		
16	0.04	0.02	0.02	0.06	0.09	0.26	0.16	0.21	0.21	0.15	0.02	T	16		0.08	0.11	T	T	T	0.01	T			16		1.44			
17													17												17		0.00		
18													18												18		T		
19	T	0.14											19												19		0.14		
20													20												20		0.00		
21													21												21		T		
22													22												22		0.00		
23													23												23		0.00		
24													24												24		0.00		
25													25												25		T		
26													26												26		0.00		
27													27												27		T		
28													28												28		0.00		
29													29												29		0.00		
30													30												30		0.01		
31													31	T		0.02	0.01	0.06							31		0.09		

### MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)												
Ending Date												
Ending Time (Hour/Min)												

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. 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.

## 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		
	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	SQ Squalls
PR Partial	RA Rain	PY Spray	SS Sandstorm
SH Shower(s)	SG Snow Grains	SA Sand	GL Glaze
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unknown Precipitation		

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

## RICHMOND, VA MARCH 2004

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:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							10.00	10.00	
02							10.00	10.00	
03							6.00	10.00	
04							8.00	10.00	
05							5.00	10.00	
06							2.00	10.00	
07							2.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							4.00	10.00	
11							7.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							8.00	10.00	
15							8.00	10.00	
16							.50	10.00	
17							7.00	10.00	
18							1.50	10.00	
19							2.50	10.00	
20							4.00	10.00	
21							8.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							9.00	10.00	
28							7.00	10.00	
29							7.00	10.00	
30							7.00	10.00	
31							1.00	10.00	
<b>MONTHLY AVGS</b>							6.98	10.00	
<b>SUNSHINE (MINUTES)</b>									
Total:                      Possible:                      Percent Possible:									
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING 31									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25    <=3.0    >=7.0 0            5            21									

# OBSERVATIONS AT 3-HOURLY INTERVALS

## RICHMOND, VA

MARCH 2004

RIC

WBAN # 13740

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)					
	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Oktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL			SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0640					MAR 01					SUNSET: 1803					SUNRISE: 0631					MAR 07					SUNSET: 1809				
01	SCT	NC	10.00		44	25	37	47	8	19	30.11	30.30	01	CLR	NC	10.00		52	39	46	61	9	33	29.82	30.01				
04	SCT	NC	10.00		41	25	35	53	5	VR	30.09	30.28	04	FEW	NC	10.00		46	39	43	77	6	05	29.85	30.04				
07	BKN	250	10.00		38	25	33	60	7	19	30.10	30.30	07	FEW	NC	10.00		39	38	39	96	0	00	29.88	30.07				
10	OVC	250	10.00		56	32	45	40	10	22	30.13	30.32	10	CLR	NC	10.00		52	37	45	57	6	13	29.88	30.07				
13	OVC	250	10.00		69	46	57	44	17	24	30.06	30.25	13	FEW	NC	10.00		59	40	50	49	13	15	29.75	29.95				
16	OVC	250	10.00		70	46	57	42	23	21	30.00	30.19	16	FEW	NC	10.00		64	37	51	37	15	20	29.60	29.79				
19	SCT	NC	10.00		63	48	55	58	13	20	30.00	30.19	19	BKN	090	10.00		59	43	51	56	8	16	29.51	29.69				
22	SCT	NC	10.00		54	48	51	80	9	18	30.00	30.19	22	OVC	065	10.00	-RA	41	41	41	100	13	03	29.58	29.78				
SUNRISE: 0639					MAR 02					SUNSET: 1804					SUNRISE: 0630					MAR 08					SUNSET: 1810				
01	CLR	NC	10.00		57	51	54	81	13	19	30.00	30.19	01	OVC	030	10.00	-RA	41	41	41	100	6	30	29.60	29.79				
04	SCT	NC	10.00		57	53	55	87	12	21	29.97	30.16	04	FEW	NC	10.00		40	40	40	100	9	26	29.59	29.79				
07	OVC	080	10.00		60	55	57	84	15	21	29.96	30.15	07	FEW	NC	10.00		41	33	38	74	13	30	29.63	29.82				
10	OVC	110	10.00		66	57	61	73	23	22	29.95	30.14	10	FEW	NC	10.00		47	30	40	52	16	29	29.65	29.85				
13	OVC	140	10.00		69	57	62	66	25	25	29.91	30.10	13	BKN	070	10.00		50	27	40	41	13	29	29.68	29.87				
16	OVC	090	10.00	-RA	66	60	62	81	16	23	29.91	30.11	16	OVC	095	10.00		49	28	40	45	13	33	29.72	29.91				
19	BKN	019	10.00		62	60	61	93	14	23	29.96	30.16	19	SCT	NC	10.00		45	28	38	52	12	33	29.80	29.99				
22	SCT	NC	10.00		60	59	59	96	8	26	30.00	30.20	22	CLR	NC	10.00		39	27	34	62	6	34	29.83	30.03				
SUNRISE: 0637					MAR 03					SUNSET: 1805					SUNRISE: 0629					MAR 09					SUNSET: 1811				
01	SCT	NC	10.00		56	55	55	97	6	28	30.02	30.21	01	SCT	NC	10.00		34	29	32	82	0	00	29.85	30.04				
04	FEW	NC	10.00		51	51	51	100	6	30	30.05	30.24	04	SCT	NC	10.00		30	29	30	96	0	00	29.83	30.03				
07	BKN	250	9.00	MIFG	46	46	46	100	5	03	30.14	30.33	07	SCT	NC	10.00		29	29	29	100	0	00	29.87	30.06				
10	BKN	250	10.00		59	44	51	58	8	11	30.18	30.37	10	BKN	080	10.00		42	28	36	58	3	VR	29.89	30.09				
13	FEW	NC	10.00		66	45	55	47	7	25	30.11	30.30	13	BKN	080	10.00		45	28	38	52	0	00	29.88	30.08				
16	OVC	250	10.00		68	44	55	42	8	23	30.05	30.24	16	BKN	080	10.00		48	28	40	46	7	12	29.87	30.06				
19	BKN	250	10.00		60	46	53	60	10	15	30.06	30.25	19	OVC	070	10.00		43	31	38	63	9	08	29.93	30.13				
22	OVC	110	10.00		57	46	51	67	10	17	30.06	30.25	22	BKN	200	10.00		38	31	35	76	6	04	29.97	30.17				
SUNRISE: 0636					MAR 04					SUNSET: 1806					SUNRISE: 0627					MAR 10					SUNSET: 1812				
01	BKN	110	10.00		56	46	51	70	8	18	30.02	30.21	01	FEW	NC	10.00		35	30	33	82	3	03	29.97	30.17				
04	OVC	090	10.00		54	50	52	87	10	19	29.96	30.16	04	CLR	NC	10.00		32	32	32	100	8	02	29.97	30.17				
07	OVC	150	8.00		52	51	52	97	8	20	29.96	30.16	07	BKN	200	9.00		33	33	33	100	10	01	30.01	30.20				
10	OVC	250	10.00		68	59	63	73	12	23	29.95	30.14	10	OVC	015	9.00		39	36	38	89	20	02	30.04	30.23				
13	OVC	250	10.00		81	58	67	46	9	30	29.91	30.09	13	OVC	013	5.00	-RA BR	38	38	38	100	14	35	30.01	30.21				
16	OVC	250	10.00		76	58	65	54	9	04	29.88	30.07	16	OVC	025	9.00		40	38	39	93	14	36	30.00	30.20				
19	OVC	090	10.00		67	56	61	68	7	07	29.94	30.13	19	FEW	NC	10.00		40	36	38	86	13	35	30.03	30.23				
22	OVC	150	10.00		61	53	57	75	6	08	29.97	30.16	22	CLR	NC	10.00		37	33	35	86	8	33	30.04	30.24				
SUNRISE: 0634					MAR 05					SUNSET: 1807					SUNRISE: 0626					MAR 11					SUNSET: 1813				
01	OVC	080	7.00		55	53	54	93	6	10	29.96	30.15	01	CLR	NC	10.00		36	32	34	86	9	34	30.03	30.23				
04	OVC	250	8.00		50	50	50	100	5	12	29.92	30.11	04	CLR	NC	10.00		34	31	33	89	9	33	30.02	30.21				
07	OVC	065	5.00	BR	49	49	49	100	3	09	29.96	30.15	07	CLR	NC	7.00		31	30	31	96	0	00	30.03	30.23				
10	OVC	250	9.00		64	58	60	81	13	20	29.91	30.10	10	FEW	NC	10.00		47	28	39	48	6	34	30.00	30.20				
13	OVC	200	10.00		77	60	66	56	26	23	29.81	30.00	13	FEW	NC	10.00		54	28	43	37	8	28	29.89	30.09				
16	OVC	250	10.00		79	59	67	50	25	22	29.74	29.93	16	SCT	NC	10.00		60	27	46	28	16	22	29.79	29.98				
19	OVC	250	10.00		73	61	66	66	16	22	29.74	29.93	19	FEW	NC	10.00		48	29	40	48	8	20	29.78	29.97				
22	OVC	200	10.00		73	61	66	66	17	21	29.70	29.89	22	CLR	NC	10.00		50	31	42	48	12	21	29.75	29.94				
SUNRISE: 0633					MAR 06					SUNSET: 1808					SUNRISE: 0624					MAR 12					SUNSET: 1814				
01	OVC	150	10.00		71	61	65	71	16	21	29.65	29.84	01	CLR	NC	10.00		45	31	39	58	6	23	29.73	29.92				
04	OVC	200	10.00		69	62	65	78	16	21	29.55	29.74	04	CLR	NC	10.00		44	32	39	63	9	23	29.71	29.91				
07	OVC	100	10.00		71	63	66	76	20	22	29.56	29.75	07	CLR	NC	10.00		43	31	38	63	10	23	29.75	29.94				
10	OVC	036	6.00	-RA BR	65	64	64	97	22	22	29.58	29.77	10	CLR	NC	10.00		54	24	42	31	17	32	29.79	29.99				
13	OVC	140	10.00		66	58	61	75	15	24	29.52	29.70	13	CLR	NC	10.00		57	26	44	30	17	31	29.80	29.99				
16	BKN	150	10.00		71	56	62	59	13	26	29.55	29.73	16	CLR	NC	10.00		59	24	44	26	13	27	29.78	29.97				
19	BKN	150	10.00		68	48	57	49	14	32	29.66	29.85	19	CLR	NC	10.00		52	22	40	31	6	33	29.83	30.02				
22	FEW	NC	10.00		60	42	51	52	15	32	29.78	29.97	22	CLR	NC	10.00		41	24	35	51	7	02	29.91	30.11				

# OBSERVATIONS AT 3-HOURLY INTERVALS

## RICHMOND, VA

MARCH 2004

RIC

WBAN # 13740

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	
SUNRISE: 0623 MAR 13								SUNSET: 1815								SUNRISE: 0614 MAR 19								SUNSET: 1821								
01	CLR	NC			10.00			35	24	31	64	6	02	29.99	30.18	01	OVC	016			8.00	-RA			51	48	50	89	6	30	29.80	29.99
04	CLR	NC			10.00			30	23	28	75	7	36	30.06	30.26	04	FEW	NC			5.00	BR			49	47	48	93	12	26	29.79	29.98
07	FEW	NC			10.00			31	24	29	76	5	35	30.16	30.35	07	FEW	NC			10.00			49	38	44	66	15	30	29.92	30.11	
10	CLR	NC			10.00			40	23	34	51	6	33	30.22	30.41	10	SCT	NC			10.00			50	30	41	46	24	35	30.08	30.28	
13	FEW	NC			10.00			49	22	38	35	15	34	30.21	30.40	13	BKN	055			10.00			49	32	42	52	14	01	30.17	30.37	
16	SCT	NC			10.00			51	22	40	32	3	VR	30.20	30.40	16	FEW	NC			10.00			52	33	44	49	12	04	30.20	30.40	
19	FEW	NC			10.00			47	22	37	37	5	06	30.25	30.45	19	CLR	NC			10.00			46	32	40	58	6	08	30.25	30.45	
22	CLR	NC			10.00			39	24	33	55	3	10	30.28	30.48	22	CLR	NC			10.00			41	31	37	67	5	08	30.31	30.51	
SUNRISE: 0621 MAR 14								SUNSET: 1816								SUNRISE: 0612 MAR 20								SUNSET: 1821								
01	SCT	NC			10.00			34	25	31	70	0	00	30.29	30.49	01	CLR	NC			8.00			37	33	35	86	0	00	30.32	30.52	
04	OVC	250			10.00			31	30	31	96	5	22	30.32	30.52	04	CLR	NC			5.00	BR		33	32	33	96	5	24	30.29	30.49	
07	OVC	200			10.00			35	34	35	96	5	15	30.30	30.50	07	CLR	NC			4.00	BR		33	32	33	96	3	17	30.31	30.51	
10	OVC	150			10.00			44	29	38	55	15	18	30.29	30.49	10	CLR	NC			10.00			49	34	42	57	20	20	30.27	30.47	
13	SCT	NC			10.00			54	30	44	40	14	16	30.19	30.38	13	CLR	NC			10.00			57	36	47	45	21	19	30.12	30.32	
16	FEW	NC			10.00			59	32	47	36	15	19	30.08	30.27	16	CLR	NC			10.00			64	38	51	38	18	21	29.94	30.14	
19	SCT	NC			10.00			52	32	43	47	9	18	30.05	30.24	19	CLR	NC			10.00			60	42	51	52	16	19	29.80	30.00	
22	SCT	NC			10.00			53	44	49	72	13	18	30.03	30.22	22	SCT	NC			10.00			61	49	55	65	20	21	29.75	29.94	
SUNRISE: 0620 MAR 15								SUNSET: 1817								SUNRISE: 0611 MAR 21								SUNSET: 1822								
01	OVC	150			10.00			55	51	53	87	18	20	29.97	30.16	01	OVC	150			10.00			61	52	56	72	18	21	29.61	29.80	
04	OVC	150			10.00			51	51	51	100	8	20	29.97	30.16	04	OVC	050			9.00			60	54	57	80	17	22	29.55	29.75	
07	OVC	200			8.00			52	52	52	100	0	00	30.02	30.21	07	OVC	050			10.00	-RA		60	48	54	65	20	32	29.64	29.83	
10	OVC	200			10.00			58	48	53	70	6	36	30.05	30.24	10	FEW	NC			10.00			57	27	44	32	25	31	29.70	29.89	
13	OVC	250			10.00			61	46	53	58	3	VR	30.01	30.20	13	SCT	NC			10.00			58	32	46	38	16	34	29.71	29.90	
16	BKN	250			10.00			64	43	53	46	3	12	29.96	30.15	16	BKN	080			10.00			54	25	42	33	22	31	29.74	29.93	
19	BKN	200			10.00			57	48	52	72	12	15	29.98	30.17	19	BKN	080			10.00			46	22	37	38	15	34	29.83	30.02	
22	OVC	013			10.00			51	49	50	92	5	13	29.99	30.19	22	CLR	NC			10.00			40	22	33	49	12	35	29.92	30.11	
SUNRISE: 0618 MAR 16								SUNSET: 1818								SUNRISE: 0609 MAR 22								SUNSET: 1823								
01	OVC	006			5.00	RA BR		48	48	48	100	5	09	29.93	30.13	01	CLR	NC			10.00			35	22	30	59	9	36	29.95	30.14	
04	OVC	005			4.00	-RA BR		50	50	50	100	12	10	29.83	30.02	04	CLR	NC			10.00			31	18	27	59	7	35	29.96	30.16	
07	OVC	010			1.00	+RA BR		47	47	47	100	10	09	29.80	29.99	07	BKN	200			10.00			32	16	27	52	3	33	30.01	30.21	
10	OVC	010			1.00	+RA BR		43	43	43	100	13	08	29.74	29.94	10	OVC	200			10.00			37	15	30	41	12	35	30.09	30.29	
13	OVC	006			1.25	BR		43	43	43	100	13	06	29.63	29.83	13	BKN	065			10.00			41	13	32	32	17	30	30.08	30.27	
16	OVC	007			10.00			42	42	42	100	10	02	29.55	29.74	16	SCT	NC			10.00			42	7	31	23	18	36	30.08	30.27	
19	OVC	007			6.00	BR		39	39	39	100	17	34	29.63	29.83	19	CLR	NC			10.00			38	7	29	27	9	33	30.16	30.36	
22	OVC	008			10.00			37	37	37	100	8	36	29.67	29.86	22	CLR	NC			10.00			32	9	25	38	5	01	30.23	30.43	
SUNRISE: 0617 MAR 17								SUNSET: 1819								SUNRISE: 0608 MAR 23								SUNSET: 1824								
01	OVC	006			10.00			36	36	36	100	9	35	29.69	29.89	01	CLR	NC			10.00			30	11	24	45	0	00	30.26	30.46	
04	OVC	010			10.00			37	37	37	100	8	35	29.69	29.88	04	CLR	NC			10.00			25	14	22	63	0	00	30.28	30.48	
07	OVC	038			10.00			36	36	36	100	0	00	29.74	29.94	07	FEW	NC			10.00			26	18	24	71	0	00	30.34	30.54	
10	OVC	045			10.00			39	37	38	93	0	00	29.79	29.98	10	CLR	NC			10.00			39	11	30	31	0	00	30.38	30.58	
13	OVC	026			10.00			42	36	39	79	0	00	29.78	29.97	13	CLR	NC			10.00			47	13	35	25	7	VR	30.32	30.51	
16	OVC	035			10.00			43	37	40	80	5	15	29.76		16	FEW	NC			10.00			52	10	37	18	10	22	30.24	30.43	
19	OVC	035			10.00			42	38	40	85	3	15	29.79		19	CLR	NC			10.00			41	16	32	36	8	19	30.25	30.45	
22	BKN	070			8.00			40	40	40	100	7	20	29.83		22	CLR	NC			10.00			38	17	31	43	7	19	30.30	30.50	
SUNRISE: 0615 MAR 18								SUNSET: 1820								SUNRISE: 0606 MAR 24								SUNSET: 1825								
01	SCT	NC			8.00			36	36	36	100	8	01	29.87		01	CLR	NC			10.00			36	18	30	48	8	20	30.31	30.51	
04	OVC	002			1.50	BR		35	35	35	100	0	00	29.87	30.06	04	CLR	NC			10.00			37	17	30	44	3	21	30.32	30.52	
07	OVC	003			2.00	BR		35	35	35	100	0	00	29.94	30.14	07	FEW	NC			10.00			34	23	30	64	3	16	30.36	30.55	
10	OVC	060			5.00	BR		42	38	40	85	5	VR	29.98	30.18	10	FEW	NC			10.00			52	21	40	30	8	23	30.38	30.58	
13	BKN	065			10.00			52	38	45	59	7	VR	29.93	30.13	13	FEW	NC			10.00			64	25	47	23	16	17	30.33	30.53	
16	BKN	048			10.00			58	42	50	56	7	19	29.87	30.07	16	BKN	110			10.00			65	27	48	24	14	20	30.28	30.48	
19	OVC	110			10.00			53	45	49	74	12	19	29.87	30.07	19	BKN	100			10.00			59	29	46	32	13	18	30.29	30.49	
22	OVC	060			8.00			52	47	49	83	12	19	29.85	30.04	22	SCT	NC			10.00			55	29	44	37	9	16	30.33	30.52	

# OBSERVATIONS AT 3-HOURLY INTERVALS

## RICHMOND, VA

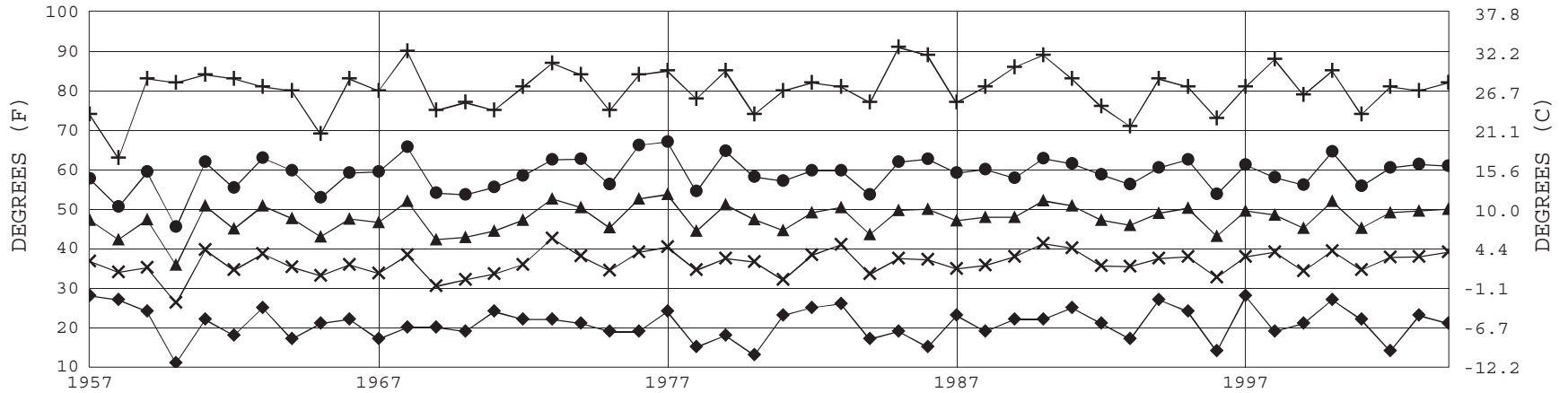
MARCH 2004

RIC

WBAN # 13740

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)																																																																																																																																																																																																																																																																																																																																																						
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)		DIRECTION TENS OF DEG	STATION		SEA LEVEL	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL																																																																																																																																																																																																																																																																																																																																																	
<b>SUNRISE: 0605</b>				<b>MAR 25</b>				<b>SUNSET: 1826</b>				<b>SUNRISE: 0556</b>				<b>MAR 31</b>				<b>SUNSET: 1831</b>																																																																																																																																																																																																																																																																																																																																																								
01	SCT	NC		10.00	51	27	41	39	13	19	30.33	30.53	01	OVC	006		9.00	47	46	46	97	3	03	29.82	30.01																																																																																																																																																																																																																																																																																																																																																			
04	BKN	120		10.00	47	34	41	61	8	17	30.34	30.53	04	OVC	003		5.00	46	46	46	100	5	06	29.76	29.96																																																																																																																																																																																																																																																																																																																																																			
07	OVC	090		10.00	50	38	44	63	5	17	30.41	30.60	07	OVC	014		3.00	47	46	46	97	6	06	29.76	29.96																																																																																																																																																																																																																																																																																																																																																			
10	SCT	NC		10.00	59	43	51	56	12	19	30.39	30.59	10	OVC	011		10.00	49	46	47	90	7	10	29.73	29.93																																																																																																																																																																																																																																																																																																																																																			
13	FEW	NC		10.00	71	46	58	41	14	19	30.33	30.53	13	OVC	011		10.00	51	47	49	86	7	06	29.65	29.85																																																																																																																																																																																																																																																																																																																																																			
16	SCT	NC		10.00	73	44	57	36	13	19	30.28	30.47	16	OVC	018		6.00	51	49	50	92	7	05	29.58	29.78																																																																																																																																																																																																																																																																																																																																																			
19	SCT	NC		10.00	64	45	54	50	9	18	30.29	30.48	19	OVC	016		8.00	48	47	47	96	7	08	29.58	29.78																																																																																																																																																																																																																																																																																																																																																			
22	OVC	150		10.00	62	45	53	54	9	19	30.30	30.50	22	OVC	003		2.50	47	46	46	97	8	04	29.56	29.75																																																																																																																																																																																																																																																																																																																																																			
<b>SUNRISE: 0603</b>				<b>MAR 26</b>				<b>SUNSET: 1827</b>				<b>3-HOURLY OBSERVATION NOTES</b>																																																																																																																																																																																																																																																																																																																																																																
01	SCT	NC		10.00	57	48	52	72	8	19	30.30	30.49	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, VV = Vertical Visibility = 8/8.																																																																																																																																																																																																																																																																																																																																																															
04	FEW	NC		10.00	53	48	50	83	6	19	30.30	30.49	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																																																																																																																																																																																																																																																																																																																																																															
07	FEW	NC		10.00	54	50	52	87	9	19	30.32	30.51	NC= No ceiling detected.																																																																																																																																																																																																																																																																																																																																																															
10	SCT	NC		10.00	68	52	59	57	13	23	30.30	30.49	& = Original observation contained additional weather elements.																																																																																																																																																																																																																																																																																																																																																															
13	BKN	250		10.00	76	51	62	42	14	21	30.22	30.41	See page 3 for additional notes.																																																																																																																																																																																																																																																																																																																																																															
16	OVC	250		10.00	76	52	62	43	9	21	30.16	30.35																																																																																																																																																																																																																																																																																																																																																																
19	BKN	250		10.00	66	52	58	61	9	19	30.16	30.36																																																																																																																																																																																																																																																																																																																																																																
22	SCT	NC		10.00	62	50	56	65	10	19	30.15	30.34																																																																																																																																																																																																																																																																																																																																																																
<b>SUNRISE: 0602</b>				<b>MAR 27</b>				<b>SUNSET: 1828</b>																																																																																																																																																																																																																																																																																																																																																																				
01	FEW	NC		10.00	59	52	55	78	12	20	30.12	30.31																																																																																																																																																																																																																																																																																																																																																																
04	BKN	250		10.00	59	53	56	81	9	21	30.07	30.26																																																																																																																																																																																																																																																																																																																																																																
07	SCT	NC		10.00	60	53	56	78	10	22	30.08	30.27																																																																																																																																																																																																																																																																																																																																																																
10	OVC	200		10.00	72	53	61	52	6	34	30.09	30.27																																																																																																																																																																																																																																																																																																																																																																
13	OVC	150		10.00	72	55	62	55	12	33	30.05	30.24																																																																																																																																																																																																																																																																																																																																																																
16	OVC	055		10.00	70	58	63	66	13	27	29.98	30.17																																																																																																																																																																																																																																																																																																																																																																
19	OVC	085		10.00	68	59	63	73	7	31	29.98	30.17																																																																																																																																																																																																																																																																																																																																																																
22	SCT	NC		10.00	61	57	59	87	0	00	30.01	30.20																																																																																																																																																																																																																																																																																																																																																																
<b>SUNRISE: 0600</b>				<b>MAR 28</b>				<b>SUNSET: 1829</b>				<b>SUMMARY BY HOUR</b>																																																																																																																																																																																																																																																																																																																																																																
01	FEW	NC		8.00	60	57	58	90	6	32	30.00	30.19	<table border="1"> <thead> <tr> <th rowspan="3">HOUR (LST)</th> <th colspan="11">AVERAGES</th> <th colspan="2">RESULTANT WIND (MPH)</th> </tr> <tr> <th rowspan="2">CEILOMETER</th> <th rowspan="2">EFF CLD AMT</th> <th rowspan="2">DRY BULB</th> <th rowspan="2">DEW POINT</th> <th rowspan="2">WET BULB</th> <th rowspan="2">RELATIVE HUMIDITY</th> <th colspan="2">PRESSURE (INCHES, HG)</th> <th rowspan="2">VISIBILITY (MILES)</th> <th rowspan="2">WIND SPEED (MPH)</th> <th rowspan="2">SPEED</th> <th rowspan="2">DIRECTION</th> </tr> <tr> <th>STATION</th> <th>SEA LEVEL</th> </tr> </thead> <tbody> <tr><td>01</td><td></td><td></td><td>46</td><td>39</td><td>43</td><td>77</td><td>29.99</td><td>30.18</td><td>9.45</td><td>8</td><td>2</td><td>22</td></tr> <tr><td>02</td><td></td><td></td><td>45</td><td>39</td><td>43</td><td>80</td><td>29.98</td><td>30.17</td><td>9.10</td><td>7</td><td>2</td><td>22</td></tr> <tr><td>03</td><td></td><td></td><td>45</td><td>39</td><td>42</td><td>81</td><td>29.97</td><td>30.17</td><td>8.89</td><td>8</td><td>1</td><td>21</td></tr> <tr><td>04</td><td></td><td></td><td>44</td><td>39</td><td>42</td><td>84</td><td>29.97</td><td>30.17</td><td>8.95</td><td>7</td><td>2</td><td>23</td></tr> <tr><td>05</td><td></td><td></td><td>44</td><td>39</td><td>42</td><td>85</td><td>29.98</td><td>30.18</td><td>8.94</td><td>7</td><td>1</td><td>25</td></tr> <tr><td>06</td><td></td><td></td><td>43</td><td>39</td><td>41</td><td>86</td><td>29.99</td><td>30.19</td><td>8.77</td><td>7</td><td>2</td><td>21</td></tr> <tr><td>07</td><td></td><td></td><td>44</td><td>39</td><td>42</td><td>84</td><td>30.01</td><td>30.20</td><td>8.58</td><td>7</td><td>1</td><td>24</td></tr> <tr><td>08</td><td></td><td></td><td>46</td><td>39</td><td>43</td><td>78</td><td>30.03</td><td>30.22</td><td>8.79</td><td>9</td><td>2</td><td>29</td></tr> <tr><td>09</td><td></td><td></td><td>49</td><td>38</td><td>44</td><td>70</td><td>30.03</td><td>30.23</td><td>8.86</td><td>9</td><td>2</td><td>26</td></tr> <tr><td>10</td><td></td><td></td><td>52</td><td>38</td><td>45</td><td>62</td><td>30.03</td><td>30.22</td><td>9.32</td><td>11</td><td>2</td><td>26</td></tr> <tr><td>11</td><td></td><td></td><td>54</td><td>38</td><td>47</td><td>59</td><td>30.02</td><td>30.21</td><td>9.65</td><td>10</td><td>3</td><td>26</td></tr> <tr><td>12</td><td></td><td></td><td>56</td><td>39</td><td>48</td><td>56</td><td>30.00</td><td>30.20</td><td>9.58</td><td>11</td><td>4</td><td>25</td></tr> <tr><td>13</td><td></td><td></td><td>57</td><td>39</td><td>49</td><td>54</td><td>29.98</td><td>30.17</td><td>9.56</td><td>12</td><td>4</td><td>26</td></tr> <tr><td>14</td><td></td><td></td><td>58</td><td>39</td><td>49</td><td>52</td><td>29.96</td><td>30.16</td><td>9.52</td><td>12</td><td>4</td><td>25</td></tr> <tr><td>15</td><td></td><td></td><td>59</td><td>39</td><td>49</td><td>51</td><td>29.94</td><td>30.14</td><td>9.35</td><td>12</td><td>3</td><td>24</td></tr> <tr><td>16</td><td></td><td></td><td>59</td><td>39</td><td>49</td><td>51</td><td>29.93</td><td>30.13</td><td>9.84</td><td>12</td><td>4</td><td>23</td></tr> <tr><td>17</td><td></td><td></td><td>58</td><td>38</td><td>49</td><td>52</td><td>29.93</td><td>30.13</td><td>9.81</td><td>12</td><td>4</td><td>23</td></tr> <tr><td>18</td><td></td><td></td><td>56</td><td>38</td><td>48</td><td>55</td><td>29.95</td><td>30.14</td><td>9.74</td><td>12</td><td>3</td><td>23</td></tr> <tr><td>19</td><td></td><td></td><td>53</td><td>39</td><td>47</td><td>61</td><td>29.95</td><td>30.15</td><td>9.81</td><td>10</td><td>2</td><td>18</td></tr> <tr><td>20</td><td></td><td></td><td>51</td><td>40</td><td>46</td><td>66</td><td>29.96</td><td>30.16</td><td>9.71</td><td>9</td><td>2</td><td>16</td></tr> <tr><td>21</td><td></td><td></td><td>50</td><td>40</td><td>45</td><td>72</td><td>29.98</td><td>30.17</td><td>9.39</td><td>9</td><td>2</td><td>19</td></tr> <tr><td>22</td><td></td><td></td><td>49</td><td>39</td><td>45</td><td>72</td><td>29.98</td><td>30.18</td><td>9.47</td><td>9</td><td>1</td><td>18</td></tr> <tr><td>23</td><td></td><td></td><td>48</td><td>39</td><td>44</td><td>74</td><td>29.97</td><td>30.17</td><td>9.68</td><td>8</td><td>3</td><td>21</td></tr> <tr><td>24</td><td></td><td></td><td>47</td><td>39</td><td>44</td><td>76</td><td>29.97</td><td>30.17</td><td>9.65</td><td>8</td><td>2</td><td>22</td></tr> </tbody> </table>												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			46	39	43	77	29.99	30.18	9.45	8	2	22	02			45	39	43	80	29.98	30.17	9.10	7	2	22	03			45	39	42	81	29.97	30.17	8.89	8	1	21	04			44	39	42	84	29.97	30.17	8.95	7	2	23	05			44	39	42	85	29.98	30.18	8.94	7	1	25	06			43	39	41	86	29.99	30.19	8.77	7	2	21	07			44	39	42	84	30.01	30.20	8.58	7	1	24	08			46	39	43	78	30.03	30.22	8.79	9	2	29	09			49	38	44	70	30.03	30.23	8.86	9	2	26	10			52	38	45	62	30.03	30.22	9.32	11	2	26	11			54	38	47	59	30.02	30.21	9.65	10	3	26	12			56	39	48	56	30.00	30.20	9.58	11	4	25	13			57	39	49	54	29.98	30.17	9.56	12	4	26	14			58	39	49	52	29.96	30.16	9.52	12	4	25	15			59	39	49	51	29.94	30.14	9.35	12	3	24	16			59	39	49	51	29.93	30.13	9.84	12	4	23	17			58	38	49	52	29.93	30.13	9.81	12	4	23	18			56	38	48	55	29.95	30.14	9.74	12	3	23	19			53	39	47	61	29.95	30.15	9.81	10	2	18	20			51	40	46	66	29.96	30.16	9.71	9	2	16	21			50	40	45	72	29.98	30.17	9.39	9	2	19	22			49	39	45	72	29.98	30.18	9.47	9	1	18	23			48	39	44	74	29.97	30.17	9.68	8	3	21	24			47	39	44	76	29.97	30.17	9.65	8	2	22
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<b>SUNRISE: 0557</b>				<b>MAR 30</b>				<b>SUNSET: 1831</b>																																																																																																																																																																																																																																																																																																																																																																				
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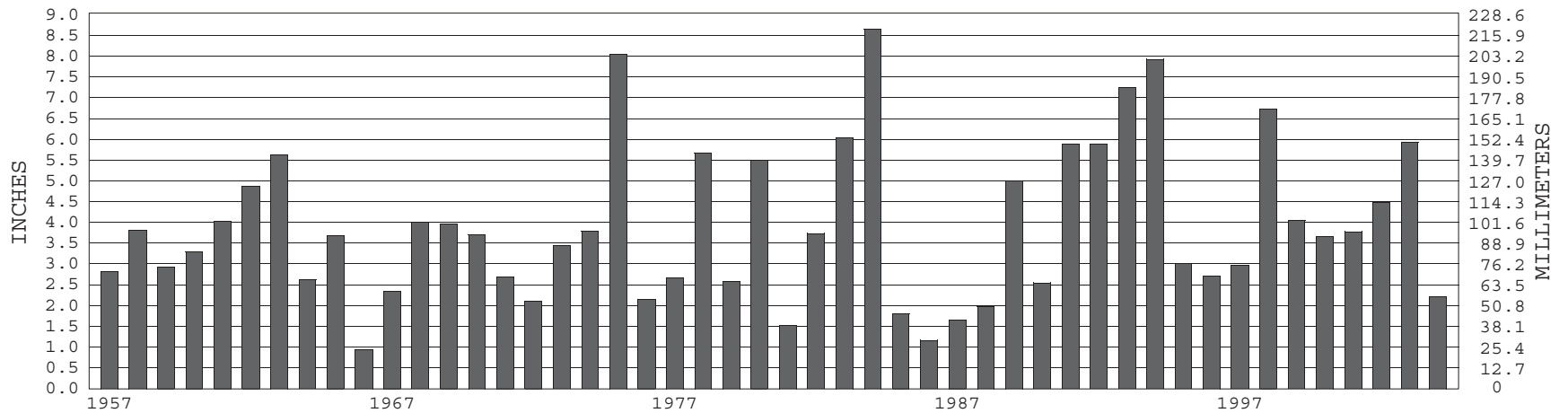
### RICHMOND, VA MARCH TEMPERATURES



+ Extreme Max.      ● Mean Max.      ▲ Mean      × Mean Min.      ◆ Extreme Min.

Long-Term (1957-2004) Mean: 47.7      1971-2000 Normal: 47.7

### RICHMOND, VA MARCH PRECIPITATION



Long-Term (1957-2004) Mean Monthly Total: 3.91

1971-2000 Normal: 4.09



MARCH 2004  
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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