



# APRIL 2003

## LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

# RICHMOND, VA

R.E.BYRD INTERNATIONAL AP (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	67	34*	51	-2	35	44	14	0	RA			0.0	0.02	29.90	30.09	12.5	22	12.7	35	23	28	23	01
02	82	55	69	16	48	57	0	4				0.0	0.00	29.83	30.02	11.9	23	12.0	29	22	25	22	02
03	85	53	69	16	49	58	0	4				0.0	0.00	29.76	29.94	8.2	22	9.1	24	23	21	23	03
04	78	50	64	11	54	58	1	0				0.0	0.00	29.66	29.85	3.5	15	7.9	17	14	15	13	04
05	75	49	62	8	54	57	3	0	RA BR HZ			0.0	0.03	29.67	29.86	2.5	27	8.3	23	25	21	35	05
06	61	45	53	-1	39	46	12	0				0.0	0.00	30.12	30.31	7.0	07	9.3	23	02	20	03	06
07	45	39	42	-12	41	41	23	0	RA DZ BR			0.0	1.95	30.09	30.28	10.1	03	11.3	25	08	20	08	07
08	44	38	41	-14	41	41	24	0	RA BR			0.0	0.27	30.07	30.26	8.5	04	9.2	18	01	15	01	08
09	43	39	41*	-14	41	41	24	0	RA BR			0.0	0.73	29.87	30.06	11.9	03	12.1	24	02	20	04	09
10	49	41	45	-10	41	42	20	0	TSRA RA DZ BR			0.0	0.75	29.72	29.91	15.8	05	16.8	41*	07	31*	06	10
11	47	41	44	-12	43	43	21	0	RA DZ BR			0.0	0.01	29.53	29.72	12.8	35	13.4	25	02	21	02	11
12	73	46	60	3	41	50	5	0				0.0	0.00	29.56	29.75	8.1	32	9.4	29	36	23	34	12
13	69	42	56	-1	41	49	9	0				0.0	0.00	29.94	30.13	3.6	01	6.6	17	03	14	01	13
14	72	40	56	-1	44	50	9	0				0.0	0.00	30.16	30.35	5.2	16	6.0	20	17	16	14	14
15	83	48	66	9	53	58	0	1				0.0	0.00	29.98	30.17	10.8	20	11.0	22	22	18	21	15
16	85*	54	70*	12	55	61	0	5				0.0	0.00	29.78	29.97	8.4	21	9.5	18	23	15	23	16
17	68	42	55	-3	48	51	10	0	RA DZ BR			0.0	T	29.95	30.13	9.3	07	12.9	26	07	22	06	17
18	49	42	46	-12	46	46	19	0	RA DZ BR			0.0	0.11	30.11	30.31	10.2	03	10.4	18	04	15	01	18
19	59	47	53	-5	48	50	12	0	RA BR			0.0	0.04	30.14	30.33	7.1	05	7.5	17	02	15	05	19
20	69	41	55	-4	46	50	10	0				0.0	0.00	30.03	30.22	3.4	03	5.1	16	03	13	03	20
21	73	44	59	0	56	58	6	0	FG+ BR			0.0	0.00	29.74	29.93	7.9	19	8.4	20	19	17	18	21
22	72	54	63	4	53	58	2	0	RA			0.0	T	29.56	29.75	5.9	33	9.3	23	32	18	32	22
23	67	42	55	-4	36	46	10	0				0.0	0.00	29.76	29.94	8.8	32	9.4	31	32	25	29	23
24	69	40	55	-5	31	45	10	0				0.0	0.00	29.83	30.02	3.6	34	7.0	17	28	14	28	24
25	66	51	59	-1	53	55	6	0	RA BR			0.0	0.37	29.64	29.83	4.5	14	6.1	17	21	15	20	25
26	67	57	62	2	59	60	3	0	RA BR			0.0	0.06	29.50	29.68	4.9	01	6.1	17	01	14	01	26
27	74	52	63	3	52	56	2	0	BR			0.0	0.00	29.78	29.97	5.7	35	6.2	22	01	17	36	27
28	80	46	63	2	53	58	2	0	FG+ BR			0.0	0.00	29.83	30.02	5.6	19	6.3	20	19	15	20	28
29	82	54	68	7	57	62	0	3				0.0	0.00	29.74	29.92	2.1	29	6.1	20	30	16	31	29
30	80	55	68	7	58	62	0	3	TS TSRA RA BR			0.0	0.04	29.88	30.07	4.0	11	6.1	21	13	17	13	30

67.8	46.0	56.9	■ ■	47.2	51.8	8.6	0.7	< MONTHLY AVERAGES	TOTALS-->	0.0	4.38	29.84	30.03	3.4	03	9.1	<-- MONTHLY AVERAGES
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-1.1	0.7	-2	■ ■	-----DEPARTURE FROM NORMAL----->						1.20	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3					
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<b>DEGREE DAYS</b>				GREATEST 24-HR PRECIPITATION: 1.95 DATE: 07				SEA LEVEL PRESSURE DATE TIME			
MONTHLY TOTAL DEPARTURE				SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL: 0.0 DATE:			
HEATING: 257 3				4014 183				MAXIMUM MINIMUM : 30.45 06 2254			
COOLING: 20 -13				20 -22				DATE : 29.60 26 0354			
NUMBER OF DAYS WITH →				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 0			
				MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0			
				THUNDERSTORMS : 2				HEAVY FOG : 2			
				PRECIPITATION ≥ 0.01 INCH : 12				PRECIPITATION ≥ 0.10 INCH : 6			
				SNOWFALL ≥ 1.0 INCH : 0							

APRIL 2003 RICHMOND, VA

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## RICHMOND, VA

APRIL 2003

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	T											01			0.02	
02													02												02			0.00	
03													03												03			0.00	
04													04												04			0.00	
05													05	T											05			0.03	
06													06												06			0.00	
07		0.02	0.01	0.05	0.17	0.27	0.23	0.29	0.37	0.20	0.15	0.09	07	0.10	T	T		T	T	T	T	T	T	07			1.95		
08	T												08				T		T					08			0.27		
09	0.10	0.10	0.05	0.06	0.03	0.07	0.08	0.09	0.11	0.02	0.01	0.01	09					T	0.01	0.03	0.03	0.04	0.16	09			0.73		
10		T	T	T	T	T							10				T	T	0.10	0.48	0.07	0.05	0.03	0.02	10			0.75	
11	T		T	0.01	T	T	T	T	T	T			11				T	T							11			0.01	
12													12												12			0.00	
13													13												13			0.00	
14													14												14			0.00	
15													15												15			0.00	
16													16												16			0.00	
17													17								T				17			T	
18	T	T	T	T	T	0.01							18			T								18	0.10			0.11	
19	T	T	0.01	0.01	0.01	0.01			T	T	T	T	19							T	T	0.03	0.01	T	19			0.04	
20													20												20			0.00	
21													21												21			0.00	
22													22								T				22			T	
23													23												23			0.00	
24													24												24			0.00	
25													25	T	0.01	0.04	0.10	0.07	0.05	0.02	T	0.01	0.02	0.02	0.03	25			0.37
26	0.04	0.01	T	T	T	T							26												26			0.06	
27													27												27			0.00	
28													28												28			0.00	
29													29												29			0.00	
30													30												30			0.04	

### MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.20	.24	.27	.33	.40	.46	.49	.52	.59	.67	.79	.91
Ending Date	10	10	10	10	10	10	10	10	07	07	07	07
Ending Time (Hour/Min)	1929	1934	1932	1929	1934	1941	1946	2015	0901	0901	0901	0829

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 APRIL 2003

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							10.00	10.00	
04							7.00	10.00	
05							2.50	10.00	
06							10.00	10.00	
07							1.25	10.00	
08							1.50	10.00	
09							2.00	10.00	
10							.75	10.00	
11							1.50	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							7.00	10.00	
17							4.00	10.00	
18							1.75	10.00	
19							2.50	10.00	
20							10.00	10.00	
21							.25	10.00	
22							7.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							2.00	10.00	
26							.75	10.00	
27							2.00	10.00	
28							.13	10.00	
29							8.00	10.00	
30							4.00	10.00	
<b>MONTHLY AVGS</b>							5.68	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									
30									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25    <=3.0    >=7.0									
1            12          15									



# OBSERVATIONS AT 3-HOURLY INTERVALS

**RICHMOND, VA**

APRIL 2003

RIC

WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES,HG)		HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES,HG)	
			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				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: 0538      APR 13      SUNSET: 1843												SUNRISE: 0530      APR 19      SUNSET: 1848															
01	CLR	NC				49	43	46	80	0	00	29.77	29.96	01	OVC	003				48	48	48	100	7	02	30.13	30.32
04	CLR	NC				47	39	43	74	10	01	29.81	30.00	04	OVC	003			-RA	48	48	48	100	7	04	30.12	30.32
07	CLR	NC				52	39	46	61	10	01	29.90	30.09	07	OVC	005				48	48	48	100	10	06	30.16	30.35
10	CLR	NC				61	42	51	50	12	04	29.97	30.16	10	OVC	008			BR	50	49	49	96	7	05	30.17	30.36
13	CLR	NC				66	40	53	39	7	29	29.96	30.15	13	OVC	016				55	50	52	83	6	36	30.16	30.35
16	CLR	NC				69	38	53	32	6	35	29.94	30.13	16	SCT	NC				59	49	54	69	8	06	30.11	30.30
19	CLR	NC				62	41	51	46	0	00	29.98	30.17	19	SCT	NC				55	47	51	74	3	04	30.12	30.32
22	CLR	NC				50	45	48	83	6	15	30.07	30.26	22	FEW	NC				49	48	48	97	5	36	30.14	30.33
SUNRISE: 0536      APR 14      SUNSET: 1843												SUNRISE: 0528      APR 20      SUNSET: 1849															
01	CLR	NC				46	44	45	93	0	00	30.12	30.31	01	FEW	NC				44	44	44	100	6	01	30.12	30.31
04	CLR	NC				42	42	42	100	0	00	30.14	30.33	04	CLR	NC				42	42	42	100	5	36	30.08	30.27
07	CLR	NC				46	45	46	96	0	00	30.19	30.39	07	BKN	250				47	45	46	93	7	01	30.10	30.30
10	SCT	NC				62	43	52	50	3	VR	30.21	30.41	10	BKN	250				58	44	51	60	7	VR	30.08	30.28
13	BKN	250				69	48	58	47	8	18	30.17	30.37	13	BKN	250				64	46	55	52	8	36	30.03	30.22
16	BKN	250				71	47	58	42	10	16	30.12	30.31	16	OVC	200				66	44	55	45	3	34	29.98	30.18
19	SCT	NC				61	43	52	52	12	13	30.12	30.31	19	OVC	200				61	50	55	67	8	10	29.94	30.14
22	FEW	NC				56	38	47	51	8	17	30.14	30.34	22	SCT	NC				53	51	52	93	0	00	29.95	30.14
SUNRISE: 0535      APR 15      SUNSET: 1844												SUNRISE: 0527      APR 21      SUNSET: 1850															
01	CLR	NC				51	38	45	61	7	18	30.12	30.31	01	SCT	NC				49	49	49	100	0	00	29.92	30.11
04	CLR	NC				48	42	45	80	7	18	30.09	30.29	04	FEW	NC				45	45	45	100	0	00	29.87	30.06
07	CLR	NC				54	46	50	75	10	19	30.10	30.29	07	BKN	250			BR	46	46	46	100	7	14	29.85	30.04
10	CLR	NC				68	57	62	68	13	21	30.06	30.25	10	BKN	250				63	53	57	70	8	19	29.82	30.01
13	CLR	NC				80	59	67	49	12	22	29.97	30.16	13	BKN	200				71	60	64	68	15	19	29.71	29.91
16	SCT	NC				82	56	66	41	16	20	29.88	30.07	16	OVC	250				72	62	66	71	15	19	29.63	29.82
19	CLR	NC				73	56	63	55	10	19	29.86	30.05	19	OVC	029				69	63	65	81	10	18	29.60	29.79
22	CLR	NC				68	58	62	70	14	20	29.85	30.04	22	OVC	250				62	61	61	96	6	18	29.58	29.77
SUNRISE: 0534      APR 16      SUNSET: 1845												SUNRISE: 0526      APR 22      SUNSET: 1851															
01	CLR	NC				66	56	60	70	12	22	29.85	30.04	01	OVC	040				65	63	64	93	10	21	29.55	29.73
04	CLR	NC				58	56	57	93	8	20	29.83	30.02	04	BKN	120				64	63	63	96	7	26	29.52	29.70
07	FEW	NC				59	57	58	93	7	20	29.85	30.04	07	BKN	090				63	56	59	78	8	35	29.56	29.75
10	SCT	NC				73	56	63	55	10	26	29.83	30.02	10	BKN	090				69	55	61	61	8	34	29.55	29.74
13	SCT	NC				82	57	67	43	8	18	29.77	29.96	13	OVC	090				70	53	60	55	7	24	29.54	29.71
16	SCT	NC				83	52	64	34	10	24	29.70	29.89	16	BKN	100				69	49	58	49	13	29	29.53	29.70
19	SCT	NC				74	54	62	50	12	20	29.69	29.88	19	OVC	065				64	48	55	56	13	33	29.56	29.76
22	SCT	NC				67	55	60	66	9	19	29.74	29.93	22	BKN	060				58	42	50	56	14	32	29.65	29.84
SUNRISE: 0532      APR 17      SUNSET: 1846												SUNRISE: 0524      APR 23      SUNSET: 1852															
01	CLR	NC				67	55	60	66	10	22	29.75	29.94	01	FEW	NC				52	41	47	66	9	33	29.68	29.87
04	FEW	NC				65	55	59	70	9	24	29.75	29.93	04	CLR	NC				46	41	44	83	3	32	29.61	29.90
07	SCT	NC				61	56	58	84	9	07	29.83	30.02	07	CLR	NC				49	41	45	74	8	33	29.77	29.96
10	OVC	022				55	48	51	77	15	07	29.95	30.14	10	CLR	NC				56	37	47	49	16	33	29.79	29.98
13	OVC	026				56	47	51	72	16	09	29.98	30.17	13	CLR	NC				62	31	48	31	9	29	29.75	29.95
16	OVC	018				49	45	47	86	14	07	30.02	30.21	16	CLR	NC				66	28	49	24	16	31	29.72	29.91
19	OVC	012				44	43	44	96	12	07	30.07	30.26	19	CLR	NC				62	29	47	29	8	31	29.74	29.93
22	OVC	010				42	42	42	100	16	05	30.08	30.27	22	CLR	NC				53	34	44	49	7	33	29.80	29.99
SUNRISE: 0531      APR 18      SUNSET: 1847												SUNRISE: 0523      APR 24      SUNSET: 1853															
01	OVC	006			5.00	-DZ	42	42	42	100	9	04	30.07	30.27	01	CLR	NC			47	33	41	59	9	36	29.83	30.03
04	OVC	004			2.00	-DZ	42	42	42	100	9	03	30.07	30.26	04	CLR	NC			41	31	37	67	7	36	29.85	30.04
07	OVC	005			2.50	BR	43	43	43	100	12	04	30.10	30.29	07	CLR	NC			47	28	39	48	10	36	29.91	30.11
10	OVC	005			2.50	-DZ	45	45	45	100	14	03	30.14	30.34	10	CLR	NC			59	21	43	23	12	32	29.89	30.09
13	OVC	006			10.00		47	47	47	100	12	05	30.12	30.32	13	BKN	250			65	23	47	20	8	24	29.84	30.03
16	OVC	004			2.00	BR	48	48	48	100	9	02	30.10	30.30	16	OVC	200			67	29	49	24	7	34	29.77	29.96
19	OVC	004			3.00	BR	48	48	48	100	9	02	30.11	30.30	19	OVC	250			59	42	51	54	6	12	29.76	29.95
22	OVC	004			4.00	-RA	48	48	48	100	8	02	30.15	30.34	22	OVC	250			53	39	46	59	3	14	29.76	29.95

# OBSERVATIONS AT 3-HOURLY INTERVALS

# RICHMOND, VA

APRIL 2003

RIC

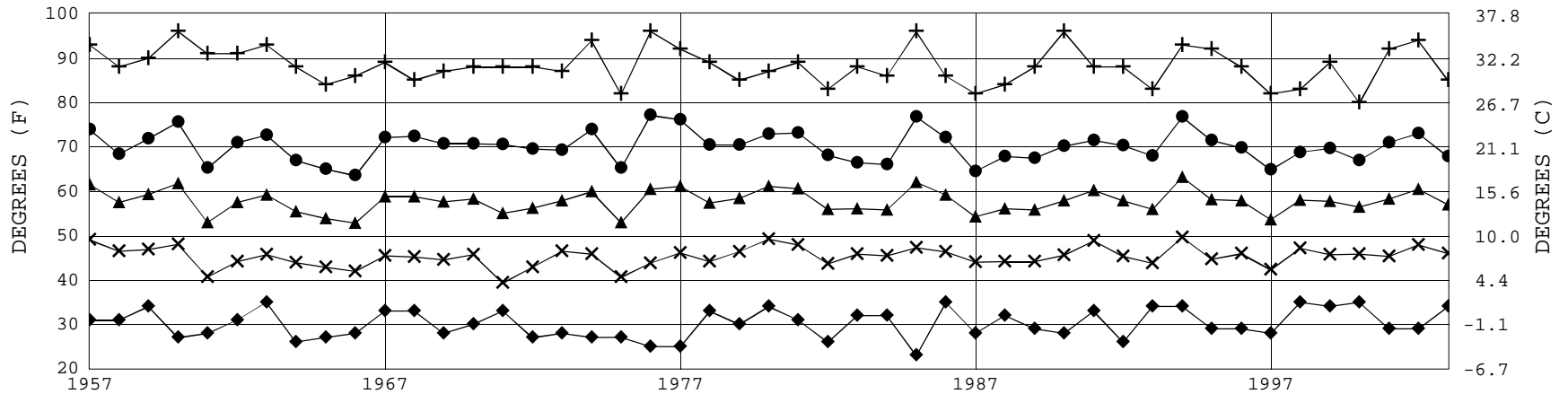
WBAN # 13740

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)
<b>SUNRISE: 0522</b>				<b>APR 25</b>				<b>SUNSET: 1853</b>				<b>SUNRISE: APR 31</b>				<b>SUNSET:</b>								
01	OVC	150		10.00	52	43	48	72	6	13	29.73	29.92												
04	OVC	130		10.00	52	46	49	80	3	13	29.70	29.89												
07	OVC	120		10.00	56	51	53	84	10	18	29.70	29.90												
10	OVC	070		10.00	63	51	56	65	5	19	29.70	29.89												
13	OVC	055		10.00	63	53	57	70	5	17	29.65	29.85												
16	OVC	032		3.00	57	57	57	100	3	07	29.62	29.81												
19	OVC	009		5.00	57	57	57	100	6	09	29.57	29.76												
22	OVC	005		6.00	58	58	58	100	6	13	29.53	29.71												
<b>SUNRISE: 0521</b>				<b>APR 26</b>				<b>SUNSET: 1854</b>				<b>3-HOURLY OBSERVATION NOTES</b>												
01	OVC	005		2.00	57	57	57	100	9	07	29.45	29.63	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	OVC	001		0.75	57	57	57	100	6	03	29.42	29.60	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.											
07	OVC	003		4.00	57	57	57	100	6	36	29.46	29.64	NC= No ceiling detected.											
10	OVC	007		10.00	60	60	60	100	8	26	29.51	29.69	& = Original observation contained additional weather elements.											
13	OVC	018		10.00	64	60	62	87	3	36	29.50	29.68	See page 3 for additional notes.											
16	OVC	023		10.00	65	60	62	84	12	03	29.46	29.64												
19	OVC	100		10.00	62	60	61	93	8	02	29.52	29.70												
22	OVC	022		9.00	60	59	59	96	6	36	29.59	29.78												
<b>SUNRISE: 0519</b>				<b>APR 27</b>				<b>SUNSET: 1855</b>																
01	BKN	070		4.00	58	58	58	100	9	36	29.62	29.82												
04	SCT	NC		3.00	54	54	54	100	0	00	29.67	29.86												
07	FEW	NC		5.00	57	55	56	93	9	36	29.77	29.96												
10	SCT	NC		10.00	65	55	59	70	10	04	29.80	29.99												
13	CLR	NC		10.00	72	50	60	46	12	34	29.79	29.98												
16	CLR	NC		10.00	74	47	59	38	8	32	29.78	29.98												
19	FEW	NC		10.00	67	46	56	47	3	02	29.81	30.01												
22	CLR	NC		10.00	55	48	51	77	0	00	29.86	30.05												
<b>SUNRISE: 0518</b>				<b>APR 28</b>				<b>SUNSET: 1856</b>																
01	CLR	NC		10.00	50	49	49	96	0	00	29.86	30.05												
04	CLR	NC		10.00	48	47	47	96	0	00	29.86	30.06												
07	BKN	001		0.50	50	50	50	100	5	20	29.92	30.11												
10	CLR	NC		10.00	68	56	61	66	6	VR	29.91	30.10												
13	CLR	NC		10.00	76	55	63	48	10	15	29.85	30.04												
16	SCT	NC		10.00	79	58	66	49	12	19	29.76	29.95												
19	CLR	NC		10.00	70	58	63	66	8	19	29.75	29.94												
22	CLR	NC		10.00	63	57	60	81	9	20	29.76	29.95												
<b>SUNRISE: 0517</b>				<b>APR 29</b>				<b>SUNSET: 1857</b>																
01	CLR	NC		10.00	62	55	58	78	8	20	29.74	29.93												
04	CLR	NC		10.00	58	53	55	84	6	21	29.72	29.91												
07	SCT	NC		10.00	59	55	57	87	5	20	29.74	29.93												
10	FEW	NC		10.00	75	58	65	55	7	27	29.74	29.93												
13	OVC	100		10.00	79	58	66	49	9	33	29.71	29.91												
16	BKN	100		10.00	79	60	67	52	12	01	29.70	29.88												
19	SCT	NC		10.00	74	59	65	60	0	00	29.72	29.91												
22	CLR	NC		10.00	62	59	60	90	3	15	29.78	29.97												
<b>SUNRISE: 0516</b>				<b>APR 30</b>				<b>SUNSET: 1858</b>																
01	CLR	NC		7.00	59	58	58	96	3	05	29.80	29.99												
04	OVC	050		7.00	59	58	58	96	0	00	29.83	30.02												
07	SCT	NC		9.00	63	56	59	78	7	04	29.88	30.07												
10	SCT	NC		10.00	73	51	61	46	7	09	29.92	30.11												
13	SCT	NC		10.00	78	57	65	48	0	00	29.90	30.09												
16	BKN	250		9.00	80	62	69	54	12	15	29.84	30.03												
19	OVC	250		8.00	70	59	63	68	12	11	29.85	30.04												
22	OVC	042		4.00	65	59	61	81	5	06	29.95	30.14												

## 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			52	46	49	84	29.84	30.03	8.70	8	1	1
02			51	46	48	86	29.83	30.02	8.40	7	1	34
03			50	46	48	88	29.83	30.02	7.92	7	1	34
04			49	46	47	89	29.83	30.02	7.44	6	2	36
05			49	45	47	89	29.84	30.03	7.31	6	2	36
06			49	45	47	89	29.85	30.04	7.12	7	3	2
07			51	46	48	86	29.87	30.06	7.42	9	3	2
08			53	46	50	80	29.88	30.07	7.87	9	4	1
09			56	47	51	75	29.88	30.07	8.36	9	5	1
10			59	47	52	68	29.88	30.07	8.92	10	4	36
11			61	46	53	64	29.87	30.06	8.90	10	2	1
12			62	47	54	62	29.86	30.05	9.33	9	2	36
13			64	48	55	60	29.84	30.03	9.67	11	2	33
14			65	48	56	59	29.82	30.01	9.67	11	2	34
15			66	48	56	59	29.80	29.99	9.45	11	3	35
16			66	48	56	59	29.79	29.98	9.20	12	1	32
17			65	48	56	60	29.79	29.98	8.68	12	1	8
18			63	48	55	63	29.79	29.98	8.66	11	1	10
19			60	48	54	68	29.80	29.99	8.67	9	2	12
20			57	49	53	76	29.82	30.01	8.47	8	2	12
21			56	48	52	78	29.83	30.02	8.55	9	2	11
22			55	48	51	81	29.84	30.03	8.70	8	0	0
23			54	48	51	82	29.84	30.03	8.53	8	1	7
24			53	48	50	83	29.84	30.03	8.60	8	1	36

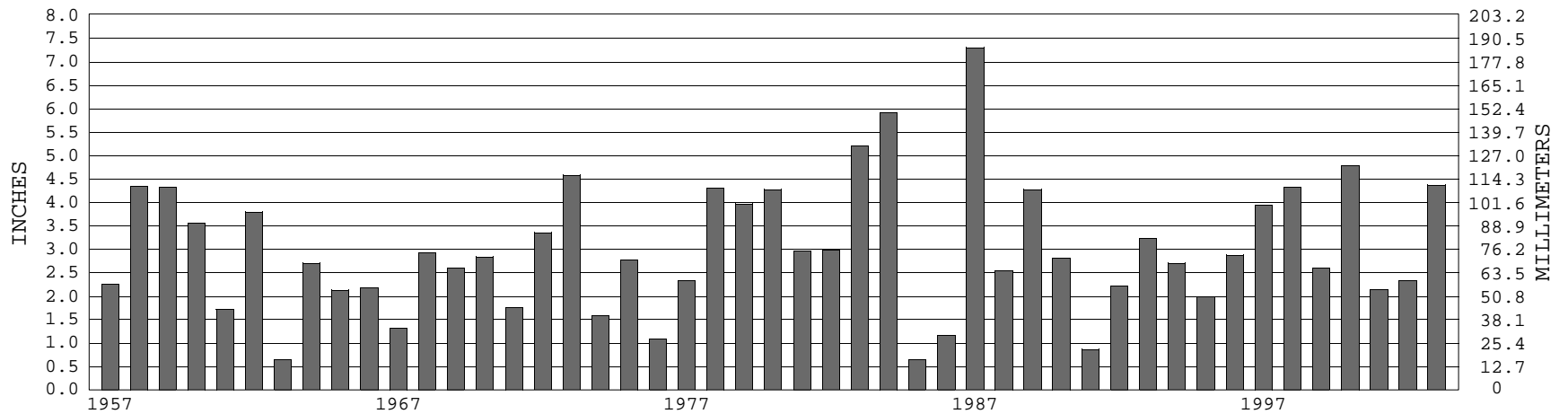
### RICHMOND, VA APRIL TEMPERATURES



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

Long-Term (1957-2003) Mean: 57.7      1961-1990 Normal: 57.1

### RICHMOND, VA APRIL PRECIPITATION



Long-Term (1957-2003) Mean Monthly Total: 3.01

1961-1990 Normal: 3.18



APRIL 2003  
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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