



# APRIL 1997

## 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

APRIL 1997  
RICHMOND, VA

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	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	61	39	50	-3	17	37	15	0	SN	0		T	T	29.78	29.98	19.6	34	19.9	44*	33	33	35	01							
02	68	35	52	-1	23	41	13	0		0		0.0	0.00	30.03	30.23	8.8	34	8.0	21	34	17	32	02							
03	72	39	56	2	29	45	9	0		0		0.0	0.00	29.93	30.13	7.2	33	5.3	18	25	14	23	03							
04	82*	44	63	9	38	52	2	0		0		0.0	0.00	29.87	30.07	6.1	30	5.4	22	32	17	32	04							
05	74	51	63	9	47	54	2	0	RA	0		0.0	T	29.94	30.14	5.6	11	6.6	20	12	17	13	05							
06	72	51	62	7	58	61	3	0	RA	0		0.0	0.10	29.78	29.98	10.5	20	10.9	29	22	23	22	06							
07	78	55	67*	12	44	56	0	2	BR	0		0.0	0.00	29.67	29.87	9.2	27	11.1	29	27	24	27	07							
08	65	41	53	-2	23	42	12	0		0		0.0	0.00	29.88	30.08	7.0	28	9.5	21	23	17	20	08							
09	53	32	43	-12	19	34	22	0		0		0.0	0.00	29.96	30.16	13.5	35	14.3	31	36	26	01	09							
10	52	28*	40*	-16	14	30	25	0		0		0.0	0.00	30.13	30.34	11.2	36	6.4	26	01	22	01	10							
11	68	35	52	-4	29	42	13	0		0		0.0	0.00	30.05	30.25	4.5	18	8.0	22	19	18	19	11							
12	61	53	57	1	54	56	8	0	RA BR	0		0.0	0.45	29.71	29.91	10.4	18	10.7	32	18	26	18	12							
13	74	46	60	3	44	54	5	0	RA BR	0		0.0	0.05	29.52	29.72	10.6	27	13.1	36	25	28	26	13							
14	59	40	50	-7	25	39	15	0		0		0.0	0.00	29.98	30.19	8.0	33	7.6	23	01	21	34	14							
15	63	34	49	-8	29	42	16	0		0		0.0	0.00	30.08	30.29	8.9	35	3.6	16	35	14	35	15							
16	72	39	56	-1	36	47	9	0		0		0.0	0.00	29.91	30.12	9.7	21	10.8	30	21	22	21	16							
17	59	43	51	-7	39	46	14	0	RA BR	0		0.0	0.26	29.56	29.76	4.2	31	9.3	40	36	36*	36	17							
18	57	38	48	-10	22	38	17	0		0		0.0	0.00	29.41	29.62	16.8	32	17.2	38	33	31	32	18							
19	66	41	54	-4	21	40	11	0		0		0.0	0.00	29.42	29.63	9.5	30	9.9	30	31	22	32	19							
20	68	36	52	-6	28	42	13	0		0		0.0	0.00	29.58	29.78	7.6	30	4.0	20	29	16	25	20							
21	55	41	48	-11	46	48	17	0	RA FG+ BR	0		0.0	0.19	29.58	29.79	1.3	05	5.0	15	01	13	01	21							
22	55	44	50	-9	45	47	15	0	RA DZ FG+ BR HZ	0		0.0	0.07	29.49	29.69	5.8	02	5.5	15	08	13	02	22							
23	48	43	46	-14	45	45	19	0	RA BR	0		0.0	0.50	29.39	29.60	9.4	04	9.5	25	05	20	05	23							
24	62	43	53	-7	39	45	12	0	RA	0		0.0	0.06	29.51	29.72	7.1	35	8.8	23	01	18	36	24							
25	66	44	55	-5	41	48	10	0	RA	0		0.0	T	29.84	30.04	5.7	32	5.4	26	34	21	35	25							
26	69	43	56	-5	39	49	9	0		0		0.0	0.00	30.05	30.25	5.9	33	5.0	20	01	15	02	26							
27	61	49	55	-6	47	51	10	0	RA BR	0		0.0	0.77	29.90	30.10	4.4	14	6.9	23	14	20	14	27							
28	62	51	57	-4	54	54	8	0	RA BR	0		0.0	1.16	29.51	29.71	2.0	29	6.9	23	02	17	02	28							
29	68	47	58	-3	42	49	7	0	RA BR	0		0.0	0.33	29.65	29.85	5.4	01	4.7	21	03	16	02	29							
30	75	43	59	-2	47	54	6	0	BR	0		0.0	0.00	29.68	29.88	7.3	18	8.9	21	18	18	18	30							
< MONTHLY AVERAGES											TOTALS-->		T	3.94	29.76	29.96	4.1	32	8.6	<- MONTHLY AVERAGES										
-5.2											-2.3		-3.7		DEPARTURE FROM NORMAL											0.98	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3			
DEGREE DAYS											GREATEST 24-HR PRECIPITATION: 1.43 DATE: 27-28				SEA LEVEL PRESSURE DATE TIME															
MONTHLY TOTAL DEPARTURE											GREATEST 24-HR SNOWFALL: T DATE: 01				MAXIMUM : 30.41 10 0947															
SEASON TO DATE TOTAL DEPARTURE											GREATEST SNOW DEPTH: 0 DATE:				MINIMUM : 29.52 24 0258															
HEATING: 337 96 3747 -155											NUMBER OF DAYS WITH =>		MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 2		PRECIPITATION ≥ 0.01 INCH : 11													
COOLING: 2 -8 6 -4													MAXIMUM TEMP ≤ 32 : 0		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 8													
													THUNDERSTORMS : 0		HEAVY FOG : 2		SNOWFALL ≥ 1.0 INCH : 0													

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## RICHMOND, VA

APRIL 1997

RIC

WBAN # 13740

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note 2)	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	T	T											01												01		T		
02													02												02		0.00		
03													03												03		0.00		
04													04												04	T	0.00		
05													05												05		0.00		
06													06												06		0.10		
07													07												07		0.00		
08													08												08		0.00		
09													09												09		0.00		
10													10												10		0.00		
11													11												11		0.00		
12													12												12		0.45		
13													13												13		0.05		
14													14												14		0.16		
15													15												15		0.14		
16													16												16		0.02		
17													17												17		0.01		
18													18												18		0.01		
19													19												19		T		
20													20												20		T		
21													21												21		0.01		
22													22												22		0.01		
23													23												23		0.01		
24													24												24		0.01		
25													25												25		0.01		
26													26												26		0.01		
27													27												27		0.01		
28													28												28		0.01		
29													29												29		0.01		
30													30												30		0.01		
01													01												01		0.03		
02													02												02		T		
03													03												03		0.03		
04													04												04		0.03		
05													05												05		0.03		
06													06												06		0.03		
07													07												07		0.03		
08													08												08		0.03		
09													09												09		0.03		
10													10												10		0.03		
11													11												11		0.03		
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16													16												16		0.03		
17													17												17		0.03		
18													18												18		0.03		
19													19												19		0.03		
20													20												20		0.03		
21													21												21		0.03		
22													22												22		0.03		
23													23												23		0.03		
24													24												24		0.03		
25													25												25		0.03		
26													26												26		0.03		
27													27												27		0.03		
28													28												28		0.03		
29													29												29		0.03		
30													30												30		0.03		

### MAXIMUM SHORT DURATION PRECIPITATION (See Note 1)

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 1: NCDC derives these data from one-minute ASOS values. The table is not printed when inconsistent with ASOS hourly totals.

Note 2: 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 1961–1990

### 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	PE 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 1997

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 at constant pressure by evaporation of moisture into it, to 100% relative humidity.

ADDITIONAL NOTES:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							9.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							7.00	10.00	
07							6.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							2.00	10.00	
13							2.50	10.00	
14							10.00	10.00	
15							8.00	10.00	
16							10.00	10.00	
17							3.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							.25	10.00	
22							.25	10.00	
23							1.50	6.00	
24							7.00	10.00	
25							7.00	10.00	
26							10.00	10.00	
27							2.00	10.00	
28							2.00	10.00	
29							3.00	10.00	
30							2.50	10.00	
<b>MONTHLY AVGS</b>							6.77	9.87	
<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 2            10            19									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# RICHMOND, VA

APRIL 1997

RIC

WBAN # 13740

HOUR (LST)	≤ 12K FEET		SATELLITE		WEATHER	TEMPERATURE °F			WIND	PRESSURE (INCHES, HG)		HOUR (LST)	≤ 12K FEET		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		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)
						SUNRISE: 0555	APR 01	SUNSET: 1832					SUNRISE: 0546	APR 07	SUNSET: 1838													
01	OVC	041			-SN	39	24	33	55	20	33	29.56	29.77	01	OVC	008			7.00	64	63	63	96	8	22	29.66	29.86	
04	SCT	NC				40	21	33	47	25	33	29.59	29.79	04	OVC	014			10.00	65	62	63	90	12	23	29.62	29.82	
07	CLR	NC				40	19	32	43	22	33	29.69	29.89	07	BKN	010	BR		6.00	64	62	63	93	9	22	29.65	29.85	
10	CLR	NC				48	19	37	32	25	34	29.75	29.96	10	SCT	NC			10.00	73	59	64	62	13	28	29.67	29.87	
13	CLR	NC				59	11	41	15	22	35	29.79	29.99	13	FEW	NC			10.00	76	39	57	27	16	28	29.64	29.84	
16	CLR	NC				60	10	42	14	25	01	29.83	30.03	16	FEW	NC			10.00	75	28	53	18	18	28	29.63	29.83	
19	CLR	NC				56	15	40	20	16	34	29.90	30.10	19	CLR	NC			10.00	67	24	48	20	6	32	29.69	29.89	
22	CLR	NC				50	19	38	29	12	32	29.97	30.17	22	CLR	NC			10.00	59	25	44	27	8	32	29.79	29.98	
						SUNRISE: 0553	APR 02	SUNSET: 1833					SUNRISE: 0544	APR 08	SUNSET: 1838													
01	CLR	NC				44	20	35	38	6	33	30.04	30.24	01	CLR	NC			10.00	53	20	40	27	13	32	29.84	30.04	
04	CLR	NC				42	20	34	41	5	32	30.05	30.26	04	CLR	NC			10.00	46	19	36	34	8	32	29.90	30.10	
07	CLR	NC				44	22	36	41	8	33	30.11	30.32	07	CLR	NC			10.00	47	21	37	36	7	32	29.97	30.17	
10	CLR	NC				57	21	42	25	12	36	30.11	30.32	10	CLR	NC			10.00	56	19	41	24	9	30	29.98	30.18	
13	CLR	NC				64	19	45	18	14	36	30.03	30.23	13	CLR	NC			10.00	60	21	44	22	6	29	29.90	30.10	
16	CLR	NC				67	22	48	18	15	32	29.96	30.16	16	CLR	NC			10.00	64	23	46	21	8	27	29.82	30.02	
19	CLR	NC				62	24	46	23	3	30	29.96	30.16	19	CLR	NC			10.00	58	26	44	30	9	22	29.81	30.01	
22	CLR	NC				50	30	41	46	0	00	29.99	30.19	22	CLR	NC			10.00	53	29	43	40	8	23	29.81	30.01	
						SUNRISE: 0552	APR 03	SUNSET: 1834					SUNRISE: 0543	APR 09	SUNSET: 1839													
01	CLR	NC				47	30	40	52	3	29	29.99	30.19	01	CLR	NC			10.00	52	28	42	40	8	28	29.80	30.00	
04	CLR	NC				43	31	38	63	3	33	29.97	30.17	04	CLR	NC			10.00	43	30	38	60	12	02	29.86	30.06	
07	CLR	NC				44	32	39	63	0	00	30.00	30.20	07	FEW	NC			10.00	38	21	32	51	18	01	29.96	30.16	
10	CLR	NC				63	24	46	23	9	36	30.01	30.21	10	SCT	NC			10.00	41	19	33	41	13	33	29.98	30.19	
13	CLR	NC				68	28	50	22	5	VR	29.94	30.14	13	FEW	NC			10.00	48	20	37	33	15	34	29.93	30.13	
16	CLR	NC				71	26	50	19	8	24	29.85	30.06	16	FEW	NC			10.00	48	15	36	27	17	35	29.94	30.14	
19	CLR	NC				63	28	47	27	7	19	29.85	30.06	19	CLR	NC			10.00	41	10	31	28	15	35	30.01	30.21	
22	CLR	NC				57	30	45	36	6	19	29.85	30.06	22	CLR	NC			10.00	36	13	29	39	8	34	30.09	30.29	
						SUNRISE: 0550	APR 04	SUNSET: 1835					SUNRISE: 0542	APR 10	SUNSET: 1840													
01	FEW	NC				55	28	43	36	8	22	29.85	30.06	01	CLR	NC			10.00	32	15	27	50	6	35	30.11	30.32	
04	CLR	NC				47	32	41	56	3	18	29.84	30.05	04	CLR	NC			10.00	28	16	24	61	7	36	30.12	30.33	
07	CLR	NC				51	32	43	48	0	00	29.88	30.09	07	CLR	NC			10.00	31	14	26	49	12	01	30.17	30.38	
10	FEW	NC				74	35	54	24	12	27	29.92	30.12	10	CLR	NC			10.00	38	12	30	34	10	04	30.20	30.40	
13	FEW	NC				79	41	59	26	13	33	29.86	30.06	13	CLR	NC			10.00	45	10	33	24	0	00	30.15	30.35	
16	SCT	NC				81	40	59	23	16	31	29.83	30.03	16	CLR	NC			10.00	51	9	37	18	9	26	30.09	30.29	
19	CLR	NC				73	42	57	33	0	00	29.84	30.05	19	CLR	NC			10.00	47	13	35	25	3	16	30.09	30.29	
22	CLR	NC				62	46	54	56	0	00	29.90	30.10	22	CLR	NC			10.00	38	20	32	48	0	00	30.13	30.34	
						SUNRISE: 0549	APR 05	SUNSET: 1836					SUNRISE: 0540	APR 11	SUNSET: 1841													
01	CLR	NC				59	46	52	62	3	08	29.91	30.11	01	CLR	NC			10.00	36	23	31	59	0	00	30.14	30.35	
04	CLR	NC				60	46	53	60	0	00	29.89	30.09	04	OVC	120			10.00	39	25	34	57	3	09	30.12	30.33	
07	CLR	NC				58	48	53	70	0	00	29.96	30.16	07	OVC	080			10.00	41	28	36	60	0	00	30.15	30.36	
10	CLR	NC				69	49	58	49	5	09	29.99	30.19	10	OVC	075			10.00	52	25	41	35	12	20	30.15	30.35	
13	CLR	NC				72	46	58	40	13	09	29.96	30.16	13	FEW	NC			10.00	62	28	47	28	13	19	30.05	30.25	
16	CLR	NC				66	46	55	49	12	09	29.93	30.13	16	FEW	NC			10.00	67	30	50	25	14	19	29.97	30.17	
19	CLR	NC				58	44	51	60	9	11	29.93	30.13	19	CLR	NC			10.00	60	33	48	36	9	15	29.92	30.12	
22	CLR	NC				53	47	50	80	6	12	29.92	30.12	22	CLR	NC			10.00	53	32	44	45	8	15	29.96	30.16	
						SUNRISE: 0547	APR 06	SUNSET: 1837					SUNRISE: 0539	APR 12	SUNSET: 1842													
01	CLR	NC				54	49	51	83	7	14	29.87	30.07	01	CLR	NC			10.00	54	46	50	75	13	19	29.93	30.14	
04	CLR	NC				62	55	58	78	13	20	29.81	30.01	04	BKN	110			10.00	56	51	53	84	9	19	29.88	30.08	
07	BKN	024				63	56	59	78	13	19	29.85	30.05	07	OVC	060			10.00	57	52	54	83	13	18	29.86	30.06	
10	BKN	090			-RA	65	62	63	90	10	20	29.85	30.05	10	BKN	050			8.00	59	55	57	87	10	19	29.82	30.02	
13	BKN	080				70	62	65	76	14	22	29.79	29.99	13	OVC	024			5.00	60	57	58	90	9	16	29.71	29.91	
16	BKN	100			-RA	65	63	64	93	12	19	29.74	29.95	16	OVC	027			10.00	60	57	58	90	18	18	29.57	29.78	

# OBSERVATIONS AT 3-HOURLY INTERVALS

# RICHMOND, VA

APRIL 1997

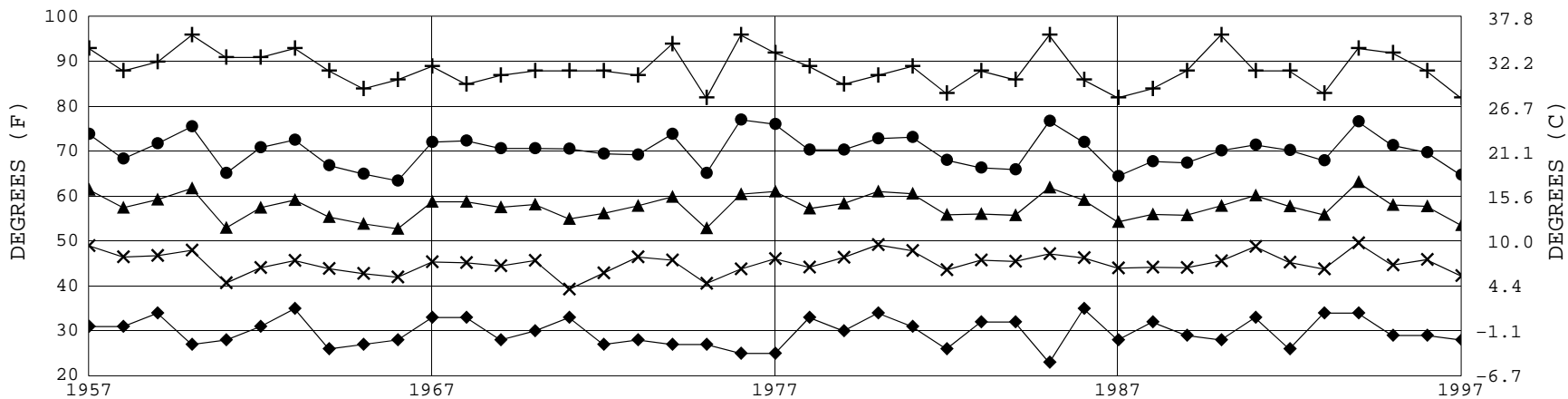
RIC

WBAN # 13740

HOUR (LST)	≤ 12K FEET		SATELLITE		WEATHER	TEMPERATURE °F			WIND	PRESSURE (INCHES, HG)		HOUR (LST)	≤ 12K FEET		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		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				
SUNRISE: 0537						APR 13						SUNSET: 1843						SUNRISE: 0529						APR 19						SUNSET: 1848					
01	OVC	003			8.00	60	59	59	96	9	25	29.46	29.66	01	CLR	NC			10.00	47	19	36	33	12	29	29.39	29.59								
04	OVC	011			8.00	60	59	59	96	9	24	29.45	29.65	04	CLR	NC			10.00	41	22	34	47	6	27	29.41	29.61								
07	OVC	085			2.50	60	59	59	96	6	18	29.47	29.67	07	CLR	NC			10.00	45	22	36	40	7	26	29.44	29.65								
10	CLR	NC			10.00	68	31	50	25	9	28	29.47	29.67	10	CLR	NC			10.00	56	19	41	24	18	29	29.43	29.63								
13	FEW	NC			10.00	71	67	68	87	20	24	29.45	29.65	13	CLR	NC			10.00	63	20	45	19	13	30	29.39	29.59								
16	FEW	NC			10.00	71	35	53	27	25	26	29.47	29.66	16	CLR	NC			10.00	65	20	46	18	14	28	29.36	29.56								
19	FEW	NC			10.00	59	29	46	32	20	31	29.58	29.78	19	CLR	NC			10.00	58	20	42	23	6	35	29.42	29.63								
22	FEW	NC			10.00	49	26	40	41	15	32	29.73	29.94	22	CLR	NC			10.00	46	26	38	46	6	36	29.49	29.70								
SUNRISE: 0536						APR 14						SUNRISE: 0528						APR 20						SUNSET: 1849											
01	CLR	NC			10.00	45	28	38	52	8	30	29.81	30.01	01	CLR	NC			10.00	40	28	35	63	0	00	29.53	29.73								
04	CLR	NC			10.00	41	26	35	55	10	36	29.89	30.09	04	CLR	NC			10.00	38	30	35	73	0	00	29.55	29.75								
07	CLR	NC			10.00	43	20	35	40	13	35	29.99	30.19	07	CLR	NC			10.00	45	30	39	56	5	01	29.59	29.79								
10	FEW	NC			10.00	50	25	40	38	9	34	30.04	30.24	10	CLR	NC			10.00	57	30	45	36	7	29	29.61	29.81								
13	CLR	NC			10.00	54	24	42	31	6	VR	30.00	30.21	13	CLR	NC			10.00	63	27	47	26	3	VR	29.58	29.78								
16	CLR	NC			10.00	58	22	43	25	7	01	29.98	30.18	16	CLR	NC			10.00	67	20	47	17	8	32	29.54	29.74								
19	FEW	NC			10.00	52	24	41	34	5	01	30.01	30.21	19	CLR	NC			10.00	60	23	44	24	6	07	29.57	29.78								
22	CLR	NC			10.00	43	32	38	65	5	11	30.05	30.26	22	CLR	NC			10.00	49	32	42	52	6	15	29.64	29.85								
SUNRISE: 0534						APR 15						SUNRISE: 0526						APR 21						SUNSET: 1850											
01	CLR	NC			10.00	42	32	38	68	0	00	30.08	30.29	01	CLR	NC			10.00	45	35	41	68	0	00	29.65	29.85								
04	CLR	NC			10.00	38	32	36	79	0	00	30.09	30.30	04	CLR	NC			10.00	44	39	42	83	3	16	29.63	29.83								
07	CLR	NC			8.00	42	32	38	68	0	00	30.13	30.33	07	OVC	090			10.00	47	40	44	77	3	10	29.63	29.83								
10	CLR	NC			10.00	56	26	43	32	3	VR	30.14	30.35	10	OVC	090			10.00	53	44	49	72	8	14	29.60	29.80								
13	CLR	NC			10.00	60	26	45	27	3	15	30.09	30.29	13	OVC	043			7.00	-RA	55	51	53	88	6	12	29.58	29.78							
16	FEW	NC			10.00	62	26	46	25	5	VR	30.04	30.24	16	OVC	020			2.00	BR	53	53	53	100	7	36	29.53	29.73							
19	CLR	NC			10.00	56	28	44	34	3	04	30.05	30.25	19	OVC	005			2.00	BR	51	50	51	96	7	36	29.53	29.73							
22	CLR	NC			10.00	47	31	40	54	7	14	30.08	30.28	22	OVC	002			0.50	BR	50	50	50	100	8	02	29.55	29.75							
SUNRISE: 0533						APR 16						SUNRISE: 0525						APR 22						SUNSET: 1851											
01	CLR	NC			10.00	43	32	38	65	5	18	30.07	30.28	01	VV	001			0.25	DZ FG	47	47	47	99	9	04	29.47	29.67							
04	CLR	NC			10.00	43	32	38	65	0	00	30.05	30.25	04	OVC	005			2.00	BR	47	47	47	99	6	04	29.47	29.67							
07	CLR	NC			10.00	46	32	40	58	7	20	30.06	30.27	07	OVC	006			2.00	-RA BR	46	46	46	100	10	02	29.48	29.68							
10	CLR	NC			10.00	61	38	50	43	10	23	30.01	30.21	10	OVC	012			6.00	-RA BR	48	47	48	97	10	01	29.51	29.71							
13	SCT	NC			10.00	69	37	53	31	17	21	29.90	30.10	13	OVC	020			10.00	54	45	49	71	5	09	29.48	29.68								
16	SCT	NC			10.00	69	37	53	31	14	21	29.80	30.00	16	OVC	034			10.00	54	50	52	87	5	01	29.50	29.70								
19	FEW	NC			10.00	62	38	50	41	10	20	29.77	29.97	19	CLR	NC			10.00	51	50	51	96	3	10	29.50	29.70								
22	CLR	NC			10.00	60	37	49	42	13	19	29.75	29.95	22	CLR	NC			5.00	HZ	44	36	40	73	3	13	29.50	29.70							
SUNRISE: 0532						APR 17						SUNRISE: 0524						APR 23						SUNSET: 1852											
01	CLR	NC			10.00	56	41	49	57	14	19	29.70	29.90	01	OVC	070			4.00	BR	47	46	46	97	0	00	29.51	29.71							
04	CLR	NC			10.00	53	44	49	72	9	21	29.62	29.83	04	OVC	080			1.50	BR	47	46	46	97	6	05	29.40	29.60							
07	SCT	NC			10.00	54	45	49	72	5	23	29.61	29.81	07	OVC	029			1.50	-RA BR	48	47	47	96	7	03	29.44	29.64							
10	SCT	NC			10.00	58	40	49	51	7	03	29.58	29.78	10	OVC	020			3.00	-RA BR	47	45	46	93	10	06	29.41	29.62							
13	OVC	035			3.00	50	48	49	92	9	29	29.55	29.76	13	OVC	010			1.75	-RA BR	46	45	46	96	13	03	29.38	29.59							
16	SCT	NC			10.00	57	31	45	37	9	32	29.46	29.67	16	OVC	015			3.00	-RA BR	45	44	45	97	13	04	29.36	29.57							
19	OVC	100			3.00	45	31	39	58	12	36	29.50	29.71	19	OVC	006			3.00	-RA BR	44	43	44	96	13	03	29.35	29.56							
22	OVC	090			10.00	46	31	40	56	14	32	29.50	29.70	22	OVC	008			3.00	-RA BR	43	42	43	97	14	02	29.36	29.57							
SUNRISE: 0530						APR 18						SUNRISE: 0523						APR 24						SUNSET: 1853											
01	OVC	095			10.00	42	27	36	55	14	33	29.50	29.71	01	OVC	013			10.00	-RA	43	32	38	65	10	36	29.33	29.54							
04	OVC	110			10.00	38	24	33	57	8	30	29.46	29.66	04	OVC	010			9.00	-RA	43	36	40	76	10	35	29.34	29.54							
07	OVC	085			10.00	40	26	35	58	15	31	29.46	29.66	07	OVC	070			9.00	-RA	44	40	42	85	9	35	29.42	29.63							
10	BKN	055			10.00	47	27	39	46	23	32	29.43	29.63	10	SCT	NC			10.00	54	38	46	55	14	02	29.49	29.69								
13	BKN	070			10.00	52	20	40	29	28	34	29.38	29.58	13	SCT	NC			10.00	56	39	48	53	9	29	29.53	29.74								
16	SCT	NC			10.00	57	22	43	26	20	31	29.34	29.55	16	BKN	090			10.00	62	39	51	43	7	27	29.55	29.75								
19	CLR	NC			10.00	53	15	39	22	17	31	29.38	29.58	19	BKN	100			10.00	53	44	49	72	3	10	29.63	29.83								
22	CLR	NC			10.00	50	17	38	27	16	29	29.40	29.60	22	CLR	NC			10.00	48	39	44	71	5	20	29.69	29.89								



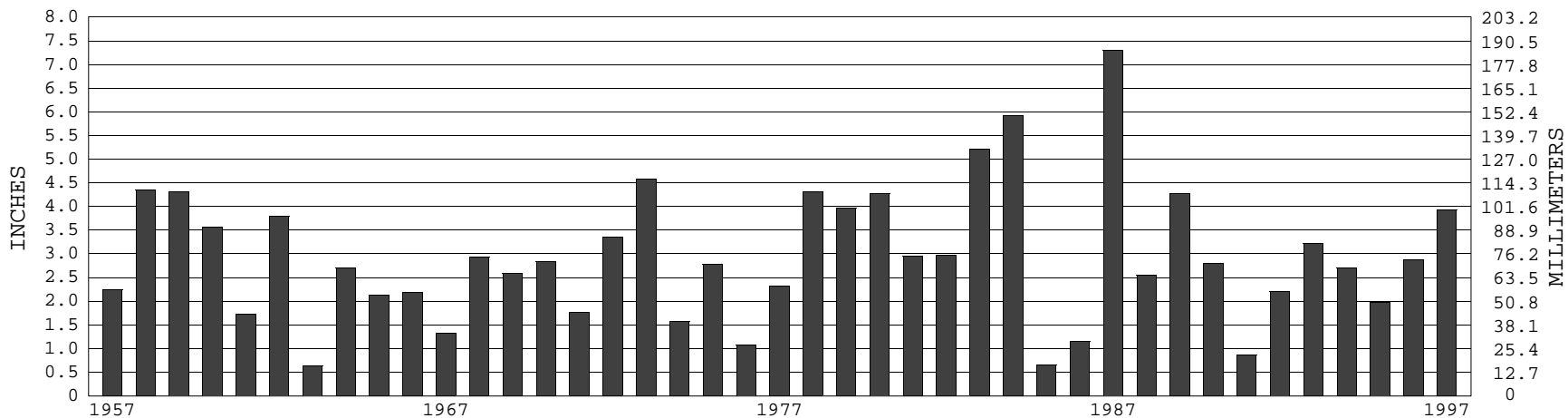
### RICHMOND, VA APRIL TEMPERATURES



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

Long-Term (1957-1997) Mean: 57.7      1961-1990 Normal: 57.3

### RICHMOND, VA APRIL PRECIPITATION



Long-Term (1957-1997) Mean Monthly Total: 2.95

1961-1990 Normal: 2.96



**APRIL 1997**  
**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.*

*Kenneth D Hadean*

DIRECTOR

## NOTICE

Effective July 1, 1996, the National Weather Service & Federal Aviation Administration began using the METAR format for Hourly Observations.

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