



JUNE 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

JUNE 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	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	81	64	73	2	68	69	0	8	TSRA RA BR HZ	0		0.0	0.62	29.61	29.81	7.5	11	8.0	17	11	14	11	01															
02	73	58	66	-5	65	66	0	1	RA DZ BR HZ	0		0.0	0.01	29.63	29.83	6.8	07	8.6	24	05	17	05	02															
03	58	51	55*	-16	54	54	10	0	RA DZ BR	0		0.0	0.63	29.73	29.93	11.4	03	11.6	25	02	20	03	03															
04	69	49	59	-12	48	52	6	0	DZ	0		0.0	T	29.76	29.97	9.4	02	10.3	26	01	21	01	04															
05	72	46*	59	-13	46	52	6	0		0		0.0	0.00	29.89	30.09	4.6	09	7.2	20	11	15	10	05															
06	66	47	57	-15	49	53	8	0	RA	0		0.0	T	29.92	30.12	8.4	07	8.8	22	07	17	07	06															
07	61	53	57	-15	50	53	8	0	RA	0		0.0	T	29.92	30.12	8.8	04	9.3	20	06	15	05	07															
08	71	48	60	-12	49	54	5	0		0		0.0	0.00	29.93	30.14	5.6	04	7.1	18	04	14	05	08															
09	76	49	63	-10	50	56	2	0	BR	0		0.0	0.00	29.99	30.19	1.9	11	4.1	16	11	13	12	09															
10	84	51	68	-5	51	59	0	3		0		0.0	0.00	29.97	30.17	1.7	18	3.8	14	18	10	24	10															
11	82	54	68	-5	56	61	0	3		0		0.0	0.00	29.84	30.04	4.3	20	5.1	20	21	16	21	11															
12	85	63	74	1	64	67	0	9	TS RA BR	0		0.0	0.01	29.64	29.84	7.3	21	7.9	24	22	18	21	12															
13	85	68	77	3	69	71	0	12	TS TSRA RA BR	0		0.0	0.58	29.49	29.68	10.0	20	10.4	31	25	24	24	13															
14	79	64	72	-2	67	69	0	7	RA BR	0		0.0	0.05	29.57	29.77	3.2	32	5.9	20	31	16	32	14															
15	79	58	69	-5	59	63	0	4	FG+ BR	0		0.0	0.00	29.76	29.96	5.7	07	7.3	20	08	16	07	15															
16	81	54	68	-6	56	61	0	3		0		0.0	0.00	29.73	29.94	3.5	18	5.1	16	19	13	13	16															
17	87	61	74	0	67	70	0	9	RA BR	0		0.0	T	29.64	29.84	4.6	20	6.8	18	23	16	21	17															
18	90	70	80	5	71	74	0	15	TSRA BR	0		0.0	0.01	29.64	29.84	11.0	21	11.3	28	21	22	21	18															
19	87	67	77	2	65	69	0	12		0		0.0	0.00	29.74	29.93	5.2	32	7.7	21	01	17	01	19															
20	91	64	78	3	65	70	0	13	BR HZ	0		0.0	0.00	29.82	30.02	5.9	19	6.7	18	21	14	23	20															
21	94	70	82	7	69	73	0	17	BR HZ	0		0.0	0.00	29.78	29.98	8.8	20	9.2	23	22	18	21	21															
22	95	71	83	8	69	73	0	18	TS RA BR HZ	0		0.0	0.02	29.75	29.95	6.1	23	8.3	21	22	17	22	22															
23	92	70	81	5	59	68	0	16	BR	0		0.0	0.00	29.92	30.11	4.9	03	6.8	18	08	16	07	23															
24	93	67	80	4	62	69	0	15		0		0.0	0.00	29.93	30.12	7.0	22	7.7	21	24	16	22	24															
25	98	69	84	8	69	74	0	19	BR HZ	0		0.0	0.00	29.82	30.02	7.2	23	8.5	18	21	16	22	25															
26	98*	71	85*	9	70	74	0	20	TS TSRA RA BR HZ	0		0.0	0.28	29.75	29.94	6.2	26	9.2	40*	25	31*	24	26															
27	88	65	77	1	63	68	0	12		0		0.0	0.00	29.86	30.06	6.3	01	7.8	18	02	16	04	27															
28	88	61	75	-1	59	65	0	10		0		0.0	0.00	29.92	30.12	4.2	09	5.9	18	10	14	14	28															
29	87	58	73	-3	58	64	0	8		0		0.0	0.00	29.94	30.14	4.5	13	5.2	21	14	18	14	29															
30	85	65	75	-2	64	68	0	10		0		0.0	0.00	29.89	30.09	4.5	14	5.1	16	14	13	10	30															
< MONTHLY AVERAGES											TOTALS-->		0.0	2.21	29.79	29.99	1.5	22	7.6	<- MONTHLY AVERAGES																		
-2.6											-2.5		-2.5		DEPARTURE FROM NORMAL											-1.41		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										
DEGREE DAYS											GREATEST 24-HR PRECIPITATION: 0.63 DATE: 3				SEA LEVEL PRESSURE				DATE TIME																			
MONTHLY											GREATEST 24-HR SNOWFALL: 0.0 DATE:				MAXIMUM				: 30.23 09 1139																			
TOTAL DEPARTURE											SEASON TO DATE				MINIMUM				: 29.61 13 1806																			
HEATING: 45 45 3909 -54											NUMBER OF DAYS WITH =>				MAXIMUM TEMP ≥ 90: 8				MINIMUM TEMP ≤ 32: 0				PRECIPITATION ≥ 0.01 INCH: 9															
COOLING: 244 -26 309 -63															MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH: 4															
															THUNDERSTORMS: 6				HEAVY FOG: 1				SNOWFALL ≥ 1.0 INCH: 0															

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA

JUNE 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													01												01			0.62	
02													02	T	0.46	0.15	0.01				T	T	T	T	02			0.01	
03	T	T	0.01	T	T	T	T	T	0.04	T	T	03	T	T	T	0.01	0.02	0.06	0.01	0.15	0.01	0.11	0.01	03			0.63		
04				T	T							04												04			T		
05												05												05			0.00		
06												06							T					06			T		
07	T	T										07												07			T		
08												08												08			0.00		
09												09												09			0.00		
10												10												10			0.00		
11												11												11			0.00		
12												12			T	T	T							12			0.01		
13												13				0.56								13			0.58		
14												14	0.03	0.02	T							T	0.02	14			0.05		
15												15												15			0.00		
16												16												16			0.00		
17	T	0.01										17		T	T	T	T							17			T		
18												18												18			0.01		
19												19												19			0.00		
20												20												20			0.00		
21												21												21			0.00		
22												22												22			0.02		
23												23												23			0.00		
24												24												24			0.00		
25												25												25			0.00		
26												26				0.07	0.01			T	0.19	0.01	T	26			0.28		
27												27												27			0.00		
28												28												28			0.00		
29												29												29			0.00		
30												30												30			0.00		

MAXIMUM SHORT DURATION PRECIPITATION (See Note 1)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.20	.31	.42	.51	.56	.56	.56	.56	.60	.61	.62	.62
Ending Date	01	01	13	13	13	13	13	13	01	01	01	01
Ending Time (Hour/Min)	1305	1309	1533	1536	1536	1536	1536	1536	1436	1441	1508	1508

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 JUNE 1997

Ceilorometer (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							.50	10.00	
02							1.00	7.00	
03							1.00	10.00	
04							2.50	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							6.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							6.00	10.00	
13							9.00	10.00	
14							2.00	10.00	
15							<.25	10.00	
16							8.00	10.00	
17							5.00	10.00	
18							4.00	10.00	
19							9.00	10.00	
20							5.00	10.00	
21							6.00	10.00	
22							5.00	10.00	
23							6.00	10.00	
24							7.00	10.00	
25							6.00	10.00	
26							6.00	10.00	
27							9.00	10.00	
28							9.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
MONTHLY AVGS							6.44	9.90	
SUNSHINE (MINUTES)									
Total: Possible:									
Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING									
30									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0									
1 6 14									

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

JUNE 1997

RIC

WBAN # 13740

HOUR (LST)	≤ 12K FEET		SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	≤ 12K FEET		SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	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	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	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL						
SUNRISE: 0450						JUN 01						SUNSET: 1924						SUNRISE: 0448						JUN 07						SUNSET: 1928					
01	SCT	NC			10.00	65	62	63	90	6	11	29.70	29.89	01	SCT	NC			10.00	-RA	53	49	51	86	12	06	29.89	30.09							
04	OVC	003			5.00	64	64	64	100	7	11	29.65	29.85	04	BKN	021			10.00		53	50	51	89	6	05	29.88	30.08							
07	OVC	001			0.50	66	66	66	100	6	10	29.64	29.84	07	OVC	016			10.00		54	50	52	87	9	04	29.91	30.11							
10	BKN	011			6.00	73	69	70	87	9	13	29.64	29.84	10	OVC	019			10.00		57	51	54	81	8	04	29.93	30.14							
13	FEW	NC			10.00	78	68	71	71	10	11	29.59	29.79	13	OVC	024			10.00		59	50	54	72	10	03	29.93	30.13							
16	SCT	NC			10.00	75	71	72	88	9	09	29.56	29.76	16	OVC	045			10.00		60	50	55	70	8	06	29.91	30.11							
19	BKN	034			10.00	72	70	71	94	6	11	29.58	29.78	19	OVC	043			10.00		56	50	53	81	9	07	29.93	30.13							
22	OVC	005			10.00	70	68	69	93	8	11	29.59	29.79	22	OVC	034			10.00		54	50	52	87	9	02	29.94	30.14							
SUNRISE: 0450						JUN 02						SUNSET: 1925						SUNRISE: 0448						JUN 08						SUNSET: 1928					
01	OVC	003			7.00	68	68	68	100	7	12	29.59	29.79	01	OVC	042			10.00		53	50	51	89	9	01	29.92	30.12							
04	OVC	003			6.00	68	68	68	100	7	11	29.58	29.78	04	CLR	NC			10.00		49	48	48	97	7	02	29.92	30.12							
07	BKN	005			3.00	69	68	68	96	3	13	29.61	29.80	07	CLR	NC			10.00		54	49	51	83	10	03	29.94	30.15							
10	OVC	013			3.00	72	68	69	87	0	00	29.64	29.83	10	SCT	NC			10.00		62	49	55	62	9	05	29.97	30.17							
13	OVC	015			5.00	72	69	70	91	12	06	29.61	29.81	13	SCT	NC			10.00		68	49	57	51	8	05	29.93	30.14							
16	OVC	004			2.00	65	64	64	97	13	05	29.62	29.82	16	BKN	060			10.00		69	47	57	45	13	04	29.90	30.11							
19	OVC	002			1.00	61	61	61	100	15	04	29.65	29.85	19	CLR	NC			10.00		65	50	57	59	6	08	29.91	30.11							
22	OVC	004			2.50	59	58	58	96	13	04	29.70	29.90	22	CLR	NC			10.00		56	51	53	84	3	13	29.95	30.16							
SUNRISE: 0449						JUN 03						SUNSET: 1925						SUNRISE: 0448						JUN 09						SUNSET: 1929					
01	OVC	006			1.00	58	57	57	97	7	03	29.69	29.89	01	CLR	NC			10.00		53	51	52	93	0	00	29.96	30.16							
04	OVC	007			10.00	56	55	55	97	13	36	29.69	29.89	04	CLR	NC			8.00		50	49	49	96	0	00	29.97	30.17							
07	OVC	007			1.50	56	55	55	97	9	05	29.72	29.93	07	CLR	NC			8.00		56	53	54	90	0	00	30.00	30.20							
10	OVC	010			2.00	55	54	54	96	15	03	29.76	29.96	10	FEW	NC			10.00		68	51	59	55	7	06	30.02	30.23							
13	OVC	010			10.00	55	53	54	93	13	04	29.74	29.94	13	FEW	NC			10.00		73	48	59	41	7	VR	30.00	30.21							
16	OVC	013			2.50	56	54	55	93	12	03	29.72	29.93	16	SCT	NC			10.00		75	47	59	37	5	VR	29.97	30.18							
19	OVC	009			2.50	54	53	53	97	13	01	29.73	29.94	19	CLR	NC			10.00		69	51	59	53	6	17	29.97	30.17							
22	OVC	010			2.50	52	51	52	97	16	04	29.77	29.97	22	CLR	NC			10.00		60	51	55	72	3	19	30.00	30.20							
SUNRISE: 0449						JUN 04						SUNSET: 1926						SUNRISE: 0448						JUN 10						SUNSET: 1929					
01	OVC	027			10.00	50	48	49	93	12	01	29.74	29.95	01	CLR	NC			10.00		55	51	53	87	3	19	30.01	30.21							
04	OVC	015			2.50	49	48	48	97	10	36	29.73	29.93	04	CLR	NC			10.00		53	49	51	86	0	00	30.00	30.20							
07	OVC	050			10.00	50	47	48	89	12	01	29.74	29.94	07	CLR	NC			10.00		64	50	56	61	5	29	30.02	30.22							
10	BKN	065			10.00	59	48	53	67	13	01	29.75	29.96	10	CLR	NC			10.00		78	51	62	39	5	VR	30.01	30.21							
13	BKN	039			10.00	66	48	56	52	14	05	29.76	29.96	13	CLR	NC			10.00		82	50	63	33	5	VR	29.97	30.17							
16	BKN	110			10.00	67	47	56	49	13	04	29.75	29.96	16	CLR	NC			10.00		83	47	62	28	8	19	29.92	30.12							
19	CLR	NC			10.00	61	49	55	65	8	06	29.78	29.99	19	CLR	NC			10.00		76	54	63	47	5	18	29.91	30.11							
22	CLR	NC			10.00	53	49	51	86	5	04	29.84	30.04	22	CLR	NC			10.00		64	55	59	73	7	14	29.94	30.14							
SUNRISE: 0449						JUN 05						SUNSET: 1927						SUNRISE: 0448						JUN 11						SUNSET: 1930					
01	CLR	NC			10.00	48	47	47	96	0	00	29.84	30.04	01	CLR	NC			10.00		60	52	56	75	0	00	29.91	30.11							
04	CLR	NC			10.00	46	45	46	96	5	01	29.83	30.03	04	CLR	NC			10.00		58	51	54	78	0	00	29.89	30.09							
07	CLR	NC			10.00	54	49	51	83	6	36	29.89	30.09	07	CLR	NC			10.00		64	56	59	75	6	20	29.90	30.10							
10	CLR	NC			10.00	64	50	56	61	10	07	29.91	30.11	10	CLR	NC			10.00		78	56	65	47	6	VR	29.88	30.08							
13	FEW	NC			10.00	69	46	57	44	12	09	29.89	30.09	13	CLR	NC			10.00		80	53	64	39	5	23	29.83	30.03							
16	CLR	NC			10.00	70	44	56	39	14	08	29.86	30.06	16	CLR	NC			10.00		79	57	66	47	12	22	29.80	30.00							
19	CLR	NC			10.00	63	47	54	56	8	16	29.90	30.10	19	CLR	NC			10.00		73	60	65	64	7	19	29.77	29.97							
22	CLR	NC			10.00	53	46	50	77	6	12	29.94	30.14	22	CLR	NC			10.00		67	59	62	76	0	00	29.76	29.96							
SUNRISE: 0449						JUN 06						SUNSET: 1927						SUNRISE: 0448						JUN 12						SUNSET: 1930					
01	CLR	NC			10.00	50	45	48	83	0	00	29.92	30.12	01	CLR	NC			10.00		65	58	61	78	7	19	29.73	29.93							
04	CLR	NC			10.00	48	46	47	93	7	06	29.91	30.11	04	CLR	NC			10.00		65	56	60	73	5	20	29.70	29.90							
07	CLR	NC			10.00	56	52	54	87	8	06	29.94	30.14	07	CLR	NC			10.00		67	60	63	79	6	20	29.70	29.90							
10	CLR	NC			10.00	62	49	55	62	12	07	29.94	30.14	10	FEW	NC			10.00		78	65	70	64	9	22	29.67	29.87							
13	CLR	NC			10.00	65	49	56	56	10	08	29.93	30.13	13	BKN	090			10.00		83	64	71	53	13	26	29.63	29.83							
16	CLR	NC			10.00	63	48	55	58	9	07	29.89	30.09	16	BKN	100			10.00		77	67	70	71	14	22	29.60	29.80							
19	BKN	060			10.00	57	51	54	81	9	04	29.89	30.10	19	BKN	100			7.00	-RA	72	70	71	94	8	21	29.56	29.76							
22	FEW	NC			10.00	55	50	52	83	9	06	29.90	30.10	22	CLR	NC			6.00	BR	69	68	68	96	5	18	29.56	29.76							

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

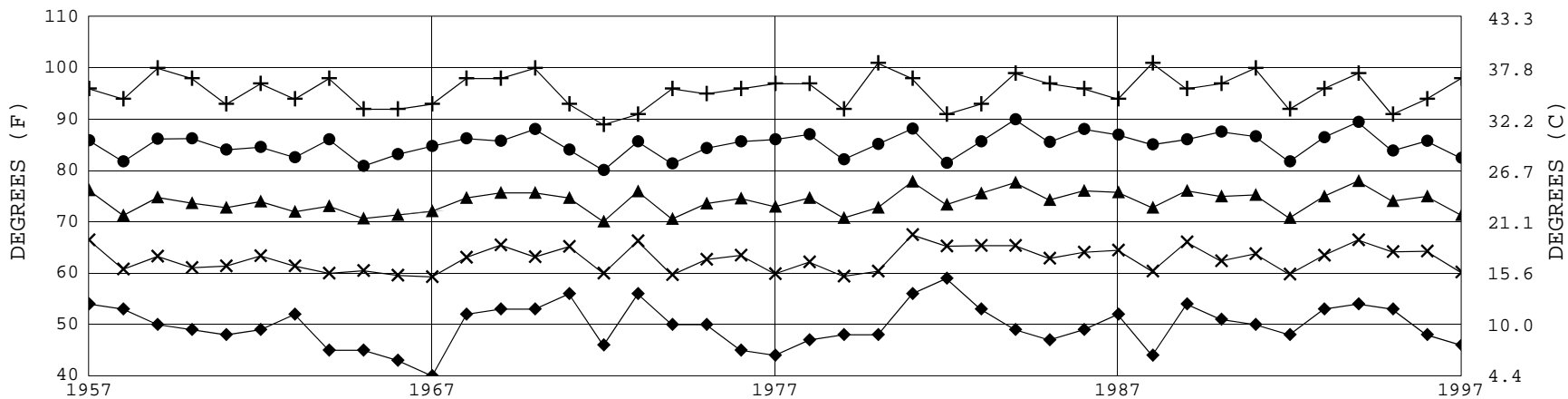
JUNE 1997

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: 0448						JUN 13						SUNSET: 1931																	
01	SCT	NC			10.00	69	68	68	96	8	20	29.54	29.74	01	BKN	150			10.00	76	67	70	74	10	21	29.62	29.81		
04	CLR	NC			10.00	69	67	68	93	12	20	29.52	29.72	04	CLR	NC			10.00	72	68	69	87	6	24	29.63	29.82		
07	CLR	NC			10.00	70	68	69	93	10	20	29.50	29.70	07	BKN	250			10.00	75	68	70	79	6	31	29.71	29.90		
10	BKN	016			10.00	77	69	72	77	13	23	29.51	29.71	10	BKN	250			10.00	81	67	72	62	12	35	29.76	29.95		
13	SCT	NC			10.00	82	70	74	67	17	20	29.46	29.66	13	BKN	250			10.00	83	65	71	55	13	35	29.77	29.97		
16	BKN	034			10.00	77	70	72	79	7	14	29.43	29.63	16	BKN	250			10.00	86	61	70	43	14	31	29.76	29.95		
19	FEW	NC			10.00	79	71	74	77	10	20	29.44	29.64	19	BKN	250			10.00	80	60	68	51	6	01	29.77	29.97		
22	BKN	075			10.00	77	70	72	79	6	25	29.47	29.67	22	FEW	NC			10.00	70	63	66	79	0	00	29.81	30.01		
SUNRISE: 0448						JUN 14						SUNSET: 1931																	
01	CLR	NC			9.00	71	68	69	90	7	24	29.49	29.69	01	FEW	NC			10.00	68	61	64	78	3	20	29.82	30.02		
04	CLR	NC			10.00	69	67	68	93	8	27	29.48	29.68	04	FEW	NC			7.00	66	63	64	90	0	00	29.82	30.02		
07	CLR	NC			10.00	72	67	69	84	7	27	29.54	29.74	07	FEW	NC			6.00	72	67	69	84	3	18	29.85	30.05		
10	BKN	110			10.00	77	67	70	71	9	33	29.57	29.77	10	FEW	NC			10.00	85	63	71	48	8	15	29.85	30.05		
13	OVC	042			4.00	72	68	69	87	9	36	29.59	29.79	13	SCT	NC			10.00	88	64	72	45	8	24	29.82	30.02		
16	CLR	NC			7.00	72	67	69	84	5	03	29.57	29.77	16	SCT	NC			10.00	90	65	73	44	9	20	29.78	29.98		
19	CLR	NC			6.00	71	67	68	87	5	08	29.60	29.80	19	CLR	NC			10.00	84	67	73	57	7	19	29.79	29.99		
22	CLR	NC			4.00	67	67	67	100	3	02	29.65	29.85	22	CLR	NC			9.00	77	68	71	74	10	15	29.83	30.02		
SUNRISE: 0448						JUN 15						SUNSET: 1932																	
01	CLR	NC			3.00	63	63	63	100	3	VR	29.66	29.86	01	CLR	NC			9.00	73	66	69	79	8	17	29.81	30.01		
04	VV	001			< .25	63	63	63	100	7	02	29.67	29.86	04	FEW	NC			8.00	71	67	68	87	5	16	29.82	30.01		
07	FEW	NC			5.00	66	63	64	90	12	05	29.78	29.97	07	FEW	NC			6.00	74	69	71	85	7	18	29.81	30.01		
10	CLR	NC			10.00	73	58	64	59	12	03	29.81	30.01	10	CLR	NC			7.00	85	71	75	63	7	19	29.82	30.01		
13	CLR	NC			10.00	77	57	65	50	6	10	29.80	30.00	13	FEW	NC			6.00	91	69	76	49	12	21	29.78	29.98		
16	SCT	NC			10.00	76	57	64	52	8	07	29.78	29.98	16	SCT	NC			6.00	92	68	75	46	14	22	29.75	29.94		
19	FEW	NC			10.00	72	57	63	60	8	10	29.78	29.98	19	CLR	NC			8.00	86	69	74	57	8	21	29.73	29.93		
22	CLR	NC			10.00	62	56	59	81	6	13	29.79	29.99	22	CLR	NC			7.00	77	70	72	79	7	18	29.74	29.93		
SUNRISE: 0448						JUN 16						SUNSET: 1932																	
01	CLR	NC			10.00	58	55	56	90	0	00	29.79	29.98	01	CLR	NC			10.00	77	67	70	71	10	21	29.78	29.98		
04	CLR	NC			10.00	55	54	54	96	0	00	29.77	29.97	04	CLR	NC			7.00	72	69	70	91	7	20	29.76	29.96		
07	FEW	NC			8.00	61	58	59	90	0	00	29.80	30.00	07	FEW	NC			6.00	76	69	71	79	9	21	29.76	29.96		
10	CLR	NC			10.00	72	55	62	55	3	VR	29.80	30.00	10	FEW	NC			6.00	85	69	74	59	9	22	29.75	29.94		
13	CLR	NC			10.00	78	57	65	48	7	22	29.73	29.93	13	FEW	NC			6.00	91	70	76	50	9	24	29.74	29.93		
16	CLR	NC			10.00	81	57	66	44	10	22	29.68	29.88	16	BKN	060			6.00	93	67	75	42	13	24	29.70	29.89		
19	CLR	NC			10.00	75	60	66	60	7	20	29.67	29.87	19	BKN	180			7.00	87	70	75	57	8	24	29.73	29.92		
22	CLR	NC			10.00	66	56	60	70	8	15	29.69	29.89	22	BKN	110			8.00	80	69	73	69	7	35	29.78	29.98		
SUNRISE: 0448						JUN 17						SUNSET: 1932																	
01	CLR	NC			10.00	63	54	58	73	6	16	29.67	29.87	01	OVC	070			6.00	76	72	73	88	0	00	29.81	30.01		
04	CLR	NC			10.00	62	56	59	81	5	16	29.62	29.82	04	CLR	NC			10.00	74	68	70	82	10	36	29.85	30.04		
07	SCT	NC			8.00	67	60	63	79	9	20	29.64	29.83	07	SCT	NC			10.00	76	63	68	64	9	02	29.92	30.11		
10	BKN	250			8.00	79	68	72	69	12	21	29.62	29.82	10	BKN	250			10.00	84	58	68	41	10	06	29.95	30.15		
13	BKN	035			9.00	85	70	75	61	10	22	29.62	29.82	13	BKN	250			10.00	89	50	66	26	0	00	29.95	30.14		
16	BKN	035			6.00	82	72	75	72	10	33	29.61	29.80	16	FEW	NC			10.00	91	51	67	26	8	05	29.91	30.11		
19	CLR	NC			7.00	81	75	77	82	3	15	29.63	29.83	19	FEW	NC			10.00	84	55	66	37	7	02	29.93	30.13		
22	BKN	120			6.00	75	73	74	94	5	06	29.67	29.87	22	FEW	NC			10.00	74	60	65	62	0	00	29.96	30.16		
SUNRISE: 0448						JUN 18						SUNSET: 1933																	
01	OVC	050			6.00	75	71	72	88	16	22	29.70	29.90	01	FEW	NC			10.00	71	59	64	66	6	22	29.97	30.17		
04	BKN	140			5.00	71	71	71	100	3	19	29.66	29.86	04	CLR	NC			10.00	67	61	63	81	3	23	29.96	30.15		
07	OVC	140			5.00	72	72	72	100	6	19	29.70	29.90	07	FEW	NC			7.00	77	65	69	66	9	26	29.98	30.18		
10	OVC	140			9.00	78	73	75	85	13	21	29.69	29.89	10	CLR	NC			10.00	87	64	72	46	8	24	29.96	30.15		
13	BKN	200			10.00	87	72	77	61	15	19	29.65	29.85	13	BKN	070			10.00	90	62	72	39	12	19	29.93	30.13		
16	BKN	200			10.00	89	70	76	53	17	20	29.57	29.77	16	FEW	NC			10.00	92	61	72	36	10	21	29.88	30.08		
19	BKN	200			10.00	85	71	75	63	15	21	29.58	29.78	19	CLR	NC			10.00	88	63	72	43	12	22	29.88	30.08		
22	BKN	200			10.00	80	70	73	71	10	20	29.62	29.81	22	CLR	NC			10.00	77	64	69	64	5	19	29.89	30.09		

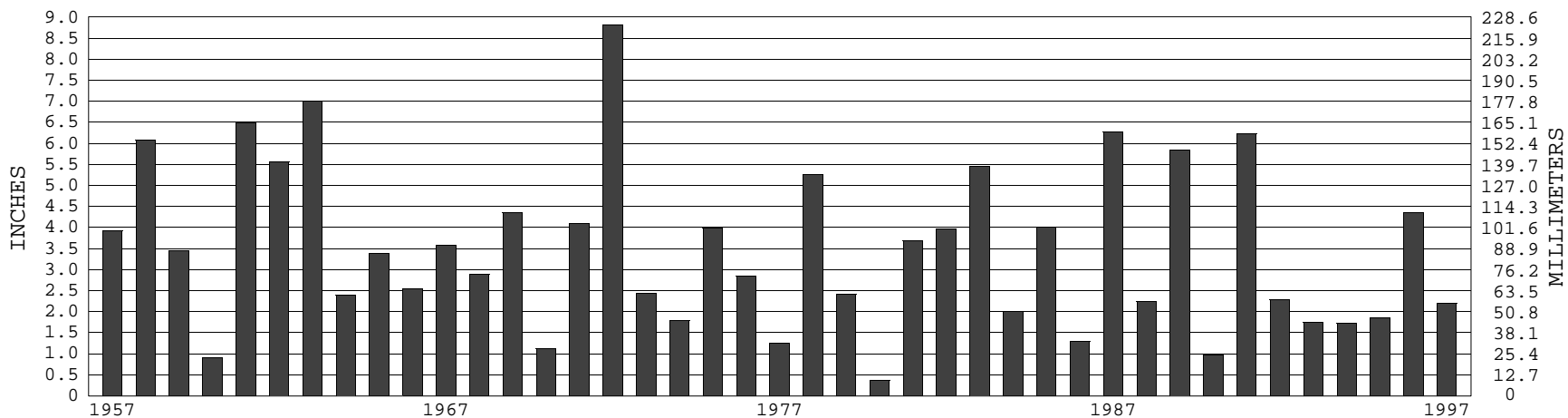
RICHMOND, VA JUNE TEMPERATURES



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

Long-Term (1957-1997) Mean: 74.0 1961-1990 Normal: 73.9

RICHMOND, VA JUNE PRECIPITATION



Long-Term (1957-1997) Mean Monthly Total: 3.49

1961-1990 Normal: 3.62



JUNE 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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