



SEPTEMBER 1996

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

SEPTEMBER 1996
 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	84	61	73	-1	62	66	0	8					0.00	29.81	30.01	9.0	01	6.9	18	01	15	01	01																										
02	85	62	74	0	63	67	0	9	BR				0.00	29.84	30.04	6.1	34	4.0	17	23	14	24	02																										
03	79	71	75	1	69	71	0	10	RA BR				0.02	29.85	30.05	1.5	06	4.5	13	06	10	05	03																										
04	80	71	76	2	71	72	0	11	RA BR				0.04	29.80	30.00	6.4	12	7.2	20	14	17	14	04																										
05	81	72	77	4	72	73	0	12	RA BR				0.05	29.80	30.00	9.8	07	10.6	28	05	22	06	05																										
06	81	73	77	4	69	72	0	12	RA BR				1.92	29.47	29.67	15.9	13	20.7	53*	08	40*	10	06																										
07	88	71	80*	7	67	71	0	15					0.00	29.65	29.85	9.8	21	10.5	24	19	20	22	07																										
08	88*	69	79	6	70	72	0	14	TS TSRA RA FG+ BR HZ SQ				1.23	29.67	29.87	3.1	18	6.8	39	26	26	27	08																										
09	87	68	78	6	71	73	0	13	RA FG+ BR HZ				0.01	29.70	29.90	5.2	20	4.2	20	22	17	23	09																										
10	87	69	78	6	70	72	0	13	TSRA RA BR HZ				0.14	29.76	29.96	3.0	17	4.7	21	21	17	21	10																										
11	80	67	74	2	68	69	0	9	TSRA RA FG BR HZ				1.88	29.73	29.93	1.6	07	5.2	21	36	18	01	11																										
12	76	69	73	2	67	69	0	8	RA BR HZ				0.01	29.64	29.84	3.3	36	4.0	11	33	9	03	12																										
13	80	59	70	-1	61	64	0	5	BR HZ				0.00	29.52	29.71	6.3	27	6.9	21	24	17	25	13																										
14	74	53	64	-7	52	57	1	0					0.00	29.65	29.85	6.4	27	5.1	18	25	15	27	14																										
15	77	51	64	-6	52	58	1	0	BR				0.00	29.75	29.96	6.0	25	6.1	23	26	16	25	15																										
16	71	58	65	-5	62	63	0	0	RA BR				0.53	29.73	29.93	1.1	16	4.7	21	20	18	20	16																										
17	83	62	73	3	66	68	0	8	RA BR				0.60	29.51	29.71	7.5	25	10.2	28	01	24	01	17																										
18	75	60	68	-1	54	59	0	3					0.00	29.70	29.90	10.7	33	10.6	28	30	22	34	18																										
19	77	56	67	-2	52	58	0	2					0.00	29.75	29.96	8.8	33	7.9	20	36	16	36	19																										
20	78	53	66	-3	53	58	0	1					0.00	29.83	30.04	6.3	33	4.0	13	27	10	26	20																										
21	77	54	66	-3	57	61	0	1	RA				T	29.79	29.99	2.9	18	5.3	20	18	15	18	21																										
22	79	62	71	3	58	63	0	6	RA BR				0.10	29.58	29.77	6.6	27	9.0	21	33	16	25	22																										
23	77	54	66	-2	51	58	0	1					0.00	29.71	29.91	7.9	32	9.6	32	32	24	31	23																										
24	76	52	64	-3	56	60	1	0	BR HZ				0.00	29.78	29.99	7.6	23	5.6	21	19	17	20	24																										
25	76	56	66	-1	54	59	0	1					0.00	29.90	30.11	2.7	30	4.3	16	01	14	36	25																										
26	73	53	63	-3	56	59	2	0	BR				0.00	30.10	30.31	2.2	15	5.0	16	15	13	15	26																										
27	80	58	69	3	61	64	0	4					0.00	30.09	30.29	10.0	16	10.1	24	15	18	15	27																										
28	83	61	72	7	66	68	0	7	RA BR				0.33	29.85	30.05	8.0	17	10.1	28	19	22	19	28																										
29	68	55	62*	-3	54	57	3	0	RA				0.01	29.96	30.17	7.1	02	6.2	20	02	16	02	29																										
30	75	51*	63	-2	53	57	2	0	BR				0.00	30.16	30.36	7.7	02	3.3	18	10	11	09	30																										
79.2										61.0		70.1		■ ■		61.2		64.6		0.3		5.8		< MONTHLY AVERAGES TOTALS-->				6.87		29.77		29.97		0.8		27		7.1		<-- MONTHLY AVERAGES									
-1.7										2.0		0.1		■ ■		<----- DEPARTURE FROM NORMAL ----->																				3.53		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.99 DATE: 10-11										GREATEST 24-HR SNOWFALL: DATE:										GREATEST SNOW DEPTH: DATE:										SEA LEVEL PRESSURE DATE TIME									
MONTHLY					SEASON TO DATE					MAXIMUM					MINIMUM					30.42					30					2326																			
TOTAL DEPARTURE					TOTAL DEPARTURE					10					-13					10					-13					06					0807														
HEATING: 10					-13					10					-13					NUMBER OF DAYS WITH					MAXIMUM TEMP ≥ 90: 0					MINIMUM TEMP ≤ 32: 0					PRECIPITATION ≥ 0.01 INCH: 14														
COOLING: 173					0					1304					-10					MAXIMUM TEMP ≤ 32: 0					MINIMUM TEMP ≤ 0: 0					PRECIPITATION ≥ 0.10 INCH: 8																			
																														SNOWFALL ≥ 1.0 INCH: 0																			

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA

SEPTEMBER 1996 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			0.00	
02													02												02			0.00	
03												0.01	03	0.01	T									T	03			0.02	
04	0.01	0.01							0.01			0.03	04											T	04	0.06		0.04	
05													05						T	0.01	0.02	0.01		T	05			0.05	
06						0.02		0.04	0.06	0.08	0.02	T	06	T											06	0.22		1.92	
07													07												07			0.00	
08													08			T	0.06	0.79		0.01	0.16	T			08	1.02		1.23	
09													09			0.01									09			0.01	
10													10			T			0.02	0.10	0.01	T	0.01	T	10			0.14	
11													11												11			1.88	
12													12				1.26	0.50	0.11	T					12			0.01	
13			0.01	T									13									T			13			0.00	
14													14												14			0.00	
15													15												15			0.00	
16													16	0.01	T	T	0.02	0.09	0.15	0.09	0.15	0.01	0.01		16			0.53	
17	0.14	T		0.22	0.11	0.05		T	T	T	T	T	17			T	0.08								17			0.60	
18													18												18			0.00	
19													19												19			0.00	
20													20												20			0.00	
21													21												21		T	T	
22	0.02	0.02	0.01		0.03	0.02							22												22			0.10	
23													23												23			0.00	
24													24												24			0.00	
25													25												25			0.00	
26													26												26			0.00	
27													27												27			0.00	
28											0.01	0.01	28			T								0.21	0.06	28	0.32		0.33
29	0.01		T			0.01	T	T					29					T	0.03	T					29	0.02		0.01	
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)												
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	
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 SEPTEMBER 1996

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							4.00	10.00	
03							6.00	10.00	
04							4.00	10.00	
05							.50	10.00	
06							.25	10.00	
07							9.00	10.00	
08							3.00	10.00	
09							.25	7.00	
10							1.25	6.00	
11							.50	10.00	
12							3.00	8.00	
13							1.25	10.00	
14							10.00	10.00	
15							5.00	10.00	
16							1.50	10.00	
17							1.75	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							8.00	10.00	
22							5.00	10.00	
23							8.00	10.00	
24							5.00	10.00	
25							7.00	10.00	
26							6.00	10.00	
27							10.00	10.00	
28							5.00	10.00	
29							9.00	10.00	
30							6.00	10.00	
MONTHLY AVGS							5.31	9.70	
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 2 10 11									

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA SEPTEMBER 1996

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: 0540						SEP 01	SUNSET: 1838						SUNRISE: 0545						SEP 07	SUNSET: 1829									
01	CLR	NC			10.00		64	61	62	90	9	36	29.82	30.02	01	CLR	NC			10.00	74	65	68	74	15	18	29.58	29.78	
04	CLR	NC			10.00		62	59	60	90	7	36	29.80	30.00	04	CLR	NC			10.00	73	67	69	81	15	20	29.61	29.81	
07	CLR	NC			10.00		65	60	62	84	8	36	29.82	30.02	07	CLR	NC			10.00	73	65	68	76	10	20	29.66	29.86	
10	CLR	NC			10.00		77	63	68	62	13	35	29.83	30.03	10	CLR	NC			10.00	81	66	71	61	13	22	29.66	29.85	
13	FEW	NC			10.00		81	63	69	54	12	02	29.81	30.01	13	CLR	NC			10.00	86	67	73	53	13	23	29.66	29.85	
16	CLR	NC			10.00		83	61	69	48	8	01	29.78	29.98	16	CLR	NC			10.00	87	65	72	48	13	22	29.64	29.83	
19	CLR	NC			10.00		76	61	67	60	0	00	29.80	29.99	19	CLR	NC			10.00	77	69	72	77	6	20	29.66	29.86	
22	CLR	NC			10.00		70	63	66	79	0	00	29.81	30.01	22	CLR	NC			10.00	73	69	70	87	3	15	29.69	29.89	
SUNRISE: 0541						SEP 02	SUNSET: 1836						SUNRISE: 0546						SEP 08	SUNSET: 1827									
01	CLR	NC			8.00		65	61	63	87	0	00	29.81	30.01	01	CLR	NC			7.00	72	70	71	94	3	18	29.68	29.87	
04	CLR	NC			6.00	BR	65	62	63	90	0	00	29.82	30.02	04	CLR	NC			6.00	BR	73	70	71	90	7	26	29.65	29.85
07	CLR	NC			4.00	BR	67	63	64	87	0	00	29.85	30.05	07	CLR	NC			3.00	BR	73	71	72	94	6	20	29.69	29.89
10	CLR	NC			10.00		81	61	68	51	9	27	29.86	30.06	10	CLR	NC			8.00		82	72	75	72	6	20	29.70	29.90
13	FEW	NC			10.00		84	61	69	46	9	22	29.84	30.04	13	CLR	NC			10.00		87	72	77	61	5	18	29.66	29.85
16	CLR	NC			10.00		85	61	70	45	13	23	29.82	30.02	16	BKN	046			5.00	-TSRA	76	71	73	85	6	24	29.63	29.83
19	CLR	NC			10.00		76	67	70	74	3	21	29.83	30.03	19	OVC	038			9.00	-TSRA	71	67	68	87	12	06	29.66	29.86
22	FEW	NC			7.00		72	67	69	84	6	19	29.86	30.06	22	SCT	NC			6.00	BR	70	68	69	93	12	01	29.72	29.92
SUNRISE: 0542						SEP 03	SUNSET: 1835						SUNRISE: 0546						SEP 09	SUNSET: 1826									
01	OVC	049			8.00		73	69	70	87	3	18	29.85	30.04	01	CLR	NC			6.00	BR	69	67	68	93	3	15	29.68	29.88
04	BKN	080			9.00		72	68	69	87	0	00	29.83	30.03	04	CLR	NC			2.00	BR	69	68	68	96	5	16	29.66	29.86
07	OVC	075			6.00	BR	72	69	70	91	3	17	29.87	30.07	07	CLR	NC			1.00	BR	70	69	69	97	0	00	29.70	29.90
10	SCT	NC			10.00		77	68	71	74	5	15	29.89	30.09	10	CLR	NC			2.00	HZ	79	72	74	79	0	00	29.73	29.93
13	SCT	NC			10.00	-RA	77	68	71	74	0	00	29.88	30.08	13	BKN	060			6.00	HZ	85	72	76	65	3	VR	29.71	29.91
16	SCT	NC			10.00		76	70	72	82	8	04	29.83	30.03	16	CLR	NC			7.00		83	72	75	70	6	20	29.67	29.87
19	BKN	120			10.00		73	69	70	87	7	05	29.83	30.02	19	CLR	NC			6.00	BR	78	74	75	87	3	17	29.70	29.90
22	OVC	065			9.00		72	70	71	94	5	07	29.84	30.03	22	CLR	NC			4.00	BR	75	73	74	94	3	21	29.74	29.94
SUNRISE: 0542						SEP 04	SUNSET: 1833						SUNRISE: 0547						SEP 10	SUNSET: 1824									
01	OVC	065			4.00	RA BR	72	70	71	94	0	00	29.82	30.02	01	CLR	NC			3.00	BR	73	71	72	94	5	22	29.75	29.94
04	BKN	110			5.00	BR	72	70	71	94	9	11	29.79	29.99	04	CLR	NC			2.50	BR	71	70	70	96	0	00	29.74	29.94
07	BKN	110			5.00	BR	73	71	72	94	7	10	29.80	30.00	07	CLR	NC			1.50	BR	73	70	71	90	3	28	29.76	29.96
10	BKN	014			8.00		75	73	74	94	7	15	29.83	30.03	10	CLR	NC			3.00	HZ	81	71	74	72	5	09	29.78	29.98
13	SCT	NC			10.00		80	72	75	76	14	14	29.79	29.98	13	FEW	NC			6.00	HZ	86	73	77	65	6	12	29.76	29.96
16	BKN	055			10.00		78	70	73	76	9	16	29.79	29.99	16	CLR	NC			5.00	HZ	82	71	75	69	7	13	29.71	29.91
19	CLR	NC			10.00		74	71	72	91	6	03	29.78	29.98	19	OVC	047			2.00	-TSRA HZ	73	70	71	90	13	21	29.78	29.97
22	CLR	NC			7.00		72	71	71	97	6	07	29.81	30.01	22	CLR	NC			6.00	BR	72	70	71	94	8	23	29.77	29.97
SUNRISE: 0543						SEP 05	SUNSET: 1832						SUNRISE: 0548						SEP 11	SUNSET: 1823									
01	BKN	004			10.00		73	71	72	94	5	11	29.83	30.03	01	CLR	NC			3.00	BR	71	70	70	96	5	17	29.76	29.96
04	OVC	002			2.00	BR	73	72	72	96	7	11	29.82	30.02	04	OVC	015			3.00	BR	71	70	70	96	3	23	29.75	29.95
07	OVC	002			0.50	BR	73	73	73	100	6	07	29.84	30.04	07	CLR	NC			1.00	BR	71	70	70	96	3	18	29.77	29.96
10	BKN	016			10.00		79	73	75	82	10	07	29.87	30.07	10	BKN	007			2.50	BR	74	70	71	88	5	09	29.76	29.96
13	SCT	NC			10.00		81	71	74	72	13	08	29.84	30.04	13	SCT	NC			7.00		76	68	71	77	7	01	29.73	29.93
16	SCT	NC			10.00		78	71	73	79	12	07	29.79	29.99	16	BKN	060			5.00	HZ	75	70	72	84	7	12	29.69	29.89
19	OVC	018			10.00		75	71	72	88	13	05	29.77	29.96	19	BKN	095			7.00	-RA	68	66	67	93	7	03	29.70	29.90
22	OVC	007			6.00	-RA BR	74	72	73	94	17	04	29.71	29.91	22	FEW	NC			6.00	HZ	68	63	65	84	6	36	29.70	29.90
SUNRISE: 0544						SEP 06	SUNSET: 1830						SUNRISE: 0549						SEP 12	SUNSET: 1821									
01	OVC	014			6.00	-RA BR	75	73	74	94	21	06	29.57	29.77	01	OVC	003			4.00	BR	69	67	68	93	8	34	29.68	29.88
04	OVC	014			2.00	RA BR	76	73	74	91	29	08	29.40	29.60	04	OVC	003			3.00	HZ	69	64	66	84	6	34	29.66	29.85
07	OVC	033			1.50	-RA BR	75	72	73	90	31	10	29.36	29.56	07	OVC	009			3.00	BR	70	67	68	90	7	33	29.68	29.88
10	OVC	024			1.75	-RA BR	73	71	72	94	24	14	29.40	29.60	10	OVC	016			6.00	BR	72	68	69	87	5	03	29.70	29.90
13	OVC	035			10.00		75	68	70	79	20	16	29.45	29.65	13	SCT	NC			8.00		75	68	70	79	5	35	29.67	29.87
16	BKN	060			10.00		80	69	73	69	17	17	29.49	29.68	16	FEW	NC			6.00	HZ	75	67	70	76	6	01	29.61	29.80
19	OVC	075			10.00		79	66	70	65	15	19	29.53	29.72	19	BKN	019			5.00	BR	72	69	70	91	3	19	29.60	29.80
22	CLR	NC			10.00		76	65	69	69	14	18	29.57	29.77	22	BKN	065			6.00	BR	69	67	68	93	3	13	29.59	29.79

OBSERVATIONS AT 3-HOURLY INTERVALS

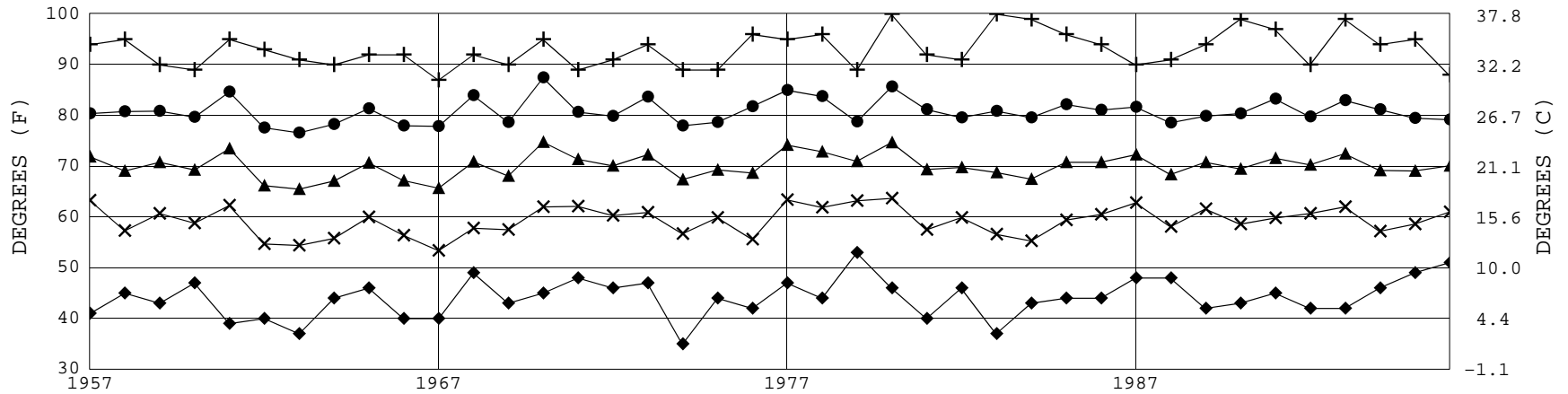
RICHMOND, VA
SEPTEMBER 1996

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: 0550						SEP 13	SUNSET: 1820						SUNRISE: 0555						SEP 19	SUNSET: 1810									
01	OVC	045			5.00 BR	69	68	68	96	0	00	29.55	29.75	01	CLR	NC			10.00	61	50	55	67	10	32	29.74	29.94		
04	BKN	041			1.25 BR	68	64	66	87	6	25	29.52	29.71	04	CLR	NC			10.00	58	51	54	78	10	33	29.73	29.93		
07	CLR	NC			6.00 BR	68	64	66	87	0	00	29.49	29.69	07	CLR	NC			10.00	59	52	55	78	12	33	29.76	29.96		
10	CLR	NC			10.00	74	62	66	67	9	25	29.51	29.71	10	CLR	NC			10.00	71	56	62	59	9	35	29.77	29.97		
13	SCT	NC			10.00	77	59	66	54	12	26	29.49	29.69	13	CLR	NC			10.00	75	52	62	45	9	32	29.75	29.95		
16	FEW	NC			10.00	77	56	64	48	12	25	29.47	29.67	16	CLR	NC			10.00	76	51	62	42	12	34	29.72	29.92		
19	CLR	NC			10.00	67	58	62	73	7	02	29.52	29.72	19	CLR	NC			10.00	64	55	59	73	3	16	29.75	29.96		
22	CLR	NC			10.00	63	58	60	84	7	31	29.55	29.75	22	CLR	NC			10.00	59	53	56	81	0	00	29.79	29.98		
SUNRISE: 0551						SEP 14	SUNSET: 1818						SUNRISE: 0556						SEP 20	SUNSET: 1809									
01	CLR	NC			10.00	59	54	56	83	3	34	29.57	29.77	01	CLR	NC			10.00	57	52	54	83	3	33	29.80	30.00		
04	CLR	NC			10.00	56	51	53	84	3	36	29.59	29.79	04	CLR	NC			10.00	56	51	53	84	3	32	29.82	30.02		
07	CLR	NC			10.00	57	52	54	83	3	29	29.64	29.85	07	CLR	NC			10.00	57	52	54	83	5	35	29.86	30.06		
10	CLR	NC			10.00	67	51	58	57	0	00	29.67	29.87	10	CLR	NC			10.00	70	52	60	53	0	00	29.88	30.09		
13	SCT	NC			10.00	71	49	59	46	10	24	29.65	29.85	13	CLR	NC			10.00	76	53	63	45	3	32	29.84	30.04		
16	BKN	060			10.00	73	50	60	44	9	25	29.64	29.83	16	CLR	NC			10.00	77	52	62	42	5	VR	29.80	30.00		
19	CLR	NC			10.00	63	55	58	76	5	19	29.67	29.87	19	CLR	NC			10.00	64	57	60	78	3	23	29.82	30.02		
22	CLR	NC			10.00	58	54	56	87	5	19	29.71	29.91	22	CLR	NC			10.00	60	56	58	86	0	00	29.84	30.04		
SUNRISE: 0551						SEP 15	SUNSET: 1816						SUNRISE: 0557						SEP 21	SUNSET: 1807									
01	SCT	NC			10.00	57	53	55	87	0	00	29.72	29.92	01	CLR	NC			10.00	59	54	56	83	0	00	29.85	30.05		
04	CLR	NC			8.00	54	52	53	93	3	18	29.71	29.92	04	CLR	NC			9.00	55	54	54	96	3	13	29.84	30.04		
07	CLR	NC			5.00 BR	54	52	53	93	3	19	29.75	29.95	07	CLR	NC			8.00	57	55	56	93	0	00	29.86	30.07		
10	CLR	NC			10.00	71	50	59	47	7	23	29.77	29.97	10	CLR	NC			10.00	71	58	63	63	7	19	29.84	30.04		
13	CLR	NC			10.00	76	49	61	39	13	25	29.76	29.96	13	CLR	NC			10.00	75	56	64	52	10	19	29.78	29.98		
16	CLR	NC			10.00	77	51	62	40	14	25	29.73	29.93	16	CLR	NC			9.00	74	57	64	56	9	17	29.74	29.94		
19	CLR	NC			10.00	66	57	61	73	5	15	29.77	29.97	19	CLR	NC			10.00	67	59	62	76	7	14	29.73	29.93		
22	CLR	NC			10.00	61	56	58	84	5	13	29.80	30.00	22	OVC	050			10.00	67	58	62	73	8	15	29.70	29.90		
SUNRISE: 0552						SEP 16	SUNSET: 1815						SUNRISE: 0557						SEP 22	SUNSET: 1806									
01	CLR	NC			10.00	60	56	58	86	0	00	29.78	29.98	01	OVC	060			10.00	-RA	65	61	63	87	6	14	29.65	29.85	
04	CLR	NC			10.00	61	57	59	87	3	16	29.78	29.98	04	OVC	110			7.00	64	62	63	93	6	16	29.59	29.79		
07	OVC	110			8.00 -RA	61	58	59	90	0	00	29.83	30.03	07	BKN	100			5.00 BR	65	63	64	93	7	22	29.59	29.79		
10	OVC	110			10.00 -RA	67	59	62	76	0	00	29.81	30.01	10	CLR	NC			10.00	73	62	66	69	10	29	29.57	29.77		
13	OVC	110			7.00 -RA	67	62	64	84	6	06	29.77	29.97	13	SCT	NC			10.00	78	58	66	50	14	31	29.54	29.73		
16	OVC	110			3.00 BR	67	65	66	93	6	04	29.71	29.91	16	CLR	NC			10.00	77	56	64	48	12	28	29.52	29.72		
19	OVC	040			1.50 -RA BR	66	65	65	96	5	11	29.66	29.86	19	CLR	NC			10.00	71	54	61	55	10	27	29.55	29.75		
22	OVC	004			1.50 BR	69	68	69	97	8	18	29.61	29.80	22	SCT	NC			10.00	66	51	58	59	8	26	29.60	29.80		
SUNRISE: 0553						SEP 17	SUNSET: 1813						SUNRISE: 0558						SEP 23	SUNSET: 1804									
01	OVC	004			1.75 +RA BR	71	70	70	96	10	19	29.52	29.72	01	CLR	NC			10.00	62	49	55	62	8	26	29.60	29.80		
04	OVC	003			2.50 -RA BR	71	70	70	96	8	21	29.49	29.68	04	CLR	NC			10.00	61	49	54	65	12	25	29.58	29.78		
07	OVC	020			10.00	72	70	71	94	7	22	29.48	29.68	07	CLR	NC			10.00	60	50	55	70	8	25	29.63	29.83		
10	SCT	NC			10.00	79	70	73	74	14	26	29.46	29.66	10	CLR	NC			10.00	72	53	61	52	16	32	29.68	29.88		
13	BKN	090			10.00	80	65	70	60	14	29	29.45	29.65	13	FEW	NC			10.00	76	53	62	45	17	32	29.69	29.89		
16	BKN	036			10.00	71	67	68	86	12	02	29.48	29.68	16	CLR	NC			10.00	75	47	59	37	18	35	29.74	29.94		
19	CLR	NC			10.00	69	65	66	87	7	30	29.55	29.75	19	CLR	NC			10.00	64	53	58	68	5	03	29.81	30.01		
22	CLR	NC			10.00	63	56	59	78	6	21	29.60	29.80	22	CLR	NC			10.00	59	53	56	81	0	00	29.83	30.03		
SUNRISE: 0554						SEP 18	SUNSET: 1812						SUNRISE: 0559						SEP 24	SUNSET: 1803									
01	CLR	NC			10.00	63	55	58	76	9	26	29.62	29.82	01	CLR	NC			9.00	55	52	53	90	0	00	29.85	30.05		
04	CLR	NC			10.00	62	54	58	75	15	33	29.64	29.84	04	CLR	NC			7.00	54	51	52	90	0	00	29.84	30.03		
07	CLR	NC			10.00	62	54	58	75	9	34	29.69	29.88	07	BKN	120			5.00 BR	57	54	55	90	0	00	29.85	30.05		
10	CLR	NC			10.00	69	54	60	59	14	33	29.72	29.92	10	BKN	110			10.00	67	57	61	71	9	19	29.83	30.03		
13	BKN	060			10.00	72	54	61	53	16	34	29.71	29.91	13	OVC	090			10.00	73	56	63	55	14	20	29.77	29.97		
16	SCT	NC			10.00	73	52	61	48	13	34	29.70	29.90	16	SCT	NC			10.00	73	59	64	62	12	21	29.72	29.93		
19	CLR	NC			10.00	65	54	59	68	0	00	29.74	29.94	19	BKN	090			10.00	67	61	63	81	7	20	29.72	29.92		
22	CLR	NC			10.00	61	54	57	78	5	29	29.75	29.95	22	SCT	NC			10.00	68	61	64	78	6	26	29.74	29.94		

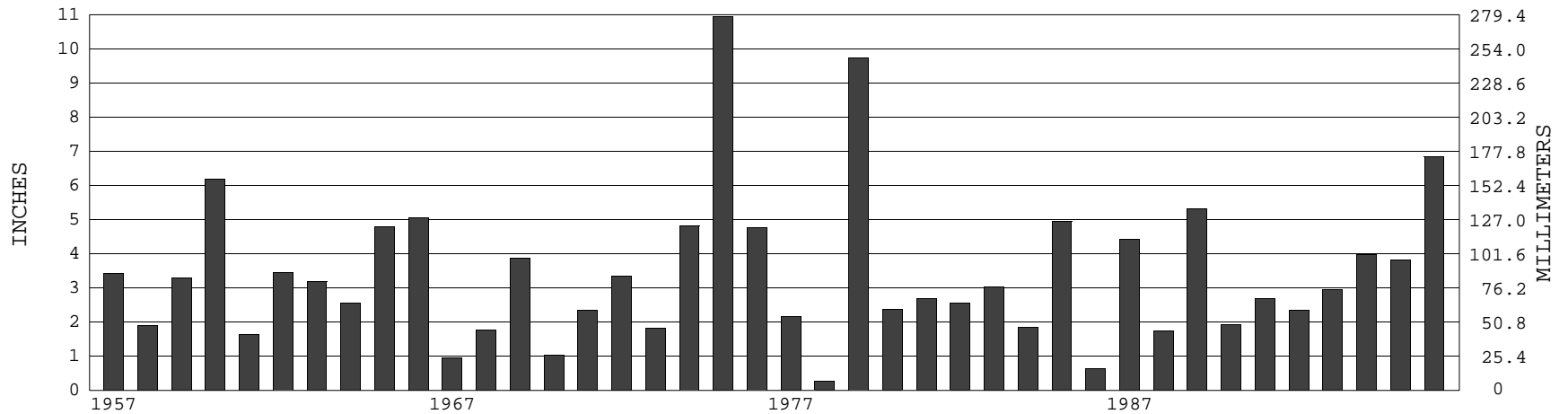
RICHMOND, VA SEPTEMBER TEMPERATURES



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

Long-Term (1957-1996) Mean: 70.1 1961-1990 Normal: 70.0

RICHMOND, VA SEPTEMBER PRECIPITATION



Long-Term (1957-1996) Mean Monthly Total: 3.44

1961-1990 Normal: 3.34



**SEPTEMBER 1996
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.

We welcome your questions or comments, please contact us at
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