



# JULY 2000

## 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): 165 Feet  
 Time Zone: EASTERN WBAN: 13740 ISSN #:0198-537X

JULY 2000  
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	82	65	74	-3	60	65	0	9					0.00	29.88	30.06	0.2	14	2.2	11	07	9	07	01																															
02	86	62	74	-3	61	66	0	9	BR				0.00	29.90	30.09	4.5	20	5.1	16	20	13	20	02																															
03	89	65	77	0	65	69	0	12	HZ				0.00	29.87	30.05	10.1	20	10.3	20	21	16	22	03																															
04	88	71	80	3	70	73	0	15	BR HZ				0.00	29.77	29.95	8.5	24	9.1	18	22	16	23	04																															
05	87	70	79	2	71	73	0	14	RA BR HZ				T	29.70	29.88	3.2	05	3.9	15	05	11	05	05																															
06	86	68	77	0	65	69	0	12	BR HZ				0.00	29.69	29.88	4.9	04	5.2	16	06	11	06	06																															
07	82	60	71	-7	60	65	0	6	RA BR				T	29.83	30.02	6.4	02	7.2	22	01	17	04	07																															
08	80	58*	69	-9	56	62	0	4					0.00	29.99	30.18	1.6	07	5.3	14	25	11	07	08																															
09	89	65	77	-1	67	70	0	12	HZ				0.00	29.84	30.02	8.1	20	8.6	20	20	17	21	09																															
10	94*	74	84*	6	72	75	0	19	HZ				0.00	29.68	29.86	8.5	23	9.8	22	23	18	36	10																															
11	86	67	77	-1	70	72	0	12	RA				0.01	29.70	29.89	5.0	02	6.9	22	01	17	01	11																															
12	85	65	75	-3	65	68	0	10					0.00	29.82	30.01	5.6	07	6.5	17	07	12	09	12																															
13	77	65	71	-7	62	66	0	6	RA				T	29.83	30.02	2.4	13	3.3	10	16	9	14	13																															
14	88	66	77	-1	68	71	0	12	HZ				0.00	29.66	29.85	8.2	20	8.9	20	18	16	22	14																															
15	84	65	75	-3	67	69	0	10	TS TSRA RA BR				1.15	29.52	29.71	2.2	10	5.4	22	12	18	12	15																															
16	87	66	77	-1	68	70	0	12	TS TSRA RA BR				0.18	29.61	29.80	1.4	15	5.0	21	05	18	02	16																															
17	85	64	75	-3	67	70	0	10	BR				0.00	29.76	29.95	2.9	02	4.1	14	35	10	36	17																															
18	90	66	78	0	68	72	0	13	BR HZ				0.00	29.78	29.97	6.4	22	7.1	21	24	16	24	18																															
19	83	67	75	-3	71	72	0	10	TSRA RA FG BR HZ				1.49	29.71	29.90	4.8	04	7.2	25	02	21	02	19																															
20	79	63	71	-7	63	66	0	6	RA DZ BR				0.04	29.71	29.90	7.2	35	8.3	29*	01	24*	01	20																															
21	83	63	73	-5	66	68	0	8	BR HZ				0.00	29.74	29.93	3.8	20	4.4	15	20	13	21	21																															
22	78	65	72	-7	67	69	0	7	RA BR				0.01	29.82	30.01	0.6	16	3.1	9	18	8	19	22																															
23	82	64	73	-6	67	69	0	8	RA BR				T	29.91	30.10	5.4	06	6.0	17	10	14	08	23																															
24	70	63	67*	-12	64	65	0	2	RA BR				0.65	29.90	30.09	8.0	04	8.6	20	05	17	09	24																															
25	72	64	68	-11	65	66	0	3	RA DZ BR				0.16	29.97	30.16	7.0	04	7.4	15	04	12	05	25																															
26	73	66	70	-9	67	68	0	5	RA DZ BR				0.21	29.93	30.12	7.5	36	8.1	18	01	14	36	26																															
27	85	65	75	-4	68	70	0	10	BR				0.00	29.91	30.10	1.5	04	3.8	13	31	10	30	27																															
28	87	67	77	-1	70	71	0	12	TS TSRA RA FG+ BR HZ				0.12	29.85	30.04	1.8	16	4.6	25	29	22	34	28																															
29	85	66	76	-2	69	71	0	11	RA BR				T	29.86	30.04	1.7	14	3.8	12	13	10	13	29																															
30	86	71	79	1	72	73	0	14	TS TSRA RA BR				0.02	29.88	30.06	3.7	18	5.3	18	17	15	15	30																															
31	84	70	77	-1	73	74	0	12	RA BR				0.01	29.90	30.09	5.2	19	5.7	17	19	15	20	31																															
83.6											65.7	74.7	■ ■	66.6	69.3	0.0	9.8	< MONTHLY AVERAGES		TOTALS-->		4.05	29.80	29.99	0.1	15	6.1	<- MONTHLY AVERAGES																										
-4.8											-1.8	-3.3	■ ■	<----- DEPARTURE FROM NORMAL ----->											- .98	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																												
DEGREE DAYS											GREATEST 24-HR PRECIPITATION: 1.53 DATE: 19-20											SEA LEVEL PRESSURE DATE TIME																																
MONTHLY TOTAL DEPARTURE											GREATEST 24-HR SNOWFALL: DATE: DATE:											MAXIMUM : 30.25 08 0854																																
SEASON TO DATE TOTAL DEPARTURE											GREATEST SNOW DEPTH: DATE: DATE:											MINIMUM : 29.67 15 1554																																
HEATING: 0 0 0 0											NUMBER OF DAYS WITH =>											MAXIMUM TEMP ≥ 90: 2											MINIMUM TEMP ≤ 32: 0											PRECIPITATION ≥ 0.01 INCH: 12										
COOLING: 305 -98 779 4																						MAXIMUM TEMP ≤ 32: 0											MINIMUM TEMP ≤ 0: 0											PRECIPITATION ≥ 0.10 INCH: 7										
																						THUNDERSTORMS: 5											HEAVY FOG: 1											SNOWFALL ≥ 1.0 INCH: :										

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## RICHMOND, VA

JULY 2000

RIC

WBAN # 13740

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.
01													01												01		0.00		
02													02												02		0.00		
03													03												03		0.00		
04													04												04		0.00		
05													05					T							05		T		
06													06												06		0.00		
07													07												07		T		
08													08												08		0.00		
09													09												09		0.00		
10													10												10		0.00		
11													11												11		0.01		
12													12												12		0.00		
13													13												13		T		
14													14												14		0.00		
15													15												15		1.15		
16													16												16		0.18		
17													17												17		0.00		
18													18												18		0.00		
19													19												19		1.49		
20													20												20		0.04		
21													21												21		0.00		
22													22												22		0.01		
23													23												23		T		
24													24												24		0.65		
25													25												25		0.16		
26													26												26		0.21		
27													27												27		0.00		
28													28												28		0.12		
29													29												29		T		
30													30												30		0.02		
31													31												31		0.01		

### MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.32	.44	.53	.58	.81	.98	1.28	1.37	1.38	1.38	1.46	1.46
Ending Date	15	15	15	15	19	19	19	19	19	19	19	19
Ending Time (Hour/Min)	0309	0311	0317	0318	1707	1717	1711	1728	1735	1735	1835	1835

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.



# OBSERVATIONS AT 3-HOURLY INTERVALS

# RICHMOND, VA

JULY 2000

RIC

WBAN # 13740

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	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
<b>SUNRISE: 0452</b>				<b>JUL 01</b>				<b>SUNSET: 1934</b>				<b>SUNRISE: 0455</b>				<b>JUL 07</b>				<b>SUNSET: 1933</b>					
01	BKN	250		10.00	66	60	62	81	0	00	29.84	30.03	01	FEW	NC		10.00	70	64	66	82	0	00	29.71	29.90
04	BKN	080		10.00	66	62	64	87	0	00	29.85	30.03	04	OVC	060		10.00	70	60	64	71	6	03	29.73	29.92
07	OVC	100		10.00	69	63	65	81	3	35	29.89	30.08	07	OVC	004	BR	6.00	70	67	68	90	9	02	29.79	29.98
10	BKN	250		10.00	76	60	66	58	0	00	29.90	30.09	10	SCT	NC		10.00	76	61	67	60	9	02	29.84	30.03
13	BKN	150		10.00	80	58	66	47	6	VR	29.89	30.08	13	SCT	NC		10.00	79	59	67	50	9	36	29.84	30.03
16	BKN	060		10.00	78	59	66	52	6	19	29.86	30.04	16	SCT	NC		10.00	81	59	67	47	15	02	29.85	30.04
19	SCT	NC		10.00	77	61	67	58	0	00	29.86	30.05	19	FEW	NC		10.00	75	53	62	46	10	36	29.88	30.07
22	SCT	NC		9.00	67	63	64	87	3	16	29.89	30.08	22	CLR	NC		10.00	67	56	61	68	0	00	29.93	30.12
<b>SUNRISE: 0453</b>				<b>JUL 02</b>				<b>SUNSET: 1934</b>				<b>SUNRISE: 0456</b>				<b>JUL 08</b>				<b>SUNSET: 1933</b>					
01	CLR	NC		7.00	66	62	64	87	3	19	29.90	30.09	01	CLR	NC		10.00	59	55	57	87	0	00	29.94	30.13
04	BKN	080		7.00	64	61	62	90	0	00	29.91	30.10	04	CLR	NC		10.00	58	55	56	90	8	04	29.97	30.16
07	CLR	NC		9.00	70	63	66	79	5	25	29.93	30.12	07	CLR	NC		10.00	63	54	58	73	7	04	30.05	30.24
10	CLR	NC		10.00	79	62	68	56	5	21	29.92	30.11	10	BKN	250		10.00	71	52	60	51	6	33	30.06	30.25
13	SCT	NC		10.00	84	60	69	44	12	17	29.91	30.09	13	SCT	NC		10.00	77	53	63	44	6	VR	30.01	30.20
16	SCT	NC		7.00	85	56	67	37	5	22	29.87	30.06	16	BKN	250		10.00	79	55	65	44	0	00	29.97	30.16
19	FEW	NC		10.00	80	61	68	52	9	21	29.87	30.06	19	BKN	250		10.00	75	60	66	60	6	19	29.95	30.14
22	CLR	NC		10.00	71	62	66	73	7	17	29.90	30.09	22	CLR	NC		10.00	66	61	63	84	7	12	29.97	30.16
<b>SUNRISE: 0453</b>				<b>JUL 03</b>				<b>SUNSET: 1934</b>				<b>SUNRISE: 0456</b>				<b>JUL 09</b>				<b>SUNSET: 1933</b>					
01	CLR	NC		8.00	65	59	61	81	7	19	29.91	30.09	01	OVC	150		10.00	65	61	63	87	5	15	29.96	30.14
04	SCT	NC		8.00	68	60	63	77	8	20	29.91	30.09	04	OVC	050		10.00	67	63	64	87	6	18	29.92	30.11
07	SCT	NC		8.00	72	64	67	76	9	22	29.91	30.10	07	FEW	NC		10.00	70	64	66	82	6	20	29.91	30.10
10	CLR	NC		8.00	80	67	71	64	10	22	29.90	30.09	10	SCT	NC		8.00	78	68	71	71	8	20	29.87	30.06
13	SCT	NC		7.00	86	69	74	57	10	22	29.86	30.05	13	SCT	NC		7.00	84	68	73	59	9	19	29.84	30.03
16	SCT	NC		7.00	87	70	75	57	15	19	29.83	30.01	16	FEW	NC		10.00	88	65	73	46	10	22	29.77	29.96
19	BKN	250		7.00	81	69	73	67	8	19	29.80	29.99	19	BKN	250		9.00	83	69	74	63	8	19	29.74	29.93
22	BKN	250		8.00	79	69	72	72	12	20	29.83	30.02	22	SCT	NC		6.00	79	72	74	79	10	19	29.75	29.93
<b>SUNRISE: 0454</b>				<b>JUL 04</b>				<b>SUNSET: 1934</b>				<b>SUNRISE: 0457</b>				<b>JUL 10</b>				<b>SUNSET: 1932</b>					
01	BKN	250		7.00	77	68	71	74	10	21	29.82	30.00	01	OVC	070		5.00	80	71	74	74	14	22	29.71	29.89
04	BKN	250		5.00	71	68	69	90	6	20	29.81	30.00	04	OVC	200		6.00	78	70	73	76	9	22	29.68	29.86
07	OVC	140		6.00	75	67	70	76	12	24	29.82	30.01	07	SCT	NC		6.00	79	70	73	74	8	22	29.70	29.89
10	OVC	150		6.00	78	69	72	74	13	24	29.80	29.98	10	SCT	NC		7.00	89	72	77	57	16	24	29.70	
13	SCT	NC		6.00	83	72	75	70	13	24	29.77	29.96	13	OVC	250		6.00	91	74	79	57	12	23	29.68	29.86
16	SCT	NC		10.00	86	71	76	61	8	24	29.71	29.89	16	BKN	250		5.00	92	74	79	56	16	25	29.65	29.83
19	SCT	NC		9.00	84	73	76	70	9	24	29.70	29.89	19	OVC	250		4.00	88	76	79	68	7	VR	29.64	29.83
22	SCT	NC		10.00	80	72	75	76	12	25	29.71	29.90	22	OVC	250		10.00	76	69	71	79	5	07	29.70	
<b>SUNRISE: 0454</b>				<b>JUL 05</b>				<b>SUNSET: 1934</b>				<b>SUNRISE: 0458</b>				<b>JUL 11</b>				<b>SUNSET: 1932</b>					
01	SCT	NC		8.00	78	72	74	82	3	VR	29.70	29.89	01	OVC	150		10.00	73	69	70	87	3	15	29.66	29.85
04	BKN	250		6.00	73	71	72	94	0	00	29.70	29.89	04	OVC	120		9.00	74	70	71	88	3	15	29.64	29.83
07	OVC	250		7.00	77	71	73	82	5	02	29.73	29.91	07	BKN	250		7.00	79	71	74	77	6	31	29.67	29.85
10	BKN	250		9.00	84	69	74	61	8	03	29.72	29.90	10	OVC	120		10.00	83	72	75	70	8	03	29.69	29.88
13	OVC	140		8.00	84	71	75	65	8	05	29.69	29.88	13	OVC	025		7.00	79	73	75	82	16	01	29.70	29.89
16	OVC	130		4.00	79	71	74	77	9	05	29.67	29.86	16	BKN	030		10.00	80	70	73	71	13	04	29.70	29.89
19	FEW	NC		5.00	79	72	74	79	0	00	29.67	29.86	19	BKN	250		10.00	75	67	70	76	6	06	29.72	29.91
22	OVC	034		6.00	76	72	73	88	0	00	29.70	29.88	22	BKN	140		10.00	70	68	69	93	6	04	29.76	29.95
<b>SUNRISE: 0455</b>				<b>JUL 06</b>				<b>SUNSET: 1933</b>				<b>SUNRISE: 0458</b>				<b>JUL 12</b>				<b>SUNSET: 1932</b>					
01	OVC	085		6.00	74	70	71	88	0	00	29.67	29.86	01	BKN	140		10.00	68	66	67	93	3	03	29.76	29.95
04	BKN	080		5.00	70	68	69	93	3	35	29.67	29.86	04	BKN	140		10.00	66	64	65	93	5	36	29.76	29.95
07	FEW	NC		10.00	73	65	68	76	6	01	29.68	29.87	07	BKN	090		10.00	70	65	67	84	7	04	29.81	29.99
10	CLR	NC		10.00	81	65	71	58	8	03	29.72	29.90	10	CLR	NC		10.00	79	67	71	67	9	08	29.83	30.02
13	SCT	NC		10.00	83	63	70	51	10	04	29.70	29.88	13	BKN	150		10.00	81	65	71	58	8	05	29.84	30.03
16	SCT	NC		10.00	85	63	71	48	10	03	29.68	29.87	16	BKN	150		10.00	82	63	70	53	10	05	29.82	30.01
19	FEW	NC		10.00	79	63	69	58	6	06	29.68	29.87	19	BKN	200		10.00	76	64	68	67	6	09	29.82	30.01
22	FEW	NC		10.00	71	65	67	81	7	06	29.72	29.91	22	BKN	150		10.00	70	62	65	76	7	11	29.87	30.06

# OBSERVATIONS AT 3-HOURLY INTERVALS

# RICHMOND, VA

JULY 2000

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	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)
<b>SUNRISE: 0459</b>				<b>JUL 13</b>				<b>SUNSET: 1931</b>				<b>SUNRISE: 0503</b>				<b>JUL 19</b>				<b>SUNSET: 1928</b>					
01	OVC	055		10.00	66	61	63	84	3	12	29.87	30.06	01	BKN	120		10.00	76	69	71	79	3	17	29.76	29.95
04	OVC	050		10.00	67	62	64	84	0	00	29.85	30.03	04	OVC	100		9.00	75	70	72	84	5	17	29.74	29.93
07	FEW	NC		10.00	70	64	66	82	3	19	29.85	30.03	07	OVC	120		7.00	77	71	73	82	5	35	29.76	29.95
10	OVC	140		10.00	76	56	64	50	8	17	29.86	30.05	10	OVC	140	HZ	6.00	78	72	74	82	0	00	29.76	29.94
13	OVC	050		10.00	75	61	66	62	0	00	29.83	30.02	13	OVC	140		7.00	79	73	75	82	8	01	29.74	29.93
16	OVC	050		10.00	75	64	68	69	3	06	29.81	30.00	16	OVC	019		7.00	79	73	75	82	13	05	29.65	29.84
19	OVC	080		10.00	74	64	68	71	5	12	29.78	29.97	19	OVC	035		9.00	70	69	69	97	16	06	29.65	29.84
22	BKN	065		10.00	69	62	65	78	5	13	29.79	29.97	22	OVC	002		5.00	69	69	69	100	8	07	29.63	29.82
<b>SUNRISE: 0460</b>				<b>JUL 14</b>				<b>SUNSET: 1931</b>				<b>SUNRISE: 0504</b>				<b>JUL 20</b>				<b>SUNSET: 1927</b>					
01	BKN	070		10.00	68	63	65	84	3	13	29.76	29.95	01	OVC	005		3.00	65	64	64	97	17	01	29.62	29.81
04	BKN	042		10.00	68	64	66	87	5	16	29.73	29.92	04	OVC	008		10.00	63	62	62	97	10	35	29.66	29.85
07	SCT	NC		10.00	71	66	68	84	5	VR	29.72	29.91	07	OVC	040		7.00	64	62	63	93	10	34	29.72	29.91
10	SCT	NC		10.00	79	69	72	72	10	21	29.71	29.90	10	SCT	NC		10.00	72	62	66	71	7	VR	29.72	29.91
13	SCT	NC		7.00	84	70	74	63	8	20	29.66	29.85	13	BKN	200		10.00	77	62	68	60	9	36	29.72	29.91
16	SCT	NC		7.00	87	69	75	55	14	22	29.58	29.77	16	BKN	150		10.00	76	63	68	64	8	02	29.71	29.90
19	SCT	NC		9.00	81	70	74	69	13	21	29.58	29.76	19	BKN	060		10.00	74	64	68	71	5	02	29.71	29.90
22	BKN	200		10.00	76	70	72	82	12	18	29.58	29.77	22	FEW	NC		9.00	68	65	66	90	5	24	29.76	29.95
<b>SUNRISE: 0500</b>				<b>JUL 15</b>				<b>SUNSET: 1930</b>				<b>SUNRISE: 0505</b>				<b>JUL 21</b>				<b>SUNSET: 1927</b>					
01	OVC	200		10.00	74	69	71	85	14	19	29.54	29.72	01	BKN	250		7.00	65	64	64	97	0	00	29.73	29.92
04	OVC	050	BR	4.00	67	66	66	97	6	04	29.49	29.68	04	BKN	250		6.00	64	63	63	96	0	00	29.75	29.94
07	BKN	200		8.00	65	65	65	100	6	16	29.52	29.71	07	OVC	250		6.00	67	66	66	97	0	00	29.75	29.94
10	SCT	NC		10.00	75	68	70	79	0	00	29.51	29.70	10	BKN	250		10.00	76	66	70	72	0	00	29.76	29.95
13	SCT	NC		10.00	82	66	71	58	3	VR	29.51	29.69	13	SCT	NC		10.00	81	65	71	58	5	VR	29.74	29.93
16	BKN	150		10.00	79	66	70	65	8	17	29.48	29.67	16	SCT	NC		10.00	82	66	71	58	12	20	29.71	29.90
19	BKN	200		10.00	73	69	70	87	5	05	29.51	29.70	19	SCT	NC		9.00	78	69	72	74	8	19	29.71	29.90
22	SCT	NC		7.00	70	69	69	97	10	10	29.57	29.75	22	CLR	NC		5.00	71	67	68	87	6	21	29.74	29.93
<b>SUNRISE: 0501</b>				<b>JUL 16</b>				<b>SUNSET: 1930</b>				<b>SUNRISE: 0506</b>				<b>JUL 22</b>				<b>SUNSET: 1926</b>					
01	SCT	NC		6.00	67	67	67	100	0	00	29.55	29.74	01	OVC	080		5.00	71	68	69	90	5	19	29.76	29.95
04	BKN	200		4.00	67	67	67	100	3	13	29.56	29.75	04	SCT	NC		3.00	70	68	69	93	6	24	29.76	29.94
07	FEW	NC		3.00	70	68	69	93	0	00	29.60	29.79	07	OVC	130		4.00	71	67	68	87	5	35	29.80	29.99
10	SCT	NC		8.00	78	71	73	79	5	15	29.61	29.80	10	OVC	150		8.00	75	67	70	76	3	06	29.82	30.01
13	BKN	065		10.00	77	69	72	77	3	04	29.58	29.77	13	OVC	150		9.00	74	68	70	82	3	16	29.84	30.03
16	SCT	NC		10.00	86	65	72	50	7	29	29.58	29.77	16	BKN	150		8.00	77	68	71	74	3	23	29.82	30.01
19	BKN	047		10.00	74	69	71	85	14	11	29.65	29.84	19	FEW	NC		8.00	73	67	69	81	6	13	29.85	30.04
22	OVC	200		10.00	68	65	66	90	3	10	29.69	29.88	22	CLR	NC		4.00	68	66	67	93	0	00	29.87	30.06
<b>SUNRISE: 0502</b>				<b>JUL 17</b>				<b>SUNSET: 1929</b>				<b>SUNRISE: 0506</b>				<b>JUL 23</b>				<b>SUNSET: 1925</b>					
01	BKN	250		3.00	66	66	66	100	0	00	29.68	29.87	01	CLR	NC		3.00	65	64	64	97	0	00	29.90	30.09
04	FEW	NC		6.00	64	64	64	100	3	02	29.70	29.89	04	BKN	120		3.00	65	65	65	100	6	03	29.89	30.08
07	CLR	NC		5.00	69	67	68	93	6	07	29.74	29.93	07	SCT	NC		3.00	68	66	67	93	6	04	29.93	30.12
10	SCT	NC		7.00	76	69	71	79	8	03	29.79	29.97	10	OVC	150		10.00	77	68	71	74	8	06	29.94	30.13
13	SCT	NC		7.00	82	68	73	63	5	VR	29.78	29.97	13	OVC	120		10.00	80	68	72	67	7	06	29.91	30.10
16	SCT	NC		10.00	84	67	73	57	8	34	29.77	29.96	16	OVC	150		10.00	79	66	71	65	10	07	29.88	30.07
19	CLR	NC		10.00	80	66	71	62	6	34	29.78	29.96	19	OVC	110		10.00	72	67	69	84	6	03	29.91	30.09
22	CLR	NC		8.00	71	67	68	87	3	20	29.80	29.99	22	OVC	110		10.00	71	66	68	84	6	05	29.91	30.10
<b>SUNRISE: 0503</b>				<b>JUL 18</b>				<b>SUNSET: 1929</b>				<b>SUNRISE: 0507</b>				<b>JUL 24</b>				<b>SUNSET: 1925</b>					
01	CLR	NC		7.00	68	66	67	93	3	14	29.79	29.98	01	OVC	110		10.00	69	66	67	90	6	01	29.90	30.09
04	CLR	NC		5.00	67	66	66	97	0	00	29.79	29.98	04	OVC	034		10.00	68	66	67	93	8	02	29.87	30.06
07	CLR	NC		6.00	73	67	69	81	6	26	29.82	30.01	07	OVC	020		2.50	66	64	65	93	10	04	29.87	30.06
10	CLR	NC		10.00	82	68	73	63	10	22	29.81	30.00	10	OVC	040		4.00	66	64	65	93	12	04	29.88	30.07
13	FEW	NC		10.00	88	68	74	52	10	26	29.78	29.96	13	OVC	015		5.00	67	64	65	91	9	05	29.91	30.10
16	SCT	NC		10.00	88	69	75	54	13	23	29.75	29.94	16	OVC	012		2.00	66	64	65	93	12	04	29.91	30.10
19	FEW	NC		10.00	83	71	75	67	7	19	29.74	29.93	19	OVC	028		10.00	64	62	63	93	10	04	29.92	30.11
22	FEW	NC		9.00	75	70	72	84	7	21	29.77	29.96	22	BKN	032		10.00	63	62	62	97	6	02	29.93	30.12

# OBSERVATIONS AT 3-HOURLY INTERVALS

# RICHMOND, VA

JULY 2000

RIC

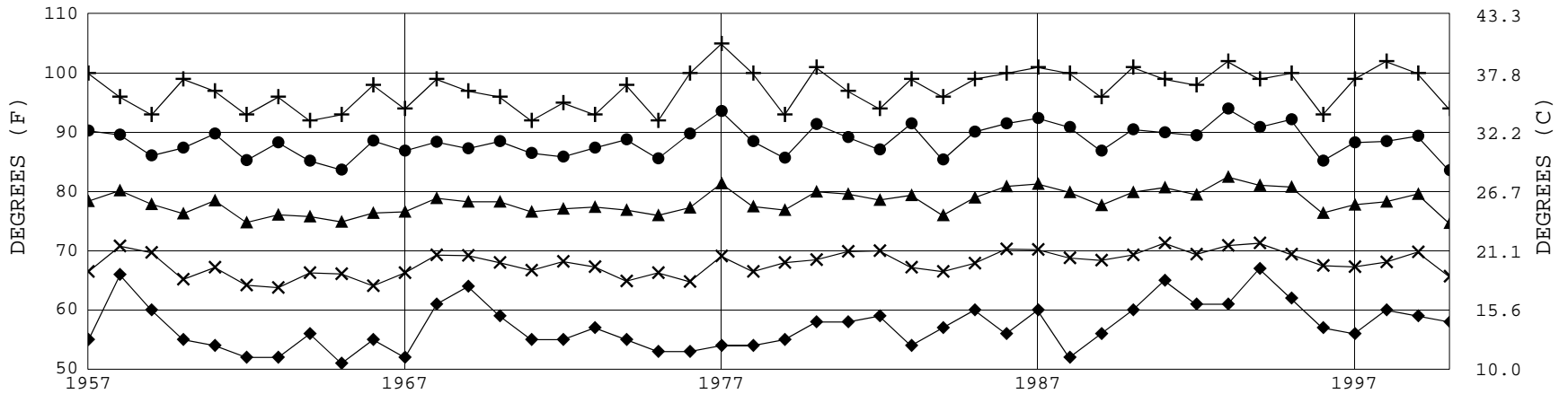
WBAN # 13740

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)	
	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)			SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL										
SUNRISE: 0508								JUL 25								SUNSET: 1924															
01	OVC	031			6.00	BR		65	64	64	97	6	01	29.93	30.12	01	CLR	NC			10.00			71	70	70	96	3	13	29.91	30.10
04	OVC	055			6.00	-RA BR		64	63	63	96	5	01	29.94	30.12	04	OVC	007			10.00			71	70	70	96	0	00	29.90	30.09
07	OVC	007			2.00	-RA BR		64	64	64	100	8	04	29.96	30.15	07	OVC	003			4.00	BR		73	72	72	96	6	21	29.92	30.11
10	OVC	014			6.00	BR		68	64	66	87	8	07	29.99	30.18	10	OVC	010			3.00	BR		77	73	74	88	8	19	29.92	30.11
13	OVC	018			7.00			70	64	66	82	8	05	30.00	30.19	13	OVC	140			10.00			80	74	76	82	5	20	29.90	30.09
16	OVC	017			7.00	-RA		68	67	67	96	7	05	29.98	30.17	16	BKN	040			7.00	-RA		80	75	77	85	5	21	29.86	30.05
19	OVC	008			3.00	-RA BR		67	66	66	97	7	05	29.97	30.16	19	BKN	150			10.00			77	75	76	94	6	19	29.87	30.06
22	OVC	005			6.00	DZ BR		66	65	65	96	8	03	29.97	30.16	22	BKN	150			10.00			75	74	74	96	7	18	29.91	30.10
SUNRISE: 0509								JUL 26								SUNSET: 1923															
01	OVC	004			6.00	-RA BR		66	66	66	100	9	03	29.93	30.12	3-HOURLY OBSERVATION NOTES															
04	OVC	006			4.00	-RA BR		67	66	66	97	10	03	29.90	30.09	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.															
07	OVC	004			3.00	-RA BR		67	67	67	100	9	36	29.93	30.11	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.															
10	OVC	005			4.00	BR		70	69	69	97	10	01	29.93	30.12	NC = No ceiling detected.															
13	OVC	009			5.00	BR		72	69	70	91	9	32	29.95	30.14	& = Original observation contained additional weather elements.															
16	OVC	009			8.00			71	68	69	90	10	31	29.93	30.12	See page 3 for additional notes.															
19	OVC	021			10.00			71	68	69	90	8	36	29.93	30.11																
22	BKN	022			9.00			68	66	67	93	3	02	29.94	30.13																
SUNRISE: 0510								JUL 27								SUNSET: 1922															
01	BKN	250			4.00	BR		67	66	66	97	0	00	29.94	30.13																
04	BKN	009			7.00			66	65	65	96	8	33	29.92	30.11																
07	SCT	NC			8.00			68	65	66	90	0	00	29.94	30.13																
10	BKN	250			10.00			77	67	70	71	6	32	29.96	30.15																
13	BKN	034			10.00			79	68	72	69	5	VR	29.92	30.11																
16	SCT	NC			10.00			84	69	74	61	6	12	29.87	30.06																
19	SCT	NC			10.00			79	71	74	77	6	08	29.86	30.05																
22	BKN	130			9.00			73	70	71	90	5	13	29.89	30.08																
SUNRISE: 0510								JUL 28								SUNSET: 1921															
01	BKN	120			6.00	BR		71	70	70	96	3	11	29.87	30.06																
04	FEW	NC			1.75	BR		68	68	68	100	0	00	29.85	30.04																
07	SCT	NC			0.50	FG		70	70	70	100	0	00	29.87	30.06																
10	SCT	NC			6.00	HZ		82	71	75	69	3	32	29.87	30.06																
13	BKN	040			9.00			84	72	76	67	7	16	29.83	30.02																
16	BKN	150			6.00	HZ		76	71	73	85	3	22	29.79	29.98																
19	BKN	150			9.00			75	69	71	82	5	08	29.82	30.01																
22	OVC	050			5.00	BR		67	66	66	97	9	04	29.87	30.06																
SUNRISE: 0511								JUL 29								SUNSET: 1920															
01	CLR	NC			9.00			68	66	67	93	5	30	29.86	30.05																
04	BKN	002			2.00	-RA BR		67	67	67	100	0	00	29.82	30.01																
07	BKN	002			2.00	BR		68	67	67	96	5	06	29.86	30.05																
10	BKN	250			10.00			77	69	72	77	3	VR	29.89	30.08																
13	BKN	250			10.00			84	71	75	65	6	12	29.86	30.05																
16	BKN	250			9.00			85	71	75	63	7	12	29.84	30.03																
19	OVC	250			9.00			80	72	75	76	6	12	29.84	30.03																
22	BKN	150			10.00			74	71	72	91	5	15	29.86	30.05																
SUNRISE: 0512								JUL 30								SUNSET: 1920															
01	BKN	150			6.00	BR		74	70	71	88	0	00	29.88	30.06																
04	BKN	200			5.00	BR		71	70	70	96	5	14	29.85	30.03																
07	OVC	005			5.00	BR		73	72	72	96	7	20	29.89	30.08																
10	OVC	016			8.00			81	74	76	79	0	00	29.90	30.09																
13	BKN	060			10.00	-TSRA		80	73	75	79	10	28	29.88	30.07																
16	BKN	250			10.00			84	74	77	72	0	00	29.84	30.03																
19	BKN	250			10.00			77	71	73	82	9	17	29.85	30.04																
22	SCT	NC			10.00			73	71	72	94	6	18	29.90	30.09																

## 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)	DIRECTION	
							STATION	SEA LEVEL				
01			69	66	67	89	29.80	29.99	7.48	4	1	17
02			69	66	67	90	29.79	29.98	7.08	4	0	0
03			68	66	67	91	29.79	29.98	6.85	4	1	1
04			68	65	66	92	29.79	29.98	6.83	4	1	3
05			68	65	66	92	29.80	29.99	6.34	5	1	36
06			68	66	67	91	29.81	30.00	5.45	4	0	0
07			70	66	68	87	29.82	30.01	6.29	6	1	35
08			72	66	69	83	29.83	30.02	7.60	6	1	1
09			75	67	70	76	29.82	30.01	8.13	6	1	35
10			77	67	70	71	29.83	30.02	8.32	6	0	0
11			79	67	71	68	29.82	30.01	8.42	6	0	0
12			80	67	71	66	29.82	30.01	8.32	6	2	19
13			80	67	72	66	29.81	30.00	8.61	7	1	35
14			81	66	72	62	29.80	29.98	8.52	8	1	33
15			81	67	72	62	29.79	29.97	8.74	9	1	20
16			81	67	72	64	29.78	29.97	8.52	9	0	0
17			80	66	71	66	29.78	29.96	8.60	9	0	0
18			79	67	71	69	29.78	29.97	8.58	8	1	13
19			77	67	71	74	29.78	29.97	9.03	7	2	11
20			74	67	70	80	29.79	29.98	9.03	5	2	14
21			72	67	69	84	29.81	30.00	8.94	6	2	14
22			71	67	68	87	29.81	30.00	8.55	6	2	14
23			71	67	68	87	29.81	30.00	8.03	4	2	16
24			70	67	68	89	29.81	30.00	7.69	5	2	18

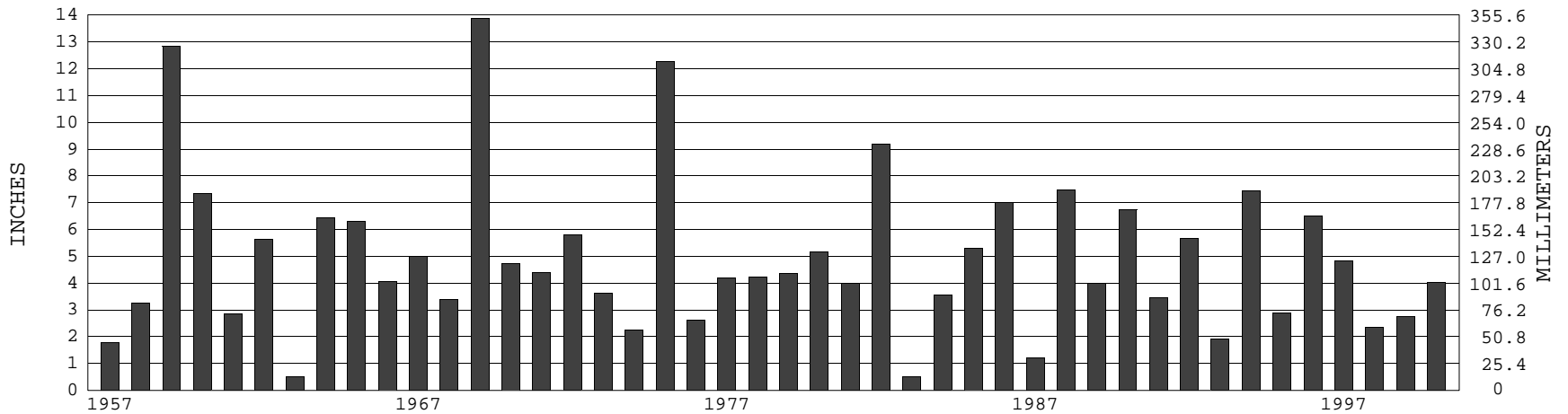
### RICHMOND, VA JULY TEMPERATURES



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

Long-Term (1957-2000) Mean: 78.2      1961-1990 Normal: 78.0

### RICHMOND, VA JULY PRECIPITATION



Long-Term (1957-2000) Mean Monthly Total: 4.96

1961-1990 Normal: 5.03



**JULY 2000  
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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