



MAY 1998

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

MAY 1998
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	64	57	61	-1	59	60	4	0	TSRA RA BR				0.27	29.52	29.72	4.0	09	4.8	14	07	11	07	01	
02	73	54	64	2	50	56	1	0	TS TSRA RA HZ				0.12	29.41	29.61	6.2	23	7.9	26	23	22	23	02	
03	80	52	66	4	54	59	0	1	RA BR				0.24	29.54	29.74	8.0	23	9.4	34	24	26	26	03	
04	73	57	65	2	58	60	0	0	TS TSRA TSRAGS RA BR				0.24	29.57	29.77	6.5	17	8.0	24	14	17	13	04	
05	72	54	63	0	56	59	2	0	RA BR				0.09	29.66	29.86	4.8	20	6.8	20	16	16	24	05	
06	76	53	65	2	55	59	0	0	FG+ BR				0.00	29.74	29.94	1.9	01	5.0	14	26	10	29	06	
07	74	56	65	2	59	62	0	0	RA BR				0.15	29.66	29.86	5.1	17	7.3	33	20	26	19	07	
08	69	59	64	0	60	61	1	0	TS TSRA RA FG BR				1.01	29.35	29.55	3.0	16	6.0	25	22	22	22	08	
09	69	59	64	0	58	60	1	0	RA DZ BR				0.02	29.48	29.69	12.4	35	12.9	34*	01	26*	01	09	
10	70	58	64	0	56	59	1	0					0.00	29.52	29.72	6.8	01	8.2	17	36	14	36	10	
11	60	53	57	-8	53	54	8	0	RA BR				0.02	29.50	29.71	9.4	03	9.7	25	01	21	01	11	
12	58	51	55*	-10	52	53	10	0	RA DZ BR				0.26	29.68	29.89	9.8	01	10.2	22	01	17	03	12	
13	64	49	57	-8	51	53	8	0	RA DZ BR				0.01	29.90	30.10	8.5	03	9.0	20	01	16	01	13	
14	75	45*	60	-5	48	53	5	0	FG+ BR				T	29.94	30.14	5.6	02	6.1	18	01	15	36	14	
15	85	47	66	0	51	58	0	1	HZ				0.00	29.87	30.07	0.5	22	2.1	11	22	10	22	15	
16	89	57	73	7	59	65	0	8	HZ				0.00	29.79	29.99	1.7	16	2.6	17	20	10	17	16	
17	86	65	76	10	64	68	0	11	RA BR HZ				T	29.80	30.00	4.6	01	5.8	20	36	16	01	17	
18	86	61	74	7	53	62	0	9	BR				0.00	29.87	30.07	4.8	36	7.4	21	35	15	04	18	
19	92*	64	78	11	55	64	0	13					0.00	29.76	29.95	7.4	25	8.1	25	23	20	23	19	
20	86	65	76	9	62	67	0	11					0.00	29.67	29.87	6.0	27	6.6	20	24	16	24	20	
21	86	63	75	8	60	66	0	10	RA				0.05	29.58	29.78	5.6	34	7.1	23	01	20	01	21	
22	78	55	67	-1	46	56	0	2					0.00	29.72	29.92	5.2	35	8.5	22	01	18	01	22	
23	66	54	60	-8	52	56	5	0	RA BR				0.31	29.77	29.97	4.6	05	6.4	16	05	13	01	23	
24	71	51	61	-7	57	59	4	0	RA BR				0.05	29.81	30.02	2.7	20	3.8	11	21	9	18	24	
25	88	64	76	7	63	68	0	11	BR HZ				0.00	29.68	29.88	6.1	26	8.4	23	28	18	28	25	
26	84	67	76	7	62	67	0	11	RA BR				0.01	29.72	29.92	3.1	34	6.6	20	30	16	30	26	
27	69	62	66	-3	64	64	0	1	TSRA RA FG BR				0.87	29.85	30.05	3.6	06	4.4	15	13	14	13	27	
28	78	63	71	2	64	66	0	6	BR				0.00	29.89	30.09	1.5	11	4.1	11	15	9	15	28	
29	83	64	74	4	69	70	0	9	TS RA BR HZ				T	29.82	30.02	5.4	18	6.4	17	21	15	13	29	
30	89	68	79*	9	67	71	0	14	BR HZ				0.00	29.78	29.98	2.8	16	5.0	32	18	23	17	30	
31	88	68	78	8	64	69	0	13	BR HZ				0.00	29.62	29.82	11.2	21	11.5	25	21	22	21	31	
MONTHLY AVERAGES										TOTALS-->				<-- MONTHLY AVERAGES										
DEPARTURE FROM NORMAL																								
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.15 DATE: 07-08				SEA LEVEL PRESSURE DATE TIME										
MONTHLY TOTAL DEPARTURE					SEASON TO DATE TOTAL DEPARTURE					GREATEST 24-HR SNOWFALL: DATE: DATE:				MAXIMUM : 30.19 14 1024										
HEATING: 50 -11 3644 -319					COOLING: 131 39 191 89					GREATEST SNOW DEPTH: DATE: DATE:				MINIMUM : 29.48 08 1810										
HEATING: 50 -11 3644 -319					COOLING: 131 39 191 89					NUMBER OF DAYS WITH =>		MAXIMUM TEMP ≥ 90: 1		MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH : 16								
HEATING: 50 -11 3644 -319					COOLING: 131 39 191 89							MAXIMUM TEMP ≤ 32 : 0		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 9								
HEATING: 50 -11 3644 -319					COOLING: 131 39 191 89							THUNDERSTORMS : 6		HEAVY FOG : 2		SNOWFALL ≥ 1.0 INCH :								

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA

MAY 1998

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	0.26	0.27		
02	0.10	0.02											02	0.04	0.03	0.05	0.01								02	0.13	0.12		
03				T									03				T	0.01							03	0.23	0.24		
04	0.03												04					0.14		0.06	0.08	0.02	0.01	0.06	04	0.25	0.24		
05					T								05												05		0.09		
06													06												06		0.00		
07													07	T	0.01	T									07		0.15		
08	T	0.04	T	0.08	0.15	0.01	T	0.29	0.24	0.02	0.01	T	08	T	0.02	0.08	0.07					T	0.10	0.04	08		1.01		
09													09	T											09		0.02		
10													10												10		0.00		
11													11	0.01	T	T									11		0.02		
12													12	T											12		0.26		
13	T	T	T	T	T	T	0.01	0.08	0.02	0.05	0.04	0.03	13	T	T	T								13		0.01			
14													14												14	0.00	T		
15													15												15		0.00		
16													16												16		0.00		
17		T											17												17		T		
18													18												18		0.00		
19													19												19		0.00		
20													20												20		0.00		
21													21					0.01	0.03						21		0.05		
22													22												22		0.00		
23													23												23		0.31		
24													24	T											24		0.05		
25													25												25		0.00		
26													26												26		0.01		
27	T	T	T	T	0.04	0.02		0.04	0.04			0.09	0.13	27	0.15		T	T					T	T	27	0.51	0.87		
28														28											28		0.00		
29														29											29		T		
30													30												30		0.00		
31													31												31		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	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 MAY 1998

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.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

ADDITIONAL NOTES AND CORRECTIONS:
Sunrise and sunset times listed in the March and April 1998 LCD were incorrect and should not be used.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							.75	10.00	
02							6.00	10.00	
03							5.00	10.00	
04							1.00	10.00	
05							7.00	10.00	
06							.25	10.00	
07							4.00	10.00	
08							2.00	10.00	
09							5.00	10.00	
10							10.00	10.00	
11							2.50	10.00	
12							1.50	10.00	
13							2.00	10.00	
14							<.25	10.00	
15							6.00	10.00	
16							7.00	10.00	
17							3.00	10.00	
18							4.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							7.00	10.00	
22							10.00	10.00	
23							3.00	10.00	
24							2.50	10.00	
25							3.00	10.00	
26							5.00	10.00	
27							.50	7.00	
28							2.00	10.00	
29							1.50	7.00	
30							4.00	9.00	
31							2.00	10.00	
MONTHLY AVGS							4.12	9.77	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING 31									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0 2 16 7									

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

MAY 1998

RIC

WBAN # 13740

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)					
	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Oktas	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	DRY BULB	DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0514					MAY 01					SUNSET: 1859					SUNRISE: 0508					MAY 07					SUNSET: 1904				
01	OVC	075		10.00		60	55	57	84	0	00	29.70	29.91	01	BKN	090		8.00		60	57	58	90	0	00	29.74	29.93		
04	OVC	033		10.00		58	56	57	93	5	13	29.65	29.85	04	OVC	250		7.00		56	55	55	97	3	15	29.72	29.92		
07	OVC	006		2.00	-RA BR	60	59	59	96	7	10	29.60	29.80	07	OVC	250		5.00	BR	62	58	60	86	3	19	29.73	29.93		
10	OVC	005		10.00		61	60	60	97	7	08	29.56	29.76	10	OVC	130		9.00		74	60	65	62	12	24	29.72	29.92		
13	OVC	005		3.00	RA BR	63	62	62	97	8	09	29.49	29.69	13	OVC	130		7.00	-RA	68	62	64	81	9	22	29.71	29.91		
16	OVC	005		7.00		63	62	62	97	6	08	29.44	29.64	16	OVC	080		9.00		67	61	63	81	9	12	29.62	29.82		
19	OVC	012		2.50	-RA BR	63	62	62	97	3	09	29.41	29.62	19	OVC	130		6.00	-RA BR	66	62	64	87	9	13	29.56	29.77		
22	OVC	010		2.50	BR	62	60	61	93	5	10	29.42	29.62	22	OVC	100		10.00	-RA	66	59	62	78	18	19	29.55	29.75		
SUNRISE: 0513					MAY 02					SUNSET: 1900					SUNRISE: 0507					MAY 08					SUNSET: 1905				
01	OVC	090		8.00	-RA	60	53	56	78	5	04	29.38	29.58	01	OVC	070		4.00	RA BR	61	60	60	97	9	22	29.50	29.70		
04	OVC	004		7.00		58	47	52	67	7	24	29.38	29.58	04	OVC	027		2.00	TSRA BR	62	62	62	100	16	15	29.39	29.59		
07	FEW	NC		10.00		58	45	51	62	10	22	29.41	29.61	07	OVC	004		3.00	BR	63	62	62	97	6	23	29.38	29.58		
10	FEW	NC		10.00		65	47	55	52	8	23	29.42	29.62	10	OVC	120		10.00	TS	62	60	61	93	5	14	29.34	29.54		
13	BKN	047		10.00		70	51	59	51	14	22	29.39	29.59	13	OVC	013		8.00		66	63	64	90	12	20	29.33	29.53		
16	BKN	055		10.00		71	51	60	49	16	22	29.38	29.58	16	OVC	140		10.00		61	59	60	93	5	01	29.28	29.48		
19	BKN	200		10.00		64	52	57	65	5	28	29.43	29.63	19	BKN	250		10.00		61	60	60	97	0	00	29.30	29.50		
22	SCT	NC		10.00		54	52	53	93	5	15	29.47	29.67	22	OVC	017		7.00		61	60	60	97	5	36	29.36	29.56		
SUNRISE: 0512					MAY 03					SUNSET: 1900					SUNRISE: 0506					MAY 09					SUNSET: 1905				
01	BKN	250		10.00		58	51	54	78	9	25	29.48	29.68	01	OVC	005		7.00		61	60	60	97	10	34	29.37	29.57		
04	FEW	NC		10.00		53	50	51	89	6	21	29.49	29.69	04	OVC	008		6.00	BR	60	58	59	93	13	35	29.38	29.58		
07	SCT	NC		10.00		60	53	56	78	8	26	29.54	29.74	07	OVC	008		7.00	-RA	59	57	58	93	9	36	29.45	29.65		
10	CLR	NC		10.00		72	55	62	55	13	23	29.57	29.77	10	OVC	012		10.00		60	57	58	90	13	32	29.50	29.70		
13	BKN	150		10.00		79	54	64	42	16	24	29.53	29.73	13	OVC	015		6.00	DZ BR	62	59	60	90	12	33	29.50	29.70		
16	BKN	250		10.00		80	54	64	41	15	20	29.50	29.70	16	BKN	055		10.00		68	59	63	73	17	32	29.49	29.69		
19	OVC	110		10.00	-RA	70	55	61	59	20	29	29.55	29.75	19	BKN	041		7.00		62	58	60	86	16	36	29.53	29.73		
22	OVC	060		9.00	-RA	61	59	60	93	7	15	29.59	29.79	22	OVC	049		10.00		62	56	59	81	12	35	29.57	29.78		
SUNRISE: 0511					MAY 04					SUNSET: 1901					SUNRISE: 0505					MAY 10					SUNSET: 1906				
01	BKN	080		7.00		60	59	59	96	5	16	29.57	29.77	01	OVC	039		10.00		61	55	58	81	8	01	29.53	29.73		
04	BKN	250		5.00	BR	57	57	57	100	6	17	29.55	29.75	04	OVC	030		10.00		60	55	57	84	8	32	29.56	29.76		
07	OVC	008		4.00	BR	60	59	59	96	6	19	29.59	29.78	07	OVC	023		10.00		61	56	58	84	7	35	29.54	29.74		
10	OVC	010		8.00		62	59	60	90	7	18	29.62	29.82	10	OVC	029		10.00		64	56	59	75	7	33	29.56	29.76		
13	BKN	024		10.00		68	59	63	73	5	VR	29.59	29.79	13	OVC	037		10.00		67	56	61	68	9	36	29.51	29.72		
16	OVC	039		10.00		73	59	64	62	7	VR	29.53	29.73	16	OVC	049		10.00		68	58	62	70	7	01	29.47	29.67		
19	OVC	060		10.00		65	61	63	87	13	13	29.54	29.74	19	OVC	042		10.00		62	58	60	86	8	05	29.49	29.69		
22	BKN	055		10.00		61	56	58	84	9	17	29.59	29.80	22	OVC	012		10.00		59	55	57	87	8	05	29.49	29.69		
SUNRISE: 0510					MAY 05					SUNSET: 1902					SUNRISE: 0504					MAY 11					SUNSET: 1907				
01	OVC	021		8.00		59	56	57	90	13	17	29.61	29.81	01	OVC	009		10.00		58	55	56	90	8	01	29.45	29.65		
04	OVC	014		8.00		60	57	58	90	13	16	29.62	29.82	04	OVC	009		10.00		55	53	54	93	10	05	29.45	29.65		
07	OVC	013		10.00		61	59	60	93	6	15	29.63	29.83	07	OVC	009		7.00		55	53	54	93	9	01	29.47	29.67		
10	OVC	021		8.00	-RA	64	60	62	87	6	22	29.67	29.87	10	OVC	022		10.00		57	54	55	90	12	36	29.49	29.69		
13	BKN	250		10.00		71	54	61	55	0	00	29.67	29.87	13	OVC	014		8.00	-RA	57	54	55	90	15	02	29.50	29.70		
16	OVC	075		10.00		71	52	60	51	7	22	29.66	29.85	16	OVC	015		10.00		58	53	55	84	12	02	29.51	29.71		
19	BKN	250		10.00		66	53	59	63	7	22	29.68	29.88	19	OVC	020		10.00		56	52	54	87	10	02	29.54	29.75		
22	SCT	NC		10.00		56	53	54	90	0	00	29.71	29.91	22	OVC	020		10.00		55	52	53	90	6	05	29.58	29.78		
SUNRISE: 0509					MAY 06					SUNSET: 1903					SUNRISE: 0503					MAY 12					SUNSET: 1908				
01	BKN	055		10.00		55	52	53	90	0	00	29.71	29.91	01	OVC	027		10.00		53	52	52	96	6	35	29.56	29.76		
04	SCT	NC		9.00		56	53	54	90	5	33	29.72	29.92	04	OVC	027		9.00		53	51	52	93	9	36	29.57	29.77		
07	OVC	001		0.25	BR	57	57	57	100	6	36	29.77	29.97	07	OVC	006		5.00	-RA BR	53	52	52	96	10	36	29.61	29.81		
10	FEW	NC		10.00		67	58	62	73	6	36	29.78	29.98	10	OVC	011		2.50	RA BR	54	53	53	97	12	36	29.65	29.85		
13	FEW	NC		10.00		73	54	62	51	3	VR	29.74	29.94	13	OVC	020		10.00	-RA	57	53	55	87	14	03	29.68	29.88		
16	SCT	NC		10.00		76	53	62	45	7	VR	29.73	29.93	16	OVC	019		10.00		55	53	54	93	9	02	29.72	29.93		
19	FEW	NC		10.00		69	55	61	61	6	07	29.73	29.93	19	OVC	020		8.00		53	51	52	93	12	02	29.77	29.97		
22	CLR	NC		10.00		61	57	59	87	5	13	29.76	29.97	22	OVC	006		2.00	DZ BR	51	51	51	100	9	01	29.81	30.02		

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

MAY 1998

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)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
<p>SUNRISE: 0502 MAY 13 SUNSET: 1909</p>																													
01	OVC	013		3.00	DZ BR	51	50	51	96	10	03	29.81	30.01	01	CLR	NC		10.00		69	51	59	53	5	28	29.83	30.03		
04	OVC	007		10.00	DZ	51	50	51	96	12	02	29.85	30.05	04	CLR	NC		10.00		65	50	57	59	5	28	29.81	30.01		
07	OVC	005		7.00		51	50	51	96	12	03	29.90	30.11	07	CLR	NC		10.00		71	53	61	53	5	29	29.84	30.03		
10	OVC	010		10.00		55	51	53	87	12	05	29.93	30.14	10	CLR	NC		10.00		84	58	68	41	7	26	29.82	30.02		
13	BKN	032		10.00		61	54	57	78	10	01	29.91	30.11	13	CLR	NC		10.00		89	55	68	32	9	21	29.76	29.96		
16	OVC	027		10.00		62	53	57	73	7	02	29.89	30.09	16	CLR	NC		10.00		91	53	68	28	10	26	29.70	29.90		
19	SCT	NC		10.00		60	53	56	78	3	03	29.90	30.10	19	CLR	NC		10.00		85	56	67	37	6	26	29.67	29.87		
22	CLR	NC		8.00		51	50	51	96	3	06	29.94	30.14	22	CLR	NC		10.00		78	59	66	52	9	24	29.68	29.88		
<p>SUNRISE: 0501 MAY 14 SUNSET: 1910</p>																													
01	CLR	NC		6.00	BR	49	48	48	97	5	33	29.94	30.14	01	CLR	NC		10.00		74	58	64	57	5	29	29.68	29.88		
04	VV	001		< .25	FG	46	46	46	100	5	01	29.94	30.14	04	FEW	NC		10.00		68	58	62	70	3	26	29.67	29.86		
07	OVC	001		1.00	BR	49	49	49	100	8	02	29.97	30.17	07	OVC	250		10.00		73	58	64	59	8	27	29.70	29.90		
10	CLR	NC		10.00		61	50	55	67	10	02	29.99	30.19	10	SCT	NC		10.00		86	62	70	45	12	28	29.70	29.89		
13	CLR	NC		10.00		71	49	59	46	9	01	29.94	30.14	13	OVC	140		10.00		79	64	69	60	7	28	29.69	29.88		
16	CLR	NC		10.00		74	44	58	34	10	05	29.91	30.11	16	BKN	250		10.00		85	63	71	48	9	29	29.65	29.85		
19	CLR	NC		10.00		67	46	56	47	6	08	29.91	30.11	19	BKN	250		10.00		81	63	69	54	8	25	29.63	29.83		
22	CLR	NC		10.00		55	47	51	74	0	00	29.94	30.14	22	CLR	NC		10.00		72	64	67	76	0	00	29.65	29.84		
<p>SUNRISE: 0500 MAY 15 SUNSET: 1911</p>																													
01	CLR	NC		10.00		51	47	49	86	0	00	29.91	30.11	01	FEW	NC		10.00		73	62	66	69	6	30	29.61	29.81		
04	CLR	NC		10.00		49	46	47	90	0	00	29.90	30.11	04	SCT	NC		10.00		65	62	63	90	0	00	29.59	29.79		
07	CLR	NC		6.00	HZ	59	53	56	81	0	00	29.93	30.13	07	OVC	150		9.00		72	63	66	73	8	26	29.62	29.81		
10	CLR	NC		10.00		75	52	62	45	5	VR	29.93	30.12	10	SCT	NC		10.00		77	63	68	62	5	30	29.57	29.77		
13	CLR	NC		10.00		81	47	62	30	5	21	29.87	30.06	13	SCT	NC		10.00		85	62	70	46	10	34	29.53	29.73		
16	CLR	NC		10.00		85	49	64	29	5	25	29.83	30.03	16	SCT	NC		10.00		84	62	70	48	10	35	29.51	29.70		
19	CLR	NC		10.00		79	55	65	44	0	00	29.82	30.01	19	BKN	090		10.00		75	67	70	76	0	00	29.54	29.73		
22	CLR	NC		10.00		68	56	61	66	0	00	29.83	30.03	22	CLR	NC		10.00		69	45	56	42	10	01	29.63	29.83		
<p>SUNRISE: 0460 MAY 16 SUNSET: 1912</p>																													
01	CLR	NC		10.00		61	56	58	84	3	15	29.81	30.01	01	CLR	NC		10.00		66	42	54	42	15	01	29.67	29.86		
04	CLR	NC		10.00		59	56	57	90	0	00	29.81	30.01	04	SCT	NC		10.00		58	43	50	58	8	01	29.71	29.91		
07	CLR	NC		7.00		64	59	61	84	0	00	29.83	30.02	07	BKN	250		10.00		63	44	53	50	6	35	29.76	29.96		
10	CLR	NC		10.00		83	60	68	46	3	11	29.81	30.01	10	CLR	NC		10.00		70	43	56	38	7	36	29.77	29.97		
13	FEW	NC		10.00		87	57	68	36	5	VR	29.79	29.98	13	BKN	250		10.00		74	45	58	36	6	30	29.72	29.92		
16	SCT	NC		10.00		87	58	69	37	3	18	29.76	29.96	16	BKN	250		10.00		78	46	60	32	13	28	29.67	29.87		
19	SCT	NC		10.00		78	64	69	62	5	16	29.75	29.94	19	BKN	250		10.00		72	54	61	53	6	17	29.68	29.88		
22	SCT	NC		10.00		72	61	65	69	0	00	29.81	30.01	22	SCT	NC		10.00		64	52	57	65	7	08	29.74	29.94		
<p>SUNRISE: 0459 MAY 17 SUNSET: 1912</p>																													
01	CLR	NC		7.00		70	64	66	82	6	14	29.76	29.96	01	BKN	100		10.00		63	52	57	68	7	07	29.74	29.94		
04	CLR	NC		6.00	BR	67	63	64	87	5	15	29.76	29.96	04	BKN	085		10.00		61	55	58	81	7	06	29.73	29.93		
07	BKN	120		3.00	HZ	70	65	67	84	5	35	29.82	30.02	07	OVC	048		10.00		62	53	57	73	12	04	29.77	29.97		
10	CLR	NC		6.00	HZ	80	66	71	62	13	36	29.84	30.03	10	OVC	024		3.00	RA	56	44	50	65	10	02	29.80	30.00		
13	BKN	140		7.00		84	67	73	57	10	34	29.81	30.01	13	OVC	014		10.00		59	47	53	64	8	02	29.78	29.98		
16	FEW	NC		9.00		85	64	71	50	9	01	29.78	29.98	16	SCT	NC		10.00		65	50	57	59	9	11	29.73	29.93		
19	SCT	NC		10.00		80	62	69	54	3	36	29.79	29.99	19	BKN	250		10.00		64	54	58	70	0	00	29.75	29.96		
22	CLR	NC		7.00		69	64	66	84	0	00	29.84	30.03	22	CLR	NC		6.00	BR	57	56	56	96	3	19	29.80	30.01		
<p>SUNRISE: 0458 MAY 18 SUNSET: 1913</p>																													
01	CLR	NC		4.00	BR	64	62	63	93	5	VR	29.85	30.05	01	CLR	NC		5.00	BR	54	53	53	97	3	20	29.79	29.99		
04	CLR	NC		10.00		63	52	57	68	10	35	29.85	30.05	04	CLR	NC		8.00		52	51	52	97	0	00	29.79	29.99		
07	CLR	NC		10.00		68	53	59	59	12	01	29.91	30.11	07	OVC	250		4.00	BR	59	56	57	90	0	00	29.85	30.05		
10	CLR	NC		10.00		79	51	63	38	10	07	29.93	30.13	10	OVC	130		10.00		63	55	58	76	3	09	29.85	30.05		
13	FEW	NC		10.00		84	51	64	32	7	04	29.89	30.09	13	OVC	040		10.00		65	58	61	78	6	21	29.85	30.05		
16	FEW	NC		10.00		85	52	65	32	8	04	29.85	30.05	16	OVC	035		10.00		69	59	63	70	5	21	29.80	30.00		
19	FEW	NC		10.00		81	51	63	35	7	29	29.84	30.03	19	OVC	041		10.00		67	59	62	76	5	17	29.78	29.98		
22	CLR	NC		10.00		73	54	62	51	7	26	29.85	30.05	22	OVC	027		10.00		66	60	62	81	7	16	29.79	29.99		

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

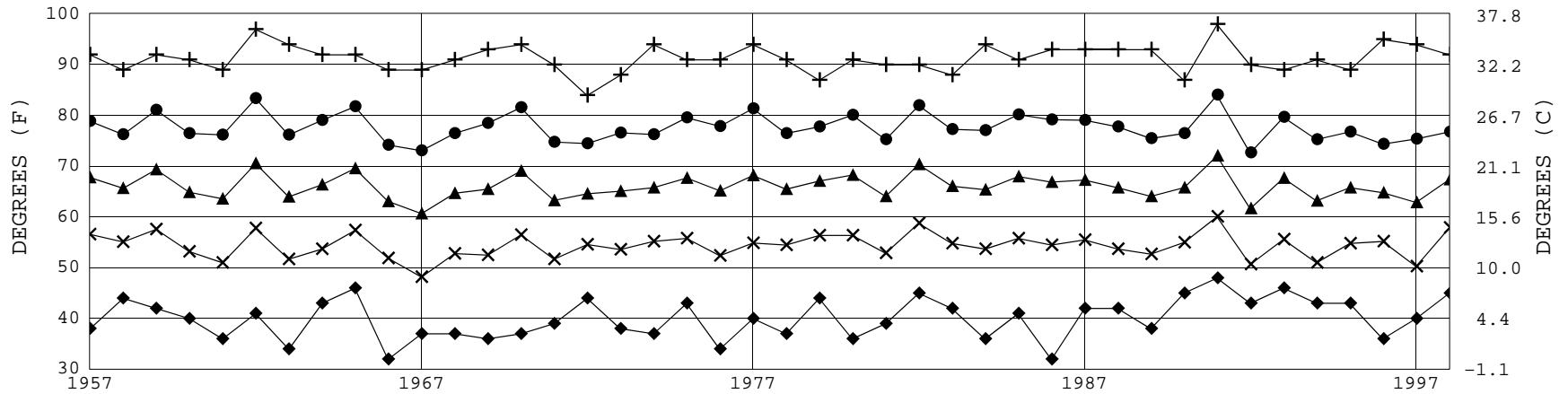
MAY 1998

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		DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING 100'S OF FT		DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		
				SUNRISE: 0453		MAY 25		SUNSET: 1919								SUNRISE: 0450		MAY 31		SUNSET: 1923					
01	OVC	200		7.00	65	61	63	87	3	05	29.75	29.95	01	BKN	250		6.00	70	59	63	68	5	19	29.75	29.95
04	OVC	015		8.00	65	62	63	90	6	16	29.72	29.92	04	BKN	250		4.00	68	64	65	87	7	19	29.71	29.91
07	OVC	008		4.00	67	65	66	93	8	22	29.73	29.93	07	FEW	NC		3.00	73	66	69	78	8	22	29.73	29.93
10	FEW	NC		5.00	78	68	71	71	8	26	29.68	29.88	10	BKN	250		8.00	84	66	72	55	15	20	29.70	29.90
13	SCT	NC		10.00	85	61	70	45	16	28	29.67	29.87	13	OVC	250		9.00	86	69	74	57	17	20	29.64	29.84
16	BKN	250		10.00	87	61	70	42	13	29	29.66	29.85	16	BKN	250		10.00	87	69	75	55	16	20	29.56	29.76
19	BKN	150		10.00	78	65	70	64	0	00	29.64	29.84	19	BKN	250		9.00	82	59	68	46	12	20	29.50	29.70
22	BKN	150		10.00	77	63	68	62	7	25	29.65	29.85	22	BKN	250		9.00	80	56	65	44	13	21	29.48	29.67
				SUNRISE: 0453		MAY 26		SUNSET: 1920				3-HOURLY OBSERVATION NOTES													
01	OVC	200		9.00	74	64	68	71	10	25	29.64	29.84	Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibility = 8/8.												
04	BKN	075		9.00	72	63	66	73	14	31	29.68	29.87	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.												
07	OVC	120		6.00	69	66	67	90	5	23	29.69	29.89	NC = No ceiling detected.												
10	FEW	NC		10.00	78	61	67	56	6	VR	29.72	29.91	& = Original observation contained additional weather elements.												
13	BKN	050		10.00	80	61	68	52	5	35	29.71	29.91	See page 3 for additional notes.												
16	BKN	250		10.00	84	59	68	43	10	29	29.71	29.91													
19	OVC	250		7.00	75	62	67	64	9	04	29.78	29.98													
22	OVC	250		10.00	71	60	64	68	3	07	29.82	30.02													
				SUNRISE: 0452		MAY 27		SUNSET: 1920				SUMMARY BY HOUR													
01	BKN	039		7.00	67	64	65	91	0	00	29.83	30.03	AVERAGES												
04	OVC	049		7.00	67	62	64	84	5	03	29.82	30.02	RESULTANT WIND (MPH)												
07	OVC	027		2.00	62	61	61	96	0	00	29.88	30.08	HOUR (LST)												
10	OVC	003		1.50	64	63	63	96	5	10	29.88	30.08	CEILOMETER												
13	OVC	005		1.50	65	65	65	100	5	07	29.85	30.05	EFF CLD AMT												
16	OVC	007		3.00	67	64	65	91	6	04	29.83	30.02	DRY BULB												
19	OVC	012		4.00	66	65	65	96	5	03	29.85	30.05	DEW POINT												
22	OVC	028		4.00	66	65	65	96	6	36	29.85	30.05	WET BULB												
				SUNRISE: 0452		MAY 28		SUNSET: 1921				RELATIVE HUMIDITY													
01	OVC	011		2.00	65	64	64	97	3	02	29.86	30.06	PRESSURE (INCHES, HG)												
04	OVC	003		2.00	63	63	63	100	0	00	29.87	30.07	STATION												
07	OVC	005		2.00	64	62	63	93	5	05	29.91	30.11	SEA LEVEL												
10	OVC	020		10.00	69	63	65	81	0	00	29.93	30.13	VISIBILITY (MILES)												
13	BKN	034		10.00	76	65	69	69	3	VR	29.92	30.12	WIND SPEED (MPH)												
16	SCT	NC		10.00	78	63	68	60	6	VR	29.89	30.09	SPEED												
19	FEW	NC		10.00	75	63	67	66	6	15	29.87	30.07	DIRECTION												
22	CLR	NC		6.00	67	64	65	91	8	15	29.89	30.09													
				SUNRISE: 0451		MAY 29		SUNSET: 1922																	
01	SCT	NC		4.00	64	63	63	96	0	00	29.87	30.07													
04	OVC	003		2.50	65	65	65	100	5	18	29.87	30.07													
07	OVC	002		1.50	66	66	66	100	7	19	29.88	30.08													
10	OVC	018		5.00	76	69	71	79	8	21	29.87	30.06													
13	SCT	NC		4.00	81	72	75	74	10	17	29.81	30.01													
16	BKN	030		4.00	78	72	74	82	6	10	29.76	29.96													
19	SCT	NC		5.00	79	72	74	79	7	19	29.74	29.93													
22	CLR	NC		5.00	74	72	73	94	0	00	29.80	30.00													
				SUNRISE: 0451		MAY 30		SUNSET: 1923																	
01	CLR	NC		6.00	71	68	69	90	3	21	29.78	29.98													
04	CLR	NC		5.00	68	67	67	96	6	20	29.76	29.96													
07	FEW	NC		4.00	73	69	70	87	6	26	29.80	30.00													
10	SCT	NC		5.00	83	71	75	67	5	01	29.80	30.00													
13	SCT	NC		6.00	88	72	77	59	6	10	29.79	29.98													
16	BKN	250		5.00	88	72	77	59	8	10	29.73	29.93													
19	OVC	250		7.00	78	62	68	58	6	15	29.76	29.96													
22	CLR	NC		8.00	72	59	64	64	0	00	29.78	29.98													

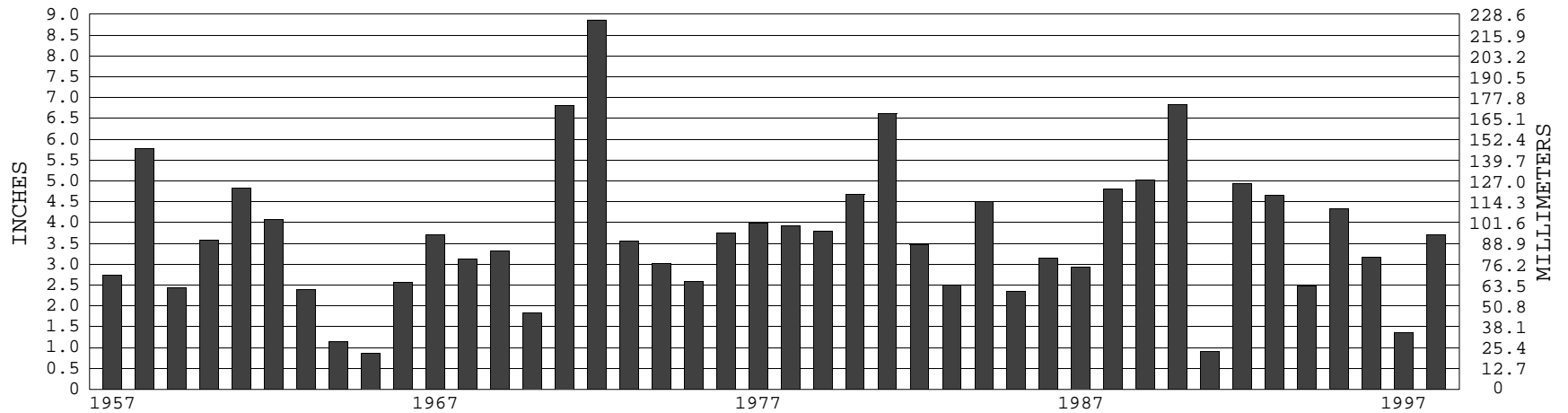
RICHMOND, VA MAY TEMPERATURES



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

Long-Term (1957-1998) Mean: 66.1 1961-1990 Normal: 66.0

RICHMOND, VA MAY PRECIPITATION



Long-Term (1957-1998) Mean Monthly Total: 3.70

1961-1990 Normal: 3.84



MAY 1998
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.

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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