



MAY 2005

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

RICHMOND, VA

RICHMOND INTL AIRPORT (RIC)
 Lat: 37°30' N Long: 77°19' W Elev (Ground): 164 Feet
 Time Zone: EASTERN WBAN: 13740 ISSN #:0198-537X

MAY 2005
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	68	49	59	-2	46	53	6	0	RA BR			0.0	0.78	29.76	29.95	6.9	34	9.1	31	34	25	35	01		
02	67	43	55	-6	39	48	10	0	RA			0.0	T	29.86	30.04	3.3	28	6.7	25	32	22	31	02		
03	65	41	53	-8	35	45	12	0				0.0	0.00	29.96	30.14	1.2	24	4.1	20	29	14	23	03		
04	56	46	51*	-10	46	48	14	0	RA BR			0.0	0.12	30.16	30.35	4.5	06	5.3	15	05	12	04	04		
05	65	41*	53	-8	41	48	12	0	BR			0.0	0.00	30.25	30.44	6.0	08	7.4	20	12	17	12	05		
06	55	48	52	-10	41	46	13	0	RA BR			0.0	0.19	29.98	30.17	11.1	02	11.5	26	02	21	02	06		
07	74	42	58	-5	41	50	7	0				0.0	0.00	29.79	29.98	8.1	32	8.9	26	29	21	29	07		
08	78	53	66	3	39	52	0	1				0.0	0.00	29.76	29.95	11.4	34	11.8	32*	36	26*	34	08		
09	80	49	65	2	45	54	0	0				0.0	0.00	29.83	30.02	3.0	03	6.0	17	01	13	33	09		
10	79	49	64	0	51	57	1	0				0.0	0.00	29.87	30.05	7.6	15	8.0	20	18	15	14	10		
11	87*	54	71	7	58	63	0	6				0.0	0.00	29.83	30.02	4.4	20	5.5	15	28	12	20	11		
12	86	62	74*	10	58	64	0	9	HZ			0.0	0.00	29.94	30.13	6.2	05	9.4	22	07	18	03	12		
13	67	58	63	-1	47	54	2	0	RA			0.0	T	30.10	30.29	6.8	12	7.9	17	15	14	15	13		
14	83	57	70	5	58	63	0	5	HZ			0.0	0.00	29.80	29.98	10.6	21	11.3	24	21	20	22	14		
15	76	64	70	5	63	65	0	5	TSRA RA BR HZ			0.0	0.20	29.66	29.85	5.1	24	7.0	21	24	17	20	15		
16	74	58	66	1	50	57	0	1	FG BR			0.0	0.00	29.79	29.97	5.9	02	8.1	23	36	18	01	16		
17	73	53	63	-2	48	55	2	0				0.0	0.00	29.91	30.10	3.4	07	5.5	20	06	15	05	17		
18	77	53	65	-1	53	58	0	0				0.0	0.00	29.90	30.08	2.8	14	3.4	14	14	10	14	18		
19	70	63	67	1	59	61	0	2	RA BR HZ			0.0	0.17	29.83		4.1	13	4.9	17	16	13	16	19		
20	73	53	63	-3	58	59	2	0	TSRA RA DZ BR			0.0	0.97	29.63	29.81	2.7	32	13.8	28	36	23	36	20		
21	73	49	61	-6	47	54	4	0	DZ BR			0.0	T	29.74	29.93	6.7	36	7.5	21	01	16	36	21		
22	80	47	64	-3	47	56	1	0				0.0	0.00	29.59	29.78	5.0	29	5.7	22	32	18	30	22		
23	79	60	70	2	54	60	0	5	TSRA RA BR			0.0	0.81	29.42	29.61	2.0	36	4.6	24	01	21	02	23		
24	63	53	58	-11	52	54	7	0	RA FG+ BR			0.0	0.30	29.49	29.67	5.2	03	6.2	21	04	16	04	24		
25	59	53	56	-13	52	53	9	0	RA BR			0.0	0.19	29.63		6.8	34	7.5	20	36	15	33	25		
26	81	55	68	-1	52	59	0	3				0.0	0.00	29.60	29.79	7.5	30	8.6	26	36	21	31	26		
27	85	57	71	2	54	62	0	6				0.0	0.00	29.69	29.87	5.8	26	6.4	22	24	17	26	27		
28	80	56	68	-1	55	61	0	3	RA BR HZ			0.0	T	29.69	29.88	3.5	26	5.4	31	27	23	27	28		
29	81	53	67	-3	50	58	0	2				0.0	0.00	29.75	29.94	5.1	27	6.0	22	26	18	28	29		
30	81	55	68	-2	53	60	0	3	RA BR			0.0	0.07	29.78	29.96	1.5	07	5.7	15	32	13	32	30		
31	79	59	69	-1	56	61	0	4	RA BR			0.0	0.42	29.88	30.06	3.4	06	5.0	17	02	15	01	31		
MONTHLY AVERAGES										TOTALS-->				<-- MONTHLY AVERAGES											
DEPARTURE FROM NORMAL														SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.11 DATE: 19-20				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 0.0 DATE:				MAXIMUM : 30.51 05 0954				MINIMUM : 29.49 23 1454							
SEASON TO DATE TOTAL DEPARTURE										NUMBER OF DAYS WITH				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 0				PRECIPITATION ≥ 0.01 INCH: 11			
HEATING: 102 22 3577 -334										MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH: 10							
COOLING: 55 -52 84 -65										THUNDERSTORMS: 3				HEAVY FOG: 1				SNOWFALL ≥ 1.0 INCH: 0							

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA

MAY 2005

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	T	0.07	0.05	0.29	0.22	0.02	0.10	0.02		0.01			01												01		0.78		
02													02					T	T	T					02		T		
03													03												03		0.00		
04					T	T	T	T	0.02	T	T	0.01	04	T	0.02	0.06	0.01								04		0.12		
05													05												05		0.00		
06		T	0.01	T	T	0.01	0.02	0.06	0.05	0.02	0.02	T	06												06		0.19		
07													07												07		0.00		
08													08												08		0.00		
09													09												09		0.00		
10													10												10		0.00		
11													11												11		0.00		
12													12												12		0.00		
13													13												13		T		
14													14												14		0.00		
15													15	T	T	0.05	0.04	0.05	0.04	0.01		T	0.01	T	T	15		0.20	
16													16												16		0.00		
17													17												17		0.00		
18													18												18		0.00		
19	0.01	0.02	T										19												19		0.17		
20	0.01	0.04	0.38	0.41	0.10		T		0.02	T			20	T	T	0.01	T	T	T	T	T	T	T	T	20		0.97		
21	T												21												21		T		
22													22												22		0.00		
23													23			T	0.45	0.09	T	0.01	0.09	0.13	0.04	T	23		0.81		
24													24	0.01	T	0.03	0.11	0.03	0.05	0.04	0.01	T		0.02	24		0.30		
25	0.02	0.02	0.03	0.04	0.05	0.01	T						25			0.01	0.01								25	0.18	0.19		
26													26												26		0.00		
27													27												27		0.00		
28													28												28		T		
29									T				29												29		0.00		
30													30												30		0.07		
31	0.12	0.10	T	0.04	0.06	0.03	T						31											T	31	0.35	0.42		

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

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 : 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 1971–2000

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	PL 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 2005

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 to saturation at constant pressure by evaporation of water into it.

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

ADDITIONAL NOTES:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							2.50	10.00	
02							8.00	10.00	
03							10.00	10.00	
04							6.00	10.00	
05							5.00	10.00	
06							2.50	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							7.00	10.00	
12							6.00	10.00	
13							10.00	10.00	
14							6.00	10.00	
15							2.00	10.00	
16							.13	10.00	
17							10.00	10.00	
18							8.00	10.00	
19							2.00	6.00	
20							1.50	10.00	
21							6.00	10.00	
22							10.00	10.00	
23							3.00	10.00	
24							.13	10.00	
25							1.50	10.00	
26							7.00	10.00	
27							10.00	10.00	
28							6.00	10.00	
29							8.00	10.00	
30							5.00	10.00	
31							3.00	10.00	
MONTHLY AVGS							6.01	9.87	
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 10 14									

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

MAY 2005

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	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: 0514				MAY 01		SUNSET: 1859				SUNRISE: 0508				MAY 07		SUNSET: 1904														
01	OVC	047			10.00	-RA	67	60	63	79	10	24	29.60	29.79	01	BKN	200			10.00			48	37	43	66	10	34	29.84	30.03
04	OVC	019			2.50	+RA BR	58	56	57	93	17	01	29.64	29.83	04	FEW	NC			10.00			45	36	41	71	9	33	29.85	30.04
07	OVC	031			4.00	RA BR	53	50	51	89	12	36	29.75	29.94	07	FEW	NC			10.00			49	38	44	66	10	34	29.86	30.05
10	FEW	NC			10.00		59	42	51	54	17	34	29.76	29.95	10	FEW	NC			10.00			61	38	50	43	10	33	29.84	30.03
13	SCT	NC			10.00		66	40	53	39	10	28	29.79	29.98	13	FEW	NC			10.00			70	41	55	35	10	32	29.77	29.96
16	SCT	NC			10.00		67	37	52	33	15	26	29.77	29.96	16	BKN	150			10.00			73	42	57	33	12	27	29.70	29.90
19	BKN	250			10.00		64	37	51	37	3	29	29.80	29.99	19	SCT	NC			10.00			67	43	54	42	9	31	29.71	29.91
22	BKN	090			10.00		52	46	49	80	3	03	29.86	30.06	22	FEW	NC			10.00			57	47	52	69	5	32	29.74	29.94
SUNRISE: 0513				MAY 02		SUNSET: 1900				SUNRISE: 0507				MAY 08		SUNSET: 1905														
01	CLR	NC			10.00		48	44	46	86	6	36	29.87	30.06	01	CLR	NC			10.00			54	45	49	72	9	33	29.73	29.93
04	CLR	NC			10.00		44	41	43	89	0	00	29.86	30.05	04	CLR	NC			10.00			54	44	49	69	10	33	29.74	29.93
07	BKN	095			10.00		50	45	48	83	0	00	29.88	30.07	07	FEW	NC			10.00			59	38	49	46	15	34	29.79	29.98
10	OVC	250			10.00		63	36	50	37	5	16	29.86	30.06	10	CLR	NC			10.00			69	35	52	29	18	36	29.79	29.98
13	OVC	180			10.00		65	32	49	29	9	23	29.81	30.00	13	CLR	NC			10.00			75	36	55	24	21	34	29.75	29.94
16	OVC	085			10.00		65	33	50	31	10	25	29.77	29.97	16	CLR	NC			10.00			78	37	57	23	15	34	29.71	29.90
19	OVC	070			9.00	-RA	58	41	50	54	13	29	29.83	30.02	19	CLR	NC			10.00			73	36	54	26	6	31	29.73	29.92
22	FEW	NC			10.00		52	39	46	61	10	01	29.91	30.10	22	CLR	NC			10.00			61	41	51	48	0	00	29.77	29.96
SUNRISE: 0512				MAY 03		SUNSET: 1900				SUNRISE: 0506				MAY 09		SUNSET: 1906														
01	BKN	100			10.00		45	39	42	80	3	34	29.92	30.11	01	CLR	NC			10.00			54	42	48	64	0	00	29.81	30.00
04	BKN	090			10.00		44	37	41	76	0	00	29.93	30.12	04	CLR	NC			10.00			50	41	46	71	3	31	29.83	30.02
07	SCT	NC			10.00		48	38	43	68	3	35	29.97	30.16	07	FEW	NC			10.00			59	42	51	54	10	01	29.87	30.06
10	FEW	NC			10.00						0	00	29.99		10	CLR	NC			10.00			70	43	56	38	12	36	29.87	30.06
13	FEW	NC			10.00		62	31	48	31	7	VR	29.95	30.14	13	CLR	NC			10.00			76	45	59	33	3	VR	29.82	30.01
16	FEW	NC			10.00		64	31	49	29	8	29	29.90	30.10	16	CLR	NC			10.00			79	46	61	31	5	01	29.79	29.98
19	FEW	NC			10.00		62	31	48	31	5	26	29.94	30.13	19	CLR	NC			10.00			70	49	58	47	12	14	29.79	29.98
22	FEW	NC			10.00		48	40	44	74	7	13	29.99	30.19	22	CLR	NC			10.00			59	50	54	72	5	12	29.84	30.03
SUNRISE: 0511				MAY 04		SUNSET: 1901				SUNRISE: 0505				MAY 10		SUNSET: 1907														
01	BKN	100			10.00		48	38	43	68	5	02	30.02	30.22	01	CLR	NC			10.00			55	47	51	74	3	14	29.85	30.04
04	OVC	060			10.00		49	43	46	80	0	00	30.08	30.27	04	CLR	NC			10.00			50	47	48	89	6	12	29.85	30.04
07	OVC	039			9.00	-RA	49	44	47	83	6	03	30.13	30.32	07	CLR	NC			10.00			56	51	53	84	9	14	29.90	30.09
10	OVC	045			10.00	-RA	52	48	50	86	9	02	30.17	30.37	10	CLR	NC			10.00			68	50	58	53	7	15	29.91	30.10
13	OVC	055			9.00	-RA	52	47	49	83	6	07	30.17	30.36	13	CLR	NC			10.00			76	53	63	45	9	16	29.87	30.06
16	OVC	070			9.00		52	48	50	86	8	08	30.16	30.36	16	FEW	NC			10.00			79	54	64	42	12	15	29.82	30.01
19	SCT	NC			10.00		52	48	50	86	5	09	30.20	30.39	19	FEW	NC			10.00			68	54	60	61	10	14	29.83	30.02
22	CLR	NC			7.00		47	45	46	93	6	08	30.24	30.43	22	BKN	250			10.00			59	53	56	81	7	14	29.86	30.05
SUNRISE: 0510				MAY 05		SUNSET: 1902				SUNRISE: 0504				MAY 11		SUNSET: 1907														
01	CLR	NC			6.00	BR	44	43	44	96	0	00	30.25	30.44	01	FEW	NC			10.00			55	50	52	83	6	14	29.84	30.03
04	CLR	NC			7.00		41	40	41	96	5	03	30.25	30.45	04	FEW	NC			10.00			55	53	54	93	5	15	29.82	30.01
07	BKN	250			6.00	BR	47	44	46	90	6	05	30.30	30.49	07	FEW	NC			10.00			60	55	57	84	7	19	29.86	30.05
10	OVC	250			10.00		60	41	51	50	12	10	30.32	30.51	10	FEW	NC			10.00			72	59	64	64	6	22	29.86	30.05
13	OVC	200			10.00		64	39	52	40	12	10	30.27	30.46	13	SCT	NC			10.00			82	59	68	46	0	00	29.84	30.03
16	OVC	150			10.00		61	39	50	44	10	10	30.23	30.42	16	FEW	NC			10.00			85	58	68	40	0	00	29.79	29.98
19	OVC	150			10.00		56	42	49	60	8	08	30.20	30.39	19	BKN	250			10.00			76	63	68	64	6	19	29.79	29.98
22	OVC	140			10.00		52	43	48	72	7	04	30.20	30.39	22	FEW	NC			9.00			75	61	66	62	9	23	29.81	30.00
SUNRISE: 0509				MAY 06		SUNSET: 1903				SUNRISE: 0503				MAY 12		SUNSET: 1908														
01	OVC	090			10.00		51	42	47	71	7	04	30.13	30.33	01	CLR	NC			7.00			71	59	64	66	7	24	29.81	30.00
04	OVC	060			7.00	-RA	49	45	47	86	8	01	30.05	30.25	04	BKN	200			7.00			69	60	64	73	0	00	29.82	30.01
07	OVC	040			4.00	-RA BR	49	46	48	90	9	02	30.04	30.24	07	BKN	130			10.00			72	59	64	64	8	02	29.88	30.07
10	OVC	070			7.00	-RA	49	45	47	86	14	04	30.04	30.24	10															

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

MAY 2005

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						
SUNRISE: 0502						MAY 13						SUNSET: 1909						SUNRISE: 0457						MAY 19						SUNSET: 1914					
01	BKN	070			10.00	61	44	52	54	6	11	30.08	30.27	01	OVC	017			5.00	-RA	BR	60	55	57	84	3	18	29.89	30.08						
04	OVC	060			10.00	59	49	54	69	6	05	30.12	30.31	04	OVC	060			2.00	BR		59	57	58	93	0	00	29.85	30.04						
07	OVC	060			10.00	59	49	54	69	7	06	30.16	30.35	07	OVC	100			4.00	BR		62	58	60	86	5	17	29.89	30.08						
10	OVC	055			10.00	61	49	55	65	10	10	30.16	30.35	10	OVC	030			6.00	HZ		65	58	61	78	0	00	29.88							
13	OVC	060			10.00	65	45	54	49	10	13	30.14	30.33	13	OVC	019			3.00	HZ		68	59	63	73	7	12	29.85							
16	OVC	055			10.00	65	39	52	39	9	13	30.08	30.27	16	OVC	024			3.00	HZ		69	59	63	70	8	12	29.80							
19	OVC	055			10.00	61	44	52	54	10	14	30.04	30.24	19	OVC	021			3.00	HZ		67	61	63	81	9	10	29.79							
22	OVC	055			10.00	59	47	53	64	8	16	30.04	30.23	22	OVC	014			3.00	BR		64	61	62	90	9	10	29.76	29.95						
SUNRISE: 0501						MAY 14						SUNSET: 1910						SUNRISE: 0456						MAY 20						SUNSET: 1915					
01	OVC	025			10.00	59	44	51	58	5	18	30.00	30.19	01	OVC	029			3.00	-RA	BR	65	63	64	93	15	18	29.68	29.87						
04	BKN	021			10.00	57	48	52	72	8	18	29.91	30.10	04	OVC	047			2.50	+RA	BR	63	62	62	97	9	21	29.64	29.83						
07	OVC	015			10.00	61	53	57	75	8	20	29.90	30.09	07	OVC	017			3.00	BR		66	63	64	90	13	18	29.57	29.76						
10	OVC	019			10.00	71	61	65	71	13	24	29.85	30.04	10	OVC	027			3.00	BR		67	64	65	91	13	21	29.55	29.73						
13	FEW	NC			10.00	80	63	69	56	14	23	29.77	29.96	13	OVC	029			10.00			64	59	61	84	20	33	29.55	29.73						
16	SCT	NC			8.00	82	64	70	55	15	22	29.68	29.87	16	OVC	009			10.00			55	52	53	90	16	35	29.60	29.79						
19	BKN	250			6.00	78	63	68	60	12	21	29.69	29.88	19	OVC	011			4.00	-RA	BR	54	51	52	90	17	01	29.67	29.86						
22	BKN	250			7.00	72	63	66	73	9	19	29.67	29.86	22	OVC	010			8.00	-DZ		53	51	52	93	16	01	29.73	29.92						
SUNRISE: 0500						MAY 15						SUNSET: 1911						SUNRISE: 0456						MAY 21						SUNSET: 1916					
01	BKN	250			6.00	71	58	63	63	15	21	29.65	29.84	01	OVC	018			10.00			53	49	51	86	12	35	29.71	29.90						
04	BKN	110			5.00	70	64	66	82	9	22	29.63	29.82	04	BKN	028			10.00			52	48	50	86	10	35	29.74	29.93						
07	OVC	150			6.00	71	63	66	76	8	23	29.67	29.86	07	SCT	NC			10.00			54	48	51	80	9	36	29.78	29.97						
10	OVC	150			10.00	75	59	65	58	10	25	29.68	29.87	10	FEW	NC			10.00			65	46	55	51	12	36	29.78	29.97						
13	OVC	150			10.00	74	60	65	62	7	26	29.66	29.85	13	BKN	060			10.00			72	46	58	40	10	36	29.73	29.93						
16	OVC	020			3.00	68	64	66	87	0	00	29.65	29.83	16	BKN	090			10.00			71	43	56	36	6	01	29.70	29.89						
19	OVC	140			4.00	66	64	65	93	0	00	29.63	29.82	19	FEW	NC			10.00			68	44	55	42	3	34	29.71	29.90						
22	BKN	005			5.00	65	64	65	98	0	00	29.68	29.87	22	SCT	NC			10.00			55	49	52	80	0	00	29.73	29.92						
SUNRISE: 0459						MAY 16						SUNSET: 1912						SUNRISE: 0455						MAY 22						SUNSET: 1917					
01	OVC	009			2.00	64	64	64	100	5	19	29.66	29.85	01	SCT	NC			10.00			54	48	51	80	6	23	29.69	29.88						
04	BKN	035			7.00	62	59	60	90	9	35	29.68	29.87	04	FEW	NC			10.00			48	45	47	89	3	18	29.67	29.86						
07	SCT	NC			10.00	59	50	54	72	13	01	29.78	29.97	07	FEW	NC			10.00			60	49	54	67	3	25	29.65	29.84						
10	SCT	NC			10.00	67	46	56	48	17	36	29.81	30.00	10	CLR	NC			10.00			73	45	58	37	10	31	29.62	29.82						
13	BKN	250			10.00	71	46	58	41	3	VR	29.80	29.98	13	SCT	NC			10.00			77	42	58	29	14	30	29.58	29.76						
16	BKN	250			10.00	74	47	59	38	8	32	29.77	29.96	16	BKN	200			10.00			79	44	60	29	12	30	29.53	29.71						
19	BKN	250			10.00	68	48	57	49	7	03	29.81	30.00	19	OVC	150			10.00			75	46	59	36	5	26	29.54	29.72						
22	BKN	250			10.00	60	49	54	67	7	05	29.86	30.05	22	OVC	130			10.00			66	53	59	63	0	00	29.53	29.71						
SUNRISE: 0459						MAY 17						SUNSET: 1913						SUNRISE: 0454						MAY 23						SUNSET: 1918					
01	OVC	060			10.00	58	49	53	72	5	03	29.86	30.05	01	OVC	100			10.00			68	49	57	51	0	00	29.49	29.67						
04	BKN	200			10.00	55	46	50	72	8	03	29.89	30.08	04	BKN	120			10.00			63	48	55	58	0	00	29.47	29.65						
07	SCT	NC			10.00	59	43	51	56	10	03	29.94	30.14	07	SCT	NC			10.00			63	51	56	65	0	00	29.45	29.63						
10	BKN	250			10.00	66	44	55	45	6	09	29.96	30.15	10	SCT	NC			10.00			72	51	60	48	0	00	29.44	29.62						
13	BKN	055			10.00	70	48	58	46	7	VR	29.92	30.11	13	SCT	NC			10.00			78	53	63	42	7	29	29.36	29.54						
16	BKN	055			10.00	71	48	58	44	0	00	29.88	30.07	16	OVC	023			4.00	-RA	BR	65	61	63	87	13	02	29.39	29.57						
19	BKN	250			10.00	67	52	59	59	3	11	29.88	30.08	19	OVC	065			6.00	-RA	BR	63	60	61	90	7	34	29.44	29.62						
22	BKN	250			10.00	59	51	55	75	3	10	29.90	30.10	22	BKN	100			3.00	-RA	BR	61	58	59	90	9	23	29.45	29.63						
SUNRISE: 0458						MAY 18						SUNSET: 1914						SUNRISE: 0454						MAY 24						SUNSET: 1918					
01	BKN	250			9.00	55	51	53	87	0	00	29.90	30.09	01	BKN	150			3.00	BR		60	58	59	93	6	28	29.41	29.59						
04	BKN	050			10.00	55	50	52	83	0	00	29.90	30.09	04	SCT	NC			4.00	BR		56	54	55	93	0	00	29.38	29.57						
07	OVC	050			8.00	59	51	55	75	0	00	29.94	30.13	07	BKN	002			2.00	BR		57	55	56	93	6	01	29.43	29.61						
10	OVC	050			10.00	66	52	58	61	5	19	29.94	30.14	10	OVC	024			8.00			63	51	56	65	6	VR	29.44	29.62						
13	OVC	033			9.00	72	56	62	57	0	00	29.89	30.09	13	OVC	010			9.00			59	42	50	54	9	07	29.45	29.63						
16	BKN	070			8.00	74	58	64	57	8	13	29.84	30.03	16	OVC	031			6.00	-RA	BR	55	55	55	100	8	05	29.52	29.70						
19	SCT	NC			10.00	68	56	61	66	7	12	29.86	30.05	19	OVC	038			6.00	-RA	BR	53	53	53	100	6	04	29.59	29.78						
22	BKN	250			10.00	61	51	56	70	6	13	29.88	30.08	22	OVC	017			9.00			53	52	53	98	5	02	29.61	29.80						

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

MAY 2005

RIC

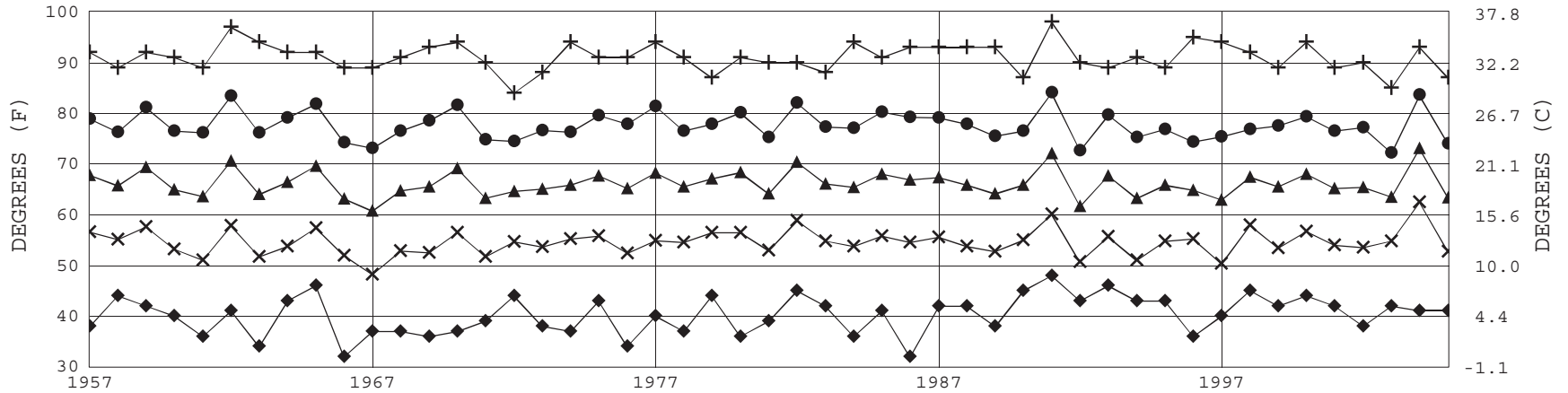
WBAN # 13740

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)					
	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Oktas	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	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0453					MAY 25					SUNSET: 1919					SUNRISE: 0450					MAY 31					SUNSET: 1924				
01	OVC	004	3.00	-RA BR	53	53	53	100	6	35	29.60	29.79	01	OVC	045	6.00	-RA BR	61	58	59	90	8	07	29.78	29.97				
04	OVC	004	1.50	RA BR	53	53	53	100	5	36	29.59	29.78	04	OVC	070	4.00	-RA BR	60	58	59	93	3	01	29.82	30.01				
07	BKN	025	6.00	BR	53	51	52	93	13	36	29.62	29.81	07	BKN	130	5.00	BR	61	58	59	90	0	00	29.86	30.04				
10	OVC	027	10.00		55	48	51	78	12	34	29.62		10	SCT	NC	10.00		71	59	64	66	9	03	29.90	30.09				
13	OVC	031	10.00	-RA	59	50	54	72	8	35	29.62		13	BKN	250	10.00		75	55	63	50	9	04	29.88	30.07				
16	OVC	020	6.00	-RA BR	55	53	54	92	3	35	29.63		16	SCT	NC	10.00		78	53	63	42	3	VR	29.86	30.05				
19	OVC	032	10.00		55	54	54	94	9	33	29.62		19	SCT	NC	10.00		72	54	61	53	6	10	29.89	30.08				
22	OVC	055	10.00		54	53	54	96	5	32	29.64	29.83	22	SCT	NC	10.00		65	55	59	70	3	11	29.94	30.13				
SUNRISE: 0453					MAY 26					SUNSET: 1920					3-HOURLY OBSERVATION NOTES 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. Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC= No ceiling detected. & = Original observation contained additional weather elements. See page 3 for additional notes.														
01	OVC	035	7.00		56	53	54	90	7	28	29.59	29.78																	
04	FEW	NC	10.00		55	51	53	87	7	29	29.57	29.76																	
07	FEW	NC	10.00		60	51	55	72	10	30	29.59	29.78																	
10	FEW	NC	10.00		70	52	60	53	14	36	29.60	29.79																	
13	SCT	NC	10.00		75	50	61	42	16	31	29.59	29.78																	
16	SCT	NC	10.00		80	52	63	38	15	30	29.57	29.76																	
19	SCT	NC	10.00		77	51	62	40	6	28	29.60	29.79																	
22	FEW	NC	10.00		69	54	60	59	5	26	29.64	29.83																	
SUNRISE: 0452					MAY 27					SUNSET: 1921																			
01	SCT	NC	10.00		59	54	56	83	0	00	29.65	29.84																	
04	SCT	NC	10.00		61	52	56	72	0	00	29.66	29.85																	
07	FEW	NC	10.00		68	53	59	59	6	29	29.70	29.89																	
10	FEW	NC	10.00		79	51	63	38	8	29	29.71	29.90																	
13	BKN	250	10.00		81	51	63	35	10	24	29.68	29.87																	
16	BKN	100	10.00		82	56	66	41	12	26	29.67	29.85																	
19	FEW	NC	10.00		78	56	65	47	9	24	29.68	29.86																	
22	SCT	NC	10.00		71	57	63	61	6	24	29.71	29.90																	
SUNRISE: 0452					MAY 28					SUNSET: 1921																			
01	BKN	120	10.00		67	57	61	71	0	00	29.70	29.89																	
04	BKN	120	8.00		60	57	58	90	7	17	29.70	29.89																	
07	BKN	150	6.00	HZ	66	59	62	78	0	00	29.70	29.89																	
10	OVC	200	10.00	-RA	69	57	62	66	0	00	29.70	29.89																	
13	OVC	150	10.00		73	53	61	50	10	25	29.66	29.85																	
16	SCT	NC	10.00		79	52	63	39	18	26	29.64	29.83																	
19	SCT	NC	10.00		73	51	60	46	5	32	29.66	29.85																	
22	FEW	NC	10.00		62	54	58	75	0	00	29.71	29.90																	
SUNRISE: 0451					MAY 29					SUNSET: 1922																			
01	CLR	NC	10.00		58	54	56	87	0	00	29.72	29.91																	
04	BKN	250	10.00		55	52	53	90	0	00	29.73	29.92																	
07	SCT	NC	10.00		62	52	56	70	5	26	29.79	29.98																	
10	BKN	250	10.00		76	47	60	36	6	VR	29.77	29.96																	
13	OVC	250	10.00		80	44	60	28	13	26	29.75	29.93																	
16	OVC	250	10.00		79	46	60	31	13	25	29.72	29.91																	
19	OVC	200	10.00		75	50	61	42	9	24	29.73	29.92																	
22	OVC	200	10.00		69	52	59	55	0	00	29.76	29.95																	
SUNRISE: 0451					MAY 30					SUNSET: 1923																			
01	OVC	200	10.00		61	54	57	78	3	36	29.75	29.94																	
04	OVC	200	10.00		58	52	55	81	6	03	29.77	29.96																	
07	BKN	250	10.00		66	54	59	65	6	04	29.81	30.00																	
10	BKN	250	10.00		76	47	60	36	3	04	29.82	30.01																	
13	BKN	250	10.00		81	48	62	32	6	34	29.77	29.96																	
16	SCT	NC	10.00		80	52	63	38	8	20	29.74	29.93																	
19	BKN	080	10.00		74	56	63	54	7	13	29.73	29.92																	
22	OVC	045	10.00	-RA	67	60	63	79	9	32	29.78	29.97																	

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)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			58	50	54	78	29.79	29.98	8.29	5	1	28
02			57	51	54	81	29.78	29.97	8.19	5	1	35
03			56	50	53	82	29.78	29.97	7.92	5	1	34
04			55	50	52	83	29.79	29.98	7.98	5	2	35
05			55	50	52	84	29.80	29.99	7.92	5	2	1
06			55	50	53	83	29.81	30.00	7.68	5	2	35
07			59	50	54	75	29.82	30.01	8.16	7	3	36
08			62	50	56	68	29.83	30.02	8.89	9	3	35
09			65	49	56	60	29.83	30.02	9.23	9	3	34
10			67	49	57	56	29.82	30.01	9.48	9	4	36
11			69	49	58	53	29.82	30.01	9.58	8	4	33
12			70	49	58	49	29.81	30.00	9.77	9	3	31
13			71	48	58	47	29.79	29.99	9.68	8	3	31
14			71	49	59	47	29.78	29.98	9.55	9	2	32
15			71	48	59	47	29.77	29.96	9.35	9	1	31
16			71	49	59	50	29.77	29.96	8.94	10	3	31
17			71	49	59	50	29.77	29.96	9.26	10	2	33
18			69	49	58	53	29.77	29.97	9.29	9	1	35
19			67	50	57	59	29.78	29.98	8.97	8	1	2
20			63	51	56	66	29.79	29.99	9.16	6	2	8
21			61	51	56	70	29.81	30.00	9.06	6	2	10
22			60	51	55	74	29.81	30.00	9.06	6	1	6
23			59	51	55	77	29.81	30.00	8.90	5	1	4
24			58	51	54	78	29.81	30.00	8.55	5	0	0

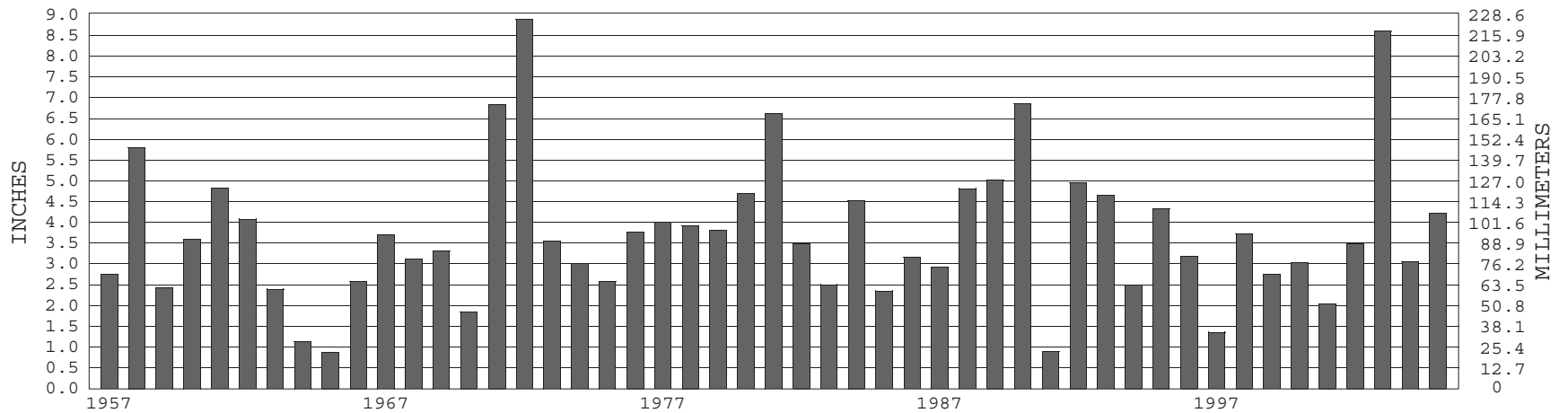
RICHMOND, VA MAY TEMPERATURES



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

Long-Term (1957-2005) Mean: 66.1 1971-2000 Normal: 65.4

RICHMOND, VA MAY PRECIPITATION



Long-Term (1957-2005) Mean Monthly Total: 3.72

1971-2000 Normal: 3.96



MAY 2005

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

NCDC now offers an annual online subscription for the **Edited Local Climatological Data Publication**. When you purchase this subscription service, you will have **immediate online access** to all previous publications back to July 1996 and all publications thereafter until the expiration of the subscription. Your subscription is valid for one year after purchase. **The total cost is \$29 for online delivery (including back issues) compared to \$34 for offline delivery.** To order this and other subscriptions online with your credit card, go to: www.ncdc.noaa.gov and choose subscriptions.

We welcome your questions or comments, please contact us at
Toll Free Number (866) 742–3322 (voice)
Fax Number :(304) 726–4409
TDD : 828–271–4010
or Email : ncdc.info@noaa.gov
Local Climatological Data is available at www.ncdc.noaa.gov

For address correction, please return a photocopy of this page to Subscription Services indicating changes

NCDC Subscription Services Center
310 State Route 956 Building 300
Rocket Center, WV 26726

OFFICIAL BUSINESS. PENALTY FOR PRIVATE USE \$300

FIRST CLASS
POSTAGE AND FEES PAID
NOAA
PERMIT G-19