



NOVEMBER 2004

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

NOVEMBER 2004
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	76	51	64	11	48	55	1	0	HZ			0.0	0.00	29.94	30.13	2.5	12	3.3	12	15	8	14	01				
02	84*	55	70*	17	59	63	0	5				0.0	0.00	29.87	30.06	8.2	21	9.4	26	22	21	21	02				
03	74	53	64	12	52	58	1	0				0.0	0.00	29.91	30.10	6.4	36	10.2	26	36	21	02	03				
04	56	50	53	1	47	50	12	0	RA FG BR			0.0	0.87	29.73	29.92	1.3	25	5.6	20	30	13	25	04				
05	62	41	52	0	32	44	13	0				0.0	0.00	29.72	29.90	7.1	29	8.1	24	32	20	29	05				
06	66	36	51	-1	35	43	14	0				0.0	0.00	29.81	30.00	6.6	21	6.9	21	23	17	23	06				
07	73	41	57	6	41	49	8	0				0.0	0.00	29.73	29.92	6.3	20	7.0	18	18	16	19	07				
08	60	38	49	-2	33	43	16	0				0.0	0.00	29.99	30.18	9.3	01	9.9	30	36	25	01	08				
09	52	34	43	-8	26	36	22	0				0.0	0.00	30.28	30.48	6.6	01	6.9	25	01	20	01	09				
10	55	31	43	-8	32	38	22	0				0.0	0.00	30.36	30.56	3.7	16	3.9	14	18	12	17	10				
11	64	38	51	1	40	46	14	0	RA			0.0	T	30.13	30.32	5.0	21	5.4	18	24	15	22	11				
12	55	47	51	1	50	51	14	0	RA BR			0.0	1.51	29.95	30.14	7.1	02	8.0	26	01	21	01	12				
13	53	38	46	-4	33	40	19	0	RA BR			0.0	0.03	30.22	30.41	14.7	01	14.8	31	36	24	01	13				
14	50	33	42	-7	24	35	23	0				0.0	0.00	30.52	30.71	8.1	01	8.3	24	01	17	01	14				
15	62	34	48	-1	28	39	17	0				0.0	0.00	30.39	30.59	2.9	34	3.1	15	33	13	32	15				
16	62	37	50	1	33	42	15	0				0.0	0.00	30.22	30.41	0.2	34	.6	9	03	8	03	16				
17	64	39	52	3	39	45	13	0				0.0	0.00	30.14	30.33	2.4	02	2.7	16	01	14	01	17				
18	68	48	58	9	47	52	7	0	RA			0.0	T	30.03	30.22	3.6	18	4.0	15	19	13	19	18				
19	67	47	57	8	51	53	8	0	RA BR			0.0	T	29.96	30.15	0.7	05	1.6	10	04	9	05	19				
20	65	52	59	11	56	57	6	0	RA BR			0.0	0.01	29.93	30.12	3.1	18	4.5	13	23	10	22	20				
21	68	53	61	14	54	56	4	0	BR			0.0	0.00	30.03	30.22	3.5	01	4.2	15	02	13	01	21				
22	64	54	59	12	54	55	6	0	RA BR			0.0	0.08	29.96	30.14	4.1	18	4.3	16	20	14	20	22				
23	58	55	57	10	55	55	8	0	RA DZ FG+ BR			0.0	0.08	29.84	30.03	4.0	07	4.2	12	11	9	10	23				
24	69	56	63	16	60	61	2	0	RA DZ FG+ BR			0.0	0.18	29.61	29.80	8.9	16	9.9	26	17	22	19	24				
25	68	40	54	8	44	51	11	0	RA BR			0.0	0.19	29.43	29.61	10.9	27	15.6	40*	30	31*	29	25				
26	48	31	40*	-6	21	33	25	0				0.0	0.00	30.03	30.22	1.4	35	4.4	17	30	14	31	26				
27	57	29*	43	-3	40	43	22	0	RA BR			0.0	0.13	29.99	30.19	4.1	10	5.3	21	14	17	12	27				
28	64	41	53	8	45	50	12	0	RA BR			0.0	0.13	29.75	29.94	6.7	31	10.7	26	17	22	30	28				
29	54	35	45	0	32	39	20	0				0.0	0.00	30.11	30.30	3.8	36	4.6	22	01	18	01	29				
30	56	43	50	5	39	45	15	0	RA			0.0	0.06	30.03	30.23	4.4	15	5.2	16	14	14	14	30				
< MONTHLY AVERAGES										TOTALS-->		0.0	3.27	29.99	30.18	0.8	34	6.4	<-- MONTHLY AVERAGES								
2.8				4.3		3.6		█ █		<-----DEPARTURE FROM NORMAL----->										0.21		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3					
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.53 DATE: 12-13				SEA LEVEL PRESSURE				DATE		TIME							
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 0.0 DATE:				MAXIMUM				: 30.80		14 0954							
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH:				MINIMUM				: 29.37		25 0954							
HEATING:		370		-100		554		-169		NUMBER OF DAYS WITH		MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 3		PRECIPITATION ≥ 0.01 INCH : 11											
COOLING:		5		-1		1666		232		MAXIMUM TEMP ≤ 32 : 0		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 6													
										THUNDERSTORMS : 0		HEAVY FOG : 2		SNOWFALL ≥ 1.0 INCH : 0													

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA

NOVEMBER 2004

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	0.02	0.03	0.01	0.01	T	T	0.01	0.05	0.01			04		0.87		
05													05												05		0.00		
06													06												06		0.00		
07													07												07		0.00		
08													08												08		0.00		
09													09												09		0.00		
10													10												10		0.00		
11													11												11		T		
12													12	0.02	0.09	0.16	0.05	0.06	0.21	0.21	0.15	0.14	0.15	0.14	12	0.04	1.51		
13	T	0.01	0.03	0.02									13												13		0.03		
14	0.02	T	T	T									14												14		0.00		
15													15												15		0.00		
16													16												16		0.00		
17													17												17		0.00		
18													18												18		T		
19													19												19		T		
20	T	0.01											20		T	T	T		T	T					20		0.01		
21													21												21		0.00		
22													22												22		0.08		
23													23	T	T	0.01	T	0.03	T	0.02	0.02	T	0.01	0.05	T	23		0.08	
24													24												24		0.18		
25													25												25	0.18	0.19		
26													26												26		0.00		
27													27												27		0.13		
28	0.01	0.02	0.06	0.02	0.01								28												28		0.13		
29													29												29		0.00		
30													30												30	0.04	0.02	0.06	

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.11	.16	.18	.18	.19	.26	.31	.37	.41	.47	.52	.59
Ending Date	25	25	25	25	04	04	04	04	04	04	12	12
Ending Time (Hour/Min)	1014	1014	1018	1018	0955	1005	1009	1016	1046	1046	1945	2017

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 NOVEMBER 2004

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							10.00	10.00	
02							8.00	10.00	
03							10.00	10.00	
04							.13	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							9.00	10.00	
10							8.00	10.00	
11							10.00	10.00	
12							.25	10.00	
13							4.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							6.00	10.00	
20							4.00	10.00	
21							2.00	10.00	
22							2.00	10.00	
23							.13	8.00	
24							.13	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							3.00	10.00	
28							3.00	10.00	
29							10.00	10.00	
30							9.00	10.00	
MONTHLY AVGS							7.00	9.93	
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 3 8 19									

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

NOVEMBER 2004

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: 0635				NOV 01				SUNSET: 1711				SUNRISE: 0641				NOV 07				SUNSET: 1705									
01	FEW	NC			10.00	58	50	54	75	0	00	29.84	30.03	01	CLR	NC			10.00	50	37	44	61	6	23	29.76	29.95		
04	SCT	NC			10.00	56	50	53	81	0	00	29.88	30.07	04	CLR	NC			10.00	43	37	40	80	6	19	29.74	29.93		
07	BKN	250			10.00	54	47	50	77	0	00	29.95	30.14	07	CLR	NC			10.00	43	38	41	82	6	15	29.77	29.96		
10	SCT	NC			10.00	67	43	54	42	5	07	29.99	30.18	10	CLR	NC			10.00	58	41	50	54	3	22	29.79	29.98		
13	CLR	NC			10.00	74	44	58	34	3	VR	29.93	30.12	13	CLR	NC			10.00	70	42	55	37	12	17	29.71	29.90		
16	SCT	NC			10.00	75	47	59	37	3	16	29.92	30.11	16	CLR	NC			10.00	72	43	56	35	13	20	29.67	29.86		
19	FEW	NC			10.00	65	50	57	59	5	12	29.95	30.14	19	CLR	NC			10.00	59	44	51	58	6	20	29.69	29.88		
22	FEW	NC			10.00	59	48	53	67	7	14	29.96	30.15	22	CLR	NC			10.00	60	43	51	53	10	23	29.70	29.89		
SUNRISE: 0636				NOV 02				SUNSET: 1710				SUNRISE: 0642				NOV 08				SUNSET: 1704									
01	BKN	070			10.00	60	48	54	65	7	15	29.94	30.13	01	CLR	NC			10.00	58	42	50	56	5	27	29.69	29.89		
04	CLR	NC			10.00	56	49	52	77	5	12	29.94	30.13	04	CLR	NC			10.00	52	44	48	75	7	34	29.76	29.95		
07	SCT	NC			10.00	56	51	53	84	6	15	29.94	30.13	07	CLR	NC			10.00	53	42	48	66	16	02	29.89	30.08		
10	CLR	NC			10.00	68	59	63	73	5	22	29.94	30.13	10	CLR	NC			10.00	57	33	46	41	21	01	29.99	30.18		
13	FEW	NC			10.00	81	65	71	58	10	21	29.84	30.03	13	CLR	NC			10.00	58	29	45	33	15	01	30.02	30.21		
16	FEW	NC			10.00	82	64	70	55	16	21	29.81	29.99	16	OVC	250			10.00	53	23	41	31	13	01	30.06	30.25		
19	FEW	NC			10.00	73	65	68	76	14	21	29.80	29.99	19	SCT	NC			10.00	47	25	38	42	5	03	30.12	30.32		
22	BKN	130			10.00	72	66	68	82	14	22	29.78	29.96	22	CLR	NC			10.00	39	31	36	73	3	36	30.17	30.36		
SUNRISE: 0637				NOV 03				SUNSET: 1709				SUNRISE: 0643				NOV 09				SUNSET: 1703									
01	BKN	150			10.00	73	67	69	81	13	23	29.74	29.93	01	CLR	NC			10.00	37	28	34	70	5	36	30.18	30.37		
04	BKN	150			10.00	72	67	69	84	7	27	29.76	29.95	04	CLR	NC			10.00	35	27	32	72	8	36	30.21	30.40		
07	BKN	095			10.00	72	67	69	84	7	30	29.82	30.01	07	CLR	NC			10.00	37	24	32	60	7	34	30.27	30.47		
10	BKN	250			10.00	69	50	58	51	15	36	29.93	30.11	10	SCT	NC			10.00	48	25	39	41	12	01	30.32	30.51		
13	OVC	250			10.00	69	45	56	42	15	04	29.93	30.12	13	FEW	NC			10.00	52	26	41	37	9	35	30.27	30.47		
16	CLR	NC			10.00	66	43	54	43	10	04	29.97	30.16	16	SCT	NC			10.00	51	24	40	35	12	01	30.27	30.47		
19	CLR	NC			10.00	57	43	50	60	8	02	30.02	30.21	19	CLR	NC			10.00	44	24	36	45	0	00	30.31	30.51		
22	CLR	NC			10.00	55	42	49	62	0	00	30.03	30.22	22	CLR	NC			10.00	37	28	34	70	3	01	30.36	30.55		
SUNRISE: 0638				NOV 04				SUNSET: 1708				SUNRISE: 0644				NOV 10				SUNSET: 1702									
01	OVC	065			10.00	55	45	50	69	5	01	30.01	30.21	01	CLR	NC			10.00	34	30	32	85	0	00	30.36	30.55		
04	OVC	065			10.00	54	43	49	67	7	08	29.94	30.13	04	CLR	NC			10.00	34	29	32	82	0	00	30.37	30.57		
07	OVC	048			10.00	52	47	49	83	0	00	29.90	30.09	07	CLR	NC			10.00	32	29	31	88	0	00	30.41	30.60		
10	OVC	020			1.75	51	50	51	96	7	08	29.83	30.02	10	CLR	NC			10.00	48	31	41	52	8	14	30.43	30.63		
13	OVC	004			1.75	53	52	52	96	0	00	29.71	29.90	13	FEW	NC			10.00	53	29	43	40	0	00	30.37	30.57		
16	OVC	002			1.00	55	55	55	100	7	18	29.55	29.75	16	OVC	250			10.00	54	29	43	38	5	16	30.32	30.52		
19	OVC	005			1.75	53	52	52	96	14	30	29.54	29.72	19	OVC	250			10.00	46	34	41	63	8	15	30.33	30.53		
22	CLR	NC			1.75	53	51	52	93	12	26	29.52	29.70	22	BKN	250			10.00	44	38	41	79	7	16	30.32	30.52		
SUNRISE: 0639				NOV 05				SUNSET: 1707				SUNRISE: 0645				NOV 11				SUNSET: 1701									
01	CLR	NC			10.00	53	32	44	45	12	27	29.53	29.72	01	OVC	200			10.00	42	38	40	85	5	17	30.27	30.46		
04	CLR	NC			10.00	50	33	43	52	7	29	29.57	29.76	04	CLR	NC			10.00	41	36	39	82	5	20	30.22	30.42		
07	CLR	NC			10.00	50	32	42	50	8	31	29.68	29.87	07	BKN	250			10.00	39	36	38	89	0	00	30.19	30.39		
10	CLR	NC			10.00	56	31	45	39	14	30	29.74	29.93	10	OVC	250			10.00	53	35	45	51	10	20	30.18	30.38		
13	FEW	NC			10.00	60	30	47	32	12	28	29.72	29.91	13	OVC	200			10.00	60	38	49	44	10	23	30.09	30.28		
16	CLR	NC			10.00	61	27	46	27	7	29	29.73	29.92	16	OVC	250			10.00	62	39	51	43	6	24	30.05	30.24		
19	CLR	NC			10.00	52	34	44	50	0	00	29.78	29.98	19	OVC	250			10.00	53	44	49	72	3	13	30.05	30.25		
22	CLR	NC			10.00	46	36	42	68	5	36	29.83	30.02	22	OVC	037			10.00	55	46	50	72	0	00	30.04	30.23		
SUNRISE: 0640				NOV 06				SUNSET: 1706				SUNRISE: 0646				NOV 12				SUNSET: 1701									
01	CLR	NC			10.00	41	36	39	82	0	00	29.85	30.04	01	OVC	030			10.00	-RA	54	48	51	80	0	00	30.01	30.20	
04	CLR	NC			10.00	41	34	38	76	0	00	29.86	30.05	04	OVC	007			5.00	-RA BR	51	51	51	100	0	00	29.97	30.16	
07	SCT	NC			10.00	38	32	36	79	3	20	29.87	30.06	07	OVC	002			1.50	BR	52	51	52	97	5	05	29.95	30.15	
10	SCT	NC			10.00	54	37	46	53	6	21	29.87	30.06	10	OVC	002			1.00	-RA BR	53	53	53	100	7	01	29.97	30.16	
13	CLR	NC			10.00	64	32	49	30	16	21	29.77	29.96	13	OVC	004			6.00	-RA BR	52	51	52	97	7	05	29.93	30.12	
16	CLR	NC			10.00	65	34	50	32	10	22	29.73	29.92	16	OVC	005			6.00	-RA BR	51	50	51	96	12	03	29.91	30.10	
19	CLR	NC			10.00	52	37	45	57	8	19	29.75	29.95	19	OVC	005			6.00	RA BR	51	50	51	96	12	02	29.90	30.09	
22	CLR	NC			10.00	49	37	44	64	8	21	29.77	29.96	22	OVC	007			7.00	RA	50	49	49	96	13	36	29.94	30.13	

OBSERVATIONS AT 3-HOURLY INTERVALS

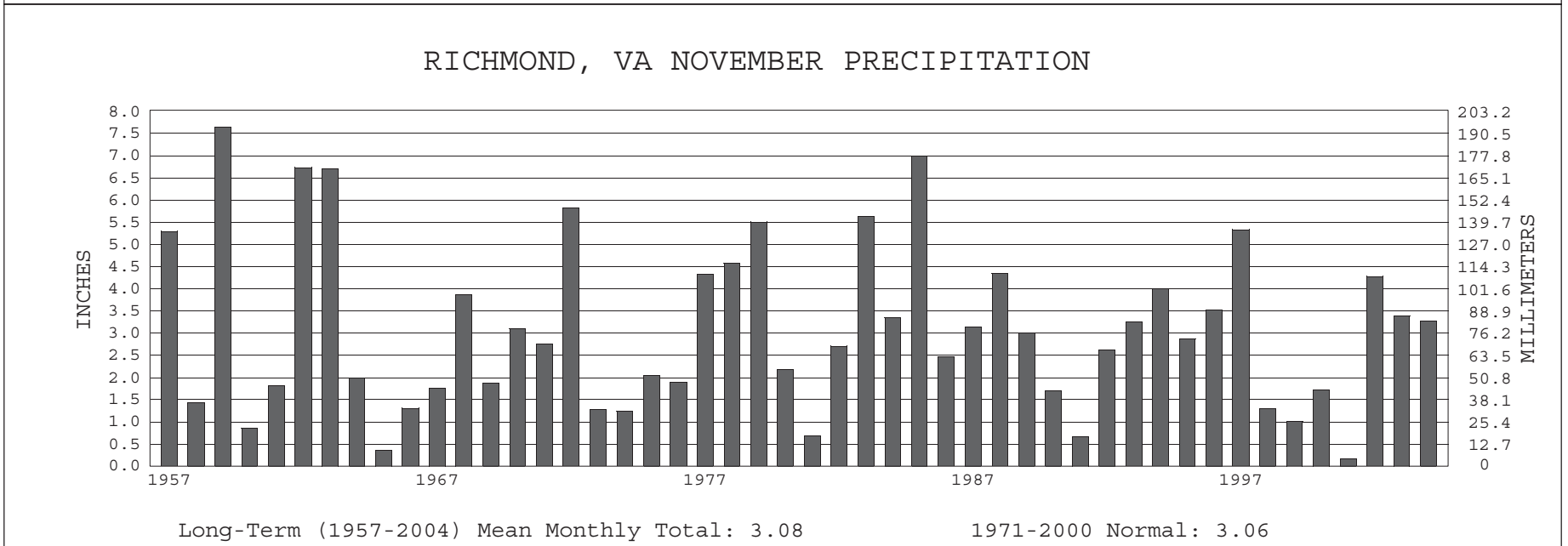
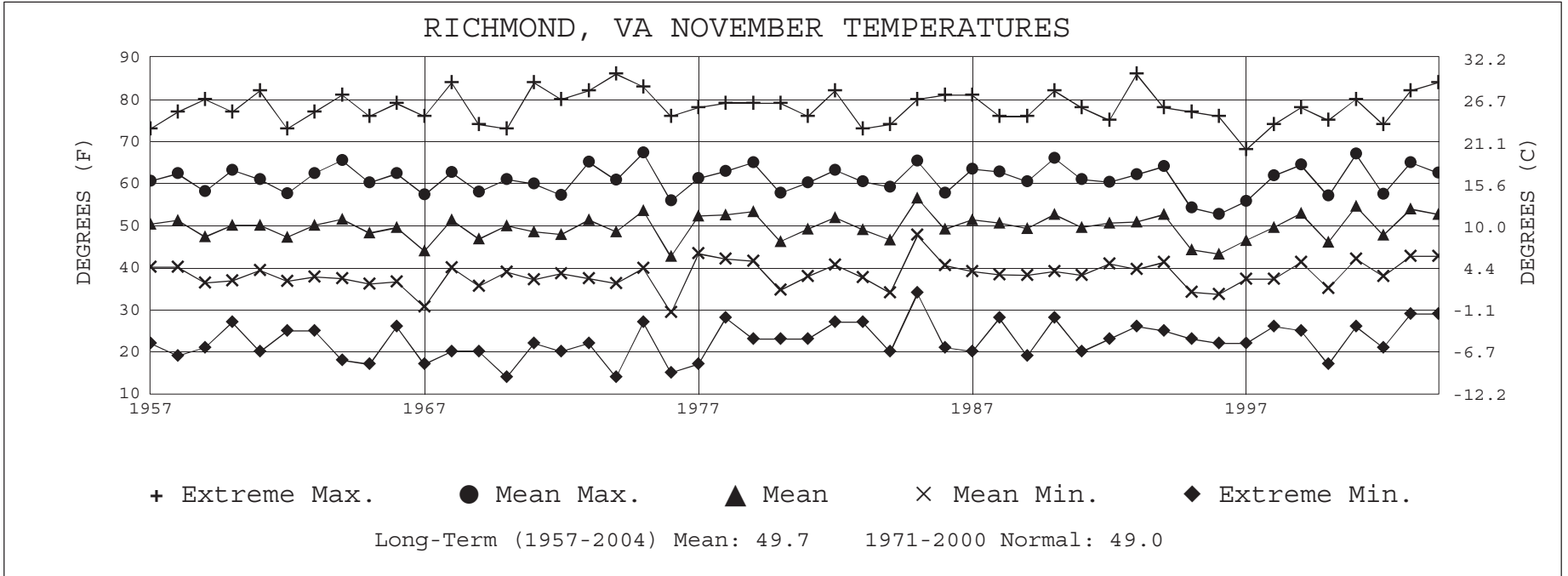
RICHMOND, VA

NOVEMBER 2004

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: 0647				NOV 13				SUNSET: 1660				SUNRISE: 0654				NOV 19				SUNSET: 1656									
01	OVC	007		5.00	-RA BR	46	43	45	89	18	01	29.97	30.16	01	SCT	NC		10.00	53	48	50	83	5	21	29.97	30.16			
04	OVC	008		6.00	-RA BR	44	42	43	93	15	01	30.03	30.22	04	SCT	NC		10.00	49	47	48	93	0	00	29.95	30.14			
07	OVC	007		7.00		45	41	43	86	21	02	30.11	30.31	07	OVC	060		10.00	49	47	48	93	0	00	29.97	30.16			
10	OVC	013		10.00		44	39	42	83	15	01	30.21	30.41	10	OVC	050		7.00	57	52	54	83	0	00	29.99	30.19			
13	SCT	NC		10.00		51	37	45	59	18	02	30.21	30.41	13	OVC	150		10.00	65	52	58	63	0	00	29.94	30.14			
16	CLR	NC		10.00		52	23	40	32	13	02	30.26	30.45	16	OVC	055		10.00	64	52	57	65	9	04	29.94	30.13			
19	CLR	NC		10.00		42	24	35	49	8	36	30.34	30.54	19	BKN	120		7.00	56	55	55	97	0	00	29.95	30.14			
22	CLR	NC		10.00		39	24	33	55	9	01	30.41	30.60	22	BKN	075		8.00	56	53	54	90	0	00	29.95	30.14			
SUNRISE: 0648				NOV 14				SUNSET: 1659				SUNRISE: 0655				NOV 20				SUNSET: 1655									
01	CLR	NC		10.00		38	22	32	53	14	02	30.45	30.65	01	OVC	045		7.00	-RA	57	53	55	87	0	00	29.94	30.14		
04	CLR	NC		10.00		35	22	30	59	9	36	30.48	30.68	04	FEW	NC		6.00	BR	52	51	52	97	5	12	29.93	30.12		
07	CLR	NC		10.00		33	22	29	64	10	36	30.53	30.73	07	OVC	045		6.00	BR	54	52	53	93	5	16	29.94	30.13		
10	CLR	NC		10.00		42	19	34	40	13	01	30.60	30.80	10	OVC	110		7.00		61	54	57	78	7	22	29.94	30.13		
13	CLR	NC		10.00		49	22	38	35	14	01	30.54	30.74	13	OVC	032		10.00		65	56	60	73	5	21	29.89	30.08		
16	CLR	NC		10.00		50	24	40	36	5	34	30.51	30.71	16	OVC	060		10.00		62	59	60	90	7	16	29.87	30.07		
19	CLR	NC		10.00		42	30	37	62	0	00	30.51	30.70	19	OVC	047		5.00	BR	59	59	59	100	5	18	29.91	30.11		
22	CLR	NC		10.00		37	30	34	76	5	32	30.49	30.68	22	OVC	014		5.00	BR	59	57	58	93	0	00	29.95	30.14		
SUNRISE: 0649				NOV 15				SUNSET: 1658				SUNRISE: 0656				NOV 21				SUNSET: 1655									
01	CLR	NC		10.00		35	29	33	78	0	00	30.47	30.67	01	OVC	005		4.00	BR	60	58	59	93	8	36	29.96	30.15		
04	CLR	NC		10.00		35	28	32	76	0	00	30.45	30.64	04	OVC	005		3.00	BR	57	56	56	96	8	02	29.98	30.17		
07	BKN	250		10.00		35	27	32	72	0	00	30.46	30.65	07	OVC	006		2.50	BR	53	52	52	96	6	01	30.03	30.22		
10	FEW	NC		10.00		50	29	41	44	9	01	30.44	30.64	10	BKN	200		8.00		61	54	57	78	5	35	30.08	30.28		
13	FEW	NC		10.00		59	21	44	23	8	34	30.38	30.58	13	BKN	075		10.00		67	53	59	61	3	VR	30.04	30.24		
16	BKN	250		10.00		58	24	44	27	7	34	30.35	30.55	16	OVC	200		10.00		65	53	58	66	3	01	30.03	30.22		
19	OVC	200		10.00		47	31	40	54	0	00	30.32	30.52	19	OVC	200		10.00		58	52	55	81	0	00	30.05	30.24		
22	BKN	250		10.00		42	33	38	71	0	00	30.31	30.51	22	OVC	080		10.00		57	51	54	81	3	15	30.04	30.23		
SUNRISE: 0650				NOV 16				SUNSET: 1658				SUNRISE: 0657				NOV 22				SUNSET: 1654									
01	OVC	250		10.00		43	34	39	71	0	00	30.30	30.49	01	OVC	048		8.00		54	52	53	93	3	19	30.02	30.21		
04	OVC	250		10.00		38	35	37	89	0	00	30.26	30.45	04	OVC	049		6.00	BR	55	52	53	90	0	00	29.99	30.19		
07	BKN	250		10.00		38	35	37	89	0	00	30.26	30.46	07	OVC	041		2.50	BR	54	53	53	97	3	15	30.01	30.20		
10	OVC	250		10.00		55	36	46	49	0	00	30.27	30.46	10	OVC	045		5.00	BR	57	53	55	87	7	19	30.03	30.22		
13	BKN	250		10.00		60	29	46	31	3	VR	30.21	30.40	13	BKN	045		9.00		62	52	57	70	10	18	29.93	30.12		
16	FEW	NC		10.00		60	29	46	31	6	28	30.17	30.36	16	OVC	022		7.00	-RA	61	54	57	78	7	20	29.90	30.09		
19	CLR	NC		10.00		48	32	41	54	0	00	30.16	30.36	19	OVC	040		4.00	BR	57	56	56	96	5	16	29.90	30.09		
22	FEW	NC		10.00		44	36	41	73	0	00	30.16	30.35	22	OVC	021		2.00	BR	56	54	55	93	0	00	29.89	30.08		
SUNRISE: 0652				NOV 17				SUNSET: 1657				SUNRISE: 0658				NOV 23				SUNSET: 1654									
01	CLR	NC		10.00		42	38	40	85	0	00	30.14	30.33	01	OVC	013		2.00	BR	56	55	55	97	0	00	29.86	30.06		
04	CLR	NC		10.00		39	36	38	89	0	00	30.14	30.33	04	OVC	009		2.00	BR	56	54	55	93	5	08	29.83	30.03		
07	SCT	NC		10.00		42	36	39	79	8	01	30.16	30.36	07	OVC	004		2.00	BR	55	54	54	96	6	04	29.85	30.04		
10	SCT	NC		10.00		57	38	48	49	12	02	30.19	30.38	10	OVC	004		2.00	-RA BR	56	55	55	97	5	05	29.87	30.07		
13	CLR	NC		10.00		62	38	50	41	0	00	30.13	30.33	13	OVC	024		7.00		58	54	56	87	5	10	29.82	30.01		
16	FEW	NC		10.00		62	39	51	43	3	03	30.12	30.31	16	OVC	008		3.00	-RA BR	56	55	55	97	5	07	29.81	30.00		
19	CLR	NC		10.00		50	40	45	68	0	00	30.13	30.32	19	OVC	003		2.00	-DZ BR	56	55	55	97	5	08	29.82	30.02		
22	SCT	NC		10.00		44	38	41	79	0	00	30.12	30.32	22	OVC	001		0.75	BR	56	55	55	97	0	00	29.83	30.03		
SUNRISE: 0653				NOV 18				SUNSET: 1656				SUNRISE: 0659				NOV 24				SUNSET: 1653									
01	OVC	060		10.00		49	44	47	83	0	00	30.09	30.29	01	VV	001		0.13	FG	56	56	56	100	0	00	29.79	29.98		
04	OVC	055		10.00		50	45	48	83	0	00	30.08	30.27	04	OVC	001		1.50	BR	57	56	56	96	5	12	29.77	29.96		
07	OVC	046		10.00		50	44	47	80	0	00	30.09	30.28	07	OVC	001		1.00	-DZ BR	57	57	57	100	7	13	29.76	29.95		
10	OVC	044		10.00		56	47	51	72	8	20	30.07	30.27	10	OVC	002		0.50	BR	59	59	59	100	13	14	29.73	29.92		
13	CLR	NC		10.00		66	48	56	52	8	23	29.99	30.18	13	OVC	003		6.00	BR	62	60	61	93	12	15	29.59	29.78		
16	BKN	055		10.00		67	51	58	57	3	19	29.96	30.16	16	OVC	016		5.00	BR	65	63	64	93	9	17	29.54	29.72		
19	BKN	060		10.00		58	51	54	78	0	00	29.99	30.18	19	OVC	080		8.00		67	64	65	91	13	16	29.46	29.64		
22	SCT	NC		10.00		55	49	52	80	7	15	29.98	30.17	22	OVC	017		10.00		69	64	66	84	17	18	29.38	29.56		





NOVEMBER 2004

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