



NOVEMBER 2007 LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

RICHMOND, VA
RICHMOND INTERNATIONAL AIRPORT (KRIC)
 Lat:37° 30'N Long: 77° 19'W Elev (Ground) 163 Feet
 Time Zone : EASTERN WBAN: 13740 ISSN#: 0198-537X



**NOVEMBER 2007
RICHMOND, VA**

Date 1	Temperature °F						Deg Days BASE 65°		WEATHER 10	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								Date 24																						
	MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEP FROM NORMAL 5	AVERAGE DEW PT 6	AVERAGE WET BULB 7	HEATING 8	COOLING 9		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM																											
																			5-SEC		2-MIN																									
																			SPEED 20	DIR 21	SPEED 22	DIR 23																								
01	75	51	63	10	49	55	2	0	MIFG BR		0.0	0.00	29.93	30.12	3.5	34	8.3	29	03	22	02	01																								
02	62	45	54	1	36	45	11	0			0.0	0.00	30.03	30.21	13.0	03	13.4	29	03	23	04	02																								
03	65	40	53	1	34	44	12	0			0.0	0.00	29.77	29.94	9.6	35	10.0	28	36	22	36	03																								
04	64	34	49	-3	32	41	16	0			0.0	0.00	29.78	29.98	2.3	28	2.7	24	26	14	29	04																								
05	64	38	51	-1	33	43	14	0			0.0	0.00	29.82	30.00	3.3	22	5.3	23	22	17	21	05																								
06	59	41	50	-2	32	44	15	0	RA DZ BR		0.0	0.05	29.71	29.93	6.3	28	10.2	26	34	21	35	06																								
07	55	31	43	-8	25	36	22	0			0.0	0.00	29.98	30.19	4.7	34	5.5	30	02	18	36	07																								
08	51	30	41	-10	25	34	24	0			0.0	0.00	30.03	30.23	1.8	04	2.4	12	02	10	03	08																								
09	54	34	44	-7	33	40	21	0	RA		0.0	0.02	29.90	30.08	2.7	15	3.4	17	18	12	18	09																								
10	50	36	43	-8	37	41	22	0	RA BR		0.0	0.05	29.88	30.10	7.4	01	9.2	21	36	16	01	10																								
11	55	31	43	-7	33	39	22	0	BR		0.0	0.00	30.12	30.33	1.3	36	3.5	14	34	10	19	11																								
12	65	44	55	5	40	47	10	0	RA		0.0	T	30.06	30.23	6.7	21	7.3	17	21	14	23	12																								
13	70	55	63	13	51	56	2	0	RA		0.0	0.01	29.83	30.02	3.8	26	5.8	15	25	12	27	13																								
14	76	50	63*	14	52	57	2	0	FG BR		0.0	0.00	29.72	29.89	5.9	21	6.3	20	23	16	23	14																								
15	64	41	53	4	43	48	12	0	RA BR		0.0	0.62	29.51	29.70	6.1	29	12.0	30	35	25	35	15																								
16	50	33	42	-7	23	35	23	0			0.0	0.00	29.74	29.96	10.4	31	10.7	32*	32	25	32	16																								
17	55	32	44	-5	28	37	21	0			0.0	0.00	29.91	30.11	4.8	19	5.2	22	20	16	20	17																								
18	63	34	49	0	34	41	16	0			0.0	0.00	29.97	30.19	1.3	05	2.2	10	11	8	11	18																								
19	52	42	47	-2	41	44	18	0	BR HZ		0.0	0.00	30.11	30.32	5.3	03	5.6	17	02	14	02	19																								
20	70	45	58	10	46	51	7	0	BR HZ		0.0	0.00	29.99	30.17	5.3	24	5.6	21	26	16	25	20																								
21	76*	46	61	14	49	54	4	0	BR HZ		0.0	0.00	29.86	30.04	6.1	22	6.5	18	23	14	22	21																								
22	75	48	62	15	50	56	3	0	RA		0.0	0.01	29.68	29.88	8.1	27	14.6	31	01	25*	01	22																								
23	49	29	39	-8	22	34	26	0			0.0	0.00	30.01	30.24	8.6	01	8.9	25	36	20	36	23																								
24	46	27*	37*	-10	21	31	28	0			0.0	0.00	30.27	30.46	1.3	04	2.8	14	21	9	05	24																								
25	49	36	43	-3	31	39	22	0	RA		0.0	0.03	30.16	30.35	2.1	19	2.4	14	20	10	21	25																								
26	67	44	56	10	51	53	9	0	RA BR HZ		0.0	0.01	29.90	30.06	7.5	21	8.3	24	20	17	20	26																								
27	66	41	54	8	40	50	11	0			0.0	0.00	29.89	30.10	8.2	30	9.7	28	33	22	33	27																								
28	53	32	43	-2	25	36	22	0			0.0	0.00	30.21	30.41	2.2	08	4.6	23	05	17	05	28																								
29	62	30	46	1	31	40	19	0			0.0	0.00	29.98	30.17	4.8	26	5.8	20	28	15	26	29																								
30	54	32	43	-2	13	32	22	0			0.0	0.00	30.11	30.31	1.6	03	4.1	16	02	13	03	30																								
										60.5		38.4		49.5		☼	35.3		43.4		15.3		0.0		< MONTHLY AVERAGES TOTALS >				0.0		0.80		29.93		30.12		2.1		30		6.7		< MONTHLY AVERAGES			
										0.8		0.0		0.5			<----- DEPARTURE FROM NORMAL ----->										-2.26		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																	
DEGREE DAYS										GREATEST 24-HR PRECIPITATION : 0.62 DATE : 15										SEA LEVEL PRESSURE				DATE TIME																						
MONTHLY										GREATEST 24-HR SNOWFALL : 0.0 DATE :										MAXIMUM : 30.56				24 1100																						
TOTAL DEPARTURE										GREATEST SNOW DEPTH : DATE :										MINIMUM : 29.57				15 0826																						
SEASON TO DATE										NUMBER OF -> DAYS WITH										MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 9				PRECIPITATION >= 0.01 INCH : 8																		
HEATING : 458 -12 550 -173										MAXIMUM TEMP <= 32 : 0										MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH : 1																						
COOLING : 0 -6 1844 410										THUNDERSTORMS : 0										HEAVY FOG : 0				SNOWFALL >= 1.0 INCH : 0																						

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
NOVEMBER 2007

WBAN # 13740

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.
	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													01												01	0.00	0.00	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04													04												04	0.00	0.00	
05													05												05	0.00	0.00	
06				T	0.01	T	T			0.03	0.01		06											06	0.05	0.05		
07													07											07	0.00	0.00		
08													08											08	0.00	0.00		
09													09							0.01		0.01	T	09	0.02	0.02		
10	0.01	0.01	0.03	T	T	T	T						10											10	0.05	0.05		
11													11											11	0.00	0.00		
12	T		T	T									12											12	T	T		
13								T	0.01				13	T	T	T	T	T						13	0.01	0.01		
14													14											14	0.00	0.00		
15						T	0.01	0.03	0.24	0.09	0.08	0.13	15	0.03	0.01									15	0.62	0.62		
16													16											16	0.00	0.00		
17													17											17	0.00	0.00		
18													18											18	0.00	0.00		
19													19											19	0.00	0.00		
20													20											20	0.00	0.00		
21													21											21	0.00	0.00		
22													22					0.01	T	T		T		22	0.01	0.01		
23													23											23	0.00	0.00		
24													24											24	0.00	0.00		
25										T	T	T	25									T	0.03	25	0.03	0.03		
26	0.01	T	T	T						T	T		26								T	T		26	0.01	0.01		
27													27											27	0.00	0.00		
28													28											28	0.00	0.00		
29													29											29	0.00	0.00		
30													30											30	0.00	0.00		

* Indicates sum of Hourly and Daily disagree.

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	0.10	0.13	0.13	0.14	0.19	0.22	0.24	0.27	0.31	0.34	0.37	0.41
Ending Date	15	15	15	15	15	15	15	15	15	15	15	15
Ending Time (Hr/Min)	0840	0843	0849	0849	0843	0849	0858	0926	0950	0950	1036	1058

Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. 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.

Date and time are not entered for TRACE amounts.

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		
DESCRIPTOR	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	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	GL Glaze
VC In the Vicinity	UP Unkown Precipitation		

Intensity (as indicated on pages 4 to 6):
'+' = Heavy '' = Moderate '-' = Light

RICHMOND, VA NOVEMBER 2007

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:

Station Augmentation-SANDSTON COOP
Lat/Lon:37.54417/-77.27583 Elevation:165
Distance:4 MI Dir:E
Augmented Elements:Temp, Precip, Snow
Equipment:MMTS, SRG, Snowboard

Date	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			Sky Cover	Satellite	Sky Cover	Satellite			
01							6.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							4.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							9.00	10.00	
10							3.00	10.00	
11							3.00	10.00	
12							10.00	10.00	
13							8.00	10.00	
14							0.50	10.00	
15							2.50	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							8.00	10.00	
19							2.50	10.00	
20							2.00	10.00	
21							1.25	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							1.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
MONTHLY AVGS							7.36	10.00	
SUNSHINE (Minutes)									
Total : 0					Possible : 18302				
Percent Possible : 0									
NUMBER OF DAYS WITH : SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
MINIMUM VISIBILITY (MILES)									
<= .25			<= 3.0				>= 7.0		
0			8				20		

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

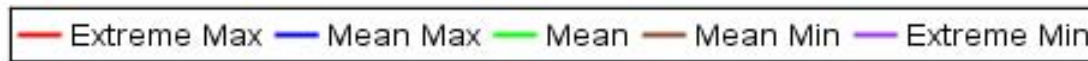
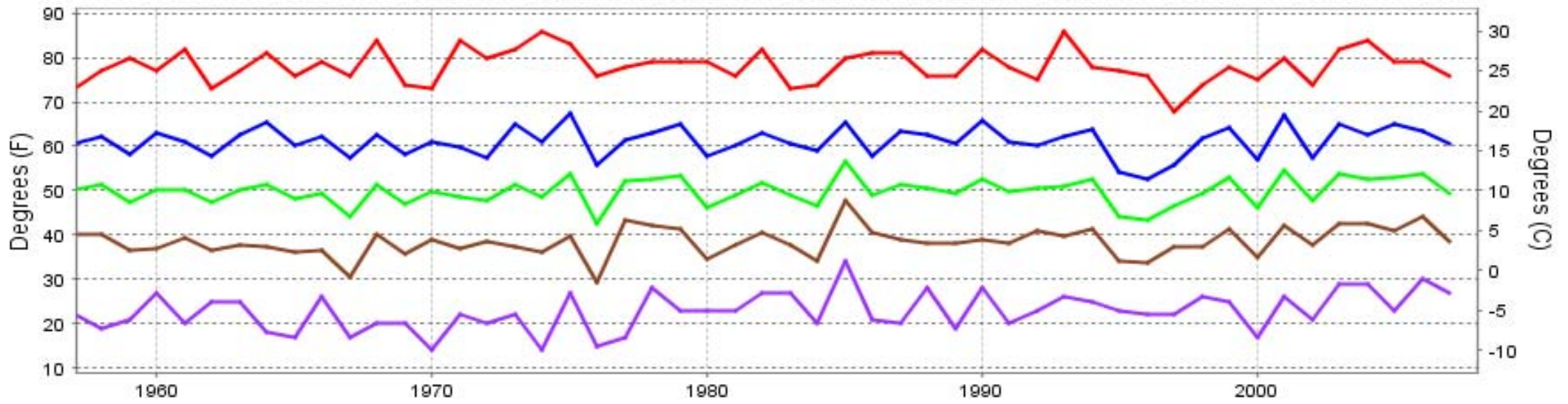
NOVEMBER 2007

KRIC

WBAN # 13740

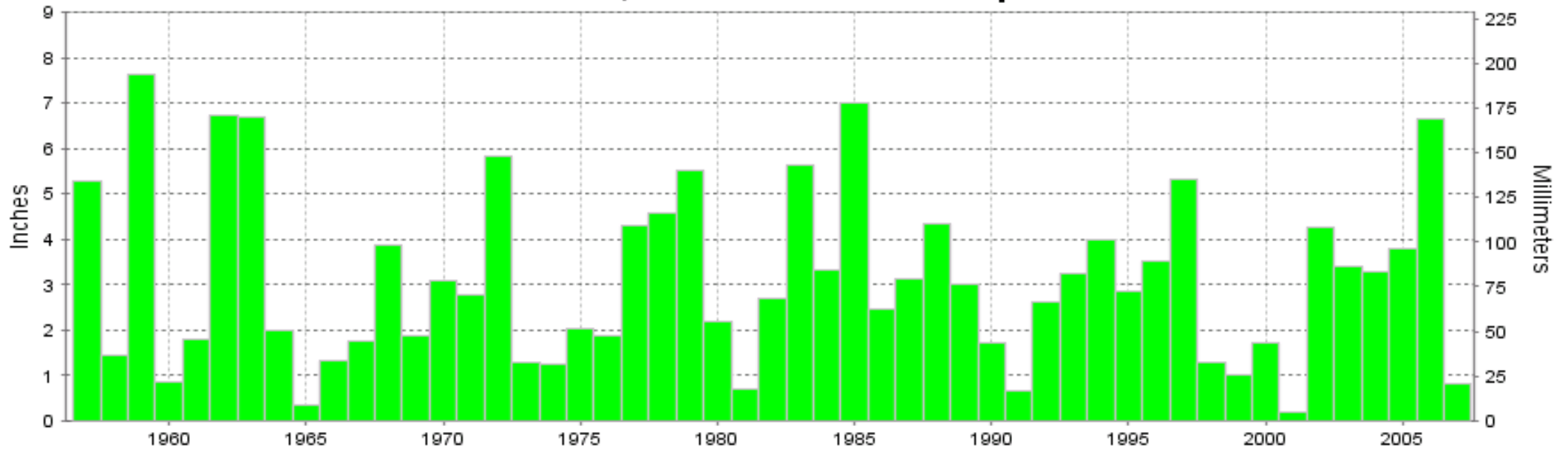
HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)	
			Observation Time (LST)	Eff Cld Amt Oktas		DRY BULB	DEW POINT	WET BULB			STATION	SEA LEVEL				Observation Time (LST)	Eff Cld Amt Oktas		DRY BULB	DEW POINT	WET BULB			STATION	SEA LEVEL
			VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)			STATION	SEA LEVEL				VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)			STATION	SEA LEVEL
SUNRISE: 0634 NOV 01 SUNSET: 1712 01 CLR NC 10.00 54 51 52 90 5 20 29.98 30.18 04 SCT 050 8.00 53 51 52 93 5 21 29.95 30.14 07 BKN 250 8.00 52 50 51 93 5 18 29.93 30.13 10 BKN 250 10.00 70 56 62 61 10 26 29.92 30.11 13 BKN 250 10.00 73 52 61 48 10 31 29.87 30.06 16 FEW 150 10.00 74 48 59 40 9 32 29.86 30.05 19 SCT 075 10.00 62 49 55 63 16 03 29.93 30.12 22 BKN 060 10.00 59 39 49 48 15 03 29.99 30.18													SUNRISE: 0640 NOV 07 SUNSET: 1706 01 CLR NC 10.00 39 23 33 53 7 27 29.92 30.11 04 CLR NC 10.00 37 23 32 57 5 30 29.93 30.13 07 CLR NC 10.00 34 25 31 70 0 00 30.00 30.19 10 CLR NC 10.00 50 26 40 39 10 01 30.03 30.22 13 SCT 060 10.00 54 24 42 31 9 01 29.99 30.19 16 SCT 060 10.00 53 25 41 34 8 35 29.99 30.19 19 FEW 060 10.00 42 27 36 55 5 03 30.03 30.22 22 FEW 065 10.00 37 28 34 70 0 00 30.07 30.26												
SUNRISE: 0635 NOV 02 SUNSET: 1710 01 BKN 070 10.00 55 35 46 47 9 04 30.01 30.21 04 CLR NC 10.00 48 34 42 59 13 02 30.03 30.22 07 FEW 150 10.00 45 35 41 68 9 02 30.07 30.26 10 SCT 150 10.00 56 34 46 44 14 04 30.10 30.29 13 SCT 200 10.00 60 33 48 36 13 08 30.03 30.22 16 BKN 200 10.00 57 38 48 49 17 05 30.00 30.19 19 BKN 200 10.00 53 39 46 59 11 03 29.99 30.19 22 BKN 200 10.00 50 37 44 61 13 02 29.93 30.12													SUNRISE: 0641 NOV 08 SUNSET: 1705 01 CLR NC 10.00 34 25 31 70 5 02 30.05 30.25 04 CLR NC 10.00 31 25 29 78 5 36 30.06 30.25 07 BKN 250 10.00 32 24 29 72 5 01 30.07 30.27 10 OVC 200 10.00 44 27 37 51 7 04 30.09 30.29 13 OVC 250 10.00 48 21 38 34 0 00 30.02 30.22 16 OVC 250 10.00 49 21 38 33 0 00 29.98 30.18 19 BKN 250 10.00 43 28 37 56 5 16 29.99 30.19 22 SCT 250 10.00 37 28 34 70 0 00 30.00 30.19												
SUNRISE: 0636 NOV 03 SUNSET: 1709 01 OVC 200 10.00 51 39 45 64 14 01 29.87 30.06 04 OVC 022 10.00 50 38 44 64 15 01 29.80 29.99 07 OVC 030 10.00 50 38 44 64 16 01 29.80 29.99 10 FEW 024 10.00 55 36 46 49 20 35 29.76 29.95 13 FEW 090 10.00 61 30 47 31 11 34 29.69 29.88 16 FEW 150 10.00 65 25 47 22 9 35 29.67 29.86 19 CLR NC 10.00 47 34 41 61 0 00 29.72 29.91 22 CLR NC 10.00 42 35 39 76 0 00 29.75 29.94													SUNRISE: 0642 NOV 09 SUNSET: 1704 01 OVC 200 10.00 37 31 35 79 0 00 29.98 30.17 04 OVC 200 10.00 39 34 37 82 0 00 29.96 30.15 07 OVC 200 10.00 39 32 36 76 0 00 29.96 30.15 10 OVC 250 10.00 46 34 41 63 3 21 29.96 30.16 13 BKN 100 10.00 52 30 43 43 7 15 29.86 30.06 16 OVC 250 10.00 52 30 42 43 7 16 29.81 30.01 19 OVC 100 10.00 49 32 42 52 7 14 29.81 30.00 22 OVC 075 10.00 46 39 43 77 3 13 29.79 29.98												
SUNRISE: 0637 NOV 04 SUNSET: 1708 01 SCT 200 10.00 39 34 37 82 0 00 29.78 29.97 04 SCT 200 10.00 38 33 36 82 0 00 29.79 29.98 07 FEW 100 10.00 38 33 36 82 0 00 29.81 30.01 10 SCT 250 10.00 58 32 46 37 3 29 29.84 30.03 13 FEW 200 10.00 62 30 47 30 9 25 29.74 29.93 16 FEW 070 10.00 62 26 46 25 9 28 29.73 29.92 19 CLR NC 10.00 49 32 42 52 0 00 29.78 29.97 22 CLR NC 10.00 42 33 38 71 0 00 29.80 29.99													SUNRISE: 0643 NOV 10 SUNSET: 1703 01 OVC 047 10.00 -RA 45 41 43 86 3 15 29.75 29.94 04 OVC 055 4.00 BR 44 42 43 93 7 35 29.75 29.95 07 OVC 110 7.00 -RA 43 40 42 89 9 35 29.80 30.00 10 BKN 080 9.00 48 40 44 74 11 03 29.91 30.10 13 BKN 060 8.00 48 37 43 66 14 02 29.92 30.11 16 FEW 030 10.00 48 35 42 61 10 34 29.95 30.14 19 CLR NC 9.00 40 34 37 79 6 02 30.01 30.20 22 CLR NC 7.00 38 34 36 86 5 02 30.05 30.25												
SUNRISE: 0638 NOV 05 SUNSET: 1707 01 BKN 110 10.00 42 35 39 76 0 00 29.81 30.01 04 BKN 090 10.00 41 35 38 79 0 00 29.81 30.01 07 CLR NC 10.00 39 34 37 82 0 00 29.87 30.06 10 CLR NC 10.00 58 34 47 41 6 33 29.90 30.09 13 CLR NC 10.00 62 28 47 28 3 VR 29.84 30.03 16 CLR NC 10.00 63 28 47 27 10 22 29.79 29.98 19 CLR NC 10.00 51 33 43 50 7 19 29.76 29.96 22 BKN 150 10.00 54 33 45 45 11 20 29.73 29.92													SUNRISE: 0644 NOV 11 SUNSET: 1702 01 CLR NC 6.00 BR 37 33 35 86 5 35 30.07 30.29 04 CLR NC 4.00 BR 34 31 33 89 5 33 30.10 30.29 07 FEW 250 3.00 BR 32 30 31 92 5 35 30.15 30.35 10 CLR NC 10.00 47 35 42 63 6 36 30.19 30.39 13 FEW 250 10.00 52 30 43 43 6 VR 30.14 30.34 16 SCT 250 10.00 53 30 43 41 0 00 30.10 30.30 19 BKN 250 10.00 44 35 40 71 5 14 30.12 30.31 22 OVC 100 10.00 45 35 41 68 9 18 30.12 30.32												
SUNRISE: 0639 NOV 06 SUNSET: 1706 01 SCT 120 10.00 56 33 46 42 15 21 29.64 29.83 04 BKN 100 10.00 53 43 48 69 8 22 29.60 29.79 07 OVC 080 10.00 55 45 50 69 11 24 29.63 29.82 10 OVC 080 10.00 50 47 48 90 5 01 29.71 29.91 13 SCT 043 10.00 58 31 46 36 10 29 29.70 29.89 16 SCT 250 10.00 56 21 42 26 16 34 29.76 29.95 19 CLR NC 10.00 48 18 37 30 5 33 29.85 30.05 22 CLR NC 10.00 44 20 35 38 5 29 29.91 30.11													SUNRISE: 0646 NOV 12 SUNSET: 1701 01 OVC 070 10.00 -RA 46 35 41 66 7 19 30.13 30.33 04 BKN 095 10.00 45 37 41 74 7 17 30.10 30.29 07 BKN 120 10.00 45 36 41 71 7 19 30.11 30.31 10 BKN 250 10.00 53 37 46 55 10 22 30.11 30.30 13 BKN 250 10.00 60 39 50 46 7 24 30.03 30.23 16 SCT 250 10.00 65 43 54 45 5 20 29.99 30.18 19 BKN 250 10.00 55 44 50 67 8 20 29.97 30.16 22 BKN 250 10.00 57 46 51 67 10 23 29.94 30.13												

RICHMOND, VA NOVEMBER Temperatures



Long-Term (1957-2007) Mean: 49.8
1971-2000 Normal: 49.0

RICHMOND, VA NOVEMBER Precipitation



Long-Term (1957-2007) Mean Monthly Total: 3.12

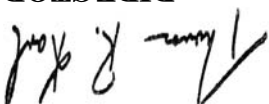
1971-2000 Normal: 3.06



**NOVEMBER 2007
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 for online delivery (including back issues) is significantly less than the cost 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

United States
Department of Commerce

National Oceanic and
Atmospheric Administration

National Environmental Satellite
and Atmospheric Administration

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