



NOVEMBER 2006 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



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	DIR	SPEED	DIR			
01	76	57	67	14	50	57	0	2			0.0	0.00	29.82	30.01	4.9	17	6.1	15	16	13	14	01		
02	63	42	53	0	40	47	12	0	RA		0.0	T	29.82	30.05	7.6	36	9.1	35	36	28	01	02		
03	50	33	42	-10	21	33	23	0			0.0	0.00	30.20		7.6	36	8.4	28	01	21	36	03		
04	50	30*	40*	-12	20	33	25	0			0.0	0.00	30.35	30.56	2.9	01	3.8	17	01	14	03	04		
05	57	31	44	-8	25	36	21	0			0.0	0.00	30.34	30.53	0.5	04	1.0	10	08	8	09	05		
06	62	35	49	-3	35	42	16	0	HZ		0.0	0.00	30.24	30.42	1.8	11	2.7	10	12	8	11	06		
07	62	39	51	0	48	50	14	0	RA MIFG BCFG BR		0.0	0.97	29.98	30.12	5.4	06	6.1	17	09	14	10	07		
08	69	61	65	14	60	62	0	0	RA BR		0.0	0.29	29.36	29.53	2.1	04	7.9	25	11	18	11	08		
09	75	57	66	15	51	57	0	1			0.0	0.00	29.46	29.68	6.4	31	8.3	22	34	18	34	09		
10	78	49	64	13	49	55	1	0			0.0	0.00	29.75	29.97	2.7	16	4.3	13	16	10	18	10		
11	79*	55	67	17	53	59	0	2	HZ		0.0	0.00	29.73	29.91	9.2	18	9.3	21	19	18	18	11		
12	67	50	59	9	48	51	6	0	RA BR		0.0	2.18	29.60	29.81	17.5	36	19.1	45*	01	33*	36	12		
13	58	50	54	4	48	51	11	0	RA HZ		0.0	T	29.69	29.88	12.0	34	12.5	26	01	22	01	13		
14	72	49	61	12	49	54	4	0			0.0	0.00	29.65	29.84	3.7	18	5.0	18	19	15	19	14		
15	67	45	56	7	49	53	9	0	BCFG BR HZ		0.0	0.00	29.70	29.89	3.8	13	4.0	20	15	14	15	15		
16	73	55	64	15	60	62	1	0	TSRA RA BR		0.0	1.55	29.38	29.61	14.2	17	16.5	43	22	31	22	16		
17	64	47	56	7	40	47	9	0			0.0	0.00	29.62	29.86	3.7	30	9.2	28	04	22	02	17		
18	55	42	49	0	31	40	16	0			0.0	0.00	29.83	30.03	7.1	01	7.5	22	03	16	02	18		
19	54	37	46	-3	33	40	19	0			0.0	0.00	29.81	30.01	4.6	36	4.8	17	01	14	01	19		
20	54	37	46	-2	31	39	19	0			0.0	0.00	29.95	30.18	7.1	01	7.7	21	01	17	01	20		
21	48	38	43	-4	32	38	22	0	RA		0.0	0.22	30.16	30.34	15.4	02	15.5	32	04	24	03	21		
22	47	42	45	-2	40	42	20	0	RA DZ BR		0.0	1.37	29.89	30.07	19.4	01	19.6	37	01	28	03	22		
23	49	42	46	-1	41	44	19	0	RA DZ BR		0.0	0.09	29.86	30.07	13.4	36	13.7	26	36	22	01	23		
24	67	40	54	7	33	43	11	0			0.0	0.00	29.98	30.20	6.1	35	6.5	20	01	15	01	24		
25	64	36	50	4	35	43	15	0	BR		0.0	0.00	30.14	30.34	1.5	03	2.4	10	01	8	36	25		
26	62	37	50	4	40	44	15	0	FG+ FG BR HZ		0.0	0.00	30.19	30.38	1.0	17	1.4	8	16	7	19	26		
27	66	38	52	6	42	46	13	0	FG+ FG BCFG BR		0.0	0.00	30.14	30.34	2.8	17	3.2	12	20	9	19	27		
28	69	41	55	10	46	49	10	0	FG+ FG BCFG BR		0.0	0.00	30.12	30.32	1.6	18	1.8	10	19	9	18	28		
29	67	47	57	12	54	56	8	0	FG+ FG BR HZ		0.0	0.00	30.14	30.34	4.2	17	4.7	10	16	9	22	29		
30	76	57	67*	22	57	61	0	2	RA		0.0	T	30.04	30.21	11.6	19	11.8	32	19	26	20	30		

63.3	44.0	53.7	☼	42.0	47.8	11.3	0.2	< MONTHLY AVERAGES TOTALS >				0.0	6.67	29.90	30.09	2.4	01	7.8	< MONTHLY AVERAGES			
3.6	5.6	4.7		-----DEPARTURE FROM NORMAL ----->				3.61		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3												
DEGREE DAYS								GREATEST 24-HR PRECIPITATION : 2.18 DATE : 12				SEA LEVEL PRESSURE				DATE TIME						
MONTHLY				SEASON TO DATE				GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.61 04 1115										
TOTAL DEPARTURE				TOTAL DEPARTURE				GREATEST SNOW DEPTH : DATE :				MINIMUM : 29.44 16 1403										
HEATING :		339 -131		552 -171				NUMBER OF ->		MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 2		PRECIPITATION >= 0.01 INCH: 7				PRECIPITATION >= 0.10 INCH: 6				
COOLING :		7 1		1692 258				THUNDERSTORMS : 1		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		HEAVY FOG : 4				SNOWFALL >= 1.0 INCH : 0				

**NOVEMBER 2006
RICHMOND, VA**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
NOVEMBER 2006

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	T	T	
03													03												03	0.00	0.00	
04													04												04	0.00	0.00	
05													05												05	0.00	0.00	
06													06												06	0.00	0.00	
07													07												07	0.97	0.97	
08	0.03	0.01	0.08	0.02	0.03	T		0.01	T	T			08	T	T	0.01	0.03	0.06	0.05	0.04	0.05	0.01	0.09	0.30	0.33	0.29	0.29	
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12	T	T	T	T	T	0.21	0.29	0.28	0.31	0.39	0.26	0.07	12	0.21	0.03	T	0.01	0.04	0.03	0.02	T	T		T	0.03	2.18	2.18	
13	T		T	T									13												13	T	T	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16													16	0.16	0.37	0.52	0.01								16	1.55	1.55	
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				T	0.01	0.02	T	0.02	0.04	0.03	0.05	0.05	0.22	0.22	
22	0.11	0.02	T	0.04	0.02	T	0.01	T	0.24	0.09	0.04	0.16	22	0.32	0.14	0.02	0.01	T	T	0.01	T	0.03	T	0.05	0.11	1.37	1.37	
23	0.05	T	T	T	T	0.01		T	T	T	0.01	T	23	0.01	T	0.01	T								23	0.09	0.09	
24													24												24	0.00	0.00	
25													25												25	0.00	0.00	
26													26												26	0.00	0.00	
27													27												27	0.00	0.00	
28													28												28	0.00	0.00	
29													29												29	0.00	0.00	
30													30												30	T	T	

* 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)	0.23	0.29	0.30	0.31	0.46	0.51	0.63	0.77	0.80	1.01	1.05	1.06
Ending Date	16	16	16	16	16	16	16	16	16	16	16	16
Ending Time (Hr/Min)	1446	1447	1447	1456	1447	1456	1447	1456	1447	1447	1500	1500

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 2006

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	
			Sky Cover	Satellite	Sky Cover	Satellite			
01							9.00	10.00	
02							9.00	10.00	
03							9.00	10.00	
04							7.00	10.00	
05							8.00	10.00	
06							6.00	10.00	
07							1.50	10.00	
08							1.50	10.00	
09							10.00	10.00	
10							8.00	10.00	
11							6.00	10.00	
12							1.50	10.00	
13							5.00	10.00	
14							7.00	10.00	
15							4.00	10.00	
16							0.75	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							9.00	10.00	
20							9.00	10.00	
21							7.00	10.00	
22							1.50	10.00	
23							2.00	10.00	
24							10.00	10.00	
25							4.00	10.00	
26							0.25	10.00	
27							0.00	10.00	
28							0.25	10.00	
29							0.12	10.00	
30							8.00	10.00	
MONTHLY AVGS							5.48	10.00	
SUNSHINE (Minutes)									
Total :					Possible :				
Percent Possible :									
NUMBER OF DAYS WITH :									
SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
MINIMUM VISIBILITY (MILES)									
<= .25			<= 3.0				>= 7.0		
4			10				15		

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
NOVEMBER 2006

KRIC

WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)					
			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: 0633						NOV 01						SUNSET: 1710																	
01	OVC	200			10.00	62	46	54	56	9	21	29.81	30.00	01	CLR	NC			7.00	42	38	40	86	0	00	30.13	30.33		
04	OVC	200			10.00	61	46	53	58	5	24	29.81	30.00	04	CLR	NC			8.00	MIFG	40	36	38	86	0	00	30.10	30.29	
07	BKN	250			10.00	59	48	53	67	0	00	29.86	30.05	07	OVC	250			1.50	BR	43	40	42	89	0	00	30.07	30.27	
10	SCT	250			10.00	67	50	58	55	0	00	29.90	30.09	10	OVC	250			8.00		53	48	50	83	6	04	30.03	30.22	
13	FEW	250			10.00	74	51	61	45	9	16	29.83	30.02	13	OVC	200			10.00	-RA	55	49	52	80	9	01	29.96	30.15	
16	BKN	250			10.00	74	52	61	46	6	15	29.79	29.98	16	OVC	065			5.00	-RA BR	57	53	55	87	7	07	29.86	30.05	
19	BKN	250			10.00	64	52	57	65	8	14	29.79	29.98	19	OVC	065			5.00	-RA BR	58	55	56	90	9	07	29.79	29.98	
22	BKN	250			10.00	62	52	56	70	7	16	29.77	29.96	22	OVC	050			3.00	+RA BR	59	57	58	93	10	07	29.67	29.86	
SUNRISE: 0634						NOV 02						SUNSET: 1709																	
01	BKN	110			9.00	59	52	55	78	6	18	29.71	29.90	01	OVC	011			10.00		63	60	61	90	8	11	29.52	29.71	
04	OVC	100			9.00	62	53	57	73	0	00	29.71	29.90	04	OVC	018			2.00	-RA BR	64	61	62	90	11	13	29.42	29.62	
07	OVC	023			10.00	53	46	49	77	22	01	29.77	29.96	07	OVC	006			7.00		64	61	62	90	10	15	29.39	29.57	
10	OVC	028			10.00	52	35	44	53	15	02	29.89	30.08	10	OVC	004			2.50	-RA BR	66	62	64	87	5	19	29.34	29.53	
13	SCT	250			10.00	60	38	49	44	9	32	29.87	30.06	13	OVC	010			2.50	BR	68	62	64	81	3	31	29.28	29.47	
16	SCT	050			10.00	59	36	48	42	9	03	29.86	30.06	16	OVC	014			2.50	-RA BR	66	62	64	87	8	02	29.26	29.44	
19	FEW	060			10.00	47	36	42	66	0	00	29.93	30.12	19	OVC	010			5.00	-RA BR	63	60	61	90	10	34	29.29	29.48	
22	CLR	NC			10.00	45	29	38	54	8	35	30.02	30.21	22	OVC	020			10.00		61	56	58	84	7	32	29.34	29.53	
SUNRISE: 0635						NOV 03						SUNSET: 1708																	
01	CLR	NC			10.00	41	24	35	51	10	36	30.07	30.26	01	OVC	050			10.00		61	55	58	81	8	34	29.34	29.52	
04	CLR	NC			10.00	35	21	30	57	8	36	30.12	30.31	04	SCT	036			10.00		60	53	56	78	10	34	29.39	29.57	
07	FEW	060			10.00	35	21	30	57	3	36	30.17	30.37	07	FEW	040			10.00		57	51	54	80	7	33	29.44	29.63	
10	CLR	NC			10.00	44	19	35	37	15	35	30.23	30.42	10	CLR	NC			10.00		67	51	58	57	13	36	29.52	29.70	
13	CLR	NC			10.00	48	18	37	30	10	30	30.19	30.38	13	FEW	040			10.00		72	50	60	46	15	32	29.49	29.68	
16	CLR	NC			10.00	49	17	37	28	6	36	30.18	30.38	16	CLR	NC			10.00		74	50	60	43	8	27	29.50	29.69	
19	CLR	NC			10.00	39	23	33	53	3	05	30.24	30.43	19	CLR	NC			10.00		67	50	58	55	8	24	29.56	29.75	
22	CLR	NC			10.00	35	24	31	64	9	36	30.31	30.50	22	CLR	NC			10.00		65	48	56	54	9	24	29.60	29.78	
SUNRISE: 0636						NOV 04						SUNSET: 1707																	
01	CLR	NC			10.00	34	19	29	54	6	01	30.33	30.53	01	CLR	NC			10.00		61	46	53	58	5	26	29.62	29.81	
04	CLR	NC			10.00	32	20	28	61	7	36	30.32	30.52	04	CLR	NC			10.00		54	45	49	72	3	23	29.67	29.87	
07	SCT	250			10.00	31	19	27	61	3	36	30.37	30.57	07	CLR	NC			8.00		50	45	48	83	0	00	29.76	29.95	
10	BKN	250			10.00	44	18	35	35	10	04	30.40	30.60	10	CLR	NC			10.00		69	49	58	49	5	03	29.83	30.02	
13	BKN	250			10.00	50	17	38	27	7	07	30.36	30.55	13	FEW	250			10.00		77	49	61	37	3	12	29.80	29.99	
16	BKN	250			10.00	49	15	37	26	0	00	30.34	30.53	16	SCT	250			10.00		76	51	62	42	8	15	29.80	29.99	
19	CLR	NC			10.00	41	23	34	49	3	36	30.37	30.57	19	SCT	250			10.00		63	51	56	65	5	13	29.82	30.01	
22	CLR	NC			10.00	35	25	31	67	0	00	30.37	30.57	22	BKN	250			10.00		62	50	55	65	6	15	29.83	30.02	
SUNRISE: 0637						NOV 05						SUNSET: 1706																	
01	CLR	NC			9.00	32	25	30	75	3	36	30.37	30.57	01	BKN	200			9.00		61	51	56	70	9	17	29.80	29.99	
04	BKN	250			8.00	33	27	31	79	0	00	30.36	30.55	04	BKN	250			9.00		58	50	54	75	6	20	29.80	29.99	
07	BKN	250			9.00	34	27	31	76	0	00	30.37	30.57	07	BKN	250			6.00	HZ	57	50	53	78	7	18	29.80	29.99	
10	SCT	200			10.00	48	22	38	36	0	00	30.39	30.58	10	FEW	250			10.00		68	54	60	61	9	18	29.78	29.97	
13	SCT	250			10.00	55	20	41	25	6	35	30.32	30.51	13	SCT	250			10.00		78	52	63	40	13	19	29.69	29.88	
16	SCT	250			10.00	55	22	42	28	6	09	30.27	30.47	16	BKN	250			10.00		77	55	64	47	13	17	29.65	29.84	
19	SCT	250			10.00	44	28	38	53	0	00	30.29	30.48	19	SCT	250			10.00		70	55	61	59	8	17	29.64	29.83	
22	SCT	250			10.00	38	29	34	70	0	00	30.30	30.49	22	BKN	200			10.00		68	54	60	61	10	18	29.65	29.84	
SUNRISE: 0638						NOV 06						SUNSET: 1705																	
01	BKN	250			8.00	35	30	33	82	0	00	30.30	30.49	01	OVC	060			10.00	-RA	67	56	61	68	9	19	29.62	29.80	
04	BKN	250			9.00	37	31	35	79	0	00	30.28	30.47	04	OVC	055			9.00		64	55	59	73	20	36	29.63	29.82	
07	BKN	250			6.00	38	33	36	82	3	02	30.28	30.48	07	OVC	046			2.00	+RA BR	53	49	51	86	25	01	29.63	29.82	
10	SCT	250			10.00	53	35	45	51	3	VR	30.29	30.49	10	OVC	021			1.50	+RA BR	51	47	49	86	20	33	29.64	29.83	
13	BKN	250			10.00	59	31	46	35	3	14	30.23	30.42	13	OVC	013			2.00	RA BR	50	47	48	90	23	36	29.57	29.76	
16	BKN	250			10.00	60	36	49	41	6	14	30.18	30.37	16	OVC	013			8.00	RA	50	45	48	83	21	36	29.55	29.75	
19	BKN	250			10.00	51	38	45	61	6	10	30.17	30.36	19	OVC	025			10.00	-RA	50	45	48	83	25	36	29.60	29.80	
22	SCT	250			10.00	48	42	45	80	0	00	30.16	30.35	22	OVC	015			10.00		51	44	48	77	20	36	29.67	29.87	

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

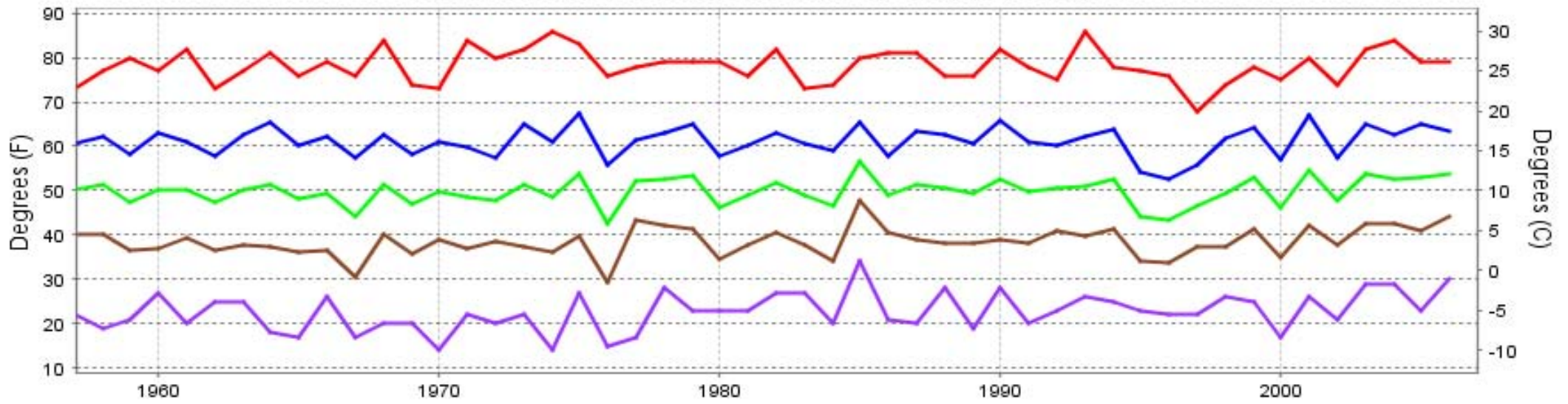
NOVEMBER 2006

KRIC

WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)													
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)				STATION	SEA LEVEL		Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL								
																												Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	STATION
SUNRISE: 0646						NOV 13						SUNSET: 1659						SUNRISE: 0652						NOV 19						SUNSET: 1655					
01	OVC	029			10.00		50	45	48	83	14	36	29.70	29.89	01	BKN	150			10.00		43	33	39	68	0	00	29.81	30.01						
04	OVC	007			10.00		51	46	48	83	15	36	29.68	29.88	04	SCT	150			10.00		41	32	37	70	5	31	29.79	29.99						
07	OVC	010			10.00		51	46	48	83	15	34	29.70	29.90	07	FEW	150			9.00		38	31	35	76	5	33	29.81	30.01						
10	OVC	008			5.00	HZ	54	49	51	83	14	35	29.71	29.90	10	BKN	120			10.00		50	33	43	52	9	36	29.84	30.03						
13	OVC	010			10.00		56	50	53	80	14	35	29.68	29.87	13	SCT	110			10.00		53	33	44	47	8	01	29.80	29.99						
16	OVC	012			10.00		57	50	53	78	10	33	29.66	29.85	16	FEW	044			10.00		52	32	43	47	10	01	29.79	29.98						
19	OVC	010			10.00		57	51	54	80	10	33	29.67	29.87	19	CLR	NC			10.00		42	33	38	71	0	00	29.83	30.02						
22	OVC	016			10.00		57	49	53	75	7	32	29.68	29.88	22	BKN	080			9.00		41	34	38	76	0	00	29.85	30.04						
SUNRISE: 0647						NOV 14						SUNRISE: 0653						NOV 20						SUNSET: 1654											
01	OVC	032			10.00		57	50	53	78	6	30	29.68	29.87	01	OVC	090			9.00		44	36	40	74	0	00	29.86	30.05						
04	OVC	033			10.00		57	51	54	80	0	00	29.67	29.86	04	BKN	100			10.00		40	32	37	73	6	36	29.88	30.08						
07	SCT	200			7.00		50	46	48	86	5	21	29.68	29.88	07	SCT	095			9.00		38	31	35	76	0	00	29.93	30.12						
10	SCT	250			10.00		62	51	56	67	0	00	29.69	29.88	10	CLR	NC			10.00		48	31	41	52	15	02	29.97	30.17						
13	SCT	150			10.00		70	52	60	53	8	19	29.62	29.81	13	FEW	040			10.00		53	30	43	41	9	01	29.96	30.15						
16	SCT	250			10.00		68	47	57	47	10	18	29.59	29.79	16	SCT	060			10.00		51	29	42	43	14	01	29.98	30.18						
19	BKN	250			10.00		58	49	53	72	3	15	29.63	29.83	19	FEW	200			10.00		43	28	37	56	13	02	30.06	30.25						
22	BKN	250			10.00		56	47	51	72	0	00	29.64	29.84	22	OVC	200			10.00		41	29	36	62	7	04	30.14	30.34						
SUNRISE: 0648						NOV 15						SUNRISE: 0654						NOV 21						SUNSET: 1654											
01	SCT	250			10.00		54	47	50	77	0	00	29.66	29.85	01	BKN	200			10.00		38	30	35	73	7	36	30.17	30.36						
04	SCT	200			6.00	BR	51	47	49	86	0	00	29.69	29.89	04	BKN	200			10.00		40	28	35	62	13	01	30.17	30.37						
07	BKN	200			5.00	BR	46	42	44	86	3	17	29.71	29.91	07	BKN	200			10.00		40	27	35	60	13	02	30.22	30.41						
10	BKN	250			8.00		60	48	54	65	0	00	29.76	29.95	10	OVC	180			10.00		43	29	37	58	18	01	30.23	30.42						
13	OVC	150			10.00		66	47	56	51	0	00	29.74	29.93	13	OVC	120			10.00		47	30	40	52	17	02	30.15	30.34						
16	OVC	200			10.00		65	51	57	61	6	09	29.70	29.89	16	OVC	031		-RA	10.00		47	35	42	63	20	03	30.11	30.31						
19	OVC	200			10.00		61	49	55	65	7	12	29.69	29.88	19	OVC	036		-RA	10.00		45	35	41	68	21	02	30.09	30.29						
22	OVC	200			10.00		62	55	58	78	13	14	29.66	29.85	22	OVC	033		-RA	8.00		44	37	41	77	18	03	30.07	30.27						
SUNRISE: 0649						NOV 16						SUNRISE: 0655						NOV 22						SUNSET: 1653											
01	OVC	200			10.00		65	58	61	78	14	14	29.60	29.79	01	OVC	020		7.00	RA		43	38	41	83	20	01	30.01	30.20						
04	BKN	200			10.00		66	59	62	78	15	14	29.56	29.75	04	OVC	037		5.00	-RA BR		44	39	42	83	21	01	29.94	30.13						
07	OVC	041			10.00	-RA	69	62	65	79	13	16	29.50	29.69	07	OVC	010		5.00	-DZ BR		45	41	43	86	24	02	29.86	30.05						
10	OVC	060			10.00		70	66	67	87	20	14	29.41	29.59	10	OVC	015		2.00	-RA BR		47	42	45	83	26	02	29.85	30.04						
13	OVC	026			3.00	-RA BR	72	68	69	87	13	18	29.29	29.48	13	OVC	015		1.50	+RA BR		46	42	44	86	24	01	29.84	30.03						
16	BKN	060			10.00		68	61	64	78	13	18	29.31	29.49	16	OVC	010		10.00			43	38	41	83	18	01	29.82	30.01						
19	CLR	NC			10.00		63	55	58	75	16	19	29.36	29.55	19	OVC	010		2.00	-RA BR		43	39	41	86	15	01	29.85	30.05						
22	FEW	020			10.00		60	51	55	72	16	23	29.44	29.62	22	OVC	009		4.00	-RA BR		43	40	42	89	16	36	29.88	30.08						
SUNRISE: 0650						NOV 17						SUNRISE: 0656						NOV 23						SUNSET: 1653											
01	FEW	060			10.00		54	42	48	64	14	22	29.48	29.67	01	OVC	007		8.00			43	39	41	86	16	01	29.85	30.05						
04	CLR	NC			10.00		51	41	46	69	14	24	29.52	29.72	04	OVC	007		5.00	-RA BR		43	39	41	86	17	36	29.83	30.02						
07	CLR	NC			10.00		49	40	45	71	7	24	29.61	29.80	07	OVC	007		6.00	BR		43	39	41	86	16	36	29.84	30.04						
10	CLR	NC			10.00		56	40	48	55	9	24	29.67	29.86	10	OVC	005		3.00	-DZ BR		44	40	42	86	17	36	29.88	30.08						
13	SCT	060			10.00		61	41	51	48	10	33	29.67	29.87	13	OVC	007		5.00	-RA BR		46	42	44	86	14	36	29.86	30.06						
16	BKN	060			10.00		62	41	51	46	3	10	29.69	29.88	16	OVC	013		10.00			48	43	46	83	11	35	29.88	30.08						
19	BKN	060			10.00		58	43	50	58	0	00	29.74	29.93	19	OVC	011		7.00			48	44	46	86	13	36	29.90	30.09						
22	OVC	060			10.00		50	32	42	50	17	01	29.81	30.00	22	OVC	025		10.00			49	43	46	80	13	36	29.91	30.11						
SUNRISE: 0651						NOV 18						SUNRISE: 0657						NOV 24						SUNSET: 1653											
01	OVC	060			10.00		47	31	40	54	14	02	29.83	30.02	01	CLR	NC		10.00			46	41	44	83	7	31	29.90	30.10						
04	BKN	060			10.00		45	31	39	58	6	02	29.85	30.04	04	CLR	NC		10.00			45	39	42	80	7	33	29.92	30.11						
07	BKN	250			10.00		43	30	38	60	6	02	29.87	30.07	07	FEW	035		10.00			45	36	41	71	8	33	29.97	30.17						
10	SCT	200			10.00		49	30	41	48	14	02	29.90	30.09	10	CLR	NC		10.00			55	33	45	43	11	36	30.02	30.22						
13	SCT	200			10.00		53	30	43	41	10	32	29.82	30.01	13	CLR	NC		10.00			64	29	48	27	10	36	30.00	30.19						
16	FEW	150			10.00		54	30	44	40	10	34	29.78	29.97	16	CLR	NC		10.00			64	27	48	25	9	01	30.01	30.20						
19	BKN	150			10.00		48	33	41	56	7	01	29.81	30.00	19	FEW	250		10.00			49	33	42	54	0	00	30.05	30.24						
22	SCT	150			10.00		43	32	38	65	3	02	29.83	30.02	22	CLR	NC		10.00			44	32	39	63	0	00	30.08	30.27						

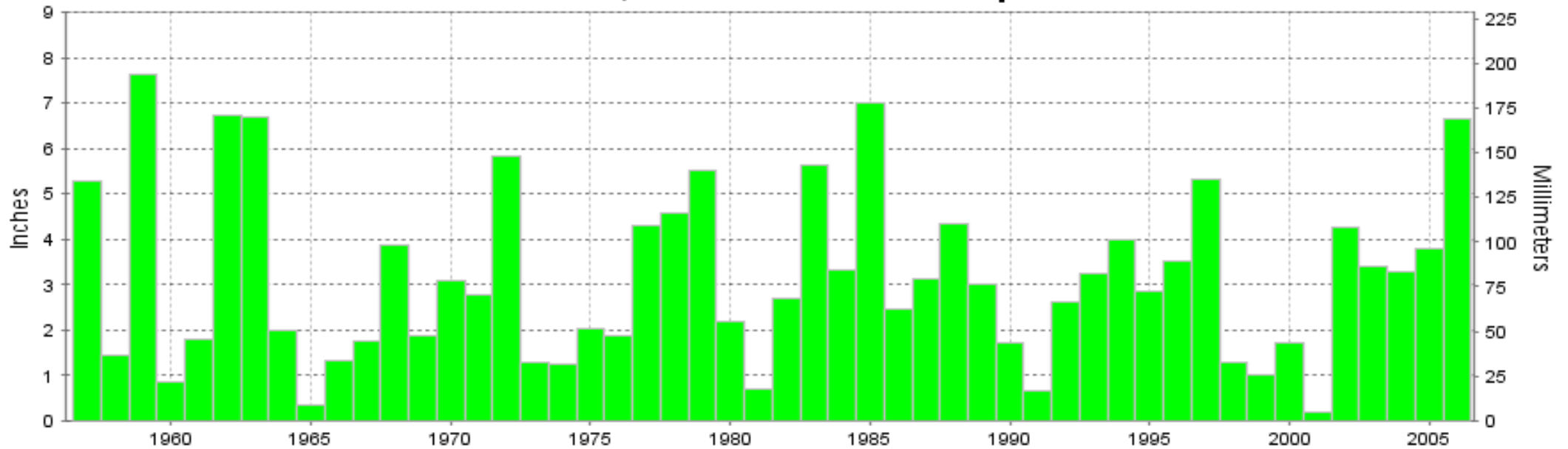
RICHMOND, VA NOVEMBER Temperatures



— Extreme Max
 — Mean Max
 — Mean
 — Mean Min
 — Extreme Min

Long-Term (1957-2006) Mean: 49.8
1971-2000 Normal: 49.0

RICHMOND, VA NOVEMBER Precipitation



Long-Term (1957-2006) Mean Monthly Total: 3.16

1971-2000 Normal: 3.06



**NOVEMBER 2006
RICHMOND, VA**

**LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center**

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Thomas R. Karl
DIRECTOR

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