



NOVEMBER 2008 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					
																			3-SEC		2-MIN			
11	12	13	14	15	16	17	18	19	20	21	22	23	24											
01	75	38	57	4	40	47	8	0			0.0	0.00	30.12	30.31	0.7	18	0.9	12	21	9	21	01		
02	68	44	56	3	47	51	9	0	BR		0.0	0.00	30.17	30.39	5.5	09	6.4	22	12	16	12	02		
03	66	53	60	8	50	54	5	0			0.0	0.00	30.24	30.42	6.5	04	6.7	14	05	12	03	03		
04	61	55	58	6	56	57	7	0	RA BR		0.0	0.33	30.09	30.26	9.2	04	9.2	22	05	17	04	04		
05	71	58	65	13	55	58	0	0	RA DZ BR		0.0	0.01	29.85	30.01	13.2	02	13.8	35	02	24	03	05		
06	66	59	63	11	55	58	2	0	RA BR		0.0	0.02	29.70	29.90	12.8	35	13.0	33	35	28	35	06		
07	75	54	65	14	55	58	0	0	BR		0.0	0.00	29.72	29.90	0.6	23	3.5	14	27	9	27	07		
08	71	53	62	11	51	55	3	0	RA BR		0.0	0.05	29.52	29.71	6.0	23	7.8	21	30	17	31	08		
09	63	41	52	1	34	44	13	0			0.0	0.00	29.65	29.88	5.9	28	6.3	24	28	18	29	09		
10	58	35	47	-4	30	39	18	0			0.0	0.00	29.91	30.13	3.1	33	4.7	20	04	14	04	10		
11	53	32	43	-7	27	37	22	0			0.0	0.00	30.16	30.37	3.6	02	4.8	29	11	12	02	11		
12	54	43	49	-1	37	43	16	0	RA		0.0	0.01	30.18	30.37	0.8	08	1.4	8	15	6	11	12		
13	63	46	55	5	49	51	10	0	RA FG BR		0.0	0.27	29.92	30.07	1.7	09	5.4	35	35	28	34	13		
14	60	53	57	8	55	56	8	0	RA FG+ FG BR		0.0	0.11	29.75	29.94	2.4	20	3.2	25	16	22	16	14		
15	77*	54	66*	17	59	62	0	1	TS TSRA RA FG+ BR		0.0	1.45	29.42	29.60	10.8	22	13.7	39*	21	29*	21	15		
16	55	39	47	-2	28	39	18	0			0.0	0.00	29.66	29.90	11.2	30	11.5	31	28	23	33	16		
17	50	32	41	-8	27	36	24	0			0.0	0.00	29.91	30.11	5.3	28	6.3	21	27	17	27	17		
18	44	32	38	-11	21	31	27	0	RA SN		T	T	29.97	30.17	12.2	35	12.5	31	34	23	35	18		
19	42	28	35	-14	16	29	30	0			0.0	0.00	30.03	30.21	7.4	33	9.5	28	01	22	36	19		
20	53	30	42	-6	21	35	23	0			0.0	0.00	29.78	29.98	6.3	31	8.1	25	32	18	31	20		
21	46	29	38	-9	17	31	27	0			0.0	0.00	29.95	30.19	11.0	33	12.2	38	34	28	35	21		
22	41	24	33*	-14	11	26	32	0			0.0	0.00	30.31	30.52	5.8	30	6.7	22	33	17	33	22		
23	47	20*	34	-13	16	28	31	0			0.0	0.00	30.29	30.48	1.6	15	2.7	15	20	8	24	23		
24	57	28	43	-4	25	36	22	0	RA BR		0.0	0.32	30.04	30.19	9.4	20	9.8	26	18	21	20	24		
25	51	39	45	-1	29	39	20	0	RA BR		0.0	0.05	29.69	29.89	11.7	28	12.9	35	31	25	32	25		
26	48	32	40	-6	24	34	25	0			0.0	0.00	29.85	30.06	6.3	28	7.2	17	32	14	29	26		
27	55	27	41	-5	27	35	24	0			0.0	0.00	29.86	30.05	1.3	17	1.6	15	22	9	24	27		
28	59	38	49	4	30	40	16	0			0.0	0.00	29.70	29.89	4.9	26	6.1	20	27	16	27	28		
29	51	37	44	-1	27	37	21	0	RA		0.0	0.01	29.77	29.96	4.7	08	5.5	15	03	12	04	29		
30	60	39	50	5	43	44	15	0	RA FG+ FG BR		0.0	0.88	29.44	29.58	2.3	04	7.1	32	25	25	26	30		

58.0	39.7	48.9	☼	35.4	43.0	15.9	0.0	< MONTHLY AVERAGES TOTALS >				T	3.51	29.89	30.08	2.8	32	7.3	< MONTHLY AVERAGES				
-1.7	1.3	-0.1		-----DEPARTURE FROM NORMAL ----->								0.45	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										
DEGREE DAYS								GREATEST 24-HR PRECIPITATION : 1.50 DATE : 14-15				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY								GREATEST 24-HR SNOWFALL : T DATE : 18				MAXIMUM : 30.58				22 1053							
TOTAL DEPARTURE								GREATEST SNOW DEPTH : DATE :				MINIMUM : 29.34				30 2154							
SEASON TO DATE								NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 11				PRECIPITATION >= 0.01 INCH : 12			
HEATING : 476 6 703 -20								MAXIMUM TEMP <= 32 : 0				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH : 6							
COOLING : 1 -5 1637 203								THUNDERSTORMS : 1				HEAVY FOG : 3				SNOWFALL >= 1.0 INCH : 0							

**NOVEMBER 2008
RICHMOND, VA**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
NOVEMBER 2008

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	T	T	0.02	0.03	0.02	0.01	0.01	0.02	0.03	0.01			04	0.06	0.03	0.06	0.03	T	T					04	0.33	0.33		
05		T	T		T	T	0.01						05			T	T	T				T		05	0.01	0.01		
06	0.01	T						T	0.01				06											06	0.02	0.02		
07													07											07	0.00	0.00		
08								T	T	T	0.05		08											08	0.05	0.05		
09													09											09	0.00	0.00		
10													10											10	0.00	0.00		
11													11											11	0.00	0.00		
12					T	0.01	T						12											12	0.01	0.01		
13			T	T							0.17		13	0.07	T	0.01	0.01	0.01						13	0.27	0.27		
14													14		T	0.01	0.04	0.01	0.02	0.01	T		0.01	0.01	14	0.11	0.11	
15	0.15	0.18	0.14	0.37	0.54	0.01	T	T	T				15					T	0.01	0.03	0.02			15	1.45	1.45		
16													16											16	0.00	0.00		
17													17											17	0.00	0.00		
18													18			T								18	T	T		
19													19											19	0.00	0.00		
20													20											20	0.00	0.00		
21													21											21	0.00	0.00		
22													22											22	0.00	0.00		
23													23											23	0.00	0.00		
24													24				T	T	0.02	0.04	0.11	0.07	0.08	24	0.32	0.32		
25	0.05	T	T										25											25	0.05	0.05		
26													26											26	0.00	0.00		
27													27											27	0.00	0.00		
28													28											28	0.00	0.00		
29													29									T	0.01	29	0.01	0.01		
30	T	0.03	0.01	0.03	0.06	0.14	0.09	0.07	0.05	0.06	0.09	0.08	30	0.04	0.03	T	T	0.01	T		0.01	T	0.08	30	0.88	0.88		

* 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)	0.13	0.24	0.30	0.40	0.45	0.60	0.67	0.75	0.86	0.94	1.02	1.07
Ending Date	15	15	15	15	15	15	15	15	15	15	15	15
Ending Time (Hr/Min)	0401	0404	0412	0414	0415	0437	0451	0439	0449	0451	0451	0449

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 2008

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							10.00	10.00	
02							6.00	10.00	
03							10.00	10.00	
04							1.50	10.00	
05							4.00	10.00	
06							2.00	10.00	
07							5.00	10.00	
08							6.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							8.00	10.00	
13							0.50	10.00	
14							0.12	3.00	
15							0.25	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							5.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							9.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							0.12	10.00	
MONTHLY AVGS							7.25	9.77	
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			
3			6			19			

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
NOVEMBER 2008

KRIC

WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)														
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION				SEA LEVEL	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									
																														DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL	
SUNRISE: 0634													NOV 01													SUNSET: 1712												
01	CLR	NC			10.00		45	35	41	68	5	21	30.17	30.37	01	FEW	055			10.00		58	55	56	90	5	35	29.75	29.95									
04	CLR	NC			10.00		40	35	38	82	0	00	30.14	30.33	04	FEW	017			8.00		55	53	54	93	5	01	29.75	29.94									
07	CLR	NC			10.00		39	35	37	86	0	00	30.14	30.34	07	FEW	250			5.00	BR	55	53	54	93	0	00	29.77	29.96									
10	CLR	NC			10.00		59	40	50	50	0	00	30.15	30.35	10	SCT	016			10.00		66	57	61	73	3	31	29.78	29.97									
13	CLR	NC			10.00		74	41	57	31	0	00	30.10	30.29	13	SCT	025			10.00		72	56	63	57	3	25	29.71	29.90									
16	FEW	250			10.00		72	41	56	33	6	20	30.06	30.25	16	SCT	250			10.00		74	55	63	52	5	19	29.67	29.85									
19	BKN	250			10.00		55	45	50	69	0	00	30.08	30.28	19	CLR	NC			10.00		61	54	57	78	0	00	29.66	29.85									
22	SCT	250			10.00		52	43	48	72	0	00	30.10	30.29	22	CLR	NC			10.00		56	53	54	90	6	15	29.64	29.83									
SUNRISE: 0635													NOV 02													SUNSET: 1710												
01	SCT	250			10.00		48	43	46	83	0	00	30.09	30.28	01	BKN	250			10.00		56	52	54	87	5	21	29.60	29.79									
04	SCT	250			7.00		46	42	44	86	0	00	30.10	30.29	04	OVC	250			10.00		57	51	54	80	6	20	29.54	29.73									
07	SCT	250			10.00		47	42	45	83	6	03	30.15	30.34	07	OVC	250			10.00		58	52	55	81	7	19	29.53	29.72									
10	FEW	250			10.00		61	49	55	65	13	08	30.21	30.40	10	OVC	100			6.00	-RA BR	58	55	56	90	8	22	29.54	29.74									
13	SCT	250			10.00		68	53	59	59	9	07	30.21	30.41	13	SCT	060			10.00		67	56	61	68	7	20	29.47	29.66									
16	OVC	029			10.00		61	51	56	70	10	10	30.23	30.42	16	SCT	050			10.00		68	48	57	49	9	23	29.44	29.63									
19	OVC	020			10.00		57	48	52	72	9	10	30.27	30.46	19	BKN	060			10.00		59	54	56	84	5	22	29.48	29.67									
22	OVC	014			10.00		55	48	51	77	6	06	30.28	30.47	22	FEW	060			10.00		57	38	48	49	9	31	29.55	29.75									
SUNRISE: 0636													NOV 03													SUNSET: 1709												
01	OVC	011			10.00		55	49	52	80	5	04	30.27	30.47	01	FEW	070			10.00		51	36	44	57	5	28	29.58	29.77									
04	OVC	020			10.00		54	49	51	83	8	03	30.27	30.46	04	CLR	NC			10.00		42	35	39	76	0	00	29.60	29.79									
07	OVC	020			10.00		53	47	50	80	9	03	30.30	30.49	07	CLR	NC			10.00		45	34	40	65	6	29	29.66	29.85									
10	OVC	018			10.00		57	49	53	75	6	02	30.28	30.47	10	CLR	NC			10.00		58	36	48	44	7	28	29.69	29.88									
13	OVC	250			10.00		64	52	57	65	5	08	30.22	30.42	13	FEW	050			10.00		62	32	48	32	13	28	29.65	29.85									
16	OVC	250			10.00		64	53	58	68	8	06	30.17	30.36	16	BKN	085			10.00		60	33	47	36	7	28	29.68	29.87									
19	OVC	180			10.00		59	52	55	78	7	04	30.19	30.38	19	BKN	070			10.00		54	34	45	47	5	28	29.74	29.93									
22	OVC	010			10.00		58	51	54	78	7	04	30.17	30.36	22	CLR	NC			10.00		49	31	41	50	8	32	29.80	29.99									
SUNRISE: 0637													NOV 04													SUNSET: 1708												
01	OVC	007			9.00	-RA	57	53	55	87	7	03	30.15	30.35	01	CLR	NC			10.00		44	32	39	63	5	30	29.83	30.02									
04	OVC	005			5.00	-RA BR	55	53	54	93	7	03	30.13	30.32	04	SCT	065			10.00		41	32	37	70	3	30	29.85	30.04									
07	OVC	003			1.50	-RA BR	55	53	54	93	9	03	30.12	30.32	07	FEW	200			10.00		37	30	34	76	0	00	29.92	30.11									
10	OVC	003			2.50	-RA BR	58	56	57	93	9	04	30.11	30.31	10	CLR	NC			10.00		53	31	43	43	8	29	29.96	30.15									
13	OVC	003			2.50	BR	60	58	59	93	11	04	30.05	30.24	13	CLR	NC			10.00		56	27	44	33	7	30	29.91	30.10									
16	OVC	010			2.00	-RA BR	60	58	59	93	9	05	30.03	30.22	16	CLR	NC			10.00		57	27	44	32	9	34	29.92	30.11									
19	OVC	008			7.00		59	56	57	90	11	04	30.03	30.22	19	FEW	250			10.00		45	31	39	58	0	00	29.98	30.17									
22	OVC	010			10.00		59	55	57	87	14	05	29.99	30.19	22	CLR	NC			10.00		42	28	36	58	8	04	30.07	30.26									
SUNRISE: 0638													NOV 05													SUNSET: 1707												
01	OVC	007			10.00		59	55	57	87	14	03	29.94	30.13	01	CLR	NC			10.00		39	27	34	62	9	04	30.12	30.32									
04	OVC	065			9.00		58	55	56	90	13	04	29.90	30.10	04	CLR	NC			10.00		35	25	31	67	7	03	30.15	30.35									
07	OVC	007			6.00	BR	58	55	56	90	11	04	29.89	30.08	07	SCT	250			10.00		33	25	30	72	0	00	30.19	30.39									
10	OVC	015			10.00		61	56	58	84	15	03	29.87	30.06	10	FEW	250			10.00		47	26	39	44	7	03	30.22	30.41									
13	OVC	250			10.00		67	56	61	68	14	02	29.79	29.98	13	BKN	250			10.00		50	26	40	39	0	00	30.16	30.36									
16	OVC	060			10.00		66	52	58	61	23	03	29.77	29.96	16	BKN	250			10.00		51	26	41	38	5	35	30.16	30.35									
19	OVC	090			10.00	-RA	63	55	58	75	18	36	29.77	29.96	19	OVC	250			10.00		47	30	40	52	5	06	30.17	30.37									
22	OVC	060			10.00		62	53	57	73	14	36	29.75	29.94	22	OVC	110			10.00		46	31	40	56	3	11	30.19	30.39									
SUNRISE: 0639													NOV 06													SUNSET: 1706												
01	OVC	090			10.00	-RA	60	52	56	75	16	36	29.68	29.88	01	OVC	090			10.00		46	34	41	63	0	00	30.19	30.39									
04	OVC	028			10.00		62	51	56	67	16	36	29.66	29.85	04	OVC	100			10.00		45	36	41	71	0	00	30.18	30.37									
07	OVC	026			10.00		60	53	56	78	14	35	29.69	29.88	07	BKN	150			10.00		43	39	41	86	0	00	30.21	30.40									
10	OVC	018			10.00		62	55	58	78	16	35	29.71	29.90	10	OVC	200			10.00		48	36	43	63	0	00	30.22	30.42									
13	OVC	018			10.00		65	56	60	73	14	35	29.69	29.88	13	OVC	200			10.00		52	36	45	55	0	00	30.18	30.37									
16	OVC	022			10.00		66	56	60	70	10	34	29.71	29.91	16	OVC	200			10.00		53	36	45	53	0	00	30.16	30.35									
19	BKN	050			10.00		65	56	60	73	9	36	29.75	29.94	19	BKN	150			10.00		46	38	42	74	5	07	30.15	30.35									
22	BKN	055			10.00		62	56	59	81	9	33	29.76	29.95	22	BKN	200			10.00		44	40	42	86	0	00	30.13	30.32									

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

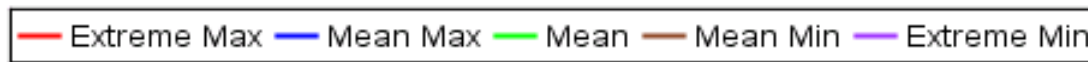
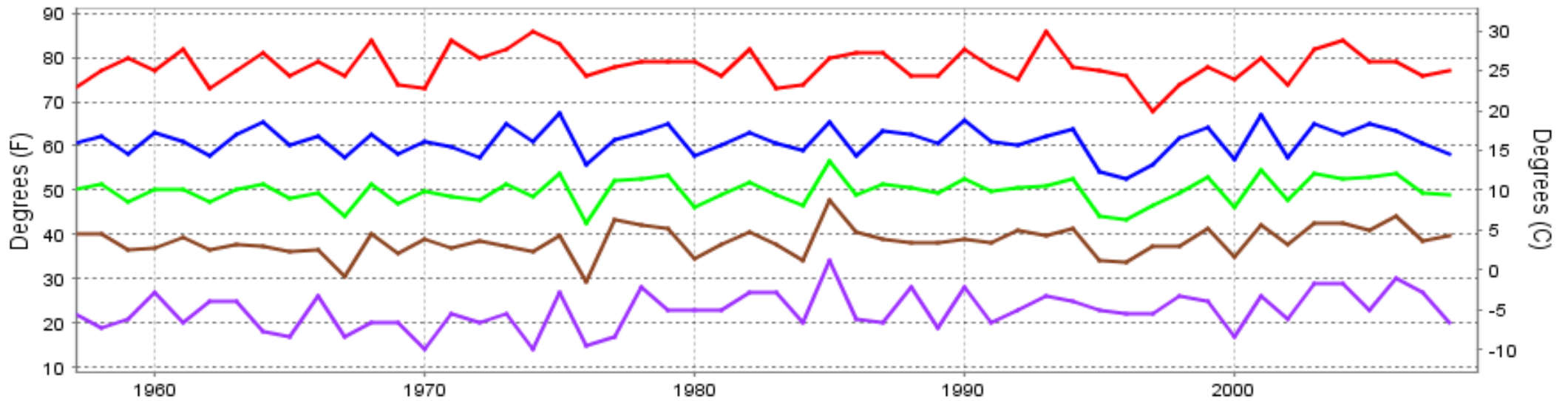
NOVEMBER 2008

KRIC

WBAN # 13740

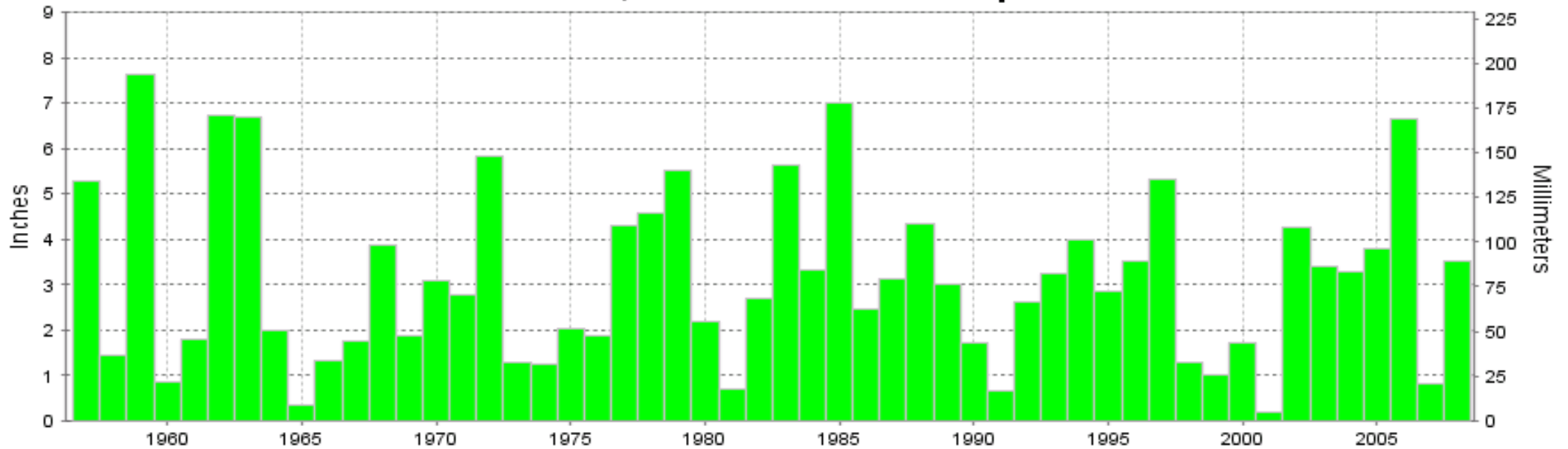
HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH) DIRECTION 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)	WEATHER		DRY BULB	DEW POINT	WET BULB			STATION	SEA LEVEL				VISIBILITY (MILES)	WEATHER		DRY BULB	DEW POINT	WET BULB			STATION	SEA LEVEL														
SUNRISE: 0647 NOV 13						SUNSET: 1700						SUNRISE: 0653 NOV 19						SUNSET: 1656																					
01	OVC	150				9.00						46	42	44	86	0	00	30.08	30.27	01	CLR	NC				10.00						32	15	27	49	10	35	30.08	30.28
04	OVC	044			BR	6.00						47	44	46	89	3	36	30.02	30.21	04	CLR	NC				10.00						30	14	25	51	17	36	30.09	30.29
07	OVC	250				10.00						51	48	49	90	5	14	29.95	30.14	07	FEW	100				10.00						29	15	25	56	11	34	30.12	30.32
10	OVC	060				10.00						60	53	56	78	9	17	29.88	30.07	10	SCT	250				10.00						36	15	29	42	14	34	30.12	30.32
13	OVC	024			-RA	7.00						51	49	50	93	6	03	29.88	30.07	13	SCT	250				10.00						40	15	32	36	9	33	30.03	30.23
16	OVC	039			-RA BR	2.00						53	51	52	93	6	13	29.80	29.99	16	BKN	250				10.00						41	14	32	33	9	30	29.94	30.14
19	OVC	003			BR	5.00						54	52	53	93	7	35	29.79	29.98	19	OVC	095				10.00						38	15	30	39	5	27	29.91	30.11
22	OVC	003			FG	0.50						53	52	52	96	3	31	29.79	29.98	22	OVC	080				10.00						37	20	31	50	6	22	29.88	30.08
SUNRISE: 0648 NOV 14						SUNSET: 1660						SUNRISE: 0654 NOV 20						SUNSET: 1656																					
01	OVC	003			BR	2.00						53	51	52	93	3	35	29.78	29.98	01	OVC	070				10.00						37	20	31	50	5	21	29.81	30.01
04	OVC	002			BR	2.00						53	51	52	93	0	00	29.76	29.95	04	OVC	070				10.00						37	20	31	50	6	25	29.76	29.95
07	OVC	002			BR	0.75						53	52	52	96	3	20	29.78	29.97	07	FEW	070				10.00						32	20	28	61	3	20	29.75	29.95
10	OVC	002			FG	0.50						56	55	55	96	5	20	29.81	30.01	10	SCT	150				10.00						47	22	37	37	7	29	29.77	29.96
13	OVC	005			BR	2.50						59	56	57	90	3	23	29.71	29.90	13	SCT	060				10.00						53	24	41	32	11	32	29.74	29.94
16	OVC	038			-RA BR	2.00						59	56	57	90	7	17	29.74	29.93	16	SCT	070				10.00						51	21	39	31	11	35	29.76	29.95
19	OVC	012			BR	3.00						59	57	58	93	5	22	29.73	29.92	19	SCT	070				10.00						44	21	35	40	8	34	29.83	30.02
22	VV	001			FG	0.50						59	58	58	97	0	00	29.70	29.90	22	OVC	100				10.00						42	20	34	41	8	33	29.84	30.04
SUNRISE: 0649 NOV 15						SUNSET: 1659						SUNRISE: 0655 NOV 21						SUNSET: 1655																					
01	OVC	003			TS+RA FG	0.25						60	58	59	93	7	17	29.62	29.81	01	OVC	044				10.00						42	21	34	43	10	35	29.84	30.04
04	OVC	005			TS+RA BR	2.00						64	62	63	93	11	16	29.52	29.71	04	OVC	110				10.00						37	28	34	70	5	21	29.85	30.04
07	OVC	015			-RA	10.00						70	67	68	90	18	21	29.45	29.64	07	BKN	130				10.00						38	27	34	65	7	26	29.88	30.07
10	BKN	150				10.00						71	64	67	79	23	21	29.41	29.60	10	SCT	130				10.00						42	17	33	36	15	33	29.92	30.11
13	BKN	029				10.00						75	64	68	69	23	20	29.31	29.49	13	BKN	250				10.00						44	14	34	30	13	34	29.91	30.11
16	BKN	100				10.00						75	59	65	58	20	23	29.28	29.47	16	BKN	250				10.00						39	14	31	36	18	35	30.00	30.20
19	OVC	070			-RA	10.00						64	53	58	68	8	28	29.34	29.52	19	SCT	075				10.00						33	9	26	36	16	33	30.16	30.36
22	OVC	080			-RA	10.00						56	52	54	87	8	23	29.41	29.60	22	CLR	NC				10.00						30	10	24	43	11	34	30.24	30.44
SUNRISE: 0650 NOV 16						SUNSET: 1658						SUNRISE: 0656 NOV 22						SUNSET: 1655																					
01	FEW	080				10.00						52	35	44	53	11	29	29.47	29.65	01	CLR	NC				10.00						29	10	24	45	9	32	30.27	30.47
04	CLR	NC				10.00						47	31	40	54	11	32	29.52	29.71	04	CLR	NC				10.00						26	10	22	51	7	27	30.31	30.51
07	FEW	050				10.00						44	31	39	60	9	28	29.62	29.81	07	CLR	NC				10.00						25	10	21	53	7	32	30.35	30.55
10	SCT	200				10.00						51	28	41	41	17	31	29.70	29.89	10	CLR	NC				10.00						35	9	27	34	14	29	30.38	30.58
13	SCT	060				10.00						53	25	41	34	13	30	29.72	29.91	13	CLR	NC				10.00						39	9	30	29	18	31	30.31	30.51
16	SCT	065				10.00						51	25	40	36	17	29	29.77	29.96	16	BKN	250				10.00						39	8	29	28	7	32	30.29	30.49
19	CLR	NC				10.00						45	25	37	46	7	28	29.84	30.03	19	OVC	200				10.00						34	17	28	50	3	15	30.31	30.51
22	CLR	NC				10.00						42	25	35	51	8	30	29.89	30.09	22	BKN	250				10.00						30	15	25	54	0	00	30.31	30.51
SUNRISE: 0651 NOV 17						SUNSET: 1658						SUNRISE: 0657 NOV 23						SUNSET: 1654																					
01	CLR	NC				10.00						37	27	33	67	7	27	29.92	30.11	01	BKN	250				10.00						27	15	23	61	5	06	30.32	30.52
04	CLR	NC				10.00						36	26	32	67	5	29	29.95	30.14	04	BKN	250				10.00						27	17	24	66	0	00	30.33	30.53
07	BKN	200				10.00						35	26	32	70	0	00	29.98	30.17	07	CLR	NC				10.00						24	16	22	71	0	00	30.34	30.54
10	SCT	250				10.00						45	27	38	49	6	22	29.97	30.16	10	FEW	150				10.00						36	14	29	40	5	12	30.36	30.56
13	OVC	250				10.00						48	25	39	41	8	28	29.88	30.08	13	CLR	NC				10.00						44	13	33	28	3	19	30.28	30.48
16	BKN	250				10.00						48	28	40	46	10	28	29.84	30.04	16	FEW	250				10.00						45	13	34	27	3	19	30.24	30.44
19	FEW	055				10.00						44	29	38	56	6	29	29.86	30.06	19	FEW	250				10.00						34	16	28	48	5	14	30.23	30.43
22	FEW	050				10.00						39	29	35	67	5	36	29.90	30.10	22	FEW	250				10.00						34	21	29	59	3	16	30.22	30.42
SUNRISE: 0652 NOV 18						SUNSET: 1657						SUNRISE: 0658 NOV 24						SUNSET: 1654																					
01	SCT	060				10.00						37	31	35	79	8	34	29.89	30.09	01	FEW	250				10.00						30	20	27	66	3	18	30.20	30.39
04	BKN	090				10.00						34	27	31	76	6	36	29.89	30.09	04	CLR	NC				10.00						30	20	27	66	3	16	30.17	30.36
07	BKN	120				10.00						34																											

RICHMOND, VA NOVEMBER Temperatures



Long-Term (1957-2008) Mean: 49.8
1971-2000 Normal: 49.0

RICHMOND, VA NOVEMBER Precipitation



Long-Term (1957-2008) Mean Monthly Total: 3.12

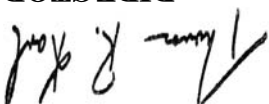
1971-2000 Normal: 3.06



**NOVEMBER 2008
RICHMOND, VA**

LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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