

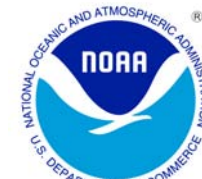


NOVEMBER 2009

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	Temperature °F						Deg Days BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		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					
																			3-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	65	50	58	5	49	50	7	0	RA BR			0.0	1.08	29.88	30.10	10.1	03	10.3	35	05	28	04	01	
02	59	46	53	0	46	49	12	0				0.0	0.00	29.96	30.15	6.1	02	6.5	18	03	14	04	02	
03	68	41	55	3	41	47	10	0	BR			0.0	0.00	29.94	30.15	1.2	35	3.1	16	03	13	03	03	
04	59	37	48	-4	35	43	17	0				0.0	0.00	30.11	30.30	1.3	07	3.5	12	20	10	20	04	
05	62	40	51	-1	34	43	14	0				0.0	0.00	29.99	30.19	4.9	34	6.2	24	33	18	34	05	
06	56	35	46	-6	29	39	19	0				0.0	0.00	30.11	30.33	5.2	36	5.7	26	32	18	34	06	
07	64	33*	49	-2	34	42	16	0				0.0	0.00	30.09	30.27	6.7	21	6.9	21	21	18	23	07	
08	76*	41	59	8	42	49	6	0				0.0	0.00	30.06	30.28	1.4	19	1.9	9	18	8	22	08	
09	73	43	58	7	46	52	7	0	BR HZ			0.0	0.00	30.19	30.38	1.2	19	1.3	11	20	9	20	09	
10	68	53	61	10	55	57	4	0	RA BR HZ			0.0	0.31	30.08	30.26	1.6	02	3.2	20	23	13	02	10	
11	56	48	52	2	49	50	13	0	RA BR			0.0	1.54	29.93	30.12	16.7	05	16.8	38	04	30	05	11	
12	50	46	48	-2	47	48	17	0	RA BR			0.0	3.51	29.66	29.86	21.8	03	22.0	40	03	30	03	12	
13	54	47	51	1	48	50	14	0	RA DZ BR			0.0	0.17	29.59	29.79	18.3	03	18.2	39	03	28	02	13	
14	59	51	55	6	52	54	10	0	RA DZ BCFG BR			0.0	0.02	29.70	29.89	10.1	01	10.3	28	03	20	04	14	
15	73	46	60	11	50	53	5	0	MIFG BR			0.0	0.00	29.78	29.99	2.0	32	2.3	17	08	10	33	15	
16	74	49	62	13	49	54	3	0	BCFG BR			0.0	0.00	29.87	30.06	1.5	03	2.2	10	04	8	04	16	
17	63	48	56	7	44	49	9	0	BCFG			0.0	0.00	30.00	30.21	7.1	06	7.5	16	07	13	09	17	
18	64	49	57	8	49	52	8	0	RA			0.0	T	30.09	30.29	8.6	07	9.4	23	08	17	09	18	
19	69	57	63*	14	58	60	2	0	RA BCFG BR			0.0	0.16	29.96	30.13	5.0	11	7.2	26	28	16	12	19	
20	65	44	55	7	45	51	10	0				0.0	0.00	29.93	30.13	4.4	35	6.0	21	03	16	02	20	
21	60	41	51	4	38	44	14	0				0.0	0.00	29.98	30.17	2.5	01	2.7	17	36	13	35	21	
22	60	40	50	3	41	46	15	0	BR			0.0	0.00	30.04	30.25	6.4	05	7.1	18	06	14	06	22	
23	54	49	52	5	48	50	13	0	RA DZ BR			0.0	0.81	30.03	30.21	8.7	04	9.1	20	07	15	05	23	
24	52	48	50	3	48	49	15	0	RA DZ BR			0.0	0.44	29.95	30.14	7.1	01	7.2	18	01	14	01	24	
25	57	46	52	6	49	50	13	0	RA DZ BCFG BR			0.0	0.07	29.83	30.01	1.4	27	2.2	16	27	13	26	25	
26	62	39	51	5	46	48	14	0	TSRA RA FG+ FG MIFG BR			0.0	0.39	29.67	29.83	1.7	07	3.3	17	04	14	01	26	
27	53	38	46	0	31	39	19	0	TS TSRA RA BR			0.0	0.70	29.54	29.76	10.8	32	12.3	43*	36	33*	36	27	
28	56	36	46*	1	27	37	19	0				0.0	0.00	29.75	29.97	6.9	28	8.3	20	30	14	31	28	
29	72	34	53	8	35	45	12	0	RA			0.0	T	29.76	29.95	7.3	22	8.0	23	23	17	23	29	
30	61	40	51	6	42	47	14	0	RA BR			0.0	0.40	29.60	29.80	4.0	26	9.7	32	03	24	04	30	

NOVEMBER 2009
RICHMOND, VA

62.1			43.8			53.0			☼	43.6			48.2			11.7			0.0			< MONTHLY AVERAGES TOTALS >				0.0		9.60		29.90		30.10		4.0		02		7.3		< MONTHLY AVERAGES			
2.4			5.4			4.0				<-----DEPARTURE FROM NORMAL----->																6.54		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3															
DEGREE DAYS									GREATEST 24-HR PRECIPITATION : 3.54 DATE : 12-13									SEA LEVEL PRESSURE																									
MONTHLY									GREATEST 24-HR SNOWFALL : 0.0 DATE :									MAXIMUM : 30.45 09 0808																									
TOTAL DEPARTURE									GREATEST SNOW DEPTH : DATE :									MINIMUM : 29.67 27 0000																									
TOTAL DEPARTURE									NUMBER OF -> DAYS WITH									MAXIMUM TEMP >= 90 : 0			MINIMUM TEMP <= 32 : 0			PRECIPITATION >= 0.01 INCH : 13																			
HEATING : 351 -119 560 -163									MAXIMUM TEMP <= 32 : 0			MINIMUM TEMP <= 0 : 0			PRECIPITATION >= 0.10 INCH : 11																												
COOLING : 0 -6 1569 135									THUNDERSTORMS : 2			HEAVY FOG : 1			SNOWFALL >= 1.0 INCH : 0																												

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
NOVEMBER 2009

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	0.07	0.07	0.02	0.04	0.01	0.01	0.06	0.10	0.22	0.05	0.16	0.09	01	0.14	0.03	T							0.01		01	1.08	1.08	
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													06												06	0.00	0.00	
07													07												07	0.00	0.00	
08													08												08	0.00	0.00	
09													09												09	0.00	0.00	
10													10			T	0.01	0.04	0.07	0.07	0.04	0.05	0.03		10	0.31	0.31	
11	0.04	0.01	0.09	0.05	0.04	0.05	0.10	0.08	0.07	0.06	0.06	0.05	11	0.08	0.11	0.10	0.10	0.06	0.03	0.08	0.08	0.09	0.07	0.03	0.01	11	1.54	1.54
12	0.02	0.01	0.04	0.05	0.09	0.06	0.07	0.09	0.16	0.26	0.24	0.07	12	0.06	0.16	0.19	0.20	0.13	0.12	0.36	0.34	0.29	0.28	0.19	0.03	12	3.51	3.51
13	0.05	0.01	T	T	T	0.01	T	T	T	T	0.01	0.03	13	0.03	0.01	0.01	0.01	T	T	T	T	T	T	T	13	0.17	0.17	
14	T	T	0.01	T	T	T	T	0.01	T				14												14	0.02	0.02	
15													15												15	0.00	0.00	
16													16												16	0.00	0.00	
17													17												17	0.00	0.00	
18													18												18	T	T	
19			T	T		T	T					T	19	0.01		T	0.01					0.14	T		19	0.16	0.16	
20													20												20	0.00	0.00	
21													21												21	0.00	0.00	
22													22												22	0.00	0.00	
23						0.01	0.04	T	0.01	0.03	0.01	0.08	23	0.03	0.04	0.19	0.08	0.06	0.06	0.07	0.02	T	0.06	0.01	0.01	23	0.81	0.81
24	0.02	0.01	0.04	0.23	0.04	0.02	T	T				T	24	T					T	T	T	0.01	0.02	0.03	0.02	24	0.44	0.44
25	T	0.02	T	0.01	0.01	0.01	0.02	T	T	T			25												25	0.07	0.07	
26													26												26			
27	0.29	0.22	0.10	0.05	0.01	T							27		0.03									0.10	0.29	26	0.39	0.39
28													28												27	0.70	0.70	
29													29												28	0.00	0.00	
30												T	30			T	0.08	0.18	0.10	0.04	T	T		29	T	T		
																									30	0.40	0.40	

* 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)	0.12	0.18	0.22	0.25	0.30	0.39	0.46	0.54	0.59	0.70	0.84	0.99
Ending Date	27	27	27	27	27	27	27	27	27	12	12	12
Ending Time (Hr/Min)	0000	0003	0003	0007	0023	0033	0045	0049	0111	2001	2031	2104

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 2009

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							2.50	10.00	
02							10.00	10.00	
03							4.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							4.00	10.00	
10							3.00	10.00	
11							2.00	5.00	
12							2.50	7.00	
13							2.00	10.00	
14							2.50	10.00	
15							2.00	10.00	
16							6.00	10.00	
17							5.00	10.00	
18							10.00	10.00	
19							4.00	10.00	
20							9.00	10.00	
21							10.00	10.00	
22							6.00	10.00	
23							2.00	10.00	
24							1.50	10.00	
25							1.50	10.00	
26							0.00	10.00	
27							3.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							2.00	10.00	
MONTHLY AVGS							5.48	9.73	
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		
1			13				11		

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
NOVEMBER 2009

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
SUNRISE: 0647						NOV 13						SUNSET: 1700																	
01	OVC	015			6.00	RA BR	48	46	47	93	24	03	29.57	29.76	01	OVC	050			10.00	-RA	57	52	54	83	9	09	30.04	30.23
04	OVC	014			10.00		49	47	48	93	18	03	29.58	29.77	04	OVC	060			10.00		59	55	57	87	9	10	30.01	30.20
07	OVC	015			3.00	-RA BR	49	45	47	86	18	01	29.61	29.81	07	BKN	090			10.00		60	56	58	87	7	09	30.01	30.20
10	OVC	013			2.50	-RA BR	51	47	49	86	18	02	29.63	29.82	10	OVC	048			10.00		65	57	60	75	14	12	30.00	30.19
13	OVC	013			2.00	-RA BR	53	50	51	90	17	02	29.57	29.77	13	OVC	013			10.00		67	61	63	81	7	13	29.92	30.11
16	OVC	015			2.00	-RA BR	54	50	52	86	20	03	29.58	29.77	16	BKN	050			10.00		68	61	64	78	5	11	29.89	30.08
19	OVC	016			2.00	-DZ BR	53	50	51	90	18	02	29.63	29.82	19	OVC	080			7.00	BCFG	63	61	62	93	3	07	29.89	30.08
22	OVC	017			2.00	-DZ BR	54	51	52	90	17	03	29.63	29.82	22	BKN	070			9.00		63	60	61	90	5	19	29.85	30.04
SUNRISE: 0648						NOV 14						SUNRISE: 0654						NOV 19						SUNSET: 1656					
01	OVC	008			10.00		54	51	52	90	14	02	29.61	29.80	01	OVC	011			10.00		61	58	59	90	8	30	29.85	30.05
04	OVC	008			6.00	-DZ BR	54	51	52	90	14	01	29.65	29.84	04	OVC	007			10.00		58	55	56	90	7	30	29.88	30.07
07	OVC	010			10.00		54	51	52	90	11	35	29.68	29.88	07	OVC	031			10.00		55	51	53	86	9	31	29.94	30.13
10	OVC	008			10.00		57	53	55	87	11	02	29.70	29.90	10	SCT	250			10.00		57	42	50	57	11	01	29.97	30.16
13	OVC	010			10.00		58	53	55	84	11	36	29.69	29.88	13	FEW	250			10.00		63	42	52	46	8	35	29.93	30.12
16	OVC	014			10.00		59	53	56	81	11	36	29.70	29.89	16	FEW	250			10.00		63	40	52	43	0	00	29.92	30.11
19	BKN	015			10.00		58	52	55	81	8	02	29.74	29.93	19	SCT	250			10.00		52	42	47	69	3	03	29.95	30.15
22	BKN	012			10.00		56	52	54	87	5	01	29.75	29.95	22	CLR	NC			10.00		44	40	42	86	5	04	29.97	30.16
SUNRISE: 0649						NOV 15						SUNRISE: 0655						NOV 20						SUNSET: 1656					
01	FEW	001			7.00	BCFG	50	48	49	93	0	00	29.75	29.94	01	CLR	NC			10.00		46	37	42	71	7	02	29.97	30.16
04	CLR	NC			3.00	BR	49	47	48	93	5	33	29.77	29.96	04	CLR	NC			10.00		42	36	39	79	0	00	29.96	30.15
07	SCT	250			6.00	BR	48	46	47	93	3	34	29.79	29.99	07	BKN	250			10.00		43	37	40	79	3	35	29.99	30.19
10	BKN	250			10.00		59	53	56	81	5	32	29.83	30.02	10	OVC	250			10.00		54	38	46	55	0	00	30.02	30.21
13	BKN	250			10.00		71	53	61	53	3	VR	29.78	29.97	13	OVC	250			10.00		59	38	49	46	7	04	29.97	30.16
16	SCT	250			10.00		72	51	60	48	3	33	29.77	29.96	16	BKN	200			10.00		58	39	49	49	7	03	29.96	30.15
19	BKN	250			10.00		57	50	53	78	0	00	29.81	30.01	19	BKN	250			10.00		48	39	44	71	0	00	29.99	30.18
22	SCT	250			10.00		52	49	50	90	0	00	29.83	30.02	22	SCT	250			10.00		44	38	41	80	0	00	30.00	30.19
SUNRISE: 0650						NOV 16						SUNRISE: 0656						NOV 21						SUNSET: 1655					
01	CLR	NC			10.00	BCFG	51	48	49	90	0	00	29.85	30.04	01	FEW	250			10.00		44	38	41	80	0	00	30.00	30.19
04	CLR	NC			10.00	BCFG	49	46	48	89	0	00	29.85	30.04	04	BKN	250			9.00		42	38	40	86	6	02	30.02	30.21
07	CLR	NC			10.00		50	46	48	86	0	00	29.88	30.07	07	SCT	250			6.00	BR	41	38	40	89	8	02	30.06	30.25
10	FEW	250			10.00		65	52	58	63	7	02	29.90	30.09	10	FEW	250			10.00		52	43	48	72	9	05	30.10	30.29
13	FEW	250			10.00		72	51	60	48	0	00	29.85	30.05	13	BKN	250			10.00		59	42	51	54	6	07	30.05	30.24
16	FEW	050			10.00		72	51	60	48	3	05	29.84	30.03	16	OVC	250			10.00		56	42	49	60	9	06	30.07	30.26
19	CLR	NC			10.00		61	50	55	67	6	09	29.87	30.06	19	OVC	040			10.00		52	43	48	72	9	07	30.08	30.28
22	CLR	NC			6.00	BR	54	51	52	90	0	00	29.90	30.09	22	OVC	150			10.00		51	44	48	77	9	06	30.06	30.25
SUNRISE: 0651						NOV 17						SUNRISE: 0657						NOV 22						SUNSET: 1655					
01	BKN	250			6.00	BCFG	51	47	49	86	6	05	29.93	30.12	01	OVC	050			10.00		50	44	47	80	3	36	30.10	30.29
04	FEW	250			5.00	BCFG	48	44	46	86	6	04	29.94	30.14	04	OVC	010			10.00		50	44	47	80	7	05	30.05	30.25
07	BKN	250			10.00		49	42	46	77	9	05	30.00	30.19	07	OVC	005			3.00	-RA BR	50	47	49	90	10	04	30.06	30.25
10	BKN	250			10.00		56	44	50	64	6	09	30.04	30.23	10	OVC	006			2.00	-RA BR	53	50	51	90	9	05	30.07	30.26
13	OVC	250			10.00		63	42	52	46	10	04	30.02	30.21	13	OVC	008			2.00	-RA BR	53	51	52	93	11	05	30.00	30.19
16	BKN	250			10.00		59	43	51	56	9	08	30.02	30.21	16	OVC	018			2.00	-RA BR	52	50	51	93	10	04	29.97	30.16
19	BKN	250			10.00		53	45	49	74	6	07	30.06	30.25	19	OVC	007			2.00	-RA BR	51	49	50	93	9	03	29.98	30.17
22	OVC	250			10.00		50	45	48	83	7	06	30.09	30.28	22	OVC	005			2.00	RA BR	50	48	49	93	8	35	29.97	30.16
SUNRISE: 0652						NOV 18						SUNRISE: 0658						NOV 23						SUNSET: 1654					
01	OVC	250			10.00		49	44	47	83	9	04	30.09	30.28	01	OVC	005			2.00	-DZ BR	49	47	48	93	9	35	29.94	30.14
04	OVC	012			10.00		50	44	47	80	8	03	30.10	30.30	04	OVC	015			2.00	RA BR	49	46	48	89	9	36	29.94	30.14
07	BKN	150			10.00		50	46	48	86	9	04	30.13	30.33	07	OVC	009			6.00	-DZ BR	49	46	48	89	7	01	29.97	30.16
10	BKN	150			10.00		59	50	54	72	9	07	30.14	30.33	10	OVC	005			10.00		51	48	49	90	8	36	30.00	30.19
13	OVC	024			10.00		63	52	57	68	11	08	30.09	30.29	13	OVC	005			10.00		52	49	50	90	9	01	29.95	30.14
16	OVC	026			10.00		62	51	56	67	15	09	30.09	30.28	16	OVC	005			2.00	BR	52	49	50	90	8	01	29.94	30.13
19	OVC	080			10.00		59	50	54	72	11	08	30.08	30.28	19	OVC	004			1.50	-DZ BR	51	50	50	96	6	03	29.95	30.14
22	OVC	080			10.00		58	51	54	78	10	10	30.08	30.27	22	OVC	008			1.50	-RA BR	51	49	50	93	3	01	29.94	30.13

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
NOVEMBER 2009 KRIC

WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)				
			Observation Time (LST)	Eff Cl'd Amt Oktas		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL		
SUNRISE: 0659 NOV 25 SUNSET: 1653															
01	OVC	003			1.50	-DZ	BR	51	50	50	96	3	01	29.90	30.09
04	OVC	003			1.50	-DZ	BR	51	50	50	96	0	00	29.86	30.06
07	OVC	007			1.50	-DZ	BR	51	50	50	96	0	00	29.86	30.05
10	OVC	006			4.00		BR	53	51	52	93	5	33	29.86	30.05
13	OVC	150			10.00			56	51	53	83	9	26	29.80	29.99
16	OVC	250			10.00			56	48	52	75	6	25	29.77	29.97
19	OVC	250			10.00			51	48	49	90	0	00	29.77	29.96
22	BKN	250			9.00	BCFG		47	45	46	93	0	00	29.78	29.98
SUNRISE: 0700 NOV 26 SUNSET: 1653															
01	SCT	250			2.00	MIFG		46	44	45	93	0	00	29.76	29.95
04	VV	001			0.25	FG		45	44	45	96	0	00	29.74	29.93
07	SCT	250			0.50	FG		41	40	41	96	0	00	29.73	29.93
10	VV	001			0.00	FG		47	46	47	96	0	00	29.72	29.92
13	SCT	005			10.00			58	49	53	72	0	00	29.64	29.83
16	SCT	032			10.00			60	49	54	67	6	09	29.56	29.75
19	BKN	041			8.00			51	47	49	86	3	05	29.55	29.75
22	OVC	012			7.00			51	48	49	90	8	04	29.50	29.69
SUNRISE: 0701 NOV 27 SUNSET: 1653															
01	OVC	035			3.00	RA	BR	44	40	42	86	22	01	29.50	29.69
04	OVC	025			6.00	-RA	BR	40	36	38	86	11	36	29.53	29.72
07	SCT	110			10.00			40	37	39	89	6	26	29.56	29.75
10	FEW	120			10.00			48	36	43	63	11	30	29.55	29.74
13	BKN	060			10.00			53	29	43	40	17	30	29.49	29.68
16	SCT	065			10.00			50	26	40	39	22	31	29.54	29.74
19	FEW	065			10.00			44	24	36	45	8	32	29.62	29.82
22	CLR	NC			10.00			41	22	34	47	14	31	29.68	29.87
SUNRISE: 0702 NOV 28 SUNSET: 1652															
01	CLR	NC			10.00			39	23	33	53	11	30	29.68	29.87
04	CLR	NC			10.00			37	24	32	59	10	28	29.72	29.91
07	FEW	250			10.00			37	25	33	62	10	29	29.77	29.96
10	FEW	250			10.00			45	26	37	47	10	31	29.82	30.01
13	CLR	NC			10.00			53	27	42	37	7	29	29.76	29.96
16	FEW	250			10.00			56	27	44	33	7	28	29.76	29.96
19	CLR	NC			10.00			47	30	40	52	6	16	29.80	29.99
22	CLR	NC			10.00			40	29	36	65	7	22	29.81	30.00
SUNRISE: 0703 NOV 29 SUNSET: 1652															
01	CLR	NC			10.00			40	29	36	65	6	20	29.78	29.98
04	CLR	NC			10.00			37	29	34	73	0	00	29.79	29.98
07	FEW	250			10.00			35	30	33	82	3	19	29.81	30.00
10	SCT	250			10.00			55	35	46	47	9	28	29.83	30.03
13	CLR	NC			10.00			70	36	53	29	9	23	29.75	29.94
16	SCT	250			10.00			68	38	53	33	7	20	29.71	29.90
19	BKN	250			10.00			61	41	51	48	11	20	29.71	29.90
22	BKN	110			10.00			60	41	51	50	10	22	29.68	29.87
SUNRISE: 0704 NOV 30 SUNSET: 1652															
01	FEW	130			10.00			55	40	48	57	8	22	29.65	29.84
04	SCT	250			10.00			53	40	47	62	9	22	29.60	29.80
07	BKN	110			10.00			53	41	47	64	8	21	29.59	29.78
10	OVC	250			10.00			58	41	50	53	15	24	29.58	29.78
13	OVC	075			10.00			59	43	51	56	10	24	29.52	29.71
16	OVC	050			10.00	-RA		56	48	52	75	6	25	29.50	29.69
19	OVC	048			2.00	RA	BR	46	43	45	89	13	02	29.63	29.83
22	FEW	050			10.00			44	38	41	80	13	36	29.73	29.93

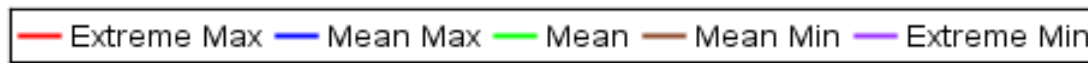
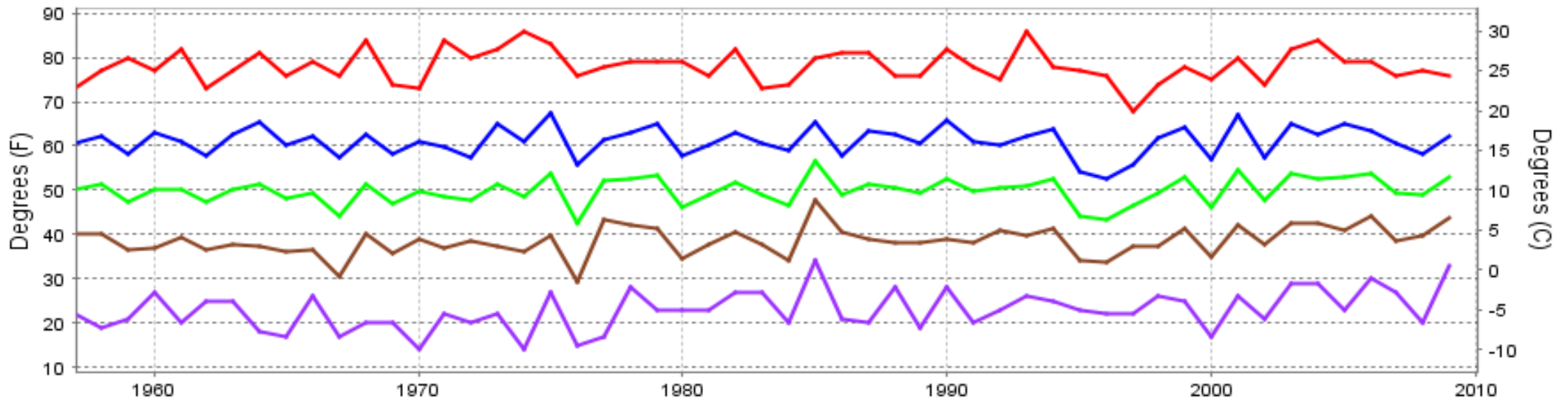
HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)				
			Observation Time (LST)	Eff Cl'd Amt Oktas		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL		

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, W = 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.

SUMMARY BY HOUR

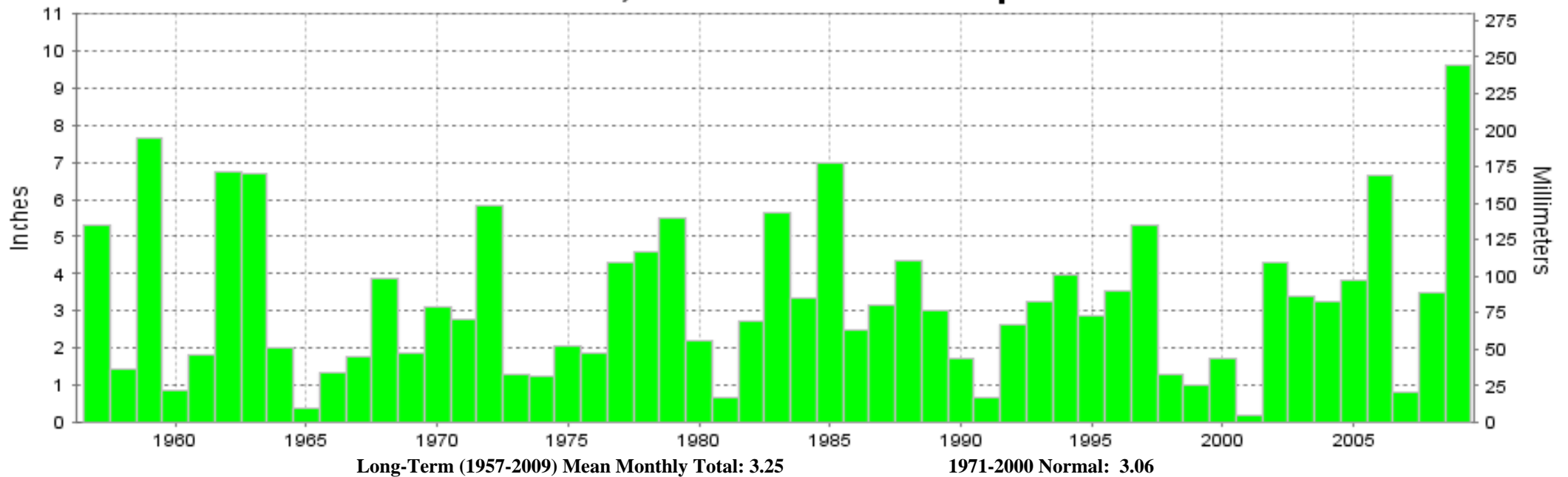
HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)			
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			49	43	46	81	29.90	30.09	7.78	7	5	02
02			48	43	46	82	29.90	30.09	7.52	7	5	03
03			48	43	46	83	29.90	30.09	7.44	8	5	03
04			47	42	45	84	29.90	30.10	7.66	6	6	02
05			47	42	45	84	29.91	30.10	7.59	6	5	02
06			47	42	44	85	29.92	30.11	7.56	6	6	02
07			46	42	44	85	29.93	30.12	7.52	6	5	02
08			48	43	46	83	29.94	30.13	7.25	6	5	03
09			52	44	48	77	29.95	30.14	7.96	8	5	03
10			55	44	50	70	29.94	30.14	8.05	8	5	03
11			57	44	51	66	29.94	30.13	8.66	8	5	01
12			59	44	51	62	29.91	30.10	8.73	8	4	01
13			60	44	52	60	29.89	30.08	8.83	9	4	36
14			61	44	52	59	29.88	30.07	9.00	9	4	36
15			61	44	52	59	29.87	30.07	8.72	9	4	01
16			60	44	52	60	29.87	30.07	8.72	9	4	02
17			57	44	51	65	29.88	30.07	8.42	7	5	03
18			55	44	50	70	29.89	30.08	8.38	7	5	03
19			53	44	49	74	29.90	30.09	8.07	7	6	04
20			52	44	48	76	29.91	30.10	8.40	6	6	03
21			52	44	48	76	29.91	30.10	8.27	7	5	03
22			50	43	47	79	29.91	30.10	8.27	7	5	02
23			50	43	47	79	29.91	30.10	7.88	6	5	02
24			49	43	46	80	29.91	30.10	8.20	6	5	02

RICHMOND, VA NOVEMBER Temperatures



Long-Term (1957-2009) Mean: 49.9
1971-2000 Normal: 49.0

RICHMOND, VA NOVEMBER Precipitation



Long-Term (1957-2009) Mean Monthly Total: 3.25

1971-2000 Normal: 3.06



NOVEMBER 2009
RICHMOND, VA

LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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