



FEBRUARY 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 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			
																		SPEED 20	DIR 21	SPEED 22	DIR 23			
01	64	28	46	9	24	37	19	0			0.0	0.00	29.87	30.06	11.8	22	12.1	29	24	24	25	01		
02	63	33	48	11	30	40	17	0	RA		0.0	T	29.76	29.95	1.8	28	9.6	35	02	29	03	02		
03	43	28	36	-1	26	32	29	0	RA SN BR		0.3	0.10	29.68	29.86	9.3	34	10.3	26	32	22	32	03		
04	35	25	30	-7	11	24	35	0	SN		T	T	29.92	30.11	12.2	35	12.4	30	35	25	35	04		
05	29	16	23*	-14	2	17	42	0			0.0	0.00	30.24	30.46	6.9	35	8.2	30	30	18	36	05		
06	50	14*	32	-5	13	25	33	0			0.0	0.00	30.23	30.43	3.2	22	3.8	18	23	14	25	06		
07	69	29	49	12	28	39	16	0			0.0	0.00	30.13	30.31	6.2	21	6.7	28	23	22	23	07		
08	72	48	60	22	35	47	5	0			0.0	0.00	29.95	30.16	6.7	28	9.4	29	30	22	29	08		
09	55	34	45	7	27	38	20	0			0.0	0.00	30.19	30.40	3.5	15	4.7	14	10	10	22	09		
10	70	38	54	15	43	49	11	0			0.0	0.00	30.04	30.22	7.8	22	8.9	39	24	30	24	10		
11	72*	52	62*	23	50	56	3	0	RA		0.0	T	29.78	29.92	15.6	23	16.1	44	25	35	23	11		
12	67	50	59	20	27	45	6	0			0.0	0.00	29.57	29.78	18.4	29	20.1	52*	26	39*	31	12		
13	62	32	47	8	22	38	18	0			0.0	0.00	29.80	30.02	2.7	32	7.5	29	33	23	32	13		
14	56	28	42	3	26	35	23	0			0.0	0.00	29.78	29.97	1.7	11	4.6	21	04	15	03	14		
15	48	30	39	-1	21	33	26	0			0.0	0.00	29.91	30.13	7.3	03	8.0	25	03	20	02	15		
16	43	30	37	-3	15	29	28	0			0.0	0.00	30.01	30.22	11.2	36	11.5	30	33	22	36	16		
17	45	25	35	-5	13	28	30	0			0.0	0.00	30.10	30.29	2.3	36	6.7	18	32	14	01	17		
18	51	32	42	2	35	40	23	0	RA SN BR		T	0.26	29.59	29.83	11.2	21	11.9	26	20	21	20	18		
19	56	30	43	3	27	39	22	0	BR		0.0	0.00	29.39	29.62	12.6	30	14.4	38	27	26	34	19		
20	41	25	33	-8	5	25	32	0			0.0	0.00	29.82	30.05	10.2	30	10.4	26	29	20	29	20		
21	49	18	34	-7	12	28	31	0			0.0	0.00	30.08	30.27	5.0	19	6.2	22	20	17	20	21		
22	44	30	37	-4	24	34	28	0	RA SN BR UP		T	0.06	29.86	30.07	4.5	30	10.0	35	33	29	33	22		
23	41	26	34	-8	8	25	31	0			0.0	0.00	30.12	30.33	12.3	33	13.0	32	30	24	32	23		
24	43	19	31	-11	7	24	34	0			0.0	0.00	30.24	30.44	5.1	34	5.4	22	02	15	34	24		
25	53	20	37	-5	14	29	28	0			0.0	0.00	30.24	30.44	4.0	19	4.4	25	22	14	20	25		
26	66	31	49	7	32	42	16	0			0.0	0.00	30.12	30.30	8.2	21	8.8	21	22	17	22	26		
27	69	48	59	16	46	52	6	0	RA		0.0	T	29.90	30.07	14.1	22	14.7	38	21	30	23	27		
28	54	33	44	1	35	39	21	0	RA BR		0.0	0.32	29.90	30.10	9.8	04	10.4	28	04	22	04	28		
										< MONTHLY AVERAGES TOTALS >		0.3	0.74	29.94	30.14	3.7	28	9.7	< MONTHLY AVERAGES					
										<-----DEPARTURE FROM NORMAL ----->		-2.24		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										
DEGREE DAYS										GREATEST 24-HR PRECIPITATION : 0.32 DATE : 28				SEA LEVEL PRESSURE				DATE		TIME				
MONTHLY										GREATEST 24-HR SNOWFALL : 0.3 DATE : 03				MAXIMUM : 30.53				05		1124				
TOTAL DEPARTURE										GREATEST SNOW DEPTH : DATE :				MINIMUM : 29.49				19		0654				
SEASON TO DATE										NUMBER OF -> DAYS WITH		MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 20		PRECIPITATION >= 0.01 INCH : 4								
HEATING : 633 -72 2880 -169										THUNDERSTORMS : 0		MAXIMUM TEMP <= 32 : 1		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH : 3								
COOLING : 0 -1 0 -1														HEAVY FOG : 0		SNOWFALL >= 1.0 INCH : 0								

**FEBRUARY 2009
RICHMOND, VA**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
FEBRUARY 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													01												01	0.00	0.00	
02													02												02	T	T	
03	0.01	0.02	0.03	0.02	0.02	T	T	T	T	T			03						T	T				03	0.10	0.10		
04													04				T							04	T	T		
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											10	0.00	0.00		
11													11											11	T	T		
12													12											12	0.00	0.00		
13													13											13	0.00	0.00		
14													14											14	0.00	0.00		
15													15											15	0.00	0.00		
16													16											16	0.00	0.00		
17													17											17	0.00	0.00		
18								0.02	0.07	0.06	0.04	0.02	18	T	T	0.03	0.01		T	0.01	T		18	0.26	0.26			
19													19											19	0.00	0.00		
20													20											20	0.00	0.00		
21													21											21	0.00	0.00		
22									T	0.04	0.01	T	22	T	T	0.01							22	0.06	0.06			
23													23											23	0.00	0.00		
24													24											24	0.00	0.00		
25													25											25	0.00	0.00		
26													26											26	0.00	0.00		
27													27				T				T		27	T	T			
28													28	0.01	0.01	T	T	0.05	0.02	0.03	0.03	0.06	0.03	0.07	0.01	0.32	0.32	

* 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)	0.02	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.13	0.14	0.17	0.18
Ending Date	28	28	28	28	28	28	28	28	18	18	18	28
Ending Time (Hr/Min)	2212	2212	2212	2219	2219	2219	2238	2238	1010	1023	1023	2238

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 FEBRUARY 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							10.00	10.00	
02							10.00	10.00	
03							2.00	10.00	
04							9.00	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							3.00	10.00	
19							5.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							7.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							3.00	10.00	
MONTHLY AVGS							8.89	10.00	
SUNSHINE (Minutes)									
Total : 0					Possible : 18192				
Percent Possible : 0									
NUMBER OF DAYS WITH : SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
MINIMUM VISIBILITY (MILES)									
<= .25			<= 3.0				>= 7.0		
0			3				24		

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
FEBRUARY 2009 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
		SUNRISE: 0713 FEB 01 SUNSET: 1733												SUNRISE: 0707 FEB 07 SUNSET: 1740															
01	CLR	NC			10.00		31	15	26	51	11	21	29.91	30.11	01	CLR	NC			10.00		34	18	29	52	5	18	30.19	30.38
04	CLR	NC			10.00		29	17	25	61	8	21	29.89	30.09	04	CLR	NC			10.00		32	18	27	56	5	18	30.18	30.37
07	CLR	NC			10.00		32	21	28	64	8	22	29.90	30.09	07	FEW	250			10.00		30	19	26	64	3	18	30.21	30.41
10	CLR	NC			10.00		48	23	38	37	15	24	29.91	30.11	10	FEW	250			10.00		43	24	36	47	3	21	30.23	30.42
13	FEW	250			10.00		60	25	45	26	14	24	29.83	30.03	13	FEW	250			10.00		60	32	47	35	8	21	30.12	30.32
16	SCT	250			10.00		62	27	47	26	16	24	29.81	30.00	16	FEW	250			10.00		69	36	53	30	16	23	30.02	30.21
19	BKN	250			10.00		51	28	41	41	10	21	29.83	30.03	19	BKN	250			10.00		53	33	44	47	8	20	30.01	30.21
22	SCT	250			10.00		49	28	40	44	14	22	29.85	30.04	22	BKN	250			10.00		49	34	42	56	8	22	30.00	30.19
		SUNRISE: 0712 FEB 02 SUNSET: 1734												SUNRISE: 0706 FEB 08 SUNSET: 1741															
01	FEW	250			10.00		42	28	36	58	6	22	29.85	30.04	01	BKN	250			10.00		54	31	44	42	9	24	29.96	30.15
04	FEW	250			10.00		33	27	31	79	6	21	29.81	30.00	04	SCT	250			10.00		51	30	42	45	7	24	29.93	30.12
07	FEW	200			10.00		37	29	34	73	5	20	29.80	29.99	07	BKN	200			10.00		49	31	41	50	8	24	29.94	30.14
10	SCT	250			10.00		49	32	42	52	7	23	29.79	29.99	10	SCT	200			10.00		62	37	50	40	14	25	29.96	30.15
13	SCT	250			10.00		61	33	48	35	8	19	29.69	29.88	13	SCT	060			10.00		71	43	56	37	15	31	29.93	30.12
16	OVC	250			10.00		62	30	47	30	13	25	29.66	29.85	16	SCT	070			10.00		71	40	55	33	13	31	29.93	30.12
19	OVC	150			10.00		49	29	41	46	23	03	29.71	29.91	19	FEW	250			10.00		65	34	50	32	5	30	29.98	30.17
22	OVC	055			10.00		41	29	36	62	20	02	29.74	29.93	22	CLR	NC			10.00		53	32	44	45	7	04	30.05	30.25
		SUNRISE: 0711 FEB 03 SUNSET: 1735												SUNRISE: 0705 FEB 09 SUNSET: 1742															
01	OVC	030			7.00	-RASN	35	33	34	92	13	01	29.71	29.90	01	CLR	NC			10.00		47	32	41	56	3	05	30.13	30.32
04	OVC	014			2.00	-SN BR	33	31	32	92	10	01	29.68	29.88	04	CLR	NC			10.00		37	31	35	79	3	13	30.17	30.37
07	OVC	050			6.00	-SN BR	33	31	32	92	9	35	29.66	29.86	07	CLR	NC			10.00		37	27	33	67	0	00	30.23	30.42
10	OVC	065			10.00		35	29	33	79	10	34	29.66	29.86	10	BKN	250			10.00		46	24	37	42	6	08	30.29	30.48
13	BKN	250			10.00		40	24	34	53	16	34	29.63	29.82	13	OVC	250			10.00		52	22	40	31	7	VR	30.24	30.43
16	BKN	060			10.00		40	19	32	43	10	32	29.61	29.80	16	OVC	250			10.00		54	25	42	33	6	18	30.18	30.38
19	OVC	085			7.00	-SN	39	21	32	48	11	28	29.69	29.88	19	OVC	250			10.00		46	28	39	50	5	14	30.20	30.39
22	BKN	075			10.00		31	26	29	82	3	01	29.72	29.92	22	OVC	250			10.00		43	29	37	58	7	16	30.17	30.37
		SUNRISE: 0710 FEB 04 SUNSET: 1736												SUNRISE: 0704 FEB 10 SUNSET: 1743															
01	FEW	110			10.00		28	16	24	61	5	04	29.74	29.94	01	OVC	250			10.00		41	33	38	73	6	15	30.15	30.35
04	FEW	100			10.00		27	10	22	49	13	36	29.78	29.98	04	OVC	250			10.00		39	34	37	82	6	15	30.12	30.32
07	SCT	250			10.00		26	9	21	48	9	35	29.83	30.03	07	OVC	250			10.00		42	37	40	83	3	19	30.09	30.29
10	FEW	100			10.00		30	11	24	45	20	35	29.89	30.09	10	OVC	250			10.00		54	45	49	72	9	23	30.09	30.29
13	OVC	049			10.00		32	11	26	42	20	36	29.90	30.10	13	OVC	250			10.00		67	50	58	55	15	24	29.99	30.18
16	OVC	250			10.00		31	15	26	51	15	36	29.94	30.14	16	OVC	250			10.00		69	47	57	46	9	24	29.95	30.15
19	FEW	060			10.00		29	12	24	49	8	33	30.03	30.22	19	OVC	200			10.00		62	47	54	58	8	21	29.95	30.14
22	FEW	085			10.00		27	10	22	49	10	36	30.08	30.28	22	OVC	250			10.00		60	47	53	62	10	22	29.95	30.14
		SUNRISE: 0709 FEB 05 SUNSET: 1737												SUNRISE: 0703 FEB 11 SUNSET: 1744															
01	CLR	NC			10.00		24	6	19	46	14	34	30.13	30.32	01	OVC	250			10.00		55	47	51	75	9	21	29.93	30.12
04	CLR	NC			10.00		21	5	17	50	9	35	30.18	30.37	04	BKN	250			10.00		53	49	51	86	8	21	29.89	30.09
07	CLR	NC			10.00		16	3	13	56	6	01	30.26	30.46	07	OVC	250			10.00		54	50	52	86	10	21	29.90	30.09
10	CLR	NC			10.00		22	-0	17	38	15	01	30.32	30.53	10	OVC	200			10.00		61	51	56	70	11	22	29.87	30.07
13	FEW	050			10.00		27	-0	20	31	13	36	30.28	30.48	13	OVC	250			10.00		71	50	59	48	26	24	29.76	29.95
16	CLR	NC			10.00		29	-3	21	25	13	34	30.26	30.46	16	OVC	250			10.00		70	51	59	51	24	23	29.67	29.87
19	CLR	NC			10.00		27	-4	20	25	0	00	30.29	30.50	19	BKN	200			10.00		67	50	58	55	17	21	29.56	29.75
22	CLR	NC			10.00		17	5	14	59	0	00	30.29	30.49	22	BKN	250			10.00		67	50	58	55	24	21	29.42	29.61
		SUNRISE: 0708 FEB 06 SUNSET: 1739												SUNRISE: 0702 FEB 12 SUNSET: 1745															
01	CLR	NC			10.00		17	8	15	68	0	00	30.29	30.50	01	FEW	035			10.00		65	40	52	40	31	27	29.45	29.64
04	CLR	NC			10.00		14	8	13	77	0	00	30.31	30.51	04	CLR	NC			10.00		59	36	48	42	20	25	29.48	29.67
07	SCT	250			10.00		19	11	17	71	6	22	30.27	30.47	07	CLR	NC			10.00		57	36	47	46	15	27	29.53	29.72
10	CLR	NC			10.00		32	10	25	40	7	23	30.27	30.47	10	SCT	250			10.00		62	32	48	32	21	28	29.57	29.76
13	CLR	NC			10.00		43	11	32	27	8	22	30.19	30.39	13	FEW	250			10.00		64	20	46	18	24	30	29.59	29.78
16	CLR	NC			10.00		50	14	37	24	7	25	30.15	30.35	16	FEW	250			10.00		63	18	45	17	22	30	29.60	29.80
19	SCT	250			10.00		37	17	30	44	0	00	30.18	30.37	19	FEW	250			10.00		56	19	41	23	20	31	29.69	29.89
22	CLR	NC			10.00		35	18	29	50	5	16	30.19	30.39	22	CLR	NC			10.00		51	20	39	29	13	31	29.74	29.93

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
FEBRUARY 2009 **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: 0701 FEB 13 SUNSET: 1746						SUNRISE: 0654 FEB 19 SUNSET: 1753																							
01	FEW	250			10.00	48	21	38	34	8	25	29.76	29.95	01	FEW	100			10.00	BR	50	47	48	90	15	24	29.34	29.53	
04	FEW	250			10.00	43	23	35	45	6	25	29.78	29.97	04	CLR	NC			9.00		47	46	47	96	7	26	29.31	29.50	
07	CLR	NC			10.00	41	25	35	53	8	25	29.81	30.00	07	CLR	NC			6.00		46	44	45	93	10	25	29.31	29.49	
10	CLR	NC			10.00	53	26	42	35	10	27	29.81	30.01	10	BKN	070			10.00		52	35	44	53	15	29	29.36	29.54	
13	SCT	250			10.00	61	20	44	20	10	32	29.78	29.97	13	BKN	075			10.00		53	22	40	30	21	30	29.36	29.55	
16	BKN	250			10.00	59	21	43	23	16	05	29.79	29.98	16	SCT	075			10.00		49	17	37	28	22	32	29.42	29.61	
19	BKN	250			10.00	46	18	36	33	6	08	29.89	30.08	19	FEW	075			10.00		40	9	30	28	21	32	29.58	29.78	
22	BKN	250			10.00	36	22	31	57	0	00	29.91	30.11	22	CLR	NC			10.00		34	7	26	32	11	33	29.67	29.87	
SUNRISE: 0660 FEB 14 SUNSET: 1747						SUNRISE: 0653 FEB 20 SUNSET: 1754																							
01	FEW	250			10.00	31	21	28	66	0	00	29.90	30.09	01	CLR	NC			10.00		29	7	23	39	9	31	29.72	29.91	
04	SCT	250			10.00	31	21	28	66	5	08	29.90	30.09	04	CLR	NC			10.00		27	7	22	43	8	32	29.76	29.95	
07	FEW	120			10.00	29	22	27	75	0	00	29.87	30.07	07	CLR	NC			10.00		25	5	20	42	10	28	29.81	30.01	
10	BKN	150			10.00	43	23	35	45	7	14	29.84	30.03	10	FEW	050			10.00		31	4	24	32	13	29	29.87	30.07	
13	BKN	110			10.00	50	24	40	36	0	00	29.73	29.92	13	FEW	250			10.00		37	5	28	26	11	31	29.84	30.04	
16	SCT	100			10.00	55	30	44	39	10	21	29.64	29.84	16	FEW	250			10.00		41	4	30	21	15	31	29.83	30.03	
19	FEW	100			10.00	46	31	40	56	5	12	29.64	29.84	19	FEW	250			10.00		37	5	28	26	7	29	29.90	30.10	
22	SCT	075			10.00	40	28	35	62	10	04	29.74	29.94	22	BKN	250			10.00		35	7	27	31	7	28	29.97	30.16	
SUNRISE: 0659 FEB 15 SUNSET: 1748						SUNRISE: 0652 FEB 21 SUNSET: 1755																							
01	CLR	NC			10.00	39	29	35	67	16	03	29.82	30.01	01	SCT	250			10.00		30	8	24	39	6	34	30.01	30.21	
04	CLR	NC			10.00	34	22	30	62	6	04	29.91	30.10	04	CLR	NC			10.00		24	10	20	55	0	00	30.08	30.27	
07	FEW	070			10.00	31	21	28	66	3	02	29.94	30.13	07	FEW	250			10.00		18	12	16	77	3	16	30.15	30.35	
10	SCT	250			10.00	40	22	33	49	13	01	30.00	30.19	10	FEW	250			10.00		38	9	29	30	0	00	30.17	30.37	
13	SCT	250			10.00	46	20	36	36	11	03	29.95	30.14	13	BKN	250			10.00		44	9	33	24	8	17	30.11	30.31	
16	SCT	250			10.00	47	18	36	31	8	33	29.91	30.10	16	BKN	250			10.00		48	9	35	20	11	20	30.04	30.24	
19	OVC	150			10.00	41	19	33	41	5	07	29.94	30.14	19	SCT	250			10.00		43	12	33	28	6	17	30.03	30.23	
22	OVC	110			10.00	38	19	31	46	7	05	29.96	30.16	22	CLR	NC			10.00		39	16	31	39	11	17	30.00	30.20	
SUNRISE: 0658 FEB 16 SUNSET: 1749						SUNRISE: 0650 FEB 22 SUNSET: 1756																							
01	OVC	095			10.00	37	20	31	50	10	02	29.99	30.18	01	SCT	150			10.00		38	23	32	55	11	19	29.96	30.16	
04	OVC	065			10.00	36	16	29	44	7	01	29.99	30.18	04	OVC	095			10.00		38	25	33	60	7	20	29.87	30.07	
07	FEW	065			10.00	31	16	26	54	8	35	29.99	30.19	07	OVC	095			10.00		40	30	36	68	6	18	29.79	29.98	
10	SCT	250			10.00	38	17	31	43	15	36	30.01	30.20	10	OVC	029			7.00	-RA BR	42	38	40	86	8	26	29.78	29.98	
13	BKN	060			10.00	39	11	30	31	16	02	30.01	30.21	13	OVC	100			10.00		44	34	40	68	3	VR	29.75	29.94	
16	OVC	065			10.00	38	11	29	33	16	36	30.02	30.22	16	SCT	080			10.00		41	32	37	70	5	36	29.82	30.01	
19	SCT	060			10.00	35	14	28	42	9	34	30.06	30.26	19	FEW	080			10.00		38	11	29	33	24	32	29.95	30.15	
22	CLR	NC			10.00	33	15	27	48	11	35	30.10	30.29	22	CLR	NC			10.00		33	9	26	36	8	31	30.06	30.25	
SUNRISE: 0656 FEB 17 SUNSET: 1750						SUNRISE: 0649 FEB 23 SUNSET: 1757																							
01	CLR	NC			10.00	31	16	26	54	9	35	30.11	30.31	01	CLR	NC			10.00		30	9	24	41	5	31	30.10	30.30	
04	CLR	NC			10.00	28	15	24	58	7	36	30.13	30.33	04	CLR	NC			10.00		28	9	23	45	8	31	30.10	30.30	
07	FEW	150			10.00	25	14	22	63	7	01	30.16	30.36	07	SCT	250			10.00		27	9	22	47	9	31	30.13	30.33	
10	SCT	250			10.00	36	13	29	39	8	36	30.16	30.36	10	SCT	250			10.00		33	10	26	38	21	33	30.18	30.37	
13	BKN	250			10.00	41	10	31	28	9	31	30.11	30.31	13	BKN	200			10.00		37	7	28	28	11	33	30.12	30.32	
16	SCT	250			10.00	44	9	33	24	0	00	30.03	30.23	16	FEW	250			10.00		41	5	30	22	18	34	30.07	30.27	
19	FEW	250			10.00	36	12	28	37	5	15	30.03	30.22	19	CLR	NC			10.00		34	6	26	31	10	34	30.13	30.33	
22	SCT	250			10.00	31	16	26	54	8	15	30.00	30.20	22	CLR	NC			10.00		29	8	23	41	9	35	30.20	30.40	
SUNRISE: 0655 FEB 18 SUNSET: 1751						SUNRISE: 0648 FEB 24 SUNSET: 1758																							
01	OVC	150			10.00	33	19	28	56	7	17	29.97	30.17	01	CLR	NC			10.00		26	8	21	46	9	34	30.23	30.42	
04	OVC	080			10.00	36	19	30	50	9	19	29.87	30.07	04	CLR	NC			10.00		21	8	18	57	6	01	30.23	30.43	
07	OVC	070			10.00	39	21	32	48	10	21	29.82	30.01	07	CLR	NC			10.00		19	8	16	62	7	36	30.25	30.45	
10	OVC	041	3.00		-SNRA BR	37	34	36	89	17	20	29.77	29.96	10	FEW	250			10.00		31	8	24	38	8	35	30.29	30.49	
13	OVC	012	3.00		-RA BR	43	41	42	93	13	21	29.60	29.79	13	BKN	250			10.00		39	6	29	25	9	34	30.25	30.45	
16	OVC	019	5.00		RA BR	46	44	45	93	11	22	29.48	29.67	16	FEW	250			10.00		43	4	31	20	6	34	30.20	30.40	
19	OVC	010	10.00			49	47	48	93	13	23	29.44	29.62	19	CLR	NC			10.00		36	5	27	27	0	00	30.22	30.42	
22	OVC	030	10.00			50	48	49	93	8	24	29.39	29.57	22	CLR	NC			10.00		27	11	22	51	0	00	30.24	30.45	

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

FEBRUARY 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		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
			SUNRISE: 0646		FEB 25		SUNSET: 1759							
01	CLR	NC				24	13	21	63	0	00	30.27	30.47	
04	CLR	NC				22	13	19	68	0	00	30.26	30.46	
07	BKN	250				22	15	20	74	0	00	30.29	30.49	
10	BKN	250				41	16	32	36	5	23	30.30	30.50	
13	FEW	250				50	11	36	21	10	16	30.24	30.44	
16	FEW	250				52	10	37	18	6	17	30.19	30.38	
19	FEW	250				45	13	34	27	8	18	30.19	30.40	
22	CLR	NC				38	16	31	41	5	19	30.20	30.39	
			SUNRISE: 0645		FEB 26		SUNSET: 1760							
01	CLR	NC				36	20	30	52	6	17	30.18	30.38	
04	OVC	110				37	22	32	55	5	19	30.16	30.36	
07	SCT	250				33	23	29	67	5	20	30.17	30.36	
10	OVC	250				50	28	41	43	11	22	30.16	30.35	
13	OVC	250				63	33	49	33	13	25	30.10	30.29	
16	BKN	250				66	37	52	34	9	21	30.05	30.24	
19	SCT	250				58	40	49	51	7	18	30.05	30.24	
22	BKN	250				53	43	48	69	9	21	30.04	30.24	
			SUNRISE: 0644		FEB 27		SUNSET: 1801							
01	SCT	050				49	42	46	77	10	21	30.02	30.22	
04	CLR	NC				49	42	46	77	8	21	29.97	30.17	
07	OVC	100				51	41	46	69	13	20	29.94	30.13	
10	OVC	250				59	41	50	51	22	20	29.90	30.09	
13	BKN	047				67	47	56	49	22	24	29.85	30.04	
16	OVC	150				66	47	56	51	21	23	29.80	29.99	
19	OVC	110				60	50	55	70	13	24	29.81	30.00	
22	OVC	080				59	51	55	75	8	22	29.82	30.01	
			SUNRISE: 0642		FEB 28		SUNSET: 1802							
01	SCT	095				54	51	52	90	0	00	29.81	30.01	
04	OVC	025				53	51	52	93	7	01	29.85	30.04	
07	OVC	140				46	34	41	63	13	05	29.94	30.14	
10	OVC	038				43	29	37	58	14	02	29.99	30.18	
13	OVC	050				41	33	38	73	11	05	29.96	30.16	
16	OVC	060				39	32	36	76	10	05	29.92	30.11	
19	OVC	040				35	31	33	85	10	06	29.90	30.09	
22	OVC	030				34	31	33	89	13	03	29.88	30.08	

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		VISIBILITY (MILES)	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.

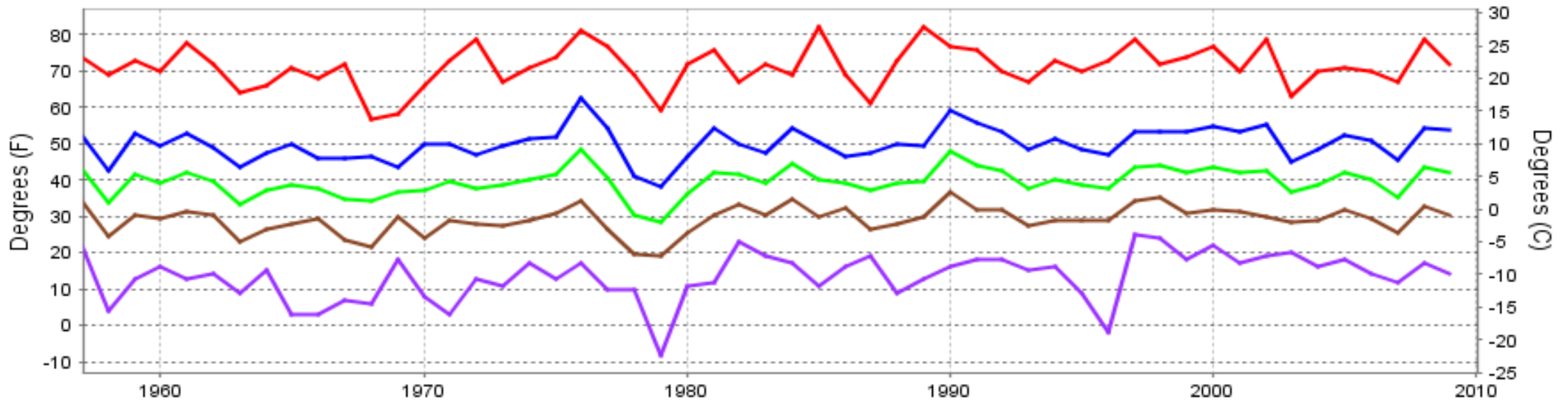
& = Original observation contained additional weather elements.

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			38	24	33	58	29.95	30.15	9.89	8	3	29
02			37	23	32	59	29.95	30.15	9.79	8	2	29
03			36	23	32	61	29.95	30.15	9.64	7	3	29
04			35	23	31	63	29.95	30.15	9.68	7	2	29
05			35	23	31	64	29.95	30.15	9.57	7	3	29
06			35	23	31	64	29.96	30.15	9.57	8	3	29
07			34	23	30	65	29.96	30.16	9.71	7	3	29
08			36	24	32	65	29.98	30.17	9.64	7	4	28
09			40	25	34	56	29.98	30.18	9.71	11	5	28
10			43	24	36	49	29.98	30.18	9.64	12	5	28
11			46	23	38	43	29.97	30.17	9.75	14	6	28
12			48	23	39	40	29.96	30.15	9.75	13	7	28
13			50	23	40	38	29.93	30.12	9.75	13	6	28
14			51	23	40	36	29.90	30.10	10.00	13	7	28
15			52	23	41	36	29.90	30.09	9.96	13	7	28
16			52	23	40	36	29.89	30.09	9.82	12	6	28
17			50	23	40	38	29.90	30.09	9.75	11	5	28
18			47	23	38	41	29.91	30.10	9.71	10	4	28
19			45	23	37	44	29.92	30.12	9.75	9	3	29
20			43	24	36	50	29.93	30.13	9.79	9	2	30
21			42	24	35	51	29.94	30.13	9.86	8	1	31
22			40	24	34	54	29.94	30.14	9.82	9	2	30
23			40	24	34	56	29.95	30.14	9.86	8	2	30
24			39	25	34	58	29.95	30.14	9.75	9	2	29

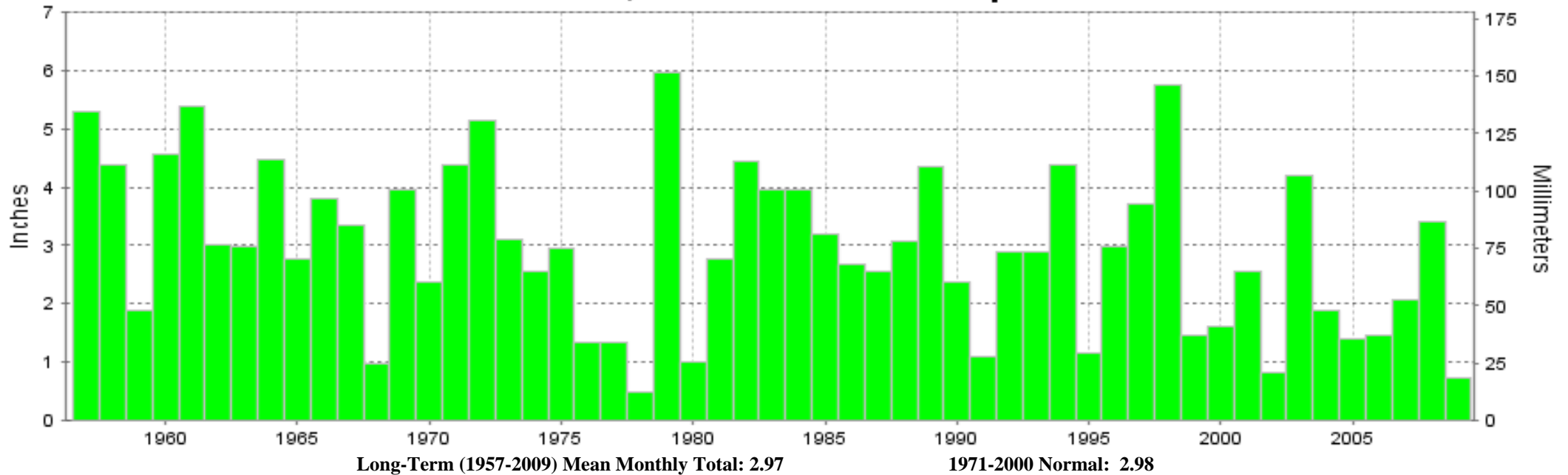
RICHMOND, VA FEBRUARY Temperatures



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

Long-Term (1957-2009) Mean: 39.6
1971-2000 Normal: 39.5

RICHMOND, VA FEBRUARY Precipitation



Long-Term (1957-2009) Mean Monthly Total: 2.97

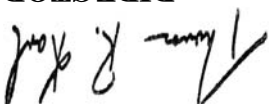
1971-2000 Normal: 2.98



**FEBRUARY 2009
RICHMOND, VA**

LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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