



MAY 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 11	1300 LST 12	2400 LST 13	2400 LST 14	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			3-SEC		2-MIN			
01	81	58	70	9	61	65	0	5	RA BR		0.0	0.04	29.87	30.03	14.0	23	14.3	35	23	28	24	01		
02	81	62	72	11	63	65	0	7	TS TSRA RA BR		0.0	0.06	29.72	29.91	3.3	22	7.6	21	23	15	22	02		
03	70	58	64	3	60	61	1	0	RA DZ BR		0.0	0.21	29.75	29.94	4.4	05	5.4	18	36	17	01	03		
04	72	56	64	3	59	60	1	0	TS TSRA RA FG+ FG BR		0.0	1.09	29.77	29.96	4.9	05	6.1	37	32	18	35	04		
05	59	55	57	-4	55	56	8	0	RA DZ BR		0.0	0.72	29.88	30.06	4.3	04	5.8	14	35	12	34	05		
06	70	57	64	2	60	61	1	0	TSRA RA BR		0.0	0.09	29.84	30.01	2.7	17	4.4	25	21	20	21	06		
07	82	63	73	10	62	66	0	8	TS TSRA RA BR		0.0	0.67	29.65	29.85	8.5	24	9.8	35	23	25	25	07		
08	81	58	70	7	61	65	0	5	RA MIFG		0.0	T	29.68	29.86	5.5	21	6.4	21	22	17	23	08		
09	89*	68	79*	16	67	70	0	14	TS TSRA RA BR		0.0	0.25	29.59	29.77	11.6	25	11.2	63*	26	43*	27	09		
10	78	60	69	5	47	57	0	4			0.0	0.00	29.80	30.01	7.7	34	8.6	20	31	15	30	10		
11	62	50	56	-8	48	53	9	0	RA BR		0.0	0.04	29.94	30.13	2.3	04	4.4	18	04	15	03	11		
12	72	47	60	-4	45	52	5	0	MIFG		0.0	0.00	29.99	30.21	4.1	36	6.0	22	35	16	03	12		
13	74	46	60	-4	46	53	5	0			0.0	0.00	30.15	30.35	6.2	15	6.4	24	16	18	16	13		
14	80	54	67	2	59	63	0	2			0.0	0.00	30.06	30.24	10.5	20	10.8	26	22	22	20	14		
15	82	64	73	8	63	67	0	8			0.0	0.00	30.02	30.21	2.3	19	3.9	22	15	18	16	15		
16	85	67	76	11	66	69	0	11	DZ BR		0.0	T	29.88	30.05	9.6	21	10.0	24	22	18	22	16		
17	73	54	64	-1	52	56	1	0	RA BR		0.0	0.12	29.86	30.07	7.4	01	8.4	35	36	30	36	17		
18	66	48	57	-9	33	46	8	0	RA		0.0	0.02	30.07	30.28	9.7	03	10.4	30	03	22	02	18		
19	70	41*	56*	-10	39	48	9	0			0.0	0.00	30.22	30.43	4.7	06	6.0	24	10	16	03	19		
20	76	42	59	-7	41	51	6	0			0.0	0.00	30.23	30.41	2.1	12	3.9	15	07	12	15	20		
21	80	46	63	-4	51	57	2	0			0.0	0.00	30.14	30.32	4.0	16	4.4	15	16	13	15	21		
22	84	57	71	4	59	64	0	6			0.0	0.00	30.01	30.19	5.7	22	6.0	17	25	14	25	22		
23	85	62	74	6	62	67	0	9			0.0	0.00	29.96	30.14	6.2	21	6.5	20	14	21	23	23		
24	82	66	74	5	66	68	0	9	RA		0.0	T	29.89	30.07	6.0	21	6.6	15	16	13	16	24		
25	84	67	76	7	66	69	0	11	RA		0.0	T	29.83	30.01	5.2	19	5.8	16	24	13	20	25		
26	85	67	76	7	66	68	0	11	RA BR		0.0	0.01	29.84	30.04	6.3	14	7.9	36	16	26	13	26		
27	83	65	74	5	63	67	0	9	BR		0.0	0.00	29.77	29.94	4.0	11	4.6	14	18	8	11	27		
28	87	65	76	7	68	70	0	11	TS TSRA RA BR HZ		0.0	0.34	29.64	29.81	4.4	17	5.8	29	23	22	23	28		
29	87	66	77	7	65	69	0	12	TS RA BR		0.0	T	29.55	29.74	3.4	27	8.3	21	03	16	03	29		
30	84	62	73	3	58	63	0	8	RA		0.0	0.01	29.64	29.82	2.4	28	4.0	28	24	17	30	30		
31	87	63	75	5	60	65	0	10	RA BR		0.0	0.04	29.65	29.85	4.6	31	8.0	25	25	16	03	31		

MAY 2009
RICHMOND, VA

78.4	57.9	68.2	☼	57.1	61.6	1.8	5.2	< MONTHLY AVERAGES TOTALS >		0.0	3.71	29.86	30.06	1.7	21	7.0	< MONTHLY AVERAGES						
2.2	3.3	2.8		-----DEPARTURE FROM NORMAL ----->							-0.25	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS								GREATEST 24-HR PRECIPITATION : 1.18 DATE : 04-05				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY								GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.48				19 1054							
TOTAL DEPARTURE								GREATEST SNOW DEPTH : DATE :				MINIMUM : 29.68				29 1554							
SEASON TO DATE								NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 0				PRECIPITATION >= 0.01 INCH : 15			
HEATING : 56 -24 3729 -182								MAXIMUM TEMP <= 32 : 0				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH : 7							
COOLING : 160 53 216 67								THUNDERSTORMS : 7				HEAVY FOG : 1				SNOWFALL >= 1.0 INCH : 0							

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
MAY 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			0.03					T					01				0.01	T							01	0.04	0.04				
02													02		0.02	0.01	0.01	T	0.02	T					02	0.06	0.06				
03		0.06	T	0.02	T				T			0.09	03	T										0.02	03	0.21	0.21				
04	T	T		T								0.04	04	0.52	0.06	0.10			T	0.02				0.01	0.01	0.06	0.20	0.09	04	1.09	1.09
05	0.04	0.02	0.03	T	T				T	T			05	0.01	0.02	0.14	0.17	0.07	0.01	0.18	0.03			0.01	0.01	0.06	T	T	05	0.72	0.72
06													06						0.07	0.01				T	T	T			06	0.09	0.09
07	T	0.28	0.19	0.11	0.04	T			T			0.04	07																07	0.67	0.67
08	T	T											08															T	08	T	T
09	0.03	T											09							0.22	T								09	0.25	0.25
10													10																10	0.00	0.00
11						T	T					0.02	11	0.01	T	T	T	T						0.01	11	0.04	0.04				
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						T							16																16	T	T
17	T	0.06							T	0.04	T	0.01	0.01	T				T	T	T	T							17	0.12	0.12	
18	0.01	0.01	T	T									18																18	0.02	0.02
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		T	T											24	T	T
25									T				25																25	T	T
26													26			T	0.01			T									26	0.01	0.01
27													27																27	0.00	0.00
28													28		0.18	0.14	0.01	0.01	T										28	0.34	0.34
29													29																29	T	T
30	T												30					0.01	T										30	0.01	0.01
31									0.04	T			31																31	0.04	0.04

* 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)	0.33	0.48	0.50	0.50	0.52	0.52	0.52	0.57	0.58	0.58	0.68	0.68
Ending Date	04	04	04	04	04	04	04	04	04	04	04	04
Ending Time (Hr/Min)	1232	1237	1239	1239	1253	1253	1253	1345	1350	1350	1445	1445

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 MAY 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							6.00	10.00	
02							5.00	10.00	
03							0.75	10.00	
04							0.12	10.00	
05							1.00	10.00	
06							2.50	10.00	
07							3.00	10.00	
08							9.00	10.00	
09							4.00	10.00	
10							10.00	10.00	
11							7.00	10.00	
12							6.00	10.00	
13							8.00	10.00	
14							8.00	10.00	
15							10.00	10.00	
16							3.00	10.00	
17							4.00	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							9.00	10.00	
24							10.00	10.00	
25							9.00	10.00	
26							4.00	10.00	
27							2.50	10.00	
28							0.75	10.00	
29							6.00	10.00	
30							8.00	10.00	
31							7.00	10.00	
MONTHLY AVGS							6.25	10.00	
SUNSHINE (Minutes)									
Total : 0					Possible : 26382				
Percent Possible : 0									
NUMBER OF DAYS WITH : SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
MINIMUM VISIBILITY (MILES)									
<= .25			<= 3.0				>= 7.0		
1			8				16		

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

MAY 2009

KRIC

WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0515 MAY 01 SUNSET: 1859														
01	FEW	065			7.00		60	58	59	93	7	20	29.97	30.16
04	OVC	120			6.00	BR	64	61	62	90	10	21	29.93	30.12
07	OVC	250			9.00		66	62	64	87	13	22	29.94	30.13
10	OVC	250			10.00		71	62	65	73	16	23	29.90	30.09
13	BKN	250			10.00		80	60	67	51	18	23	29.82	30.01
16	BKN	200			10.00	-RA	75	63	67	66	18	24	29.76	29.95
19	BKN	250			10.00		74	62	67	66	14	23	29.75	29.94
22	OVC	200			10.00		69	62	65	79	10	22	29.77	29.96
SUNRISE: 0513 MAY 02 SUNSET: 1860														
01	OVC	200			10.00		70	62	65	76	13	23	29.74	29.93
04	BKN	250			10.00		67	61	63	81	9	21	29.72	29.91
07	OVC	200			10.00		68	62	64	81	8	21	29.75	29.93
10	BKN	200			10.00		77	62	68	60	10	25	29.75	29.94
13	OVC	250			10.00		80	60	67	51	8	24	29.70	29.89
16	BKN	250			10.00		74	67	69	79	5	05	29.69	29.88
19	OVC	250			5.00	BR	68	66	67	93	8	09	29.71	29.90
22	OVC	070			10.00		63	60	61	90	3	10	29.75	29.94
SUNRISE: 0512 MAY 03 SUNSET: 1901														
01	OVC	002			3.00	BR	62	61	61	97	3	05	29.75	29.94
04	OVC	006			4.00	-RA BR	60	59	59	97	5	08	29.75	29.94
07	OVC	006			5.00	BR	61	58	59	90	5	09	29.78	29.97
10	OVC	002			0.75	BR	62	61	61	97	5	13	29.77	29.96
13	OVC	150			7.00		69	65	66	87	0	00	29.72	29.91
16	OVC	005			7.00	BR	65	61	63	87	11	02	29.72	29.91
19	OVC	012			7.00	-RA	61	59	60	93	8	04	29.75	29.94
22	OVC	003			6.00	-RA BR	59	57	58	93	5	06	29.77	29.96
SUNRISE: 0511 MAY 04 SUNSET: 1901														
01	OVC	003			5.00	BR	57	56	56	96	8	03	29.77	29.96
04	OVC	002			0.75	BR	57	56	56	96	6	07	29.75	29.94
07	OVC	001			0.12	FG	58	57	57	97	7	09	29.76	29.95
10	OVC	003			1.50	BR	63	61	62	93	6	07	29.76	29.95
13	BKN	060			2.50	-RA BR	68	66	67	93	0	00	29.72	29.91
16	BKN	075			10.00		71	65	67	81	6	35	29.73	29.92
19	OVC	010			10.00		60	56	58	87	11	01	29.82	30.01
22	OVC	014			8.00	-RA	57	55	56	93	0	00	29.88	30.07
SUNRISE: 0510 MAY 05 SUNSET: 1902														
01	OVC	022			6.00	-RA BR	56	54	55	93	6	36	29.88	30.07
04	OVC	028			7.00	-RA	55	53	54	93	9	01	29.86	30.05
07	OVC	009			5.00	BR	55	53	54	93	7	04	29.91	30.10
10	OVC	019			10.00		57	54	55	90	5	11	29.94	30.13
13	OVC	013			2.00	BR	57	56	56	96	5	10	29.89	30.09
16	OVC	006			1.00	+RA BR	58	57	57	97	0	00	29.85	30.04
19	OVC	013			2.50	RA BR	58	57	57	97	6	36	29.82	30.01
22	OVC	004			3.00	-DZ BR	57	56	56	96	5	01	29.83	30.03
SUNRISE: 0509 MAY 06 SUNSET: 1903														
01	OVC	016			4.00	BR	57	55	56	93	7	33	29.86	30.05
04	OVC	009			7.00		57	55	56	93	0	00	29.86	30.05
07	OVC	007			2.50	BR	57	56	56	96	0	00	29.90	30.09
10	OVC	016			6.00	-RA BR	59	57	58	93	5	13	29.92	30.11
13	OVC	005			7.00		62	59	60	90	3	13	29.86	30.05
16	OVC	008			3.00	BR	67	63	65	87	6	09	29.78	29.97
19	OVC	200			3.00	BR	66	65	65	97	6	14	29.75	29.94
22	OVC	130			6.00	BR	69	67	68	93	14	19	29.69	29.88
SUNRISE: 0508 MAY 07 SUNSET: 1904														
01	OVC	100			10.00	TS	69	65	66	87	13	23	29.68	29.87
04	BKN	033			5.00	-RA BR	66	66	66	100	11	22	29.69	29.88
07	OVC	250			10.00		67	63	65	87	11	22	29.69	29.88
10	BKN	070			10.00		69	65	66	87	14	21	29.70	29.89
13	SCT	250			10.00		78	61	67	56	14	26	29.63	29.82
16	BKN	250			10.00		81	57	66	44	14	26	29.60	29.79
19	BKN	250			10.00		74	61	66	64	8	23	29.62	29.81
22	BKN	250			10.00		65	61	63	87	0	00	29.69	29.88
SUNRISE: 0507 MAY 08 SUNSET: 1904														
01	OVC	150			10.00	-RA	64	60	62	87	0	00	29.69	29.88
04	CLR	NC			9.00		58	57	57	97	5	22	29.68	29.87
07	SCT	250			10.00		65	61	63	87	5	27	29.71	29.90
10	OVC	250			10.00		76	59	66	56	9	14	29.68	29.87
13	OVC	250			10.00		78	57	65	49	8	23	29.70	29.89
16	BKN	250			10.00		81	61	68	51	14	22	29.63	29.82
19	OVC	250			10.00		75	63	67	66	8	19	29.63	29.82
22	OVC	250			10.00		70	64	66	81	6	19	29.63	29.82
SUNRISE: 0506 MAY 09 SUNSET: 1905														
01	OVC	110			8.00	-RA	71	66	68	84	9	26	29.63	29.82
04	BKN	100			10.00		68	65	66	90	10	25	29.59	29.78
07	BKN	250			10.00		73	68	70	84	10	24	29.61	29.80
10	BKN	200			10.00		82	67	72	61	15	25	29.60	29.79
13	BKN	200			10.00		86	69	74	57	17	24	29.56	29.75
16	BKN	250			10.00		87	66	73	50	13	26	29.52	29.70
19	BKN	200			4.00	TSRA BR	73	71	72	93	18	25	29.53	29.72
22	OVC	200			10.00		71	66	68	84	7	25	29.61	29.80
SUNRISE: 0505 MAY 10 SUNSET: 1906														
01	BKN	200			10.00		70	54	61	57	11	32	29.67	29.85
04	OVC	200			10.00		65	46	55	50	10	34	29.75	29.94
07	SCT	200			10.00		66	46	55	49	8	33	29.84	30.03
10	SCT	200			10.00		71	47	58	43	9	32	29.85	30.03
13	SCT	250			10.00		74	44	58	34	5	31	29.83	30.02
16	BKN	250			10.00		77	45	59	32	8	34	29.80	29.99
19	BKN	250			10.00		72	45	57	38	6	27	29.84	30.03
22	BKN	250			10.00		62	53	57	73	10	36	29.89	30.08
SUNRISE: 0504 MAY 11 SUNSET: 1907														
01	OVC	250			10.00		62	42	52	48	9	06	29.91	30.10
04	OVC	150			10.00		59	44	51	58	7	08	29.92	30.11
07	OVC	130			10.00		58	48	53	70	0	00	29.98	30.16
10	OVC	140			10.00		61	47	54	60	6	05	29.98	30.18
13	OVC	140			10.00	-RA	58	54	56	87	9	01	29.96	30.15
16	OVC	140			10.00	-RA	57	50	53	78	0	00	29.92	30.11
19	FEW	037			10.00		55	49	52	80	6	20	29.91	30.10
22	OVC	070			10.00		55	51	53	86	3	34	29.96	30.15
SUNRISE: 0503 MAY 12 SUNSET: 1908														
01	CLR	NC			6.00	MIFG	48	47	48	96	3	22	29.93	30.12
04	CLR	NC			9.00		50	48	49	93	0	00	29.94	30.13
07	FEW	250			10.00		54	50	52	86	7	34	30.00	30.19
10	FEW	030			10.00		66	47	56	51	10	02	30.04	30.24
13	SCT	250			10.00		70	44	56	39	10	32	30.03	30.22
16	SCT	250			10.00		70	42	55	36	11	35	30.01	30.20
19	SCT	250			10.00		63	41	52	45	6	05	30.04	30.23
22	CLR	NC			10.00		53	45	49	74	0	00	30.11	30.30

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

MAY 2009

KRIC

WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0502 MAY 13 SUNSET: 1909														
01	FEW	250			10.00		49	44	47	83	0	00	30.13	30.32
04	CLR	NC			10.00		48	44	46	86	0	00	30.13	30.32
07	BKN	250			8.00		56	50	53	80	0	00	30.18	30.37
10	BKN	250			10.00		68	46	56	45	6	17	30.22	30.41
13	BKN	250			10.00		72	47	58	41	8	20	30.17	30.36
16	SCT	250			10.00		73	43	57	34	9	16	30.13	30.32
19	SCT	250			10.00		64	47	55	54	15	14	30.13	30.32
22	SCT	250			10.00		56	46	51	69	7	15	30.15	30.35
SUNRISE: 0501 MAY 14 SUNSET: 1910														
01	BKN	150			10.00		58	51	54	78	8	18	30.11	30.30
04	BKN	250			10.00		55	52	53	90	3	16	30.07	30.26
07	OVC	250			9.00		59	56	57	90	0	00	30.12	30.31
10	OVC	080			10.00		71	59	64	66	16	20	30.12	30.31
13	BKN	080			10.00		79	61	68	54	17	21	30.04	30.23
16	SCT	200			10.00		79	63	69	58	16	21	29.97	30.16
19	BKN	250			10.00		75	63	67	66	16	21	29.99	30.18
22	BKN	250			10.00		70	63	66	79	13	21	30.02	30.21
SUNRISE: 0501 MAY 15 SUNSET: 1911														
01	BKN	090			10.00		68	64	66	87	5	22	30.02	30.21
04	OVC	019			10.00		67	63	65	87	5	29	30.03	30.22
07	OVC	250			10.00		67	62	64	84	3	16	30.05	30.24
10	BKN	250			10.00		74	63	67	69	3	25	30.06	30.25
13	BKN	250			10.00		79	63	69	58	0	00	30.03	30.22
16	BKN	250			10.00		81	64	70	56	6	08	29.98	30.17
19	BKN	250			10.00		73	64	67	74	9	19	29.98	30.17
22	SCT	250			10.00		68	65	66	90	5	17	29.99	30.18
SUNRISE: 0460 MAY 16 SUNSET: 1911														
01	SCT	250			10.00		67	65	66	93	7	18	29.95	30.14
04	OVC	005			10.00		68	66	67	93	7	19	29.94	30.13
07	OVC	016			4.00	BR	69	67	68	93	7	21	29.95	30.14
10	OVC	027			10.00		74	67	69	79	10	22	29.94	30.13
13	OVC	250			10.00		82	66	71	58	14	23	29.86	30.05
16	BKN	250			10.00		85	66	72	53	16	22	29.78	29.97
19	BKN	250			10.00		78	65	70	64	8	22	29.77	29.96
22	BKN	250			10.00		74	66	69	76	13	22	29.79	29.98
SUNRISE: 0459 MAY 17 SUNSET: 1912														
01	OVC	031			10.00		70	62	65	76	3	04	29.77	29.96
04	OVC	110			10.00		66	64	65	93	5	25	29.75	29.94
07	OVC	032			4.00	-RA BR	60	57	58	90	16	02	29.84	30.03
10	OVC	038			10.00	-RA	59	55	57	87	14	01	29.88	30.07
13	OVC	130			10.00		60	49	54	67	15	01	29.90	30.09
16	OVC	150			10.00		58	42	50	55	17	01	29.92	30.11
19	OVC	140			10.00	-RA	55	42	49	62	5	05	29.94	30.14
22	OVC	150			10.00		54	46	50	75	5	35	29.98	30.18
SUNRISE: 0458 MAY 18 SUNSET: 1913														
01	OVC	065			10.00	-RA	54	39	47	57	11	03	29.99	30.18
04	OVC	095			10.00		51	40	46	66	11	36	29.99	30.19
07	OVC	200			10.00		52	36	45	55	13	02	30.08	30.27
10	BKN	250			10.00		59	31	46	35	14	03	30.12	30.31
13	BKN	250			10.00		64	25	47	23	20	01	30.10	30.29
16	BKN	250			10.00		65	27	48	24	10	02	30.08	30.27
19	BKN	250			10.00		58	30	46	35	6	07	30.13	30.32
22	BKN	250			10.00		52	36	45	55	0	00	30.17	30.36
SUNRISE: 0457 MAY 19 SUNSET: 1914														
01	SCT	250			10.00		45	39	42	80	0	00	30.17	30.36
04	CLR	NC			10.00		42	38	40	86	6	02	30.20	30.39
07	FEW	250			10.00		51	43	47	74	6	02	30.27	30.46
10	FEW	250			10.00		62	38	50	41	9	09	30.29	30.48
13	FEW	250			10.00		68	35	52	30	13	06	30.26	30.45
16	FEW	250			10.00		69	37	53	31	7	09	30.21	30.40
19	FEW	250			10.00		62	39	51	43	3	10	30.22	30.41
22	FEW	250			10.00		53	44	49	72	5	16	30.25	30.45
SUNRISE: 0457 MAY 20 SUNSET: 1915														
01	CLR	NC			10.00		48	44	46	86	0	00	30.24	30.44
04	CLR	NC			10.00		43	40	42	89	0	00	30.23	30.42
07	FEW	250			10.00		53	47	50	80	5	36	30.28	30.47
10	CLR	NC			10.00		65	39	52	39	0	00	30.27	30.46
13	CLR	NC			10.00		73	39	55	29	6	VR	30.25	30.44
16	CLR	NC			10.00		76	38	56	25	8	16	30.19	30.38
19	CLR	NC			10.00		67	41	54	39	9	14	30.17	30.37
22	CLR	NC			10.00		55	43	49	64	3	15	30.19	30.38
SUNRISE: 0456 MAY 21 SUNSET: 1916														
01	CLR	NC			10.00		49	43	46	80	0	00	30.17	30.37
04	CLR	NC			10.00		48	44	46	86	0	00	30.16	30.35
07	FEW	250			10.00		57	49	53	75	0	00	30.19	30.38
10	CLR	NC			10.00		70	53	60	55	5	16	30.19	30.38
13	FEW	050			10.00		78	53	63	42	8	15	30.14	30.33
16	CLR	NC			10.00		80	52	64	38	10	16	30.08	30.27
19	FEW	250			10.00		72	56	63	57	7	14	30.05	30.24
22	FEW	250			10.00		63	59	61	87	8	16	30.06	30.25
SUNRISE: 0455 MAY 22 SUNSET: 1916														
01	SCT	250			10.00		61	57	59	87	0	00	30.05	30.24
04	FEW	250			10.00		58	56	57	93	0	00	30.03	30.22
07	SCT	250			10.00		64	60	62	87	6	20	30.05	30.24
10	BKN	250			10.00		77	61	67	58	7	22	30.04	30.23
13	BKN	250			10.00		80	59	67	49	10	21	30.00	30.19
16	BKN	250			10.00		84	59	68	43	10	21	29.95	30.14
19	BKN	250			10.00		77	59	66	54	8	21	29.96	30.15
22	BKN	250			10.00		68	60	63	76	0	00	29.98	30.16
SUNRISE: 0455 MAY 23 SUNSET: 1917														
01	SCT	250			10.00		66	62	64	87	5	20	29.97	30.16
04	CLR	NC			10.00		63	62	62	97	3	16	29.97	30.16
07	BKN	250			10.00		68	64	66	87	7	23	29.99	30.18
10	BKN	250			10.00		78	63	68	60	8	23	29.99	30.18
13	BKN	250			10.00		83	59	68	44	14	20	29.96	30.15
16	OVC	250			10.00		84	58	68	41	10	22	29.91	30.10
19	OVC	250			10.00		78	62	68	58	0	00	29.89	30.08
22	OVC	200			10.00		73	64	67	74	10	19	29.92	30.11
SUNRISE: 0454 MAY 24 SUNSET: 1918														
01	BKN	200			10.00		69	64	66	84	7	20	29.92	30.11
04	BKN	250			10.00		66	64	65	93	6	20	29.90	30.09
07	OVC	250			10.00		69	65	66	87	8	21	29.92	30.11
10	OVC	250			10.00		74	66	69	76	9	23	29.93	30.12
13	OVC	200			10.00		76	67	70	74	3	22	29.90	30.09
16	BKN	150			10.00	-RA	81	65	71	58	8	25	29.84	30.03
19	BKN	150			10.00		78	68	71	71	10	16	29.82	30.01
22	BKN	250			10.00		71	67	68	87	3	19	29.85	30.04

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

MAY 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: 0453						MAY 25						SUNSET: 1919					
01	OVC	200				70	67	68	90	3	18	29.85	30.03				
04	BKN	150				68	66	67	93	3	21	29.82	30.01				
07	OVC	150				71	67	68	87	6	22	29.85	30.04				
10	BKN	150				76	68	71	76	8	20	29.85	30.04				
13	OVC	250				83	64	71	53	9	23	29.83	30.01				
16	OVC	250				83	64	71	53	8	20	29.78	29.97				
19	BKN	250				77	67	70	71	5	13	29.78	29.97				
22	BKN	250				73	67	69	82	6	16	29.82	30.01				
SUNRISE: 0453						MAY 26						SUNSET: 1920					
01	OVC	250				70	67	68	90	0	00	29.83	30.02				
04	OVC	200				71	66	68	84	5	19	29.82	30.01				
07	BKN	250				72	67	69	84	7	21	29.86	30.05				
10	OVC	250				79	67	71	67	6	15	29.88	30.07				
13	BKN	250				85	63	71	48	13	16	29.84	30.03				
16	OVC	250				72	68	69	87	9	10	29.84	30.03				
19	OVC	075				69	66	67	90	9	09	29.84	30.03				
22	OVC	006				67	64	65	90	9	11	29.87	30.06				
SUNRISE: 0452						MAY 27						SUNSET: 1920					
01	OVC	005			BR	67	64	65	90	3	11	29.84	30.03				
04	OVC	004			BR	66	64	65	93	7	10	29.80	29.99				
07	OVC	004			BR	66	64	65	93	5	12	29.82	30.01				
10	OVC	014				72	64	67	76	5	13	29.81	30.00				
13	BKN	250				82	61	69	49	3	VR	29.76	29.94				
16	OVC	250				82	60	68	47	5	11	29.68	29.87				
19	OVC	250				76	65	69	69	8	11	29.67	29.86				
22	BKN	250				69	64	66	84	3	14	29.69	29.88				
SUNRISE: 0452						MAY 28						SUNSET: 1921					
01	BKN	250				66	64	65	93	3	15	29.66	29.85				
04	OVC	001			BR	67	66	66	97	3	20	29.66	29.85				
07	OVC	001			BR	68	66	67	93	0	00	29.68	29.87				
10	BKN	150				79	68	72	69	6	VR	29.66	29.85				
13	BKN	250				85	65	72	51	10	19	29.61	29.80				
16	BKN	065			-TSRA	73	70	71	90	8	13	29.58	29.77				
19	BKN	080				74	71	72	90	8	15	29.58	29.77				
22	SCT	140			BR	72	70	71	93	7	16	29.58	29.77				
SUNRISE: 0451						MAY 29						SUNSET: 1922					
01	BKN	120			BR	72	69	70	90	6	23	29.56	29.75				
04	BKN	250				68	65	66	90	6	21	29.53	29.72				
07	BKN	250				72	65	68	79	7	23	29.57	29.76				
10	BKN	250				78	66	70	67	6	22	29.57	29.76				
13	BKN	250				84	70	74	63	9	20	29.53	29.72				
16	BKN	250				86	66	73	51	11	22	29.49	29.68				
19	BKN	200				80	66	71	62	6	31	29.52	29.71				
22	OVC	049				71	64	67	79	9	02	29.61	29.80				
SUNRISE: 0451						MAY 30						SUNSET: 1923					
01	OVC	043				66	56	60	70	6	02	29.64	29.83				
04	SCT	065				63	56	59	78	3	34	29.61	29.80				
07	CLR	NC				68	58	62	71	5	32	29.65	29.84				
10	CLR	NC				77	54	63	45	3	31	29.67	29.85				
13	SCT	060				82	52	64	35	7	25	29.63	29.82				
16	BKN	100				81	53	64	38	3	VR	29.60	29.79				
19	SCT	100				73	67	69	82	5	20	29.62	29.81				
22	FEW	110				69	63	65	81	3	19	29.65	29.84				

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: 0450						MAY 31						SUNSET: 1923					
01	BKN	250				70	60	64	71	7	25	29.64	29.83				
04	BKN	250				64	60	62	87	6	21	29.61	29.80				
07	OVC	090			-RA	67	60	63	78	10	25	29.64	29.83				
10	SCT	250				74	62	66	66	9	32	29.64	29.83				
13	SCT	150				83	59	68	44	14	29	29.63	29.82				
16	SCT	080				86	58	68	39	10	31	29.62	29.80				
19	SCT	100				78	63	68	60	3	VR	29.67	29.86				
22	BKN	080				74	55	63	52	14	03	29.78	29.97				

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

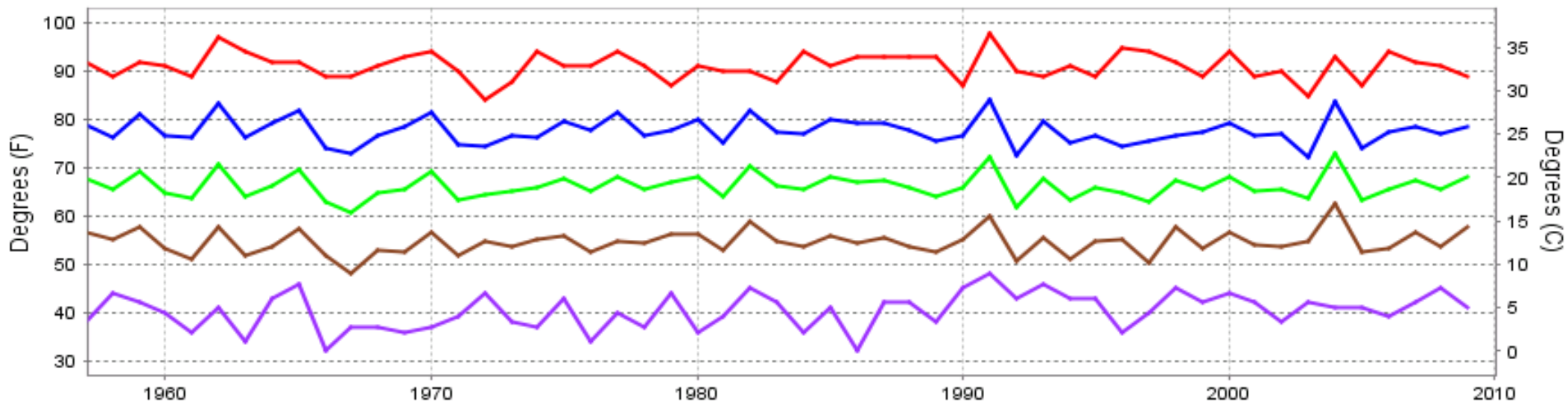
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

& = 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			62	57	59	83	29.87	30.06	8.71	5	2	23
02			62	57	59	86	29.86	30.05	8.63	5	1	22
03			61	57	58	87	29.86	30.05	8.45	5	1	20
04			60	56	58	88	29.86	30.05	8.35	5	1	22
05			60	56	58	87	29.87	30.06	8.37	5	1	22
06			61	57	59	86	29.89	30.08	7.74	5	1	22
07			63	58	60	83	29.90	30.09	7.97	6	2	24
08			66	58	61	78	29.91	30.10	8.48	7	2	24
09			68	57	62	71	29.90	30.09	8.90	8	2	24
10			70	57	63	66	29.90	30.09	9.30	8	1	23
11			72	57	63	61	29.90	30.09	9.10	9	2	24
12			74	57	64	59	29.88	30.07	9.05	8	2	25
13			75	57	64	55	29.87	30.06	9.31	9	4	25
14			76	56	64	55	29.85	30.04	8.71	10	4	26
15			76	56	65	54	29.83	30.02	9.32	9	2	24
16			76	56	64	55	29.83	30.02	9.19	9	2	24
17			74	57	64	58	29.83	30.02	9.35	9	2	23
18			73	57	64	61	29.83	30.02	9.34	8	1	14
19			70	58	63	68	29.84	30.03	8.95	8	1	15
20			67	58	62	74	29.85	30.03	9.16	6	2	12
21			66	58	61	78	29.86	30.05	9.29	6	2	12
22			65	58	61	80	29.87	30.06	9.23	6	1	16
23			64	58	60	82	29.87	30.06	9.10	6	1	17
24			63	58	60	83	29.87	30.06	8.85	6	1	21

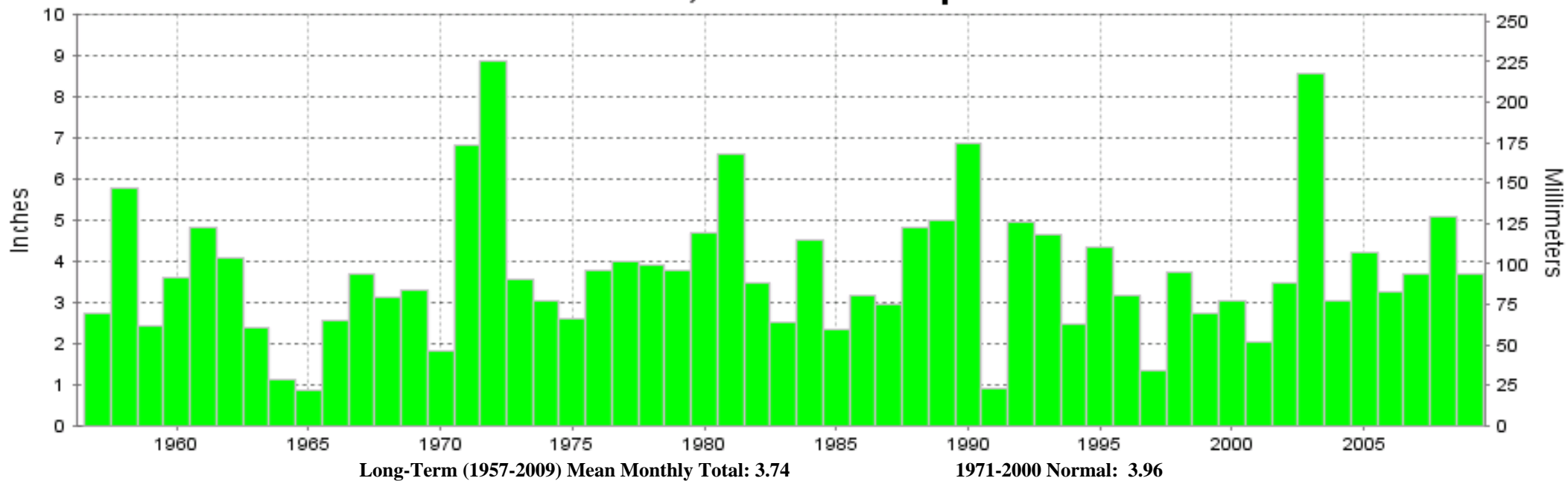
RICHMOND, VA MAY Temperatures



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

Long-Term (1957-2009) Mean: 66.2
1971-2000 Normal: 65.4

RICHMOND, VA MAY Precipitation



Long-Term (1957-2009) Mean Monthly Total: 3.74

1971-2000 Normal: 3.96



MAY 2009
RICHMOND, VA

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA-National Weather Service / Department Of Transportation-Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.



DIRECTOR

NCDC now offers an annual online subscription for the **Edited Local Climatological Data Publication**. When you purchase this subscription service, you will have **immediate online access** to all previous publications back to July 1996 and all publications thereafter until the expiration of the subscription. Your subscription is valid for one year after purchase. **The total cost for online delivery (including back issues) is significantly less than the cost for offline delivery.** To order this and other subscriptions online with your credit card, go to: **www.ncdc.noaa.gov** and choose subscriptions.

We welcome your questions or comments, please contact us at:
Toll Free Number (866) 742-3322 (voice)
Fax Number : (304) 726-4409
TDD : (828) 271-4010
or Email : ncdc.info@noaa.gov
Local Climatological Data is available at www.ncdc.noaa.gov

NCDC Subscription Services Center
310 State Route 956 Building 300
Rocket Center, WV 26726
OFFICIAL BUSINESS, PENALTY FOR PRIVATE USE \$300

FIRST CLASS
POSTAGE AND FEES PAID
NOAA
PERMIT G-19

For address correction, please return a photocopy of this page to Subscription Services indicating changes