



# MAY 2010 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	89	58	74	13	61	67	0	9		0		0.0	0.00	29.72	29.90	10.6	23	11.0	26	22	23	24	01	
02	90	72	81*	20	68	72	0	16	RA	0		0.0	0.0	29.72	29.90	12.2	23	12.7	30	25	23	25	02	
03	84	73	79	18	66	70	0	14	RA	0		0.0	0.0	29.67	29.86	14.0	24	14.8	40	28	29	27	03	
04	86	62	74	13	58	65	0	9		0		0.0	0.00	29.68	29.88	4.1	27	6.9	20	25	16	26	04	
05	87	56	72	11	53	62	0	7		0		0.0	0.00	29.75	29.94	3.1	18	6.3	18	20	15	21	05	
06	92*	64	78	16	58	65	0	13		0		0.0	0.00	29.67	29.86	5.3	26	9.3	25	27	20	28	06	
07	82	53	68	5	49	58	0	3		0		0.0	0.00	29.79	29.96	5.4	16	8.0	22	21	17	21	07	
08	89	59	74	11	46	60	0	9		0		0.0	0.00	29.54	29.74	13.4	28	17.8	43	29	32	28	08	
09	69	48	59	-4	28	45	6	0		0		0.0	0.00	29.90	30.12	10.1	34	10.9	29	31	24	31	09	
10	68	41*	55	-9	30	44	10	0		0		0.0	0.00	30.14	30.34	2.8	02	5.8	21	32	16	02	10	
11	62	44	53*	-11	44	49	12	0	RA	0		0.0	0.02	30.16	30.34	6.8	16	7.6	23	21	18	21	11	
12	86	60	73	9	60	64	0	8	TS TSRA RA BR SQ	0		0.0	0.43	29.92	30.11	7.2	25	9.2	43	33	35	33	12	
13	64	55	60	-4	53	56	5	0	RA BR	0		0.0	0.0	30.09	30.29	5.3	12	7.4	21	08	16	10	13	
14	89	59	74	9	64	67	0	9	TS TSRA RA DZ BR	0		0.0	0.29	30.01	30.19	8.0	24	9.0	43*	30	35*	30	14	
15	86	65	76	11	62	67	0	11	BR	0		0.0	0.00	29.93	30.11	0.2	17	5.7	17	12	13	12	15	
16	81	62	72	7	56	62	0	7	RA BR	0		0.0	0.03	29.94	30.13	3.3	10	4.6	18	11	14	11	16	
17	62	54	58	-7	54	55	7	0	RA DZ BR	0		0.0	0.75	29.92	30.10	6.5	09	7.1	26	13	21	13	17	
18	62	53	58	-8	52	54	7	0	RA BR	0		0.0	0.10	29.73	29.92	8.6	01	8.5	20	36	14	36	18	
19	72	55	64	-2	53	58	1	0	RA	0		0.0	0.0	29.75	29.94	1.6	03	2.5		10		35	19	
20	83	55	69	3	53	60	0	4		0		0.0	0.00	29.83	30.04	2.6	36	3.5	17	35	14	34	20	
21	85	53	69	2	52	60	0	4		0		0.0	0.00	29.94	30.13	4.2	15	5.3	18	14	15	16	21	
22	79	61	70	3	60	64	0	5	RA BR	0		0.0	0.13	29.93	30.11	6.9	15	7.7	18	11	15	16	22	
23	80	65	73	5	64	67	0	8	TS TSRA RA BCFG BR	0		0.0	0.30	29.90	30.09	2.1	08	3.4	23	05	18	06	23	
24	78	64	71	2	63	66	0	6	RA BR	0		0.0	0.07	29.98	30.18	5.4	08	6.0	18	07	13	09	24	
25	78	63	71	2	62	65	0	6	RA DZ BR	0		0.0	0.01	29.98	30.16	5.8	07	6.2	20	05	15	05	25	
26	87	59	73	4	61	66	0	8		0		0.0	0.00	29.75	29.93	2.9	03	3.6	15	01	13	36	26	
27	91	68	80	11	66	71	0	15		0		0.0	0.00	29.59	29.79	3.4	06	6.5	28	04	15	14	27	
28	80	64	72	3	63	66	0	7	TS TSRA RA BR	0		0.0	0.49	29.74	29.93	4.4	12	7.2	22	13	18	14	28	
29	84	66	75	5	64	68	0	10		0		0.0	0.00	29.75	29.94	6.7	24	7.4	22	26	17	27	29	
30	90	69	80	10	67	71	0	15	BR HZ	0		0.0	0.00	29.76	29.96	3.6	24	5.7	16	18	13	17	30	
31	90	70	80	10	66	71	0	15		0		0.0	0.00	29.82	30.01	10.2	23	10.5	26	22	21	23	31	

MAY 2010  
RICHMOND, VA

80.8	59.7	70.3	☼	56.6	62.4	1.5	7.0	< MONTHLY AVERAGES   TOTALS >				0.0	2.62	29.84	30.03	1.7	23	7.7	< MONTHLY AVERAGES			
4.6	5.1	4.9		----- DEPARTURE FROM NORMAL -----								-1.34	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
<b>DEGREE DAYS</b>								GREATEST 24-HR PRECIPITATION : 0.80 DATE : 17-18				SEA LEVEL PRESSURE				DATE TIME						
MONTHLY				SEASON TO DATE				GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.42 11 1013										
TOTAL DEPARTURE				TOTAL DEPARTURE				GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.65 08 1054										
HEATING :		48 -32		3654 -257				NUMBER OF ->		MAXIMUM TEMP >= 90 : 5		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH : 11								
COOLING :		218 111		284 135				DAYS WITH		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH : 7								
										THUNDERSTORMS : 4		HEAVY FOG : 0		SNOWFALL >= 1.0 INCH : 0								

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)  
MAY 2010

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			T	T									02												02	T	T	
03													03	T	T										03	T	T	
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												10	0.00	0.00	
11												T	11	T	0.02	T	T	T						11	0.02	0.02		
12													12											12	0.43	0.43		
13			T	T									13											13	T	T		
14	T	T	T										14											14	0.29	0.29		
15													15											15	0.00	0.00		
16			T	T									16											16	0.03	0.03		
17	T	0.01	0.03	0.01	0.01	0.01	0.01	0.02	0.02	0.07	T	0.02	17	0.05	0.05	0.02	0.18	0.03	0.01	0.09	0.01	0.08	0.02	T	T	17	0.75	0.75
18	0.01	0.02	0.01	0.06	T	T	T						18											18	0.10	0.10		
19													19											19	T	T		
20													20											20	0.00	0.00		
21													21											21	0.00	0.00		
22													22											22	0.13	0.13		
23	T												23			0.24	0.06	T						23	0.30	0.30		
24													24											24	0.07	0.07		
25													25											25	0.01	0.01		
26													26											26	0.00	0.00		
27													27											27	0.00	0.00		
28	0.08	0.18	0.21	0.01	T								28											28	0.49	0.49		
29													29											29	0.00	0.00		
30													30											30	0.00	0.00		
31													31											31	0.00	0.00		

\* 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)												
Ending Date												
Ending Time (Hr/Min)												

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 2010

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:

NOTE: Temp sensor had issues and Sandston COOP was used to adjust Max Temp for May 23-27 & 30th.  
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							10.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							9.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							8.00	10.00	
12							4.00	10.00	
13							2.00	10.00	
14							1.25	10.00	
15							4.00	10.00	
16							6.00	10.00	
17							2.00	10.00	
18							2.50	10.00	
19							10.00	10.00	
20							7.00	10.00	
21							8.00	10.00	
22							7.00	10.00	
23							1.50	10.00	
24							5.00	10.00	
25							1.25	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							3.00	10.00	
29							10.00	10.00	
30							6.00	10.00	
31							7.00	10.00	
MONTHLY AVGS							6.92	10.00	
<b>SUNSHINE (Minutes)</b>									
Total : 0					Possible : 26382				
Percent Possible : 0									
<b>NUMBER OF DAYS WITH : SKY CONDITION</b>									
Clear		Partly CLDY			Cloudy			Missing	
<b>MINIMUM VISIBILITY (MILES)</b>									
<= .25			<= 3.0				>= 7.0		
0			7				19		

# OBSERVATIONS AT 3-HOURLY INTERVALS

# RICHMOND, VA

## MAY 2010

## 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																																																								
																												WEATHER	WEATHER																																																						
<b>SUNRISE: 0515</b>						<b>MAY 01</b>						<b>SUNSET: 1859</b>						<b>SUNRISE: 0508</b>						<b>MAY 07</b>						<b>SUNSET: 1904</b>																																																					
01	CLR	NC			10.00	71	55	62	57	10	24	29.72	29.91	01	CLR	NC			10.00	63	47	54	56	5	03	29.80	29.98	04	CLR	NC			10.00	59	53	56	81	8	22	29.72	29.91	04	CLR	NC			10.00	56	45	50	67	0	00	29.83	30.02	07	CLR	NC			10.00	67	59	62	76	8	23	29.76	29.95	07	CLR	NC			10.00	63	47	55	56	5	05	29.87	30.05
10	FEW	250			10.00	81	61	68	51	14	24	29.74	29.93	10	SCT	250			10.00	76	46	59	35	6	14	29.88	30.07	13	FEW	250			10.00	88	63	72	43	17	24	29.70	29.89	13	SCT	250			10.00	81	46	61	29	9	20	29.82	30.01	16	OVC	250			10.00	88	64	72	45	17	25	29.67	29.86	16	BKN	250			10.00	82	50	63	33	10	16	29.73	29.92
19	OVC	250			10.00	79	65	70	62	8	22	29.69	29.88	19	BKN	200			10.00	72	54	61	53	9	15	29.68	29.87	22	OVC	200			10.00	77	65	69	67	8	20	29.71	29.89	22	SCT	250			10.00	69	55	61	61	7	18	29.62	29.81																												
<b>SUNRISE: 0513</b>						<b>MAY 02</b>						<b>SUNRISE: 1860</b>						<b>SUNRISE: 0507</b>						<b>MAY 08</b>						<b>SUNSET: 1904</b>																																																					
01	BKN	250			10.00	76	65	69	69	10	22	29.72	29.91	01	SCT	250			10.00	70	59	63	68	13	21	29.55	29.74	04	OVC	140			10.00	73	67	69	82	9	22	29.71	29.90	04	BKN	250			10.00	73	62	66	69	16	22	29.49	29.68																												
07	BKN	150			10.00	76	68	71	76	14	23	29.74	29.93	07	OVC	250			10.00	76	62	67	62	18	23	29.48	29.67	10	BKN	150			10.00	81	68	72	65	15	23	29.75	29.94	10	SCT	100			10.00	85	63	71	48	22	26	29.48	29.66																												
13	OVC	055			10.00	85	68	74	57	10	25	29.75	29.93	13	FEW	055			10.00	85	39	60	20	22	27	29.49	29.68	16	OVC	250			10.00	88	69	75	53	11	24	29.69	29.88	16	FEW	060			10.00	81	33	57	18	22	30	29.54	29.72																												
19	BKN	250			10.00	85	69	74	59	11	20	29.67	29.86	19	FEW	250			10.00	72	26	51	18	15	33	29.62	29.81	22	BKN	250			10.00	82	68	73	63	10	21	29.69	29.88	22	CLR	NC			10.00	64	29	48	27	22	34	29.73	29.92																												
<b>SUNRISE: 0512</b>						<b>MAY 03</b>						<b>SUNSET: 1901</b>						<b>SUNRISE: 0506</b>						<b>MAY 09</b>						<b>SUNSET: 1905</b>																																																					
01	BKN	250			10.00	78	67	71	69	17	21	29.66	29.85	01	CLR	NC			10.00	58	29	45	33	16	34	29.80	29.99	04	BKN	250			10.00	75	65	69	71	16	22	29.67	29.85	04	CLR	NC			10.00	54	29	43	38	10	32	29.85	30.03																												
07	BKN	250			10.00	75	66	69	74	11	23	29.72	29.91	07	CLR	NC			10.00	56	30	45	37	14	33	29.91	30.10	10	OVC	250			10.00	80	69	73	69	17	22	29.69	29.87	10	SCT	250			10.00	60	30	46	30	11	32	29.95	30.14																												
13	OVC	150			10.00	79	67	71	67	10	20	29.64	29.83	13	SCT	100			10.00	66	28	49	24	11	35	29.94	30.13	16	OVC	200			10.00	81	63	69	54	20	27	29.64	29.83	16	FEW	085			10.00	68	28	50	22	13	31	29.91	30.10																												
19	BKN	250			10.00	78	65	70	64	15	25	29.65	29.84	19	CLR	NC			10.00	63	25	46	24	8	35	29.96	30.15	22	BKN	250			10.00	74	66	69	76	9	25	29.68	29.87	22	CLR	NC			10.00	53	29	43	40	7	04	30.04	30.23																												
<b>SUNRISE: 0511</b>						<b>MAY 04</b>						<b>SUNSET: 1901</b>						<b>SUNRISE: 0505</b>						<b>MAY 10</b>						<b>SUNSET: 1906</b>																																																					
01	BKN	250			10.00	73	66	69	79	8	25	29.68	29.87	01	CLR	NC			10.00	47	31	40	54	3	05	30.09	30.28	04	OVC	110			10.00	72	66	68	82	6	29	29.67	29.86	04	CLR	NC			10.00	43	30	38	60	6	04	30.14	30.33																												
07	OVC	250			10.00	73	66	69	79	7	31	29.72	29.91	07	FEW	150			10.00	50	30	42	46	7	33	30.20	30.39	10	BKN	250			10.00	82	59	68	46	8	33	29.74	29.93	10	CLR	NC			10.00	58	27	45	31	7	VR	30.20	30.39																												
13	BKN	250			10.00	82	50	63	33	6	31	29.68	29.87	13	SCT	250			10.00	65	26	48	23	3	VR	30.14	30.33	16	SCT	250			10.00	85	47	63	27	8	25	29.64	29.83	16	BKN	250			10.00	65	26	48	23	7	29	30.11	30.30																												
19	FEW	095			10.00	73	56	63	55	7	21	29.65	29.84	19	BKN	250			10.00	61	31	47	32	5	17	30.14	30.33	22	CLR	NC			10.00	70	56	62	61	8	36	29.73	29.92	22	BKN	250			10.00	53	38	46	57	7	12	30.18	30.37																												
<b>SUNRISE: 0510</b>						<b>MAY 05</b>						<b>SUNSET: 1902</b>						<b>SUNRISE: 0504</b>						<b>MAY 11</b>						<b>SUNSET: 1907</b>																																																					
01	CLR	NC			10.00	60	55	57	84	3	03	29.74	29.93	01	BKN	250			10.00	49	41	45	74	3	13	30.18	30.37	04	CLR	NC			10.00	61	50	55	67	5	03	29.77	29.96	04	SCT	250			10.00	45	40	43	83	5	15	30.19	30.38																												
07	CLR	NC			10.00	67	53	59	61	3	06	29.82	30.01	07	BKN	250			10.00	53	44	49	72	8	15	30.21	30.40	10	CLR	NC			10.00	80	48	62	33	7	12	29.82	30.01	10	OVC	090			10.00	60	41	51	50	10	18	30.22	30.41																												
13	FEW	050			10.00	85	49	64	29	5	VR	29.76	29.95	13	OVC	070			10.00	59	45	52	60	7	13	30.19	30.38	16	SCT	080			10.00	87	50	65	28	11	23	29.72	29.91	16	OVC	055			10.00	55	48	51	77	9	14	30.13	30.32																												
19	FEW	060			10.00	75	59	65	58	5	18	29.70	29.89	19	OVC	050			10.00	56	47	51	72	7	15	30.07	30.27	22	FEW	085			10.00	72	56	63	57	8	21	29.72	29.91	22	OVC	043			10.00	58	44	51	60	8	17	30.03	30.23																												
<b>SUNRISE: 0509</b>						<b>MAY 06</b>						<b>SUNSET: 1903</b>						<b>SUNRISE: 0503</b>						<b>MAY 12</b>						<b>SUNSET: 1908</b>																																																					
01	CLR	NC			10.00	70	58	63	66	10	22	29.70	29.88	01	OVC	020			10.00	60	52	56	75	9	22	29.96	30.15	04	SCT	250			10.00	66	60	62	81	8	20	29.67	29.86	04	OVC	030			10.00	62	55	58	78	8	22	29.94	30.13																												
07	FEW	250			10.00	71	63	66	76	11	23	29.68	29.87	07	SCT	015			10.00	65	58	61	78	11	24	29.93	30.13	10	CLR	NC			10.00	84	60	69	44	14	24	29.67	29.85	10	BKN	250			10.00	79	61	68	54	14	25	29.91	30.10																												
13	SCT	050			10.00	90	56	69	32	11	30	29.63	29.81	13	OVC	250			10.00	85	62	70	46	16	26	29.89	30.08	16	SCT	075			10.00	91	55	68	30	16	29	29.60	29.78	16	BKN	150			7.00	81	64	70	56	10	27	29.86	30.05																												
19	SCT	250			10.00	78	59	66	52	5	05	29.66	29.85	19	BKN	120			10.00	69	65	66	87	13	24	29.90	30.09	22	SCT	250			10.00	71	53	61	53	0	00	29.76	29.95	22	BKN	060			10.00	67	63	65	87	0	00	29.95	30.14																												

# OBSERVATIONS AT 3-HOURLY INTERVALS

# RICHMOND, VA

## MAY 2010

## 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								
																												WEATHER	WEATHER						
<b>SUNRISE: 0502</b>						<b>MAY 13</b>						<b>SUNSET: 1909</b>						<b>SUNRISE: 0457</b>						<b>MAY 19</b>						<b>SUNSET: 1914</b>					
01	OVC	017			4.00	BR	61	58	59	90	8	06	30.00	30.19	01	OVC	021			10.00			56	50	53	80	7	36	29.74	29.93					
04	OVC	010			2.00	-RA BR	57	54	55	90	8	08	30.06	30.25	04	OVC	026			10.00			55	48	51	77	0	00	29.74	29.93					
07	OVC	030			10.00		56	51	53	83	8	08	30.12	30.31	07	OVC	030			10.00			57	48	52	72	0	00	29.78	29.97					
10	OVC	035			10.00		59	51	55	75	3	VR	30.15	30.35	10	OVC	250			10.00			63	52	57	68	0	00	29.76	29.96					
13	OVC	018			10.00		62	52	57	70	6	11	30.15	30.34	13	OVC	090			10.00			69	54	60	59	0	00	29.73	29.92					
16	OVC	019			10.00		64	54	58	70	7	13	30.11	30.31	16	OVC	150			10.00			70	56	62	61	5	11	29.72	29.91					
19	OVC	029			10.00		62	54	58	75	9	16	30.11	30.30	19	OVC	080			10.00			67	58	62	73	5	06	29.75	29.94					
22	OVC	012			10.00		59	53	56	81	7	18	30.08	30.27	22	OVC	110			10.00			64	58	60	81	0	00	29.78	29.98					
<b>SUNRISE: 0501</b>						<b>MAY 14</b>						<b>SUNRISE: 0457</b>						<b>MAY 20</b>						<b>SUNSET: 1915</b>											
01	OVC	006			4.00	-DZ BR	59	56	57	90	0	00	30.10	30.29	01	BKN	110			10.00			62	56	59	81	0	00	29.78	29.97					
04	OVC	002			2.00	BR	59	57	58	93	8	21	30.05	30.25	04	BKN	065			10.00			59	55	57	87	6	35	29.81	30.00					
07	OVC	004			4.00	BR	62	59	60	90	8	24	30.07	30.26	07	FEW	250			9.00			63	56	59	78	3	28	29.85	30.04					
10	BKN	250			10.00		75	65	69	71	10	25	30.04	30.23	10	SCT	250			10.00			73	52	61	48	5	35	29.86	30.05					
13	BKN	250			10.00		86	68	74	55	9	27	30.00	30.19	13	BKN	250			10.00			79	49	62	35	7	34	29.85	30.04					
16	OVC	250			10.00		87	67	74	52	13	23	29.92	30.11	16	SCT	250			10.00			82	50	63	33	9	35	29.84	30.03					
19	OVC	200			9.00		83	68	73	61	9	23	29.89	30.08	19	SCT	250			10.00			76	51	62	42	3	04	29.86	30.05					
22	OVC	050			5.00	-TSRA BR	68	64	66	87	8	20	29.95	30.14	22	FEW	250			10.00			63	54	58	73	0	00	29.91	30.10					
<b>SUNRISE: 0501</b>						<b>MAY 15</b>						<b>SUNRISE: 0456</b>						<b>MAY 21</b>						<b>SUNSET: 1916</b>											
01	OVC	200			7.00		70	66	67	87	8	22	29.91	30.09	01	FEW	250			10.00			61	54	57	78	0	00	29.92	30.11					
04	SCT	250			8.00		68	65	66	90	10	24	29.90	30.09	04	FEW	250			10.00			57	53	55	87	0	00	29.93	30.12					
07	BKN	250			10.00		71	63	66	76	8	29	29.95	30.14	07	BKN	250			10.00			64	56	59	75	3	02	29.97	30.16					
10	SCT	250			10.00		79	64	69	60	8	05	29.96	30.15	10	BKN	250			10.00			80	53	64	39	5	06	29.96	30.15					
13	SCT	150			10.00		83	65	71	55	6	VR	29.94	30.13	13	OVC	250			10.00			84	49	64	30	13	17	29.95	30.14					
16	SCT	046			10.00		85	64	71	49	3	09	29.89	30.08	16	BKN	250			10.00			83	51	64	33	13	16	29.93	30.11					
19	BKN	250			10.00		75	60	66	60	11	14	29.91	30.10	19	BKN	250			10.00			74	51	61	45	7	15	29.94	30.13					
22	BKN	250			10.00		68	56	61	66	5	13	29.96	30.15	22	OVC	250			10.00			68	49	58	51	6	12	29.94	30.13					
<b>SUNRISE: 0460</b>						<b>MAY 16</b>						<b>SUNRISE: 0455</b>						<b>MAY 22</b>						<b>SUNSET: 1916</b>											
01	OVC	250			10.00		67	57	61	70	3	05	29.96	30.15	01	BKN	250			10.00			63	55	58	75	5	15	29.94	30.13					
04	BKN	250			10.00		63	57	60	81	7	13	29.95	30.14	04	OVC	250			10.00			62	57	59	84	9	15	29.93	30.12					
07	BKN	250			10.00		65	55	59	70	3	04	29.95	30.14	07	OVC	250			10.00			63	58	60	84	6	14	29.96	30.15					
10	SCT	250			10.00		73	55	62	53	5	VR	29.97	30.16	10	OVC	150			10.00			71	59	64	66	11	18	29.97	30.16					
13	BKN	250			10.00		77	55	64	47	3	VR	29.93	30.12	13	OVC	150			10.00			77	58	65	52	11	22	29.92	30.11					
16	BKN	250			10.00		78	57	65	49	8	06	29.88	30.07	16	OVC	250			10.00			77	62	68	60	7	13	29.87	30.06					
19	BKN	250			10.00		70	56	62	61	11	10	29.92	30.11	19	OVC	150			10.00			72	62	66	71	7	11	29.89	30.08					
22	OVC	090			10.00	-RA	65	55	59	70	5	14	29.97	30.16	22	OVC	110			7.00	-RA		67	64	65	90	8	14	29.89	30.08					
<b>SUNRISE: 0459</b>						<b>MAY 17</b>						<b>SUNRISE: 0455</b>						<b>MAY 23</b>						<b>SUNSET: 1917</b>											
01	OVC	110			10.00	-RA	62	58	60	87	5	15	29.95	30.14	01	OVC	055			9.00			66	64	65	93	0	00	29.88	30.07					
04	OVC	055			8.00	-RA	60	57	58	90	0	00	29.96	30.15	04	BKN	110			3.00	BR		66	64	65	93	0	00	29.86	30.05					
07	OVC	047			10.00	-RA	59	56	57	90	6	07	29.94	30.13	07	OVC	140			2.00	BR		68	66	67	93	0	00	29.91	30.10					
10	OVC	037			2.50	-RA BR	57	53	55	87	9	06	29.95	30.14	10	OVC	130			10.00			74	65	68	74	7	05	29.92	30.11					
13	OVC	035			6.00	-RA BR	54	51	52	90	11	10	29.93	30.13	13	BKN	150			10.00			80	63	69	56	8	02	29.89	30.08					
16	OVC	013			2.00	-RA BR	55	52	53	90	9	08	29.89	30.08	16	BKN	150			10.00			71	67	68	87	9	14	29.90	30.09					
19	OVC	013			2.00	RA BR	55	52	53	90	10	09	29.87	30.06	19	BKN	250			8.00			70	65	67	84	0	00	29.91	30.10					
22	OVC	010			5.00	-DZ BR	54	52	53	93	7	05	29.85	30.04	22	BKN	007			3.00	BR		65	63	64	93	0	00	29.96	30.14					
<b>SUNRISE: 0458</b>						<b>MAY 18</b>						<b>SUNRISE: 0454</b>						<b>MAY 24</b>						<b>SUNSET: 1918</b>											
01	OVC	005			3.00	BR	54	51	52	90	10	03	29.79	29.98	01	BKN	046			7.00			66	63	64	90	3	13	29.94	30.13					
04	OVC	005			8.00	-RA	53	51	52	93	10	03	29.74	29.93	04	OVC	003			5.00	BR		65	63	64	93	8	10	29.94	30.13					
07	OVC	010			9.00		54	51	52	90	11	03	29.74	29.93	07	OVC	009			6.00	BR		67	63	65	87	8	07	29.98	30.17					
10	OVC	007			10.00		57	52	54	83	10	01	29.74	29.93	10	OVC	018			10.00			68	63	65	84	6	08	30.02	30.21					
13	OVC	015			10.00		61	54	57	78	7	01	29.71	29.90	13	BKN	250			10.00			75	63	67	66	8	11	30.03	30.22					
16	OVC	018			10.00		61	53	57	75	10	35	29.69	29.88	16	BKN	250			10.00			76	63	68	64	8	05	29.99	30.18					
19	OVC	018			10.00		59	53	56	81	6	01	29.69	29.88	19	BKN	250			10.00			75	64	68	69	6	06	29.99	30.18					
22	OVC	022			10.00		58	51	54	78	7	01	29.73	29.92	22	BKN	250			10.00			68	65	66	90	0	00	30.01	30.20					

# OBSERVATIONS AT 3-HOURLY INTERVALS

**RICHMOND, VA**

**MAY 2010**

**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
<b>SUNRISE: 0453      MAY 25      SUNSET: 1919</b>														
01	OVC	140				67	64	65	90	0	00	30.00	30.19	
04	OVC	002			BR	66	64	65	93	6	08	29.99	30.18	
07	OVC	012			-DZ BR	67	64	65	90	8	03	30.01	30.20	
10	BKN	034				72	64	67	76	10	05	30.02	30.21	
13	OVC	250				76	63	68	64	11	05	29.99	30.18	
16	BKN	250				77	59	66	54	8	09	29.94	30.13	
19	BKN	250				71	59	64	66	3	12	29.92	30.11	
22	SCT	250				65	59	61	81	3	06	29.92	30.11	
<b>SUNRISE: 0453      MAY 26      SUNSET: 1920</b>														
01	CLR	NC				62	58	60	87	0	00	29.86	30.05	
04	FEW	150				59	56	57	90	3	01	29.82	30.01	
07	BKN	250				65	59	61	81	7	04	29.81	30.00	
10	OVC	250				78	60	67	54	7	05	29.80	29.99	
13	OVC	250				82	58	67	44	0	00	29.74	29.93	
16	BKN	250				86	61	70	43	5	01	29.67	29.86	
19	BKN	250				82	64	70	55	7	35	29.64	29.83	
22	SCT	250				74	65	68	74	0	00	29.63	29.82	
<b>SUNRISE: 0452      MAY 27      SUNSET: 1920</b>														
01	SCT	250				73	65	68	76	0	00	29.60	29.79	
04	FEW	250				71	64	67	79	3	33	29.60	29.79	
07	BKN	070				75	66	69	74	7	02	29.61	29.80	
10	SCT	250				87	68	74	53	7	04	29.61	29.79	
13	SCT	250				92	70	77	49	10	03	29.58	29.77	
16	SCT	250				93	70	77	47	8	06	29.56	29.75	
19	SCT	250				83	68	73	61	8	15	29.58	29.77	
22	BKN	250				71	64	67	79	10	13	29.65	29.83	
<b>SUNRISE: 0452      MAY 28      SUNSET: 1921</b>														
01	OVC	050			-TSRA BR	66	63	64	90	9	05	29.76	29.94	
04	OVC	120				64	61	62	90	10	13	29.69	29.88	
07	OVC	250				67	63	65	87	6	30	29.72	29.91	
10	BKN	250				75	63	67	66	5	01	29.76	29.95	
13	BKN	110				78	64	69	62	8	13	29.75	29.94	
16	BKN	250				79	62	68	56	9	16	29.71	29.90	
19	OVC	200				72	63	66	73	6	14	29.74	29.93	
22	OVC	090			-RA	69	63	65	81	7	12	29.77	29.96	
<b>SUNRISE: 0451      MAY 29      SUNSET: 1922</b>														
01	OVC	034				67	62	64	84	5	14	29.78	29.97	
04	BKN	120				67	62	64	84	0	00	29.76	29.95	
07	SCT	250				70	64	66	81	5	25	29.75	29.94	
10	BKN	250				78	64	69	62	10	25	29.78	29.96	
13	BKN	041				82	64	70	55	13	23	29.75	29.94	
16	BKN	040				82	63	70	53	11	27	29.72	29.91	
19	SCT	250				80	64	70	58	6	25	29.71	29.90	
22	SCT	250				72	65	68	79	3	22	29.76	29.95	
<b>SUNRISE: 0451      MAY 30      SUNSET: 1923</b>														
01	FEW	250				73	65	68	76	9	24	29.75	29.94	
04	FEW	110				69	66	67	90	8	23	29.74	29.93	
07	SCT	009				73	67	69	82	9	25	29.77	29.96	
10	SCT	250				82	68	73	63	3	34	29.79	29.98	
13	SCT	047				86	67	73	53	6	09	29.77	29.96	
16	SCT	150				89	66	74	47	6	36	29.75	29.93	
19	BKN	250				79	68	72	69	5	23	29.76	29.95	
22	BKN	250				75	69	71	82	3	18	29.81	30.00	

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
<b>SUNRISE: 0450      MAY 31      SUNSET: 1923</b>														
01	BKN	120				73	69	70	87	6	22	29.82	30.01	
04	FEW	085				72	66	68	82	3	24	29.82	30.01	
07	FEW	250				76	67	70	74	8	23	29.87	30.06	
10	SCT	250				86	66	73	51	15	26	29.85	30.03	
13	BKN	250				90	65	73	44	13	23	29.82	30.00	
16	BKN	250				89	65	73	45	18	22	29.79	29.98	
19	BKN	250				83	66	72	57	10	23	29.79	29.97	
22	BKN	150				79	64	69	60	13	26	29.83	30.01	

## 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.

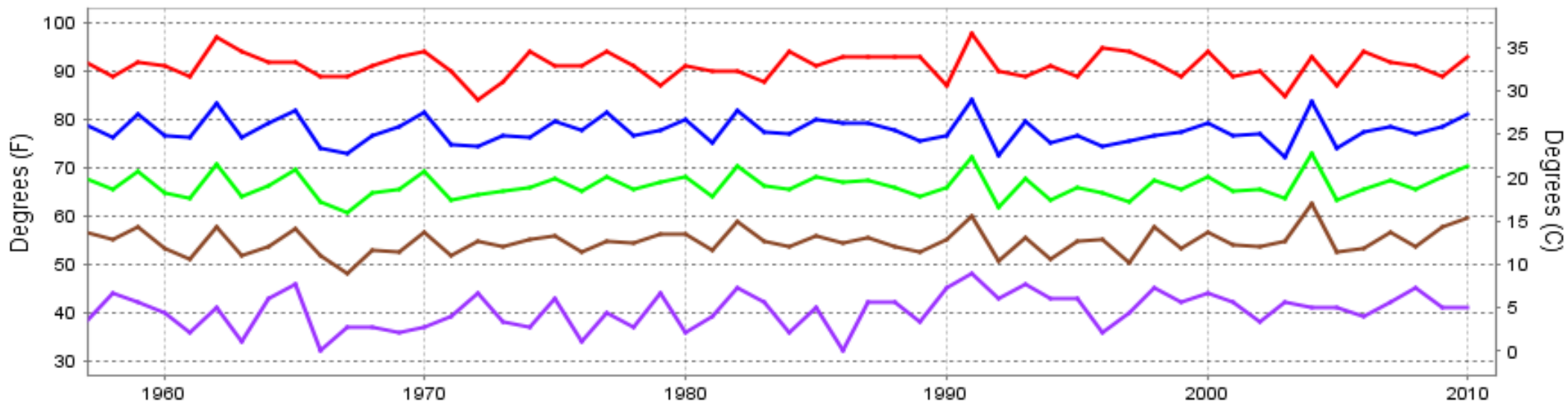
& = Original observation contained additional weather elements.

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			65	57	60	77	29.84	30.03	8.84	6	3	20
02			64	57	60	79	29.83	30.02	8.65	6	3	20
03			63	56	59	80	29.83	30.02	8.69	7	3	20
04			62	56	59	81	29.84	30.03	8.65	6	3	20
05			62	56	59	82	29.84	30.03	8.58	6	3	20
06			63	57	59	82	29.86	30.04	8.67	6	4	21
07			66	57	61	76	29.86	30.05	9.10	7	3	22
08			69	57	62	68	29.87	30.06	9.29	8	3	22
09			72	58	63	64	29.87	30.06	9.87	9	3	22
10			74	57	64	58	29.87	30.06	9.76	9	4	22
11			76	57	64	54	29.87	30.05	9.94	8	4	23
12			77	57	65	51	29.85	30.04	10.00	9	4	22
13			78	56	65	49	29.84	30.03	9.87	9	4	22
14			79	56	65	48	29.83	30.02	9.87	10	4	22
15			79	56	65	48	29.82	30.01	9.72	10	5	23
16			79	56	65	49	29.81	30.00	9.65	10	3	23
17			77	56	65	53	29.81	30.00	9.52	9	3	20
18			75	57	64	56	29.80	29.99	9.65	9	2	18
19			73	57	64	61	29.81	30.00	9.65	8	2	18
20			70	57	63	66	29.83	30.02	9.71	7	2	17
21			69	57	62	68	29.84	30.03	9.48	6	3	18
22			67	57	61	71	29.85	30.04	9.29	6	3	17
23			66	57	61	73	29.85	30.03	9.32	7	3	19
24			65	57	61	75	29.85	30.04	9.55	6	3	19

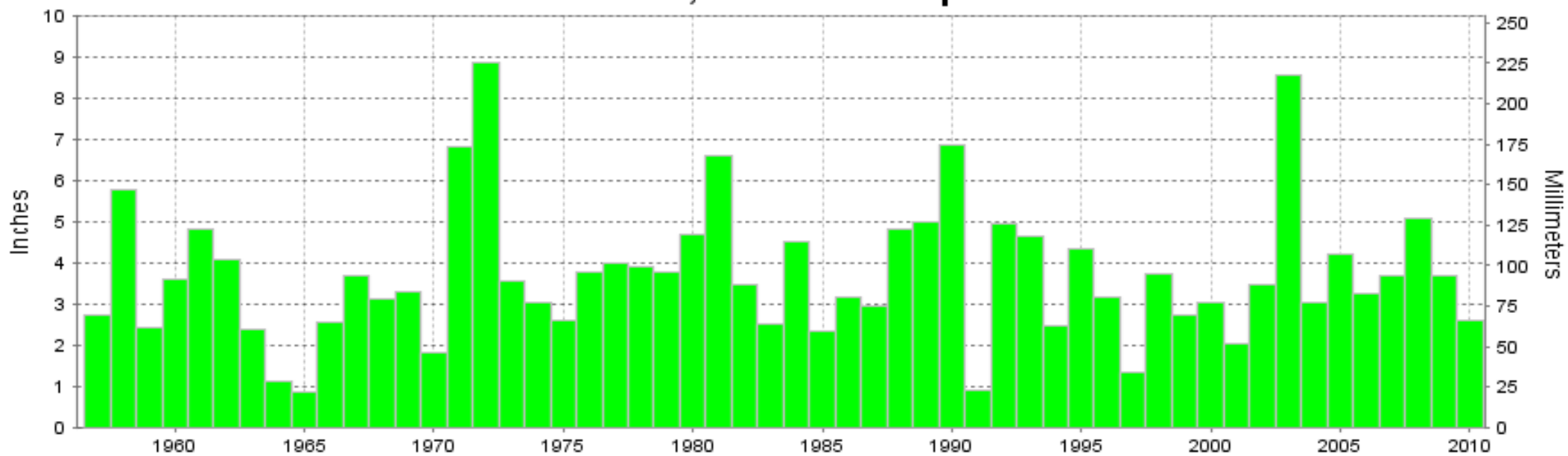
## RICHMOND, VA MAY Temperatures



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

**Long-Term (1957-2010) Mean: 66.2**  
**1971-2000 Normal: 65.4**

## RICHMOND, VA MAY Precipitation



Long-Term (1957-2010) Mean Monthly Total: 3.72

1971-2000 Normal: 3.96



MAY 2010  
RICHMOND, VA

## LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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