



OCTOBER 2007 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					
																			5-SEC		2-MIN			
11	12	13	14	15	16	17	18	19	20	21	22	23	24											
01	79	54	67	3	55	60	0	2			0.0	0.00	30.21	30.39	3.8	12	4.5	17	13	13	14	01		
02	83	56	70	7	60	63	0	5	FG BR		0.0	0.00	30.09	30.26	2.7	08	4.1	15	11	13	14	02		
03	83	65	74	11	66	68	0	9	RA FG BR		0.0	T	29.96	30.14	0.7	02	2.3	10	14	8	14	03		
04	88	68	78	16	67	70	0	13	FG+ BR HZ		0.0	0.00	29.98	30.18	3.4	14	3.5	14	14	12	14	04		
05	81	67	74	12	68	69	0	9	RA DZ FG+ FG BR		0.0	0.01	30.08	30.27	3.5	06	4.1	14	03	11	04	05		
06	85	69	77	15	67	69	0	12	FG+ BR		0.0	0.00	30.01	30.19	0.6	04	1.6	12	07	9	33	06		
07	93	64	79	18	63	68	0	14	BR		0.0	0.00	29.88	30.06	1.7	34	2.3	16	36	12	31	07		
08	89	68	79	18	66	70	0	14	FG+ FG BR HZ		0.0	0.00	29.83	30.00	0.8	13	2.5	12	19	8	17	08		
09	95*	67	81*	20	63	69	0	16	BR HZ		0.0	0.00	29.67	29.83	1.3	29	3.6	22	36	13	36	09		
10	83	63	73	12	58	64	0	8	RA BR		0.0	T	29.54	29.72	0.9	13	5.0	18	25	14	22	10		
11	69	52	61	1	39	50	4	0			0.0	0.00	29.50	29.70	11.6	34	13.0	26	34	21	32	11		
12	73	50	62	2	39	50	3	0			0.0	0.00	29.64	29.86	7.5	32	8.6	24	33	18	32	12		
13	71	50	61	2	42	51	4	0			0.0	0.00	29.82	30.02	0.6	31	2.2	15	28	12	26	13		
14	74	47	61	2	42	51	4	0			0.0	0.00	29.93	30.14	1.4	01	2.0	15	36	13	36	14		
15	77	46	62	4	47	54	3	0	MIFG		0.0	0.00	30.00	30.19	1.4	20	3.2	17	21	9	16	15		
16	79	51	65	7	52	58	0	0	HZ		0.0	0.00	29.95	30.14	4.1	18	4.4	16	21	13	19	16		
17	83	56	70	12	56	61	0	5	BR		0.0	0.00	29.91	30.10	3.7	18	4.2	17	25	13	23	17		
18	82	62	72	14	66	68	0	7	RA FG BR HZ		0.0	T	29.77	29.94	6.8	18	7.0	20	17	16	16	18		
19	82	73	78	20	68	71	0	13	RA		0.0	T	29.54	29.72	10.0	21	10.7	26	19	22	21	19		
20	78	53	66	9	47	56	0	1			0.0	0.00	29.66	29.89	6.5	29	7.0	25	28	21	28	20		
21	81	45	63	7	43	52	2	0			0.0	0.00	30.02	30.23	3.9	19	4.6	21	20	15	21	21		
22	83	53	68	12	54	60	0	3			0.0	0.00	30.03	30.21	5.4	20	6.0	23	22	17	18	22		
23	84	61	73	17	62	66	0	8	RA BR		0.0	T	29.77	29.93	10.9	22	11.2	29	24	22	24	23		
24	84	59	72	17	65	67	0	7	TS TSRA RA BR		0.0	1.43	29.67	29.87	2.8	08	10.2	29	02	22	02	24		
25	61	57	59	4	56	57	6	0	RA DZ BR		0.0	0.45	29.91	30.14	11.1	04	11.4	25	05	18	05	25		
26	67	61	64	9	62	63	1	0	RA DZ FG+ FG BR		0.0	1.44	30.00	30.18	6.6	04	6.8	29	25	18	25	26		
27	75	55	65	11	57	61	0	0	RA BR		0.0	0.21	29.91	30.11	5.8	27	9.5	22	27	17	28	27		
28	62	43	53	-1	37	46	12	0			0.0	0.00	30.18	30.40	9.1	01	9.2	31*	02	24*	03	28		
29	60	38	49*	-5	33	41	16	0			0.0	0.00	30.32	30.52	2.9	02	3.2	14	06	10	03	29		
30	65	35*	50	-4	36	43	15	0			0.0	0.00	30.26	30.45	1.3	21	1.9	12	26	8	23	30		
31	71	39	55	1	45	50	10	0	BCFG BR		0.0	0.00	30.14	30.31	4.0	20	4.4	20	24	15	21	31		

78.1	55.7	66.9	☼	54.2	59.5	2.6	4.7	< MONTHLY AVERAGES TOTALS >				0.0	3.54	29.91	30.10	0.3	27	5.6	< MONTHLY AVERAGES			
8.8	8.5	8.6		<-----DEPARTURE FROM NORMAL----->										-0.06	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3							

DEGREE DAYS				GREATEST 24-HR PRECIPITATION : 1.87 DATE : 24-25				SEA LEVEL PRESSURE			
MONTHLY				GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.59 29 0928			
TOTAL DEPARTURE				GREATEST SNOW DEPTH :				MINIMUM : 29.60 19 1754			
SEASON TO DATE				NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 2			
TOTAL DEPARTURE				THUNDERSTORMS : 1				MINIMUM TEMP <= 32 : 0			
HEATING : 80 -145 92 -161				PRECIPITATION >= 0.01 INCH : 5				PRECIPITATION >= 0.10 INCH : 4			
COOLING : 146 113 1844 416				SNOWFALL >= 1.0 INCH : 0				HEAVY FOG : 5			

**OCTOBER 2007
RICHMOND, VA**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
OCTOBER 2007

WBAN # 13740

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			
01													01												01	0.00	0.00	
02													02												02	0.00	0.00	
03						T							03												03	T	T	
04													04												04	0.00	0.00	
05							T	T					05			T	0.01	T							05	0.01	0.01	
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			T	T	T	T							10												10	T	T	
11													11												11	0.00	0.00	
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													18	T											18	T	T	
19													19	T											19	T	T	
20													20												20	0.00	0.00	
21													21												21	0.00	0.00	
22													22												22	0.00	0.00	
23													23												23	T	T	
24	T												24	0.03	0.07	0.09	T	0.15	0.04	T	0.01	0.22	0.24	0.17	24	1.43	1.43	
25	0.25	0.17		0.01	0.01								25	T		T	0.01	T	T	T	T	T	T	T	25	0.45	0.45	
26	0.02	T	T	0.01	T	T	T	T	0.31	0.11	0.02	0.02	26	0.04	0.07	0.14	0.06	0.50	0.06	0.01	0.05	0.01	0.01	T	T	26	1.44	1.44
27	T	T	0.01	0.10	0.07	0.03	T	T					27												27	0.21	0.21	
28													28												28	0.00	0.00	
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)	0.33	0.42	0.43	0.44	0.44	0.48	0.52	0.56	0.57	0.58	0.63	0.75
Ending Date	24	24	24	24	24	26	26	26	26	26	26	25
Ending Time (Hr/Min)	1156	1200	1201	1208	1208	1650	1650	1710	1728	1728	1650	0127

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 OCTOBER 2007

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							1.00	10.00	
03							0.50	10.00	
04							0.12	10.00	
05							0.12	10.00	
06							0.25	10.00	
07							3.00	10.00	
08							0.00	10.00	
09							5.00	10.00	
10							5.00	10.00	
11							7.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							9.00	10.00	
15							8.00	10.00	
16							6.00	10.00	
17							2.50	10.00	
18							0.50	10.00	
19							8.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							9.00	10.00	
23							5.00	10.00	
24							0.75	10.00	
25							1.75	10.00	
26							0.50	10.00	
27							4.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							6.00	10.00	
MONTHLY AVGS							5.26	10.00	
SUNSHINE (Minutes)									
Total : 0					Possible : 20853				
Percent Possible : 0									
NUMBER OF DAYS WITH : SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
MINIMUM VISIBILITY (MILES)									
<= .25			<= 3.0				>= 7.0		
4			12				13		

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

OCTOBER 2007

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
SUNRISE: 0605						OCT 01						SUNSET: 1753																	
01	FEW	250			10.00		57	53	55	87	0	00	30.24	30.43	01	FEW	002			4.00	BR	69	67	68	93	0	00	29.92	30.11
04	CLR	NC			10.00		56	52	54	87	0	00	30.23	30.42	04	FEW	001			3.00	BR	66	64	65	93	0	00	29.90	30.09
07	SCT	250			10.00		58	53	55	84	0	00	30.26	30.45	07	FEW	001			4.00	BR	66	63	64	90	0	00	29.92	30.11
10	SCT	250			10.00		72	55	62	55	9	12	30.25	30.44	10	CLR	NC			10.00		83	65	71	55	8	29	29.92	30.11
13	SCT	250			10.00		76	51	62	42	8	16	30.20	30.39	13	CLR	NC			10.00		90	61	71	38	0	00	29.86	30.04
16	SCT	250			10.00		78	53	63	42	9	11	30.14	30.33	16	FEW	070			10.00		92	59	71	33	10	36	29.82	30.01
19	SCT	250			10.00		68	59	63	73	8	12	30.14	30.33	19	FEW	070			10.00		81	63	69	54	0	00	29.83	30.02
22	BKN	250			10.00		64	59	61	84	6	11	30.16	30.35	22	CLR	NC			9.00		74	65	68	74	0	00	29.86	30.04
SUNRISE: 0605						OCT 02						SUNRISE: 0611						OCT 07						SUNSET: 1744					
01	SCT	250			10.00		61	59	60	93	0	00	30.12	30.31	01	CLR	NC			8.00		71	65	67	81	5	04	29.86	30.05
04	SCT	250			10.00		58	56	57	93	3	10	30.11	30.29	04	CLR	NC			4.00	BR	69	65	66	87	0	00	29.85	30.03
07	SCT	060			7.00		59	57	58	93	8	36	30.14	30.33	07	VV	001			0.00	FG	69	67	68	93	5	01	29.88	30.07
10	BKN	065			10.00		72	62	66	71	5	02	30.14	30.33	10	SCT	005			6.00	HZ	75	68	70	79	3	10	29.89	30.08
13	BKN	065			10.00		81	61	68	51	8	09	30.07	30.26	13	FEW	025			10.00		89	66	74	47	3	10	29.81	30.00
16	SCT	060			10.00		79	60	67	52	10	11	30.01	30.20	16	FEW	055			10.00		89	65	73	45	6	16	29.76	29.94
19	FEW	040			10.00		71	63	66	76	3	11	30.02	30.21	19	CLR	NC			9.00		78	66	70	67	0	00	29.75	29.94
22	FEW	040			10.00		66	62	64	87	0	00	30.01	30.20	22	CLR	NC			8.00		75	65	69	71	0	00	29.74	29.93
SUNRISE: 0606						OCT 03						SUNRISE: 0612						OCT 08						SUNSET: 1743					
01	SCT	060			7.00		66	63	64	90	0	00	29.98	30.17	01	CLR	NC			8.00		72	64	67	76	0	00	29.74	29.92
04	BKN	030			6.00	BR	66	63	64	90	5	03	29.96	30.15	04	CLR	NC			7.00		70	64	66	81	3	20	29.70	29.89
07	OVC	002			1.00	BR	67	65	66	93	5	01	29.98	30.16	07	FEW	150			5.00	HZ	71	64	67	79	3	26	29.71	29.89
10	OVC	004			2.00	BR	72	68	69	87	3	01	29.99	30.17	10	BKN	150			10.00		85	65	72	51	5	32	29.71	29.90
13	BKN	040			7.00		78	68	71	71	3	VR	29.95	30.14	13	SCT	080			10.00		92	60	71	34	0	00	29.64	29.83
16	SCT	250			10.00		83	67	72	59	0	00	29.89	30.08	16	SCT	080			10.00		92	61	72	36	0	00	29.57	29.76
19	SCT	250			10.00		74	67	69	79	0	00	29.91	30.10	19	SCT	250			9.00		78	64	69	62	5	17	29.58	29.77
22	BKN	032			10.00		73	68	70	84	0	00	29.94	30.13	22	OVC	250			10.00		83	60	68	46	8	27	29.57	29.76
SUNRISE: 0607						OCT 04						SUNRISE: 0613						OCT 09						SUNSET: 1741					
01	SCT	030			7.00		70	68	69	93	5	14	29.95	30.14	01	OVC	250			10.00		76	62	67	62	11	03	29.58	29.77
04	OVC	001			1.00	BR	69	67	68	93	3	13	29.95	30.14	04	OVC	150			10.00		72	63	66	73	7	03	29.58	29.77
07	VV	001			0.12	FG	70	68	69	93	0	00	29.99	30.18	07	OVC	046			10.00		71	62	65	73	0	00	29.61	29.80
10	BKN	150			3.00	HZ	79	70	73	74	0	00	30.01	30.20	10	OVC	050			10.00		76	51	62	42	0	00	29.61	29.80
13	BKN	250			10.00		88	66	73	48	0	00	29.98	30.17	13	BKN	055			10.00		83	51	64	33	3	34	29.53	29.72
16	BKN	250			10.00		86	65	72	50	7	14	29.95	30.14	16	FEW	050			10.00		81	56	66	42	11	21	29.47	29.66
19	OVC	250			10.00		76	65	69	69	9	14	29.99	30.18	19	CLR	NC			10.00		72	61	65	68	8	16	29.47	29.66
22	BKN	250			10.00		70	66	67	87	3	16	30.04	30.23	22	CLR	NC			7.00		66	60	62	81	3	14	29.47	29.65
SUNRISE: 0608						OCT 05						SUNRISE: 0613						OCT 10						SUNSET: 1740					
01	SCT	250			7.00		68	66	67	93	0	00	30.05	30.24	01	SCT	100			7.00		65	59	61	81	11	36	29.47	29.65
04	VV	001			0.25	FG	68	67	67	97	5	10	30.06	30.24	04	SCT	100			10.00		60	43	51	54	15	01	29.48	29.67
07	OVC	003			2.00	-DZ BR	70	68	69	93	0	00	30.10	30.29	07	FEW	095			10.00		57	42	50	57	14	01	29.52	29.71
10	OVC	017			10.00		74	68	70	82	8	05	30.13	30.32	10	BKN	060			10.00		62	40	51	45	16	36	29.53	29.72
13	OVC	026			10.00		77	68	71	74	6	06	30.09	30.28	13	BKN	120			10.00		65	38	52	37	13	33	29.49	29.68
16	OVC	049			10.00	-RA	76	70	72	82	3	07	30.06	30.25	16	SCT	065			10.00		65	33	50	30	14	33	29.48	29.67
19	BKN	055			10.00		73	69	70	87	5	04	30.07	30.25	19	SCT	080			10.00		60	35	48	39	15	32	29.54	29.73
22	SCT	250			9.00		71	68	69	90	5	10	30.07	30.26	22	BKN	070			10.00		57	36	47	46	8	30	29.57	29.76
SUNRISE: 0609						OCT 06						SUNRISE: 0614						OCT 11						SUNSET: 1738					
01	OVC	003			0.25	FG	70	68	69	93	0	00	30.06	30.25	01	FEW	075			10.00		52	37	45	57	8	28	29.57	29.76
04	OVC	011			6.00	BR	71	68	69	90	0	00	30.04	30.23	04	CLR	NC			10.00		52	38	45	59	8	31	29.58	29.77
07	OVC	015			10.00		71	67	68	87	0	00	30.05	30.24	07	CLR	NC			10.00		50	40	45	69	6	28	29.64	29.83
10	OVC	017			10.00		76	66	70	71	0	00	30.06	30.24	10	CLR	NC			10.00		66	40	53	39	10	34	29.68	29.87
13	BKN	045			10.00		81	66	71	60	5	34	30.00	30.19	13	SCT	055			10.00		69	40	54	35	10	35	29.65	29.84
16	SCT	050			10.00		82	64	70	55	0	00	29.94	30.13	16	SCT	065			10.00		70	39	54	32	10	35	29.65	29.84
19	SCT	250			10.00		74	66	69	76	0	00	29.94	30.13	19	BKN	065			10.00		63	40	51	43	7	34	29.70	29.89
22	CLR	NC			10.00		70	67	68	90	0	00	29.94	30.13	22	BKN	065			10.00		59	40	50	50	3	01	29.78	29.97

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

OCTOBER 2007

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	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL
SUNRISE: 0615						OCT 13						SUNSET: 1735						SUNRISE: 0621						OCT 19						SUNSET: 1727					
01	BKN	070				57	40	49	53	0	00	29.80	29.99	01	OVC	009			10.00			74	70	71	87	11	20	29.64	29.83						
04	OVC	065				57	42	50	57	0	00	29.80	30.00	04	OVC	019			10.00			73	69	70	87	8	16	29.62	29.80						
07	BKN	060				55	43	49	64	0	00	29.85	30.04	07	OVC	027			8.00			74	70	71	87	9	19	29.60	29.79						
10	CLR	NC				64	38	51	38	3	VR	29.88	30.07	10	OVC	140			10.00			79	68	72	69	13	21	29.58	29.76						
13	FEW	065				68	38	53	33	0	00	29.81	30.00	13	OVC	120			10.00			77	70	72	79	8	18	29.49	29.67						
16	CLR	NC				70	39	54	32	3	34	29.79	29.98	16	BKN	150			10.00			81	69	73	67	13	20	29.44	29.62						
19	CLR	NC				59	43	51	56	0	00	29.82	30.01	19	BKN	150			10.00			77	67	70	71	16	22	29.44	29.63						
22	CLR	NC				53	44	49	72	3	15	29.86	30.06	22	BKN	150			10.00			76	66	70	71	10	24	29.48	29.67						
SUNRISE: 0616						OCT 14						SUNRISE: 0622						OCT 20						SUNSET: 1726											
01	CLR	NC				50	46	48	86	9	02	29.89	30.08	01	OVC	120			10.00			73	57	63	57	8	28	29.54	29.72						
04	CLR	NC				50	42	46	74	3	03	29.90	30.09	04	SCT	250			10.00			66	55	60	68	6	29	29.55	29.74						
07	FEW	250				49	42	46	77	0	00	29.94	30.14	07	FEW	120			10.00			63	51	56	65	7	31	29.63	29.82						
10	FEW	250				67	39	53	36	0	00	29.98	30.17	10	FEW	120			10.00			73	48	59	41	14	31	29.69	29.88						
13	SCT	250				72	39	55	30	7	34	29.93	30.12	13	SCT	070			10.00			77	41	58	28	9	30	29.67	29.86						
16	FEW	250				73	38	55	28	0	00	29.92	30.11	16	FEW	075			10.00			76	42	58	30	9	30	29.71	29.90						
19	FEW	250				62	42	52	48	0	00	29.97	30.16	19	CLR	NC			10.00			60	44	52	56	5	17	29.80	29.99						
22	CLR	NC				56	44	50	64	0	00	29.99	30.18	22	CLR	NC			10.00			56	44	50	64	0	00	29.89	30.08						
SUNRISE: 0617						OCT 15						SUNRISE: 0623						OCT 21						SUNSET: 1725											
01	CLR	NC				50	44	47	80	0	00	30.00	30.19	01	CLR	NC			10.00			51	43	47	74	0	00	29.93	30.12						
04	CLR	NC				49	45	47	86	0	00	30.01	30.20	04	CLR	NC			10.00			47	42	45	83	0	00	29.98	30.17						
07	CLR	NC			MIFG	49	45	47	86	0	00	30.05	30.24	07	FEW	250			10.00			48	42	45	80	0	00	30.03	30.22						
10	FEW	250				69	51	59	53	7	30	30.06	30.25	10	CLR	NC			10.00			71	43	56	37	7	17	30.07	30.27						
13	BKN	250				75	47	59	37	0	00	30.00	30.19	13	FEW	100			10.00			79	38	58	23	14	23	30.05	30.24						
16	BKN	250				75	47	59	37	5	18	29.97	30.16	16	FEW	150			10.00			80	39	58	23	9	17	30.03	30.22						
19	BKN	250				64	50	56	61	3	16	29.96	30.16	19	FEW	150			10.00			64	45	54	50	3	15	30.07	30.27						
22	BKN	250				60	50	55	70	6	16	29.97	30.16	22	SCT	200			10.00			58	46	52	65	7	16	30.10	30.29						
SUNRISE: 0618						OCT 16						SUNRISE: 0624						OCT 22						SUNSET: 1723											
01	SCT	250				57	50	53	78	0	00	29.98	30.17	01	BKN	250			10.00			56	48	52	75	0	00	30.08	30.27						
04	FEW	250				55	49	52	80	0	00	29.98	30.16	04	SCT	250			10.00			54	50	52	86	0	00	30.07	30.26						
07	BKN	250				53	48	50	83	0	00	29.98	30.18	07	OVC	250			9.00			56	52	54	87	3	16	30.09	30.28						
10	OVC	250				71	55	62	57	7	20	29.99	30.18	10	BKN	250			10.00			74	58	64	58	10	21	30.10	30.29						
13	BKN	250				78	50	62	38	8	20	29.92	30.11	13	FEW	050			10.00			81	55	65	41	10	23	30.03	30.22						
16	BKN	250				76	51	62	42	8	18	29.90	30.09	16	FEW	120			10.00			81	55	65	41	13	19	29.96	30.14						
19	OVC	250				68	54	60	61	8	15	29.93	30.12	19	SCT	250			10.00			71	55	62	57	5	18	29.94	30.14						
22	BKN	250				64	57	60	78	8	16	29.94	30.13	22	BKN	250			10.00			66	57	61	73	8	19	29.94	30.13						
SUNRISE: 0619						OCT 17						SUNRISE: 0625						OCT 23						SUNSET: 1722											
01	SCT	250				61	57	59	87	5	15	29.94	30.13	01	BKN	250			10.00			64	58	60	81	7	19	29.90	30.09						
04	FEW	250				59	56	57	90	0	00	29.95	30.14	04	OVC	250			8.00			62	59	60	90	6	20	29.85	30.04						
07	FEW	100				57	54	55	90	0	00	29.96	30.15	07	BKN	150			5.00		BR	64	60	62	87	8	20	29.83	30.02						
10	BKN	250				74	54	62	50	6	20	29.96	30.15	10	BKN	250			10.00			78	62	68	58	20	23	29.79	29.98						
13	SCT	250				81	54	65	39	0	00	29.90	30.09	13	OVC	250			10.00			82	62	69	51	20	24	29.69	29.88						
16	FEW	250				82	54	65	38	7	20	29.86	30.05	16	OVC	200			10.00			82	62	69	51	13	23	29.65	29.83						
19	SCT	250				69	55	61	61	7	15	29.86	30.05	19	OVC	250			10.00			76	63	68	64	9	21	29.64	29.83						
22	BKN	250				65	60	62	84	6	16	29.88	30.07	22	OVC	250			10.00			75	64	68	69	7	20	29.64	29.83						
SUNRISE: 0620						OCT 18						SUNRISE: 0626						OCT 24						SUNSET: 1721											
01	FEW	250				65	61	63	87	7	19	29.85	30.04	01	BKN	250			10.00			75	67	70	76	9	20	29.63	29.82						
04	FEW	250				64	61	62	90	3	19	29.82	30.01	04	OVC	020			10.00			73	69	70	87	13	21	29.61	29.80						
07	VV	001				64	63	63	97	0	00	29.82	30.01	07	SCT	200			10.00			72	69	70	90	6	20	29.65	29.84						
10	OVC	250				73	66	69	79	6	21	29.81	30.00	10	BKN	060			10.00			82	70	74	67	11	22	29.68	29.86						
13	BKN	250				80	68	72	67	13	20	29.73	29.92	13	OVC	065			10.00			67	64	65	90	7	04	29.67	29.86						
16	BKN	150				80	67	71	65	8	17	29.68	29.87	16	OVC	005			7.00			67	64	65	90	8	05	29.68	29.87						
19	BKN	150				75	68	70	79	14	16	29.69	29.88	19	OVC	017			7.00		-RA	65	62	63	90	9	07	29.72	29.91						
22	BKN	200				72	68	69	87	8	19	29.69	29.88	22	OVC	035			2.00		-RA BR	64	63	63	97	14	06	29.75	29.94						

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

OCTOBER 2007

KRIC

WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Clد Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0627 OCT 25 SUNSET: 1720														
01	OVC	006			2.00	RA BR	59	56	57	90	13	03	29.80	29.99
04	OVC	004			2.00	-RA BR	58	56	57	93	11	03	29.83	30.02
07	OVC	002			4.00	BR	59	57	58	93	10	02	29.88	30.08
10	OVC	004			2.00	-RA BR	58	56	57	93	14	04	29.96	30.15
13	OVC	006			2.50	BR	57	55	56	93	15	05	29.96	30.16
16	OVC	009			2.00	BR	57	54	55	90	11	04	30.00	30.19
19	OVC	004			4.00	-DZ BR	59	56	57	90	10	06	30.02	30.21
22	OVC	010			4.00	-RA BR	61	58	59	90	8	06	30.04	30.24
SUNRISE: 0628 OCT 26 SUNSET: 1718														
01	OVC	005			3.00	-DZ BR	62	59	60	90	10	04	30.03	30.23
04	OVC	005			4.00	-DZ BR	62	60	61	93	11	05	30.02	30.21
07	OVC	003			2.00	-DZ BR	63	61	62	93	9	05	30.03	30.22
10	OVC	008			2.00	-RA BR	65	63	64	93	7	03	30.04	30.24
13	OVC	004			2.00	-RA BR	66	64	65	93	10	03	29.99	30.19
16	OVC	020			2.00	RA BR	66	63	64	90	9	04	29.95	30.14
19	OVC	008			5.00	-RA BR	66	64	65	93	3	33	29.95	30.14
22	OVC	001			0.75	-RA BR	66	64	65	93	0	00	29.94	30.13
SUNRISE: 0629 OCT 27 SUNSET: 1717														
01	OVC	016			7.00		71	68	69	90	9	18	29.90	30.09
04	OVC	011			5.00	RA BR	71	68	69	90	10	18	29.85	30.04
07	OVC	022			10.00	-RA	69	66	67	90	14	28	29.86	30.05
10	OVC	013			10.00		64	59	61	84	13	26	29.92	30.11
13	SCT	250			10.00		73	57	63	57	8	30	29.90	30.09
16	SCT	150			10.00		74	52	61	46	13	31	29.90	30.09
19	FEW	150			10.00		64	46	54	52	7	29	29.98	30.17
22	BKN	200			10.00		58	47	52	67	8	34	30.03	30.22
SUNRISE: 0630 OCT 28 SUNSET: 1716														
01	BKN	250			10.00		53	45	49	74	0	00	30.06	30.25
04	SCT	250			10.00		49	45	47	86	0	00	30.09	30.29
07	SCT	250			10.00		50	45	48	83	7	01	30.17	30.36
10	SCT	060			10.00		58	41	50	53	18	01	30.23	30.42
13	SCT	180			10.00		61	32	48	34	15	36	30.22	30.42
16	FEW	150			10.00		60	30	47	32	14	36	30.22	30.42
19	FEW	150			10.00		49	34	42	56	7	02	30.28	30.47
22	CLR	NC			10.00		46	32	40	58	7	01	30.32	30.51
SUNRISE: 0631 OCT 29 SUNSET: 1715														
01	CLR	NC			10.00		41	32	37	70	7	01	30.33	30.52
04	CLR	NC			10.00		38	31	35	76	6	02	30.33	30.52
07	FEW	250			10.00		39	31	36	73	3	05	30.38	30.58
10	SCT	250			10.00		53	35	45	51	6	02	30.39	30.58
13	FEW	250			10.00		57	32	46	39	0	00	30.33	30.53
16	FEW	250			10.00		58	30	46	35	0	00	30.28	30.48
19	CLR	NC			10.00		45	36	41	71	0	00	30.28	30.47
22	CLR	NC			10.00		40	35	38	82	0	00	30.27	30.47
SUNRISE: 0632 OCT 30 SUNSET: 1714														
01	CLR	NC			10.00		40	35	38	82	0	00	30.26	30.46
04	CLR	NC			10.00		37	33	35	86	0	00	30.27	30.47
07	CLR	NC			10.00		36	32	34	85	0	00	30.30	30.50
10	CLR	NC			10.00		56	33	46	42	6	27	30.32	30.51
13	CLR	NC			10.00		62	32	48	32	0	00	30.26	30.45
16	CLR	NC			10.00		64	34	50	33	5	20	30.21	30.40
19	CLR	NC			10.00		51	40	46	66	0	00	30.21	30.41
22	CLR	NC			10.00		47	40	44	77	3	15	30.22	30.41

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Clد Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0633 OCT 31 SUNSET: 1713														
01	CLR	NC			10.00		43	39	41	86	0	00	30.21	30.40
04	CLR	NC			6.00	BR	43	39	41	86	0	00	30.20	30.39
07	CLR	NC			9.00	BCFG	39	36	38	89	0	00	30.20	30.40
10	CLR	NC			10.00		59	47	53	65	5	19	30.19	30.38
13	CLR	NC			10.00		69	47	57	46	10	23	30.11	30.30
16	CLR	NC			10.00		70	48	58	46	10	21	30.04	30.23
19	FEW	045			10.00		58	50	54	75	3	14	30.04	30.24
22	CLR	NC			10.00		56	50	53	80	0	00	30.03	30.23

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.

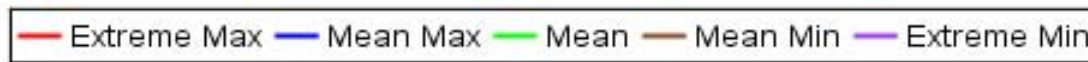
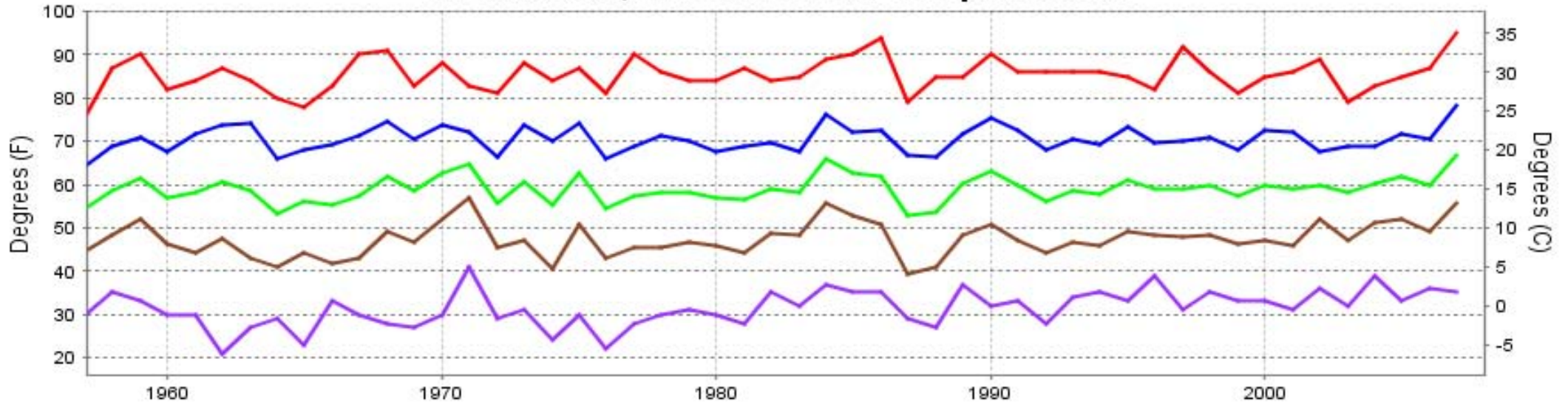
& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

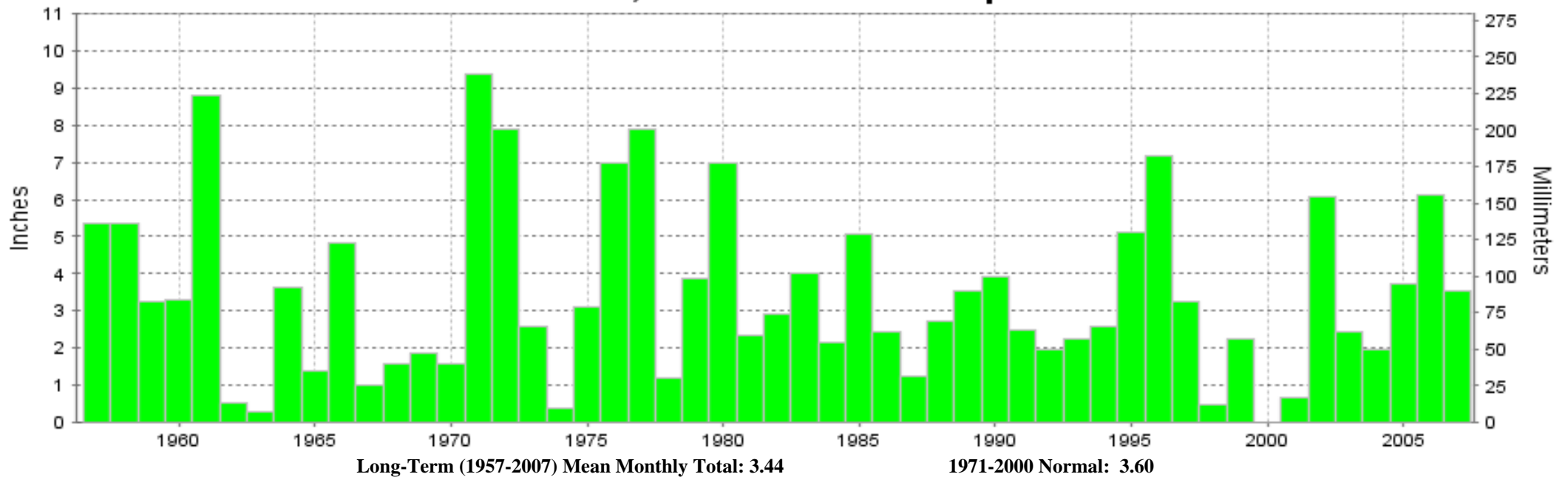
HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			61	55	58	81	29.91	30.10	8.27	4	1	14
02			61	55	57	82	29.91	30.10	8.23	4	1	20
03			60	55	57	83	29.91	30.09	7.78	3	1	18
04			59	54	57	83	29.91	30.10	7.43	4	1	11
05			59	54	56	84	29.92	30.11	7.55	4	1	13
06			59	54	56	85	29.93	30.12	7.59	4	1	13
07			59	54	57	84	29.94	30.13	6.87	4	1	24
08			63	56	59	79	29.95	30.14	7.07	5	0	21
09			67	56	60	69	29.96	30.15	7.77	7	1	26
10			70	55	62	60	29.95	30.14	8.77	8	2	26
11			72	54	62	54	29.94	30.13	9.48	7	1	26
12			74	53	62	51	29.93	30.11	8.96	8	2	26
13			75	53	63	49	29.90	30.09	9.40	7	2	26
14			76	53	63	47	29.89	30.07	9.27	9	2	26
15			76	52	63	46	29.88	30.06	9.26	8	2	26
16			76	53	62	48	29.87	30.06	9.39	8	0	23
17			74	53	62	51	29.87	30.06	9.48	7	0	23
18			69	54	61	61	29.88	30.07	9.34	6	1	11
19			67	55	60	66	29.89	30.08	9.48	5	1	11
20			65	55	59	71	29.90	30.09	9.52	5	1	10
21			64	55	59	73	29.90	30.10	9.29	4	1	11
22			63	55	59	75	29.91	30.10	8.96	4	1	12
23			63	55	59	77	29.91	30.10	8.53	5	0	18
24			62	55	58	79	29.91	30.09	8.44	4	1	24

RICHMOND, VA OCTOBER Temperatures



Long-Term (1957-2007) Mean: 59.0
1971-2000 Normal: 58.3

RICHMOND, VA OCTOBER Precipitation



Long-Term (1957-2007) Mean Monthly Total: 3.44

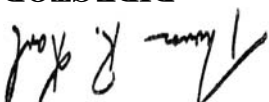
1971-2000 Normal: 3.60



OCTOBER 2007
RICHMOND, VA

LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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