



OCTOBER 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



**OCTOBER 2009
RICHMOND, VA**

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	70	50	60	-4	47	53	5	0			0.0	0.00	29.86	30.05	0.6	35	3.3	14	24	10	23	01		
02	76	50	63	0	55	59	2	0			0.0	0.00	29.74	29.93	8.4	20	8.8	24	20	21	22	02		
03	81	56	69	6	57	62	0	4	BR		0.0	0.00	29.67	29.87	2.9	24	4.1	24	22	16	24	03		
04	75	54	65	3	46	54	0	0			0.0	0.00	29.77	29.98	5.2	30	6.2	23	28	17	30	04		
05	73	54	64	2	50	56	1	0			0.0	0.00	29.85	30.04	2.5	24	3.9	14	24	13	23	05		
06	73	51	62	0	56	59	3	0	RA BR		0.0	T	29.73	29.94	2.9	18	4.7	20	21	15	21	06		
07	80	52	66	5	48	57	0	1	RA		0.0	0.01	29.62	29.82	8.8	28	12.6	39*	28	28	29	07		
08	72	42	57	-4	42	50	8	0			0.0	0.00	29.96	30.15	2.0	22	3.7	14	23	12	25	08		
09	86*	55	71	10	59	64	0	6			0.0	0.00	29.73	29.91	13.6	23	13.8	36	22	28	23	09		
10	78	54	66	5	58	62	0	1	RA BR		0.0	0.04	29.77	29.97	4.3	33	9.6	30	01	23	01	10		
11	71	46	59	-1	44	51	6	0			0.0	0.00	30.05	30.24	2.1	04	3.7	16	07	10	02	11		
12	58	47	53	-7	47	50	12	0	RA		0.0	0.01	30.09	30.28	5.0	03	5.6	16	04	13	01	12		
13	78	48	63	4	48	54	2	0			0.0	0.00	29.93	30.12	5.1	35	7.4	28	03	21	04	13		
14	55	46	51	-8	39	45	14	0	RA DZ BR		0.0	0.04	30.01	30.20	7.0	04	7.3	16	02	13	01	14		
15	54	46	50	-8	47	49	15	0	RA DZ BR		0.0	0.35	29.67	29.85	8.0	02	8.1	20	01	15	01	15		
16	49	43	46	-12	43	44	19	0	RA DZ BR		0.0	0.25	29.68	29.88	10.3	01	10.5	21	02	16	01	16		
17	48	42	45*	-13	41	43	20	0	RA DZ BR		0.0	0.16	29.79	29.99	12.5	36	12.6	26	02	21	36	17		
18	50	41	46	-12	38	42	19	0	RA		0.0	T	29.88	30.09	13.6	36	13.8	28	01	23	36	18		
19	60	37	49	-9	33	41	16	0			0.0	0.00	30.04	30.25	5.5	01	6.9	23	04	18	04	19		
20	71	35*	53	-4	39	46	12	0			0.0	0.00	30.04	30.23	2.2	20	2.4	15	12	9	20	20		
21	78	45	62	6	45	52	3	0			0.0	0.00	30.02	30.21	0.7	16	1.6	14	23	8	20	21		
22	76	49	63	7	46	53	2	0			0.0	0.00	29.89	30.08	6.6	23	6.9	24	25	18	25	22		
23	80	54	67	11	58	62	0	2	RA		0.0	0.01	29.78	29.97	8.1	19	8.3	24	18	17	18	23		
24	82	62	72*	17	64	67	0	7	RA BR		0.0	0.34	29.57	29.77	12.0	22	14.3	37	20	29*	27	24		
25	62	45	54	-1	43	49	11	0			0.0	0.00	29.92	30.11	6.4	03	6.5	24	02	21	03	25		
26	65	43	54	-1	46	50	11	0	RA BR		0.0	0.11	30.03	30.24	6.2	06	7.6	21	11	15	10	26		
27	59	53	56	2	54	55	9	0	RA BR		0.0	0.69	29.85	30.04	4.1	01	6.3			11	36	27		
28	75	57	66	12	55	59	0	1	RA BR		0.0	0.83	29.68	29.90	5.0	31	7.1	29	31	21	30	28		
29	63	51	57	3	51	54	8	0	RA DZ BR		0.0	T	30.01	30.23	4.7	06	6.0	15	03	12	11	29		
30	63	54	59	5	53	55	6	0	RA DZ BR		0.0	T	30.04	30.22	1.2	14	2.4	13	09	9	16	30		
31	73	59	66	12	63	64	0	1	RA DZ BR		0.0	0.75	29.77	29.95	6.4	21	8.5	25	21	21	22	31		
68.8		49.1	59.0	Σ	48.9	53.6	6.6	0.7	< MONTHLY AVERAGES TOTALS >		0.0	3.59	29.86	30.05	1.5	32	7.2	< MONTHLY AVERAGES						
-0.5	1.9	0.7	<-----DEPARTURE FROM NORMAL----->				-0.01	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																
DEGREE DAYS									GREATEST 24-HR PRECIPITATION : 1.25 DATE : 27-28				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY				SEASON TO DATE				GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.36 12 0954												
TOTAL DEPARTURE				TOTAL DEPARTURE				GREATEST SNOW DEPTH : DATE :				MINIMUM : 29.65 24 1454												
HEATING :		204	-21	209		-44	NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH: 13									
COOLING :		23	-10	1569		141					MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH: 8									
										THUNDERSTORMS : 0		HEAVY FOG : 0		SNOWFALL >= 1.0 INCH : 0										

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
OCTOBER 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	0.00	0.00	
03													03												03	0.00	0.00	
04													04												04	0.00	0.00	
05													05												05	0.00	0.00	
06													06		T										06	T	T	
07	0.01					T	T	T					07						T	T				T	07	0.01	0.01	
08													08												08	0.00	0.00	
09													09												09	0.00	0.00	
10				0.01	0.03		T			T	T	T	10		T	T									10	0.04	0.04	
11													11												11	0.00	0.00	
12													12			T	0.01	T							12	0.01	0.01	
13													13												13	0.00	0.00	
14													14		T	T	0.02			T	0.02	T	T	T	14	0.04	0.04	
15	T	0.01	T	0.03	T	T	0.09	0.05	0.03	0.04	0.03	0.01	15	T	T		T	T	0.01	T	0.04	0.01	T	T	15	0.35	0.35	
16	T	0.01	T	T	T	T	0.01	0.01	T	T			16	T	0.01	0.01	T	T	0.02	0.04	0.04	0.02	0.03	0.03	0.02	16	0.25	0.25
17	0.08	0.05	T	0.01	T			T	T	T			17						T	T		0.01	0.01	T	17	0.16	0.16	
18	T	T				T	T	T	T				18					T							18	T	T	
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									T	0.01		23	0.01	0.01	
24						T		T	T	T	0.01		24			0.20	0.01	0.01	0.11	T				24	0.34	0.34		
25													25												25	0.00	0.00	
26													26							0.01	0.03	0.02	0.02	0.03	26	0.11	0.11	
27	0.04	0.06	0.07	0.05	0.04	T	0.01						27			T	0.02	T	0.01	0.06	0.04	0.07	0.10	0.03	0.09	27	0.69	0.69
28	0.36	0.20	0.02	0.15	0.08	T	0.02						28												28	0.83	0.83	
29													29										T	T	T	29	T	T
30	T	T											30					T	T	T					30	T	T	
31	T	T	T	T		T	0.01	T	T	T	0.01	T	31		T	T							0.22	0.51	31	0.75	0.75	

* 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)	0.19	0.20	0.20	0.26	0.37	0.48	0.60	0.71	0.73	0.73	0.73	0.73
Ending Date	24	24	28	31	31	31	31	31	31	31	31	31
Ending Time (Hr/Min)	1551	1551	0059	2329	2339	2338	2346	2348	2355	2355	2355	2355

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 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							8.00	10.00	
03							5.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							4.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							7.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							4.00	10.00	
15							1.25	10.00	
16							2.00	10.00	
17							2.00	10.00	
18							7.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							6.00	10.00	
25							10.00	10.00	
26							1.00	10.00	
27							1.50	10.00	
28							1.00	10.00	
29							5.00	10.00	
30							3.00	10.00	
31							1.00	10.00	
MONTHLY AVGS							6.73	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			
0			8			18			

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

OCTOBER 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: 0615						OCT 13						SUNSET: 1735						SUNRISE: 0621						OCT 19						SUNSET: 1727																																																																																																																																					
01	OVC	070			10.00	52	46	49	80	3	34	29.98	30.17	01	SCT	110			10.00	45	34	40	65	9	35	30.00	30.19	04	CLR	NC			10.00	41	32	37	70	8	36	30.02	30.21	07	FEW	250			10.00	51	47	49	86	5	26	29.93	30.12	10	CLR	NC			10.00	68	52	59	57	7	27	29.92	30.11	13	SCT	250			10.00	75	52	62	45	5	30	29.86	30.05	16	BKN	250			10.00	77	51	62	40	8	35	29.85	30.04	19	BKN	250			10.00	67	50	58	55	10	05	29.93	30.12	22	BKN	250			10.00	60	39	50	46	15	03	29.98	30.18	22	CLR	NC			10.00	40	35	38	82	3	15	30.05	30.25																								
SUNRISE: 0616						OCT 14						SUNRISE: 0622						OCT 20						SUNSET: 1726																																																																																																																																											
01	SCT	250			10.00	54	39	47	57	9	03	30.03	30.22	01	CLR	NC			10.00	39	34	37	82	0	00	30.05	30.24	04	CLR	NC			10.00	50	37	44	61	7	03	30.04	30.23	07	CLR	NC			10.00	48	36	43	63	8	04	30.06	30.26	10	OVC	200			10.00	52	37	45	57	8	06	30.07	30.26	13	OVC	180			10.00	54	36	46	51	6	05	30.04	30.23	16	OVC	140			10.00	50	41	46	71	5	06	29.98	30.17	19	OVC	055			10.00	49	39	44	69	7	04	29.95	30.14	22	OVC	040			10.00	47	43	45	86	8	02	29.93	30.12	22	SCT	250			10.00	54	44	49	69	0	00	30.03	30.22																								
SUNRISE: 0617						OCT 15						SUNRISE: 0623						OCT 21						SUNSET: 1725																																																																																																																																											
01	OVC	013			2.00	-DZ BR	46	44	45	93	7	03	29.87	30.07	01	FEW	250			10.00	49	44	47	83	0	00	30.04	30.23	04	OVC	017			4.00	-RA BR	46	44	45	93	9	03	29.79	29.98	07	CLR	NC			10.00	47	42	45	83	0	00	30.03	30.22	10	OVC	005			1.25	-RA BR	48	45	47	89	7	02	29.75	29.94	13	CLR	NC			10.00	50	48	49	93	7	01	29.70	29.90	16	OVC	005			1.75	-RA BR	52	50	51	93	9	01	29.59	29.78	19	OVC	005			7.00	-RA	52	50	51	93	9	01	29.59	29.78	22	OVC	009			2.00	-RA BR	53	51	52	93	7	01	29.53	29.72	22	CLR	NC			10.00	77	43	59	30	5	09	30.02	30.21																		
SUNRISE: 0618						OCT 16						SUNRISE: 0624						OCT 22						SUNSET: 1723																																																																																																																																											
01	OVC	007			2.00	-RA BR	48	46	47	93	9	01	29.57	29.77	01	CLR	NC			10.00	54	46	50	75	0	00	29.96	30.15	04	OVC	011			2.50	-DZ BR	45	43	44	93	13	01	29.59	29.78	07	OVC	005			4.00	-DZ BR	43	41	42	93	10	01	29.65	29.84	10	OVC	005			10.00		45	42	44	89	9	03	29.71	29.91	13	OVC	013			2.00	-RA BR	48	45	47	89	8	36	29.69	29.88	16	OVC	012			2.00	-DZ BR	47	44	46	89	10	01	29.70	29.90	19	OVC	020			2.00	-RA BR	45	42	44	89	9	02	29.76	29.95	22	OVC	012			2.00	-RA BR	44	42	43	93	10	02	29.74	29.93	22	BKN	250			10.00		66	47	56	51	9	23	29.93	30.12															
SUNRISE: 0619						OCT 17						SUNRISE: 0625						OCT 23						SUNSET: 1722																																																																																																																																											
01	OVC	014			2.00	-RA BR	43	41	42	93	9	35	29.75	29.95	01	OVC	140			10.00	57	50	53	78	6	22	29.85	30.03	04	OVC	007			4.00	-DZ BR	43	41	42	93	10	36	29.74	29.93	07	BKN	150			10.00		57	51	54	80	0	00	29.83	30.02	10	OVC	011			10.00		44	41	43	89	10	35	29.76	29.96	13	OVC	013			2.00	-RA BR	45	42	44	89	13	35	29.82	30.01	16	OVC	025			10.00		47	43	45	86	10	36	29.80	30.00	19	OVC	015			10.00		47	42	45	83	14	01	29.80	30.00	22	OVC	025			4.00	-RA BR	45	42	44	89	16	36	29.83	30.02	22	BKN	250			5.00	-RA BR	43	40	42	89	13	35	29.83	30.02	22	OVC	090			10.00	-RA	69	63	65	81	10	19	29.72	29.91
SUNRISE: 0620						OCT 18						SUNRISE: 0626						OCT 24						SUNSET: 1721																																																																																																																																											
01	OVC	011			7.00	-RA	42	38	40	86	18	35	29.79	29.99	01	BKN	250			10.00	71	62	65	73	15	20	29.68	29.87	04	OVC	009			10.00		42	38	40	86	18	01	29.79	29.98	07	BKN	150			10.00		41	38	40	89	17	36	29.84	30.04	10	OVC	015			10.00		44	38	41	80	18	36	29.90	30.09	13	OVC	017			10.00		47	39	43	74	14	01	29.89	30.09	16	OVC	034			10.00		49	39	44	69	14	35	29.92	30.11	19	OVC	065			10.00		49	38	44	66	9	35	29.97	30.17	22	BKN	100			10.00		48	37	43	66	11	35	29.99	30.19	22	OVC	150			10.00		71	63	66	76	16	20	29.61	29.80															

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
OCTOBER 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: 0627						OCT 25						SUNSET: 1720					
01	BKN	250				61	56	58	84	8	02	29.69	29.88				
04	OVC	043				56	45	50	67	10	04	29.77	29.96				
07	BKN	140				52	40	46	64	10	02	29.89	30.08				
10	OVC	250				58	38	48	48	14	02	29.96	30.15				
13	OVC	200				61	39	50	44	11	02	29.96	30.15				
16	OVC	200				59	40	50	50	3	04	29.95	30.14				
19	BKN	150				53	45	49	74	0	00	29.99	30.19				
22	BKN	250				49	44	47	83	0	00	30.02	30.21				
SUNRISE: 0628						OCT 26						SUNSET: 1718					
01	CLR	NC				45	42	44	89	3	35	30.03	30.22				
04	CLR	NC				44	40	42	86	5	01	30.05	30.24				
07	OVC	250				45	41	43	86	6	02	30.08	30.27				
10	OVC	250				60	47	53	62	9	07	30.11	30.30				
13	OVC	250				64	44	54	48	7	10	30.06	30.26				
16	BKN	200				63	48	55	58	8	09	30.04	30.23				
19	OVC	055				60	50	55	70	8	08	30.02	30.21				
22	OVC	028				53	50	51	90	7	04	30.01	30.20				
SUNRISE: 0629						OCT 27						SUNSET: 1717					
01	OVC	013				54	52	53	93	7	02	29.93	30.12				
04	OVC	004				54	52	53	93	10	35	29.90	30.09				
07	OVC	031				54	52	53	93	8	04	29.86	30.06				
10	OVC	006				58	54	56	87	6	34	29.88	30.08				
13	OVC	008				58	55	56	90	7	32	29.84	30.03				
16	OVC	006				58	55	56	90	5	33	29.83	30.02				
19	OVC	007				57	55	56	93	3	09	29.83	30.02				
22	OVC	048				57	55	56	93	7	11	29.76	29.95				
SUNRISE: 0630						OCT 28						SUNSET: 1716					
01	OVC	010				58	56	57	93	6	15	29.67	29.86				
04	BKN	018				58	57	57	97	6	34	29.63	29.82				
07	OVC	003				58	57	57	97	7	34	29.65	29.84				
10	BKN	005				65	59	61	81	9	28	29.68	29.87				
13	FEW	250				73	54	62	52	14	30	29.67	29.85				
16	FEW	045				73	54	62	52	11	30	29.70	29.88				
19	FEW	050				62	54	58	75	0	00	29.77	29.96				
22	CLR	NC				61	52	56	72	10	02	29.85	30.04				
SUNRISE: 0631						OCT 29						SUNSET: 1715					
01	CLR	NC				56	49	52	78	6	36	29.90	30.09				
04	CLR	NC				53	48	50	83	6	01	29.94	30.13				
07	OVC	025				56	50	53	80	9	02	30.02	30.22				
10	OVC	021				60	52	56	75	7	04	30.07	30.27				
13	OVC	021				62	53	57	73	5	07	30.06	30.25				
16	OVC	040				61	52	56	72	6	08	30.06	30.25				
19	OVC	025				58	52	55	81	5	10	30.09	30.29				
22	OVC	025				56	52	54	87	6	09	30.10	30.29				
SUNRISE: 0632						OCT 30						SUNSET: 1714					
01	OVC	019				55	53	54	93	5	09	30.07	30.27				
04	OVC	019				55	52	53	90	0	00	30.08	30.27				
07	OVC	019				54	51	52	90	0	00	30.10	30.29				
10	OVC	019				57	49	53	75	0	00	30.10	30.29				
13	OVC	030				62	51	56	67	3	VR	30.02	30.22				
16	OVC	021				62	53	57	73	7	19	29.97	30.16				
19	OVC	025				59	55	57	87	3	22	29.97	30.16				
22	OVC	020				59	55	57	90	0	00	29.93	30.13				

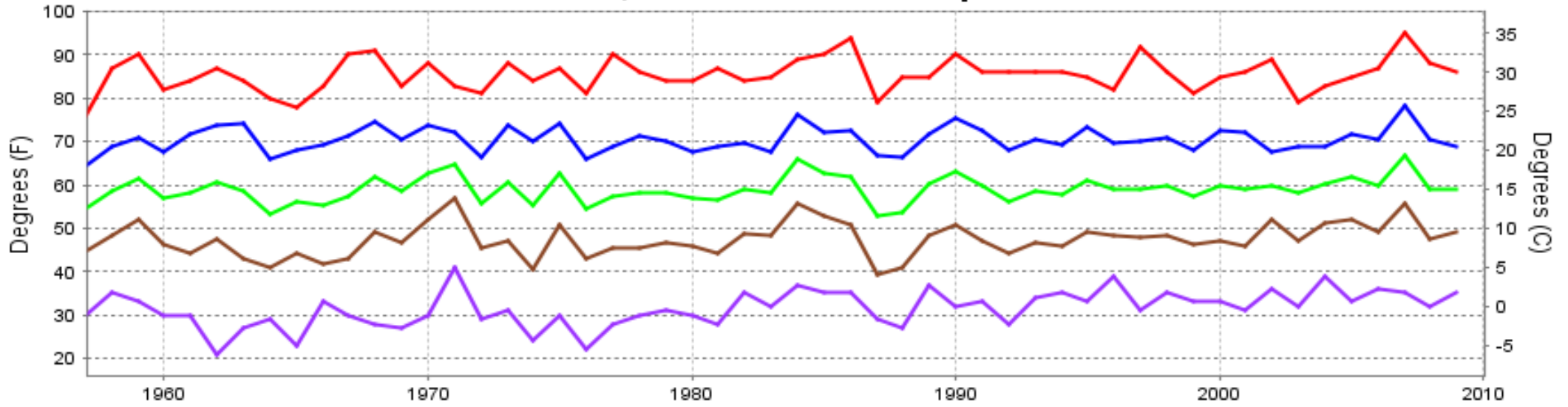
HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)						
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL			
SUNRISE: 0633						OCT 31						SUNSET: 1713					
01	OVC	006				59	57	58	93	6	24	29.88	30.08				
04	OVC	010				59	57	58	93	3	25	29.83	30.03				
07	OVC	004				59	58	58	97	6	20	29.80	29.99				
10	OVC	004				64	62	63	93	10	20	29.78	29.97				
13	OVC	008				70	67	68	90	13	21	29.70	29.89				
16	BKN	030				73	67	69	82	16	22	29.68	29.87				
19	SCT	070				69	67	68	93	6	19	29.70	29.89				
22	OVC	060				71	68	69	90	7	25	29.71	29.90				

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			54	48	51	82	29.86	30.05	8.15	6	3	34
02			54	48	51	82	29.85	30.04	8.48	6	3	34
03			53	48	50	83	29.85	30.04	8.52	6	3	35
04			53	48	50	83	29.85	30.04	8.45	5	3	34
05			53	47	50	83	29.85	30.05	8.69	6	2	36
06			52	47	50	84	29.86	30.05	8.77	6	2	35
07			53	48	50	84	29.87	30.07	8.64	6	2	36
08			56	49	52	78	29.89	30.08	8.81	7	2	36
09			59	49	54	70	29.89	30.09	9.02	8	2	34
10			62	49	55	64	29.89	30.08	9.19	9	3	32
11			64	49	56	60	29.88	30.07	9.49	9	3	32
12			66	49	57	56	29.87	30.06	9.64	10	3	31
13			67	48	57	55	29.85	30.04	9.65	10	3	31
14			67	48	57	54	29.83	30.02	9.65	11	3	31
15			67	48	57	55	29.82	30.01	9.74	9	4	31
16			66	49	57	57	29.83	30.02	9.39	9	3	31
17			65	49	56	61	29.83	30.02	9.35	8	3	32
18			62	50	55	67	29.84	30.03	9.13	6	2	34
19			60	50	55	71	29.85	30.04	8.85	6	2	35
20			59	50	54	75	29.86	30.05	8.56	6	3	01
21			58	50	54	76	29.86	30.05	8.82	6	2	36
22			57	50	53	79	29.86	30.05	8.71	6	2	36
23			56	50	53	80	29.86	30.05	8.47	6	3	34
24			55	49	52	81	29.85	30.04	8.31	6	2	36

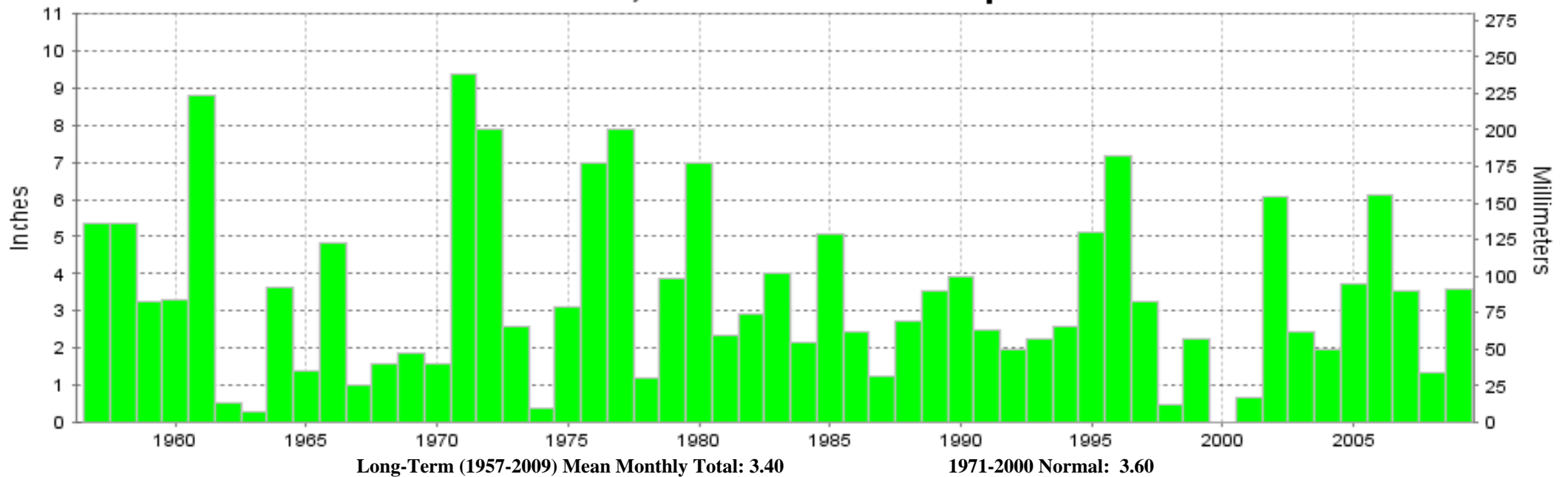
RICHMOND, VA OCTOBER Temperatures



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

Long-Term (1957-2009) Mean: 58.9
1971-2000 Normal: 58.3

RICHMOND, VA OCTOBER Precipitation



Long-Term (1957-2009) Mean Monthly Total: 3.40

1971-2000 Normal: 3.60



OCTOBER 2009
RICHMOND, VA

LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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