



SEPTEMBER 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	78	57	68	-6	52	58	0	3			0.0	0.00	30.04	30.24	8.8	04	9.1	23	04	17	05	01		
02	77	56	67	-7	55	60	0	2			0.0	0.00	30.05	30.23	7.1	05	7.6	25	06	16	04	02		
03	78	59	69	-4	59	62	0	4			0.0	0.00	29.91	30.10	6.3	03	6.9	18	02	14	04	03		
04	85	61	73	0	56	62	0	8			0.0	0.00	29.85	30.05	4.5	01	5.3	21	02	15	01	04		
05	88	61	75	2	59	65	0	10			0.0	0.00	29.96	30.16	2.2	08	2.8	17	10	12	03	05		
06	86	66	76	4	60	65	0	11			0.0	0.00	30.04	30.23	5.7	06	6.7	20	04	14	04	06		
07	80	67	74	2	67	68	0	9	RA BR		0.0	0.30	29.96	30.12	7.1	06	7.5	26	10	18	10	07		
08	72	64	68	-4	65	66	0	3	RA BR		0.0	0.51	29.84	30.03	8.7	03	9.3	23	03	17	02	08		
09	81	61	71	-1	59	63	0	6	RA BR		0.0	T	29.93	30.11	7.4	03	8.4	25	03	21	04	09		
10	74	60	67	-4	59	62	0	2	RA BR		0.0	0.04	30.04	30.22	10.4	02	11.4	23	34	18	05	10		
11	80	59	70	-1	57	61	0	5	RA		0.0	T	29.90	30.08	9.3	32	9.6	31	31	14	31	11		
12	78	57	68	-3	58	62	0	3			0.0	0.00	29.81	29.99	3.7	34	4.2	8	02	8	02	12		
13	83	62	73	2	60	64	0	8			0.0	0.00	29.80	29.98	5.6	34	6.0	12	01	12	01	13		
14	85	61	73	2	59	64	0	8			0.0	0.00	29.82	30.01	2.6	34	3.5	16	35	12	35	14		
15	86	61	74	4	62	66	0	9			0.0	0.00	29.80	29.99	1.2	13	2.2	12	07	9	08	15		
16	80	65	73	3	65	67	0	8	RA BR HZ		0.0	T	29.85	30.06	5.5	06	5.7	23	06	17	05	16		
17	74	64	69	-1	62	65	0	4			0.0	0.00	29.95	30.15	6.0	08	6.7	22	19	12	10	17		
18	78	61	70	0	61	63	0	5			0.0	0.00	29.93	30.12	3.7	22	4.1	16	21	12	25	18		
19	77	57	67	-3	59	62	0	2	FG BR		0.0	0.00	30.01	30.22	4.6	07	5.0	25	15	14	05	19		
20	79	53	66	-3	52	58	0	1			0.0	0.00	30.11	30.30	2.9	09	3.8	16	12	9	10	20		
21	82	54	68	0	58	62	0	3			0.0	0.00	30.07	30.26	3.1	13	3.9	17	13	14	13	21		
22	80	64	72	4	65	68	0	7	RA		0.0	T	30.04	30.23	3.0	11	3.4	15	15	12	15	22		
23	88	69	79	11	69	71	0	14	RA FG BR HZ		0.0	0.01	29.99	30.16	2.4	21	2.4	22	25	18	25	23		
24	90*	70	80*	13	69	72	0	15	TS RA BR HZ		0.0	0.22	29.87	30.06	0.7	13	4.4	22	35	17	14	24		
25	73	63	68	1	61	64	0	3	RA BR		0.0	0.30	29.96	30.17	6.1	05	6.6	22	04	16	05	25		
26	68	61	65	-1	58	60	0	0	RA BR		0.0	0.62	29.92	30.12	5.3	08	6.8	21	11	15	11	26		
27	80	56	68	2	59	63	0	3	RA BR		0.0	0.37	29.55	29.71	5.5	28	7.6	25	27	20	28	27		
28	84	54	69	3	53	59	0	4	RA		0.0	0.09	29.46	29.65	8.1	24	10.7	36*	25	26*	23	28		
29	71	53	62*	-3	43	52	3	0			0.0	0.00	29.57	29.78	10.1	29	10.5	29	27	22	27	29		
30	73	52*	63	-2	47	54	2	0			0.0	0.00	29.74	29.95	4.9	32	5.5	18	29	14	29	30		

79.6	60.3	70.0	☼	58.9	62.9	0.2	5.3	< MONTHLY AVERAGES TOTALS >				0.0	2.46	29.90	30.08	2.8	03	6.3	< MONTHLY AVERAGES			
-0.1	0.4	0.2		-----DEPARTURE FROM NORMAL ----->						-1.52	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS								GREATEST 24-HR PRECIPITATION : 0.99 DATE : 26-27				SEA LEVEL PRESSURE				DATE TIME						
MONTHLY TOTAL DEPARTURE				SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.34 20 0954										
								GREATEST SNOW DEPTH : DATE :				MINIMUM : 29.50 28 1454										
HEATING :		5 -22		5 -23				NUMBER OF DAYS WITH ->		MAXIMUM TEMP >= 90 : 1		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH : 9								
COOLING :		160 -27		1546 151						MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH : 6								
										THUNDERSTORMS : 1		HEAVY FOG : 0		SNOWFALL >= 1.0 INCH : 0								

**SEPTEMBER 2009
RICHMOND, VA**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
SEPTEMBER 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												06	0.00	0.00	
07												0.11	07	T	0.09	0.02			T	T	T	0.02	0.03	0.02	0.01	07	0.30	0.30
08	0.09	0.03	0.17	0.06	0.09	0.04	0.03	T	T	T		T	08		T										08	0.51	0.51	
09													09									T	T	T		09	T	T
10	T			T	0.02	0.02	T						10					T	T					T	10	0.04	0.04	
11	T												11												11	T	T	
12													12												12	0.00	0.00	
13													13												13	0.00	0.00	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16													16							T	T	T			16	T	T	
17													17												17	0.00	0.00	
18													18												18	0.00	0.00	
19													19												19	0.00	0.00	
20													20												20	0.00	0.00	
21													21												21	0.00	0.00	
22													22				T		T						22	T	T	
23													23				T								23	0.01	0.01	
24													24			0.01							T	0.01	24	0.22	0.22	
25	0.02	0.15	0.05	0.01	T		0.01	0.04	0.01	0.01	T		25			0.18	0.03							25	0.30	0.30		
26													26		T	T	T	T	T	T	0.02	0.04	0.30	0.26	26	0.62	0.62	
27	0.18	0.03	0.03	T	0.02	0.02	0.09						27												27	0.37	0.37	
28													28			0.01	0.08								28	0.09	0.09	
29													29												29	0.00	0.00	
30													30												30	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)	0.12	0.18	0.18	0.19	0.24	0.33	0.40	0.46	0.58	0.67	0.74	0.75
Ending Date	24	24	24	26	26	26	26	27	27	27	27	27
Ending Time (Hr/Min)	1646	1646	1646	2257	2257	2317	2329	0003	0007	0026	0030	0030

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 SEPTEMBER 2009

Ceilometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR-SS), or midnight to midnight (MN-MN).

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0-2 oktas, Partly Cloudy = 3-6 oktas, Cloudy = 7-8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

ADDITIONAL NOTES:

Station Augmentation-SANDSTON COOP
Lat/Lon:37.54417/-77.27583 Elevation:165
Distance:4 MI Dir:E
Augmented Elements:Temp, Precip, Snow
Equipment:MMTS, SRG, Snowboard

Date	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			Sky Cover	Satellite	Sky Cover	Satellite			
01							10.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							1.25	10.00	
08							3.00	10.00	
09							3.00	10.00	
10							3.00	10.00	
11							7.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							9.00	10.00	
15							7.00	10.00	
16							4.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							0.50	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							0.50	10.00	
24							5.00	10.00	
25							3.00	10.00	
26							2.00	10.00	
27							1.00	10.00	
28							9.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
MONTHLY AVGS							6.94	10.00	
SUNSHINE (Minutes)									
Total : 0					Possible : 22333				
Percent Possible : 0									
NUMBER OF DAYS WITH : SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
MINIMUM VISIBILITY (MILES)									
<= .25			<= 3.0				>= 7.0		
0			9				19		

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

SEPTEMBER 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: 0539 SEP 01						SUNSET: 1839						SUNRISE: 0544 SEP 07						SUNSET: 1830											
01	CLR	NC			10.00	61	56	58	84	8	03	30.00	30.19	01	FEW	200			9.00	BR	67	64	65	90	7	05	30.03	30.22	
04	CLR	NC			10.00	58	52	55	81	8	02	30.01	30.20	04	OVC	003			3.00	BR	68	66	67	93	9	05	29.99	30.18	
07	SCT	250			10.00	60	52	56	75	8	02	30.05	30.25	07	OVC	005			7.00		69	66	67	90	7	06	30.00	30.19	
10	SCT	250			10.00	72	56	63	57	9	04	30.08	30.27	10	BKN	013			10.00		75	67	70	76	13	04	29.97	30.16	
13	BKN	250			10.00	75	53	62	46	13	05	30.06	30.25	13	OVC	050			10.00		77	69	72	76	11	10	29.92	30.11	
16	SCT	250			10.00	75	52	62	45	13	07	30.03	30.22	16	OVC	060			10.00		72	67	69	84	7	06	29.89	30.08	
19	FEW	050			10.00	66	51	58	59	7	04	30.04	30.24	19	OVC	080			10.00		71	67	68	87	5	07	29.87	30.06	
22	CLR	NC			10.00	62	52	56	70	7	04	30.07	30.25	22	OVC	033			6.00	-RA BR	69	67	68	93	3	06	29.87	30.06	
SUNRISE: 0540 SEP 02						SUNSET: 1837						SUNRISE: 0545 SEP 08						SUNSET: 1828											
01	CLR	NC			10.00	58	51	54	78	6	03	30.06	30.25	01	OVC	040			3.00	RA BR	69	67	68	93	8	07	29.84	30.03	
04	FEW	040			10.00	56	52	54	87	7	02	30.04	30.23	04	OVC	015			4.00	RA BR	69	67	68	93	10	05	29.82	30.01	
07	FEW	250			10.00	61	55	58	81	8	02	30.08	30.28	07	OVC	012			6.00	-RA BR	69	67	68	93	9	07	29.83	30.02	
10	SCT	250			10.00	72	55	62	55	10	04	30.09	30.27	10	OVC	014			10.00		70	67	68	90	8	03	29.84	30.03	
13	BKN	250			10.00	74	53	62	48	9	08	30.06	30.25	13	OVC	011			10.00		72	65	68	79	15	02	29.85	30.03	
16	BKN	250			10.00	75	56	64	52	10	08	30.02	30.21	16	OVC	019			10.00		71	63	66	76	11	01	29.84	30.03	
19	BKN	250			10.00	69	56	61	63	6	07	30.01	30.20	19	BKN	140			10.00		68	62	64	81	8	02	29.85	30.04	
22	BKN	250			10.00	64	57	60	78	5	05	30.01	30.20	22	BKN	140			10.00		66	61	63	84	6	03	29.87	30.06	
SUNRISE: 0541 SEP 03						SUNSET: 1836						SUNRISE: 0546 SEP 09						SUNSET: 1827											
01	OVC	250			10.00	61	57	59	87	6	01	29.97	30.16	01	BKN	140			10.00		63	60	61	90	6	01	29.87	30.06	
04	OVC	250			10.00	59	56	57	90	6	02	29.95	30.14	04	FEW	150			10.00		62	59	60	90	5	34	29.87	30.06	
07	SCT	150			10.00	61	57	59	87	8	02	29.96	30.15	07	SCT	250			8.00		64	60	62	87	5	35	29.91	30.10	
10	BKN	250			10.00	74	59	65	60	11	03	29.95	30.14	10	BKN	250			10.00		77	61	67	58	13	03	29.93	30.12	
13	BKN	250			10.00	76	60	66	58	9	07	29.90	30.09	13	BKN	150			10.00		77	59	66	54	11	03	29.92	30.11	
16	BKN	150			10.00	77	61	67	58	10	05	29.86	30.05	16	SCT	150			10.00		77	58	65	52	18	04	29.91	30.10	
19	SCT	250			10.00	70	60	64	71	3	03	29.84	30.03	19	BKN	048			10.00		70	57	62	64	11	08	29.96	30.15	
22	SCT	250			10.00	65	59	61	81	0	00	29.86	30.05	22	OVC	011			3.00	-RA BR	64	63	63	97	8	02	30.00	30.19	
SUNRISE: 0542 SEP 04						SUNSET: 1834						SUNRISE: 0547 SEP 10						SUNSET: 1825											
01	BKN	150			10.00	62	57	59	84	3	35	29.84	30.03	01	OVC	040			3.00	BR	64	62	63	93	10	01	29.99	30.18	
04	OVC	150			10.00	62	55	58	78	5	34	29.83	30.02	04	OVC	005			4.00	-RA BR	64	62	63	93	8	36	30.00	30.19	
07	SCT	250			10.00	62	54	58	75	6	34	29.86	30.05	07	BKN	040			7.00		64	61	62	90	10	02	30.04	30.23	
10	SCT	250			10.00	78	52	63	40	10	03	29.88	30.07	10	OVC	040			7.00		68	61	64	78	13	04	30.08	30.27	
13	SCT	250			10.00	82	56	66	41	3	VR	29.85	30.04	13	BKN	040			10.00		71	57	63	61	10	03	30.06	30.24	
16	BKN	250			10.00	83	57	67	41	0	00	29.85	30.03	16	BKN	060			10.00		68	58	62	71	11	06	30.05	30.24	
19	SCT	250			10.00	77	57	65	50	3	04	29.87	30.06	19	OVC	035			10.00		64	57	60	78	11	01	30.05	30.24	
22	BKN	250			10.00	70	59	63	68	0	00	29.91	30.10	22	OVC	025			10.00		63	56	59	78	9	34	30.02	30.21	
SUNRISE: 0543 SEP 05						SUNSET: 1833						SUNRISE: 0548 SEP 11						SUNSET: 1824											
01	SCT	250			10.00	64	58	60	81	0	00	29.92	30.11	01	OVC	020			7.00		59	55	57	87	11	34	29.98	30.16	
04	CLR	NC			10.00	63	58	60	84	0	00	29.93	30.12	04	BKN	020			10.00		59	54	56	84	14	31	29.94	30.14	
07	FEW	200			10.00	66	60	62	81	0	00	29.98	30.17	07	BKN	035			10.00		61	55	58	81	11	33	29.94	30.13	
10	FEW	200			10.00	82	58	67	44	3	35	30.00	30.19	10	BKN	033			10.00		67	57	61	70	13	32	29.93	30.12	
13	SCT	200			10.00	88	58	69	36	5	VR	29.98	30.16	13	SCT	030			10.00		77	60	66	56	14	33	29.86	30.05	
16	BKN	250			10.00	87	58	69	37	8	05	29.95	30.14	16	SCT	250			10.00		79	56	65	45	13	32	29.82	30.01	
19	SCT	250			10.00	77	58	65	52	5	11	29.96	30.15	19	SCT	050			10.00		71	60	64	68	3	30	29.84	30.03	
22	BKN	250			10.00	69	60	64	73	0	00	30.01	30.20	22	FEW	065			10.00		64	59	61	84	5	02	29.87	30.06	
SUNRISE: 0543 SEP 06						SUNSET: 1831						SUNRISE: 0548 SEP 12						SUNSET: 1822											
01	OVC	100			10.00	70	62	65	76	0	00	30.02	30.21	01	FEW	055			10.00		63	57	60	81	3	31	29.85	30.04	
04	OVC	090			10.00	70	61	65	73	3	03	30.02	30.21	04	FEW	050			10.00		60	56	58	87	0	00	29.82	30.01	
07	SCT	250			10.00	69	59	63	71	5	04	30.07	30.26	07	CLR	NC			10.00		60	57	58	90	0	00	29.84	30.03	
10	BKN	250			10.00	82	60	68	47	10	05	30.07	30.26	10	FEW	044			10.00		73	57	63	57	5	02	29.82	30.01	
13	OVC	250			10.00	84	58	68	41	11	05	30.06	30.24	13	BKN	040			10.00		75	57	64	54	6	32	29.78	29.97	
16	OVC	250			10.00	83	56	66	40	9	07	30.02	30.21	16	OVC	060			10.00		75	59	65	58	7	33	29.77	29.96	
19	BKN	200			10.00	74	60	65	62	7	13	30.02	30.21	19	OVC	070			10.00		71	60	64	68	5	33	29.77	29.96	
22	BKN	200			10.00	68	61	64	78	6	06	30.04	30.23	22	BKN	080			10.00		69	59	63	71	6	01	29.80	29.99	

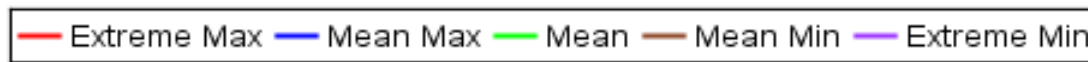
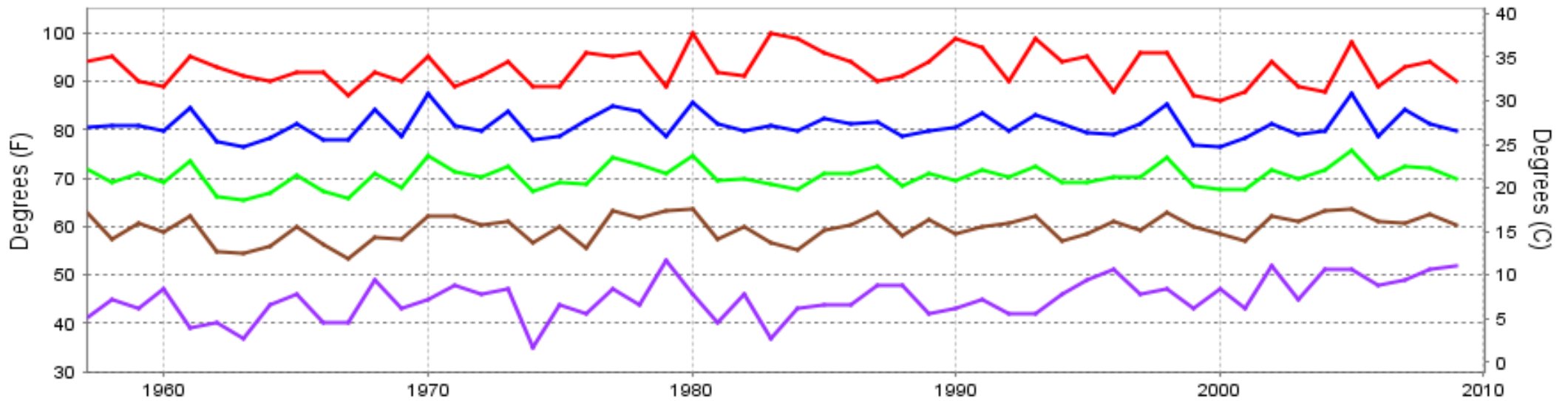
OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
SEPTEMBER 2009 **KRIC**

WBAN # 13740

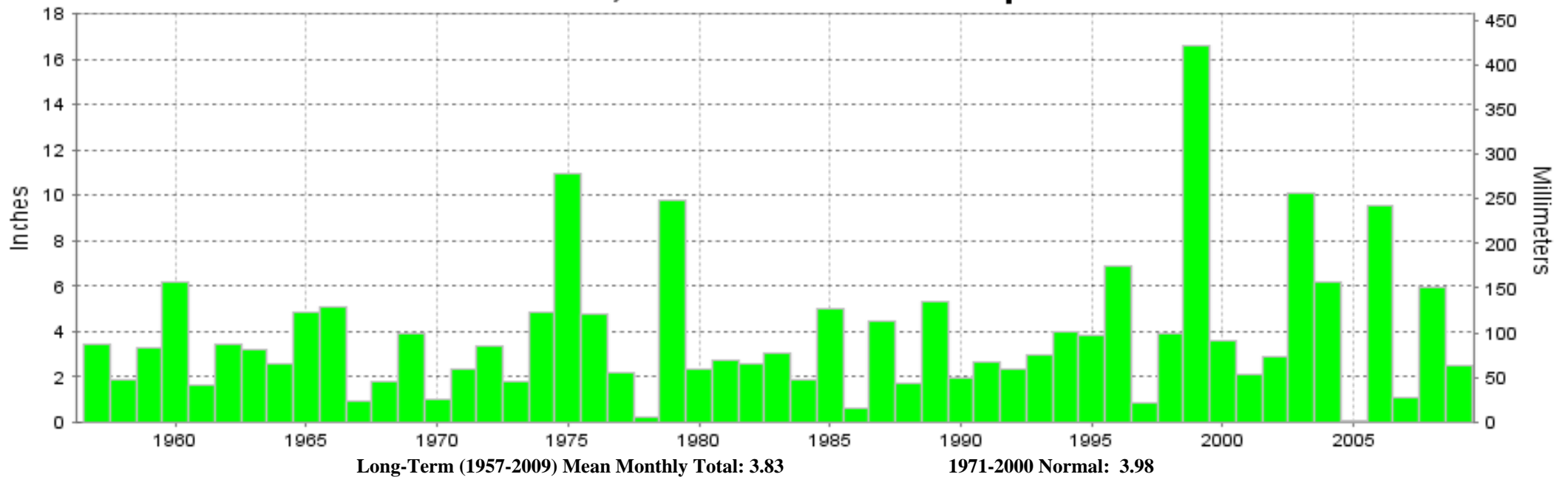
HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)																																																																																																																																																																																																													
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)				STATION	SEA LEVEL		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	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL																																																																																																																																																																																												
SUNRISE: 0549						SEP 13						SUNSET: 1821						SUNRISE: 0554						SEP 19						SUNSET: 1811																																																																																																																																																																																																					
01	BKN	080			10.00	68	59	63	73	5	34	29.79	29.98	01	FEW	070			10.00	63	60	61	90	0	00	29.93	30.12	04	CLR	NC			10.00	64	58	60	81	5	33	29.79	29.98	04	OVC	060			10.00	64	61	62	90	0	00	29.94	30.13	07	FEW	080			10.00	66	58	61	76	9	33	29.82	30.01	07	BKN	070			5.00	BR	66	63	64	90	11	04	30.00	30.19	10	SCT	032			10.00	76	61	67	60	10	35	29.83	30.01	10	BKN	060			10.00	71	60	64	68	13	06	30.05	30.24	13	BKN	041			10.00	79	59	67	50	11	01	29.79	29.98	13	OVC	040			10.00	75	60	66	60	8	05	30.05	30.24	16	SCT	049			10.00	83	60	68	46	8	30	29.74	29.93	16	OVC	035			10.00	74	58	64	58	3	08	30.04	30.23	19	SCT	250			10.00	75	60	66	60	3	36	29.76	29.95	19	OVC	250			10.00	66	56	60	70	6	11	30.05	30.24	22	CLR	NC			10.00	66	61	63	84	0	00	29.80	29.99	22	SCT	250			10.00	61	56	58	84	0	00	30.10	30.29			
SUNRISE: 0550						SEP 14						SUNSET: 1819						SUNRISE: 0555						SEP 20						SUNSET: 1810																																																																																																																																																																																																					
01	CLR	NC			10.00	64	60	62	87	0	00	29.81	29.99	01	SCT	250			10.00	57	54	55	90	0	00	30.11	30.30	04	CLR	NC			10.00	62	58	60	87	0	00	29.80	29.99	04	SCT	250			10.00	55	53	54	93	3	03	30.11	30.30	07	CLR	NC			10.00	65	58	61	78	7	31	29.85	30.03	07	FEW	250			10.00	57	54	55	90	0	00	30.14	30.34	10	CLR	NC			10.00	78	61	67	56	8	36	29.87	30.06	10	SCT	250			10.00	70	52	60	53	7	07	30.15	30.34	13	SCT	048			10.00	84	59	68	43	7	01	29.83	30.01	13	BKN	250			10.00	77	49	61	37	6	04	30.12	30.31	16	SCT	060			10.00	83	58	67	43	7	32	29.78	29.97	16	BKN	250			10.00	77	50	62	39	8	11	30.07	30.26	19	CLR	NC			10.00	72	61	65	68	5	17	29.78	29.97	19	OVC	250			10.00	66	51	58	59	7	12	30.07	30.27	22	CLR	NC			10.00	68	60	63	76	0	00	29.81	30.00	22	BKN	250			10.00	61	54	57	78	5	12	30.09	30.28				
SUNRISE: 0551						SEP 15						SUNSET: 1817						SUNRISE: 0556						SEP 21						SUNSET: 1808																																																																																																																																																																																																					
01	CLR	NC			10.00	66	60	62	81	0	00	29.81	30.00	01	CLR	NC			10.00	57	54	55	90	0	00	30.08	30.27	04	SCT	250			8.00	63	59	61	87	0	00	29.80	29.99	04	CLR	NC			10.00	54	51	52	90	0	00	30.08	30.27	07	BKN	250			8.00	64	60	62	87	0	00	29.81	30.00	07	SCT	250			10.00	58	55	56	90	5	35	30.10	30.29	10	BKN	250			10.00	80	60	67	51	6	06	29.83	30.02	10	BKN	250			10.00	75	63	67	66	6	10	30.10	30.29	13	BKN	250			10.00	84	63	70	49	6	09	29.80	29.99	13	BKN	250			10.00	79	58	66	49	6	19	30.06	30.25	16	BKN	250			10.00	85	61	70	45	0	00	29.76	29.95	16	BKN	250			10.00	80	58	66	47	9	13	30.03	30.22	19	OVC	250			10.00	76	64	68	67	3	14	29.78	29.96	19	BKN	250			10.00	71	60	64	68	7	12	30.05	30.24	22	OVC	250			10.00	71	65	67	81	3	16	29.81	30.00	22	SCT	250			10.00	66	61	63	84	0	00	30.07	30.26				
SUNRISE: 0552						SEP 16						SUNSET: 1816						SUNRISE: 0557						SEP 22						SUNSET: 1807																																																																																																																																																																																																					
01	BKN	250			9.00	69	64	66	84	0	00	29.80	29.98	01	BKN	060			10.00	64	62	63	93	0	00	30.06	30.25	04	BKN	250			8.00	67	63	65	87	0	00	29.79	29.98	04	SCT	065			10.00	65	63	64	93	0	00	30.05	30.24	07	BKN	250			4.00	67	63	65	87	0	00	29.83	30.01	07	OVC	055			10.00	69	65	66	87	5	12	30.07	30.26	10	OVC	150			8.00	78	68	71	71	11	05	29.86	30.05	10	BKN	150			10.00	76	65	69	69	6	10	30.08	30.27	13	OVC	029			10.00	76	66	70	71	8	08	29.88	30.06	13	OVC	150			10.00	79	64	69	60	7	13	30.04	30.23	16	BKN	040			10.00	74	65	68	74	9	07	29.88	30.07	16	OVC	065			10.00	78	67	71	69	6	12	30.02	30.21	19	OVC	040			8.00	71	65	67	81	7	08	29.92	30.11	19	BKN	250			10.00	74	67	69	79	5	07	30.01	30.20	22	OVC	090			10.00	68	64	66	87	5	04	29.94	30.13	22	BKN	250			10.00	70	67	68	90	0	00	30.02	30.20				
SUNRISE: 0553						SEP 17						SUNSET: 1814						SUNRISE: 0558						SEP 23						SUNSET: 1805																																																																																																																																																																																																					
01	OVC	050			10.00	68	63	65	84	8	06	29.93	30.12	01	OVC	090			10.00	70	67	68	90	0	00	30.01	30.20	04	BKN	100			10.00	67	62	64	84	7	06	29.93	30.12	04	VV	001			0.50	FG	69	67	68	93	0	00	30.00	30.19	07	OVC	110			10.00	67	62	64	84	7	07	29.96	30.14	07	VV	001			0.50	FG	70	68	69	93	0	00	30.02	30.21	10	OVC	013			10.00	70	63	66	79	8	07	30.00	30.19	10	OVC	005			3.00	HZ	74	69	71	84	0	00	30.04	30.23	13	OVC	023			10.00	72	63	66	73	9	07	29.97	30.16	13	BKN	250			10.00	84	69	74	61	5	22	29.97	30.16	16	BKN	047			10.00	73	63	67	71	5	09	29.95	30.14	16	BKN	095			9.00	-RA	81	69	73	67	9	24	29.92	30.11	19	OVC	031			10.00	70	62	65	76	6	09	29.95	30.14	19	BKN	250			10.00	76	70	72	82	6	19	29.93	30.12	22	SCT	015			10.00	65	61	63	87	3	10	29.98	30.17	22	SCT	250			10.00	72	69	70	90	7	22	29.92	30.11
SUNRISE: 0553						SEP 18						SUNSET: 1813						SUNRISE: 0558						SEP 24						SUNSET: 1804																																																																																																																																																																																																					
01	BKN	025			10.00	63	59	61	87	6	16	29.97	30.16	01	BKN	250			10.00	71	68	69	90	0	00	29.93	30.11	04	BKN	150			10.00	61	58	59	90	0	00	29.95	30.14	04	SCT	250			10.00	72	68	69	87	7	26	29.90	30.09	07	OVC	250			10.00	63	60	61	90	0	00	29.96	30.15	07	BKN	250			10.00	73	69	70	87	3	VR	29.91	30.10	10	OVC	250			10.00	72	61	65	68	7	22	29.96	30.15	10	BKN	250			10.00	84	70	74	63	7	07	29.91	30.10	13	BKN	060			10.00	74	61	66	64	9	22	29.94	30.13	13	BKN	250			10.00	88	68	74	52	0	00	29.86	30.04	16	OVC	037			10.00	75	61	66	62	7	25	29.89	30.08	16	OVC	250			10.00	87	68	74	53	5	11	29.81	30.00	19	SCT	250			10.00	68	62	64	81	5	21	29.89	30.08	19	SCT	100			10.00	74	70	71	87	0	00	29.84	30.03	22	FEW	250			10.00	65	61	63	87	0	00	29.92	30.11	22	OVC	250			8.00		72	69	70	90	5	08	29.87	30.06			

RICHMOND, VA SEPTEMBER Temperatures



Long-Term (1957-2009) Mean: 70.3
1971-2000 Normal: 69.8

RICHMOND, VA SEPTEMBER Precipitation



Long-Term (1957-2009) Mean Monthly Total: 3.83

1971-2000 Normal: 3.98



SEPTEMBER 2009
RICHMOND, VA

LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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