



SEPTEMBER 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			
									DEPTH 11	WATER- EQUIV 12	SNOW- FALL 13	WATER EQUIV 14			SPEED 20	DIR 21	SPEED 22	DIR 23						
01	83	62	73	-1	57	64	0	8	HZ			0.0	0.00	29.94	30.15	6.1	04	6.8	20	01	15	06	01	
02	83	60	72	-2	57	63	0	7				0.0	0.00	30.05	30.24	2.5	14	3.6	15	15	12	15	02	
03	86	59	73	0	59	65	0	8				0.0	0.00	29.95	30.12	2.3	22	3.5	14	18	12	21	03	
04	91	65	78	5	62	68	0	13				0.0	0.00	29.84	30.03	1.1	04	2.4	13	30	10	03	04	
05	91	63	77	4	62	67	0	12	BR HZ			0.0	0.00	29.88	30.09	3.0	14	4.3	17	13	14	13	05	
06	90	68	79	7	66	70	0	14	BR HZ			0.0	0.00	30.03	30.23	7.4	16	7.9	18	16	14	15	06	
07	89	68	79	7	66	70	0	14				0.0	0.00	30.02	30.20	5.5	18	6.5	18	16	14	16	07	
08	87	65	76	4	63	67	0	11				0.0	0.00	29.93	30.11	4.3	16	5.3	16	15	10	16	08	
09	90	63	77	5	68	71	0	12	RA BR			0.0	T	29.82	30.00	4.7	04	5.4	21	07	15	06	09	
10	92	70	81	10	70	74	0	16				0.0	0.00	29.78	29.96	2.4	21	3.9	17	23	12	33	10	
11	93*	72	83*	12	67	71	0	18	RA HZ			0.0	0.02	29.64	29.82	7.0	26	8.5	30*	30	22*	30	11	
12	85	65	75	4	54	63	0	10				0.0	0.00	29.81	30.03	2.6	35	5.7	20	30	13	07	12	
13	83	62	73	2	59	64	0	8				0.0	0.00	29.96	30.15	4.1	13	6.1	17	14	13	14	13	
14	81	62	72	1	62	65	0	7	RA BR			0.0	1.08	29.88	30.04	3.7	11	6.6	21	02	16	02	14	
15	78	55	67	-3	52	59	0	2	RA DZ BR			0.0	0.01	29.83	30.06	7.9	36	9.8	25	03	21	03	15	
16	71	49	60*	-10	44	51	5	0				0.0	0.00	30.09	30.29	5.7	03	6.5	26	03	13	03	16	
17	72	49	61	-9	48	54	4	0				0.0	0.00	30.15	30.34	5.5	04	6.1	20	09	14	04	17	
18	75	51	63	-7	51	56	2	0				0.0	0.00	30.14	30.33	5.6	05	6.6	18	04	14	08	18	
19	78	59	69	-1	58	62	0	4				0.0	0.00	30.07	30.25	5.1	05	6.0	16	02	13	05	19	
20	74	60	67	-2	57	61	0	2				0.0	0.00	29.99	30.18	3.1	04	3.3	14	07	9	03	20	
21	82	64	73	5	65	68	0	8	RA			0.0	T	29.96	30.14	2.9	09	3.9	14	04	10	05	21	
22	89	72	81	13	69	72	0	16	BR			0.0	0.00	29.91	30.10	2.0	24	3.7	15	31	12	31	22	
23	88	59	74	6	61	66	0	9				0.0	0.00	29.97	30.17	5.4	03	5.6	21	04	16	04	23	
24	86	55	71	4	53	60	0	6				0.0	0.00	30.03	30.23	2.2	10	3.3	13	12	9	13	24	
25	87	56	72	5	59	64	0	7	BCFG BR			0.0	0.00	29.99	30.17	3.5	18	4.0	14	17	12	18	25	
26	92	62	77	11	60	66	0	12				0.0	0.00	29.88	30.06	6.6	20	7.0	23	23	16	19	26	
27	89	68	79	13	65	69	0	14				0.0	0.00	29.77	29.94	5.2	18	5.8	21	14	13	16	27	
28	86	60	73	7	54	62	0	8	RA			0.0	T	29.77	29.99	8.7	36	8.9	29	36	21	35	28	
29	78	53	66	1	46	55	0	1				0.0	0.00	30.11	30.33	6.2	02	7.1	22	01	17	02	29	
30	79	49*	64	-1	50	57	1	0				0.0	0.00	30.24	30.45	2.2	12	3.1	17	18	13	15	30	

84.3	60.8	72.6	☼	58.8	64.1	0.4	8.2	< MONTHLY AVERAGES TOTALS >				0.0	1.11	29.95	30.14	1.3	07	5.6	< MONTHLY AVERAGES			
4.6	0.9	2.8		-----DEPARTURE FROM NORMAL -----								-2.87	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS								GREATEST 24-HR PRECIPITATION : 1.09 DATE : 14-15				SEA LEVEL PRESSURE				DATE TIME						
MONTHLY				SEASON TO DATE				GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.50 30 1011										
TOTAL DEPARTURE				TOTAL DEPARTURE				GREATEST SNOW DEPTH : DATE :				MINIMUM : 29.75 11 1606										
HEATING :		12 -15		12		-16		NUMBER OF ->		MAXIMUM TEMP >= 90 : 7		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH : 3								
COOLING :		247 -60		1698		303		THUNDERSTORMS : 0		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH : 1								
										: 0		HEAVY FOG : 0		SNOWFALL >= 1.0 INCH : 0								

**SEPTEMBER 2007
RICHMOND, VA**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
SEPTEMBER 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													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													07												07	0.00	0.00	
08													08												08	0.00	0.00	
09													09												09	T	T	
10													10												10	0.00	0.00	
11													11												11	0.02	0.02	
12													12												12	0.00	0.00	
13													13												13	0.00	0.00	
14													14												14	1.08	1.08	
15	T	0.01	T										15												15	0.01	0.01	
16													16												16	0.00	0.00	
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	T	T	
22													22												22	0.00	0.00	
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25													25												25	0.00	0.00	
26													26												26	0.00	0.00	
27													27												27	0.00	0.00	
28													28												28	T	T	
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)												
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 SEPTEMBER 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							6.00	10.00	
02							10.00	10.00	
03							9.00	10.00	
04							7.00	10.00	
05							5.00	10.00	
06							1.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							6.00	10.00	
10							7.00	10.00	
11							4.00	9.00	
12							7.00	10.00	
13							10.00	10.00	
14							2.00	10.00	
15							2.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							9.00	10.00	
22							5.00	10.00	
23							7.00	10.00	
24							10.00	10.00	
25							5.00	10.00	
26							10.00	10.00	
27							7.00	10.00	
28							8.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
MONTHLY AVGS							7.57	9.97	
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			3				21		

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB			STATION	SEA LEVEL				Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB			STATION	SEA LEVEL		
																												STATION	SEA LEVEL
						SUNRISE: 0539		SEP 01		SUNSET: 1839																			
01	BKN	250			6.00	HZ	72	66	68	82	6	03	29.86	30.05	01	CLR	NC			10.00									
04	BKN	250			10.00		69	60	64	73	9	02	29.89	30.08	04	BKN	070			10.00	71	64	67	79	5	18	30.07	30.25	
07	BKN	250			10.00		68	56	61	66	10	02	29.94	30.13	07	FEW	075			10.00	69	64	66	84	0	00	30.05	30.24	
10	SCT	250			10.00		75	57	64	54	10	02	29.98	30.17	10	FEW	030			10.00	70	66	67	87	0	00	30.07	30.26	
13	SCT	100			10.00		82	57	67	43	9	07	29.98	30.17	13	FEW	040			10.00	82	67	72	61	5	26	30.07	30.25	
16	FEW	050			10.00		83	53	65	36	6	VR	29.97	30.16	16	FEW	050			10.00	86	69	74	57	9	21	30.00	30.19	
19	FEW	150			10.00		73	56	63	55	5	05	29.99	30.18	19	CLR	NC			10.00	87	68	74	53	13	16	29.94	30.13	
22	CLR	NC			10.00		64	57	60	78	0	00	30.01	30.20	22	CLR	NC			10.00	78	68	71	71	8	14	29.95	30.14	
						SUNRISE: 0540		SEP 02		SUNSET: 1837																			
01	CLR	NC			10.00		63	56	59	78	0	00	30.04	30.23	01	CLR	NC			10.00									
04	CLR	NC			10.00		61	57	59	87	0	00	30.06	30.24	04	SCT	080			10.00	69	62	65	79	7	22	29.98	30.17	
07	CLR	NC			10.00		65	58	61	78	0	00	30.08	30.27	07	FEW	065			10.00	67	62	64	84	3	18	29.96	30.15	
10	FEW	045			10.00		77	58	65	52	5	16	30.11	30.29	10	CLR	NC			10.00	69	64	66	84	0	00	29.96	30.14	
13	BKN	055			10.00		81	56	66	42	3	VR	30.07	30.26	13	CLR	NC			10.00	80	65	70	60	6	18	29.95	30.14	
16	SCT	060			10.00		80	56	65	44	7	12	30.02	30.21	16	CLR	NC			10.00	85	65	72	51	9	16	29.93	30.12	
19	FEW	050			10.00		71	58	63	64	6	15	30.01	30.20	19	FEW	200			10.00	86	63	71	46	10	15	29.87	30.06	
22	CLR	NC			10.00		66	57	61	73	0	00	30.03	30.22	22	CLR	NC			10.00	73	60	65	64	7	12	29.86	30.05	
						SUNRISE: 0541		SEP 03		SUNSET: 1836																			
01	CLR	NC			10.00		64	57	60	78	0	00	30.02	30.21	01	CLR	NC			10.00									
04	CLR	NC			10.00		62	55	58	78	0	00	30.00	30.19	04	CLR	NC			10.00	67	64	65	90	0	00	29.88	30.07	
07	CLR	NC			10.00		66	57	61	73	5	29	30.01	30.20	07	FEW	100			6.00	BR	63	61	62	93	5	02	29.87	30.06
10	CLR	NC			10.00		77	57	65	50	5	VR	30.00	30.19	10	SCT	100			10.00	67	64	65	90	3	03	29.88	30.06	
13	CLR	NC			10.00		84	59	68	43	7	23	29.94	30.13	13	BKN	065			10.00	81	69	73	67	7	VR	29.86	30.04	
16	CLR	NC			10.00		85	61	70	45	6	23	29.87	30.06	16	SCT	080			10.00	86	70	75	59	10	04	29.79	29.98	
19	CLR	NC			10.00		77	64	69	64	3	15	29.85	30.03	19	SCT	120			10.00	90	70	76	52	8	03	29.74	29.93	
22	CLR	NC			10.00		71	64	67	79	3	14	29.86	30.05	22	CLR	NC			10.00	80	72	75	77	6	08	29.74	29.93	
						SUNRISE: 0542		SEP 04		SUNSET: 1834																			
01	SCT	100			10.00		69	64	66	84	0	00	29.86	30.05	01	FEW	100			10.00									
04	CLR	NC			10.00		68	62	64	81	3	22	29.84	30.03	04	SCT	200			10.00	74	71	72	90	5	32	29.78	29.97	
07	CLR	NC			8.00		69	63	65	81	0	00	29.86	30.04	07	SCT	250			10.00	72	70	71	93	0	00	29.78	29.96	
10	CLR	NC			10.00		84	62	70	48	6	05	29.87	30.06	10	BKN	150			10.00	74	70	71	87	0	00	29.81	30.00	
13	SCT	060			10.00		89	60	70	38	7	07	29.84	30.02	13	BKN	150			10.00	86	72	76	63	6	28	29.84	30.02	
16	SCT	100			10.00		91	59	70	34	0	00	29.81	29.99	16	BKN	250			10.00	90	68	75	48	5	23	29.79	29.98	
19	FEW	070			10.00		82	62	69	51	0	00	29.82	30.01	19	OVC	140			10.00	89	69	75	52	8	20	29.74	29.93	
22	CLR	NC			10.00		73	63	67	71	0	00	29.84	30.02	22	BKN	140			10.00	83	72	75	70	6	13	29.74	29.93	
						SUNRISE: 0543		SEP 05		SUNSET: 1833																			
01	CLR	NC			9.00		69	63	65	81	0	00	29.84	30.03	01	BKN	150			9.00									
04	CLR	NC			10.00		67	59	62	76	0	00	29.86	30.04	04	BKN	250			7.00	77	70	72	79	3	04	29.71	29.90	
07	CLR	NC			7.00		70	62	65	76	0	00	29.90	30.09	07	SCT	250			7.00	73	68	70	84	8	22	29.66	29.85	
10	CLR	NC			10.00		85	62	70	46	0	00	29.93	30.12	10	BKN	250			9.00	75	64	68	69	9	22	29.64	29.83	
13	FEW	250			10.00		90	57	69	33	3	25	29.91	30.09	13	BKN	250			8.00	84	65	71	53	11	25	29.63	29.81	
16	FEW	050			10.00		89	60	70	38	8	09	29.89	30.08	16	OVC	080			4.00	-RA	93	66	75	41	16	25	29.58	29.76
19	CLR	NC			10.00		78	63	68	60	9	14	29.91	30.10	19	BKN	200			9.00	82	67	72	61	5	35	29.57	29.75	
22	CLR	NC			8.00		73	67	69	82	5	12	29.97	30.16	22	BKN	250			9.00	79	68	72	69	13	29	29.61	29.80	
						SUNRISE: 0543		SEP 06		SUNSET: 1831																			
01	CLR	NC			4.00	BR	71	68	69	90	7	14	29.99	30.18	01	BKN	250			7.00									
04	BKN	095			3.00	BR	71	68	69	90	3	14	30.02	30.21	04	BKN	250			8.00	73	67	69	82	5	32	29.70	29.88	
07	CLR	NC			1.50	BR	71	68	69	90	6	12	30.07	30.26	07	FEW	100			9.00	70	63	66	79	5	33	29.75	29.94	
10	CLR	NC			9.00		82	67	72	61	7	19	30.09	30.28	10	FEW	100			10.00	69	59	63	71	9	36	29.82	30.01	
13	CLR	NC			10.00		88	65	73	47	10	17	30.05	30.24	13	FEW	250			10.00	80	49	62	34	3	VR	29.85	30.04	
16	CLR	NC			10.00		88	65	73	47	11	13	30.01	30.19	16	SCT	200			10.00	84	46	62	27	8	29	29.86	30.04	
19	CLR	NC			10.00		80	68	72	67	10	14	30.02	30.21	19	FEW	150			10.00	84	46	62	27	7	20	29.84	30.03	
22	CLR	NC			10.00		76	61	67	60	9	16	30.06	30.25	22	CLR	NC			10.00	74	53	62	48	5	07	29.88	30.07	

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

SEPTEMBER 2007 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 Clid 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 Clid Amt Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0549 SEP 13						SUNSET: 1821						SUNRISE: 0554 SEP 19						SUNSET: 1811													
01	BKN	035			10.00		66	57	61	73	5	09	29.94	30.13					60	54	57	81	5	05	30.10	30.29					
04	BKN	035			10.00		63	56	59	78	6	02	29.95	30.14					61	55	58	81	8	03	30.08	30.27					
07	BKN	040			10.00		65	56	60	73	3	01	30.00	30.19					60	56	58	87	9	02	30.11	30.30					
10	BKN	250			10.00		79	60	67	52	11	15	30.01	30.20					69	59	63	71	8	03	30.10	30.30					
13	BKN	250			10.00		81	60	68	49	6	VR	29.98	30.16					76	59	66	56	3	10	30.05	30.24					
16	OVC	250			10.00		82	62	69	51	9	13	29.93	30.11					76	58	65	54	7	08	30.02	30.21					
19	OVC	250			10.00		72	61	65	68	8	14	29.93	30.12					70	59	63	68	5	07	30.03	30.22					
22	BKN	250			10.00		69	59	63	71	6	16	29.96	30.15					65	60	62	84	5	09	30.04	30.23					
SUNRISE: 0550 SEP 14						SUNSET: 1819						SUNRISE: 0555 SEP 20						SUNSET: 1810													
01	SCT	250			10.00		65	59	61	81	7	16	29.94	30.13					63	59	61	87	0	00	30.00	30.19					
04	SCT	250			10.00		64	60	62	87	0	00	29.94	30.13					62	58	60	87	3	02	29.99	30.18					
07	BKN	250			10.00		66	62	64	87	5	14	29.95	30.14					63	59	61	87	3	02	30.03	30.22					
10	OVC	250			10.00		78	61	67	56	9	14	29.92	30.11					69	61	64	76	9	05	30.04	30.23					
13	OVC	150			10.00		80	61	68	52	8	13	29.87	30.06					73	53	61	50	6	04	30.00	30.19					
16	OVC	150			10.00		78	62	68	58	8	11	29.78	29.97					72	55	62	55	0	00	29.97	30.16					
19	BKN	035			5.00	-RA BR	69	65	66	87	7	08	29.76	29.95					68	57	62	68	0	00	29.97	30.16					
22	OVC	029			2.50	-RA BR	67	65	66	93	11	01	29.71	29.90					67	56	61	68	3	36	29.98	30.17					
SUNRISE: 0551 SEP 15						SUNSET: 1817						SUNRISE: 0556 SEP 21						SUNSET: 1808													
01	OVC	019			2.00	-RA BR	65	63	64	93	9	32	29.69	29.88					65	56	60	73	0	00	29.97	30.16					
04	OVC	013			2.00	BR	65	63	64	93	6	29	29.71	29.90					65	59	61	81	0	00	29.94	30.13					
07	OVC	250			2.00	BR	65	62	63	90	3	28	29.79	29.98					67	61	63	81	3	05	29.98	30.17					
10	SCT	065			10.00		68	54	60	61	21	03	29.87	30.06					76	66	70	71	6	04	30.00	30.19					
13	FEW	047			10.00		76	50	61	40	15	34	29.87	30.06					78	66	70	67	6	05	29.95	30.14					
16	FEW	060			10.00		75	45	59	34	13	02	29.89	30.08					80	68	72	67	5	06	29.92	30.11					
19	FEW	055			10.00		63	45	54	52	6	05	29.97	30.16					75	68	70	79	5	14	29.92	30.11					
22	CLR	NC			10.00		59	42	51	54	9	03	30.03	30.22					73	69	70	87	7	13	29.93	30.11					
SUNRISE: 0552 SEP 16						SUNSET: 1816						SUNRISE: 0557 SEP 22						SUNSET: 1807													
01	CLR	NC			10.00		54	42	48	64	8	36	30.05	30.24					72	69	70	90	0	00	29.92	30.11					
04	CLR	NC			10.00		51	42	47	71	10	02	30.06	30.25					72	69	70	90	3	16	29.91	30.10					
07	BKN	250			10.00		53	44	49	72	9	02	30.11	30.30				BR	73	69	70	87	6	23	29.93	30.12					
10	BKN	250			10.00		65	46	55	50	8	04	30.14	30.33					77	70	72	79	6	25	29.93	30.11					
13	BKN	250			10.00		70	45	57	41	7	04	30.11	30.30					85	68	74	57	7	31	29.90	30.09					
16	SCT	180			10.00		70	42	55	36	5	VR	30.06	30.25					88	65	73	47	0	00	29.87	30.05					
19	SCT	250			10.00		60	46	53	60	5	05	30.08	30.27					78	70	73	77	5	16	29.88	30.07					
22	CLR	NC			10.00		55	46	50	72	3	04	30.12	30.32					74	68	70	82	0	00	29.92	30.11					
SUNRISE: 0553 SEP 17						SUNSET: 1814						SUNRISE: 0558 SEP 23						SUNSET: 1805													
01	CLR	NC			10.00		51	46	49	83	5	36	30.12	30.31					72	67	69	84	0	00	29.93	30.11					
04	CLR	NC			10.00		49	45	47	86	5	02	30.13	30.32					72	67	69	84	0	00	29.91	30.10					
07	FEW	100			10.00		53	48	50	83	6	02	30.17	30.36					72	67	69	84	7	01	29.97	30.16					
10	FEW	040			10.00		68	50	58	53	9	06	30.19	30.39					83	66	72	57	15	04	30.03	30.22					
13	BKN	050			10.00		70	50	59	49	5	06	30.17	30.36					86	64	72	48	7	05	30.00	30.19					
16	SCT	055			10.00		70	49	58	47	7	07	30.14	30.33					87	58	69	37	7	04	29.96	30.14					
19	CLR	NC			10.00		62	50	56	65	5	07	30.13	30.32					73	50	60	44	5	06	29.98	30.17					
22	CLR	NC			10.00		57	49	53	75	6	05	30.15	30.35					62	53	57	73	0	00	30.02	30.21					
SUNRISE: 0553 SEP 18						SUNSET: 1813						SUNRISE: 0558 SEP 24						SUNSET: 1804													
01	CLR	NC			10.00		54	49	51	83	6	04	30.15	30.34					60	53	56	78	0	00	30.04	30.23					
04	CLR	NC			10.00		52	49	50	90	6	03	30.14	30.33					57	52	54	83	0	00	30.05	30.24					
07	FEW	100			10.00		56	52	54	87	8	02	30.17	30.36					59	52	55	78	0	00	30.07	30.26					
10	FEW	030			10.00		68	51	59	55	9	03	30.19	30.38					77	55	64	47	5	06	30.09	30.28					
13	SCT	043			10.00		74	52	61	46	6	VR	30.15	30.34					84	49	64	30	7	10	30.04	30.23					
16	SCT	250			10.00		74	52	61	46	10	08	30.11	30.30					84	50	64	31	5	11	30.00	30.19					
19	FEW	045			10.00		63	52	57	68	5	07	30.11	30.31					70	57	62	64	6	16	30.00	30.19					
22	BKN	043			10.00		59	53	56	81	3	04	30.12	30.32					64	58	61	81	0	00	30.03	30.22					

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0559 SEP 25 SUNSET: 1802														
01	FEW	007			7.00	BCFG	62	60	61	93	3	22	30.03	30.22
04	CLR	NC			7.00	BCFG	61	58	59	90	0	00	30.03	30.22
07	CLR	NC			10.00		59	56	57	90	0	00	30.04	30.23
10	CLR	NC			10.00		78	60	67	54	6	20	30.02	30.21
13	CLR	NC			10.00		86	59	69	40	8	17	29.98	30.17
16	CLR	NC			10.00		86	59	69	40	8	18	29.93	30.11
19	CLR	NC			10.00		74	60	65	62	7	15	29.92	30.11
22	CLR	NC			10.00		69	59	63	71	6	19	29.94	30.13
SUNRISE: 0600 SEP 26 SUNSET: 1801														
01	CLR	NC			10.00		65	58	61	78	5	21	29.93	30.12
04	CLR	NC			10.00		65	57	60	75	0	00	29.91	30.10
07	CLR	NC			10.00		65	60	62	84	5	19	29.91	30.10
10	CLR	NC			10.00		80	60	67	51	8	23	29.90	30.09
13	FEW	250			10.00		89	61	71	39	15	20	29.84	30.03
16	SCT	250			10.00		89	62	71	41	8	19	29.81	30.00
19	SCT	250			10.00		80	59	67	49	10	19	29.83	30.02
22	BKN	250			10.00		73	59	64	62	3	22	29.85	30.04
SUNRISE: 0601 SEP 27 SUNSET: 1759														
01	BKN	200			10.00		71	62	65	73	5	17	29.85	30.03
04	BKN	130			8.00		69	65	66	87	5	19	29.83	30.02
07	BKN	250			7.00		70	66	67	87	0	00	29.81	30.00
10	SCT	250			10.00		80	68	72	67	5	18	29.80	29.99
13	BKN	250			10.00		86	64	72	48	10	16	29.74	29.93
16	SCT	200			10.00		86	62	70	45	10	17	29.66	29.85
19	BKN	250			10.00		76	68	71	76	9	15	29.67	29.86
22	FEW	250			10.00		72	68	69	87	7	19	29.67	29.86
SUNRISE: 0602 SEP 28 SUNSET: 1757														
01	FEW	250			10.00		70	66	67	87	0	00	29.67	29.86
04	BKN	140			8.00		68	66	67	93	0	00	29.67	29.86
07	BKN	150			8.00		70	64	66	81	5	35	29.73	29.92
10	SCT	140			10.00		78	63	68	60	10	36	29.79	29.98
13	SCT	050			10.00		83	51	64	33	17	35	29.80	29.98
16	SCT	090			10.00		83	43	61	24	14	34	29.80	29.98
19	CLR	NC			10.00		71	42	56	35	9	36	29.87	30.06
22	CLR	NC			10.00		64	43	53	47	8	01	29.97	30.16
SUNRISE: 0603 SEP 29 SUNSET: 1756														
01	CLR	NC			10.00		62	45	53	54	3	35	30.00	30.19
04	CLR	NC			10.00		59	45	52	60	6	35	30.05	30.24
07	CLR	NC			10.00		60	46	53	60	9	34	30.12	30.31
10	CLR	NC			10.00		69	46	57	44	14	03	30.18	30.37
13	CLR	NC			10.00		76	44	59	32	8	01	30.15	30.34
16	CLR	NC			10.00		77	44	59	31	10	03	30.15	30.34
19	CLR	NC			10.00		65	46	55	50	5	08	30.18	30.37
22	FEW	100			10.00		58	48	53	70	0	00	30.21	30.40
SUNRISE: 0604 SEP 30 SUNSET: 1754														
01	CLR	NC			10.00		54	47	50	77	0	00	30.23	30.42
04	CLR	NC			10.00		53	47	50	80	0	00	30.25	30.43
07	FEW	250			10.00		54	47	50	77	0	00	30.27	30.46
10	FEW	250			10.00		73	53	61	50	3	VR	30.31	30.50
13	SCT	250			10.00		77	49	61	37	0	00	30.26	30.45
16	BKN	250			10.00		77	52	62	42	6	16	30.24	30.43
19	BKN	250			10.00		65	53	58	65	7	14	30.24	30.43
22	SCT	250			10.00		61	52	56	72	3	13	30.25	30.44

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL

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.

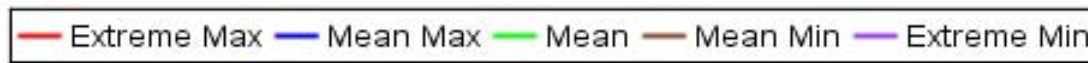
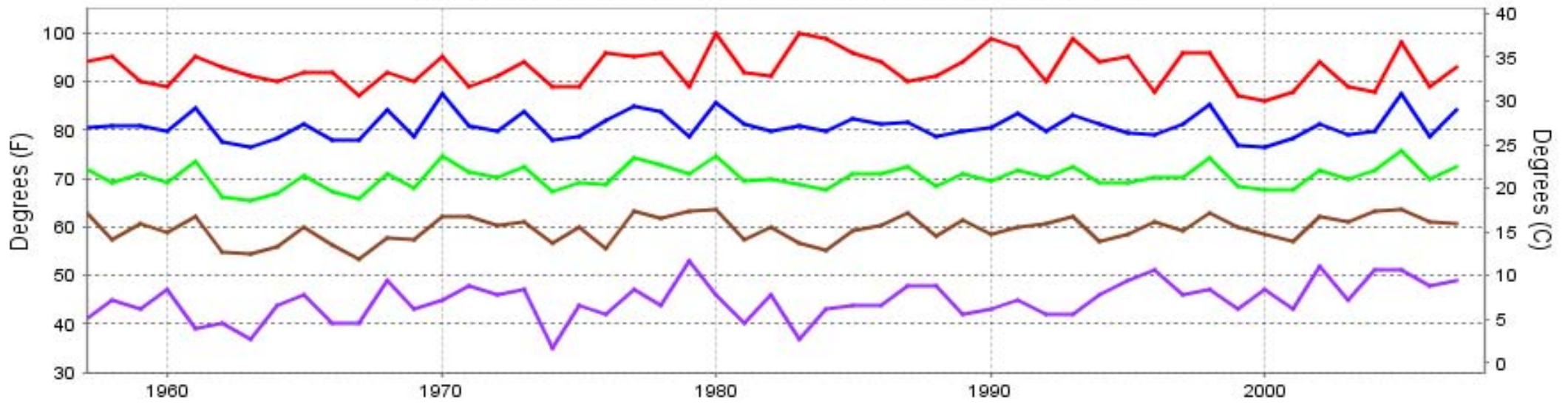
& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

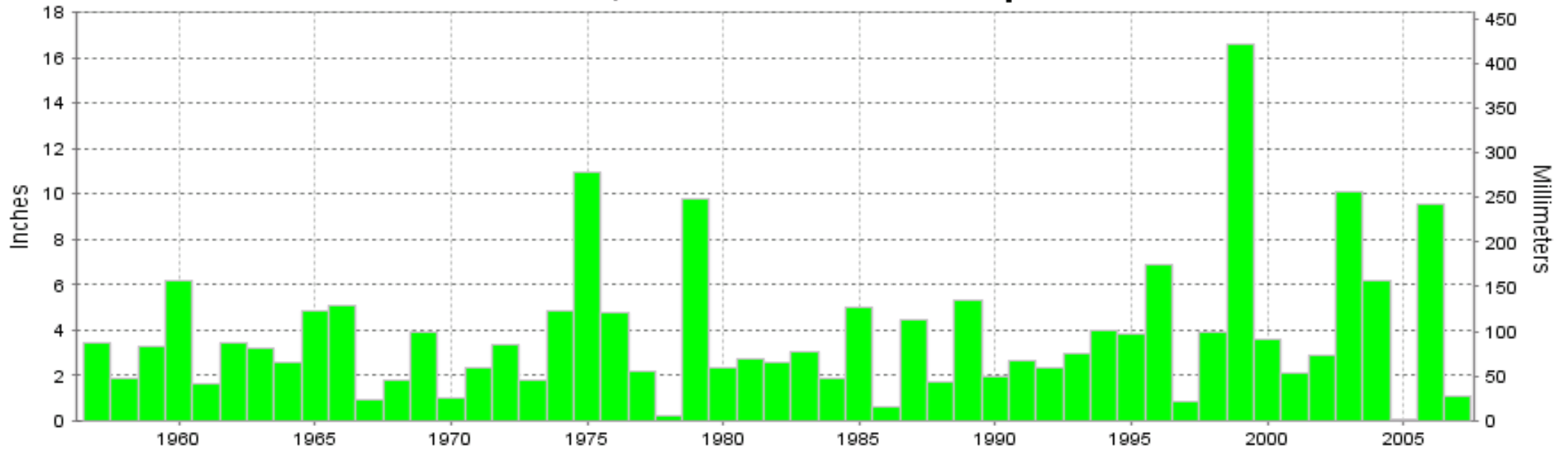
HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)			
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			66	59	62	81	29.94	30.13	9.07	3	0	05
02			65	59	62	82	29.94	30.13	9.13	3	0	01
03			65	59	61	83	29.94	30.13	9.10	3	0	34
04			64	59	61	83	29.94	30.13	8.97	3	0	06
05			63	58	60	83	29.95	30.14	8.90	4	0	05
06			63	58	60	84	29.96	30.15	8.50	4	0	04
07			65	59	62	81	29.97	30.16	8.62	4	0	07
08			70	60	64	72	29.98	30.17	9.17	7	0	07
09			74	60	66	63	29.99	30.18	9.77	7	1	08
10			77	60	66	57	29.99	30.18	9.83	8	2	09
11			79	59	67	51	29.98	30.17	9.87	8	1	08
12			81	59	67	47	29.97	30.16	9.87	8	2	09
13			82	58	67	45	29.95	30.14	9.87	8	1	08
14			83	58	67	43	29.94	30.13	9.90	8	2	09
15			83	58	67	43	29.92	30.11	9.93	8	2	09
16			82	58	67	44	29.92	30.10	9.80	7	3	09
17			80	58	67	47	29.92	30.11	9.83	8	4	09
18			77	58	66	55	29.92	30.11	9.77	7	3	09
19			73	59	65	63	29.93	30.12	9.80	6	3	09
20			71	59	64	68	29.94	30.13	9.73	6	3	09
21			69	59	63	71	29.95	30.14	9.70	5	3	09
22			68	59	63	74	29.95	30.15	9.62	4	2	09
23			67	59	62	77	29.96	30.15	9.38	3	1	08
24			66	59	62	79	29.95	30.14	9.33	3	1	08

RICHMOND, VA SEPTEMBER Temperatures



Long-Term (1957-2007) Mean: 70.3
1971-2000 Normal: 69.8

RICHMOND, VA SEPTEMBER Precipitation



Long-Term (1957-2007) Mean Monthly Total: 3.82

1971-2000 Normal: 3.98



SEPTEMBER 2007
RICHMOND, VA

LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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