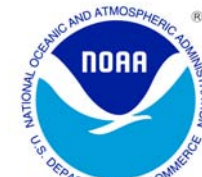




SEPTEMBER 2011 LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

RICHMOND, VA
RICHMOND INTERNATIONAL AIRPORT (KRIC)
 Lat:37° 30'N Long: 77° 19'W Elev (Ground) 164 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					
																			3-SEC		2-MIN			
2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23				
01	85	59	72	-2	59	64	0	7		0		0.0	0.00	29.96	30.15	2.5	13	3.1	15	14	13	13	01	
02	81	65	73	-1	62	66	0	8		0		0.0	0.00	29.88	30.07	4.2	13	4.8	16	13	10	12	02	
03	86	66	76	3	66	69	0	11		0		0.0	0.00	29.83	30.01	3.9	17	4.2	16	17	12	19	03	
04	89*	69	79	6	67	71	0	14		0		0.0	0.00	29.72	29.91	7.6	18	8.0	21	20	16	21	04	
05	86	71	79*	6	70	72	0	14	RA	0		0.0	T	29.62	29.81	9.7	18	9.8	26	17	22	19	05	
06	78	65	72	0	66	67	0	7	TS TSRA RA BR	0		0.0	1.02	29.68	29.89	7.5	03	8.8	28	31	21	33	06	
07	80	71	76	4	73	74	0	11	TS TSRA RA FG BR	0		0.0	3.76	29.73	29.92	5.4	16	7.5	32	22	24	22	07	
08	83	72	78	6	72	73	0	13	TS TSRA RA BR	0		0.0	1.28	29.68	29.87	1.9	06	2.8	15	13	13	13	08	
09	84	69	77	5	68	70	0	12	BR	0		0.0	0.00	29.67	29.87	2.0	22	3.6	22	15	13	24	09	
10	86	65	76	5	66	69	0	11	BR	0		0.0	0.00	29.75	29.95	3.1	35	3.5	17	36	13	35	10	
11	87	66	77	6	63	68	0	12	BR HZ	0		0.0	0.00	29.84	30.04	2.9	22	3.7	22	26	15	26	11	
12	86	65	76	5	63	67	0	11		0		0.0	0.00	29.85	30.04	1.0	09	2.5	13	17	9	18	12	
13	87	63	75	4	63	67	0	10	BR	0		0.0	0.00	29.82	30.00	2.8	21	3.5	17	22	13	20	13	
14	88	66	77	6	64	69	0	12	BR	0		0.0	0.00	29.78	29.96	2.9	20	3.5	14	20	12	19	14	
15	88	59	74	4	61	65	0	9	RA BR	0		0.0	T	29.76	29.97	7.7	35	9.5	47*	36	33*	36	15	
16	66	49*	58*	-12	45	52	7	0		0		0.0	0.00	30.12	30.33	6.7	01	7.3	21	02	15	36	16	
17	61	57	59	-11	53	55	6	0	RA	0		0.0	0.04	30.14	30.34	5.9	03	6.4	20	05	13	06	17	
18	65	57	61	-9	55	58	4	0	RA	0		0.0	T	30.14	30.33	8.1	01	8.2	17	01	13	02	18	
19	74	57	66	-4	58	61	0	1		0		0.0	0.00	30.04	30.22	2.9	09	5.2	14	14	10	13	19	
20	76	62	69	0	63	65	0	4	RA	0		0.0	T	29.95	30.14	1.4	16	4.0	14	18	10	18	20	
21	79	66	73	5	68	69	0	8	TS TSRA RA FG+ BR	0		0.0	0.67	29.96	30.15	2.4	11	2.9	43	18	32	17	21	
22	80	70	75	7	71	72	0	10	RA FG+ BR	0		0.0	T	29.93	30.12	2.9	18	3.2	10	17	8	17	22	
23	76	68	72	4	71	71	0	7	RA BR	0		0.0	0.47	29.81	29.99	5.6	17	6.5	20	16	15	17	23	
24	75	67	71	4	69	69	0	6	RA DZ FG+ FG BR	0		0.0	0.03	29.83	30.03	1.6	05	2.5	18	14	9	04	24	
25	78	68	73	6	69	70	0	8	RA FG BR	0		0.0	T	29.88	30.06	2.6	10	3.2	12	13	8	11	25	
26	83	69	76	10	69	71	0	11	FG BR	0		0.0	0.00	29.80	29.98	3.7	15	4.3	16	16	13	15	26	
27	84	66	75	9	69	71	0	10	TS TSRA RA DZ BR SQ	0		0.0	1.57	29.72	29.90	3.9	15	5.4	37	24	30	26	27	
28	83	66	75	9	68	70	0	10	RA BR	0		0.0	0.08	29.67	29.85	4.9	16	5.5	18	13	14	17	28	
29	82	61	72	7	60	64	0	7	BR	0		0.0	0.00	29.59	29.78	6.0	24	7.3	24	27	20	26	29	
30	82	60	71	6	56	61	0	6	RA	0		0.0	0.03	29.54	29.72	4.3	27	5.8	23	28	17	28	30	

80.6	64.5	72.6	☼	64.2	67.0	0.6	8.3	< MONTHLY AVERAGES TOTALS >				0.0	8.95	29.83	30.01	1.1	14	5.2	< MONTHLY AVERAGES			
0.9	4.6	2.8		-----DEPARTURE FROM NORMAL ----->								4.97	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS								GREATEST 24-HR PRECIPITATION : 3.77 DATE : 06-07				SEA LEVEL PRESSURE				DATE TIME						
MONTHLY				SEASON TO DATE				GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.38 17 1127										
TOTAL DEPARTURE				TOTAL DEPARTURE				GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.66 30 1846										
HEATING :		17 -10		17 -11				NUMBER OF -> DAYS WITH		MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH : 10								
COOLING :		250 63		1870 475						MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH : 6								
										THUNDERSTORMS : 5		HEAVY FOG : 3		SNOWFALL >= 1.0 INCH : 0								

**SEPTEMBER 2011
RICHMOND, VA**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
SEPTEMBER 2011

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			T		T				T			05	T	T	
06		T	0.03	0.06	0.11	T	0.19	0.01	T	T	0.03	0.05	06	0.16	0.03	T			0.26	0.06	T	0.02	T		0.01	0.02	1.02	1.02
07			T	0.15	T		0.03	0.18	0.43	0.34	1.09	0.21	07	T	T	T	T	0.03	0.25	0.24	0.02	0.27	0.40	0.12	T	3.76	3.76	
08					T								08	T		T		T	T			1.10	0.18		08	1.28	1.28	
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
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						T	T					15	T	T	
16													16												16	0.00	0.00	
17													17	0.01	0.03	T									17	0.04	0.04	
18													18												18	T	T	
19													19												19	0.00	0.00	
20													20				T								20	T	T	
21			T										21	T	0.01			0.64	0.01	0.01	T		T	T	21	0.67	0.67	
22					T								22				T					T	T		22	T	T	
23		T	0.04	T	0.02	0.03	T	T	T	T	T	0.01	23	0.15	0.06	0.06	0.08	0.02							23	0.47	0.47	
24					T		T	0.02	T	T	T	T	24	T			0.01	T			T				24	0.03	0.03	
25													25		T	T	T								25	T	T	
26													26												26	0.00	0.00	
27													27	0.01	0.16		0.39	T			1.01	T			27	1.57	1.57	
28						0.08	T	T					28												28	0.08	0.08	
29													29							T					29	0.00	0.00	
30													30							T	0.03	T	T		30	0.03	0.03	

* 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)	0.46	0.76	0.98	1.06	1.19	1.32	1.35	1.46	1.56	1.59	1.75	1.88
Ending Date	21	07	07	07	07	07	07	07	07	07	07	07
Ending Time (Hr/Min)	1625	1005	1010	1013	1025	1032	1054	1106	1121	1148	1035	1104

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 2011

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							7.00	10.00	
04							9.00	10.00	
05							7.00	10.00	
06							1.50	10.00	
07							0.50	10.00	
08							1.50	10.00	
09							2.00	10.00	
10							6.00	10.00	
11							4.00	10.00	
12							9.00	10.00	
13							4.00	10.00	
14							5.00	10.00	
15							4.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							7.00	10.00	
21							7.00	10.00	
22							0.25	10.00	
23							2.00	10.00	
24							0.25	10.00	
25							0.50	10.00	
26							0.50	10.00	
27							4.00	10.00	
28							4.00	10.00	
29							3.00	10.00	
30							7.00	10.00	
MONTHLY AVGS							5.20	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				
2		10			13				

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

SEPTEMBER 2011 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	SCT	200			10.00	64	58	61	81	0	00	30.01	30.20	01	OVC	006			7.00	71	70	70	97	3	07	29.71	29.90		
04	BKN	220			10.00	61	58	59	90	0	00	30.00	30.19	04	BKN	070			7.00	75	74	74	97	8	18	29.71	29.89		
07	FEW	210			10.00	65	61	63	87	0	00	30.01	30.20	07	OVC	060			2.00	TSRA BR	77	75	76	94	6	17	29.73	29.92	
10	CLR	NC			10.00	78	56	65	47	0	00	30.01	30.19	10	OVC	037			0.75	TS+RA BR	75	73	74	94	21	22	29.77	29.96	
13	SCT	250			10.00	82	59	68	46	3	VR	29.97	30.16	13	BKN	100			10.00	76	72	73	87	9	13	29.75	29.94		
16	BKN	200			10.00	82	61	69	49	6	13	29.89	30.08	16	BKN	095			10.00	78	74	75	88	7	12	29.70	29.89		
19	FEW	180			10.00	73	60	65	64	8	12	29.88	30.07	19	BKN	028			10.00	76	74	75	94	5	15	29.72	29.91		
22	SCT	180			10.00	67	60	63	78	3	13	29.92	30.11	22	BKN	025			10.00	TS	74	71	72	90	7	15	29.74	29.93	
SUNRISE: 0540 SEP 02						SUNSET: 1837						SUNRISE: 0545 SEP 08						SUNSET: 1828											
01	BKN	120			10.00	66	62	64	87	0	00	29.91	30.10	01	OVC	004			10.00	73	71	72	93	3	13	29.71	29.90		
04	OVC	080			10.00	67	63	65	87	0	00	29.88	30.07	04	OVC	004			7.00	72	71	71	97	0	00	29.70	29.89		
07	BKN	120			10.00	68	64	66	87	3	15	29.89	30.08	07	OVC	060			3.00	BR	72	71	71	97	5	06	29.71	29.90	
10	BKN	250			10.00	77	63	68	62	8	14	29.89	30.08	10	OVC	120			10.00	75	72	73	90	5	07	29.72	29.91		
13	BKN	048			10.00	81	61	68	51	9	12	29.87	30.06	13	BKN	050			10.00	-RA	80	74	76	82	3	04	29.68	29.87	
16	OVC	060			10.00	78	60	67	54	7	11	29.85	30.04	16	BKN	085			10.00	81	72	75	74	3	02	29.64	29.83		
19	SCT	250			10.00	73	63	67	71	8	11	29.86	30.05	19	OVC	049			10.00	76	73	74	90	0	00	29.65	29.83		
22	BKN	050			10.00	69	63	65	81	5	12	29.88	30.07	22	OVC	045			10.00	74	72	73	94	0	00	29.67	29.86		
SUNRISE: 0541 SEP 03						SUNSET: 1836						SUNRISE: 0546 SEP 09						SUNSET: 1827											
01	BKN	060			10.00	69	63	65	81	3	15	29.88	30.07	01	SCT	070			10.00	72	71	71	97	5	24	29.66	29.85		
04	OVC	035			10.00	68	63	65	84	3	17	29.85	30.04	04	OVC	009			5.00	BR	71	70	70	97	5	30	29.66	29.85	
07	OVC	038			10.00	68	63	65	84	3	15	29.87	30.06	07	OVC	060			7.00	72	70	71	93	0	00	29.69	29.88		
10	BKN	150			10.00	78	63	68	60	8	17	29.85	30.04	10	SCT	250			10.00	79	67	71	67	8	24	29.70	29.89		
13	BKN	037			10.00	83	66	72	57	7	17	29.82	30.01	13	SCT	043			10.00	81	64	70	56	7	19	29.68	29.87		
16	BKN	250			10.00	84	68	73	59	7	17	29.78	29.96	16	SCT	043			10.00	83	64	71	53	5	22	29.65	29.84		
19	SCT	250			10.00	77	69	72	76	5	16	29.76	29.95	19	FEW	030			10.00	75	69	71	82	5	18	29.67	29.86		
22	SCT	035			7.00	75	69	71	82	0	00	29.79	29.98	22	CLR	NC			10.00	72	67	69	84	0	00	29.71	29.90		
SUNRISE: 0542 SEP 04						SUNSET: 1834						SUNRISE: 0547 SEP 10						SUNSET: 1825											
01	FEW	250			10.00	72	66	68	82	5	16	29.76	29.95	01	CLR	NC			10.00	69	66	67	90	0	00	29.70	29.89		
04	OVC	041			10.00	71	65	67	81	3	15	29.74	29.93	04	CLR	NC			10.00	66	64	65	93	0	00	29.70	29.89		
07	SCT	250			9.00	71	66	68	84	5	19	29.77	29.96	07	SCT	250			10.00	70	66	67	87	3	33	29.74	29.93		
10	FEW	044			10.00	81	69	73	67	8	21	29.77	29.96	10	FEW	045			10.00	80	66	71	62	13	01	29.78	29.97		
13	BKN	250			10.00	88	69	75	53	11	22	29.72	29.91	13	SCT	041			10.00	84	63	70	49	8	32	29.77	29.96		
16	BKN	300			10.00	86	69	74	57	11	18	29.67	29.85	16	SCT	050			10.00	86	64	72	48	5	34	29.75	29.94		
19	BKN	300			10.00	79	68	72	69	7	17	29.66	29.85	19	SCT	120			10.00	77	69	72	76	0	00	29.78	29.96		
22	OVC	300			10.00	76	65	69	69	7	17	29.68	29.87	22	CLR	NC			7.00	71	68	69	90	0	00	29.82	30.01		
SUNRISE: 0543 SEP 05						SUNSET: 1833						SUNRISE: 0548 SEP 11						SUNSET: 1824											
01	OVC	110			10.00	75	66	69	74	10	19	29.67	29.86	01	FEW	200			7.00	70	67	68	90	0	00	29.83	30.02		
04	SCT	070			10.00	72	67	69	84	7	18	29.65	29.83	04	CLR	NC			5.00	BR	67	66	66	97	0	00	29.84	30.03	
07	BKN	250			10.00	72	68	69	87	8	18	29.64	29.83	07	FEW	200			6.00	BR	68	66	67	93	0	00	29.87	30.06	
10	BKN	250			10.00	81	70	74	69	11	18	29.64	29.82	10	SCT	080			10.00	82	68	73	63	0	00	29.90	30.09		
13	BKN	250			10.00	85	70	75	61	16	17	29.61	29.79	13	SCT	050			10.00	86	61	70	43	7	22	29.85	30.04		
16	BKN	085			10.00	81	70	74	69	20	18	29.58	29.76	16	FEW	055			10.00	86	57	68	37	10	21	29.82	30.01		
19	BKN	250			10.00	77	72	74	85	6	17	29.59	29.78	19	SCT	110			10.00	74	64	68	71	5	21	29.82	30.01		
22	BKN	250			10.00	77	73	74	88	10	16	29.60	29.78	22	FEW	120			10.00	71	62	65	73	0	00	29.86	30.04		
SUNRISE: 0543 SEP 06						SUNSET: 1831						SUNRISE: 0548 SEP 12						SUNSET: 1822											
01	BKN	080			10.00	77	73	74	88	10	19	29.62	29.81	01	FEW	075			10.00	69	62	65	79	0	00	29.86	30.05		
04	OVC	018			5.00	-RA BR	65	64	64	97	10	03	29.64	29.83	04	CLR	NC			10.00	66	62	64	87	0	00	29.85	30.03	
07	OVC	012			6.00	-RA BR	66	65	65	97	9	36	29.70	29.88	07	BKN	130			9.00	68	65	66	90	0	00	29.88	30.07	
10	OVC	005			10.00	66	64	65	93	11	03	29.71	29.90	10	FEW	130			10.00	79	64	69	60	6	03	29.90	30.09		
13	OVC	041			2.50	+RA BR	67	65	66	93	16	04	29.70	29.89	13	SCT	180			10.00	84	61	69	46	3	VR	29.85	30.04	
16	OVC	007			10.00	69	67	68	93	8	02	29.71	29.90	16	SCT	200			10.00	83	62	70	49	5	09	29.79	29.98		
19	OVC	005			6.00	RA BR	68	67	67	97	9	04	29.71	29.90	19	SCT	250			10.00	78	63	68	60	0	00	29.82	30.01	
22	OVC	005			10.00	69	68	68	97	0	00	29.74	29.93	22	SCT	250			10.00	71	67	68	87	7	16	29.84	30.03		

OBSERVATIONS AT 3-HOURLY INTERVALS

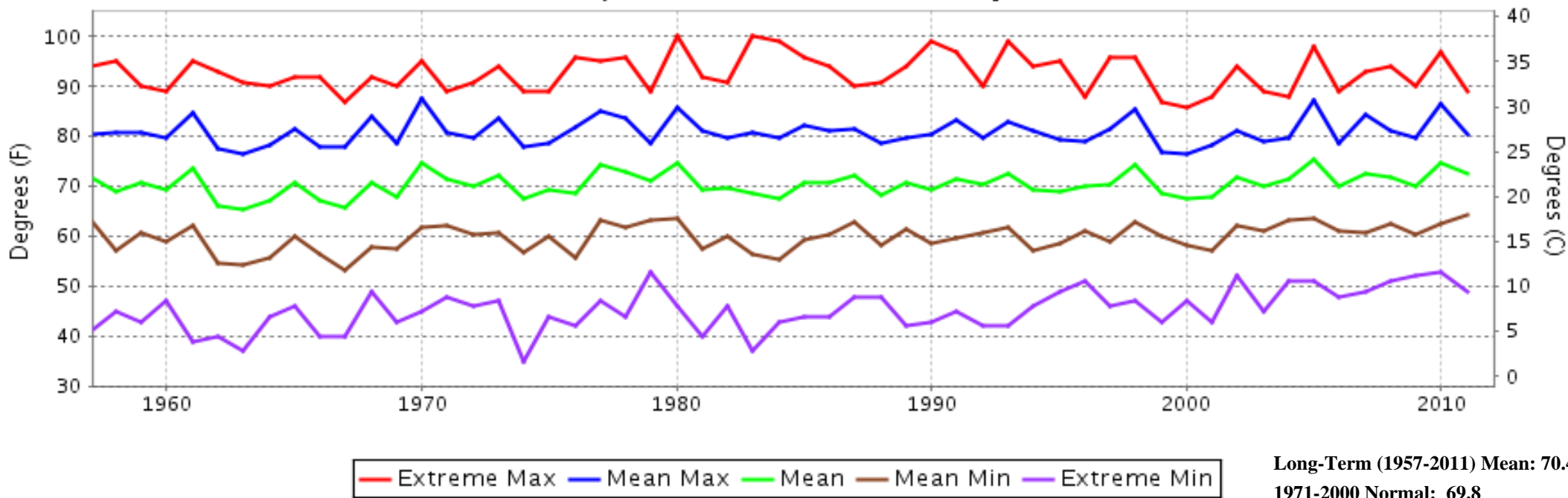
RICHMOND, VA

SEPTEMBER 2011 KRIC

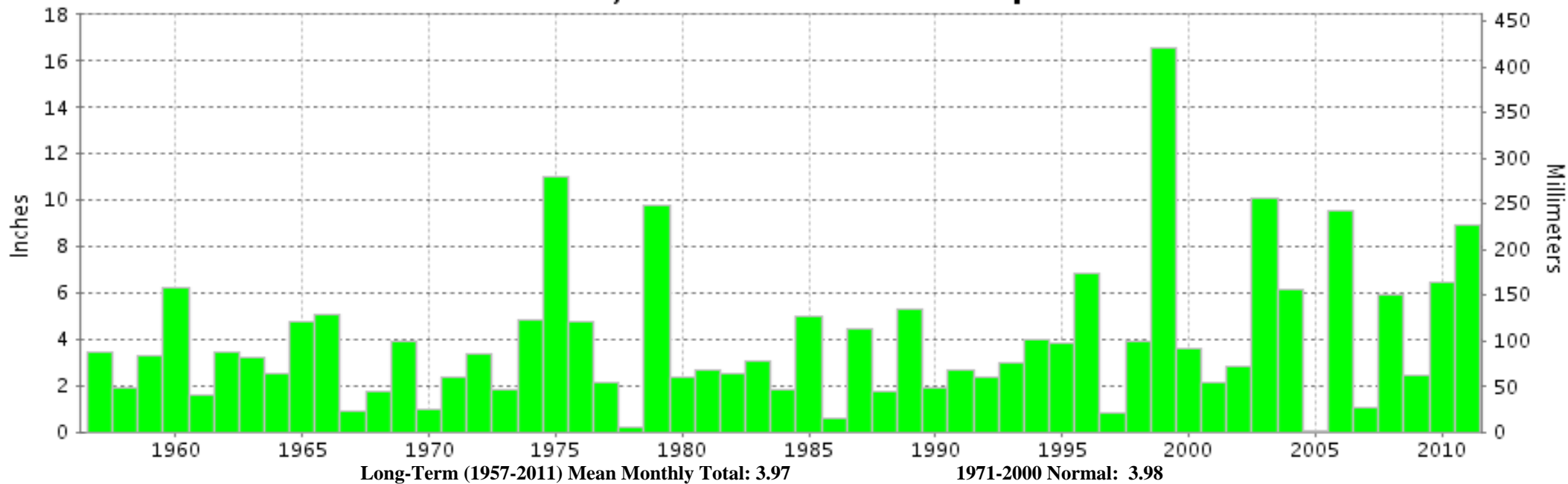
WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		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	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: 0549 SEP 13							SUNSET: 1821							SUNRISE: 0554 SEP 19							SUNSET: 1811								
01	CLR	NC			10.00		68	63	65	84	3	19	29.83	30.02	01	OVC	060			10.00		60	56	58	87	5	01	30.09	30.29
04	CLR	NC			7.00		65	63	64	93	3	21	29.81	30.00	04	OVC	060			10.00		60	57	58	90	6	02	30.07	30.26
07	CLR	NC			6.00	BR	68	64	66	87	3	27	29.84	30.02	07	BKN	250			10.00		61	57	59	87	6	01	30.08	30.27
10	CLR	NC			10.00		81	63	69	54	0	00	29.85	30.03	10	BKN	250			10.00		68	57	62	68	7	05	30.08	30.27
13	SCT	250			10.00		86	59	69	40	9	26	29.81	30.00	13	BKN	250			10.00		72	56	63	57	6	12	30.03	30.22
16	SCT	060			10.00		85	60	69	43	11	21	29.77	29.96	16	BKN	250			10.00		72	57	63	59	6	12	29.97	30.16
19	SCT	250			10.00		76	65	69	69	3	21	29.78	29.97	19	BKN	055			10.00		68	60	63	76	5	13	29.96	30.15
22	CLR	NC			10.00		72	65	68	79	0	00	29.79	29.98	22	OVC	250			10.00		64	60	62	87	6	14	29.97	30.16
SUNRISE: 0550 SEP 14							SUNSET: 1819							SUNRISE: 0555 SEP 20							SUNSET: 1810								
01	CLR	NC			9.00		69	66	67	90	0	00	29.79	29.98	01	OVC	180			10.00		64	61	62	90	5	16	29.94	30.13
04	CLR	NC			7.00		68	64	66	87	3	16	29.78	29.96	04	OVC	040			10.00		63	61	62	93	5	18	29.92	30.11
07	FEW	250			5.00	BR	68	65	66	90	3	19	29.80	29.99	07	OVC	200			7.00		64	63	63	97	6	21	29.97	30.16
10	CLR	NC			10.00		82	63	70	53	3	VR	29.81	29.99	10	OVC	250			10.00		73	62	66	69	6	26	29.99	30.18
13	FEW	250			10.00		87	61	70	42	6	19	29.78	29.96	13	OVC	250			10.00		76	62	67	62	6	26	29.96	30.15
16	CLR	NC			10.00		88	61	71	40	8	20	29.73	29.92	16	BKN	300			10.00		75	64	68	69	5	04	29.93	30.12
19	FEW	250			10.00		79	65	70	62	0	00	29.74	29.93	19	BKN	170			10.00		71	65	67	81	5	08	29.95	30.14
22	SCT	200			10.00		73	66	69	79	0	00	29.75	29.94	22	BKN	160			10.00		68	66	67	93	6	13	29.97	30.16
SUNRISE: 0551 SEP 15							SUNSET: 1817							SUNRISE: 0556 SEP 21							SUNSET: 1808								
01	FEW	250			10.00		70	66	67	87	5	18	29.75	29.93	01	BKN	150			7.00		66	65	65	97	3	12	29.98	30.16
04	FEW	250			7.00		69	66	67	90	0	00	29.70	29.89	04	OVC	050			10.00		68	66	67	93	0	00	29.97	30.16
07	FEW	250			4.00	BR	69	67	68	93	3	17	29.71	29.90	07	OVC	150			10.00		68	66	67	93	0	00	29.99	30.18
10	SCT	250			10.00		81	66	71	60	5	28	29.72	29.91	10	OVC	100			10.00		75	68	70	79	8	11	30.00	30.19
13	BKN	250			10.00		88	66	73	48	7	02	29.68		13	OVC	018			10.00	-RA	74	70	71	87	7	12	29.96	30.15
16	OVC	210			10.00		76	66	70	71	17	36	29.71	29.90	16	BKN	095			10.00		78	68	71	71	0	00	29.91	30.10
19	OVC	050			10.00		62	52	56	70	25	35	29.89	30.08	19	BKN	095			7.00	-RA	71	70	70	97	3	12	29.92	30.11
22	OVC	140			10.00		59	46	52	62	14	36	29.99	30.18	22	BKN	130			10.00	-RA	70	69	69	97	3	12	29.93	30.12
SUNRISE: 0552 SEP 16							SUNSET: 1816							SUNRISE: 0557 SEP 22							SUNSET: 1807								
01	BKN	100			10.00		57	45	51	64	10	36	30.05		01	OVC	003			2.00	BR	71	70	70	97	0	00	29.92	30.11
04	FEW	100			10.00		51	43	47	74	9	35	30.07	30.27	04	OVC	007			2.00	BR	71	71	71	100	3	21	29.91	30.10
07	BKN	250			10.00		52	42	47	69	9	36	30.14	30.33	07	OVC	002			1.75	BR	71	71	71	100	0	00	29.94	30.13
10	OVC	250			10.00		59	42	51	54	10	01	30.17	30.36	10	OVC	090			10.00		75	71	72	87	5	19	29.95	30.14
13	OVC	250			10.00		64	44	54	48	7	VR	30.16	30.35	13	OVC	090			10.00		79	71	74	77	5	18	29.93	30.12
16	BKN	180			10.00		64	45	54	50	7	04	30.13	30.32	16	OVC	120			10.00		79	70	73	74	0	00	29.92	30.10
19	OVC	200			10.00		60	49	54	67	3	03	30.13	30.33	19	OVC	130			10.00		75	72	73	90	0	00	29.91	30.10
22	OVC	110			10.00		58	49	53	72	5	05	30.14	30.34	22	OVC	130			10.00		74	72	73	94	6	18	29.93	30.12
SUNRISE: 0553 SEP 17							SUNSET: 1814							SUNRISE: 0558 SEP 23							SUNSET: 1805								
01	OVC	110			10.00		57	49	53	75	5	02	30.13	30.32	01	OVC	120			10.00		72	70	71	93	5	16	29.91	30.10
04	OVC	060			10.00		57	51	54	80	6	02	30.11	30.31	04	OVC	005			7.00	-RA	72	71	71	97	3	17	29.86	30.05
07	OVC	055			10.00		58	52	55	81	0	00	30.15	30.35	07	OVC	005			6.00	BR	72	71	71	97	7	14	29.84	30.03
10	OVC	050			10.00		59	55	57	87	3	04	30.18	30.37	10	OVC	080			10.00		74	71	72	90	9	15	29.86	30.05
13	OVC	040			10.00	-RA	59	55	57	87	7	07	30.17	30.37	13	OVC	026			2.00	-RA BR	74	71	72	90	13	12	29.77	29.96
16	OVC	044			10.00		59	54	56	84	9	04	30.14	30.33	16	OVC	110			3.00	-RA BR	73	71	72	93	9	17	29.71	29.90
19	OVC	120			10.00		58	52	55	81	5	02	30.14	30.34	19	OVC	013			10.00		72	70	71	93	6	18	29.73	29.92
22	OVC	080			10.00		58	54	56	87	7	36	30.16	30.35	22	SCT	022			10.00		70	69	69	97	5	22	29.78	29.97
SUNRISE: 0553 SEP 18							SUNSET: 1813							SUNRISE: 0558 SEP 24							SUNSET: 1804								
01	OVC	019			10.00		58	53	55	84	7	36	30.14	30.33	01	SCT	250			6.00	MIFG BR	67	66	66	97	3	18	29.78	29.97
04	OVC	019			10.00		57	53	55	87	9	35	30.13	30.32	04	VV	002			0.25	FG	68	67	67	97	3	17	29.79	29.98
07	OVC	025			10.00		57	53	55	87	9	36	30.16	30.35	07	OVC	008			0.25	-RA FG	68	68	68	100	0	00	29.84	30.03
10	OVC	025			10.00		61	55	58	81	10	36	30.17	30.36	10	OVC	012			3.00	-DZ BR	71	69	70	93	9	04	29.86	30.05
13	OVC	035			10.00		65	56	60	73	9	01	30.15	30.34	13	OVC	022			10.00		74	70	71	87	0	00	29.86	30.04
16	OVC	022			10.00		65	56	60	73	8	01	30.12	30.32	16	OVC	035			10.00		74	70	71	87	3	04	29.84	30.03
19	OVC	024			10.00		63	56	59	78	6	02	30.12	30.32	19	OVC	250			9.00		72	70	71	93	3	36	29.86	30.05
22	OVC	055			10.00		61	56	58	84	6	36	30.13	30.32	22	OVC	027			6.00	BR	71	70	70	97	0	00	29.89	30.08

RICHMOND, VA SEPTEMBER Temperatures



RICHMOND, VA SEPTEMBER Precipitation





SEPTEMBER 2011
RICHMOND, VA

LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA-National Weather Service / Department Of Transportation-Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.

DIRECTOR

NCDC now offers an annual online subscription for the **Edited Local Climatological Data Publication**. When you purchase this subscription service, you will have **immediate online access** to all previous publications back to July 1996 and all publications thereafter until the expiration of the subscription. Your subscription is valid for one year after purchase. **The total cost for online delivery (including back issues) is significantly less than the cost for offline delivery.** To order this and other subscriptions online with your credit card, go to: **www.ncdc.noaa.gov** and choose subscriptions.

We welcome your questions or comments, please contact us at:
(828) 271-4800, option 2
Fax Number : 828-271-4876
TDD : (828) 271-4010
or Email : ncdc.info@noaa.gov
Local Climatological Data is available at www.ncdc.noaa.gov

NOAA\National Climatic Data Center
Attn: User Engagement & Services Branch
151 Patton Avenue
Asheville, NC 28801-5001

OFFICIAL BUSINESS, PENALTY FOR PRIVATE USE \$300

FIRST CLASS
POSTAGE AND FEES PAID
NOAA
PERMIT G-19