



SEPTEMBER 2013 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			
																			SPEED 20	DIR 21	SPEED 22	DIR 23		
01	92	71	82	8	71	73	0	17	0		0.0	0.06	29.67	29.84	6.0	20	6.9	33	20	25	21	01		
02	91	73	82	8	71	74	0	17	0		0.0	0.00	29.63	29.81	5.2	23	5.9	21	22	15	22	02		
03	88	71	80	7	68	72	0	15	0		0.0	0.00	29.65	29.86	2.9	36	5.1	18	02	16	02	03		
04	84	66	75	2	60	65	0	10	0		0.0	0.00	29.86	30.06	2.9	34	5.4	16	02	13	02	04		
05	89	64	77	4	61	67	0	12	0		0.0	0.00	29.88	30.07	2.7	01	4.1	17	02	14	02	05		
06	81	63	72	0	57	63	0	7	0		0.0	0.00	29.98	30.17	4.9	02	6.0	18	01	14	02	06		
07	81	59	70	-2	59	64	0	5	0		0.0	0.00	29.90	30.07	3.2	22	3.7	16	22	10	20	07		
08	90	65	78	6	64	69	0	13	0		0.0	T	29.75	29.95	1.3	34	2.1	15	02	10	02	08		
09	81	70	76	4	66	69	0	11	0		0.0	0.00	29.94	30.14	4.1	07	5.5	16	03	12	05	09		
10	93	69	81	10	70	73	0	16	0		0.0	0.00	29.99	30.18	5.7	20	6.5	18	23	15	22	10		
11	93	71	82	11	69	72	0	17	0		0.0	0.00	29.95	30.12	5.7	18	5.9	21	22	15	19	11		
12	93*	70	82*	11	69	72	0	17	0		0.0	0.48	29.75	29.89	4.1	21	6.1	49*	25	33*	24	12		
13	83	64	74	3	60	66	0	9	0		0.0	0.00	29.60	29.81	7.6	35	8.1	21	35	17	34	13		
14	74	55	65	-6	48	55	0	0	0		0.0	0.00	29.86	30.08	6.9	35	7.3	23	34	18	35	14		
15	80	51	66	-4	52	58	0	1	0		0.0	0.00	30.01	30.19	2.3	18	3.2	21	16	15	20	15		
16	84	60	72	2	59	63	0	7	0		0.0	T	29.94	30.14	3.0	33	5.9	21	36	17	34	16		
17	72	52	62	-8	50	56	3	0	0		0.0	0.00	30.13	30.33	6.8	03	7.4	21	02	16	02	17		
18	74	49*	62	-8	49	55	3	0	0		0.0	0.00	30.10	30.28	1.1	07	2.8	12	05	10	05	18		
19	78	52	65	-5	54	59	0	0	0		0.0	0.00	29.98	30.16	2.4	15	2.9	12	15	9	14	19		
20	81	57	69	0	58	62	0	4	0		0.0	0.00	29.88	30.06	4.0	15	4.4	20	14	12	13	20		
21	79	58	69	1	62	64	0	4	0		0.0	0.81	29.68	29.85	6.0	17	6.7	32	25	23	25	21		
22	79	60	70	2	57	61	0	5	0		0.0	0.04	29.63	29.84	8.4	36	8.6	22	01	16	36	22		
23	72	52	62*	-6	48	54	3	0	0		0.0	0.00	29.85	30.06	6.5	36	7.0	17	32	14	33	23		
24	76	50	63	-4	49	55	2	0	0		0.0	0.00	29.88	30.05	1.1	33	2.5	16	32	12	35	24		
25	79	50	65	-2	53	58	0	0	0		0.0	0.00	29.75	29.94	0.5	04	1.1	14	02	9	02	25		
26	79	58	69	3	54	60	0	4	0		0.0	0.00	29.78	29.99	4.9	04	5.4	17	03	14	02	26		
27	76	55	66	0	54	58	0	1	0		0.0	0.00	29.96	30.17	4.6	05	5.2	18	05	14	07	27		
28	72	54	63	-3	54	58	2	0	0		0.0	0.00	30.06	30.25	7.3	02	7.6	21	03	15	05	28		
29	77	55	66	1	56	59	0	1	0		0.0	0.00	29.95	30.13	4.6	01	5.0	21	35	14	36	29		
30	78	54	66	1	53	58	0	1	0		0.0	0.00	29.88	30.07	0.3	32	2.0	13	03	9	01	30		

81.6	59.9	70.8	☼	58.5	63.1	0.4	6.5	< MONTHLY AVERAGES TOTALS >				0.0	1.39	29.86	30.05	1.1	01	5.2	< MONTHLY AVERAGES			
0.4	-0.2	0.2		-----DEPARTURE FROM NORMAL ----->								-2.74	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS								GREATEST 24-HR PRECIPITATION : 0.85 DATE : 21-22				SEA LEVEL PRESSURE				DATE TIME						
MONTHLY				SEASON TO DATE				GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.40 17 1054										
TOTAL DEPARTURE				TOTAL DEPARTURE				GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.73 21 1809										
HEATING :		13 -15		13		-16		NUMBER OF -> DAYS WITH		MAXIMUM TEMP >= 90 : 6		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH : 4								
COOLING :		194 -3		1599		95				MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH : 2								
										THUNDERSTORMS : 2		HEAVY FOG : 0		SNOWFALL >= 1.0 INCH : 0								

**SEPTEMBER 2013
RICHMOND, VA**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
SEPTEMBER 2013

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							0.05	0.01	T	T	T	01	0.06	0.06	
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										T		08	T	T	
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12													12					T	0.25			0.23	T	12	0.48	0.48		
13													13											13	0.00	0.00		
14													14											14	0.00	0.00		
15													15											15	0.00	0.00		
16											T	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		T	0.05	T	T	0.01	0.01	0.17	0.18	0.13	0.15	0.11	21	0.81	0.81	
22	0.04											22												22	0.04	0.04		
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	0.00	0.00		
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)	0.22	0.25	0.25	0.25	0.25	0.25	0.26	0.31	0.34	0.38	0.46	0.54
Ending Date	12	12	12	12	12	12	21	21	21	21	21	21
Ending Time (Hr/Min)	2224	1921	1921	1921	1921	1921	2038	2056	2120	2138	2203	2236

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.

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).

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	
VC In the Vicinity	UP Unkown Precipitation		GL Glaze

Intensity (as indicated on pages 4 to 6):
'+' = Heavy '' = Moderate '-' = Light

RICHMOND, VA SEPTEMBER 2013

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet.

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.

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

NORMALS ARE FOR THE YEARS 1981-2010

ADDITIONAL NOTES & ERRATA:

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

Beginning with the January 2013 LCD, monthly mean temperature calculations have changed to the National Data Stewardship Team standard. Monthly maximum and minimum temperature are not rounded until after monthly mean temperature is calculated. This is the most accurate outcome, but may be slightly different from the mean derived from rounded monthly maximum and minimum.

Date	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	8.00	10.00
02	7.00	10.00
03	6.00	10.00
04	10.00	10.00
05	5.00	10.00
06	10.00	10.00
07	10.00	10.00
08	9.00	10.00
09	5.00	10.00
10	2.00	10.00
11	4.00	10.00
12	5.00	10.00
13	4.00	10.00
14	10.00	10.00
15	10.00	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	2.00	10.00
22	10.00	10.00
23	10.00	10.00
24	10.00	10.00
25	7.00	10.00
26	10.00	10.00
27	10.00	10.00
28	9.00	10.00
29	10.00	10.00
30	10.00	10.00
AVGS	8.10	10.00
MINIMUM VISIBILITY (MILES)		
<= .25	<= 3.0	>= 7.0
0	2	22

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
SEPTEMBER 2013 KRIC

WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL						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	BKN	220	10.00		74	69	71	85	3	15	29.69	29.87	01	CLR	NC	10.00		62	58	60	86	0	00	29.96	30.15
04	SCT	250	10.00		73	69	70	87	0	00	29.66	29.85	04	CLR	NC	10.00		60	57	58	90	0	00	29.95	30.14
07	BKN	250	8.00		73	70	71	90	6	19	29.68	29.87	07	BKN	250	10.00		60	57	58	90	0	00	29.95	30.14
10	BKN	250	10.00		83	72	75	70	10	23	29.70	29.88	10	SCT	250	10.00		75	57	64	54	8	22	29.95	30.14
13	SCT	039	10.00		91	73	78	56	7	VR	29.65	29.83	13	BKN	041	10.00		78	58	66	50	9	23	29.88	30.07
16	BKN	300	10.00		91	71	77	52	6	20	29.60	29.79	16	OVC	300	10.00		80	61	68	52	7	21	29.82	30.01
19	OVC	240	9.00	TS	81	70	74	69	22	21	29.65	29.84	19	BKN	300	10.00		73	63	67	71	3	17	29.80	29.99
22	OVC	160	10.00	-RA	74	72	73	94	5	19	29.65	29.83	22	SCT	300	10.00		68	63	65	84	0	00	29.79	29.98
SUNRISE: 0540 SEP 02					SUNSET: 1837					SUNRISE: 0545 SEP 08					SUNSET: 1828										
01	OVC	150	10.00		74	71	72	91	6	20	29.63	29.82	01	FEW	300	10.00		67	61	63	81	0	00	29.78	29.96
04	OVC	008	9.00		74	71	72	91	7	21	29.62	29.80	04	SCT	300	10.00		66	61	63	84	0	00	29.76	29.95
07	OVC	009	7.00		74	71	72	91	7	22	29.64	29.83	07	BKN	300	10.00		68	63	65	84	0	00	29.76	29.95
10	OVC	014	10.00		80	71	74	74	8	26	29.66	29.85	10	FEW	120	10.00		82	62	69	51	6	VR	29.76	29.95
13	BKN	300	10.00		87	71	76	59	0	00	29.64	29.83	13	FEW	035	10.00		88	63	72	43	6	34	29.73	29.92
16	BKN	300	10.00		89	69	75	52	8	23	29.59	29.78	16	FEW	055	10.00		89	65	73	45	6	32	29.71	29.90
19	SCT	300	10.00		81	73	75	77	5	19	29.60	29.78	19	SCT	300	9.00		81	68	72	65	0	00	29.74	29.93
22	SCT	300	10.00		77	72	74	85	0	00	29.61	29.80	22	OVC	110	10.00		77	68	71	74	0	00	29.81	29.99
SUNRISE: 0541 SEP 03					SUNSET: 1836					SUNRISE: 0546 SEP 09					SUNSET: 1827										
01	CLR	NC	9.00		74	71	72	91	5	20	29.60	29.79	01	OVC	150	10.00		75	69	71	82	5	04	29.85	30.04
04	CLR	NC	7.00		73	70	71	90	5	20	29.59	29.78	04	BKN	075	10.00		72	64	67	76	8	03	29.89	30.08
07	BKN	250	6.00	HZ	77	72	74	85	6	32	29.64	29.83	07	BKN	250	10.00		70	59	63	68	6	03	29.97	30.16
10	SCT	250	10.00		84	67	73	57	9	01	29.69	29.88	10	BKN	250	10.00		75	62	67	64	6	06	30.00	30.19
13	BKN	250	10.00		86	67	73	53	6	34	29.68	29.86	13	OVC	055	10.00		80	67	71	64	3	VR	29.99	30.17
16	BKN	250	10.00		85	66	72	53	8	02	29.66	29.84	16	OVC	250	10.00		80	69	73	69	6	11	29.96	30.15
19	BKN	250	10.00		79	68	72	69	0	00	29.69	29.88	19	BKN	250	10.00		75	69	71	82	6	12	29.96	30.15
22	SCT	055	10.00		73	68	70	84	0	00	29.75	29.94	22	BKN	250	9.00		72	69	70	91	5	13	29.99	30.17
SUNRISE: 0542 SEP 04					SUNSET: 1834					SUNRISE: 0547 SEP 10					SUNSET: 1825										
01	BKN	045	10.00		71	61	65	71	5	01	29.80	29.99	01	SCT	250	4.00	BR	71	68	69	90	5	13	29.99	30.18
04	OVC	075	10.00		69	58	62	68	7	01	29.84	30.03	04	FEW	003	2.00	BR	70	68	69	93	5	16	29.98	30.17
07	SCT	050	10.00		69	58	62	68	6	36	29.89	30.08	07	BKN	250	2.50	BR	72	69	70	91	3	19	30.02	30.21
10	SCT	300	10.00		78	58	66	50	8	35	29.91	30.10	10	SCT	250	10.00		83	71	75	67	8	22	30.03	30.22
13	BKN	300	10.00		81	58	67	45	5	VR	29.90	30.09	13	SCT	250	10.00		91	69	76	49	10	24	29.99	30.18
16	BKN	300	10.00		82	61	69	49	8	24	29.87	30.06	16	SCT	250	10.00		91	70	76	50	8	20	29.94	30.13
19	SCT	200	10.00		78	61	67	56	5	29	29.87	30.06	19	SCT	300	10.00		83	72	75	70	5	15	29.95	30.14
22	CLR	NC	10.00		70	64	66	82	0	00	29.89	30.08	22	SCT	300	10.00		78	71	73	79	7	19	30.00	30.19
SUNRISE: 0543 SEP 05					SUNSET: 1833					SUNRISE: 0548 SEP 11					SUNSET: 1824										
01	CLR	NC	7.00		68	64	66	87	3	20	29.89	30.08	01	CLR	NC	9.00		75	69	71	82	5	18	29.99	30.18
04	CLR	NC	8.00		66	63	64	90	0	00	29.87	30.06	04	CLR	NC	6.00	BR	72	68	69	87	5	18	29.97	30.15
07	FEW	250	6.00	BR	68	64	66	87	0	00	29.90	30.09	07	FEW	250	5.00	BR	73	69	70	87	5	19	29.99	30.18
10	FEW	250	10.00		82	64	70	55	8	04	29.90	30.09	10	FEW	250	10.00		85	70	75	61	0	00	29.99	30.17
13	SCT	250	10.00		88	58	69	36	0	00	29.87	30.06	13	BKN	250	10.00		91	71	77	52	9	19	29.95	30.13
16	SCT	300	10.00		89	58	69	35	5	01	29.83	30.02	16	BKN	300	8.00		91	69	76	49	11	18	29.88	30.07
19	SCT	300	10.00		78	60	67	54	0	00	29.85	30.04	19	SCT	300	9.00		80	69	73	69	7	18	29.88	30.07
22	BKN	080	10.00		74	63	67	69	8	01	29.91	30.10	22	FEW	300	10.00		75	66	69	74	5	18	29.89	30.07
SUNRISE: 0543 SEP 06					SUNSET: 1831					SUNRISE: 0548 SEP 12					SUNSET: 1822										
01	BKN	070	10.00		73	54	62	51	11	01	29.95	30.14	01	CLR	NC	10.00		73	66	69	79	5	19	29.84	30.03
04	SCT	070	10.00		65	55	59	70	7	02	29.96	30.15	04	CLR	NC	7.00		72	67	69	84	7	20	29.81	29.99
07	SCT	250	10.00		66	53	59	63	11	02	30.01	30.20	07	FEW	250	6.00	HZ	72	67	69	84	5	19	29.81	30.00
10	SCT	250	10.00		74	58	64	57	8	02	30.04	30.23	10	FEW	250	9.00		84	70	74	63	0	00	29.77	29.95
13	SCT	250	10.00		77	59	66	54	7	09	30.01	30.20	13	SCT	250	10.00		90	71	77	54	7	20	29.70	29.88
16	SCT	050	10.00		79	56	65	45	7	VR	29.95	30.14	16	SCT	300	7.00		92	70	77	49	10	26	29.60	29.78
19	BKN	300	10.00		72	60	65	66	5	08	29.96	30.14	19	OVC	150	7.00	-TSRA	77	64	69	65	21	33	29.63	29.82
22	BKN	040	10.00		67	60	63	79	0	00	29.98	30.16	22	BKN	230	8.00		73	69	70	87	0	00	29.59	29.78

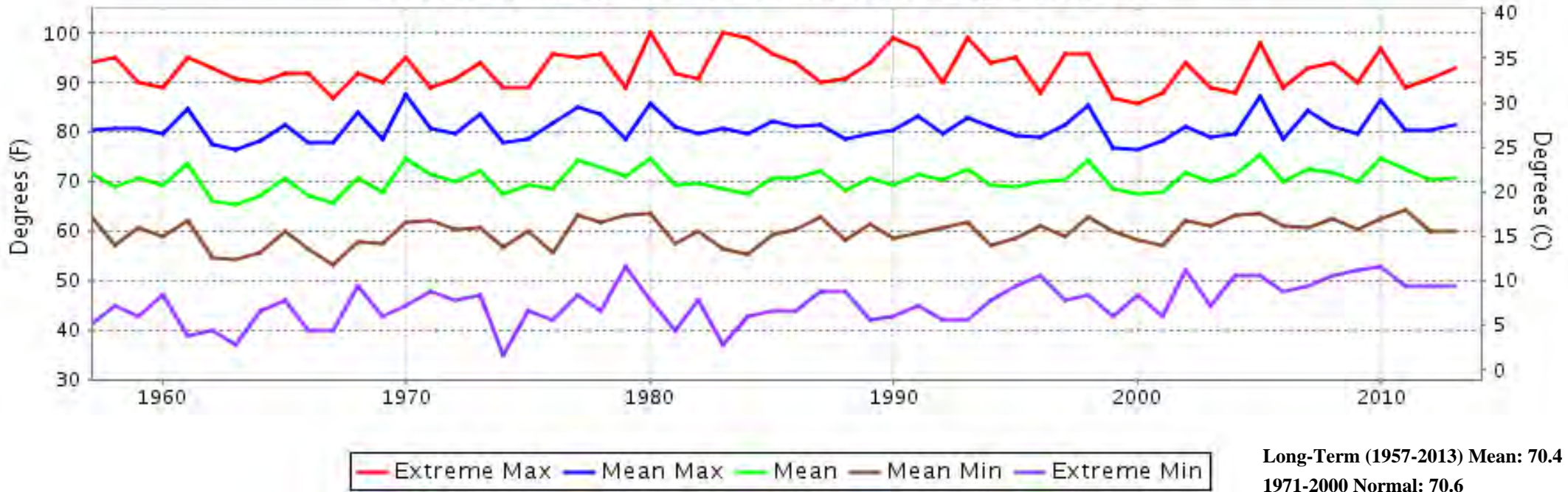
OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
SEPTEMBER 2013 KRIC

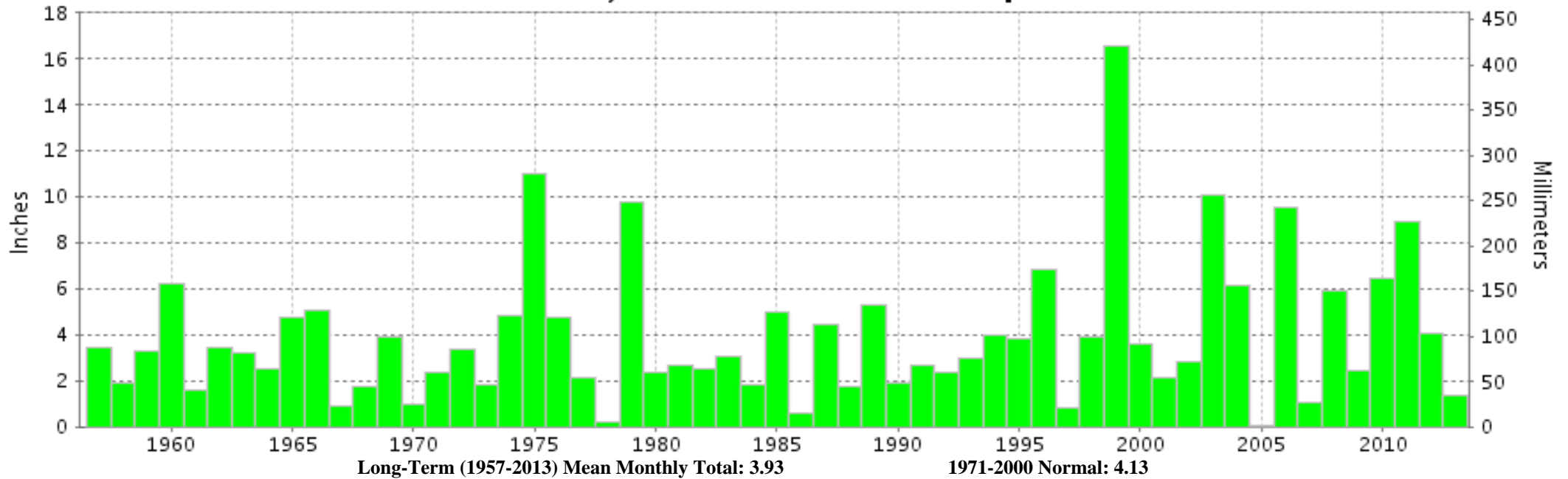
WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL						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	220	5.00	BR	72	69	70	91	0	00	29.58	29.76	01	BKN	150	10.00		59	53	56	81	0	00	30.03	30.22
04	BKN	200	6.00	BR	73	70	71	90	0	00	29.54	29.73	04	FEW	150	10.00		54	51	52	90	0	00	30.00	30.20
07	BKN	250	7.00		72	68	69	87	7	30	29.59	29.78	07	FEW	150	10.00		57	53	55	87	0	00	30.02	30.21
10	SCT	250	10.00		79	61	68	54	9	01	29.61	29.80	10	SCT	150	10.00		71	53	61	53	6	15	30.03	30.22
13	BKN	250	10.00		81	56	66	42	15	33	29.61	29.80	13	SCT	080	10.00		77	54	63	45	5	VR	29.97	30.16
16	BKN	090	10.00		79	55	65	44	11	34	29.60	29.79	16	BKN	070	10.00		78	55	64	45	6	14	29.92	30.11
19	SCT	300	10.00		72	56	63	57	3	35	29.65	29.84	19	SCT	250	10.00		67	58	62	73	6	14	29.93	30.12
22	FEW	095	10.00		68	52	59	57	14	01	29.73	29.92	22	FEW	050	10.00		63	57	60	81	0	00	29.93	30.12
SUNRISE: 0550 SEP 14					SUNSET: 1819					SUNRISE: 0555 SEP 20					SUNSET: 1810										
01	BKN	085	10.00		64	49	56	58	14	35	29.76	29.95	01	FEW	050	10.00		61	55	58	81	0	00	29.93	30.12
04	BKN	085	10.00		60	49	54	67	10	36	29.80	29.99	04	BKN	070	10.00		60	56	58	86	0	00	29.92	30.10
07	SCT	080	10.00		59	48	53	67	11	35	29.87	30.06	07	BKN	250	10.00		61	57	59	87	0	00	29.92	30.11
10	FEW	060	10.00		66	48	56	52	15	34	29.92	30.10	10	BKN	047	10.00		73	61	66	66	5	17	29.91	30.10
13	FEW	037	10.00		71	48	58	44	8	32	29.90	30.09	13	BKN	039	10.00		78	59	66	52	6	19	29.87	30.06
16	FEW	035	10.00		72	46	58	40	3	33	29.89	30.08	16	BKN	065	10.00		79	60	67	52	6	19	29.82	30.01
19	CLR	NC	10.00		64	50	56	60	3	01	29.94	30.13	19	SCT	300	10.00		70	61	64	73	8	14	29.81	30.00
22	CLR	NC	10.00		58	51	54	78	0	00	29.98	30.17	22	SCT	060	10.00		65	60	62	84	6	13	29.82	30.01
SUNRISE: 0551 SEP 15					SUNSET: 1817					SUNRISE: 0556 SEP 21					SUNSET: 1808										
01	CLR	NC	10.00		56	51	53	84	0	00	30.01	30.20	01	FEW	300	10.00		62	57	59	84	0	00	29.80	29.99
04	CLR	NC	10.00		52	49	50	89	0	00	30.01	30.21	04	SCT	300	10.00		60	57	58	90	0	00	29.77	29.96
07	SCT	300	10.00		56	50	53	81	0	00	30.05	30.24	07	SCT	300	10.00		62	58	60	86	3	14	29.74	29.93
10	SCT	300	10.00		71	49	59	46	0	00	30.08	30.27	10	BKN	250	10.00		75	59	65	58	9	17	29.71	29.90
13	SCT	300	10.00		77	51	62	40	5	VR	30.02	30.21	13	OVC	060	10.00		76	62	67	62	17	18	29.63	29.82
16	OVC	300	10.00		79	52	63	39	9	21	29.95	30.14	16	SCT	075	9.00	-RA	73	66	69	79	8	19	29.58	29.76
19	OVC	300	10.00		68	57	62	68	5	13	29.94	30.13	19	OVC	120	5.00	-RA BR	71	68	69	90	8	17	29.55	29.74
22	OVC	300	10.00		65	57	60	76	3	17	29.95	30.14	22	OVC	075	4.00	-RA BR	67	65	66	93	6	17	29.57	29.76
SUNRISE: 0552 SEP 16					SUNSET: 1816					SUNRISE: 0557 SEP 22					SUNSET: 1807										
01	BKN	250	10.00		64	56	59	75	0	00	29.95	30.14	01	OVC	030	10.00		66	63	64	90	6	02	29.57	29.76
04	BKN	250	10.00		61	57	59	87	6	20	29.92	30.11	04	SCT	065	10.00		64	61	62	90	5	33	29.58	29.77
07	BKN	250	10.00		65	61	63	87	5	24	29.92	30.11	07	SCT	150	10.00		63	59	61	87	9	36	29.63	29.82
10	SCT	250	10.00		80	63	69	56	7	24	29.91	30.10	10	FEW	029	10.00		72	59	64	64	11	36	29.66	29.85
13	OVC	095	10.00		73	61	66	66	9	35	29.93	30.12	13	SCT	038	10.00		77	54	63	45	13	36	29.64	29.83
16	BKN	080	10.00		73	59	64	62	10	36	29.93	30.12	16	SCT	070	10.00		76	53	62	45	7	02	29.63	29.82
19	BKN	300	10.00		67	60	63	79	0	00	29.97	30.16	19	FEW	060	10.00		67	55	60	66	3	02	29.69	29.88
22	FEW	300	10.00		63	56	59	78	5	33	30.03	30.22	22	SCT	055	10.00		62	55	58	78	10	01	29.73	29.92
SUNRISE: 0553 SEP 17					SUNSET: 1814					SUNRISE: 0558 SEP 23					SUNSET: 1805										
01	CLR	NC	10.00		59	54	56	83	5	36	30.05	30.24	01	SCT	055	10.00		58	50	54	75	8	36	29.78	29.97
04	CLR	NC	10.00		58	54	56	87	7	02	30.08	30.27	04	SCT	055	10.00		55	49	52	80	10	34	29.80	29.99
07	SCT	075	10.00		59	54	56	83	9	01	30.16	30.35	07	BKN	055	10.00		55	49	52	80	9	35	29.87	30.06
10	BKN	020	10.00		66	53	59	63	10	02	30.21	30.40	10	BKN	034	10.00		65	47	55	52	11	02	29.91	30.10
13	SCT	036	10.00		71	48	58	44	10	02	30.18	30.37	13	BKN	042	10.00		69	47	57	45	8	01	29.87	30.07
16	FEW	045	10.00		71	46	57	41	8	01	30.13	30.32	16	SCT	048	10.00		70	46	57	42	9	32	29.86	30.05
19	FEW	045	10.00		60	48	54	65	6	05	30.14	30.33	19	CLR	NC	10.00		60	48	54	65	3	03	29.88	30.07
22	CLR	NC	10.00		54	47	50	77	5	05	30.16	30.35	22	CLR	NC	10.00		54	49	51	83	0	00	29.92	30.11
SUNRISE: 0553 SEP 18					SUNSET: 1813					SUNRISE: 0558 SEP 24					SUNSET: 1804										
01	CLR	NC	10.00		51	47	49	86	0	00	30.15	30.35	01	CLR	NC	10.00		52	47	49	83	0	00	29.92	30.11
04	CLR	NC	10.00		50	47	49	89	3	35	30.13	30.32	04	CLR	NC	10.00		52	47	49	83	5	27	29.92	30.11
07	SCT	250	10.00		53	48	50	83	5	35	30.15	30.34	07	FEW	045	10.00		53	47	50	80	6	33	29.93	30.13
10	SCT	250	10.00		67	48	57	51	3	VR	30.15	30.35	10	CLR	NC	10.00		67	46	56	47	3	VR	29.93	30.12
13	BKN	250	10.00		71	48	58	44	3	12	30.09	30.28	13	FEW	050	10.00		73	48	59	41	7	VR	29.85	30.04
16	SCT	250	10.00		73	48	59	41	6	12	30.03	30.22	16	FEW	050	10.00		75	50	61	41	3	32	29.79	29.98
19	BKN	250	10.00		64	52	57	65	3	12	30.02	30.21	19	SCT	300	10.00		63	54	58	73	0	00	29.79	29.98
22	BKN	250	10.00		59	53	56	81	0	00	30.04	30.23	22	CLR	NC	10.00		58	52	55	81	0	00	29.80	29.99

RICHMOND, VA SEPTEMBER Temperatures



RICHMOND, VA SEPTEMBER Precipitation





**SEPTEMBER 2013
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.

A handwritten signature in black ink, appearing to read "Thomas R. Karl".

DIRECTOR

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