



# FEBRUARY 2015 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 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																								
									DEPTH 11	WATER- EQUIV 12	SNOW- FALL 13	WATER EQUIV 14					SPEED 20	DIR 21	SPEED 22	DIR 23																									
01	50	24	37	0	22	32	28	0	RA	0		0.0	T	30.01	30.16	5.0	15	6.1	18	18	14	17	01																						
02	58	29	44	7	36	43	21	0	RA BR	0		0.0	0.47	29.47	29.69	8.8	27	17.2	43	32	33	32	02																						
03	42	20	31	-6	14	26	34	0		0		0.0	0.00	30.09	30.31	1.2	16	3.1		9		33	03																						
04	57	27	42	5	23	34	23	0		0		0.0	0.00	30.02	30.19	10.0	20	10.5	28	22	21	21	04																						
05	45	22	34	-3	12	28	31	0		0		0.0	0.00	29.87	30.10	13.5	35	15.8	43	36	33	34	05																						
06	43	12	28	-9	4	22	37	0		0		0.0	0.00	30.13	30.32	5.1	23	7.2	21	23	16	21	06																						
07	61	23	42	5	17	33	23	0		0		0.0	0.00	29.95	30.12	7.9	20	8.4	25	21	21	21	07																						
08	71*	36	54*	16	28	42	11	0		0		0.0	0.00	29.70	29.87	10.2	20	10.3	32	21	23	21	08																						
09	59	35	47	9	35	43	18	0	RA BR	0		0.0	0.19	29.63	29.83	4.4	03	7.5	25	03	20	02	09																						
10	38	32	35	-4	31	33	30	0	RA DZ FZRA PL BR	0		T	0.37	29.75	29.96	14.7	01	14.8	28	36	21	01	10																						
11	49	28	39	0	24	32	26	0		0		0.0	0.00	29.83	30.02	4.4	01	8.0	22	36	17	35	11																						
12	48	27	38	-1	24	31	27	0	RA SN FG BR	0		T	0.03	29.69	29.91	5.2	33	7.3	36	36	29	36	12																						
13	31	17	24	-15	1	18	41	0		0		0.0	0.00	30.04	30.25	6.7	34	8.7	29	33	22	35	13																						
14	48	19	34	-5	12	26	31	0	SN	0		T	T	29.66	29.84	9.9	24	15.2	56*	32	44*	32	14																						
15	27	14	21	-19	-7	14	44	0		0		0.0	0.00	29.91	30.17	15.6	31	16.3	43	31	32	31	15																						
16	22	12	17	-23	2	13	48	0	SN FZFG BR	0		6.2	0.51	30.10	30.28	3.2	35	5.0	16	34	13	36	16																						
17	32	17	25	-15	13	20	40	0	SN PL BR	6		1.0	0.18	29.73	29.93	6.0	36	6.8	21	33	16	01	17																						
18	39	12	26	-14	12	22	39	0	SN	4		T	T	29.70	29.89	3.0	28	7.5	30	32	23	32	18																						
19	23	9	16	-24	-8	12	49	0		3		0.0	0.00	29.90	30.13	14.5	30	14.7	31	27	23	27	19																						
20	21	4	13*	-28	-9	8	52	0		3		0.0	0.00	30.23	30.47	4.3	27	5.8	18	27	15	30	20																						
21	34	4*	19	-22	14	22	46	0	RA SN BR	3		T	0.76	30.21	30.38	5.3	18	5.9	20	20	15	20	21																						
22	51	33	42	1	35	38	23	0	RA FG+ FG BR HZ	2		0.0	0.77	29.99	30.20	0.5	02	3.4	13	36	10	34	22																						
23	39	22	31	-11	19	29	34	0	RA	T		0.0	T	30.09	30.31	9.8	02	10.1	26	03	22	36	23																						
24	27	17	22	-20	6	19	43	0	SN	T		T	T	30.04	30.19	1.9	16	6.2	22	02	16	03	24																						
25	47	20	34	-8	17	29	31	0		T		0.0	0.00	29.74	29.94	2.4	25	5.7	15	13	12	13	25																						
26	37	24	31	-11	26	30	34	0	SN FG+ FZFG BR	5		5.0	0.49	29.74	29.97	6.5	02	7.4	26	02	20	02	26																						
27	37	25	31	-12	23	29	34	0	BR HZ	3		0.0	0.00	30.19	30.40	3.6	03	4.2	18	03	15	03	27																						
28	36	20	28	-15	8	22	37	0		1		0.0	0.00	30.56	30.78	4.8	03	5.5	21	03	16	03	28																						
										41.9		20.9		31.4		15.5		26.8		33.4		0.0		< MONTHLY AVERAGES   TOTALS >				12.2		3.77		29.93		30.13		2.6		31		8.7		< MONTHLY AVERAGES			
										-9.4		-9.6		-9.5		X		<-----DEPARTURE FROM NORMAL----->										1.01		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3															
<b>DEGREE DAYS</b>										GREATEST 24-HR PRECIPITATION : 1.53 DATE : 21-22										SEA LEVEL PRESSURE																									
MONTHLY										GREATEST 24-HR SNOWFALL : 6.2 DATE : 16										MAXIMUM : 30.87 28 1047																									
TOTAL DEPARTURE										GREATEST SNOW DEPTH : 6 DATE : 17										MINIMUM : 29.42 02 1054																									
SEASON TO DATE										NUMBER OF ->										MAXIMUM TEMP >= 90 : 0																									
TOTAL DEPARTURE										THUNDERSTORMS : 0										MINIMUM TEMP <= 32 : 25																									
HEATING : 935 260 3102 166										MAXIMUM TEMP <= 32 : 7										PRECIPITATION >= 0.01 INCH : 9																									
COOLING : 0 0 0 0										HEAVY FOG : 2										PRECIPITATION >= 0.10 INCH : 8																									
																				SNOWFALL >= 1.0 INCH : 3																									

**FEBRUARY 2015  
RICHMOND, VA**

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)  
FEBRUARY 2015

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	T	T	
02				0.01	0.05	0.03		T	0.02	T	0.06	0.27	02	0.03	T										02	0.47	0.47	
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					T	T	T	0.01	T	0.03	0.15	09	0.19	0.19	
10	0.05	0.03	0.06	0.06	0.08	0.06	0.02	0.01	T				10												10	0.37	0.37	
11													11												11	0.00	0.00	
12													12		T	0.02	0.01	T							12	0.03	0.03	
13													13												13	0.00	0.00	
14													14												14	T	T	
15													15								T				15	0.00	0.00	
16													16		T	0.01	0.01	0.01	0.02	0.06	0.10	0.08	0.07	0.08	0.07	16	0.51	0.51
17	0.03	0.02	0.04	0.04	0.02	0.02	0.01	T					17												17	0.18	0.18	
18													18					T	T						18	T	T	
19													19												19	0.00	0.00	
20													20												20	0.00	0.00	
21												T	21			0.01	0.06	0.02	T	0.03	0.02	0.02	0.05	0.20	0.35	21	0.76	0.76
22	0.28	0.07	0.10	0.07	0.08	0.08	0.06	0.02	0.01				22												22	0.77	0.77	
23													23												23	T	T	
24													24												24	T	T	
25													25				T	T	T	T					25	0.00	0.00	
26	T	0.03	0.10	0.10	0.08	0.11	0.05	0.01	0.01	T	T	T	26												26	0.49	0.49	
27													27												27	0.00	0.00	
28													28												28	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)	0.10	0.15	0.17	0.20	0.22	0.27	0.35	0.44	0.53	0.63	0.74	0.84
Ending Date	02	02	02	02	02	21	21	22	22	22	22	22
Ending Time (Hr/Min)	1111	1113	1117	1123	1130	2354	2359	0022	0036	0101	0059	0114

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 FEBRUARY 2015

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:METS, SRG, Snowboard

Date	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	10.00	10.00
02	4.00	10.00
03	10.00	10.00
04	10.00	10.00
05	10.00	10.00
06	10.00	10.00
07	10.00	10.00
08	10.00	10.00
09	4.00	10.00
10	3.00	10.00
11	10.00	10.00
12	0.50	10.00
13	10.00	10.00
14	10.00	10.00
15	10.00	10.00
16	0.50	10.00
17	0.75	10.00
18	7.00	10.00
19	10.00	10.00
20	10.00	10.00
21	1.50	10.00
22	0.25	10.00
23	10.00	10.00
24	9.00	10.00
25	9.00	10.00
26	0.12	10.00
27	2.00	10.00
28	10.00	10.00
<b>AVGS</b>	6.84	10.00
<b>MINIMUM VISIBILITY (MILES)</b>		
<= .25	<= 3.0	>= 7.0
2	8	18



OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA  
FEBRUARY 2015

KRIC

WBAN # 13740

Table with columns for Hour (LST), Sky Cover, Ceiling, Visibility, Weather, Temperature (Dry Bulb, Dew Point, Wet Bulb), Relative Humidity, Wind (Speed, Direction), Pressure (Station, Sea Level). Includes data for February 13-24, 2015, with sunrise and sunset times and weather conditions.

# OBSERVATIONS AT 3-HOURLY INTERVALS

**RICHMOND, VA**  
**FEBRUARY 2015**

**KRIC**

**WBAN # 13740**

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
<b>SUNRISE: 0646      FEB 25      SUNSET: 1759</b>												
01	FEW	070	10.00		24	16	22	71	8	25	29.68	29.88
04	CLR	NC	10.00		25	17	23	72	9	28	29.66	29.86
07	FEW	250	9.00		24	17	22	75	5	26	29.72	29.91
10	FEW	250	10.00		38	17	31	43	8	32	29.78	29.98
13	OVC	250	10.00		44	14	34	30	0	00	29.78	29.98
16	OVC	250	10.00		45	14	34	29	0	00	29.73	29.93
19	OVC	180	10.00		39	19	32	45	7	12	29.78	29.98
22	OVC	150	10.00		36	19	30	50	9	13	29.73	29.93
<b>SUNRISE: 0645      FEB 26      SUNSET: 1760</b>												
01	OVC	027	1.00	-SN	33	24	30	70	9	15	29.73	29.93
04	OVC	014	0.12	+SN FZFG	30	28	29	92	9	03	29.61	29.81
07			0.50						9	01		
10	OVC	021	2.00	-SN BR	32	27	30	82	15	01	29.67	29.86
13	OVC	018	10.00		35	27	32	72	14	36	29.70	29.90
16	OVC	039	10.00		37	26	33	65	8	01	29.78	29.98
19	OVC	030	10.00		34	27	31	76	0	00	29.88	30.08
22	CLR	NC	2.00	BR	27	24	26	89	0	00	29.94	30.14
<b>SUNRISE: 0644      FEB 27      SUNSET: 1801</b>												
01	OVC	049	5.00	BR	28	25	27	88	0	00	30.00	30.19
04	OVC	038	4.00	BR	30	27	29	88	0	00	30.03	30.22
07	SCT	300	2.00	BR	30	26	29	85	5	16	30.10	30.30
10	OVC	014	7.00		36	28	33	73	7	36	30.18	30.38
13	OVC	018	9.00		34	25	31	70	8	02	30.24	30.44
16	BKN	250	10.00		37	22	32	54	7	04	30.26	30.46
19	FEW	060	10.00		32	18	27	56	5	06	30.33	30.53
22	BKN	045	10.00		28	15	24	58	3	06	30.40	30.60
<b>SUNRISE: 0642      FEB 28      SUNSET: 1802</b>												
01	BKN	050	10.00		26	13	22	57	8	03	30.47	30.67
04	FEW	050	10.00		22	5	18	48	9	01	30.53	30.73
07	SCT	250	10.00		20	3	16	48	7	02	30.60	30.80
10	OVC	250	10.00		27	3	21	35	6	03	30.67	30.87
13	OVC	200	10.00		32	5	25	32	0	00	30.63	30.83
16	BKN	250	10.00		35	7	27	31	0	00	30.56	30.76
19	BKN	250	10.00		30	12	25	47	5	05	30.56	30.76
22	OVC	250	10.00		28	15	24	58	6	09	30.59	30.79

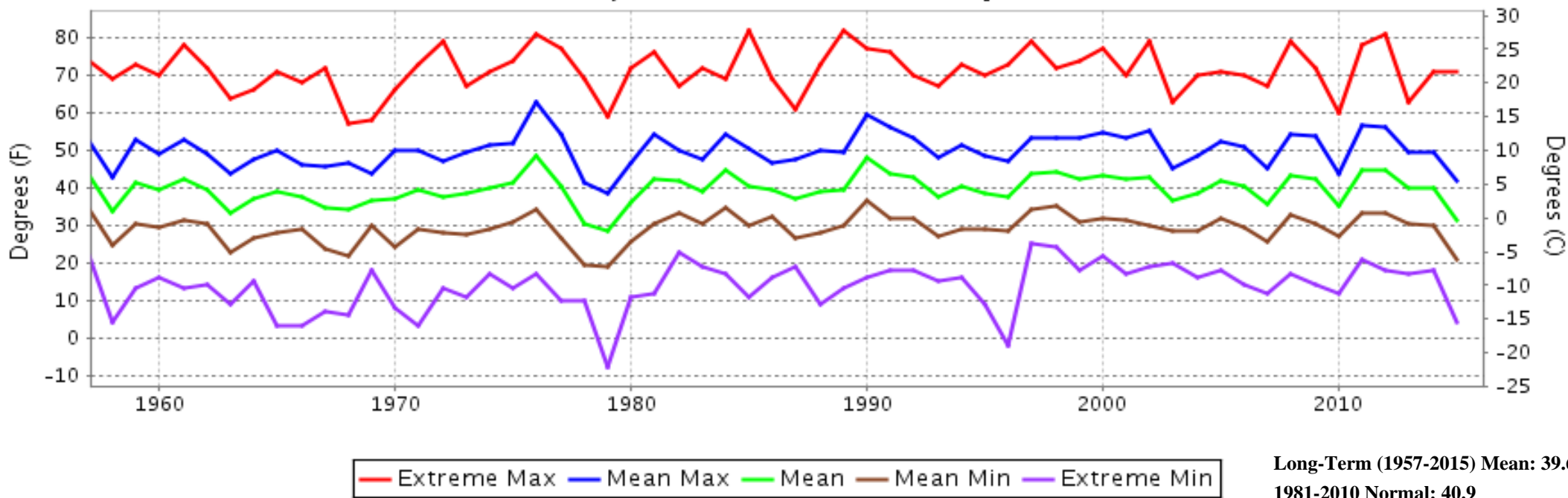
HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL

**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.

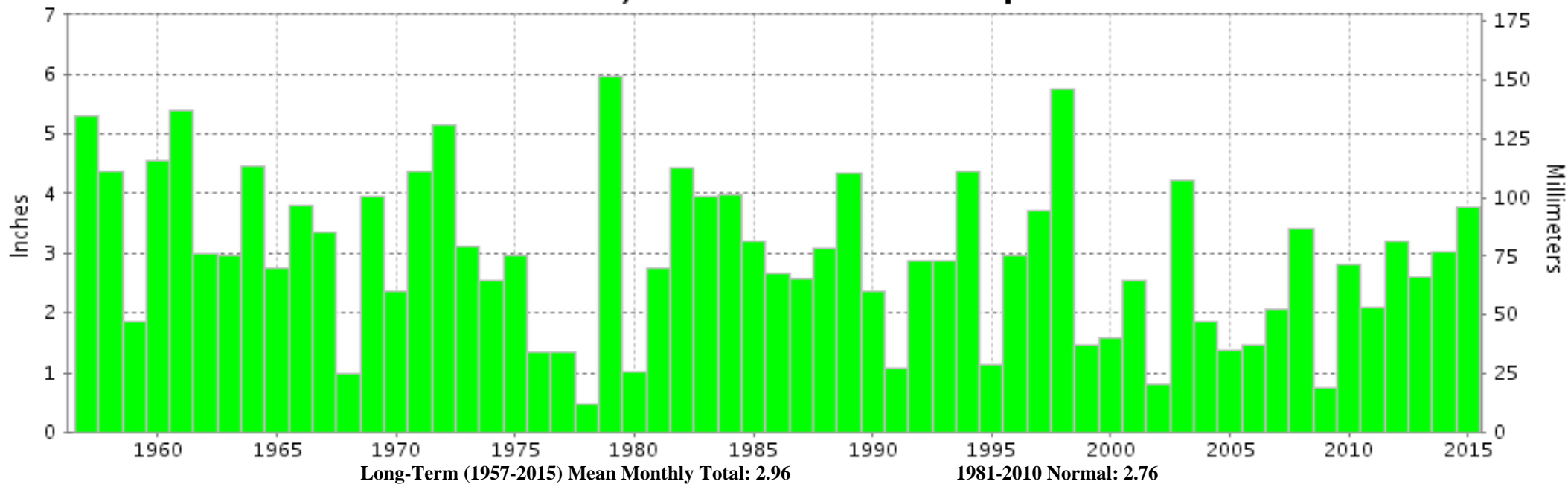
### SUMMARY BY HOUR

HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)	
	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
					STATION	SEA LEVEL				
01	28	14	24	60	29.93	30.12	8.67	8	3	32
02	27	15	24	61	29.92	30.12	8.82	8	3	31
03	27	15	24	62	29.92	30.12	8.88	7	2	32
04	27	15	23	63	29.92	30.11	8.65	7	3	32
05	26	15	23	65	29.92	30.12	8.30	7	3	31
06	26	14	23	64	29.94	30.14	8.58	8	3	31
07	26	15	23	65	29.95	30.15	8.53	7	3	31
08	27	15	24	63	29.97	30.17	8.69	8	3	33
09	30	16	26	58	29.97	30.17	8.95	10	3	32
10	32	15	27	52	29.96	30.16	9.23	10	3	32
11	35	16	29	48	29.96	30.16	9.07	10	3	31
12	37	16	30	45	29.94	30.14	9.14	10	4	30
13	38	16	31	43	29.92	30.12	9.82	10	4	30
14	39	16	31	42	29.90	30.10	9.59	11	4	30
15	39	16	31	42	29.89	30.09	9.02	11	4	30
16	39	16	32	43	29.89	30.09	9.39	10	4	30
17	38	16	31	44	29.90	30.09	9.64	9	3	31
18	36	16	29	48	29.91	30.11	9.46	9	3	31
19	34	16	28	51	29.92	30.12	9.34	8	2	33
20	32	16	27	54	29.93	30.13	9.20	9	2	33
21	31	16	27	56	29.95	30.14	8.95	9	3	31
22	30	15	25	57	29.95	30.15	8.95	8	3	32
23	29	15	25	58	29.95	30.15	8.78	8	3	32
24	28	14	24	59	29.93	30.13	8.78	8	3	31

## RICHMOND, VA FEBRUARY Temperatures



## RICHMOND, VA FEBRUARY Precipitation





**FEBRUARY 2015  
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**

NCDC now offers free online access to the **Edited Local Climatological Data Publication**. Go to : [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov) and choose Most Popular.

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.orders@noaa.gov](mailto:ncdc.orders@noaa.gov)

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