



# AUGUST 2017 LOCAL CLIMATOLOGICAL DATA

NOAA, National Centers for Environmental Information

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			
2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23				
01	90	62	76	-2	62	68	0	11		0		0.0	0.00	29.90	30.08	3.4	19	4.5	13	20	9	17	01	
02	90	69	80	2	64	69	0	15		0		0.0	0.00	29.88	30.07	5.0	19	5.8	17	17	13	18	02	
03	93*	69	81	3	66	71	0	16		0		0.0	0.00	29.90	30.08	6.3	18	6.8	24	17	20	17	03	
04	91	68	80	3	67	72	0	15		0		0.0	0.00	29.81	29.98	6.4	17	7.5	22	18	17	18	04	
05	88	64	76	-1	62	68	0	11		0		0.0	0.00	29.77	29.97	4.2	31	7.9	22	34	18	35	05	
06	89	59*	74	-3	58	65	0	9		0		0.0	0.00	29.91	30.11	3.7	13	5.1	20	14	15	14	06	
07	87	71	79	2	70	72	0	14	RA BR	0		0.0	0.81	29.80	29.96	5.1	20	9.5	30	22	23	24	07	
08	80	65	73	-4	66	68	0	8	RA BR	0		0.0	0.84	29.82	30.03	6.3	36	6.6	19	35	15	02	08	
09	84	63	74	-3	61	66	0	9		0		0.0	0.00	30.00	30.20	4.1	06	5.4	21	02	13	11	09	
10	85	62	74	-3	61	66	0	9		0		0.0	0.00	30.03	30.22	2.9	11	4.6	22	15	14	15	10	
11	85	65	75	-2	70	72	0	10	RA	0		0.0	0.03	29.92	30.09	6.6	15	6.9	19	13	15	14	11	
12	87	73	80	3	74	75	0	15	RA BR	0		0.0	0.30	29.75	29.93	4.8	19	5.9	19	21	14	22	12	
13	82	70	76	0	67	70	0	11	RA BR	0		0.0	0.19	29.79	29.99	3.7	03	5.2	20	01	17	01	13	
14	84	67	76	0	70	72	0	11		0		0.0	0.00	29.80	29.98	3.4	10	4.2	13	10	9	14	14	
15	84	74	79	3	75	75	0	14	RA BR	0		0.0	0.33	29.72	29.90	0.8	06	4.4	21	02	17	02	15	
16	91	73	82	6	72	75	0	17	BR HZ	0		0.0	0.00	29.80	30.00	1.4	03	4.3	13	34	9	32	16	
17	86	73	80	4	74	75	0	15	RA BR	0		0.0	T	29.83	30.00	6.4	17	6.6	25	19	22	19	17	
18	92	74	83*	7	75	77	0	18	TS TSRA RA BR	0		0.0	2.15	29.70	29.88	8.1	20	9.9	39*	31	30*	32	18	
19	89	74	82	6	72	74	0	17	TS RA	0		0.0	T	29.72	29.92	0.2	12	4.1	18	02	14	01	19	
20	89	71	80	4	70	72	0	15		0		0.0	0.00	29.90	30.11	2.8	07	5.3	15	03	13	03	20	
21	89	71	80	4	74	75	0	15	FG+ FG BR HZ	0		0.0	0.00	29.99	30.18	5.3	18	5.6	20	17	16	18	21	
22	91	73	82	6	73	76	0	17		0		0.0	0.00	29.85	30.00	8.7	20	9.0	23	19	18	19	22	
23	86	68	77	1	71	73	0	12	TS TSRA RA	0		0.0	0.14	29.67	29.87	2.4	34	6.8	22	01	18	36	23	
24	83	67	75	-1	64	67	0	10		0		0.0	0.00	29.76	29.96	5.5	02	5.8	19	04	14	03	24	
25	83	63	73	-3	63	66	0	8		0		0.0	0.00	29.91	30.12	4.6	02	4.9	14	07	12	36	25	
26	83	63	73	-3	62	66	0	8		0		0.0	0.00	30.01	30.20	5.2	06	6.7	21	04	16	04	26	
27	81	61	71	-4	57	62	0	6		0		0.0	0.00	30.01	30.20	7.0	05	7.4	22	03	17	05	27	
28	81	60	71	-4	60	63	0	6		0		0.0	0.00	29.98	30.16	10.1	05	11.0	24	10	21	10	28	
29	69	63	66*	-9	65	65	0	1	RA DZ BR	0		0.0	1.15	29.82	29.99	13.7	02	14.5	33	02	24	03	29	
30	81	63	72	-3	63	66	0	7		0		0.0	0.00	29.84	30.03	1.9	31	6.0	16	32	13	35	30	
31	87	65	76	1	66	70	0	11		0		0.0	0.00	29.80	29.99	2.6	26	3.6	20	26	15	24	31	

85.8	67.2	76.5	☼	66.9	70.0	0.0	11.6	< MONTHLY AVERAGES   TOTALS >				0.0	5.94	29.85	30.04	1.1	11	6.5	< MONTHLY AVERAGES			
-1.8	-0.2	-1.0		<----- DEPARTURE FROM NORMAL ----->								1.28	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

<b>DEGREE DAYS</b>				<b>GREATEST 24-HR PRECIPITATION :</b> 2.15 <b>DATE :</b> 18				<b>SEA LEVEL PRESSURE</b>			
<b>MONTHLY</b>				<b>GREATEST 24-HR SNOWFALL :</b> 0.0 <b>DATE :</b>				<b>MAXIMUM :</b> 30.27 10 0918			
<b>SEASON TO DATE</b>				<b>GREATEST SNOW DEPTH :</b> 0 <b>DATE :</b>				<b>MINIMUM :</b> 29.78 18 1754			
<b>TOTAL DEPARTURE</b>		<b>TOTAL DEPARTURE</b>		<b>NUMBER OF -&gt; DAYS WITH</b>		<b>MAXIMUM TEMP &gt;= 90 :</b> 7		<b>MINIMUM TEMP &lt;= 32 :</b> 0		<b>PRECIPITATION &gt;= 0.01 INCH:</b> 9	
<b>HEATING :</b> 0 -1		0 -1		<b>THUNDERSTORMS :</b> 3		<b>MAXIMUM TEMP &lt;= 32 :</b> 0		<b>MINIMUM TEMP &lt;= 0 :</b> 0		<b>PRECIPITATION &gt;= 0.10 INCH:</b> 8	
<b>COOLING :</b> 361		-27				<b>THUNDERSTORMS :</b> 3		<b>HEAVY FOG :</b> 1		<b>SNOWFALL &gt;= 1.0 INCH :</b> 0	

AUGUST 2017  
RICHMOND, VA

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)  
AUGUST 2017

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	0.81	0.81	
08	0.32	0.18	0.01	0.24	0.05	0.04	T	T	0.03	0.01	0.01	08							T	0.20	0.34	0.10	0.07	0.05	08	0.84	0.84	
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
11													11												11	0.03	0.03	
12	T	0.01	T	T	T	0.02	0.16	0.11	T	T		12									T	0.03	T	12	0.30	0.30		
13	0.11	0.08			T	T						13												13	0.19	0.19		
14												14												14	0.00	0.00		
15								0.01	T			15	0.09			0.09	0.02			0.09	T	T		15	0.33	0.33		
16												16												16	0.00	0.00		
17												17	T	T										17	T	T		
18	T							T				18												18	2.15	2.15		
19	T	T										19												19	T	T		
20												20												20	0.00	0.00		
21												21												21	0.00	0.00		
22												22												22	0.00	0.00		
23												23		T	0.01	T	0.13							23	0.14	0.14		
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	T	0.11	0.05	0.10	0.13	0.22	0.17	0.06	0.03	0.08	0.10	0.03	29	0.05	0.02	T	T	T	T	T	T	T	29	1.15	1.15			
30													30											30	0.00	0.00		
31													31											31	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)	0.19	0.32	0.48	0.61	0.85	1.11	1.32	1.44	1.48	1.54	1.87	1.87
Ending Date	18	18	18	18	18	18	18	18	18	18	18	18
Ending Time (Hr/Min)	1948	1949	1947	1948	1956	2000	2009	2030	2037	2124	2137	2137

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	GL Glaze
VC In the Vicinity	UP Unkown Precipitation		

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

# RICHMOND, VA AUGUST 2017

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:

Date	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
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	2.50	10.00
09	10.00	10.00
10	9.00	10.00
11	10.00	10.00
12	2.50	10.00
13	7.00	10.00
14	8.00	10.00
15	4.00	10.00
16	0.75	10.00
17	1.25	10.00
18	1.50	10.00
19	9.00	10.00
20	7.00	10.00
21	0.25	10.00
22	7.00	10.00
23	10.00	10.00
24	10.00	10.00
25	10.00	10.00
26	9.00	10.00
27	10.00	10.00
28	10.00	10.00
29	1.00	10.00
30	10.00	10.00
31	9.00	10.00
<b>AVGS</b>	7.10	10.00
<b>MINIMUM VISIBILITY (MILES)</b>		
<= .25	<= 3.0	>= 7.0
1	8	22

# OBSERVATIONS AT 3-HOURLY INTERVALS

**RICHMOND, VA**  
AUGUST 2017 **KRIC**

**WBAN # 13740**

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		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						DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL				
<b>SUNRISE: 0513</b>					<b>AUG 01</b>					<b>SUNSET: 1918</b>					<b>SUNRISE: 0518</b>					<b>AUG 07</b>					<b>SUNSET: 1912</b>				
01	CLR	NC	10.00		68	61	64	78	6	17	29.91	30.10	01	OVC	120	10.00		72	63	66	73	10	16	29.92	30.10				
04	CLR	NC	10.00		64	61	62	90	3	17	29.90	30.09	04	OVC	015	10.00		72	67	69	84	7	16	29.86	30.05				
07	BKN	300	10.00		73	62	66	69	0	00	29.92	30.11	07	OVC	006	7.00		73	70	71	90	6	17	29.84	30.03				
10	FEW	300	10.00		85	61	70	45	3	VR	29.92	30.11	10	OVC	095	10.00		75	73	74	94	8	20	29.80	29.99				
13	SCT	300	10.00		89	61	71	39	6	VR	29.89	30.08	13	BKN	060	10.00		83	73	76	72	15	21	29.74	29.93				
16	BKN	300	10.00		88	60	70	39	8	14	29.85	30.04	16	BKN	170	10.00		86	69	74	57	16	24	29.69	29.87				
19	OVC	300	10.00		80	66	71	62	6	19	29.86	30.05	19	OVC	041	10.00		77	70	72	79	13	35	29.71	29.90				
22	BKN	300	10.00		75	65	69	71	6	20	29.89	30.08	22	OVC	031	2.50	+RA BR	72	72	72	100	9	36	29.73	29.92				
<b>SUNRISE: 0514</b>					<b>AUG 02</b>					<b>SUNSET: 1917</b>					<b>SUNRISE: 0519</b>					<b>AUG 08</b>					<b>SUNSET: 1911</b>				
01	OVC	220	10.00		72	63	66	73	5	17	29.89	30.07	01	OVC	055	2.50	RA BR	71	71	71	100	0	00	29.74	29.93				
04	BKN	210	10.00		70	63	66	79	3	16	29.88	30.07	04	OVC	050	2.50	+RA BR	69	69	69	100	7	01	29.72	29.91				
07	BKN	300	10.00		71	65	67	81	5	17	29.91	30.09	07	OVC	250	9.00		70	70	70	100	7	35	29.77	29.96				
10	BKN	300	10.00		81	65	71	58	7	21	29.92	30.11	10	OVC	070	10.00		71	67	68	87	9	35	29.83	30.02				
13	BKN	300	10.00		88	63	72	43	5	VR	29.89	30.08	13	OVC	250	10.00		76	65	69	69	10	01	29.87	30.06				
16	BKN	300	10.00		89	62	71	41	8	23	29.84	30.02	16	BKN	250	10.00		80	61	68	52	9	35	29.87	30.06				
19	BKN	300	10.00		83	63	70	51	8	18	29.85	30.04	19	SCT	250	10.00		74	64	68	71	3	03	29.90	30.09				
22	OVC	300	10.00		76	66	70	72	8	19	29.90	30.09	22	BKN	300	10.00		66	64	65	93	0	00	29.95	30.14				
<b>SUNRISE: 0515</b>					<b>AUG 03</b>					<b>SUNSET: 1916</b>					<b>SUNRISE: 0520</b>					<b>AUG 09</b>					<b>SUNSET: 1910</b>				
01	BKN	300	10.00		73	65	68	76	6	18	29.90	30.09	01	BKN	300	10.00		65	64	64	97	0	00	29.96	30.14				
04	SCT	300	10.00		71	66	68	84	3	19	29.89	30.07	04	SCT	300	10.00		64	63	63	96	3	35	29.98	30.17				
07	FEW	300	10.00		74	68	70	82	3	21	29.92	30.11	07	FEW	300	10.00		69	64	66	84	0	00	30.02	30.21				
10	SCT	300	10.00		86	66	73	51	7	18	29.94	30.13	10	FEW	300	10.00		79	61	68	54	9	05	30.04	30.22				
13	BKN	300	10.00		90	63	72	41	5	VR	29.90	30.09	13	SCT	300	10.00		83	57	67	41	6	03	30.02	30.21				
16	BKN	300	10.00		91	65	74	42	11	17	29.85	30.04	16	BKN	300	10.00		82	60	68	47	9	10	30.01	30.19				
19	BKN	250	10.00		85	66	72	53	11	18	29.86	30.05	19	BKN	300	10.00		76	61	67	60	7	10	30.02	30.21				
22	BKN	300	10.00		78	66	70	67	6	15	29.89	30.08	22	SCT	300	10.00		69	63	65	81	3	12	30.06	30.24				
<b>SUNRISE: 0516</b>					<b>AUG 04</b>					<b>SUNSET: 1915</b>					<b>SUNRISE: 0521</b>					<b>AUG 10</b>					<b>SUNSET: 1909</b>				
01	OVC	300	10.00		73	68	70	84	7	18	29.87	30.06	01	FEW	080	10.00		66	63	64	90	0	00	30.05	30.24				
04	BKN	300	10.00		71	68	69	90	5	16	29.85	30.04	04	CLR	NC	10.00		63	62	62	97	0	00	30.04	30.22				
07	SCT	300	10.00		71	69	70	94	0	00	29.86	30.05	07	FEW	070	10.00		68	65	66	90	5	35	30.07	30.26				
10	FEW	300	10.00		84	68	73	59	5	VR	29.85	30.03	10	FEW	300	10.00		79	56	65	45	5	06	30.07	30.26				
13	SCT	300	10.00		89	65	73	45	6	VR	29.80	29.98	13	SCT	300	10.00		81	58	67	45	3	22	30.04	30.23				
16	SCT	060	10.00		90	63	72	41	11	16	29.72	29.91	16	SCT	300	10.00		83	60	68	46	7	VR	30.00	30.19				
19	FEW	250	10.00		83	68	73	61	9	18	29.71	29.90	19	SCT	300	10.00		78	60	67	54	8	14	29.98	30.17				
22	FEW	250	10.00		79	70	73	74	10	18	29.72	29.90	22	FEW	300	10.00		69	62	65	78	8	14	30.00	30.19				
<b>SUNRISE: 0516</b>					<b>AUG 05</b>					<b>SUNSET: 1914</b>					<b>SUNRISE: 0522</b>					<b>AUG 11</b>					<b>SUNSET: 1908</b>				
01	OVC	300	10.00		78	69	72	74	8	20	29.70	29.88	01	FEW	300	10.00		67	63	65	87	3	14	29.99	30.17				
04	OVC	300	10.00		78	69	72	74	8	25	29.69	29.87	04	BKN	075	10.00		65	63	64	93	5	12	29.96	30.15				
07	BKN	300	10.00		77	65	69	66	7	30	29.76	29.94	07	BKN	075	10.00		71	68	69	90	6	18	29.97	30.16				
10	BKN	300	10.00		83	66	72	57	6	29	29.80	29.99	10	BKN	014	10.00		79	72	74	79	9	17	29.96	30.15				
13	SCT	044	10.00		86	64	72	48	11	01	29.79	29.97	13	BKN	250	10.00		83	71	75	67	10	16	29.91	30.10				
16	FEW	065	10.00		86	54	66	33	9	29	29.79	29.97	16	BKN	300	10.00		82	71	74	69	13	15	29.84	30.03				
19	FEW	300	10.00		79	53	64	41	9	35	29.84	30.03	19	OVC	300	10.00		79	73	75	82	8	14	29.82	30.01				
22	CLR	NC	10.00		70	56	62	61	3	08	29.89	30.08	22	OVC	150	10.00		76	74	75	94	5	18	29.81	30.00				
<b>SUNRISE: 0517</b>					<b>AUG 06</b>					<b>SUNSET: 1913</b>					<b>SUNRISE: 0522</b>					<b>AUG 12</b>					<b>SUNSET: 1907</b>				
01	FEW	300	10.00		64	57	60	78	0	00	29.91	30.10	01	SCT	080	10.00		76	75	75	97	9	21	29.79	29.98				
04	FEW	300	10.00		61	57	59	87	0	00	29.91	30.10	04	OVC	120	10.00		75	75	75	100	6	21	29.77	29.96				
07	BKN	300	10.00		68	61	64	78	0	00	29.94	30.13	07	OVC	110	2.50	RA BR	74	73	73	97	7	22	29.79	29.98				
10	SCT	300	10.00		79	55	65	44	7	VR	29.96	30.15	10	BKN	250	10.00		76	74	75	94	8	16	29.77	29.96				
13	SCT	300	10.00		86	56	67	36	7	VR	29.93	30.12	13	BKN	250	10.00		83	73	76	72	7	21	29.74	29.92				
16	SCT	065	10.00		84	58	68	41	5	16	29.90	30.09	16	BKN	250	10.00		85	72	76	65	3	18	29.69	29.87				
19	BKN	300	10.00		79	62	68	56	11	12	29.89	30.08	19	SCT	150	10.00		80	75	77	85	7	16	29.69	29.88				
22	FEW	300	10.00		72	62	66	71	8	12	29.93	30.12	22	FEW	030	10.00		75	75	75	100	5	18	29.71	29.90				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# RICHMOND, VA

## AUGUST 2017

## KRIC

## WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		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						DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL				
<b>SUNRISE: 0523</b>					<b>AUG 13</b>					<b>SUNSET: 1906</b>					<b>SUNRISE: 0528</b>					<b>AUG 19</b>					<b>SUNSET: 1857</b>				
01	OVC	048	7.00	-RA	72	71	71	97	13	04	29.73	29.92	01	OVC	090	10.00	-RA	74	74	74	100	6	22	29.69	29.88				
04	BKN	200	7.00		71	70	70	96	8	33	29.74	29.93	04	BKN	160	10.00		75	74	74	96	5	33	29.67	29.85				
07	OVC	200	10.00		72	68	69	87	8	36	29.78	29.97	07	BKN	075	10.00		77	76	76	96	0	00	29.72	29.91				
10	OVC	200	10.00		78	65	70	64	13	03	29.83	30.02	10	SCT	100	10.00		84	69	74	61	9	01	29.76	29.94				
13	BKN	200	10.00		79	64	69	60	3	VR	29.83	30.01	13	SCT	043	10.00		86	68	74	55	5	07	29.76	29.95				
16	SCT	250	10.00		81	66	71	61	6	11	29.82	30.01	16	SCT	300	10.00		87	67	74	51	0	00	29.73	29.91				
19	BKN	300	10.00		76	67	70	74	6	11	29.83	30.02	19	FEW	300	10.00		80	73	75	79	5	16	29.74	29.92				
22	FEW	250	10.00		71	68	69	90	0	00	29.85	30.04	22	CLR	NC	10.00		75	71	72	88	0	00	29.78	29.97				
<b>SUNRISE: 0524</b>					<b>AUG 14</b>					<b>SUNSET: 1904</b>					<b>SUNRISE: 0529</b>					<b>AUG 20</b>					<b>SUNSET: 1855</b>				
01	BKN	300	10.00		70	68	69	93	0	00	29.83	30.02	01	CLR	NC	10.00		74	72	73	94	3	19	29.80	29.99				
04	BKN	220	10.00		68	66	67	93	0	00	29.82	30.01	04	CLR	NC	9.00		72	71	71	97	3	34	29.83	30.02				
07	OVC	190	10.00		70	67	68	90	6	04	29.84	30.03	07	FEW	300	10.00		74	70	71	88	6	02	29.90	30.09				
10	BKN	190	10.00		78	70	73	76	7	13	29.83	30.02	10	CLR	NC	10.00		82	68	73	63	7	VR	29.94	30.12				
13	OVC	060	10.00		81	70	74	69	5	12	29.81	30.00	13	FEW	250	10.00		87	68	74	53	5	VR	29.94	30.13				
16	OVC	150	10.00		82	71	74	69	7	08	29.76	29.94	16	FEW	300	10.00		88	69	75	54	5	04	29.91	30.10				
19	OVC	150	10.00		79	72	74	79	8	10	29.75	29.94	19	FEW	300	10.00		81	71	74	72	7	11	29.94	30.13				
22	OVC	160	10.00		75	73	74	94	6	14	29.77	29.96	22	SCT	300	10.00		74	70	71	88	5	13	30.00	30.19				
<b>SUNRISE: 0525</b>					<b>AUG 15</b>					<b>SUNSET: 1903</b>					<b>SUNRISE: 0530</b>					<b>AUG 21</b>					<b>SUNSET: 1854</b>				
01	OVC	008	9.00		75	74	74	96	6	14	29.73	29.92	01	FEW	300	10.00		73	71	72	94	3	15	30.00	30.19				
04	OVC	008	7.00		75	74	74	96	0	00	29.71	29.90	04	FEW	009	9.00		72	72	72	100	0	00	30.00	30.19				
07	OVC	009	5.00	BR	75	74	74	96	5	15	29.74	29.93	07	VV	002	0.25	FG	74	74	74	100	5	19	30.03	30.22				
10	OVC	009	10.00		79	75	76	88	3	19	29.72	29.91	10	FEW	250	7.00		83	75	77	77	7	20	30.03	30.22				
13	BKN	110	10.00		80	77	78	90	3	36	29.70	29.89	13	SCT	035	10.00		88	74	78	63	9	18	30.00	30.18				
16	SCT	070	10.00		80	76	77	87	5	35	29.67	29.86	16	BKN	250	10.00		87	74	78	65	14	18	29.96	30.14				
19	BKN	080	10.00		75	74	74	96	5	10	29.71	29.90	19	BKN	250	10.00		81	74	76	79	5	18	29.96	30.14				
22	BKN	150	10.00		74	74	74	100	5	02	29.74	29.93	22	SCT	250	10.00		76	73	74	91	8	19	29.97	30.15				
<b>SUNRISE: 0526</b>					<b>AUG 16</b>					<b>SUNSET: 1902</b>					<b>SUNRISE: 0531</b>					<b>AUG 22</b>					<b>SUNSET: 1853</b>				
01	BKN	006	1.25	BR	74	74	74	100	5	34	29.75	29.93	01	CLR	NC	10.00		75	73	74	94	3	20	29.94	30.12				
04	VV	002	0.75	BR	73	73	73	100	7	34	29.77	29.96	04	CLR	NC	9.00		73	72	72	96	0	00	29.91	30.09				
07	OVC	003	1.50	BR	74	74	74	100	6	36	29.82	30.01	07	FEW	300	10.00		75	74	74	96	6	20	29.91	30.10				
10	SCT	250	10.00		81	74	76	79	6	32	29.85	30.04	10	FEW	300	10.00		85	75	78	72	10	20	29.88	30.06				
13	SCT	250	10.00		88	70	76	55	3	VR	29.83	30.02	13	SCT	300	10.00		90	73	78	58	11	19	29.83	30.01				
16	FEW	250	10.00		87	67	74	51	5	17	29.80	29.98	16	FEW	300	10.00		89	72	77	57	15	18	29.73	29.92				
19	BKN	250	10.00		82	72	75	72	5	14	29.81	30.00	19	FEW	300	10.00		83	73	76	72	9	18	29.72	29.90				
22	FEW	250	9.00		77	73	74	88	0	00	29.85	30.04	22	FEW	300	10.00		79	73	75	82	8	20	29.70	29.89				
<b>SUNRISE: 0527</b>					<b>AUG 17</b>					<b>SUNSET: 1859</b>					<b>SUNRISE: 0532</b>					<b>AUG 23</b>					<b>SUNSET: 1851</b>				
01	FEW	120	9.00		74	71	72	91	3	18	29.84	30.03	01	FEW	120	10.00		79	74	76	85	9	22	29.66	29.85				
04	CLR	NC	10.00		73	73	73	100	3	17	29.83	30.01	04	CLR	NC	10.00		76	72	73	88	8	22	29.65	29.83				
07	BKN	300	2.00	BR	74	74	74	100	0	00	29.86	30.05	07	SCT	300	10.00		78	72	74	82	6	24	29.67	29.85				
10	FEW	110	10.00		84	75	78	74	9	16	29.86	30.04	10	SCT	300	10.00		85	74	77	70	8	01	29.69	29.88				
13	OVC	060	10.00	-RA	79	73	75	82	15	20	29.84	30.03	13	BKN	100	10.00		83	70	74	65	11	04	29.68	29.87				
16	FEW	300	10.00		85	75	78	72	11	15	29.77	29.95	16	OVC	090	10.00	-RA	74	70	71	88	8	03	29.68	29.87				
19	FEW	300	10.00		82	75	77	79	7	16	29.77	29.96	19	SCT	300	10.00		72	70	71	94	0	00	29.69	29.88				
22	SCT	300	10.00		78	74	75	87	6	15	29.76	29.95	22	FEW	090	10.00		69	68	68	96	5	34	29.72	29.91				
<b>SUNRISE: 0527</b>					<b>AUG 18</b>					<b>SUNSET: 1858</b>					<b>SUNRISE: 0533</b>					<b>AUG 24</b>					<b>SUNSET: 1850</b>				
01	SCT	300	8.00		76	75	75	97	6	17	29.74	29.93	01	SCT	060	10.00		68	66	67	93	5	34	29.71	29.90				
04	FEW	300	10.00		75	74	74	96	6	16	29.71	29.90	04	OVC	060	10.00		68	66	67	93	3	02	29.73	29.91				
07	OVC	008	7.00		76	75	75	97	8	21	29.74	29.93	07	OVC	110	10.00		69	66	67	90	6	02	29.76	29.95				
10	BKN	013	10.00		82	76	78	82	6	21	29.73	29.91	10	BKN	100	10.00		76	63	68	64	13	02	29.79	29.98				
13	FEW	250	10.00		89	78	81	70	9	16	29.67	29.85	13	BKN	110	10.00		80	62	69	54	9	01	29.79	29.98				
16	SCT	040	10.00		91	77	81	64	17	19	29.62	29.80	16	BKN	250	10.00		79	61	68	54	7	03	29.78	29.97				
19	BKN	250	10.00	TS	88	76	79	68	24	31	29.66	29.85	19	SCT	095	10.00		74	62	67	67	5	04	29.77	29.96				
22	OVC	090	10.00	-TSRA	74	74	74	100	7	17	29.70	29.89	22	FEW	060	10.00		68	64	66	87	0	00	29.81	30.00				

# OBSERVATIONS AT 3-HOURLY INTERVALS

**RICHMOND, VA**

**AUGUST 2017**

**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: 0533</b>					<b>AUG 25</b>					<b>SUNSET: 1849</b>				
01	FEW	200	10.00		66	64	65	93	0	00	29.82	30.01		
04	SCT	049	10.00		65	62	63	90	7	36	29.85	30.04		
07	BKN	300	10.00		66	63	64	90	5	05	29.92	30.11		
10	BKN	300	10.00		76	65	69	69	7	35	29.94	30.13		
13	SCT	300	10.00		80	62	69	54	8	36	29.94	30.12		
16	BKN	300	10.00		80	63	69	56	7	03	29.93	30.12		
19	BKN	300	10.00		73	64	67	74	7	03	29.96	30.15		
22	SCT	300	10.00		67	64	65	91	6	02	30.00	30.19		
<b>SUNRISE: 0534</b>					<b>AUG 26</b>					<b>SUNSET: 1847</b>				
01	SCT	300	10.00		65	62	63	90	5	05	30.00	30.19		
04	BKN	110	10.00		64	61	62	90	7	36	30.00	30.19		
07	SCT	300	10.00		66	63	64	90	8	01	30.04	30.23		
10	SCT	025	10.00		78	67	71	69	7	VR	30.04	30.23		
13	SCT	043	10.00		79	62	68	56	9	10	30.01	30.20		
16	BKN	085	10.00		77	64	69	64	11	10	29.99	30.18		
19	SCT	300	10.00		72	62	66	71	6	08	30.00	30.19		
22	FEW	300	10.00		66	61	63	84	6	06	30.02	30.21		
<b>SUNRISE: 0535</b>					<b>AUG 27</b>					<b>SUNSET: 1846</b>				
01	CLR	NC	10.00		63	61	62	93	5	01	30.02	30.21		
04	FEW	300	10.00		63	61	62	93	8	03	30.00	30.19		
07	SCT	300	10.00		65	62	63	90	6	03	30.03	30.22		
10	BKN	300	10.00		76	57	65	52	11	08	30.04	30.23		
13	BKN	300	10.00		78	53	63	42	14	06	30.01	30.20		
16	SCT	300	10.00		79	53	64	41	9	06	29.98	30.17		
19	FEW	300	10.00		70	54	61	57	5	05	29.97	30.16		
22	CLR	NC	10.00		62	56	59	80	7	04	30.01	30.20		
<b>SUNRISE: 0536</b>					<b>AUG 28</b>					<b>SUNSET: 1844</b>				
01	CLR	NC	10.00		61	57	59	87	7	03	29.99	30.18		
04	BKN	055	10.00		61	57	59	87	8	36	29.98	30.17		
07	BKN	300	10.00		64	59	61	84	10	36	30.01	30.20		
10	OVC	300	10.00		73	61	66	66	13	05	30.01	30.20		
13	OVC	300	10.00		78	58	66	50	16	05	29.97	30.16		
16	OVC	150	10.00		74	63	67	69	18	09	29.95	30.14		
19	OVC	150	10.00		71	60	64	68	11	06	29.95	30.14		
22	OVC	085	10.00		69	60	64	73	10	06	29.95	30.14		
<b>SUNRISE: 0537</b>					<b>AUG 29</b>					<b>SUNSET: 1843</b>				
01	OVC	060	9.00	-RA	67	62	64	84	11	03	29.90	30.09		
04	OVC	048	6.00	RA BR	64	63	63	96	16	03	29.85	30.03		
07	OVC	007	4.00	RA BR	65	65	65	100	15	01	29.83	30.02		
10	OVC	015	1.00	RA BR	68	67	67	96	16	02	29.82	30.01		
13	OVC	060	2.00	-RA BR	68	66	67	93	17	03	29.79	29.98		
16	OVC	090	10.00	-DZ	68	65	66	90	15	05	29.75	29.94		
19	OVC	015	7.00	-RA	67	66	66	97	14	34	29.76	29.94		
22	OVC	021	10.00		66	64	65	93	13	35	29.80	29.99		
<b>SUNRISE: 0538</b>					<b>AUG 30</b>					<b>SUNSET: 1842</b>				
01	OVC	012	10.00		64	63	63	96	9	33	29.80	29.99		
04	OVC	012	10.00		64	62	63	93	8	33	29.82	30.01		
07	BKN	300	10.00		64	61	62	90	5	33	29.87	30.06		
10	BKN	300	10.00		71	61	65	71	7	31	29.88	30.07		
13	BKN	300	10.00		77	62	68	60	3	VR	29.86	30.05		
16	BKN	300	10.00		80	61	68	52	6	23	29.82	30.01		
19	OVC	300	10.00		72	66	68	82	6	15	29.83	30.02		
22	BKN	130	10.00		69	66	67	90	3	19	29.85	30.04		

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: 0538</b>					<b>AUG 31</b>					<b>SUNSET: 1840</b>				
01	BKN	090	10.00		69	67	68	93	3	18	29.83	30.02		
04	BKN	040	10.00		69	67	68	93	0	00	29.82	30.01		
07	SCT	300	10.00		70	68	69	93	0	00	29.84	30.03		
10	BKN	300	10.00		80	68	72	67	3	VR	29.84	30.03		
13	SCT	300	10.00		85	64	71	50	6	25	29.79	29.98		
16	BKN	300	10.00		86	60	69	42	10	29	29.76	29.94		
19	SCT	300	10.00		77	67	70	71	3	05	29.77	29.96		
22	OVC	230	10.00		74	69	71	85	0	00	29.80	29.98		

## 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

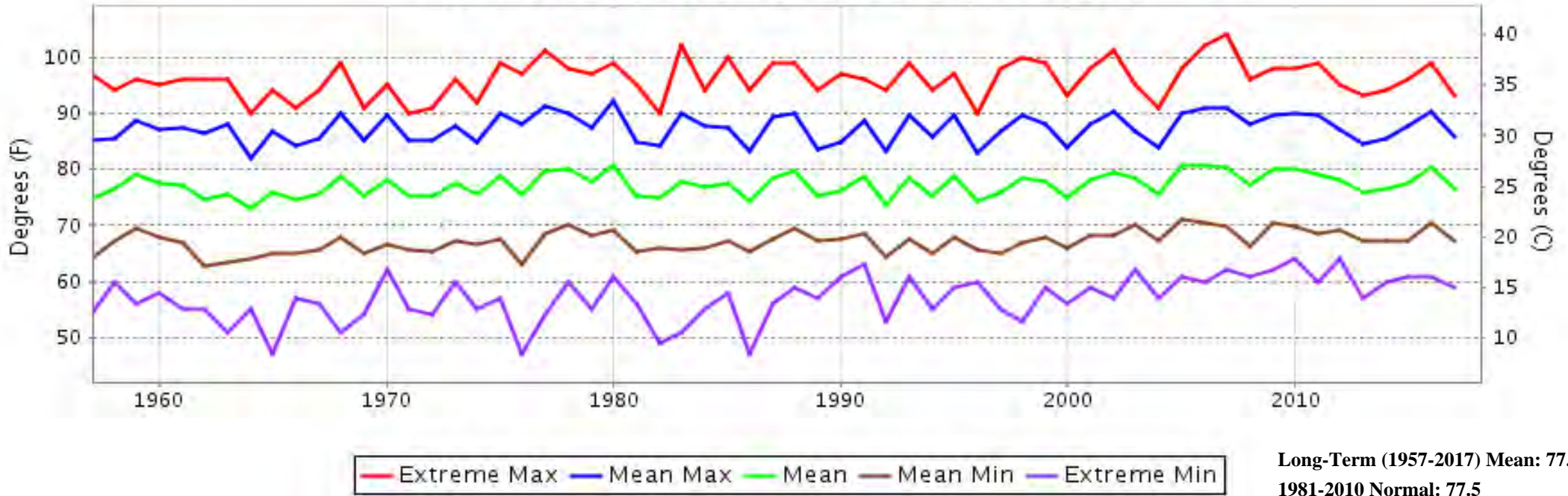
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

& = Original observation contained additional weather elements. See page 3 for additional notes.

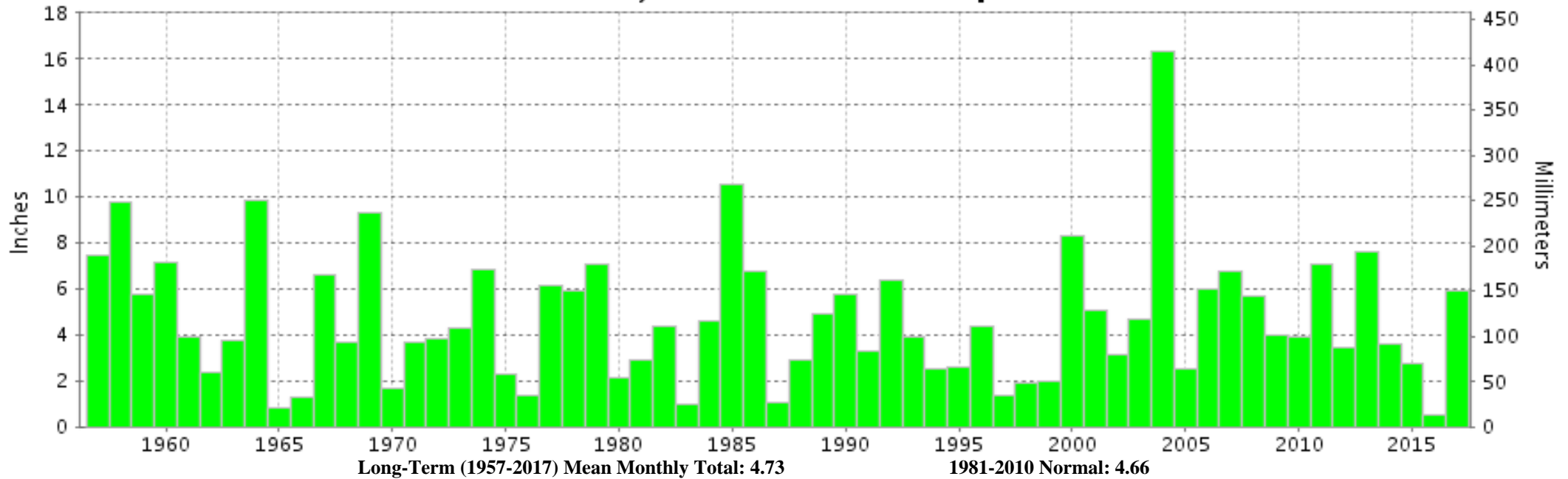
## SUMMARY BY HOUR

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	70	67	68	90	29.85	30.04	9.22	5	2	17
02	70	67	68	91	29.85	30.03	9.13	4	2	18
03	69	67	68	92	29.84	30.03	9.19	4	2	18
04	69	67	68	92	29.84	30.03	9.04	5	2	19
05	69	67	67	93	29.85	30.04	8.52	5	1	19
06	69	67	67	93	29.86	30.05	8.22	5	2	19
07	71	68	69	90	29.87	30.06	8.33	5	2	19
08	74	68	70	83	29.88	30.07	8.72	6	1	17
09	77	68	71	76	29.88	30.07	9.35	7	2	14
10	79	67	72	69	29.88	30.07	9.61	8	2	14
11	81	67	72	64	29.88	30.06	9.48	8	2	13
12	82	67	72	61	29.87	30.05	9.55	8	2	14
13	83	66	72	58	29.86	30.04	9.74	8	3	13
14	83	65	72	56	29.84	30.03	9.81	8	2	13
15	84	65	72	56	29.83	30.01	10.00	9	2	13
16	83	65	72	57	29.82	30.01	10.00	9	2	12
17	82	66	72	59	29.82	30.00	10.00	9	2	12
18	81	66	71	63	29.82	30.01	10.00	9	3	11
19	78	67	71	71	29.83	30.02	9.90	8	2	12
20	75	67	70	78	29.84	30.03	9.63	6	3	12
21	74	67	69	81	29.85	30.04	9.72	5	3	12
22	72	67	69	85	29.86	30.05	9.73	5	2	13
23	72	67	69	86	29.86	30.05	9.55	5	2	15
24	71	67	69	88	29.85	30.04	9.48	5	2	17

## RICHMOND, VA AUGUST Temperatures



## RICHMOND, VA AUGUST Precipitation





AUGUST 2017  
RICHMOND, VA

## LOCAL CLIMATOLOGICAL DATA

### NOAA, National Centers for Environmental Information

*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 Centers for Environmental Information (NCEI), Asheville, North Carolina 28801.*

A handwritten signature in black ink that reads "Mary A. Wohlgemuth".

**DIRECTOR**

NCEI 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.

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