



JULY 2016 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



**JULY 2016
RICHMOND, VA**

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	84	66	75	-2	69	71	0	10			0.0	0.03	29.77	29.96	2.5	17	4.7	15	28	14	28	01		
02	83	68	76	-1	64	68	0	11			0.0	0.00	29.86	30.06	4.7	04	6.2	21	02	15	03	02		
03	71	63*	67*	-10	63	64	0	2			0.0	0.33	29.93	30.12	5.0	04	5.7	18	01	15	01	03		
04	76	65	71	-6	69	69	0	6			0.0	0.13	29.88	30.05	5.0	17	5.6	18	17	14	17	04		
05	90	73	82	5	72	75	0	17			0.0	0.06	29.70	29.89	9.0	24	9.7	23	25	17	26	05		
06	91	73	82	5	73	75	0	17			0.0	0.45	29.72	29.90	0.2	23	4.2	25	07	20	08	06		
07	93	72	83	6	72	75	0	18			0.0	0.11	29.66	29.84	5.0	25	6.8	25	25	20	24	07		
08	92	73	83	6	71	75	0	18			0.0	T	29.65	29.83	6.9	25	8.0	23	28	17	27	08		
09	91	72	82	5	66	71	0	17			0.0	0.00	29.65	29.84	7.8	26	8.6	23	26	20	26	09		
10	87	67	77	-1	64	69	0	12			0.0	0.00	29.77	29.97	3.3	32	4.6	18	28	14	26	10		
11	87	70	79	1	67	70	0	14			0.0	0.00	29.88	30.08	3.8	06	4.6	13	04	10	04	11		
12	87	69	78	0	70	73	0	13			0.0	T	29.90	30.08	6.6	14	7.1	22	08	18	13	12		
13	91	72	82	4	70	74	0	17			0.0	T	29.84	30.02	3.9	23	5.6	18	25	15	26	13		
14	96	71	84	6	70	74	0	19			0.0	0.00	29.78	29.96	7.8	23	8.3	22	23	17	23	14		
15	93	72	83	5	70	74	0	18			0.0	0.00	29.77	29.97	1.8	26	7.5	24	20	18	21	15		
16	87	69	78	0	71	72	0	13			0.0	0.38	29.86	30.06	5.1	19	6.8	37	34	32	35	16		
17	88	68	78	0	69	72	0	13			0.0	0.00	29.96	30.16	3.5	20	6.5	16	19	13	18	17		
18	93	72	83	4	72	75	0	18			0.0	0.89	29.96	30.14	5.7	22	8.5	29	36	23	35	18		
19	89	68	79	0	69	71	0	14			0.0	0.91	29.95	30.14	0.5	29	4.1	58*	30	40*	31	19		
20	88	66	77	-2	67	70	0	12			0.0	0.00	29.98	30.17	3.6	03	4.7	17	03	12	02	20		
21	87	67	77	-2	67	71	0	12			0.0	0.00	29.97	30.15	1.8	15	3.2	14	11	10	14	21		
22	93	71	82	3	71	74	0	17			0.0	0.00	29.85	30.01	6.2	22	6.6	20	20	15	20	22		
23	93	73	83	4	73	77	0	18			0.0	0.00	29.76	29.95	5.1	20	6.0	17	22	15	22	23		
24	96	76	86*	8	75	78	0	21			0.0	0.00	29.79	29.97	4.6	21	5.8	14	19	10	21	24		
25	96*	74	85	7	74	77	0	20			0.0	0.00	29.78	29.96	8.3	21	8.5	23	22	18	20	25		
26	95	74	85	7	74	77	0	20			0.0	0.47	29.77	29.95	1.9	26	5.3	23	24	18	24	26		
27	92	72	82	4	74	76	0	17			0.0	T	29.76	29.94	0.6	31	3.2	15	21	13	21	27		
28	93	74	84	6	74	77	0	19			0.0	0.53	29.69	29.86	4.0	19	6.2	41	27	30	28	28		
29	87	74	81	3	72	74	0	16			0.0	T	29.69	29.89	4.9	32	6.4	21	35	15	32	29		
30	84	73	79	1	73	74	0	14			0.0	0.12	29.78	29.97	4.8	15	6.1	30	19	23	20	30		
31	89	71	80	2	72	74	0	15			0.0	0.06	29.81	30.00	2.5	17	4.6	26	18	21	17	31		
89.1		70.6	79.8	☼	70.2	73.1	0.0	15.1	< MONTHLY AVERAGES TOTALS >			0.0	4.47	29.81	30.00	2.3	22	6.1	< MONTHLY AVERAGES					
-0.6		1.7	0.5		-----DEPARTURE FROM NORMAL -----						-0.04	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3												
DEGREE DAYS									GREATEST 24-HR PRECIPITATION : 1.80 DATE : 18-19				SEA LEVEL PRESSURE				DATE		TIME					
MONTHLY									GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM :				30.21		21		0816			
TOTAL DEPARTURE									GREATEST SNOW DEPTH : 0 DATE :				MINIMUM :				29.78		28		2054			
SEASON TO DATE									NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 16		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH : 13							
HEATING : 0 0 0 0									MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH : 10											
COOLING : 468 25 872 -47									THUNDERSTORMS : 11		HEAVY FOG : 0		SNOWFALL >= 1.0 INCH : 0											

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
JULY 2016

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						0.01	T				0.01	T	T	01	0.01			T							01	0.03	0.03	
02														02											T	02	0.00	0.00
03		0.06	0.01				0.01	0.12	0.09				T	03	T	0.02		T	T	T	T				03	0.33	0.33	
04					T	T	0.01	0.02	0.02	0.01			T	04	0.03	0.04	T								04	0.13	0.13	
05	0.01	0.05												05											05	0.06	0.06	
06														06				T	0.09	0.36					06	0.45	0.45	
07														07							T	0.09	0.01	0.01	T	07	0.11	0.11
08		T												08											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	12	T	T	
13	T													13											13	T	T	
14														14											14	0.00	0.00	
15														15											15	0.00	0.00	
16											0.01			16	T						0.27	0.10	T	T	16	0.38	0.38	
17														17											17	0.00	0.00	
18														18										0.51	0.38	18	0.89	0.89
19														19			0.04	0.87	T						19	0.91	0.91	
20														20											20	0.00	0.00	
21														21											21	0.00	0.00	
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		T	T	T		0.35	0.03		T	0.07	0.02	26	0.47	0.47
27	T													27					T	T					27	T	T	
28														28								0.51	0.02		28	0.53	0.53	
29								T						29											29	T	T	
30												T	0.09	30	0.03										30	0.12	0.12	
31														31							0.03	0.02	0.01		31	0.06	0.06	

* 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)	0.27	0.43	0.47	0.57	0.80	0.87	0.90	0.91	0.91	0.91	0.91	0.91
Ending Date	28	28	19	19	19	19	19	19	19	19	19	19
Ending Time (Hr/Min)	2126	2130	1632	1642	1642	1642	1642	1642	1642	1642	1642	1642

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 JULY 2016

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	3.00	10.00
02	7.00	10.00
03	1.25	10.00
04	2.00	7.00
05	1.50	10.00
06	3.00	10.00
07	4.00	10.00
08	7.00	10.00
09	10.00	10.00
10	10.00	10.00
11	10.00	10.00
12	10.00	10.00
13	5.00	10.00
14	9.00	10.00
15	10.00	10.00
16	2.00	10.00
17	8.00	10.00
18	1.50	10.00
19	0.75	10.00
20	10.00	10.00
21	6.00	10.00
22	9.00	10.00
23	5.00	10.00
24	6.00	10.00
25	10.00	10.00
26	3.00	10.00
27	9.00	10.00
28	6.00	10.00
29	10.00	10.00
30	1.75	10.00
31	2.00	10.00
AVGS	5.90	9.90
MINIMUM VISIBILITY (MILES)		
<= .25	<= 3.0	>= 7.0
0	11	14

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA JULY 2016 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
SUNRISE: 0452 JUL 01					SUNSET: 1934					SUNRISE: 0455 JUL 07					SUNSET: 1933										
01	FEW	300	10.00		69	67	68	93	0	00	29.81	30.00	01	SCT	160	10.00		73	72	72	96	3	21	29.69	29.87
04	OVC	300	8.00		69	67	68	93	0	00	29.79	29.98	04	SCT	250	4.00	BR	73	72	72	96	3	17	29.64	29.83
07	BKN	120	4.00		70	69	69	97	7	15	29.80	29.99	07	FEW	250	8.00		78	74	75	87	8	25	29.69	29.88
10	BKN	100	5.00		77	72	74	85	6	20	29.80	29.99	10	BKN	250	10.00		87	73	77	63	7	29	29.68	29.87
13	BKN	120	9.00		78	72	74	82	3	28	29.76	29.95	13	SCT	250	10.00		91	69	76	49	9	27	29.65	29.83
16	SCT	300	10.00		83	70	74	65	10	15	29.72	29.91	16	BKN	300	10.00		93	69	76	46	10	28	29.62	29.80
19	SCT	300	10.00		80	72	75	76	3	17	29.72	29.91	19	BKN	200	10.00		86	71	76	61	13	28	29.63	29.81
22	BKN	120	10.00		73	68	70	84	5	10	29.78	29.97	22	OVC	150	10.00		74	72	73	94	0	00	29.66	29.85
SUNRISE: 0452 JUL 02					SUNSET: 1934					SUNRISE: 0455 JUL 08					SUNSET: 1933										
01	FEW	300	10.00		70	68	69	93	3	21	29.78	29.97	01	OVC	140	10.00		74	73	73	97	7	21	29.66	29.85
04	OVC	005	7.00		69	68	68	96	0	00	29.80	29.99	04	BKN	200	10.00		74	72	73	94	6	28	29.64	29.83
07	FEW	300	10.00		73	65	68	76	7	03	29.88	30.07	07	BKN	250	10.00		77	71	73	82	5	27	29.67	29.86
10	FEW	300	10.00		78	61	67	56	10	35	29.90	30.09	10	SCT	250	10.00		85	69	74	59	3	VR	29.67	29.86
13	FEW	300	10.00		81	62	69	53	5	05	29.89	30.08	13	BKN	250	10.00		90	69	76	50	14	26	29.65	29.84
16	BKN	300	10.00		80	63	69	56	7	05	29.88	30.07	16	BKN	300	10.00		91	71	77	52	13	24	29.61	29.79
19	OVC	300	10.00		76	63	68	64	6	08	29.90	30.09	19	BKN	300	10.00		89	68	75	50	9	29	29.63	29.81
22	OVC	140	10.00		72	62	66	71	6	09	29.91	30.10	22	OVC	250	10.00		83	73	76	72	7	24	29.62	29.81
SUNRISE: 0453 JUL 03					SUNSET: 1934					SUNRISE: 0456 JUL 09					SUNSET: 1933										
01	OVC	055	10.00		71	62	65	73	7	07	29.90	30.09	01	BKN	200	10.00		76	65	69	69	8	27	29.63	29.81
04	OVC	060	10.00		64	62	63	93	10	04	29.90	30.09	04	BKN	200	10.00		75	65	69	71	8	27	29.62	29.81
07	OVC	030	10.00	-RA	64	62	63	93	10	05	29.94	30.13	07	BKN	250	10.00		76	66	70	72	10	29	29.66	29.85
10	OVC	033	10.00		65	63	64	93	8	07	29.95	30.14	10	BKN	250	10.00		84	67	73	57	3	VR	29.67	29.86
13	OVC	012	6.00	BR	65	64	64	97	5	08	29.95	30.14	13	BKN	250	10.00		86	70	75	59	10	22	29.66	29.84
16	OVC	007	9.00		67	64	65	91	6	03	29.94	30.13	16	BKN	300	10.00		91	64	73	41	14	26	29.63	29.82
19	OVC	013	1.75	-DZ BR	66	65	65	96	3	07	29.95	30.14	19	BKN	300	10.00		87	63	71	45	10	27	29.65	29.83
22	OVC	180	5.00	BR	65	65	65	100	0	00	29.93	30.12	22	SCT	300	10.00		82	63	70	53	8	27	29.68	29.86
SUNRISE: 0453 JUL 04					SUNSET: 1934					SUNRISE: 0457 JUL 10					SUNSET: 1933										
01	OVC	015	3.00	BR	66	65	65	96	5	08	29.92	30.11	01	FEW	300	10.00		76	62	67	62	8	32	29.70	29.88
04	OVC	007	2.00	BR	66	65	65	96	0	00	29.93	30.12	04	SCT	300	10.00		68	64	66	87	5	23	29.72	29.91
07	OVC	010	5.00	BR	66	65	65	96	0	00	29.93	30.12	07	BKN	300	10.00		73	64	67	74	3	32	29.78	29.96
10	OVC	095	2.00	-RA BR	68	67	67	96	9	13	29.92	30.11	10	BKN	300	10.00		80	65	70	60	5	VR	29.80	29.98
13	OVC	010	3.00	-RA BR	71	69	70	94	8	18	29.89	30.08	13	BKN	300	10.00		83	63	70	51	3	06	29.80	29.99
16	OVC	013	7.00		75	71	72	88	8	18	29.83	30.01	16	BKN	250	10.00		86	61	70	43	9	30	29.77	29.96
19	OVC	021	7.00		74	72	73	94	8	18	29.80	29.99	19	SCT	250	10.00		82	65	71	56	6	36	29.79	29.98
22	BKN	130	3.00	BR	73	73	73	100	8	20	29.77	29.96	22	FEW	070	10.00		72	67	69	84	0	00	29.84	30.03
SUNRISE: 0454 JUL 05					SUNSET: 1934					SUNRISE: 0457 JUL 11					SUNSET: 1932										
01	OVC	012	1.50	-TSRA BR	74	73	73	97	7	25	29.73	29.92	01	BKN	065	10.00		73	68	70	84	0	00	29.86	30.05
04	BKN	250	7.00		73	71	72	94	9	24	29.69	29.88	04	FEW	090	10.00		71	67	68	87	0	00	29.86	30.05
07	BKN	250	10.00		76	72	73	88	11	25	29.72	29.91	07	SCT	300	10.00		73	64	67	74	8	03	29.90	30.09
10	BKN	250	10.00		82	72	75	72	14	25	29.71	29.90	10	BKN	250	10.00		81	67	72	62	7	03	29.92	30.11
13	OVC	250	10.00		89	72	77	57	8	25	29.70	29.89	13	BKN	250	10.00		85	66	72	53	7	09	29.90	30.09
16	OVC	300	10.00		89	71	76	55	15	26	29.68	29.87	16	BKN	250	10.00		86	66	73	51	6	02	29.87	30.06
19	BKN	300	10.00		87	72	77	61	7	25	29.67	29.86	19	BKN	250	10.00		80	67	71	64	5	09	29.88	30.07
22	OVC	300	10.00		80	75	77	85	5	21	29.72	29.90	22	BKN	300	10.00		73	67	69	81	5	10	29.91	30.10
SUNRISE: 0454 JUL 06					SUNSET: 1934					SUNRISE: 0458 JUL 12					SUNSET: 1932										
01	BKN	300	10.00		76	74	75	94	0	00	29.71	29.89	01	SCT	300	10.00		71	67	68	87	5	14	29.90	30.09
04	BKN	300	10.00		75	73	74	94	0	00	29.71	29.89	04	FEW	300	10.00		69	68	68	96	3	11	29.88	30.07
07	FEW	220	10.00		79	74	76	85	5	30	29.74	29.93	07	OVC	300	10.00		72	69	70	91	3	05	29.93	30.12
10	BKN	110	10.00		87	74	78	65	5	30	29.75	29.94	10	BKN	250	10.00		81	73	75	77	7	15	29.93	30.12
13	SCT	250	10.00		91	72	78	54	6	03	29.72	29.91	13	SCT	250	10.00		87	71	76	59	10	17	29.90	30.09
16	BKN	300	10.00		89	74	78	61	6	04	29.67	29.85	16	SCT	250	10.00		85	71	75	63	10	15	29.86	30.05
19	SCT	044	10.00		76	71	73	85	9	08	29.71	29.90	19	SCT	250	10.00		80	72	75	76	9	13	29.85	30.04
22	OVC	220	10.00		74	72	73	94	0	00	29.71	29.89	22	SCT	060	10.00		75	71	72	88	7	14	29.87	30.05

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
JULY 2016

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					
SUNRISE: 0507 JUL 25 SUNSET: 1924					01	BKN	300	10.00		81	74	76	79	7	21	29.79	29.98
04	CLR	NC	10.00		75	72	73	90	3	18	29.81	29.99					
07	SCT	300	10.00		79	74	76	85	6	21	29.83	30.02					
10	OVC	300	10.00		89	75	79	63	9	22	29.82	30.01					
13	BKN	300	10.00		94	73	79	51	8	24	29.78	29.96					
16	OVC	300	10.00		94	73	79	51	13	21	29.71	29.90					
19	OVC	300	10.00		88	76	79	68	10	20	29.72	29.91					
22	BKN	300	10.00		86	75	78	70	8	21	29.75	29.93					
SUNRISE: 0508 JUL 26 SUNSET: 1924					01	BKN	300	10.00		83	75	77	77	9	23	29.74	29.92
04	FEW	300	10.00		79	74	76	85	3	20	29.75	29.94					
07	BKN	300	10.00		81	73	75	77	7	23	29.78	29.96					
10	BKN	250	10.00		90	75	79	62	8	03	29.79	29.97					
13	BKN	250	10.00		93	73	79	52	5	30	29.77	29.96					
16	BKN	250	10.00		94	74	80	52	5	09	29.72	29.90					
19	OVC	090	3.00	TS+RA BR	75	73	74	94	6	36	29.77	29.96					
22	OVC	110	5.00	TS BR	77	73	74	88	13	30	29.79	29.98					
SUNRISE: 0509 JUL 27 SUNSET: 1923					01	BKN	150	9.00		74	72	73	94	3	VR	29.77	29.96
04	SCT	300	10.00		73	71	72	94	0	00	29.76	29.95					
07	FEW	300	10.00		76	72	73	88	3	24	29.78	29.97					
10	SCT	300	10.00		84	75	78	74	3	VR	29.78	29.97					
13	SCT	300	10.00		90	75	79	62	5	VR	29.76	29.95					
16	BKN	300	10.00		90	73	78	58	0	00	29.73	29.91					
19	BKN	120	10.00		85	76	79	75	5	03	29.73	29.92					
22	BKN	250	10.00		79	74	76	85	3	34	29.74	29.92					
SUNRISE: 0510 JUL 28 SUNSET: 1922					01	FEW	150	10.00		75	73	74	94	3	20	29.74	29.92
04	SCT	150	10.00		75	73	74	94	0	00	29.73	29.92					
07	BKN	300	10.00		77	73	74	88	3	19	29.75	29.93					
10	BKN	300	10.00		85	74	77	70	7	18	29.72	29.91					
13	SCT	300	10.00		91	74	79	57	8	17	29.67	29.86					
16	SCT	300	10.00		93	76	81	58	14	20	29.60	29.78					
19	BKN	300	10.00		89	75	79	63	7	21	29.61	29.80					
22	OVC	050	6.00	-TSRA BR	76	75	75	97	9	03	29.65	29.83					
SUNRISE: 0511 JUL 29 SUNSET: 1921					01	OVC	070	10.00		74	73	73	97	0	00	29.64	29.83
04	FEW	150	10.00		75	74	74	96	10	26	29.61	29.80					
07	OVC	008	10.00		75	72	73	90	10	31	29.68	29.87					
10	BKN	250	10.00		79	72	74	79	10	35	29.72	29.91					
13	BKN	250	10.00		85	71	75	63	7	29	29.72	29.90					
16	SCT	250	10.00		86	70	75	59	3	33	29.71	29.89					
19	SCT	250	10.00		82	71	74	69	3	07	29.73	29.92					
22	FEW	250	10.00		77	72	74	85	0	00	29.77	29.96					
SUNRISE: 0511 JUL 30 SUNSET: 1920					01	FEW	250	10.00		74	71	72	91	0	00	29.77	29.96
04	FEW	160	8.00		73	72	72	96	0	00	29.76	29.94					
07	BKN	200	9.00		77	74	75	90	5	16	29.81	29.99					
10	OVC	220	10.00		82	74	76	77	6	17	29.81	30.00					
13	BKN	100	10.00		75	72	73	90	6	10	29.80	29.99					
16	BKN	150	10.00		78	73	75	85	15	13	29.75	29.94					
19	BKN	180	10.00		77	72	74	85	5	18	29.77	29.96					
22	BKN	250	10.00		76	72	73	88	7	31	29.80	29.99					

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					
SUNRISE: 0512 JUL 31 SUNSET: 1919					01	SCT	250	10.00		73	72	72	96	3	17	29.77	29.96
04	OVC	007	10.00		72	71	71	97	3	11	29.77	29.96					
07	OVC	002	2.00	BR	73	73	73	100	0	00	29.83	30.02					
10	BKN	015	10.00		80	73	75	79	0	00	29.86	30.05					
13	BKN	250	10.00		88	74	78	63	0	00	29.83	30.01					
16	BKN	300	10.00		88	75	79	66	6	16	29.77	29.96					
19	OVC	300	10.00	TS	76	67	70	74	9	15	29.82	30.01					
22	OVC	120	9.00	-TSRA	75	73	74	94	14	21	29.86	30.05					

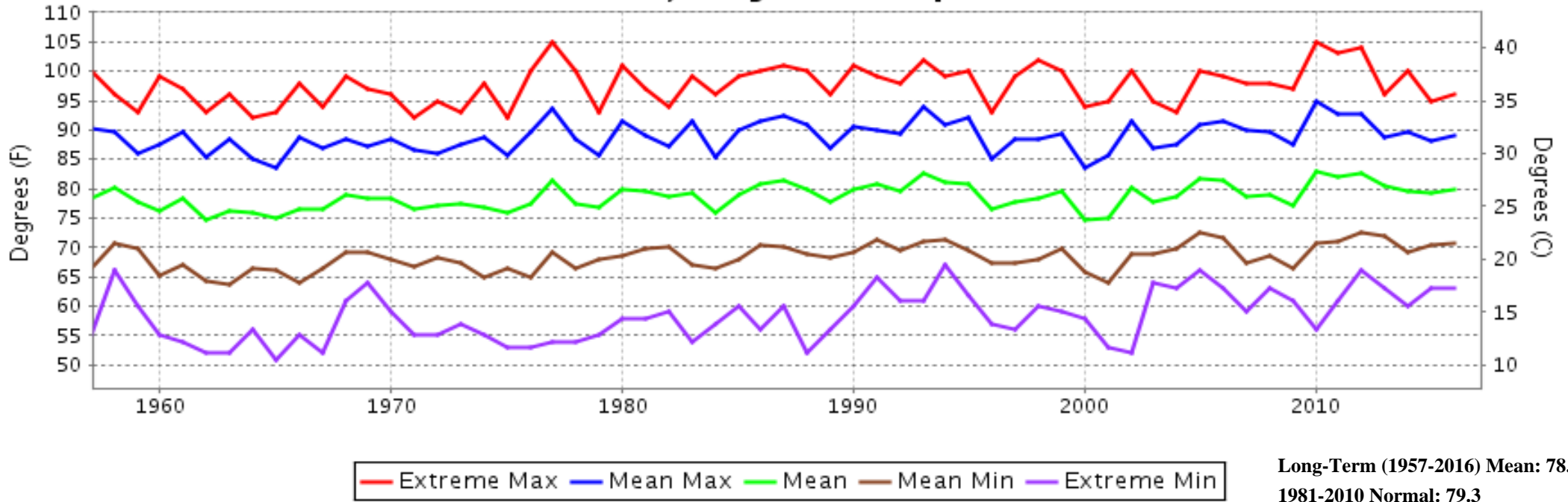
3-HOURLY OBSERVATION NOTES

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.

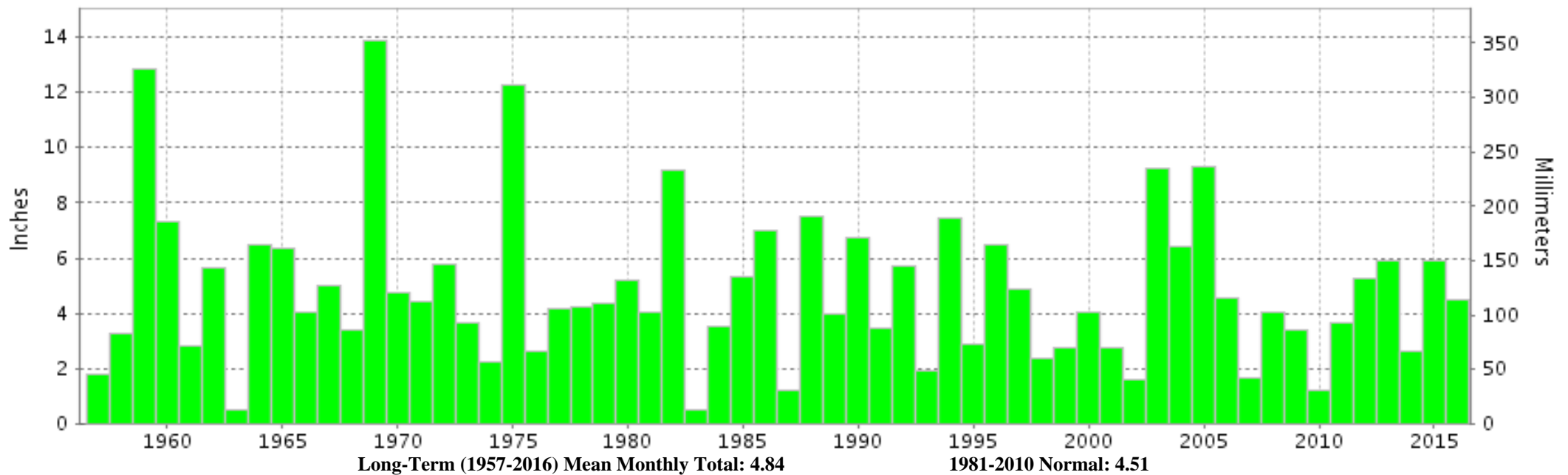
SUMMARY BY HOUR

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	74	70	71	88	29.81	29.99	9.47	5	4	21
02	73	70	71	89	29.80	29.99	9.44	5	5	22
03	73	70	71	90	29.80	29.98	9.26	4	5	21
04	72	69	70	92	29.80	29.99	8.73	4	5	21
05	72	69	70	92	29.81	29.99	8.50	4	4	20
06	72	70	71	92	29.82	30.01	8.19	4	4	20
07	75	70	72	86	29.83	30.02	9.06	5	4	21
08	78	71	73	80	29.84	30.03	9.27	6	4	21
09	81	71	74	73	29.84	30.03	9.74	6	3	20
10	83	71	74	68	29.84	30.03	9.58	7	4	19
11	84	70	75	65	29.84	30.03	9.81	6	4	20
12	85	70	75	62	29.83	30.02	9.41	6	5	21
13	86	70	75	60	29.82	30.01	9.61	7	4	21
14	87	70	75	59	29.80	29.99	9.77	8	4	20
15	87	70	76	58	29.79	29.98	9.77	8	3	21
16	87	70	75	58	29.78	29.96	9.65	9	4	22
17	86	70	75	60	29.77	29.96	9.65	9	3	21
18	85	70	75	63	29.78	29.96	9.40	9	4	22
19	82	71	74	70	29.79	29.98	9.41	6	3	18
20	79	70	73	76	29.80	29.98	9.42	6	3	18
21	77	71	73	81	29.81	30.00	9.29	5	3	17
22	76	71	73	84	29.82	30.00	9.29	7	4	21
23	75	71	72	86	29.82	30.00	9.11	6	3	21
24	75	70	72	87	29.81	30.00	9.52	6	4	21

RICHMOND, VA JULY Temperatures



RICHMOND, VA JULY Precipitation





JULY 2016
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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