



# OCTOBER 2016 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	80	65	73	9	68	70	0	8	RA DZ FG+ FG BR	0		0.0	0.03	29.87	30.06	2.0	35	5.2	17	15	14	14	01	
02	76	63	70	7	63	65	0	5	RA BR	0		0.0	T	29.87	30.05	2.7	36	3.4		8	33	02		
03	79	58	69	6	59	63	0	4	BR	0		0.0	0.00	29.85	30.04	4.5	01	5.2	20	01	14	02	03	
04	75	57	66	4	58	60	0	1	RA BR	0		0.0	T	29.99	30.19	6.7	04	7.2	21	03	15	05	04	
05	70	57	64	2	58	60	1	0		0		0.0	0.00	30.05	30.25	9.9	02	10.1	23	04	17	03	05	
06	71	56	64	2	59	61	1	0	RA BR	0		0.0	0.08	30.06	30.25	8.5	02	8.6	19	01	15	02	06	
07	78	63	71	10	65	66	0	6	RA	0		0.0	T	29.98	30.15	8.7	06	9.1	18	05	15	06	07	
08	67	61	64	3	64	64	1	0	RA BR	0		0.0	3.31	29.77	29.95	13.3	02	13.6	36	03	26	01	08	
09	67	52	60	-1	46	53	5	0	RA BR	0		0.0	0.75	29.78	30.02	18.7	35	19.1	45*	35	33*	35	09	
10	65	46	56	-5	41	48	9	0		0		0.0	0.00	30.11	30.32	8.3	35	8.9	29	35	23	35	10	
11	68	42	55	-5	44	49	10	0		0		0.0	0.00	30.21	30.40	2.1	02	3.0	13	01	12	01	11	
12	71	47	59	-1	52	54	6	0		0		0.0	0.00	30.11	30.29	0.2	35	2.9	13	18	10	18	12	
13	77	52	65	6	55	58	0	0	FG+ FG BR	0		0.0	0.00	29.94	30.14	2.5	33	6.8	25	02	20	01	13	
14	66	48	57	-2	44	50	8	0		0		0.0	0.00	30.14	30.35	5.4	01	5.9	20	36	15	36	14	
15	69	48	59	1	48	52	6	0		0		0.0	0.00	30.18	30.37	1.7	15	2.5	12	20	9	18	15	
16	75	48	62	4	56	57	3	0	FG+ FG BR	0		0.0	0.00	30.02	30.19	4.3	21	4.6	16	22	12	19	16	
17	81	56	69	11	60	63	0	4		0		0.0	0.00	29.83	30.01	3.0	20	3.5	14	24	12	20	17	
18	84	60	72	14	62	65	0	7		0		0.0	0.00	29.78	29.98	7.8	21	8.1	19	22	15	22	18	
19	87*	62	75*	17	64	67	0	10		0		0.0	0.00	29.83	30.03	2.7	19	3.8	14	21	9	22	19	
20	84	63	74	17	64	67	0	9	BR	0		0.0	0.00	29.82	29.99	5.8	15	6.0	17	16	14	18	20	
21	80	58	69	13	60	63	0	4	RA BR	0		0.0	0.01	29.52	29.68	2.6	26	9.2	25	35	21	35	21	
22	63	44	54	-2	35	46	11	0		0		0.0	0.00	29.57	29.80	13.1	31	14.0	39	29	28	31	22	
23	67	37*	52	-4	39	47	13	0		0		0.0	0.00	29.87	30.07	9.6	23	10.1	26	25	21	23	23	
24	76	52	64	9	43	53	1	0		0		0.0	0.00	29.86	30.08	6.5	30	11.0	24	36	18	01	24	
25	64	43	54	-1	36	45	11	0		0		0.0	0.00	30.12	30.33	5.1	36	6.1	22	35	17	34	25	
26	61	39	50*	-5	39	45	15	0		0		0.0	0.00	30.22	30.41	2.2	10	3.3	13	06	9	12	26	
27	71	43	57	3	52	55	8	0	TS TSRA RA	0		0.0	0.06	30.06	30.23	7.9	20	8.4	26	18	22	21	27	
28	66	44	55	1	45	51	10	0		0		0.0	0.00	30.02	30.23	5.3	35	7.4	23	36	17	35	28	
29	76	40	58	4	50	54	7	0		0		0.0	0.00	29.99	30.17	7.4	21	7.5	23	22	17	23	29	
30	82	56	69	15	56	61	0	4		0		0.0	0.00	29.81	29.99	6.9	25	8.6	23	25	18	25	30	
31	67	43	55	1	44	50	10	0		0		0.0	0.00	29.96	30.19	6.5	02	7.6	24	03	20	03	31	
73.0		51.7	62.4	☼	52.5	56.8	4.4	2.0	< MONTHLY AVERAGES   TOTALS >			0.0	4.24	29.94	30.14	2.3	34	7.4	< MONTHLY AVERAGES					
2.0		3.4	2.7		<-----DEPARTURE FROM NORMAL ----->						1.26		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
<b>DEGREE DAYS</b>									GREATEST 24-HR PRECIPITATION : 3.93 DATE : 08-09				SEA LEVEL PRESSURE				DATE		TIME					
MONTHLY				SEASON TO DATE					GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.47				26		1055					
TOTAL DEPARTURE				TOTAL DEPARTURE					GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.58				21		1736					
HEATING :		136		-68		136		-97		NUMBER OF -> DAYS WITH		MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH: 6		PRECIPITATION >= 0.10 INCH: 2		SNOWFALL >= 1.0 INCH : 0				
COOLING :		62		23		1695		152		THUNDERSTORMS : 1		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		HEAVY FOG : 3								

OCTOBER 2016  
RICHMOND, VA

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)  
OCTOBER 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	0.01		T	0.01	T						01												01	0.03	0.03	
02													02	T											02	T	T	
03													03												03	0.00	0.00	
04													04												04	T	T	
05													05						T						05	0.00	0.00	
06													06												06	0.08	0.08	
07	T												07		T						T	0.07	T	0.01	07	T	T	
08	T	0.02	0.06		T	0.05	0.06	0.04	0.05	0.11	0.12	0.14	08	0.16	0.12	0.25	0.21	0.28	0.24	0.20	0.22	0.27	0.17	0.25	0.29	08	3.31	3.31
09	0.24	0.22	0.12	0.07	0.05	0.04	0.01						09												09	0.75	0.75	
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												15	0.00	0.00	
16													16												16	0.00	0.00	
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	T				0.01				T	T	21	0.01	0.01
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												26	0.00	0.00	
27													27		0.03	0.03									27	0.06	0.06	
28													28												28	0.00	0.00	
29													29												29	0.00	0.00	
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)	0.04	0.07	0.10	0.12	0.17	0.24	0.31	0.41	0.49	0.57	0.68	0.79
Ending Date	09	08	08	08	08	09	09	09	09	09	09	09
Ending Time (Hr/Min)	0127	1449	2343	2346	2356	0009	0020	0006	0025	0045	0058	0143

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 OCTOBER 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:

Date	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	0.25	10.00
02	0.25	10.00
03	4.00	10.00
04	6.00	10.00
05	10.00	10.00
06	6.00	10.00
07	8.00	10.00
08	2.50	10.00
09	4.00	10.00
10	10.00	10.00
11	10.00	10.00
12	10.00	10.00
13	0.12	10.00
14	10.00	10.00
15	10.00	10.00
16	0.12	10.00
17	7.00	10.00
18	10.00	10.00
19	8.00	10.00
20	4.00	10.00
21	6.00	10.00
22	10.00	10.00
23	10.00	10.00
24	10.00	10.00
25	10.00	10.00
26	10.00	10.00
27	3.00	10.00
28	10.00	10.00
29	10.00	10.00
30	9.00	10.00
31	10.00	10.00
<b>AVGS</b>	7.04	10.00
<b>MINIMUM VISIBILITY (MILES)</b>		
<= .25	<= 3.0	>= 7.0
4	6	19

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA  
OCTOBER 2016 KRIC

WBAN # 13740

Table with columns: HOUR (LST), SKY COVER, CEILING 100's of FT., VISIBILITY (MILES), WEATHER, TEMPERATURE °F (DRY BULB, DEW POINT, WET BULB), RELATIVE HUMIDITY (PCT), WIND (SPEED MPH, DIRECTION Tens of Deg), PRESSURE (INCHES, HG) (STATION, SEA LEVEL). The table is split into two main sections for Oct 01 and Oct 07, with sub-sections for each day. It contains 24 columns and multiple rows of data.

**OBSERVATIONS AT 3-HOURLY INTERVALS**

**RICHMOND, VA  
OCTOBER 2016**

**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		
<b>SUNRISE: 0615      OCT 13      SUNSET: 1735</b>														<b>SUNRISE: 0621      OCT 19      SUNSET: 1727</b>													
01	BKN	033	10.00		57	54	55	90	0	00	29.98	30.17	01	CLR	NC	10.00			67	63	65	87	6	22	29.81	30.00	
04	BKN	030	4.00	BR	53	53	53	100	0	00	29.95	30.14	04	CLR	NC	10.00			64	62	63	93	5	19	29.80	29.99	
07	BKN	250	0.50	FG	54	54	54	100	3	16	29.94	30.14	07	FEW	300	8.00			63	62	62	97	6	19	29.84	30.03	
10	FEW	250	10.00		67	55	60	66	9	23	29.96	30.15	10	SCT	300	10.00			74	64	68	71	3	21	29.88	30.07	
13	BKN	250	10.00		75	56	64	52	7	26	29.90	30.09	13	SCT	300	10.00			84	65	71	53	0	00	29.84	30.03	
16	SCT	300	10.00		75	57	64	54	7	34	29.89	30.08	16	CLR	NC	10.00			85	65	72	51	3	16	29.82	30.01	
19	FEW	065	10.00		65	58	61	78	5	36	29.94	30.14	19	FEW	090	10.00			74	66	69	76	3	10	29.85	30.04	
22	SCT	300	10.00		62	55	58	78	17	02	30.02	30.21	22	CLR	NC	10.00			70	64	66	82	0	00	29.89	30.09	
<b>SUNRISE: 0616      OCT 14      SUNSET: 1734</b>														<b>SUNRISE: 0622      OCT 20      SUNSET: 1726</b>													
01	BKN	300	10.00		57	46	51	67	9	36	30.09	30.28	01	FEW	070	10.00			67	64	65	91	6	15	29.86	30.05	
04	SCT	060	10.00		51	43	47	74	9	35	30.11	30.30	04	CLR	NC	5.00	BR		64	63	63	96	0	00	29.85	30.04	
07	SCT	300	10.00		50	43	47	77	8	36	30.17	30.36	07	FEW	250	4.00	BR		63	62	62	97	3	12	29.87	30.06	
10	SCT	300	10.00		60	45	52	58	8	03	30.21	30.40	10	FEW	300	10.00			78	67	71	69	5	14	29.86	30.05	
13	BKN	300	10.00		65	44	54	47	3	VR	30.17	30.36	13	SCT	300	10.00			83	65	71	55	11	15	29.80	29.98	
16	BKN	300	10.00		64	44	54	48	8	01	30.14	30.34	16	BKN	300	10.00			81	64	70	57	9	15	29.76	29.95	
19	SCT	300	10.00		53	46	49	77	5	04	30.16	30.35	19	BKN	300	10.00			73	65	68	76	8	15	29.75	29.94	
22	BKN	300	10.00		51	47	49	86	0	00	30.20	30.39	22	SCT	300	10.00			67	63	65	87	8	15	29.74	29.93	
<b>SUNRISE: 0617      OCT 15      SUNSET: 1733</b>														<b>SUNRISE: 0623      OCT 21      SUNSET: 1725</b>													
01	OVC	230	10.00		50	48	49	93	0	00	30.19	30.39	01	SCT	050	10.00			65	62	63	90	8	17	29.70	29.89	
04	BKN	220	10.00		48	46	47	93	0	00	30.18	30.37	04	CLR	NC	10.00			63	61	62	93	5	17	29.62	29.81	
07	SCT	300	10.00		49	46	48	90	0	00	30.21	30.41	07	FEW	300	6.00	BR		61	60	60	97	3	13	29.57	29.76	
10	FEW	300	10.00		62	48	55	60	3	VR	30.24	30.43	10	SCT	300	10.00			74	62	66	67	9	20	29.52	29.71	
13	FEW	300	10.00		67	44	55	44	6	15	30.18	30.37	13	SCT	300	10.00			79	63	69	58	9	18	29.41	29.59	
16	FEW	300	10.00		67	45	55	45	9	19	30.14	30.34	16	OVC	055	10.00			70	57	62	64	10	32	29.41	29.59	
19	FEW	300	10.00		57	49	53	74	3	12	30.14	30.33	19	OVC	100	10.00			63	59	61	87	7	35	29.42	29.61	
22	CLR	NC	10.00		53	51	52	93	0	00	30.14	30.33	22	OVC	110	10.00			61	55	58	81	13	36	29.41	29.60	
<b>SUNRISE: 0618      OCT 16      SUNSET: 1731</b>														<b>SUNRISE: 0624      OCT 22      SUNSET: 1723</b>													
01	CLR	NC	10.00		51	50	50	96	0	00	30.11	30.30	01	BKN	095	10.00			57	48	52	72	14	33	29.44	29.62	
04	FEW	008	3.00	BR	49	48	48	97	0	00	30.09	30.29	04	OVC	100	10.00			55	43	49	64	11	32	29.47	29.66	
07	VV	002	0.12	FG	53	52	52	96	5	23	30.08	30.27	07	SCT	100	10.00			53	39	46	59	14	31	29.53	29.72	
10	SCT	005	10.00		61	58	59	90	7	22	30.06	30.25	10	SCT	200	10.00			57	32	46	39	29	31	29.61	29.80	
13	SCT	030	10.00		73	58	64	59	9	22	29.98	30.18	13	SCT	060	10.00			62	34	49	35	16	32	29.60	29.79	
16	FEW	034	10.00		73	59	64	62	8	22	29.92	30.11	16	FEW	070	10.00			61	32	48	34	15	28	29.62	29.81	
19	FEW	090	10.00		62	59	60	90	6	19	29.92	30.11	19	CLR	NC	10.00			53	30	43	41	14	32	29.72	29.92	
22	FEW	150	10.00		61	59	60	93	6	19	29.91	30.10	22	CLR	NC	10.00			48	32	41	54	6	28	29.77	29.96	
<b>SUNRISE: 0619      OCT 17      SUNSET: 1730</b>														<b>SUNRISE: 0625      OCT 23      SUNSET: 1722</b>													
01	FEW	250	10.00		57	55	56	93	3	17	29.89	30.08	01	CLR	NC	10.00			44	34	40	68	7	24	29.81	30.00	
04	FEW	095	10.00		57	56	56	96	0	00	29.86	30.05	04	CLR	NC	10.00			38	33	36	83	6	24	29.86	30.06	
07	SCT	250	7.00		58	57	57	97	3	19	29.86	30.06	07	CLR	NC	10.00			42	35	39	76	8	23	29.91	30.11	
10	CLR	NC	10.00		72	61	65	68	3	25	29.86	30.05	10	CLR	NC	10.00			58	38	48	48	14	25	29.95	30.14	
13	FEW	035	10.00		79	62	68	56	3	18	29.80	29.99	13	FEW	050	10.00			65	39	52	39	10	23	29.90	30.09	
16	FEW	040	10.00		80	60	67	51	7	23	29.75	29.94	16	CLR	NC	10.00			67	40	53	37	11	24	29.87	30.06	
19	CLR	NC	10.00		69	64	66	84	3	14	29.78	29.97	19	CLR	NC	10.00			57	44	50	62	10	20	29.87	30.06	
22	CLR	NC	10.00		65	62	63	90	7	20	29.79	29.98	22	CLR	NC	10.00			56	44	50	65	10	22	29.84	30.03	
<b>SUNRISE: 0620      OCT 18      SUNSET: 1729</b>														<b>SUNRISE: 0626      OCT 24      SUNSET: 1721</b>													
01	CLR	NC	10.00		66	61	63	84	8	23	29.78	29.97	01	CLR	NC	10.00			57	43	50	60	10	23	29.82	30.01	
04	CLR	NC	10.00		62	59	60	90	3	17	29.78	29.97	04	CLR	NC	10.00			57	42	50	58	10	24	29.80	29.99	
07	CLR	NC	10.00		61	59	60	93	6	19	29.81	30.01	07	CLR	NC	10.00			57	43	50	60	11	25	29.84	30.03	
10	FEW	300	10.00		76	61	67	60	9	23	29.82	30.01	10	CLR	NC	10.00			69	47	57	45	11	27	29.87	30.06	
13	FEW	300	10.00		82	63	70	53	13	21	29.76	29.95	13	FEW	040	10.00			74	43	57	33	13	28	29.83	30.02	
16	SCT	300	10.00		81	62	69	53	13	22	29.74	29.93	16	FEW	080	10.00			73	42	57	33	10	31	29.84	30.03	
19	CLR	NC	10.00		68	63	65	84	8	20	29.78	29.96	19	SCT	090	10.00			61	49	55	65	7	03	29.96	30.15	
22	CLR	NC	10.00		67	63	65	87	7	20	29.81	30.00	22	CLR	NC	10.00			56	38	47	51	16	01	30.03	30.22	

# OBSERVATIONS AT 3-HOURLY INTERVALS

## RICHMOND, VA OCTOBER 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
<p style="text-align: center;"><b>SUNRISE: 0627      OCT 25      SUNSET: 1720</b></p>												
01	CLR	NC	10.00		51	36	44	56	10	36	30.06	30.25
04	CLR	NC	10.00		45	35	41	68	8	36	30.11	30.30
07	CLR	NC	10.00		45	35	41	68	5	35	30.17	30.37
10	CLR	NC	10.00		57	32	46	39	15	36	30.18	30.38
13	FEW	300	10.00		60	33	48	36	0	00	30.11	30.31
16	FEW	300	10.00		62	34	49	35	8	28	30.09	30.28
19	FEW	300	10.00		50	41	46	71	0	00	30.15	30.34
22	CLR	NC	10.00		48	40	44	74	10	02	30.20	30.40
<p style="text-align: center;"><b>SUNRISE: 0628      OCT 26      SUNSET: 1718</b></p>												
01	BKN	150	10.00		42	38	40	85	0	00	30.22	30.42
04	FEW	140	10.00		41	38	40	89	0	00	30.21	30.40
07	BKN	300	10.00		41	37	39	86	0	00	30.25	30.45
10	SCT	300	10.00		54	37	46	53	7	07	30.28	30.47
13	BKN	300	10.00		59	37	49	44	5	VR	30.23	30.42
16	BKN	300	10.00		60	39	50	46	0	00	30.17	30.37
19	FEW	300	10.00		50	43	47	77	8	12	30.19	30.39
22	CLR	NC	10.00		45	41	43	86	6	12	30.20	30.40
<p style="text-align: center;"><b>SUNRISE: 0629      OCT 27      SUNSET: 1717</b></p>												
01	CLR	NC	10.00		44	41	43	89	0	00	30.18	30.37
04	SCT	240	10.00		45	43	44	93	3	11	30.14	30.34
07	BKN	300	10.00		44	42	43	93	0	00	30.14	30.33
10	OVC	300	10.00		62	51	56	67	10	19	30.10	30.29
13	OVC	250	10.00		70	55	61	59	16	20	30.00	30.19
16	BKN	250	10.00		67	61	63	81	7	19	29.95	30.14
19	BKN	120	10.00		66	58	61	75	13	20	29.92	30.12
22	SCT	110	10.00		64	59	61	84	10	21	29.93	30.12
<p style="text-align: center;"><b>SUNRISE: 0630      OCT 28      SUNSET: 1716</b></p>												
01	CLR	NC	10.00		62	59	60	90	9	24	29.92	30.11
04	CLR	NC	10.00		58	57	57	97	3	30	29.93	30.12
07	FEW	300	10.00		51	45	48	80	10	01	30.04	30.24
10	SCT	300	10.00		59	42	51	54	13	36	30.10	30.29
13	BKN	300	10.00		64	40	52	41	10	32	30.06	30.25
16	BKN	300	10.00		64	39	52	40	8	34	30.02	30.22
19	FEW	300	10.00		49	42	46	77	6	14	30.07	30.26
22	CLR	NC	10.00		47	42	45	83	0	00	30.08	30.27
<p style="text-align: center;"><b>SUNRISE: 0631      OCT 29      SUNSET: 1715</b></p>												
01	SCT	300	10.00		46	42	44	86	0	00	30.08	30.27
04	FEW	300	10.00		41	39	40	93	0	00	30.06	30.26
07	FEW	300	10.00		43	41	42	93	0	00	30.07	30.27
10	FEW	300	10.00		62	48	55	60	15	22	30.04	30.24
13	FEW	300	10.00		74	53	62	48	15	20	29.93	30.12
16	SCT	300	10.00		74	54	62	50	11	21	29.87	30.06
19	SCT	300	10.00		62	56	59	80	8	20	29.89	30.08
22	FEW	300	10.00		63	57	60	81	7	22	29.91	30.10
<p style="text-align: center;"><b>SUNRISE: 0632      OCT 30      SUNSET: 1714</b></p>												
01	CLR	NC	10.00		59	56	57	90	3	21	29.88	30.07
04	CLR	NC	10.00		60	56	58	86	5	26	29.85	30.03
07	SCT	250	10.00		58	54	56	87	6	24	29.85	30.04
10	BKN	250	10.00		73	55	62	53	11	26	29.84	30.03
13	BKN	250	10.00		82	54	65	38	15	25	29.77	29.96
16	BKN	250	10.00		78	56	65	47	14	25	29.73	29.92
19	FEW	250	10.00		68	57	62	68	8	21	29.75	29.94
22	BKN	095	10.00		69	57	62	66	6	32	29.79	29.98

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
<p style="text-align: center;"><b>SUNRISE: 0633      OCT 31      SUNSET: 1713</b></p>												
01	OVC	120	10.00		65	56	60	73	7	01	29.82	30.01
04	CLR	NC	10.00		59	49	54	69	13	01	29.88	30.06
07	SCT	300	10.00		53	44	49	72	9	01	29.96	30.16
10	CLR	NC	10.00		57	41	49	55	11	36	30.04	30.23
13	BKN	300	10.00		62	41	51	46	0	00	30.00	30.19
16	SCT	300	10.00		61	40	51	46	8	02	30.01	30.21
19	SCT	300	10.00		51	43	47	74	7	09	30.05	30.25
22	CLR	NC	10.00		46	43	45	89	0	00	30.09	30.28

### 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

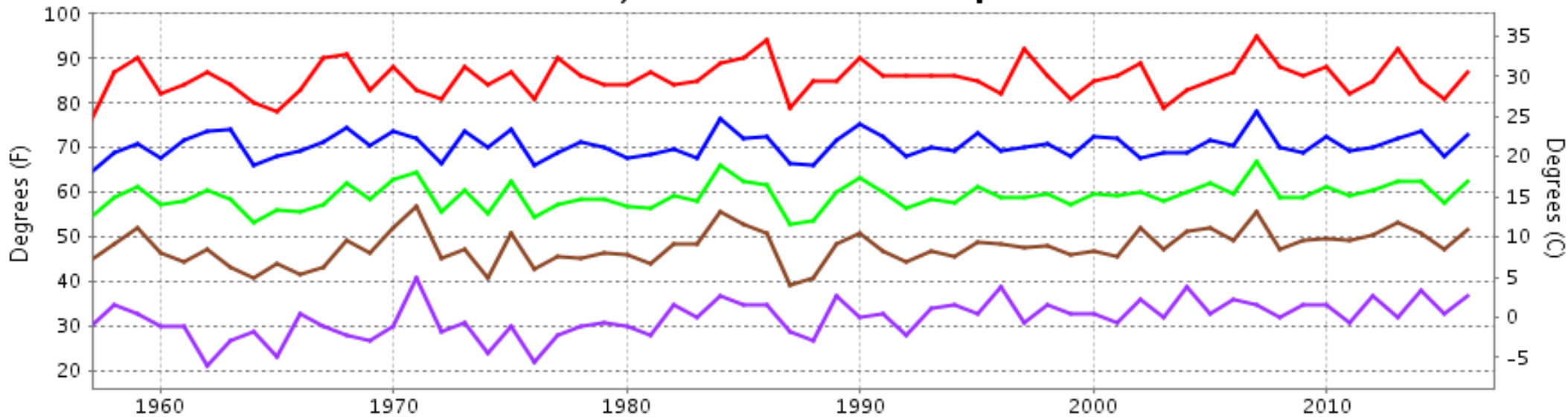
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

& = 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	57	53	55	86	29.94	30.13	9.43	6	3	35
02	57	53	55	87	29.94	30.13	9.45	6	3	34
03	56	52	54	88	29.93	30.12	8.97	6	3	35
04	55	52	53	89	29.94	30.13	9.19	5	3	35
05	55	51	53	88	29.95	30.14	9.06	6	3	34
06	54	51	53	88	29.96	30.15	8.65	6	3	34
07	55	51	53	88	29.97	30.16	8.21	6	3	34
08	58	52	55	82	29.98	30.17	8.87	8	2	34
09	62	53	57	74	29.99	30.18	9.51	9	2	35
10	65	53	58	65	29.98	30.18	9.84	10	3	32
11	68	53	59	60	29.97	30.17	9.81	10	3	32
12	70	52	60	56	29.96	30.15	9.77	9	4	31
13	71	52	61	53	29.93	30.12	9.76	9	4	32
14	71	52	61	53	29.92	30.11	9.58	10	4	31
15	71	52	61	52	29.91	30.10	9.81	9	3	32
16	71	52	60	54	29.91	30.10	9.81	9	3	32
17	68	53	60	60	29.91	30.10	9.81	8	2	35
18	64	54	58	71	29.92	30.11	9.84	7	2	02
19	62	54	58	77	29.93	30.12	9.84	7	3	03
20	60	54	57	80	29.94	30.13	9.87	6	3	01
21	59	54	56	82	29.95	30.14	9.77	6	3	01
22	59	53	56	83	29.95	30.14	9.37	7	3	36
23	58	53	55	84	29.95	30.15	9.36	6	3	01
24	57	52	55	85	29.95	30.14	9.43	6	3	35

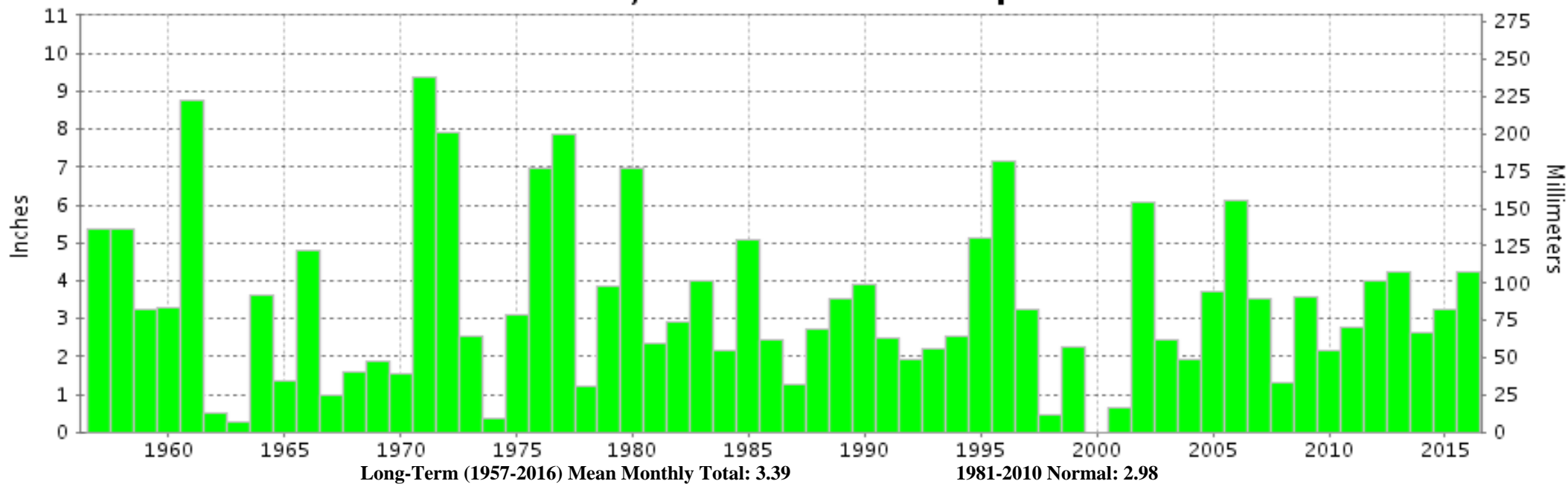
## RICHMOND, VA OCTOBER Temperatures



— Extreme Max   
 — Mean Max   
 — Mean   
 — Mean Min   
 — Extreme Min

**Long-Term (1957-2016) Mean: 59.2**  
**1981-2010 Normal: 59.7**

## RICHMOND, VA OCTOBER Precipitation



Long-Term (1957-2016) Mean Monthly Total: 3.39

1981-2010 Normal: 2.98



OCTOBER 2016  
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 "Margarita Fess".

**DIRECTOR (ACTING)**

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