



OCTOBER 2015 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



**OCTOBER 2015
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 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 17	DIR 18	AVERAGE SPEED 19	SPEED 20	DIR 21	SPEED 22	DIR 23			
01	64	54	59	-5	57	57	6	0	RA DZ BR	0		0.0	0.21	29.76	29.96	13.5	01	13.6	30	02	23	02	01	
02	55	50	53	-10	53	53	12	0	RA DZ BR	0		0.0	1.16	29.80	29.98	15.7	02	15.7	31	01	22	02	02	
03	63	50	57	-6	57	57	8	0	RA DZ BR	0		0.0	0.70	29.79	29.99	15.5	03	15.8	30	02	23	03	03	
04	59	52	56	-6	56	56	9	0	RA DZ BR	0		0.0	0.10	29.88	30.08	15.6	03	15.7	31*	02	23	03	04	
05	66	51	59	-3	52	53	6	0		0		0.0	0.00	29.91	30.10	11.1	02	11.3	28	02	20	02	05	
06	74	46	60	-2	51	55	5	0		0		0.0	0.00	29.86	30.05	4.8	01	5.1	20	03	14	03	06	
07	78	53	66	5	57	60	0	1	HZ	0		0.0	0.00	29.85	30.05	2.2	36	2.4	15	33	13	32	07	
08	79	49	64	3	58	61	1	0	BCFG	0		0.0	0.00	29.93	30.12	1.2	12	2.2	10	15	7	15	08	
09	81*	58	70*	9	62	64	0	5	TS TSRA RA BR	0		0.0	0.28	29.81	29.99	7.1	22	8.6	25	23	21	22	09	
10	63	49	56	-5	52	54	9	0	RA	0		0.0	0.01	29.88	30.08	6.5	02	6.9	25	02	21	03	10	
11	71	45	58	-2	47	51	7	0		0		0.0	0.00	29.82	29.99	2.7	36	3.2	16	32	12	36	11	
12	75	46	61	1	52	56	4	0		0		0.0	0.00	29.67	29.84	2.9	16	3.5	14	18	10	17	12	
13	79	57	68	9	58	61	0	3		0		0.0	0.00	29.47	29.67	8.6	22	9.3	24	24	20	22	13	
14	72	50	61	2	48	55	4	0		0		0.0	0.00	29.65	29.86	3.0	28	4.9	22	01	16	01	14	
15	70	47	59	1	46	51	6	0		0		0.0	0.00	29.86	30.06	2.2	25	3.1	16	22	13	26	15	
16	64	48	56	-2	46	50	9	0	RA	0		0.0	T	29.88	30.09	1.3	23	2.8	21	36	16	01	16	
17	66	39	53	-5	37	45	12	0	MIFG	0		0.0	0.00	29.99	30.21	5.3	34	5.9	29	02	23*	01	17	
18	56	33*	45*	-13	28	37	20	0		0		0.0	0.00	30.17	30.39	6.4	35	6.6	26	34	21	34	18	
19	58	34	46	-12	31	39	19	0	MIFG	0		0.0	0.00	30.29	30.48	2.0	02	4.6	13	36	10	36	19	
20	70	36	53	-4	38	45	12	0		0		0.0	0.00	30.16	30.35	4.2	20	4.5	17	21	13	21	20	
21	74	40	57	1	43	50	8	0		0		0.0	0.00	30.14	30.33	2.8	18	3.3	13	20	10	19	21	
22	79	43	61	5	47	53	4	0		0		0.0	0.00	30.06	30.23	3.0	20	3.1	14	18	10	20	22	
23	73	51	62	6	50	55	3	0		0		0.0	0.00	30.00	30.21	4.5	02	5.1	18	01	14	36	23	
24	65	46	56	1	47	51	9	0		0		0.0	0.00	30.10	30.28	2.6	11	4.1	13	14	9	14	24	
25	71	54	63	8	53	56	2	0	RA	0		0.0	0.01	29.96	30.17	1.6	30	6.7	21	03	15	02	25	
26	58	44	51	-4	40	46	14	0		0		0.0	0.00	30.20	30.42	7.3	02	7.7	20	02	16	03	26	
27	57	46	52	-2	50	51	13	0	RA BR	0		0.0	0.30	30.21	30.38	7.7	03	8.0	20	03	15	03	27	
28	74	57	66	12	65	65	0	1	RA BR	0		0.0	0.47	29.75	29.89	10.6	15	12.8	29	17	22	18	28	
29	75	49	62	8	57	61	3	0	RA MIFG BR	0		0.0	T	29.54	29.75	8.3	23	8.8	23	26	18	26	29	
30	64	43	54	0	40	47	11	0		0		0.0	0.00	29.82	30.04	6.0	35	6.4	24	35	16	36	30	
31	60	39	50	-4	42	46	15	0		0		0.0	0.00	30.01	30.18	2.1	17	3.3	14	15	9	20	31	
										< MONTHLY AVERAGES TOTALS >				0.0	3.24	29.91	30.10	2.5	01	6.9	< MONTHLY AVERAGES			
										<-----DEPARTURE FROM NORMAL ----->				0.26	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS										GREATEST 24-HR PRECIPITATION : 1.50 DATE : 02-03				SEA LEVEL PRESSURE				DATE TIME						
MONTHLY										GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.56				19 0917						
SEASON TO DATE										GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.60				13 1454						
TOTAL DEPARTURE										NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH: 9						
HEATING : 231 27 231 -2										MAXIMUM TEMP <= 32 : 7		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH: 6										
COOLING : 10 -29 1809 266										THUNDERSTORMS : 1		HEAVY FOG : 0		SNOWFALL >= 1.0 INCH : 0										

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
OCTOBER 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	T	T	0.01	T	T	T	T	T	T	T	T	T	01	T	T	T	0.01	T	T	0.04	0.04	0.05	0.02	0.02	0.02	01	0.21	0.21	
02	0.01	0.02	0.03	0.04	0.09	0.10	0.26	0.08	0.03	0.05	0.06	0.09	02	0.07	0.14	0.03	T	T	0.02	0.02	0.01	T	0.01	T	T	02	1.16	1.16	
03	0.03	0.30	0.07	T	T	0.04	0.01	0.01	0.01	0.01	T	T	03	0.06	0.04	0.02	0.02	0.01	0.01	0.01	0.01	T	T	0.04	0.01	03	0.70	0.70	
04	0.02	T	T	T	T	0.01	0.03	0.01	0.01	0.01	0.01	T	04	T	T	T						T	T			04	0.10	0.10	
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									0.23	0.05	T		09	0.28	0.28	
10	T			T	0.01	T							10													10	0.01	0.01	
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	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													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	T				T	T	T	0.01	T	T	T	T	25													25	0.01	0.01	
26													26													26	0.00	0.00	
27													27	0.03	0.01	0.01	0.01	T	0.01	0.01	0.01	0.02	0.03	0.06	0.03	27	0.30	0.30	
28	T	0.01	T	0.01	T	0.01	T	0.01	0.04	0.01	0.03	0.02	28	T	T	T	0.15	0.04	T	T		T	0.04	0.11	28	0.47	0.47		
29	T												29													29	T	T	
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)	0.11	0.16	0.19	0.20	0.23	0.25	0.31	0.35	0.36	0.38	0.43	0.47
Ending Date	09	09	09	09	09	03	03	03	03	02	02	02
Ending Time (Hr/Min)	2138	2141	2145	2151	2156	0158	0206	0223	0240	0730	0711	0740

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 OCTOBER 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	0.75	10.00
02	2.50	10.00
03	2.00	10.00
04	2.00	10.00
05	10.00	10.00
06	10.00	10.00
07	6.00	10.00
08	9.00	10.00
09	5.00	10.00
10	8.00	10.00
11	10.00	10.00
12	10.00	10.00
13	10.00	10.00
14	10.00	10.00
15	10.00	10.00
16	10.00	10.00
17	9.00	10.00
18	10.00	10.00
19	10.00	10.00
20	10.00	10.00
21	10.00	10.00
22	10.00	10.00
23	10.00	10.00
24	10.00	10.00
25	8.00	10.00
26	10.00	10.00
27	2.50	10.00
28	1.00	10.00
29	7.00	10.00
30	10.00	10.00
31	10.00	10.00
AVGS	7.83	10.00
MINIMUM VISIBILITY (MILES)		
<= .25	<= 3.0	>= 7.0
0	6	23

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
OCTOBER 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)		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: 0605					OCT 01					SUNSET: 1753					SUNRISE: 0610					OCT 07					SUNSET: 1744				
01	OVC	012	5.00	-RA BR	62	61	61	96	11	01	29.71	29.90	01	BKN	250	10.00			55	53	54	93	0	00	29.81	30.01			
04	OVC	009	9.00	-RA	59	59	59	100	15	36	29.71	29.90	04	SCT	250	10.00			55	54	54	96	0	00	29.81	30.00			
07	OVC	007	1.75	-RA BR	57	57	57	100	14	02	29.74	29.93	07	BKN	250	10.00			55	54	54	96	3	33	29.86	30.05			
10	OVC	007	0.75	-RA BR	57	57	57	100	15	36	29.78	29.97	10	BKN	250	10.00			68	58	62	70	3	06	29.89	30.08			
13	OVC	012	1.00	-DZ BR	58	58	58	100	15	03	29.78	29.97	13	SCT	250	10.00			74	58	64	57	7	35	29.87	30.06			
16	OVC	017	6.00	BR	56	56	56	100	16	02	29.79	29.98	16	SCT	040	10.00			76	58	65	54	8	34	29.84	30.03			
19	OVC	011	3.00	-RA BR	54	54	54	100	16	01	29.81	30.01	19	FEW	250	10.00			65	60	62	84	0	00	29.86	30.06			
22	OVC	014	4.00	-RA BR	55	55	55	100	13	02	29.82	30.01	22	FEW	250	10.00			60	59	59	96	0	00	29.90	30.09			
SUNRISE: 0605					OCT 02					SUNSET: 1751					SUNRISE: 0611					OCT 08					SUNSET: 1743				
01	OVC	008	6.00	-RA BR	55	55	55	100	16	02	29.79	29.98	01	FEW	050	10.00			59	59	59	100	0	00	29.91	30.10			
04	OVC	007	5.00	-RA BR	55	55	55	100	14	02	29.77	29.96	04	CLR	NC	10.00			58	57	57	97	0	00	29.92	30.11			
07	OVC	020	2.50	RA BR	54	54	54	100	15	02	29.80	29.99	07	FEW	250	9.00	BCFG		57	56	56	96	0	00	29.95	30.14			
10	OVC	011	6.00	-RA BR	53	53	53	100	17	02	29.79	29.98	10	BKN	250	10.00			71	58	63	63	0	00	29.97	30.16			
13	OVC	015	7.00	RA	53	53	53	100	17	02	29.79	29.98	13	OVC	250	10.00			77	57	65	50	0	00	29.94	30.13			
16	OVC	015	10.00		52	52	52	100	15	02	29.75	29.94	16	BKN	250	10.00			75	59	65	58	5	09	29.91	30.09			
19	OVC	013	4.00	-RA BR	51	51	51	100	16	03	29.80	29.99	19	FEW	250	10.00			67	61	63	81	5	14	29.91	30.10			
22	OVC	006	5.00	-DZ BR	51	51	51	100	16	02	29.79	29.98	22	FEW	250	10.00			64	61	62	90	3	14	29.92	30.11			
SUNRISE: 0606					OCT 03					SUNSET: 1750					SUNRISE: 0612					OCT 09					SUNSET: 1741				
01	OVC	009	9.00	-RA	50	50	50	100	16	02	29.78	29.97	01	FEW	300	9.00			60	60	60	100	3	17	29.90	30.09			
04	OVC	007	10.00		51	51	51	100	16	02	29.76	29.95	04	FEW	300	8.00			58	58	58	100	3	18	29.87	30.06			
07	OVC	007	5.00	BR	53	53	53	100	16	01	29.79	29.98	07	BKN	300	7.00			59	59	59	100	6	19	29.86	30.05			
10	OVC	005	2.00	BR	57	57	57	100	16	02	29.80	29.99	10	SCT	300	10.00			74	63	67	69	15	22	29.84	30.03			
13	OVC	007	10.00		61	61	61	100	16	03	29.78	29.97	13	BKN	300	10.00			77	64	69	64	9	22	29.78	29.97			
16	OVC	020	7.00		62	62	62	100	16	03	29.79	29.98	16	BKN	250	10.00			80	62	69	54	16	23	29.72	29.91			
19	OVC	005	3.00	-RA BR	60	60	60	100	15	04	29.82	30.01	19	OVC	250	10.00			70	65	67	84	8	20	29.72	29.91			
22	OVC	015	4.00	-DZ BR	59	59	59	100	16	05	29.85	30.04	22	OVC	065	5.00	TSRA BR		65	62	63	90	0	00	29.79	29.98			
SUNRISE: 0607					OCT 04					SUNSET: 1748					SUNRISE: 0613					OCT 10					SUNSET: 1740				
01	OVC	009	4.00	BR	58	58	58	100	11	03	29.86	30.05	01	BKN	100	8.00			63	63	63	100	0	00	29.81	30.00			
04	OVC	009	5.00	-DZ BR	57	57	57	100	22	03	29.84	30.03	04	OVC	110	10.00	-RA		59	58	58	96	11	35	29.84	30.03			
07	OVC	009	2.50	-RA BR	56	56	56	100	16	03	29.88	30.07	07	OVC	160	10.00			57	55	56	93	9	01	29.89	30.08			
10	OVC	009	2.00	-RA BR	57	57	57	100	16	03	29.90	30.09	10	OVC	055	10.00			57	49	53	74	9	04	29.95	30.15			
13	OVC	013	2.50	-RA BR	59	59	59	100	18	03	29.89	30.08	13	BKN	140	10.00			61	50	55	67	7	05	29.93	30.12			
16	OVC	017	10.00		59	58	58	96	17	03	29.87	30.06	16	BKN	250	10.00			60	46	53	60	7	04	29.90	30.09			
19	OVC	015	6.00	-DZ BR	55	55	55	100	14	02	29.91	30.11	19	SCT	250	10.00			54	48	51	80	0	00	29.89	30.09			
22	OVC	010	3.00	-DZ BR	53	53	53	100	15	02	29.93	30.12	22	FEW	250	10.00			50	48	49	93	3	01	29.91	30.11			
SUNRISE: 0608					OCT 05					SUNSET: 1747					SUNRISE: 0613					OCT 11					SUNSET: 1738				
01	OVC	012	10.00		53	52	52	96	14	02	29.91	30.10	01	CLR	NC	10.00			48	47	48	96	0	00	29.87	30.06			
04	OVC	013	10.00		53	52	52	96	15	01	29.89	30.09	04	CLR	NC	10.00			46	45	46	96	6	01	29.83	30.02			
07	OVC	015	10.00		53	52	52	96	14	01	29.92	30.11	07	FEW	250	10.00			46	45	46	96	7	34	29.86	30.06			
10	OVC	015	10.00		54	51	52	90	11	04	29.95	30.14	10	FEW	250	10.00			60	47	53	62	6	02	29.85	30.05			
13	OVC	023	10.00		61	54	57	78	14	02	29.90	30.10	13	FEW	250	10.00			68	44	55	42	10	36	29.80	29.99			
16	BKN	250	10.00		62	52	56	70	15	05	29.87	30.06	16	CLR	NC	10.00			70	46	57	42	0	00	29.74	29.93			
19	BKN	250	10.00		57	51	54	81	6	36	29.90	30.09	19	CLR	NC	10.00			58	51	54	78	0	00	29.74	29.93			
22	SCT	250	10.00		53	51	52	93	6	36	29.91	30.10	22	CLR	NC	10.00			52	49	50	89	0	00	29.74	29.93			
SUNRISE: 0609					OCT 06					SUNSET: 1745					SUNRISE: 0614					OCT 12					SUNSET: 1737				
01	FEW	300	10.00		50	49	49	96	7	35	29.88	30.08	01	CLR	NC	10.00			49	47	48	93	0	00	29.74	29.93			
04	FEW	300	10.00		48	47	48	97	3	35	29.88	30.07	04	CLR	NC	10.00			47	46	47	97	3	13	29.72	29.91			
07	FEW	300	10.00		49	48	48	97	8	35	29.90	30.09	07	FEW	300	10.00			50	49	49	96	3	34	29.72	29.91			
10	FEW	300	10.00		63	51	56	65	11	01	29.90	30.10	10	FEW	300	10.00			67	52	59	59	6	17	29.72	29.91			
13	FEW	250	10.00		70	50	59	49	5	01	29.85	30.04	13	FEW	300	10.00			73	53	61	50	3	17	29.64	29.83			
16	FEW	250	10.00		72	51	60	48	7	01	29.82	30.01	16	FEW	300	10.00			74	53	62	48	5	17	29.59	29.78			
19	SCT	250	10.00		61	56	58	84	0	00	29.83	30.02	19	SCT	300	10.00			63	56	59	78	7	13	29.57	29.76			
22	FEW	250	10.00		56	54	55	93	0	00	29.82	30.01	22	SCT	300	10.00			61	56	58	84	0	00	29.55	29.74			

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
OCTOBER 2015

KRIC

WBAN # 13740

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F						PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F						PRESSURE (INCHES, HG)									
					DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL						DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL								
SUNRISE: 0615					OCT 13						SUNSET: 1735						SUNRISE: 0621					OCT 19						SUNSET: 1727					
01	CLR	NC	10.00		59	57	58	93	7	20	29.52	29.71	01	CLR	NC	10.00		37	30	34	76	7	36	30.27	30.47								
04	CLR	NC	10.00		58	57	57	97	8	21	29.48	29.67	04	CLR	NC	10.00		35	30	33	82	8	01	30.29	30.49								
07	SCT	250	10.00		58	58	58	100	8	20	29.45	29.64	07	FEW	035	10.00		36	30	34	79	6	02	30.34	30.54								
10	BKN	300	10.00		70	60	64	71	11	22	29.48	29.67	10	FEW	035	10.00		50	29	41	44	6	05	30.35	30.55								
13	SCT	300	10.00		76	57	64	52	14	24	29.44	29.62	13	CLR	NC	10.00		55	29	44	37	3	29	30.30	30.49								
16	SCT	055	10.00		78	55	64	45	11	25	29.44	29.61	16	CLR	NC	10.00		55	28	43	35	0	00	30.25	30.44								
19	SCT	085	10.00		65	60	62	84	8	19	29.48	29.67	19	CLR	NC	10.00		45	35	41	68	3	15	30.24	30.43								
22	BKN	095	10.00		66	61	63	84	6	24	29.55	29.74	22	CLR	NC	10.00		40	34	37	79	6	17	30.22	30.42								
SUNRISE: 0616					OCT 14						SUNRISE: 0622						OCT 20						SUNSET: 1726										
01	CLR	NC	10.00		61	55	58	81	5	28	29.58	29.77	01	CLR	NC	10.00		39	34	37	82	0	00	30.21	30.41								
04	SCT	250	10.00		56	51	53	84	0	00	29.61	29.80	04	CLR	NC	10.00		36	34	35	93	6	19	30.20	30.40								
07	SCT	200	10.00		51	50	50	96	3	22	29.66	29.85	07	FEW	300	10.00		37	34	36	89	3	19	30.20	30.40								
10	SCT	055	10.00		68	46	56	45	6	26	29.69	29.88	10	SCT	300	10.00		58	38	48	48	8	22	30.19	30.38								
13	SCT	250	10.00		70	45	57	41	9	22	29.65	29.84	13	BKN	300	10.00		68	38	53	33	9	16	30.14	30.33								
16	SCT	180	10.00		70	47	57	44	8	29	29.65	29.85	16	BKN	300	10.00		69	35	52	29	6	21	30.10	30.29								
19	BKN	080	10.00		60	50	55	70	0	00	29.70	29.89	19	FEW	300	10.00		55	42	49	62	0	00	30.12	30.32								
22	SCT	080	10.00		57	46	51	67	3	04	29.77	29.96	22	CLR	NC	10.00		51	42	47	71	0	00	30.14	30.33								
SUNRISE: 0617					OCT 15						SUNRISE: 0623						OCT 21						SUNSET: 1725										
01	BKN	095	10.00		52	48	50	86	0	00	29.79	29.98	01	CLR	NC	10.00		46	41	44	83	3	17	30.14	30.33								
04	FEW	070	10.00		52	47	49	83	0	00	29.83	30.02	04	CLR	NC	10.00		45	40	43	83	3	17	30.13	30.32								
07	FEW	065	10.00		49	46	48	90	3	01	29.89	30.08	07	FEW	300	10.00		42	39	41	89	5	15	30.16	30.36								
10	FEW	250	10.00		64	46	54	52	0	00	29.92	30.11	10	FEW	300	10.00		63	44	53	50	0	00	30.18	30.37								
13	SCT	050	10.00		67	42	54	41	11	25	29.87	30.06	13	FEW	300	10.00		72	44	57	37	7	18	30.13	30.32								
16	FEW	050	10.00		68	42	54	39	7	26	29.86	30.05	16	FEW	250	10.00		73	43	57	34	7	20	30.10	30.29								
19	CLR	NC	10.00		56	48	52	75	0	00	29.89	30.08	19	CLR	NC	10.00		57	47	52	69	5	14	30.12	30.32								
22	CLR	NC	10.00		52	46	49	80	0	00	29.87	30.06	22	CLR	NC	10.00		54	45	49	72	3	15	30.12	30.32								
SUNRISE: 0618					OCT 16						SUNRISE: 0624						OCT 22						SUNSET: 1723										
01	CLR	NC	10.00		50	44	47	80	6	21	29.85	30.04	01	CLR	NC	10.00		47	43	45	86	0	00	30.10	30.29								
04	CLR	NC	10.00		49	44	47	83	5	21	29.82	30.02	04	CLR	NC	10.00		47	42	45	83	3	20	30.08	30.27								
07	BKN	100	10.00		53	47	50	80	3	23	29.84	30.04	07	FEW	300	10.00		44	41	43	89	0	00	30.10	30.29								
10	OVC	095	10.00		55	47	51	74	6	01	29.89	30.09	10	SCT	300	10.00		65	48	56	54	3	20	30.10	30.30								
13	BKN	120	10.00		56	44	50	65	0	00	29.89	30.09	13	BKN	300	10.00		76	49	61	39	8	20	30.03	30.22								
16	FEW	035	10.00		63	46	54	54	0	00	29.89	30.08	16	BKN	250	10.00		77	49	61	37	8	22	29.99	30.18								
19	CLR	NC	10.00		52	48	50	86	0	00	29.93	30.13	19	SCT	250	10.00		63	52	57	68	0	00	30.00	30.19								
22	BKN	090	10.00		50	49	49	96	0	00	29.97	30.17	22	FEW	250	10.00		56	50	53	81	5	21	29.99	30.18								
SUNRISE: 0619					OCT 17						SUNRISE: 0625						OCT 23						SUNSET: 1722										
01	FEW	060	10.00		51	48	49	89	0	00	29.97	30.16	01	CLR	NC	10.00		55	50	52	83	0	00	29.96	30.14								
04	FEW	060	10.00	MIFG	44	43	44	96	0	00	29.96	30.15	04	CLR	NC	10.00		53	51	52	93	3	36	29.95	30.14								
07	SCT	250	10.00		42	39	41	89	0	00	29.99	30.19	07	SCT	300	10.00		54	51	52	90	5	36	30.00	30.20								
10	CLR	NC	10.00		58	39	49	50	5	35	30.02	30.21	10	SCT	300	10.00		68	55	60	63	8	01	30.05	30.24								
13	FEW	070	10.00		64	35	50	34	10	27	29.96	30.16	13	FEW	300	10.00		71	53	61	53	8	07	30.01	30.20								
16	SCT	070	10.00		61	35	49	38	13	34	29.97	30.16	16	FEW	250	10.00		71	49	59	46	9	02	29.99	30.18								
19	SCT	080	10.00		50	33	43	52	14	36	30.06	30.26	19	FEW	250	10.00		58	46	52	65	5	05	30.05	30.24								
22	CLR	NC	10.00		43	31	38	63	6	34	30.13	30.32	22	BKN	250	10.00		53	46	49	77	3	03	30.10	30.29								
SUNRISE: 0620					OCT 18						SUNRISE: 0626						OCT 24						SUNSET: 1721										
01	CLR	NC	10.00		38	29	34	70	6	35	30.12	30.32	01	BKN	250	10.00		51	45	48	80	0	00	30.11	30.30								
04	CLR	NC	10.00		35	29	33	78	5	34	30.14	30.33	04	BKN	046	10.00		49	45	47	86	3	01	30.09	30.29								
07	CLR	NC	10.00		35	29	33	78	0	00	30.18	30.38	07	SCT	300	10.00		47	45	46	93	3	36	30.13	30.32								
10	CLR	NC	10.00		50	28	41	43	10	34	30.20	30.40	10	OVC	050	10.00		59	47	53	64	8	13	30.15	30.34								
13	FEW	070	10.00		54	24	42	31	11	32	30.17	30.37	13	OVC	050	10.00		61	45	53	56	3	12	30.11	30.31								
16	SCT	080	10.00		53	25	41	34	9	35	30.16	30.36	16	BKN	250	10.00		63	48	55	58	6	17	30.06	30.25								
19	CLR	NC	10.00		44	32	39	63	3	34	30.22	30.42	19	OVC	240	10.00		57	50	53	78	0	00	30.06	30.25								
22	CLR	NC	10.00		40	29	36	65	5	33	30.27	30.46	22	BKN	180	10.00		54	50	52	87	5	14	30.03	30.22								

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

OCTOBER 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					
SUNRISE: 0627					OCT 25								SUNSET: 1720				
01	OVC	110	10.00		55	52	53	90	5	17	29.98	30.17					
04	OVC	100	10.00		55	52	53	90	6	19	29.93	30.13					
07	OVC	080	10.00	-RA	56	54	55	93	3	19	29.94	30.13					
10	OVC	100	10.00	-RA	59	56	57	90	8	23	29.96	30.16					
13	BKN	120	10.00		69	59	63	70	8	28	29.93	30.12					
16	OVC	180	10.00		67	55	60	66	7	36	29.94	30.13					
19	OVC	300	10.00		61	53	57	75	7	01	30.02	30.21					
22	BKN	250	10.00		57	45	51	64	10	02	30.08	30.27					
SUNRISE: 0628					OCT 26								SUNSET: 1718				
01	OVC	300	10.00		53	43	48	69	8	01	30.12	30.31					
04	OVC	300	10.00		51	40	46	66	9	01	30.16	30.36					
07	OVC	300	10.00		50	40	45	68	9	01	30.22	30.41					
10	OVC	300	10.00		53	41	47	64	9	36	30.26	30.45					
13	OVC	230	10.00		57	39	48	51	9	03	30.22	30.41					
16	OVC	140	10.00		55	39	47	55	8	04	30.22	30.41					
19	SCT	095	10.00		51	40	46	66	0	00	30.25	30.44					
22	SCT	250	10.00		45	40	43	83	6	02	30.27	30.46					
SUNRISE: 0629					OCT 27								SUNSET: 1717				
01	CLR	NC	10.00		47	43	45	86	8	04	30.25	30.45					
04	OVC	170	10.00		48	43	46	83	7	03	30.23	30.42					
07	OVC	110	10.00		48	44	46	86	8	36	30.26	30.45					
10	OVC	095	10.00	-RA	50	48	49	93	9	01	30.27	30.47					
13	OVC	100	8.00	-RA	53	52	52	96	9	03	30.19	30.39					
16	OVC	047	10.00		54	54	54	100	13	04	30.15	30.34					
19	OVC	100	10.00	-RA	55	54	54	96	7	03	30.13	30.32					
22	OVC	090	10.00	-RA	55	55	55	100	8	03	30.09	30.28					
SUNRISE: 0630					OCT 28								SUNSET: 1716				
01	OVC	010	7.00	-RA	58	58	58	100	8	07	30.00	30.19					
04	OVC	012	10.00		61	60	60	97	9	10	29.91	30.10					
07	OVC	030	10.00		63	62	62	97	11	10	29.84	30.03					
10	OVC	007	4.00	-RA BR	67	66	66	97	11	14	29.77	29.96					
13	OVC	024	10.00		72	69	70	91	14	16	29.66	29.84					
16	OVC	055	1.00	RA BR	70	69	69	97	7	17	29.56	29.75					
19	BKN	055	10.00		69	67	68	93	15	18	29.53	29.72					
22	OVC	075	10.00	-RA	69	67	68	93	13	18	29.52	29.71					
SUNRISE: 0631					OCT 29								SUNSET: 1715				
01	OVC	045	10.00		68	67	67	96	9	21	29.48	29.67					
04	SCT	070	10.00		65	64	64	97	9	22	29.48	29.67					
07	SCT	250	7.00	MIFG	60	60	60	100	5	21	29.55	29.74					
10	SCT	250	10.00		70	61	64	73	10	22	29.59	29.78					
13	OVC	250	10.00		74	54	62	50	16	25	29.55	29.74					
16	OVC	095	10.00		70	53	60	55	10	26	29.55	29.74					
19	BKN	260	10.00		65	52	58	63	8	25	29.60	29.80					
22	BKN	240	10.00		56	51	53	84	0	00	29.64	29.84					
SUNRISE: 0632					OCT 30								SUNSET: 1714				
01	SCT	300	10.00		51	49	50	92	0	00	29.68	29.87					
04	SCT	250	10.00		48	47	48	96	0	00	29.72	29.91					
07	FEW	250	10.00		48	41	45	77	3	35	29.80	29.99					
10	CLR	NC	10.00		57	36	47	45	10	02	29.87	30.06					
13	CLR	NC	10.00		62	36	50	38	10	31	29.85	30.04					
16	FEW	050	10.00		60	36	49	41	9	33	29.86	30.05					
19	CLR	NC	10.00		50	39	45	66	6	02	29.93	30.12					
22	CLR	NC	10.00		46	38	42	73	3	02	29.96	30.15					

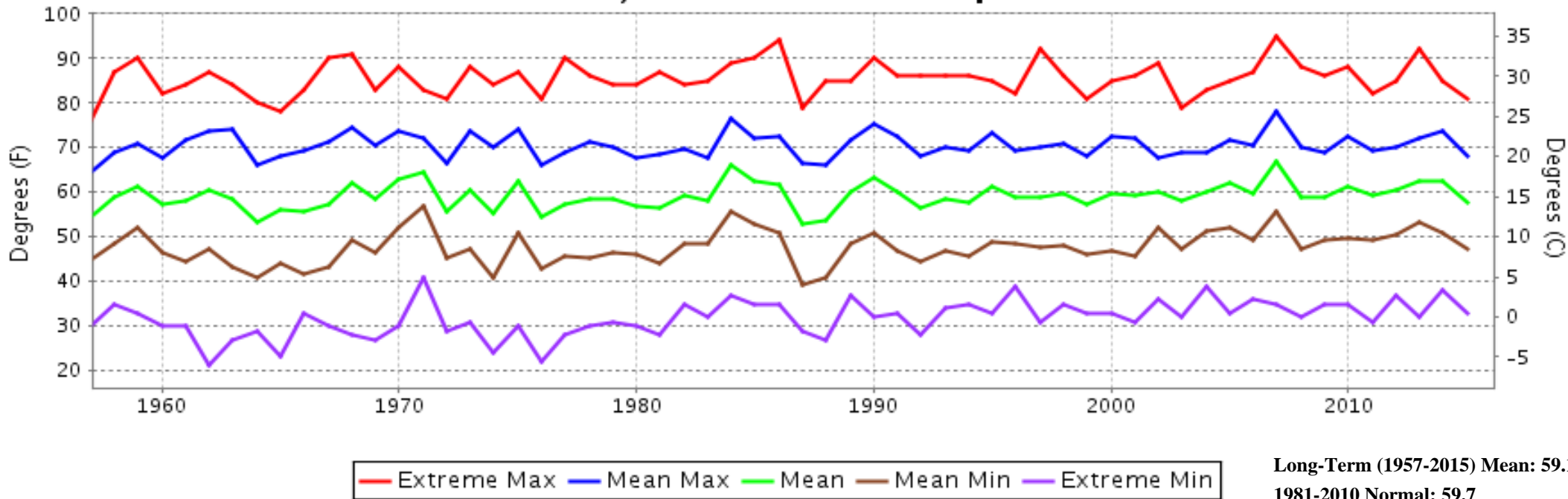
HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)						
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL					
SUNRISE: 0633					OCT 31								SUNSET: 1713				
01	CLR	NC	10.00		43	38	41	82	0	00	30.00	30.19					
04	CLR	NC	10.00		41	38	40	89	0	00	30.00	30.19					
07	SCT	250	10.00		40	37	39	89	0	00	30.04	30.24					
10	BKN	250	10.00		53	42	48	66	0	00	30.07	30.26					
13	BKN	250	10.00		57	42	50	58	5	17	30.02	30.21					
16	BKN	250	10.00		59	43	51	56	7	21	29.97	30.16					
19	BKN	250	10.00		53	45	49	74	6	15	29.96	30.16					
22	BKN	250	10.00		52	46	49	80	5	16	29.90	30.10					

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.

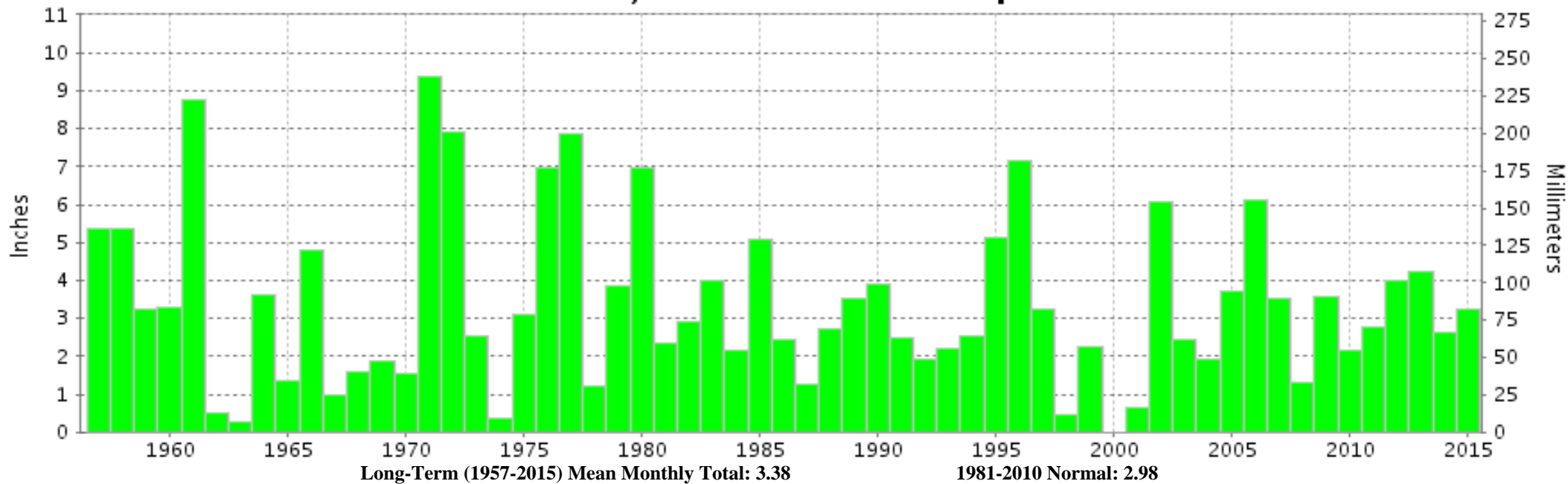
SUMMARY BY HOUR

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	52	49	51	89	29.91	30.10	9.29	5	2	03
02	52	49	50	90	29.90	30.09	9.13	6	3	04
03	51	49	50	91	29.90	30.09	9.74	5	2	02
04	51	48	50	91	29.90	30.09	9.55	6	2	03
05	50	48	49	91	29.91	30.10	9.39	6	2	03
06	50	47	49	92	29.92	30.11	9.13	5	2	03
07	50	48	49	92	29.93	30.12	8.86	6	2	03
08	54	50	52	85	29.94	30.14	9.08	7	2	03
09	58	49	54	75	29.95	30.14	9.03	9	1	02
10	60	49	55	69	29.95	30.14	8.86	8	2	03
11	63	49	56	64	29.94	30.13	8.82	9	1	36
12	64	49	56	62	29.93	30.12	9.07	10	1	36
13	65	49	57	59	29.91	30.10	9.31	9	2	34
14	66	49	57	57	29.89	30.08	9.05	9	1	34
15	67	48	57	56	29.88	30.07	9.37	9	2	32
16	66	49	56	58	29.88	30.07	9.48	9	1	35
17	63	49	56	63	29.88	30.07	9.52	8	2	03
18	60	50	55	72	29.89	30.09	9.23	7	2	05
19	57	50	54	78	29.90	30.10	9.23	6	3	04
20	56	50	53	81	29.91	30.10	9.16	6	2	05
21	55	50	53	82	29.92	30.11	9.13	6	3	05
22	54	49	52	85	29.92	30.11	9.06	5	2	04
23	54	49	51	86	29.92	30.11	9.13	5	2	04
24	52	49	51	88	29.92	30.11	9.13	5	2	03

RICHMOND, VA OCTOBER Temperatures



RICHMOND, VA OCTOBER Precipitation





**OCTOBER 2015
RICHMOND, VA**

LOCAL CLIMATOLOGICAL DATA

NOAA, National Centers for Environmental Information

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

DIRECTOR

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