



DECEMBER 2014 LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

RICHMOND, VA
RICHMOND INTERNATIONAL AIRPORT (KRIC)
 Lat:37° 30'N Long: 77° 19'W Elev (Ground) 164 Feet
 Time Zone : EASTERN WBAN: 13740 ISSN#: 0198-537X



Date 1	Temperature °F						Deg Days BASE 65°		WEATHER 10	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								Date 24
	MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEP FROM NORMAL 5	AVERAGE DEW PT 6	AVERAGE WET BULB 7	HEATING 8	COOLING 9		0700 LST	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	76*	49	63*	18	47	53	2	0	RA	0	0.0	0.01	30.04	30.27	5.3	25	10.8	32	02	28	02	01		
02	49	39	44	0	37	40	21	0	DZ FG BR	0	0.0	0.01	30.27	30.46	6.5	02	6.9	28	04	22	03	02		
03	59	40	50	6	46	47	15	0	DZ BR	0	0.0	T	30.03	30.23	5.5	21	7.0	22	23	18	21	03		
04	50	37	44	1	29	38	21	0	RA	0	0.0	0.04	30.21	30.43	3.8	04	3.9	17	03	13	03	04		
05	48	40	44	1	37	41	21	0	RA	0	0.0	0.03	30.28	30.46	1.1	05	1.4		12	35	05	05		
06	56	45	51	8	45	48	14	0	RA BR	0	0.0	0.37	29.99	30.17	0.8	29	6.3	36	36	28	35	06		
07	50	35	43	0	25	36	22	0	RA	0	0.0	T	30.17	30.41	15.3	01	15.6	37*	03	29*	02	07		
08	41	32	37	-5	27	34	28	0	RA DZ BR	0	0.0	T	30.24	30.41	11.2	01	11.5	24	01	20	02	08		
09	46	34	40	-2	35	38	25	0	RA DZ BR	0	0.0	0.03	29.80	29.96	11.7	33	11.9	24	34	20	33	09		
10	52	37	45	3	29	38	20	0		0	0.0	0.00	29.69	29.89	11.2	31	11.9	30	30	20	31	10		
11	50	27	39	-2	18	32	26	0		0	0.0	0.00	29.75	29.97	8.1	26	8.9	24	27	18	28	11		
12	54	29	42	1	18	33	23	0		0	0.0	0.00	29.90	30.11	3.3	30	6.2	24	30	21	31	12		
13	55	27	41	0	25	34	24	0		0	0.0	0.00	29.89	30.08	0.7	31	1.3	14	24	10	32	13		
14	60	26	43	2	29	36	22	0		0	0.0	0.00	29.82	30.02	0.2	22	1.9	13	31	9	05	14		
15	59	32	46	6	35	40	19	0	HZ	0	0.0	0.00	29.90	30.10	1.3	14	2.3	14	36	10	01	15		
16	50	35	43	3	41	43	22	0	RA FG BR HZ	0	0.0	0.54	29.80	29.98	3.4	19	5.1	21	27	16	27	16		
17	60	39	50	10	36	43	15	0	FG BR	0	0.0	0.00	29.80	30.01	6.0	27	6.7	21	28	16	29	17		
18	47	30	39	-1	23	33	26	0		0	0.0	0.00	29.93	30.13	5.1	35	5.6	19	33	15	34	18		
19	47	31	39	-1	23	32	26	0		0	0.0	0.00	29.98	30.19	4.6	35	5.3	20	33	13	31	19		
20	39	29	34	-5	22	30	31	0		0	0.0	0.00	30.09	30.30	2.0	03	2.2	12	02	10	04	20		
21	47	34	41	2	26	34	24	0		0	0.0	0.00	30.12	30.32	1.8	07	2.3	10	04	8	04	21		
22	39	35	37	-2	32	36	28	0	RA BR	0	0.0	0.27	30.01	30.19	7.7	01	8.5	18	31	14	36	22		
23	47	37	42	3	39	41	23	0	RA DZ FG+ FG BR HZ	0	0.0	0.18	29.86	30.05	1.5	34	3.1	15	33	12	35	23		
24	66	46	56	18	51	53	9	0	RA DZ FG+ FG BR	0	0.0	1.17	29.62	29.78	2.9	19	5.2	25	19	18	18	24		
25	66	38	52	14	39	47	13	0	RA	0	0.0	0.02	29.70	29.96	8.2	28	9.8	30	25	22	26	25		
26	57	31	44	6	31	37	21	0		0	0.0	0.00	30.10	30.30	1.1	15	1.2	12	18	8	19	26		
27	65	30	48	10	35	42	17	0		0	0.0	0.00	30.06	30.24	4.4	18	4.6	16	19	13	20	27		
28	64	48	56	18	44	49	9	0	RA BR	0	0.0	0.01	29.83	30.02	5.6	21	6.5	22	24	17	23	28		
29	52	39	46	8	38	41	19	0	RA BR	0	0.0	0.46	29.97	30.19	7.7	02	8.0	22	01	16	01	29		
30	45	26	36	-1	26	33	29	0	RA	0	0.0	T	30.14	30.37	5.3	01	5.8	24	02	21	02	30		
31	44	23*	34*	-3	18	27	31	0		0	0.0	0.00	30.20	30.39	1.8	29	3.1	14	35	13	34	31		
52.9		34.8	43.9	Σ	32.5	39.0	20.8	0.0	< MONTHLY AVERAGES TOTALS >		0.0	3.14	29.97	30.17	2.4	33	6.2	< MONTHLY AVERAGES						
2.2		3.4	2.9		<-----DEPARTURE FROM NORMAL ----->							-0.12	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS									GREATEST 24-HR PRECIPITATION : 1.35 DATE : 23-24				SEA LEVEL PRESSURE				DATE		TIME					
MONTHLY									GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.55				02		0928					
TOTAL DEPARTURE									GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.62				24		2354					
SEASON TO DATE									NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 13		PRECIPITATION >= 0.01 INCH : 13							
HEATING : 646 -97 1316 -103									MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH : 6											
COOLING : 0 -1 1679 130									THUNDERSTORMS : 0		HEAVY FOG : 2		SNOWFALL >= 1.0 INCH : 0											

**DECEMBER 2014
RICHMOND, VA**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
DECEMBER 2014

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	0.01	0.01	
02													02												02	0.01	0.01	
03													03												03	T	T	
04													04												04	0.04	0.04	
05	0.01	T	0.01	0.01									05												05	0.03	0.03	
06													06	0.02	0.01	0.01	0.05	0.05	0.07	0.02	0.02	0.04	T	0.05	0.02	06	0.37	0.37
07	T												07												07	T	T	
08													08												08	T	T	
09	T	T	0.01	T	T	T	0.01	T	T	T	T	0.01	09	T	T	T									09	0.03	0.03	
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	0.13	0.38	T									16	0.54	0.54	
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	0.03	0.02	0.02		0.04	0.01	T	T	0.01	T	T	0.01	0.27	0.27	
23	T	T	T	T	T								23												23	0.18	0.18	
24	0.21	0.05	0.09	0.03	0.01	T	0.01	0.16	0.13	0.10	0.32	0.03	24	0.01	T	T	T		T	T	T	0.02	T	T	0.10	1.17	1.17	
25	T	T	0.01	0.01	T								25												25	0.02	0.02	
26													26												26	0.00	0.00	
27													27												27	0.00	0.00	
28													28	T		T	T	0.01	T						28	0.01	0.01	
29	0.02	T	T	0.02	0.03	0.07	0.05	0.10	0.05	0.07	0.05	T	29	T	T	T	T								29	0.46	0.46	
30	T	T	T	T	T	T	T	T	T	T	T		30												30	T	T	
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)	0.07	0.14	0.21	0.26	0.32	0.37	0.41	0.45	0.48	0.52	0.54	0.56
Ending Date	16	16	16	16	16	16	16	16	16	16	16	24
Ending Time (Hr/Min)	1338	1338	1338	1340	1342	1346	1346	1354	1346	1354	1354	1101

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 DECEMBER 2014

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet.

Clear = 0-2 oktas, Partly Cloudy = 3-6 oktas, Cloudy = 7-8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

NORMALS ARE FOR THE YEARS 1981-2010

ADDITIONAL NOTES & ERRATA:

Station Augmentation-SANDSTON COOP
Lat/Lon:37.54417/-77.27583 Elevation:165
Distance:4 MI Dir:E
Augmented Elements:Temp, Precip, Snow
Equipment:METS, SRG, Snowboard

Date	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	10.00	10.00
02	0.50	10.00
03	0.50	10.00
04	9.00	10.00
05	7.00	10.00
06	1.00	10.00
07	10.00	10.00
08	2.00	10.00
09	2.00	10.00
10	10.00	10.00
11	10.00	10.00
12	10.00	10.00
13	8.00	10.00
14	8.00	10.00
15	6.00	10.00
16	1.25	7.00
17	1.00	10.00
18	10.00	10.00
19	10.00	10.00
20	10.00	10.00
21	9.00	10.00
22	1.25	10.00
23	0.25	5.00
24	0.12	10.00
25	10.00	10.00
26	10.00	10.00
27	10.00	10.00
28	5.00	10.00
29	5.00	10.00
30	10.00	10.00
31	9.00	10.00
AVGS	6.32	9.74
MINIMUM VISIBILITY (MILES)		
<= .25	<= 3.0	>= 7.0
2	10	18

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
DECEMBER 2014 **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: 0705 DEC 01					SUNSET: 1652					SUNRISE: 0710 DEC 07					SUNSET: 1651										
01	CLR	NC	10.00		52	44	48	75	8	20	30.04	30.23	01	OVC	016	10.00		45	39	42	80	17	36	30.02	30.21
04	CLR	NC	10.00		52	45	49	77	7	22	30.05	30.24	04	OVC	034	10.00		44	35	40	71	18	35	30.09	30.28
07	FEW	050	10.00		51	45	48	80	8	21	30.07	30.26	07	SCT	250	10.00		39	29	35	67	20	36	30.18	30.37
10	CLR	NC	10.00		67	47	56	49	14	24	30.09	30.28	10	FEW	040	10.00		43	25	36	49	22	01	30.25	30.45
13	FEW	070	10.00		75	50	61	41	17	26	30.01	30.21	13	CLR	NC	10.00		48	22	38	36	16	02	30.22	30.42
16	SCT	250	10.00		73	50	60	44	10	24	30.01	30.21	16	FEW	300	10.00		48	18	37	30	17	02	30.24	30.44
19	SCT	250	10.00		60	50	55	70	8	20	30.06	30.25	19	CLR	NC	10.00		42	18	33	38	14	02	30.29	30.48
22	OVC	060	10.00		52	47	49	83	20	36	30.20	30.40	22	BKN	300	10.00		37	21	31	52	8	36	30.31	30.50
SUNRISE: 0706 DEC 02					SUNSET: 1651					SUNRISE: 0711 DEC 08					SUNSET: 1651										
01	OVC	020	10.00		48	38	43	68	14	03	30.25	30.45	01	FEW	250	10.00		33	20	29	58	7	36	30.30	30.50
04	OVC	023	10.00		46	36	42	68	9	01	30.29	30.48	04	OVC	030	10.00		36	21	31	55	11	01	30.30	30.50
07	OVC	035	10.00		44	36	41	73	8	02	30.32	30.51	07	OVC	032	10.00		36	22	31	57	10	36	30.31	30.51
10	OVC	010	2.50	-DZ BR	41	38	40	89	8	06	30.35	30.54	10	OVC	038	10.00		38	24	33	57	16	01	30.32	30.52
13	OVC	007	3.00	BR	41	38	40	89	8	35	30.28	30.47	13	OVC	021	10.00		41	27	36	57	10	02	30.23	30.43
16	OVC	005	1.75	-DZ BR	40	38	39	93	5	01	30.23	30.43	16	OVC	017	10.00		40	30	36	68	14	02	30.19	30.38
19	OVC	005	1.75	-DZ BR	40	37	39	89	5	36	30.23	30.42	19	OVC	013	10.00		39	31	36	73	11	01	30.14	30.33
22	OVC	008	4.00	BR	40	37	39	89	3	06	30.19	30.38	22	OVC	009	8.00		38	32	36	79	14	02	30.03	30.23
SUNRISE: 0707 DEC 03					SUNSET: 1651					SUNRISE: 0712 DEC 09					SUNSET: 1651										
01	OVC	002	0.50	FG	40	38	39	93	6	22	30.14	30.34	01	OVC	005	3.00	-DZ BR	36	33	35	89	10	35	29.96	30.16
04	OVC	004	5.00	BR	40	38	39	93	7	20	30.10	30.29	04	OVC	005	10.00		34	31	33	89	14	35	29.87	30.06
07	OVC	017	6.00	BR	41	40	41	96	8	20	30.07	30.27	07	OVC	005	6.00	-RA BR	36	32	34	86	9	34	29.82	30.02
10	OVC	006	9.00		47	45	46	93	9	20	30.05	30.24	10	OVC	007	3.00	-RA BR	38	34	36	86	13	34	29.78	29.97
13	OVC	300	10.00		56	51	53	84	14	21	29.95	30.14	13	OVC	007	2.00	BR	41	38	40	89	13	33	29.71	29.91
16	OVC	300	10.00		58	52	55	81	9	23	29.92	30.11	16	OVC	060	10.00		45	40	43	83	9	33	29.67	29.86
19	OVC	220	10.00		55	52	53	90	3	31	29.99	30.19	19	OVC	100	10.00		46	37	42	71	15	33	29.68	29.88
22	OVC	240	10.00		53	50	51	89	7	02	30.06	30.26	22	BKN	130	10.00		45	36	41	71	13	33	29.70	29.90
SUNRISE: 0708 DEC 04					SUNSET: 1651					SUNRISE: 0713 DEC 10					SUNSET: 1651										
01	BKN	220	10.00		46	38	42	73	5	02	30.12	30.31	01	FEW	075	10.00		43	33	39	68	14	32	29.70	29.90
04	BKN	250	10.00		39	27	34	62	6	03	30.16	30.35	04	CLR	NC	10.00		44	32	39	63	13	32	29.68	29.88
07	BKN	230	10.00		38	26	33	62	5	02	30.22	30.42	07	SCT	050	10.00		38	31	35	76	7	29	29.70	29.90
10	BKN	250	10.00		44	28	38	53	9	05	30.30	30.49	10	FEW	060	10.00		48	32	41	54	10	32	29.71	29.91
13	OVC	250	10.00		48	27	39	44	5	07	30.23	30.42	13	BKN	095	10.00		50	30	41	46	20	30	29.67	29.86
16	OVC	150	10.00		47	26	39	44	0	00	30.23	30.43	16	BKN	100	10.00		50	29	41	44	16	32	29.67	29.86
19	OVC	095	10.00	-RA	46	30	39	54	5	06	30.26	30.45	19	FEW	100	10.00		45	25	37	46	11	30	29.68	29.88
22	OVC	048	9.00	-RA	42	33	38	71	5	05	30.28	30.48	22	FEW	100	10.00		41	23	34	49	9	28	29.70	29.90
SUNRISE: 0709 DEC 05					SUNSET: 1651					SUNRISE: 0714 DEC 11					SUNSET: 1651										
01	OVC	035	10.00		41	35	38	79	3	08	30.29	30.49	01	CLR	NC	10.00		36	23	31	59	7	27	29.71	29.90
04	OVC	043	10.00		41	36	39	82	0	00	30.29	30.49	04	CLR	NC	10.00		34	21	29	59	7	28	29.73	29.93
07	OVC	095	9.00		41	36	39	82	3	04	30.31	30.51	07	CLR	NC	10.00		30	21	27	69	8	24	29.76	29.96
10	OVC	100	9.00		43	36	40	76	0	00	30.33	30.53	10	FEW	150	10.00		40	19	33	43	11	27	29.79	29.98
13	OVC	110	10.00		48	34	42	58	5	32	30.29	30.48	13	FEW	200	10.00		47	17	36	30	11	30	29.76	29.95
16	OVC	150	10.00		47	37	43	69	0	00	30.24	30.43	16	SCT	250	10.00		48	15	36	27	11	26	29.76	29.96
19	OVC	034	10.00		47	39	43	74	0	00	30.23	30.42	19	OVC	250	10.00		43	17	34	35	7	25	29.80	30.00
22	OVC	023	10.00		48	39	44	71	0	00	30.20	30.40	22	BKN	250	10.00		40	15	31	36	9	24	29.84	30.03
SUNRISE: 0709 DEC 06					SUNSET: 1651					SUNRISE: 0714 DEC 12					SUNSET: 1652										
01	OVC	120	10.00		46	40	43	79	0	00	30.14	30.34	01	BKN	250	10.00		38	14	30	37	5	24	29.87	30.07
04	OVC	050	10.00		47	41	44	80	3	15	30.10	30.29	04	OVC	110	10.00		38	14	30	37	6	25	29.88	30.08
07	OVC	047	10.00		48	41	45	77	6	20	30.06	30.26	07	BKN	250	10.00		34	17	28	50	5	16	29.91	30.11
10	OVC	016	10.00		52	43	48	72	9	22	30.03	30.22	10	BKN	250	10.00		43	18	34	37	8	27	29.94	30.13
13	OVC	055	6.00	-RA BR	52	49	50	89	6	17	29.92	30.11	13	BKN	080	10.00		54	16	40	22	8	34	29.89	30.08
16	OVC	003	1.00	-RA BR	53	51	52	93	3	15	29.86	30.05	16	SCT	250	10.00		51	18	38	27	9	35	29.87	30.07
19	OVC	003	2.00	-RA BR	55	53	54	93	5	22	29.84	30.03	19	FEW	250	10.00		40	21	33	47	6	04	29.93	30.13
22	BKN	020	10.00	-RA	48	43	46	83	17	35	29.95	30.14	22	SCT	300	10.00		32	22	29	66	0	00	29.95	30.15

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
DECEMBER 2014

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				
																										RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION
SUNRISE: 0715					DEC 13					SUNSET: 1652					SUNRISE: 0719					DEC 19					SUNSET: 1654				
01	BKN	300	10.00		29	22	27	75	0	00	29.95	30.14	01	OVC	090	10.00		36	24	32	62	0	00	29.94	30.14				
04	BKN	240	10.00		32	24	29	73	0	00	29.93	30.12	04	OVC	110	10.00		35	24	31	64	0	00	29.93	30.13				
07	SCT	300	9.00		28	23	26	81	0	00	29.93	30.13	07	FEW	090	10.00		33	22	29	64	3	02	29.97	30.17				
10	BKN	300	10.00		42	28	36	58	5	16	29.95	30.15	10	CLR	NC	10.00		40	23	34	51	9	02	30.02	30.21				
13	BKN	300	10.00		52	24	41	34	3	31	29.87	30.07	13	FEW	250	10.00		45	24	37	44	9	32	29.96	30.16				
16	BKN	300	10.00		53	25	41	34	3	34	29.83	30.02	16	BKN	250	10.00		45	24	37	44	6	31	29.97	30.17				
19	BKN	300	10.00		42	26	36	53	0	00	29.81	30.01	19	BKN	300	10.00		36	24	32	62	6	03	30.03	30.23				
22	FEW	300	10.00		36	27	33	70	0	00	29.83	30.03	22	BKN	300	10.00		34	23	30	64	9	36	30.06	30.26				
SUNRISE: 0716					DEC 14					SUNSET: 1652					SUNRISE: 0719					DEC 20					SUNSET: 1654				
01	CLR	NC	9.00		33	26	30	75	0	00	29.83	30.03	01	FEW	300	10.00		32	21	28	64	6	03	30.07	30.26				
04	FEW	150	10.00		29	24	27	82	0	00	29.81	30.01	04	SCT	300	10.00		30	22	27	72	3	35	30.08	30.27				
07	CLR	NC	10.00		30	24	28	79	3	23	29.83	30.03	07	BKN	300	10.00		32	23	29	69	0	00	30.12	30.32				
10	CLR	NC	10.00		43	29	37	58	3	20	29.86	30.05	10	OVC	250	10.00		35	22	30	59	7	05	30.14	30.34				
13	CLR	NC	10.00		55	31	44	40	3	29	29.80	30.00	13	OVC	100	10.00		38	20	32	48	0	00	30.10	30.30				
16	CLR	NC	10.00		59	32	47	36	0	00	29.78	29.98	16	BKN	110	10.00		39	20	32	46	0	00	30.08	30.28				
19	CLR	NC	10.00		43	32	38	65	0	00	29.81	30.00	19	OVC	090	10.00		37	22	32	54	5	05	30.11	30.31				
22	CLR	NC	10.00		45	34	40	66	6	05	29.86	30.06	22	OVC	085	10.00		36	23	31	59	0	00	30.12	30.32				
SUNRISE: 0716					DEC 15					SUNSET: 1652					SUNRISE: 0720					DEC 21					SUNSET: 1655				
01	CLR	NC	10.00		36	30	34	79	0	00	29.86	30.06	01	OVC	075	10.00		36	25	32	64	0	00	30.11	30.31				
04	CLR	NC	10.00		34	30	32	85	0	00	29.88	30.08	04	OVC	070	10.00		36	26	32	67	0	00	30.12	30.31				
07	CLR	NC	9.00		35	31	33	85	0	00	29.92	30.12	07	OVC	065	10.00		36	26	32	67	0	00	30.14	30.33				
10	FEW	100	10.00		50	38	44	63	0	00	29.95	30.15	10	OVC	065	10.00		39	25	34	57	3	06	30.18	30.37				
13	SCT	060	10.00		56	39	48	53	0	00	29.90	30.09	13	BKN	060	10.00		45	25	37	46	5	VR	30.13	30.33				
16	FEW	250	10.00		56	39	48	53	7	17	29.88	30.08	16	FEW	250	10.00		45	26	37	48	0	00	30.10	30.29				
19	FEW	250	10.00		46	37	42	71	0	00	29.90	30.10	19	FEW	250	10.00		39	26	34	60	5	08	30.12	30.32				
22	SCT	250	10.00		41	36	39	82	3	14	29.90	30.10	22	OVC	250	9.00		36	28	33	73	6	06	30.12	30.31				
SUNRISE: 0717					DEC 16					SUNSET: 1653					SUNRISE: 0721					DEC 22					SUNSET: 1655				
01	FEW	250	6.00	BR	39	35	37	86	5	13	29.89	30.09	01	OVC	250	9.00		35	28	32	76	5	05	30.11	30.31				
04	SCT	250	5.00	BR	39	35	37	86	0	00	29.86	30.06	04	OVC	043	10.00		37	28	34	70	7	03	30.07	30.27				
07	BKN	250	2.00	BR	36	33	35	89	7	14	29.84	30.03	07	OVC	080	6.00	-RA BR	37	29	34	73	8	02	30.07	30.27				
10	OVC	250	6.00	HZ	46	39	43	77	7	17	29.82	30.02	10	OVC	034	2.00	-RA BR	37	33	35	86	7	35	30.08	30.27				
13	OVC	070	1.25	RA BR	47	44	46	90	6	16	29.75	29.95	13	OVC	005	1.50	-RA BR	39	36	38	89	9	01	29.97	30.16				
16	OVC	013	2.00	BR	49	46	48	90	3	17	29.70	29.90	16	OVC	005	2.00	BR	38	35	37	89	8	35	29.92	30.12				
19	OVC	005	3.00	BR	50	47	48	89	7	23	29.73	29.92	19	OVC	005	4.00	BR	37	34	36	89	8	35	29.92	30.12				
22	OVC	009	6.00	BR	49	45	47	86	6	27	29.74	29.93	22	OVC	003	2.00	-RA BR	37	34	36	89	8	35	29.89	30.09				
SUNRISE: 0718					DEC 17					SUNSET: 1653					SUNRISE: 0721					DEC 23					SUNSET: 1656				
01	FEW	005	1.50	BR	42	40	41	92	0	00	29.73	29.93	01	OVC	004	1.50	-DZ BR	37	34	36	89	9	34	29.86	30.05				
04	CLR	NC	5.00	BR	43	40	42	89	6	28	29.77	29.96	04	OVC	003	1.00	-DZ BR	38	36	37	93	3	34	29.82	30.02				
07	FEW	250	10.00		43	38	41	82	7	25	29.82	30.01	07	OVC	002	0.25	FG	38	36	37	93	0	00	29.87	30.07				
10	FEW	250	10.00		52	41	47	66	7	25	29.86	30.06	10	OVC	002	0.75	BR	40	38	39	93	0	00	29.91	30.10				
13	BKN	250	10.00		59	37	48	44	10	26	29.81	30.01	13	OVC	016	1.50	BR	44	40	42	85	5	22	29.87	30.07				
16	BKN	250	10.00		57	32	46	39	16	29	29.79	29.98	16	OVC	030	3.00	HZ	47	42	45	83	3	30	29.87	30.06				
19	BKN	300	10.00		49	34	42	56	8	25	29.83	30.03	19	OVC	003	2.00	BR	46	42	44	86	3	03	29.85	30.05				
22	BKN	300	10.00		42	31	37	65	5	01	29.86	30.06	22	OVC	002	0.25	-RA FG	45	43	44	93	0	00	29.87	30.06				
SUNRISE: 0718					DEC 18					SUNSET: 1653					SUNRISE: 0721					DEC 24					SUNSET: 1656				
01	FEW	250	10.00		38	26	33	62	5	01	29.90	30.09	01	OVC	024	1.50	-RA BR	46	43	45	89	0	00	29.82	30.02				
04	FEW	250	10.00		34	26	31	73	0	00	29.93	30.12	04	OVC	003	3.00	-RA BR	47	44	46	90	5	08	29.72	29.92				
07	BKN	250	10.00		31	24	29	76	3	34	29.98	30.17	07	VV	002	0.12	-RA FG	47	45	46	93	0	00	29.68	29.88				
10	BKN	250	10.00		40	22	33	49	13	36	30.00	30.20	10	OVC	008	1.00	-RA BR	49	47	48	93	0	00	29.65	29.84				
13	BKN	250	10.00		47	21	37	36	11	34	29.93	30.13	13	OVC	002	0.50	-RA BR	54	52	53	93	7	27	29.54	29.73				
16	BKN	250	10.00		45	21	36	39	9	35	29.91	30.10	16	OVC	002	1.00	BR	56	54	55	93	0	00	29.49	29.69				
19	BKN	300	10.00		38	22	32	52	0	00	29.93	30.12	19	VV	002	0.25	FG	56	54	55	93	3	10	29.47	29.65				
22	OVC	110	10.00		37	23	32	57	3	06	29.91	30.11	22	OVC	140	10.00		65	62	63	90	13	19	29.44	29.62				

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
DECEMBER 2014

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: 0722 DEC 25					SUNSET: 1657							
01	OVC	140	10.00		65	61	63	87	11	19	29.44	29.63
04	OVC	110	10.00	-RA	60	55	57	84	6	18	29.47	29.65
07	OVC	160	10.00		56	44	50	65	18	29	29.61	29.80
10	SCT	220	10.00		55	36	46	49	16	29	29.75	29.94
13	SCT	060	10.00		58	31	46	36	15	27	29.80	30.00
16	CLR	NC	10.00		57	30	45	36	10	29	29.91	30.10
19	CLR	NC	10.00		43	33	39	68	0	00	29.96	30.15
22	CLR	NC	10.00		43	31	38	63	5	30	30.04	30.23
SUNRISE: 0722 DEC 26					SUNSET: 1657							
01	CLR	NC	10.00		34	29	32	82	0	00	30.06	30.25
04	CLR	NC	10.00		33	29	31	85	0	00	30.07	30.27
07	CLR	NC	10.00		33	28	31	82	0	00	30.13	30.33
10	SCT	300	10.00		46	34	41	63	3	13	30.16	30.36
13	BKN	300	10.00		54	33	45	45	6	20	30.11	30.30
16	SCT	300	10.00		56	32	45	40	0	00	30.08	30.28
19	FEW	250	10.00		44	34	40	68	0	00	30.11	30.31
22	SCT	250	10.00		35	30	33	82	0	00	30.12	30.31
SUNRISE: 0723 DEC 27					SUNSET: 1658							
01	BKN	250	10.00		33	29	31	85	0	00	30.09	30.28
04	FEW	250	10.00		36	31	34	82	0	00	30.08	30.27
07	FEW	250	10.00		31	27	30	85	5	20	30.11	30.31
10	SCT	210	10.00		47	37	43	69	6	19	30.12	30.32
13	BKN	300	10.00		62	37	50	40	9	19	30.03	30.23
16	BKN	300	10.00		63	37	50	38	7	16	30.01	30.20
19	BKN	230	10.00		51	37	45	59	6	17	30.02	30.22
22	BKN	150	10.00		51	38	45	61	6	18	29.99	30.19
SUNRISE: 0723 DEC 28					SUNSET: 1659							
01	BKN	100	10.00		51	39	45	64	8	19	29.91	30.10
04	SCT	120	10.00		48	38	43	68	8	19	29.83	30.03
07	BKN	250	10.00		54	38	46	55	8	23	29.83	30.02
10	BKN	220	10.00		58	41	50	53	13	22	29.83	30.02
13	OVC	150	10.00		63	46	54	54	10	23	29.77	29.97
16	OVC	060	10.00	-RA	61	46	53	58	6	25	29.80	30.00
19	OVC	080	9.00		53	51	52	93	3	13	29.82	30.01
22	BKN	120	8.00		53	50	51	89	0	00	29.86	30.06
SUNRISE: 0723 DEC 29					SUNSET: 1659							
01	OVC	150	10.00	-RA	51	47	49	86	9	01	29.89	30.08
04	OVC	011	8.00	-RA	48	44	46	86	9	04	29.91	30.11
07	OVC	026	7.00	-RA	43	38	41	82	8	03	29.99	30.18
10	OVC	030	5.00	-RA BR	42	38	40	85	6	06	30.04	30.24
13	OVC	032	10.00	-RA	43	38	41	82	10	36	29.98	30.17
16	OVC	028	10.00		43	36	40	76	6	03	29.98	30.18
19	OVC	031	10.00		42	35	39	76	8	01	30.03	30.22
22	OVC	043	9.00		39	35	37	86	7	36	30.06	30.26
SUNRISE: 0723 DEC 30					SUNSET: 1700							
01	OVC	040	10.00	-RA	39	35	37	86	5	35	30.06	30.25
04	OVC	043	10.00		39	33	37	79	3	04	30.09	30.28
07	OVC	090	10.00		39	29	35	67	9	36	30.13	30.33
10	OVC	080	10.00		40	29	36	65	8	01	30.21	30.41
13	BKN	100	10.00		42	24	35	49	6	VR	30.17	30.37
16	FEW	042	10.00		43	21	35	42	5	35	30.19	30.39
19	CLR	NC	10.00		37	21	31	52	0	00	30.24	30.43
22	CLR	NC	10.00		30	22	27	72	0	00	30.25	30.45

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: 0724 DEC 31					SUNSET: 1701							
01	CLR	NC	10.00		27	22	25	81	0	00	30.24	30.44
04	CLR	NC	10.00		24	19	22	81	0	00	30.23	30.43
07	BKN	039	10.00		25	20	23	81	3	18	30.23	30.43
10	BKN	300	10.00		35	22	30	59	10	34	30.27	30.47
13	BKN	300	10.00		41	16	32	36	3	VR	30.19	30.38
16	SCT	300	10.00		43	11	32	27	6	31	30.16	30.36
19	CLR	NC	10.00		32	17	27	54	0	00	30.15	30.35
22	CLR	NC	10.00		32	16	27	52	6	24	30.12	30.32

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

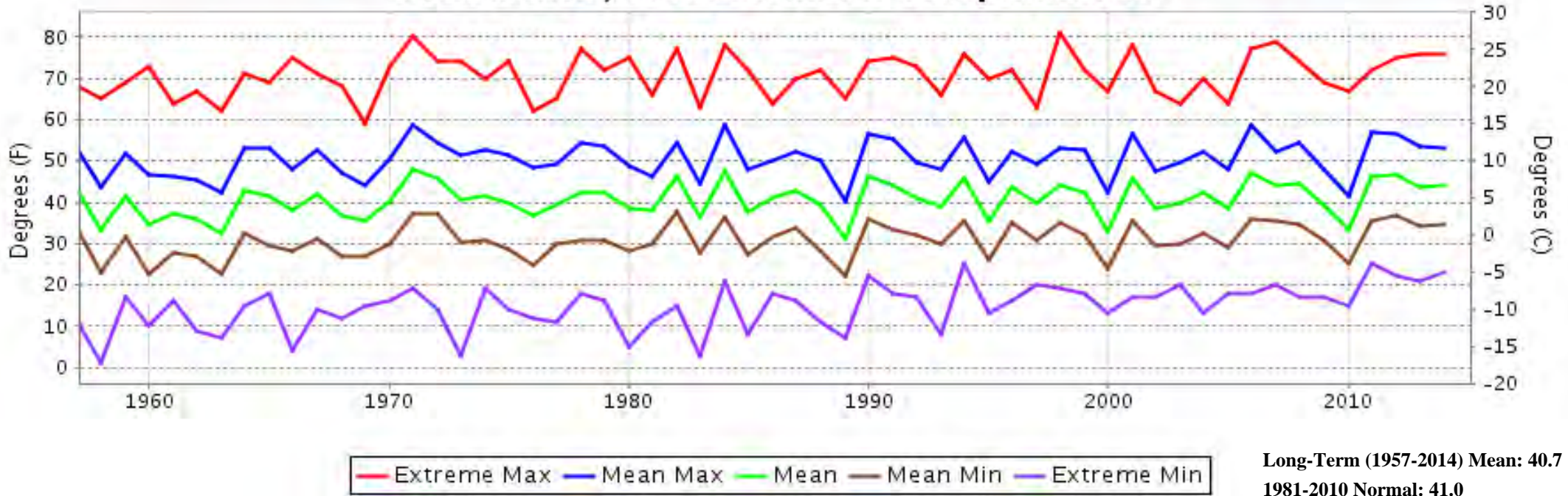
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

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

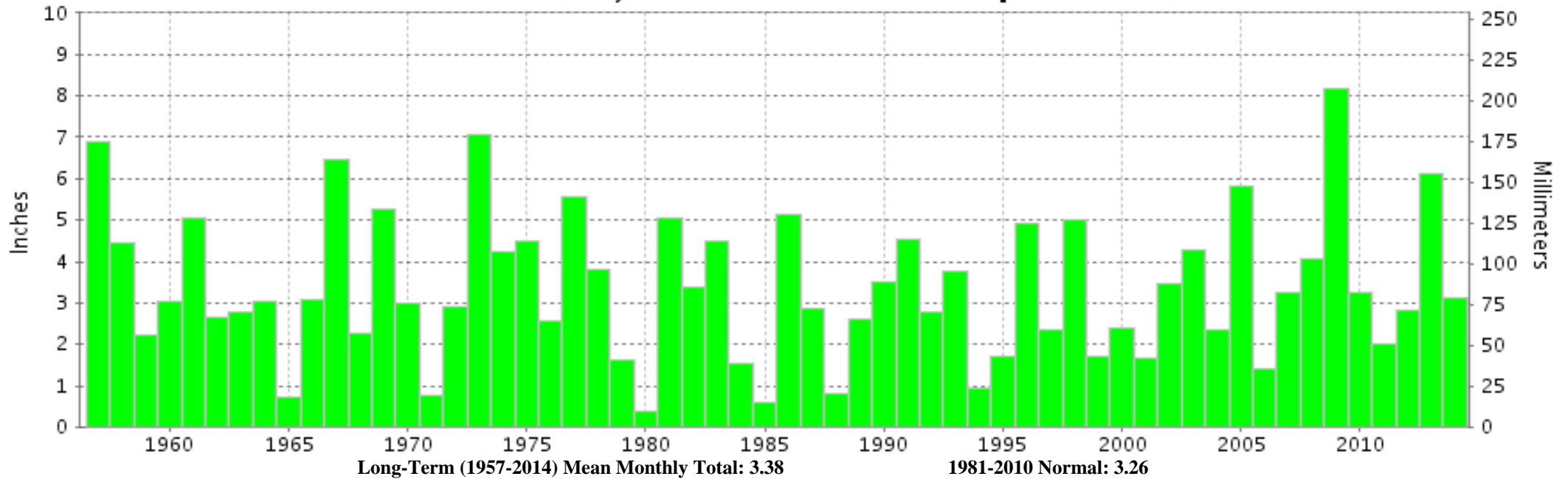
SUMMARY BY HOUR

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	40	33	37	76	29.98	30.17	8.45	5	3	35
02	40	32	37	76	29.98	30.17	8.55	6	3	34
03	40	32	37	75	29.98	30.18	8.52	6	3	34
04	39	32	36	76	29.97	30.17	8.94	5	3	34
05	39	31	36	75	29.97	30.17	8.58	5	3	33
06	38	31	36	76	29.98	30.18	8.49	6	2	34
07	38	31	35	76	30.00	30.19	8.53	6	3	32
08	39	31	36	75	30.01	30.20	8.04	6	3	32
09	42	32	38	71	30.01	30.21	8.38	7	3	32
10	45	33	40	65	30.02	30.22	8.33	8	3	32
11	47	32	41	60	30.01	30.21	8.42	8	2	32
12	49	33	42	58	29.99	30.18	8.38	9	4	30
13	50	33	43	56	29.96	30.16	8.25	8	4	30
14	50	33	43	55	29.95	30.14	8.50	7	4	31
15	51	33	43	54	29.94	30.14	8.47	8	4	30
16	50	33	43	55	29.95	30.14	8.41	6	4	31
17	48	33	42	59	29.95	30.15	8.40	6	2	34
18	46	33	41	65	29.96	30.15	8.48	5	2	35
19	44	33	40	67	29.97	30.16	8.45	5	3	35
20	43	34	40	70	29.97	30.17	8.69	5	3	35
21	43	34	39	71	29.98	30.17	8.88	5	3	34
22	42	33	38	72	29.98	30.18	8.88	6	2	34
23	41	33	38	74	29.99	30.18	8.48	5	2	35
24	40	32	37	74	29.98	30.18	8.44	5	3	36

RICHMOND, VA DECEMBER Temperatures



RICHMOND, VA DECEMBER Precipitation





**DECEMBER 2014
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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Asheville, NC 28801-5001