



MARCH 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			
20	21	22	23	24																				
01	52	22	37	-6	18	31	28	0		0		0.0	0.00	30.13	30.31	1.5	21	2.7	15	20	12	21	01	
02	73	34	54	11	36	44	11	0	RA BR HZ	0		0.0	0.05	29.88	30.05	2.4	23	8.9	25	22	21	24	02	
03	41	15	28	-15	20	25	37	0	RA SN PL FG+ FZFG BR HZ	0		3.0	0.50	29.93	30.17	13.6	01	13.9	30	01	24	01	03	
04	34	11*	23*	-21	8	20	42	0		2		0.0	0.00	30.14	30.34	5.8	36	6.4	17	02	14	01	04	
05	43	29	36	-8	15	28	29	0		1		0.0	0.00	30.04	30.25	6.5	02	6.7	16	02	13	03	05	
06	39	29	34	-10	20	29	31	0		T		0.0	0.00	30.22	30.42	11.8	04	12.0	25	05	20	04	06	
07	40	32	36	-9	30	33	29	0	RA FZRA SN BR	0		0.0	0.19	29.89	30.05	14.5	01	14.7	25	02	21	01	07	
08	68	31	50	5	33	41	15	0	BR HZ	0		0.0	0.00	29.77	29.96	3.8	26	5.9	17	22	14	35	08	
09	61	38	50	5	33	43	15	0	HZ	0		0.0	0.00	29.82	30.02	2.7	36	6.1	17	36	14	33	09	
10	65	32	49	4	28	40	16	0	HZ	0		0.0	0.00	29.70	29.86	5.1	21	6.2	20	23	16	22	10	
11	80*	53	67*	21	34	50	0	2		0		0.0	0.00	29.52	29.70	4.2	25	5.4	17	26	13	27	11	
12	70	41	56	10	43	50	9	0	RA	0		0.0	0.07	29.23	29.41	9.6	24	14.3	46*	29	33*	29	12	
13	42	24	33	-14	1	26	32	0		0		0.0	0.00	29.68	29.95	15.2	31	15.4	39	30	31	31	13	
14	62	23	43	-4	14	34	22	0		0		0.0	0.00	29.98	30.17	10.5	19	10.8	30	20	24	20	14	
15	73	48	61	13	27	46	4	0		0		0.0	0.00	29.76	29.96	10.3	24	12.2	33	22	24	25	15	
16	50	33	42	-6	28	37	23	0	RA DZ SN PL FG BR	0		T	0.28	29.89	30.08	9.6	04	9.7	28	05	21	04	16	
17	33	30	32	-16	26	29	33	0	RA DZ FZRA FZDZ SN PL BR UP	T		0.6	0.27	29.80	30.00	11.7	02	11.8	28	01	20	02	17	
18	39	30	35	-13	29	33	30	0	RA DZ FZRA FZDZ BR	0		0.0	0.09	29.93	30.15	9.9	01	10.1	22	02	17	03	18	
19	48	36	42	-7	37	39	23	0	RA DZ BR	0		0.0	0.03	29.92	30.09	1.8	32	5.9	16	22	12	21	19	
20	66	43	55	6	29	44	10	0	BR HZ	0		0.0	0.00	29.72	29.94	8.7	29	9.8	30	29	23	31	20	
21	70	34	52	3	27	42	13	0		0		0.0	0.00	29.86	30.05	4.7	24	6.3	28	28	20	26	21	
22	77	45	61	11	33	48	4	0		0		0.0	0.00	29.75	29.94	9.3	23	11.9	31	26	24	26	22	
23	56	36	46	-4	30	38	19	0	RA BR	0		0.0	0.13	29.86	30.07	7.6	01	8.8	29	02	22	02	23	
24	45	28	37	-13	11	28	28	0		0		0.0	0.00	30.03	30.23	6.5	01	9.6	28	36	22	35	24	
25	50	29	40	-11	28	33	25	0	RA SN BR	0		T	0.13	29.78	29.96	4.5	04	7.6	24	33	20	33	25	
26	43	28	36	-15	13	28	29	0		0		0.0	0.00	29.91	30.16	12.1	31	12.5	35	32	28	32	26	
27	56	21	39	-13	17	32	26	0		0		0.0	0.00	30.20	30.39	7.9	18	8.4	26	19	20	18	27	
28	70	45	58	6	46	52	7	0	RA BR	0		0.0	0.01	29.98	30.15	13.4	20	13.9	35	22	26	22	28	
29	66	59	63	11	60	61	2	0	RA FG+ FG BR	0		0.0	0.98	29.72	29.85	7.6	16	7.8	29	16	22	15	29	
30	64	41	53	0	41	45	12	0	RA DZ BR	0		0.0	0.51	29.46	29.68	13.6	32	15.3	37	34	29	33	30	
31	69	43	56	3	28	44	9	0		0		0.0	0.00	29.80	30.02	12.8	33	13.0	37	33	28	35	31	

56.3		33.6		45.0		☼	27.2		37.8		19.8		0.1		< MONTHLY AVERAGES TOTALS >		3.6		3.24		29.85		30.04		3.1		32		9.8		< MONTHLY AVERAGES	
-3.7		-3.5		-3.6			-----DEPARTURE FROM NORMAL ----->												-0.80		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS										GREATEST 24-HR PRECIPITATION : 0.98 DATE : 29										SEA LEVEL PRESSURE												
MONTHLY					SEASON TO DATE					GREATEST 24-HR SNOWFALL : 3.0 DATE : 03					MAXIMUM : 30.52 DATE 06 TIME 0955																	
TOTAL DEPARTURE					TOTAL DEPARTURE					GREATEST SNOW DEPTH : 2 DATE : 04					MINIMUM : 29.15 DATE 12 TIME 1717																	
HEATING :		613		97		3566		114		NUMBER OF ->		MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 16		PRECIPITATION >= 0.01 INCH: 13																
COOLING :		2		-4		2		-4		THUNDERSTORMS : 0		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH: 8																
												HEAVY FOG : 2				SNOWFALL >= 1.0 INCH : 1																

**MARCH 2014
RICHMOND, VA**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
MARCH 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	0.00	0.00	
02													02			T	0.04	0.01							02	0.05	0.05	
03					T		T	0.08	0.07	0.14	0.10	0.05	03	0.03	0.03	T	T							03	0.50	0.50		
04													04												04	0.00	0.00	
05													05												05	0.00	0.00	
06													06												06	0.00	0.00	
07					0.02	0.03	0.02	0.01				0.01	0.01	07	0.03	0.04	0.02	T	T					07	0.19	0.19		
08													08												08	0.00	0.00	
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12												T	12	0.02	0.02		T		0.01	0.02				12	0.07	0.07		
13													13												13	0.00	0.00	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16													16			T	0.01	0.02	0.02	0.01	0.01	0.06	0.04	0.11	16	0.28	0.28	
17	0.10	0.02	0.01	0.01	0.01	T	T	T	0.01	0.02	0.03	0.01	17	0.02	T	0.01	0.01	T	T	T	T	0.01	T	0.01	17	0.27	0.27	
18	0.02	0.02	0.02	T	T	T	T	T		T	T	0.02	18	T	0.01	T	T	T							18	0.09	0.09	
19													19		T	T	T	0.02	T	T		T	T		19	0.03	0.03	
20													20												20	0.00	0.00	
21													21												21	0.00	0.00	
22													22												22	0.00	0.00	
23													23		0.05	0.08	T	T							23	0.13	0.13	
24													24												24	0.00	0.00	
25													25		T	T	0.01	0.03	0.03	0.04	0.01	0.01			25	0.13	0.13	
26													26												26	0.00	0.00	
27													27												27	0.00	0.00	
28													28												28	0.01	0.01	
29	0.03	0.08	0.04	0.10	0.04	0.01	0.03	0.01	0.03	0.05	0.04	0.03	29	T	T	0.13	0.11	0.07	0.03	0.01	0.01	0.01	0.01	29	0.98	0.98		
30	0.03	0.02		0.20	T		T	T	T	0.01	T	0.06	30	0.02	0.03	0.02	0.04	0.02	0.04	0.01	0.01	T		30	0.51	0.51		
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)	0.08	0.13	0.16	0.18	0.20	0.20	0.20	0.20	0.23	0.25	0.29	0.34
Ending Date	30	30	30	30	30	30	30	03	03	03	03	03
Ending Time (Hr/Min)	0322	0326	0326	0326	0330	0330	0330	1032	1049	1106	1106	1032

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 MARCH 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:MMTS, SRG, Snowboard

Date	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	10.00	10.00
02	3.00	10.00
03	0.25	10.00
04	10.00	10.00
05	10.00	10.00
06	10.00	10.00
07	5.00	10.00
08	6.00	10.00
09	5.00	10.00
10	5.00	10.00
11	10.00	10.00
12	5.00	10.00
13	10.00	10.00
14	10.00	10.00
15	10.00	10.00
16	0.50	10.00
17	1.25	9.00
18	2.00	10.00
19	1.50	10.00
20	5.00	10.00
21	10.00	10.00
22	10.00	10.00
23	3.00	10.00
24	10.00	10.00
25	1.75	10.00
26	10.00	10.00
27	10.00	10.00
28	6.00	10.00
29	0.25	10.00
30	3.00	10.00
31	10.00	10.00
AVGS	6.24	9.97
MINIMUM VISIBILITY (MILES)		
<= .25	<= 3.0	>= 7.0
2	10	14

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

MARCH 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: 0641					MAR 01					SUNSET: 1803					SUNRISE: 0632					MAR 07					SUNSET: 1809				
01	FEW	300	10.00		22	8	18	55	3	07	30.19	30.39	01	OVC	016	10.00		32	25	29	75	14	03	30.07	30.27				
04	OVC	049	10.00		24	13	21	62	0	00	30.16	30.36	04	OVC	014	10.00		33	26	30	75	15	01	29.98	30.18				
07	OVC	300	10.00		26	14	22	60	0	00	30.19	30.38	07	OVC	024	6.00	-FZRA BR	32	28	31	85	17	02	29.93	30.12				
10	FEW	120	10.00		36	17	30	46	0	00	30.20	30.40	10	OVC	012	10.00		35	30	33	82	15	01	29.89	30.09				
13	SCT	120	10.00		46	16	35	30	8	25	30.12	30.32	13	OVC	055	5.00	-RA	37	32	35	82	17	01	29.83	30.03				
16	SCT	300	10.00		52	21	40	30	8	24	30.04	30.24	16	OVC	080	10.00	-RA	38	33	36	83	16	06	29.76	29.96				
19	BKN	095	10.00		47	25	38	42	6	15	30.03	30.22	19	OVC	090	10.00		39	32	36	76	13	36	29.74	29.94				
22	OVC	085	10.00		45	27	38	49	0	00	30.03	30.23	22	OVC	170	10.00		39	29	35	67	15	35	29.75	29.94				
SUNRISE: 0640					MAR 02					SUNRISE: 1804					SUNRISE: 0631					MAR 08					SUNSET: 1810				
01	FEW	080	10.00		39	26	34	60	6	18	30.02	30.22	01	SCT	014	10.00		37	30	34	76	10	34	29.75	29.94				
04	CLR	NC	10.00		36	28	33	73	5	16	29.94	30.14	04	CLR	NC	8.00		32	26	30	79	6	31	29.77	29.97				
07	BKN	300	10.00		36	30	34	79	8	20	29.95	30.14	07	FEW	300	6.00	BR	31	26	29	82	3	28	29.81	30.01				
10	BKN	300	10.00		57	35	47	44	7	23	29.92	30.11	10	BKN	300	10.00		47	31	40	54	3	17	29.83	30.03				
13	SCT	300	10.00		71	39	55	31	16	23	29.79	29.98	13	SCT	300	10.00		61	35	49	38	7	VR	29.77	29.96				
16	OVC	250	9.00	-RA	69	44	56	41	15	26	29.76	29.95	16	BKN	300	10.00		67	34	51	30	7	23	29.72	29.91				
19	OVC	065	7.00		46	41	44	83	10	02	29.80	29.99	19	BKN	300	10.00		54	37	46	53	8	21	29.74	29.93				
22	OVC	150	6.00	HZ	44	39	42	83	7	03	29.80	29.99	22	BKN	140	10.00		52	37	45	57	6	23	29.75	29.94				
SUNRISE: 0638					MAR 03					SUNSET: 1805					SUNRISE: 0630					MAR 09					SUNSET: 1811				
01	OVC	007	4.00	BR	41	37	39	86	8	04	29.78	29.97	01	BKN	110	10.00		50	37	44	61	0	00	29.74	29.93				
04	OVC	010	5.00	HZ	39	34	37	82	9	02	29.80	29.99	04	OVC	095	10.00		53	35	45	51	7	30	29.73	29.92				
07	OVC	020	7.00	-RA	36	31	34	82	15	01	29.86	30.06	07	BKN	150	10.00		50	34	43	54	9	02	29.83	30.02				
10	VV	005	0.25	SN FZFG	29	25	28	85	14	03	29.96	30.15	10	SCT	250	5.00	HZ	54	35	45	49	3	34	29.88	30.07				
13	OVC	055	2.50	-SN	23	17	21	78	16	01	29.99	30.19	13	FEW	047	8.00		57	34	46	42	8	28	29.87	30.06				
16	OVC	033	1.25	-SN	21	15	19	78	11	01	30.03	30.23	16	FEW	060	9.00		61	34	48	36	7	03	29.83	30.02				
19	BKN	100	10.00		21	12	19	68	13	36	30.11	30.31	19	FEW	250	10.00		50	29	41	44	7	08	29.83	30.02				
22	SCT	120	10.00		18	4	15	54	11	36	30.15	30.35	22	FEW	250	10.00		41	29	36	62	5	14	29.86	30.05				
SUNRISE: 0637					MAR 04					SUNSET: 1806					SUNRISE: 0628					MAR 10					SUNSET: 1811				
01	CLR	NC	10.00		15	4	13	61	5	35	30.14	30.34	01	FEW	250	10.00		39	25	34	57	5	10	29.83	30.03				
04	CLR	NC	10.00		11	3	9	70	7	35	30.15	30.35	04	FEW	250	8.00		37	29	34	73	5	19	29.76	29.95				
07	OVC	250	10.00		13	3	11	64	6	01	30.18	30.39	07	BKN	250	6.00	HZ	34	30	32	85	0	00	29.75	29.95				
10	OVC	250	10.00		23	7	19	50	9	01	30.22	30.42	10	BKN	250	10.00		55	29	44	37	7	28	29.74	29.93				
13	OVC	250	10.00		30	9	24	41	7	02	30.14	30.35	13	BKN	250	10.00		56	27	44	33	8	21	29.68	29.88				
16	OVC	250	10.00		33	9	26	36	3	VR	30.08	30.29	16	BKN	250	10.00		63	25	46	24	11	22	29.60	29.79				
19	OVC	039	10.00		31	12	25	45	7	01	30.10	30.30	19	BKN	300	10.00		53	28	42	38	8	18	29.56	29.75				
22	OVC	031	10.00		31	12	25	45	3	04	30.07	30.27	22	BKN	300	10.00		53	28	42	38	7	19	29.56	29.75				
SUNRISE: 0635					MAR 05					SUNSET: 1807					SUNRISE: 0627					MAR 11					SUNSET: 1812				
01	OVC	025	10.00		30	15	25	54	6	01	30.03	30.23	01	SCT	250	10.00		59	31	46	35	10	25	29.53	29.72				
04	OVC	023	10.00		30	15	25	54	7	01	30.01	30.21	04	SCT	250	10.00		55	34	45	45	7	25	29.52	29.71				
07	OVC	033	10.00		29	14	24	54	7	01	30.05	30.24	07	BKN	250	10.00		54	35	45	49	5	26	29.54	29.74				
10	OVC	250	10.00		34	15	28	46	3	01	30.04	30.24	10	SCT	250	10.00		69	34	52	27	7	27	29.57	29.76				
13	OVC	250	10.00		41	17	33	38	9	01	30.03	30.22	13	SCT	250	10.00		76	32	54	20	3	VR	29.52	29.71				
16	BKN	250	10.00		42	15	33	33	11	02	30.00	30.20	16	SCT	250	10.00		79	30	55	17	0	00	29.45	29.64				
19	FEW	250	10.00		38	16	31	41	5	05	30.09	30.29	19	FEW	250	10.00		64	34	50	33	7	18	29.47	29.67				
22	CLR	NC	10.00		34	13	27	42	0	00	30.15	30.35	22	CLR	NC	10.00		58	38	48	48	0	00	29.48	29.67				
SUNRISE: 0634					MAR 06					SUNSET: 1808					SUNRISE: 0625					MAR 12					SUNSET: 1813				
01	CLR	NC	10.00		32	15	27	50	10	02	30.17	30.37	01	CLR	NC	10.00		54	36	46	51	6	20	29.45	29.64				
04	CLR	NC	10.00		30	17	26	58	9	03	30.19	30.38	04	SCT	250	10.00		50	38	44	63	5	18	29.36	29.54				
07	BKN	250	10.00		29	16	25	58	8	03	30.28	30.47	07	OVC	150	8.00		53	41	47	64	5	19	29.33	29.52				
10	BKN	250	10.00		34	19	29	54	11	05	30.32	30.52	10	OVC	110	7.00		65	47	55	52	17	19	29.26	29.46				
13	OVC	032	10.00		38	23	33	55	14	06	30.25	30.45	13	OVC	095	5.00	-RA	63	55	58	76	10	21	29.13	29.31				
16	OVC	060	10.00		36	24	32	62	15	03	30.20	30.40	16	OVC	031	10.00		67	55	60	66	20	21	29.00	29.18				
19	OVC	033	10.00		34	22	30	61	9	05	30.21	30.40	19	BKN	110	10.00		64	53	58	68	18	26	29.03	29.21				
22	OVC	032	10.00		32	24	29	73	13	03	30.16	30.36	22	FEW	150	10.00		49	25	39	39	18	31	29.26	29.45				

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

MARCH 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: 0624 MAR 13 SUNSET: 1814																										
01	CLR	NC	10.00		39	18	32	43	25	31	29.41	29.59	01	OVC	014	10.00			38	30	35	73	6	01	30.00	30.20
04	CLR	NC	10.00		36	16	29	44	16	30	29.48	29.68	04	OVC	012	10.00			37	31	35	79	7	36	30.01	30.21
07	CLR	NC	10.00		32	1	24	26	26	31	29.62	29.81	07	OVC	010	1.50	-DZ BR		37	33	35	86	3	02	30.01	30.21
10	CLR	NC	10.00		34	-6	24	17	23	32	29.74	29.93	10	OVC	004	3.00	-DZ BR		38	35	37	89	6	35	29.99	30.18
13	CLR	NC	10.00		39	-5	28	15	16	31	29.79	29.98	13	OVC	006	4.00	BR		42	38	40	85	5	34	29.91	30.11
16	CLR	NC	10.00		41	-8	29	12	22	33	29.83	30.03	16	OVC	006	1.50	-DZ BR		44	40	42	85	7	27	29.83	30.02
19	CLR	NC	10.00		36	-4	26	18	7	32	29.93	30.13	19	OVC	003	1.50	BR		42	39	41	89	5	17	29.76	29.96
22	CLR	NC	10.00		30	5	23	34	0	00	30.03	30.22	22	OVC	005	1.50	-DZ BR		46	43	45	89	10	21	29.74	29.94
SUNRISE: 0622 MAR 14 SUNSET: 1815																										
01	CLR	NC	10.00		24	8	20	50	3	18	30.05	30.25	01	OVC	010	6.00	BR		48	44	46	86	10	22	29.68	29.88
04	FEW	250	10.00		25	9	21	50	3	12	30.06	30.25	04	OVC	300	6.00	HZ		46	41	44	83	5	26	29.69	29.88
07	SCT	080	10.00		27	16	24	63	6	19	30.10	30.30	07	BKN	270	6.00	BR		45	41	43	86	6	29	29.73	29.93
10	SCT	250	10.00		44	12	33	27	10	19	30.09	30.29	10	FEW	250	10.00			59	34	47	39	11	29	29.77	29.96
13	FEW	250	10.00		57	11	40	16	16	19	30.01	30.20	13	FEW	050	10.00			64	27	47	25	14	31	29.73	29.93
16	BKN	300	10.00		60	15	43	17	16	20	29.89	30.09	16	FEW	050	10.00			64	17	45	16	14	29	29.71	29.90
19	OVC	300	10.00		54	17	40	23	11	19	29.87	30.06	19	FEW	250	10.00			59	15	42	18	7	28	29.75	29.94
22	OVC	160	10.00		54	17	40	23	15	20	29.83	30.02	22	CLR	NC	10.00			50	20	38	30	8	33	29.85	30.04
SUNRISE: 0621 MAR 15 SUNSET: 1816																										
01	OVC	150	10.00		54	25	42	33	17	21	29.79	29.98	01	SCT	220	10.00			42	26	36	53	0	00	29.86	30.06
04	OVC	100	10.00		54	30	44	40	17	21	29.73	29.93	04	FEW	140	10.00			36	26	32	67	0	00	29.87	30.06
07	FEW	100	10.00		51	30	42	44	10	23	29.75	29.94	07	FEW	085	10.00			38	25	33	60	0	00	29.91	30.10
10	FEW	100	10.00		65	29	49	26	16	24	29.76	29.95	10	CLR	NC	10.00			59	25	44	27	10	26	29.92	30.11
13	SCT	075	10.00		71	29	51	21	17	27	29.73	29.93	13	FEW	300	10.00			65	26	48	23	5	VR	29.86	30.06
16	SCT	300	10.00		72	25	51	17	16	28	29.70	29.89	16	FEW	080	10.00			70	26	50	19	10	26	29.81	30.00
19	FEW	300	10.00		66	22	47	19	7	28	29.76	29.96	19	FEW	090	10.00			59	29	46	32	9	21	29.83	30.02
22	CLR	NC	10.00		52	29	42	41	0	00	29.85	30.05	22	CLR	NC	10.00			49	31	41	50	3	08	29.85	30.04
SUNRISE: 0619 MAR 16 SUNSET: 1817																										
01	FEW	250	10.00		47	28	39	48	0	00	29.88	30.07	01	OVC	200	10.00			48	33	41	56	8	18	29.82	30.02
04	SCT	250	10.00		45	25	37	46	7	05	29.89	30.08	04	OVC	200	10.00			53	33	44	47	13	20	29.78	29.97
07	SCT	250	10.00		44	26	37	49	8	04	29.93	30.12	07	OVC	200	10.00			53	32	44	45	15	20	29.77	29.96
10	OVC	250	10.00		48	27	39	44	14	04	29.96	30.15	10	OVC	250	10.00			66	31	50	27	14	23	29.76	29.95
13	OVC	200	10.00		49	28	40	44	10	05	29.93	30.12	13	OVC	250	10.00			75	32	54	21	16	25	29.70	29.89
16	OVC	060	10.00		45	21	36	39	17	04	29.88	30.08	16	OVC	250	10.00			73	33	53	23	13	25	29.70	29.89
19	OVC	040	6.00	-PLRA BR	37	31	35	79	9	06	29.82	30.02	19	BKN	250	10.00			65	36	51	34	6	22	29.72	29.91
22	OVC	015	3.00	-RA BR	35	31	33	85	9	04	29.81	30.01	22	BKN	090	10.00			64	36	50	35	7	28	29.76	29.95
SUNRISE: 0618 MAR 17 SUNSET: 1818																										
01	OVC	016	1.25	-PL BR	33	29	31	85	15	04	29.78	29.98	01	SCT	085	10.00			53	31	43	43	8	36	29.80	29.99
04	OVC	024	2.50	-FZRAPL BR	31	27	30	85	15	02	29.76	29.96	04	FEW	085	10.00			50	28	41	43	13	03	29.83	30.02
07	OVC	026	7.00	-SN	30	25	28	82	11	01	29.77	29.97	07	BKN	300	9.00			45	28	38	52	13	01	29.89	30.08
10	OVC	014	1.75	-PLSN BR	30	26	29	85	9	01	29.80	30.00	10	OVC	250	9.00			47	27	39	46	10	04	29.90	30.10
13	OVC	015	1.75	-SN BR	31	26	29	82	10	01	29.82	30.02	13	OVC	075	10.00			47	26	39	44	13	33	29.88	30.08
16	OVC	034	5.00	-SN BR	31	26	29	82	9	01	29.81	30.01	16	OVC	012	3.00	-RA BR		39	35	37	86	3	36	29.85	30.04
19	OVC	013	9.00		30	25	28	82	10	02	29.83	30.03	19	BKN	070	4.00	BR		39	35	37	86	0	00	29.88	30.08
22	OVC	009	7.00	-FZRA	30	25	28	82	11	03	29.87	30.06	22	FEW	012	3.00	BR		38	34	36	86	5	29	29.95	30.14
SUNRISE: 0616 MAR 18 SUNSET: 1819																										
01	OVC	008	5.00	-FZRA BR	30	26	29	85	9	01	29.88	30.08	01	FEW	070	10.00			35	17	29	48	14	36	30.01	30.20
04	OVC	016	8.00	-FZRA	30	26	29	85	10	35	29.86	30.06	04	CLR	NC	10.00			31	12	25	45	16	01	30.04	30.24
07	OVC	060	9.00		31	26	29	82	11	01	29.90	30.09	07	FEW	045	10.00			29	10	24	45	13	35	30.12	30.32
10	OVC	014	2.00	-DZ BR	34	30	32	85	11	01	29.94	30.14	10	CLR	NC	10.00			35	9	27	34	14	02	30.14	30.33
13	OVC	016	3.00	-RA BR	37	32	35	82	15	36	29.96	30.16	13	FEW	250	10.00			41	8	31	25	9	35	30.05	30.25
16	OVC	014	10.00		38	33	36	83	11	02	29.97	30.17	16	FEW	250	10.00			44	6	32	21	7	31	29.98	30.17
19	OVC	042	10.00		39	29	35	67	7	03	30.01	30.21	19	SCT	250	10.00			39	11	30	31	3	11	29.97	30.17
22	OVC	021	10.00		39	30	35	70	7	03	30.02	30.21	22	FEW	250	10.00			32	21	28	64	8	12	29.98	30.18

OBSERVATIONS AT 3-HOURLY INTERVALS

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: 0606					MAR 25					SUNSET: 1825			
01	FEW	210	10.00		30	21	27	69	7	12	29.94	30.14	
04	OVC	220	10.00		30	23	28	75	3	09	29.88	30.07	
07	OVC	048	10.00		33	25	30	72	5	09	29.87	30.07	
10	OVC	090	10.00		41	29	36	62	5	09	29.82	30.01	
13	BKN	090	10.00		47	27	39	46	7	09	29.69	29.88	
16	OVC	013	2.50	-RA BR	38	34	36	86	8	07	29.62	29.82	
19	OVC	005	2.00	-RASN BR	35	32	34	89	10	36	29.65	29.85	
22	OVC	018	9.00		35	31	33	85	11	33	29.70	29.90	
SUNRISE: 0604					MAR 26					SUNSET: 1826			
01	FEW	012	10.00		32	28	31	85	9	32	29.73	29.93	
04	SCT	080	10.00		31	24	29	76	11	30	29.78	29.98	
07	FEW	055	10.00		31	15	26	52	13	30	29.88	30.08	
10	SCT	060	10.00		36	11	28	35	23	32	29.97	30.17	
13	SCT	065	10.00		40	8	30	27	15	31	29.98	30.18	
16	CLR	NC	10.00		43	7	32	22	17	32	29.99	30.18	
19	CLR	NC	10.00		38	5	28	25	5	31	30.06	30.26	
22	CLR	NC	10.00		33	11	26	40	3	36	30.14	30.34	
SUNRISE: 0603					MAR 27					SUNSET: 1827			
01	CLR	NC	10.00		29	11	24	47	0	00	30.20	30.40	
04	CLR	NC	10.00		26	15	23	63	3	24	30.22	30.42	
07	BKN	300	10.00		25	16	22	69	0	00	30.27	30.46	
10	OVC	300	10.00		40	14	31	35	11	18	30.31	30.50	
13	OVC	300	10.00		50	13	37	22	10	17	30.23	30.42	
16	SCT	250	10.00		54	16	40	22	14	19	30.14	30.34	
19	BKN	250	10.00		49	20	38	32	9	17	30.12	30.31	
22	SCT	250	10.00		45	25	37	46	10	17	30.11	30.31	
SUNRISE: 0601					MAR 28					SUNSET: 1828			
01	OVC	150	10.00		47	29	40	50	13	18	30.04	30.23	
04	FEW	150	10.00		45	35	41	68	11	18	30.01	30.20	
07	OVC	300	10.00		48	39	44	71	11	19	30.01	30.20	
10	OVC	300	10.00		60	45	52	58	15	20	29.99	30.19	
13	OVC	110	10.00		69	49	58	49	22	21	29.92	30.11	
16	OVC	080	10.00		69	49	58	49	17	20	29.88	30.07	
19	OVC	090	10.00		66	52	58	61	10	19	29.93	30.12	
22	OVC	040	10.00	-RA	62	57	59	84	13	18	29.95	30.14	
SUNRISE: 0560					MAR 29					SUNSET: 1829			
01	OVC	007	3.00	-RA BR	60	58	59	93	6	19	29.94	30.13	
04	OVC	003	2.50	RA BR	60	58	59	93	0	00	29.87	30.06	
07	OVC	012	0.50	-RA FG	59	58	58	96	0	00	29.85	30.04	
10	OVC	023	2.00	-RA BR	62	60	61	93	9	18	29.80	29.99	
13	OVC	016	10.00		65	62	63	90	11	16	29.67	29.86	
16	OVC	060	1.50	RA BR	63	60	61	90	7	16	29.52	29.72	
19	OVC	017	4.00	-RA BR	65	62	63	90	14	17	29.45	29.64	
22	OVC	090	7.00		65	61	63	87	10	18	29.39	29.58	
SUNRISE: 0558					MAR 30					SUNSET: 1830			
01	OVC	090	6.00	-RA BR	62	59	60	90	5	18	29.33	29.51	
04	OVC	014	10.00	-RA	52	49	50	89	23	34	29.31	29.50	
07	OVC	038	10.00	-DZ	50	43	47	77	20	33	29.39	29.58	
10	OVC	032	10.00	-RA	45	38	42	77	18	32	29.47	29.66	
13	OVC	022	5.00	-RA BR	42	38	40	85	15	30	29.52	29.70	
16	OVC	030	4.00	-RA BR	42	36	39	79	20	32	29.54	29.74	
19	OVC	050	6.00	-RA BR	43	38	41	82	14	32	29.60	29.79	
22	OVC	050	10.00		46	38	42	73	13	32	29.64	29.83	

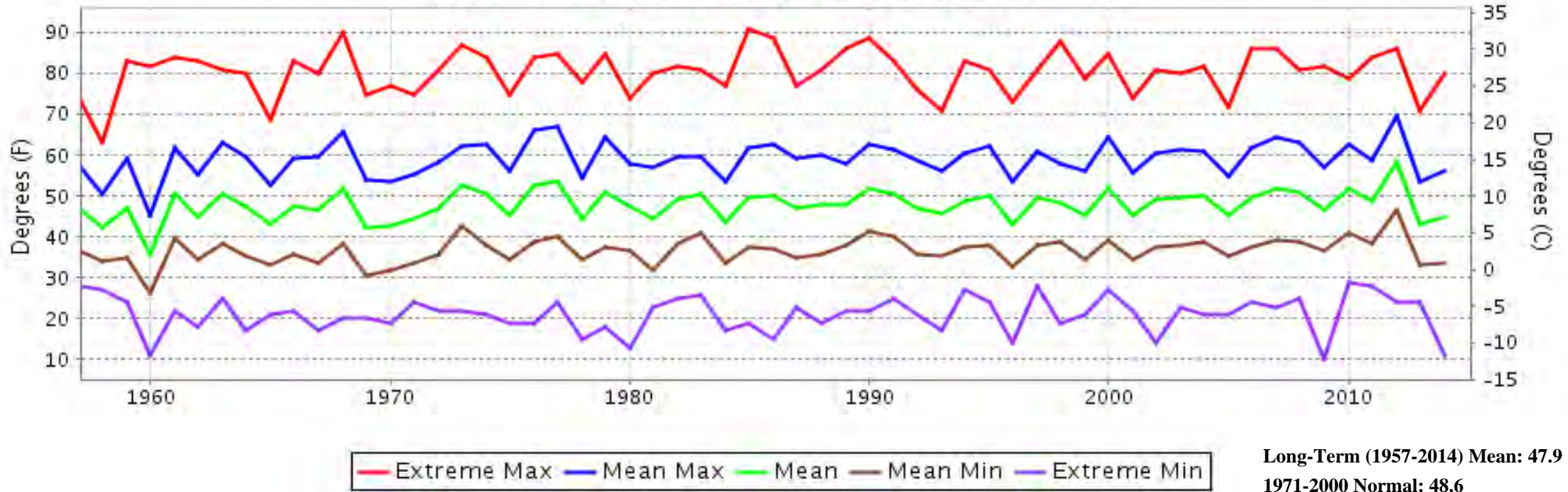
HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL	
SUNRISE: 0557					MAR 31					SUNSET: 1831			
01	BKN	060	10.00		47	29	40	50	22	34	29.69	29.88	
04	FEW	055	10.00		45	28	38	52	16	33	29.72	29.91	
07	SCT	200	10.00		46	28	39	50	14	33	29.80	30.00	
10	SCT	250	10.00		54	29	43	38	16	33	29.86	30.05	
13	BKN	250	10.00		65	29	49	26	13	33	29.85	30.04	
16	FEW	250	10.00		68	25	49	20	15	33	29.84	30.03	
19	FEW	250	10.00		62	28	47	28	0	00	29.85	30.04	
22	CLR	NC	10.00		54	31	44	42	3	03	29.90	30.09	

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.

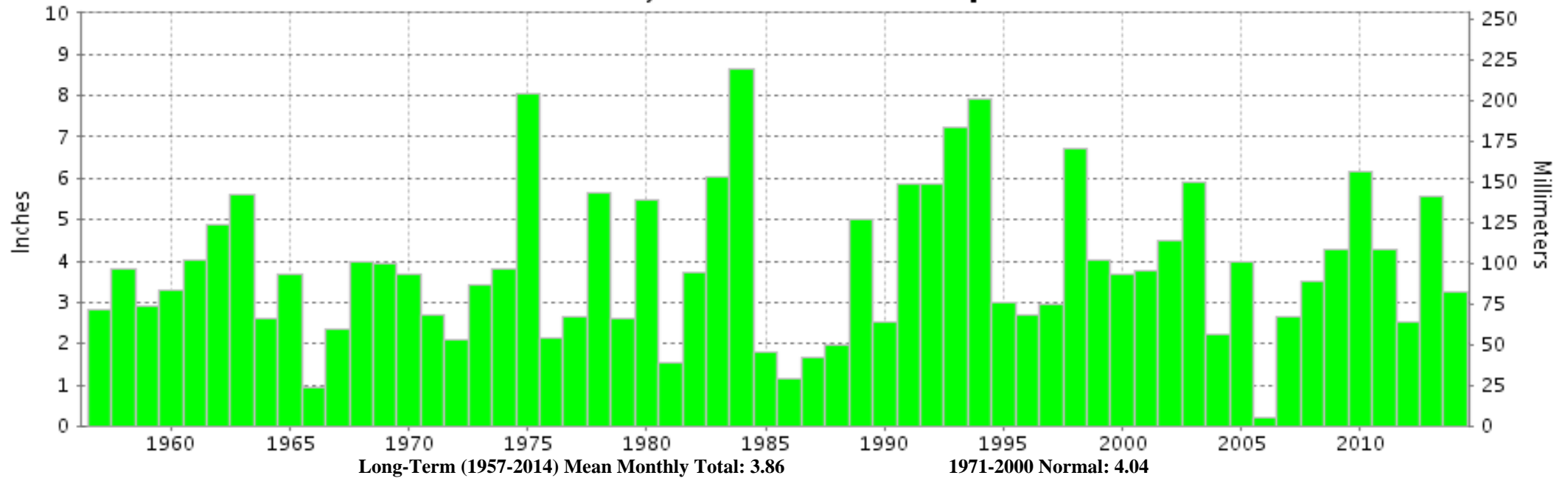
SUMMARY BY HOUR

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	27	35	62	29.86	30.05	8.88	8	3	34
02	40	27	35	63	29.85	30.05	8.91	8	3	34
03	39	27	34	65	29.84	30.03	8.89	8	3	35
04	38	27	34	65	29.84	30.04	9.03	9	3	33
05	38	26	34	65	29.85	30.05	8.97	9	3	33
06	38	26	33	64	29.87	30.06	8.93	9	3	33
07	38	26	34	65	29.88	30.07	8.58	9	3	33
08	41	27	35	60	29.89	30.09	8.27	10	3	33
09	44	27	37	55	29.90	30.09	8.37	12	4	32
10	46	27	38	51	29.90	30.09	8.39	11	4	32
11	49	27	40	48	29.89	30.08	8.40	12	5	30
12	50	27	41	46	29.87	30.05	8.68	13	5	31
13	51	27	41	45	29.85	30.04	8.52	12	4	31
14	52	27	42	46	29.83	30.02	8.04	12	5	31
15	53	27	42	45	29.81	30.01	8.62	12	5	30
16	52	27	42	45	29.81	30.00	8.28	12	5	30
17	52	28	42	47	29.80	30.00	8.44	12	4	31
18	50	28	41	50	29.81	30.01	8.33	10	3	33
19	47	28	40	53	29.82	30.02	8.69	8	3	35
20	46	28	39	54	29.83	30.03	8.89	9	3	34
21	45	28	38	57	29.84	30.04	8.60	8	3	36
22	44	28	38	58	29.85	30.05	8.92	7	3	35
23	43	28	37	59	29.85	30.05	9.08	9	3	35
24	42	28	36	60	29.85	30.03	8.85	9	3	34

RICHMOND, VA MARCH Temperatures



RICHMOND, VA MARCH Precipitation





**MARCH 2014
RICHMOND, VA**

**LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center**

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

DIRECTOR

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