



MARCH 2017 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



**MARCH 2017
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																												
																			SPEED 20	DIR 21	SPEED 22	DIR 23																											
01	81*	56	69*	26	58	61	0	4	RA BR	0		0.0	0.11	29.68	29.83	14.3	22	16.5	48*	22	39*	30	01																										
02	62	41	52	9	25	41	13	0		0		0.0	0.00	29.75	30.00	13.6	30	15.0	42	29	29	29	02																										
03	50	28	39	-4	17	32	26	0	RA SN	0		T	T	30.15	30.37	9.0	29	10.9	36	31	28	31	03																										
04	48	22	35	-9	13	29	30	0		0		0.0	0.00	30.38	30.59	3.3	33	5.9	25	30	18	31	04																										
05	45	26	36	-8	12	27	29	0		0		0.0	0.00	30.45	30.64	2.8	04	4.6	18	03	14	01	05																										
06	63	28	46	2	32	40	19	0		0		0.0	0.00	30.28	30.46	6.3	17	7.5	21	20	16	20	06																										
07	71	50	61	16	47	54	4	0	RA	0		0.0	T	30.09	30.25	13.8	20	13.4	36	24	21	19	07																										
08	68	51	60	15	34	49	5	0	RA	0		0.0	0.06	29.93	30.12	10.0	25	13.0	40	31	32	31	08																										
09	73	49	61	16	23	44	4	0		0		0.0	0.00	29.95	30.11	10.1	24	11.2	29	25	23	25	09																										
10	55	34	45	0	27	39	20	0	RA	0		0.0	0.01	29.72	29.93	8.7	33	13.4	38	34	30	32	10																										
11	48	26	37	-9	12	28	28	0		0		0.0	0.00	30.05	30.27	5.0	36	7.2	26	28	20	28	11																										
12	46	27	37	-9	12	27	28	0		0		0.0	0.00	30.17	30.39	2.4	03	4.5	19	30	16	10	12																										
13	47	26	37	-10	24	31	28	0	RA DZ PL BR	0		T	0.58	30.16	30.31	7.6	06	9.6	24	01	17	02	13																										
14	50	29	40	-7	27	33	25	0	RA PL BR	0		T	1.06	29.49	29.68	18.5	32	20.1	43	29	32	29	14																										
15	39	23	31*	-17	3	23	34	0		0		0.0	0.00	29.78	30.01	17.9	29	18.2	43	32	32	31	15																										
16	47	22*	35	-13	11	28	30	0		0		0.0	0.00	30.01	30.23	8.9	28	9.9	28	27	21	28	16																										
17	56	24	40	-8	17	33	25	0	RA	0		0.0	0.02	30.14	30.33	4.1	21	5.0	25	20	17	21	17																										
18	64	43	54	6	41	46	11	0	TS TSRA RA BR	0		0.0	0.08	29.86	30.03	0.8	21	7.5	38	32	29	33	18																										
19	53	37	45	-4	36	41	20	0	RA PL	0		T	0.19	29.95	30.17	13.1	36	13.2	26	01	21	01	19																										
20	58	33	46	-3	33	41	19	0		0		0.0	0.00	29.98	30.16	1.4	30	5.5	21	01	17	01	20																										
21	67	48	58	9	44	50	7	0	RA	0		0.0	T	29.77	29.95	1.4	03	4.6	23	01	17	01	21																										
22	55	36	46	-4	23	39	19	0		0		0.0	0.00	29.95	30.21	13.5	36	14.4	41	33	33	33	22																										
23	51	28	40	-10	15	31	25	0		0		0.0	0.00	30.37	30.58	3.0	11	5.8	18	06	15	06	23																										
24	70	31	51	1	35	44	14	0		0		0.0	0.00	30.24	30.40	11.0	21	11.6	31	23	25	23	24																										
25	79	55	67	16	50	57	0	2		0		0.0	0.00	30.04	30.22	10.5	21	11.1	27	22	20	21	25																										
26	70	52	61	10	53	56	4	0		0		0.0	0.00	30.03	30.22	5.2	08	7.0	23	08	17	09	26																										
27	78	51	65	13	56	60	0	0	RA	0		0.0	T	29.87	30.04	8.9	20	9.5	25	22	18	22	27																										
28	75	59	67	15	58	61	0	2	TS TSRA RA	0		0.0	0.11	29.71	29.90	5.4	22	7.3	21	19	16	21	28																										
29	69	48	59	7	49	55	6	0		0		0.0	0.00	29.87	30.08	5.3	02	7.5	27	36	17	04	29																										
30	58	45	52	-1	41	46	13	0	RA	0		0.0	0.01	29.98	30.15	6.8	10	7.9	20	12	15	12	30																										
31	67	48	58	5	55	56	7	0	TS TSRA RA BR	0		0.0	1.45	29.59	29.75	3.3	16	7.5	24	16	17	15	31																										
										60.1		37.9		49.0		31.7		42.0		15.9		0.3		< MONTHLY AVERAGES TOTALS >				T		3.68		29.98		30.17		2.8		28		9.9		< MONTHLY AVERAGES							
										0.1		0.8		0.4		<-----DEPARTURE FROM NORMAL----->																				-0.36		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS										GREATEST 24-HR PRECIPITATION : 1.64 DATE : 13-14										SEA LEVEL PRESSURE										DATE TIME																			
MONTHLY										GREATEST 24-HR SNOWFALL : T DATE : 19+										MAXIMUM :										30.73 05 1037																			
TOTAL DEPARTURE										GREATEST SNOW DEPTH : 0 DATE :										MINIMUM :										29.56 14 0854																			
SEASON TO DATE										NUMBER OF -> DAYS WITH										MAXIMUM TEMP >= 90 : 0										MINIMUM TEMP <= 32 : 13				PRECIPITATION >= 0.01 INCH : 11															
HEATING : 493 -23 2975 -477										MAXIMUM TEMP <= 32 : 0										MINIMUM TEMP <= 0 : 0										PRECIPITATION >= 0.10 INCH : 6																			
COOLING : 8 2 8 2										THUNDERSTORMS : 3										HEAVY FOG : 0										SNOWFALL >= 1.0 INCH : 0																			

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
MARCH 2017

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					T	T	0.02	0.06	0.03	T	01	0.11	0.11		
02													02											02	0.00	0.00		
03													03	T	T									03	T	T		
04													04											04	0.00	0.00		
05													05											05	0.00	0.00		
06													06											06	0.00	0.00		
07													07							T	T	T	T	07	T	T		
08						T	0.06						08											08	0.06	0.06		
09													09											09	0.00	0.00		
10									T	0.01	T	T	10	T									10	0.01	0.01			
11													11											11	0.00	0.00		
12													12											12	0.00	0.00		
13													13		T	T	T	0.01	0.02	T	0.03	0.09	0.12	0.15	0.16	13	0.58	0.58
14	0.20	0.10	0.19	0.24	0.26	0.05	0.02	T	T				14											14	1.06	1.06		
15													15											15	0.00	0.00		
16													16											16	0.00	0.00		
17													17											17	0.02	0.02		
18													18				0.05	0.01	T	0.02	T	T	0.02	18	0.08	0.08		
19	0.01	0.01	0.01	0.06	0.01	0.02	0.03	0.03	0.01	T			19											19	0.19	0.19		
20													20											20	0.00	0.00		
21			T	T									21											21	T	T		
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			T										27											27	T	T		
28								0.03	0.06	0.01	0.01		28		T		T							28	0.11	0.11		
29													29											29	0.00	0.00		
30													30										0.01	30	0.01	0.01		
31	T		0.01	0.01		T	0.02	0.08	0.12	0.36	0.23	0.33	31	0.06	0.05			T	0.15	0.03	T	T	31	1.45	1.45			

* 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)	0.16	0.18	0.21	0.24	0.28	0.35	0.40	0.46	0.54	0.60	0.86	0.96
Ending Date	31	31	31	31	31	31	31	31	31	31	31	31
Ending Time (Hr/Min)	0905	0907	1119	1123	0920	0920	1123	1005	1132	1047	1120	1137

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

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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	6.00	10.00
02	10.00	10.00
03	8.00	10.00
04	10.00	10.00
05	10.00	10.00
06	10.00	10.00
07	10.00	10.00
08	10.00	10.00
09	10.00	10.00
10	10.00	10.00
11	10.00	10.00
12	10.00	10.00
13	3.00	10.00
14	4.00	10.00
15	10.00	10.00
16	10.00	10.00
17	10.00	10.00
18	10.00	10.00
19	7.00	10.00
20	9.00	10.00
21	10.00	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	10.00	10.00
28	7.00	10.00
29	10.00	10.00
30	10.00	10.00
31	2.00	10.00
AVGS	8.90	10.00
MINIMUM VISIBILITY (MILES)		
<= .25	<= 3.0	>= 7.0
0	2	27

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
MARCH 2017 **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	BKN	240	10.00		57	57	57	100	6	21	29.84	30.03	01	OVC	300	10.00		54	43	49	67	11	19	30.16	30.35				
04	SCT	220	10.00		59	58	58	96	8	20	29.76	29.95	04	OVC	300	10.00		51	43	47	74	7	20	30.14	30.34				
07	OVC	300	10.00		63	62	62	97	15	21	29.72	29.91	07	BKN	200	10.00		53	43	48	69	11	18	30.14	30.33				
10	OVC	250	10.00		71	63	66	76	23	21	29.64	29.83	10	OVC	150	10.00		60	46	53	60	14	21	30.16	30.35				
13	BKN	250	10.00		77	58	65	52	28	23	29.58	29.76	13	BKN	300	10.00		69	49	58	49	18	21	30.07	30.27				
16	BKN	250	10.00		70	50	59	49	17	28	29.61	29.80	16	OVC	300	10.00		70	47	57	44	21	19	29.99	30.18				
19	OVC	090	10.00	-RA	60	56	58	86	11	20	29.60	29.79	19	OVC	300	10.00		66	49	57	54	10	18	29.98	30.17				
22	OVC	200	10.00		60	57	58	90	17	21	29.48	29.67	22	OVC	110	10.00	-RA	63	51	56	65	16	18	29.95	30.14				
SUNRISE: 0640					MAR 02					SUNSET: 1804					SUNRISE: 0631					MAR 08					SUNSET: 1810				
01	OVC	210	10.00		61	57	59	87	15	22	29.52	29.70	01	OVC	250	10.00		63	53	57	70	16	20	29.88	30.07				
04	SCT	250	10.00		55	29	44	37	21	30	29.60	29.79	04	OVC	110	10.00		64	54	58	70	16	21	29.84	30.03				
07	SCT	300	10.00		48	23	38	37	14	28	29.71	29.90	07	OVC	041	10.00	-RA	51	47	49	86	11	35	29.97	30.16				
10	SCT	300	10.00		53	24	41	32	16	29	29.79	29.99	10	SCT	075	10.00		58	40	49	51	11	29	30.01	30.20				
13	FEW	300	10.00		56	22	42	27	21	33	29.83	30.03	13	FEW	250	10.00		65	21	46	19	15	27	29.96	30.15				
16	SCT	300	10.00		56	20	42	24	16	33	29.87	30.06	16	FEW	250	10.00		68	20	48	16	18	26	29.91	30.10				
19	CLR	NC	10.00		49	16	37	27	13	30	29.96	30.15	19	FEW	250	10.00		57	22	43	26	9	22	29.90	30.10				
22	CLR	NC	10.00		43	19	34	38	7	32	30.02	30.22	22	CLR	NC	10.00		55	22	42	28	7	25	29.97	30.16				
SUNRISE: 0638					MAR 03					SUNSET: 1805					SUNRISE: 0630					MAR 09					SUNSET: 1811				
01	CLR	NC	10.00		40	20	33	45	5	26	30.07	30.27	01	SCT	300	10.00		53	21	40	28	8	26	29.99	30.18				
04	CLR	NC	10.00		31	22	28	69	5	22	30.07	30.26	04	OVC	260	10.00		52	22	40	31	9	25	29.99	30.18				
07	FEW	060	10.00		32	24	29	73	3	34	30.12	30.32	07	FEW	150	10.00		50	24	40	36	9	24	30.03	30.22				
10	SCT	120	10.00		45	23	37	42			30.14	30.34	10	CLR	NC	10.00		64	23	46	21	17	24	30.02	30.21				
13	BKN	110	8.00	-RA	45	27	38	49	9	29	30.13	30.32	13	CLR	NC	10.00		71	20	49	14	15	27	29.93	30.12				
16	SCT	300	10.00		45	9	33	23	20	30	30.17	30.37	16	SCT	300	10.00		72	18	49	13	15	26	29.85	30.04				
19	CLR	NC	10.00		40	6	30	24	13	30	30.28	30.48	19	FEW	300	10.00		60	24	45	25	7	19	29.83	30.03				
22	CLR	NC	10.00		35	11	28	37	7	32	30.35	30.54	22	FEW	300	10.00		53	29	43	40	8	19	29.80	29.99				
SUNRISE: 0637					MAR 04					SUNSET: 1806					SUNRISE: 0628					MAR 10					SUNSET: 1811				
01	CLR	NC	10.00		30	13	25	49	7	01	30.38	30.57	01	SCT	270	10.00		52	30	42	43	11	19	29.72	29.91				
04	BKN	250	10.00		28	17	25	63	6	36	30.39	30.58	04	OVC	300	10.00		54	30	43	40	13	22	29.62	29.82				
07	FEW	250	10.00		25	16	22	69	0	00	30.44	30.64	07	OVC	110	10.00		55	32	45	42	7	30	29.60	29.79				
10	FEW	300	10.00		36	14	29	40	3	VR	30.45	30.65	10	OVC	075	10.00	-RA	49	35	43	59	3	02	29.61	29.80				
13	CLR	NC	10.00		45	10	33	24	10	32	30.38	30.58	13	BKN	075	10.00		46	34	41	63	20	35	29.72	29.92				
16	FEW	300	10.00		48	8	35	19	9	29	30.33	30.53	16	BKN	080	10.00		51	27	41	39	16	01	29.75	29.94				
19	CLR	NC	10.00		41	11	31	29	3	03	30.33	30.53	19	FEW	060	10.00		44	16	34	32	15	33	29.85	30.04				
22	FEW	250	10.00		35	11	28	37	6	04	30.39	30.58	22	FEW	070	10.00		38	17	31	43	11	36	29.95	30.15				
SUNRISE: 0635					MAR 05					SUNSET: 1807					SUNRISE: 0627					MAR 11					SUNSET: 1812				
01	CLR	NC	10.00		31	12	25	45	5	02	30.44	30.64	01	FEW	300	10.00		32	18	27	56	6	05	29.98	30.18				
04	CLR	NC	10.00		28	12	23	51	8	03	30.45	30.64	04	CLR	NC	10.00		30	17	26	58	0	00	30.01	30.20				
07	CLR	NC	10.00		26	12	22	55	5	02	30.50	30.70	07	FEW	300	10.00		27	17	24	66	5	03	30.09	30.29				
10	CLR	NC	10.00		34	10	27	37	11	04	30.53	30.73	10	FEW	300	10.00		35	16	29	46	6	VR	30.12	30.32				
13	CLR	NC	10.00		41	4	30	21	8	35	30.47	30.67	13	SCT	300	10.00		44	14	34	30	13	31	30.07	30.27				
16	FEW	250	10.00		44	7	32	22	3	22	30.39	30.58	16	FEW	250	10.00		47	1	33	15	10	34	30.03	30.23				
19	FEW	300	10.00		39	15	31	38	3	13	30.38	30.58	19	BKN	300	10.00		40	8	30	27	6	04	30.06	30.26				
22	CLR	NC	10.00		32	19	28	59	5	13	30.38	30.58	22	BKN	190	10.00		34	8	26	34	9	03	30.14	30.34				
SUNRISE: 0634					MAR 06					SUNSET: 1808					SUNRISE: 0625					MAR 12					SUNSET: 1813				
01	CLR	NC	10.00		31	16	26	54	6	14	30.35	30.55	01	BKN	300	10.00		30	9	24	41	3	06	30.17	30.37				
04	CLR	NC	10.00		29	19	26	66	5	14	30.33	30.53	04	OVC	250	10.00		27	11	22	51	6	03	30.17	30.36				
07	SCT	170	10.00		31	22	28	69	5	17	30.33	30.53	07	OVC	200	10.00		28	12	23	51	5	36	30.21	30.41				
10	SCT	300	10.00		45	29	38	54	13	19	30.32	30.52	10	SCT	250	10.00		33	11	26	40	8	35	30.25	30.45				
13	BKN	300	10.00		55	37	47	51	8	18	30.26	30.45	13	CLR	NC	10.00		41	10	31	28	10	32	30.17	30.37				
16	BKN	300	10.00		62	39	51	43	10	15	30.18	30.38	16	CLR	NC	10.00		45	8	33	22	6	30	30.12	30.32				
19	OVC	300	10.00		56	41	49	57	6	12	30.20	30.39	19	FEW	300	10.00		40	11	31	30	5	10	30.16	30.36				
22	OVC	300	10.00		54	41	48	62	7	15	30.19	30.38	22	FEW	300	10.00		32	20	28	61	5	09	30.22	30.42				

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

MARCH 2017

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					SUNRISE: 0615					MAR 19					SUNSET: 1820				
01	CLR	NC	10.00		29	20	26	69	3	05	30.25	30.45	01	OVC	018	8.00	-RA	44	42	43	93	15	34	29.83	30.02				
04	CLR	NC	10.00		27	19	24	72	8	04	30.25	30.45	04	OVC	013	7.00	-RA	42	40	41	92	14	36	29.86	30.06				
07	BKN	300	10.00		29	18	25	63	7	06	30.27	30.47	07	OVC	019	10.00	-RA	39	36	38	89	18	35	29.94	30.14				
10	BKN	300	10.00		40	17	32	40	10	09	30.27	30.47	10	BKN	019	10.00	-RA	41	38	40	89	15	35	30.02	30.21				
13	OVC	250	10.00		44	21	35	40	10	11	30.16	30.36	13	BKN	035	10.00		47	36	42	66	18	35	30.03	30.22				
16	OVC	038	10.00	-RA	38	28	34	68	6	11	30.08	30.28	16	BKN	045	10.00		53	34	44	48	16	35	30.00	30.19				
19	OVC	025	7.00	-RA	35	33	34	93	11	05	29.97	30.17	19	FEW	055	10.00		46	33	40	61	5	36	30.02	30.21				
22	OVC	015	4.00	RA BR	33	32	33	96	14	02	29.88	30.07	22	SCT	050	10.00		44	33	39	65	9	36	30.06	30.26				
SUNRISE: 0622					MAR 14					SUNSET: 1815					SUNRISE: 0613					MAR 20					SUNSET: 1821				
01	OVC	007	4.00	RA BR	33	31	32	92	16	03	29.63	29.83	01	CLR	NC	10.00		40	32	37	73	6	35	30.04	30.24				
04	OVC	014	4.00	+RA BR	33	31	32	92	18	34	29.44	29.63	04	CLR	NC	10.00		36	31	34	82	3	33	30.02	30.22				
07	OVC	020	10.00	-RAPL	34	31	33	89	25	34	29.37	29.57	07	SCT	250	9.00		36	32	34	86	0	00	30.05	30.25				
10	OVC	010	10.00		35	32	34	89	23	33	29.39	29.58	10	SCT	250	10.00		48	31	41	52	9	33	30.04	30.23				
13	OVC	100	10.00		43	35	40	74	21	31	29.41	29.60	13	OVC	250	10.00		53	31	43	43	6	24	29.97	30.17				
16	BKN	060	10.00		48	30	40	50	17	29	29.42	29.61	16	OVC	250	10.00		56	31	45	39	3	VR	29.90	30.09				
19	SCT	300	10.00		39	17	31	41	21	31	29.56	29.76	19	OVC	250	10.00		54	35	45	49	6	15	29.86	30.06				
22	SCT	060	10.00		33	12	26	42	28	31	29.67	29.86	22	OVC	080	10.00		51	37	45	59	5	13	29.87	30.07				
SUNRISE: 0621					MAR 15					SUNSET: 1816					SUNRISE: 0612					MAR 21					SUNSET: 1822				
01	FEW	050	10.00		27	5	21	39	18	30	29.72	29.92	01	OVC	220	10.00		49	38	44	66	3	16	29.81	30.01				
04	CLR	NC	10.00		24	1	18	36	23	30	29.73	29.93	04	OVC	044	10.00		50	43	47	77	3	12	29.75	29.94				
07	FEW	050	10.00		23	-0	18	36	22	28	29.77	29.97	07	BKN	095	10.00		49	43	46	80	0	00	29.75	29.95				
10	SCT	300	10.00		30	2	23	30	25	30	29.79	29.99	10	BKN	250	10.00		60	45	52	58	7	03	29.77	29.96				
13	BKN	300	10.00		35	4	26	27	28	29	29.78	29.98	13	BKN	250	10.00		66	44	54	45	11	01	29.77	29.96				
16	SCT	300	10.00		38	5	28	25	22	29	29.80	29.99	16	BKN	250	10.00		66	46	55	49	0	00	29.74	29.93				
19	FEW	300	10.00		36	4	27	26	9	28	29.86	30.06	19	OVC	300	10.00		58	47	52	67	7	04	29.75	29.94				
22	CLR	NC	10.00		32	6	25	33	7	26	29.94	30.14	22	OVC	300	10.00		56	45	50	67	3	06	29.78	29.97				
SUNRISE: 0619					MAR 16					SUNSET: 1817					SUNRISE: 0610					MAR 22					SUNSET: 1823				
01	CLR	NC	10.00		30	5	23	34	10	29	29.98	30.18	01	OVC	140	10.00		52	46	49	80	0	00	29.75	29.94				
04	CLR	NC	10.00		25	8	20	48	5	23	30.01	30.21	04	OVC	150	10.00		53	46	49	77	5	31	29.76	29.96				
07	FEW	250	10.00		26	9	21	48	9	25	30.04	30.24	07	SCT	150	10.00		53	36	45	52	23	01	29.84	30.03				
10	SCT	250	10.00		37	11	29	34	10	29	30.05	30.25	10	FEW	250	10.00		48	18	37	30	24	36	30.01	30.20				
13	CLR	NC	10.00		42	13	32	30	13	29	30.01	30.21	13	FEW	250	10.00		50	17	38	27	18	36	30.06	30.26				
16	CLR	NC	10.00		46	11	34	24	17	28	29.97	30.16	16	FEW	300	10.00		51	12	37	21	23	35	30.08	30.27				
19	CLR	NC	10.00		42	10	32	27	10	32	30.02	30.22	19	CLR	NC	10.00		45	9	33	23	11	36	30.16	30.35				
22	CLR	NC	10.00		37	12	29	36	5	33	30.08	30.28	22	CLR	NC	10.00		39	10	30	30	9	02	30.25	30.45				
SUNRISE: 0618					MAR 17					SUNSET: 1818					SUNRISE: 0609					MAR 23					SUNSET: 1824				
01	CLR	NC	10.00		28	15	24	58	6	23	30.13	30.33	01	CLR	NC	10.00		36	11	28	35	3	02	30.30	30.50				
04	CLR	NC	10.00		27	15	23	61	0	00	30.16	30.36	04	CLR	NC	10.00		31	14	26	49	6	03	30.35	30.54				
07	FEW	250	10.00		30	15	25	54	0	00	30.22	30.42	07	FEW	150	10.00		30	15	25	54	6	06	30.44	30.63				
10	SCT	250	10.00		45	14	34	29	3	VR	30.24	30.43	10	FEW	250	10.00		39	11	30	31	3	VR	30.48	30.68				
13	FEW	250	10.00		51	13	37	22	10	24	30.16	30.35	13	FEW	250	10.00		47	13	35	25	0	00	30.43	30.63				
16	OVC	170	10.00		53	11	38	18	9	22	30.06	30.25	16	FEW	250	10.00		49	13	36	23	8	18	30.36	30.56				
19	OVC	065	10.00		50	15	37	25	3	19	30.07	30.27	19	CLR	NC	10.00		43	16	34	34	3	11	30.35	30.54				
22	OVC	060	10.00	-RA	48	23	38	37	0	00	30.06	30.25	22	CLR	NC	10.00		37	21	31	52	7	14	30.37	30.57				
SUNRISE: 0616					MAR 18					SUNSET: 1819					SUNRISE: 0607					MAR 24					SUNSET: 1824				
01	OVC	050	10.00		44	36	41	73	8	15	29.99	30.18	01	CLR	NC	10.00		34	25	31	70	6	15	30.37	30.57				
04	OVC	043	10.00		44	37	41	76	7	17	29.92	30.11	04	CLR	NC	10.00		32	26	30	79	7	20	30.34	30.54				
07	OVC	100	10.00		44	39	42	83	5	18	29.90	30.09	07	BKN	250	10.00		35	27	32	72	8	18	30.32	30.52				
10	OVC	130	10.00		49	41	45	74	8	26	29.90	30.09	10	BKN	250	10.00		49	21	38	33	13	21	30.32	30.52				
13	OVC	250	10.00		60	43	51	53	0	00	29.81	30.00	13	BKN	250	10.00		64	32	49	30	21	24	30.19	30.38				
16	BKN	300	10.00		63	42	52	47	7	14	29.72	29.91	16	OVC	300	10.00		70	44	56	39	20	23	30.09	30.29				
19	OVC	095	10.00	-RA	50	47	48	89	20	14	29.74	29.94	19	OVC	300	10.00		65	47	55	52	15	21	30.07	30.26				
22	OVC	100	10.00		46	43	45	89	14	31	29.82	30.02	22	SCT	300	10.00		61	48	54	63	10	20	30.07	30.27				

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
MARCH 2017

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: 0606 MAR 25					SUNSET: 1825							
01	FEW	300	10.00		55	47	51	74	9	20	30.07	30.26
04	SCT	300	10.00		59	48	53	67	15	21	30.04	30.23
07	OVC	300	10.00		57	49	53	74	6	21	30.08	30.27
10	BKN	250	10.00		68	51	58	55	15	22	30.07	30.26
13	BKN	250	10.00		78	52	63	40	14	23	30.02	30.20
16	OVC	300	10.00		76	51	62	42	14	20	29.98	30.17
19	OVC	220	10.00		68	52	59	57	7	18	30.00	30.20
22	OVC	220	10.00		62	52	56	70	7	18	30.02	30.21
SUNRISE: 0604 MAR 26					SUNSET: 1826							
01	SCT	300	10.00		60	52	56	75	9	20	30.02	30.21
04	SCT	300	10.00		58	51	54	78	0	00	30.01	30.20
07	BKN	300	10.00		56	53	54	90	3	07	30.07	30.26
10	BKN	250	10.00		62	52	56	70	6	08	30.10	30.29
13	OVC	200	10.00		69	55	61	61	7	05	30.05	30.24
16	BKN	085	10.00		68	55	60	63	14	07	29.98	30.17
19	BKN	300	10.00		59	52	55	78	11	08	29.99	30.18
22	BKN	140	10.00		55	52	53	90	5	07	30.00	30.20
SUNRISE: 0603 MAR 27					SUNSET: 1827							
01	BKN	150	10.00		51	51	51	100	3	11	29.95	30.14
04	BKN	090	10.00		54	53	53	97	3	15	29.91	30.10
07	BKN	120	10.00		58	55	56	90	8	19	29.93	30.12
10	BKN	250	10.00		65	58	61	78	11	21	29.91	30.11
13	BKN	250	10.00		76	58	65	54	16	21	29.86	30.05
16	BKN	250	10.00		78	56	65	47	9	19	29.77	29.96
19	OVC	300	10.00		71	58	63	63	11	19	29.76	29.94
22	OVC	300	10.00		66	57	61	73	8	18	29.76	29.95
SUNRISE: 0601 MAR 28					SUNSET: 1828							
01	BKN	250	10.00		65	56	60	73	11	20	29.75	29.94
04	SCT	250	10.00		62	56	59	80	11	20	29.70	29.89
07	OVC	200	7.00	-TSRA	60	57	58	90	7	21	29.72	29.91
10	OVC	100	10.00		61	60	60	97	9	20	29.71	29.91
13	BKN	120	10.00		72	58	64	61	10	25	29.68	29.87
16	BKN	250	10.00		70	60	64	71	7	18	29.65	29.83
19	BKN	250	10.00		63	58	60	84	0	00	29.70	29.89
22	SCT	080	10.00		61	57	59	87	3	32	29.74	29.93
SUNRISE: 0560 MAR 29					SUNSET: 1829							
01	BKN	085	10.00		63	56	59	78	11	36	29.77	29.96
04	OVC	040	10.00		61	56	58	84	8	02	29.80	29.99
07	BKN	055	10.00		59	56	57	90	7	03	29.87	30.06
10	BKN	034	10.00		63	51	56	65	11	03	29.92	30.11
13	BKN	120	10.00		64	48	55	56	9	35	29.91	30.10
16	SCT	300	10.00		69	43	55	39	6	VR	29.88	30.07
19	BKN	300	10.00		63	42	52	47	5	07	29.93	30.12
22	CLR	NC	10.00		53	45	49	74	0	00	29.99	30.18
SUNRISE: 0558 MAR 30					SUNSET: 1830							
01	FEW	070	10.00		46	42	44	86	0	00	29.99	30.19
04	SCT	080	10.00		45	43	44	93	3	02	29.99	30.19
07	OVC	060	10.00		47	38	43	71	8	06	30.05	30.25
10	OVC	065	10.00		51	38	45	61	8	10	30.05	30.24
13	OVC	048	10.00		57	39	48	51	9	13	29.98	30.17
16	OVC	048	10.00		56	43	50	62	8	11	29.91	30.10
19	OVC	300	10.00		50	42	46	74	14	12	29.88	30.07
22	OVC	060	10.00		49	42	46	77	9	11	29.86	30.06

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	OVC	034	10.00		48	45	47	89	6	13	29.81	30.00
04	OVC	085	10.00		49	47	48	93	5	09	29.71	29.91
07	OVC	035	4.00	RA BR	53	52	52	96	10	11	29.63	29.82
10	OVC	011	2.50	RA BR	60	60	60	100	9	17	29.56	29.75
13	OVC	080	3.00	RA BR	62	61	61	96	9	18	29.48	29.68
16	BKN	160	10.00		66	61	63	84	6	16	29.41	29.59
19	OVC	090	10.00		58	57	57	97	3	36	29.44	29.63
22	BKN	130	10.00		56	54	55	93	6	30	29.50	29.69

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.

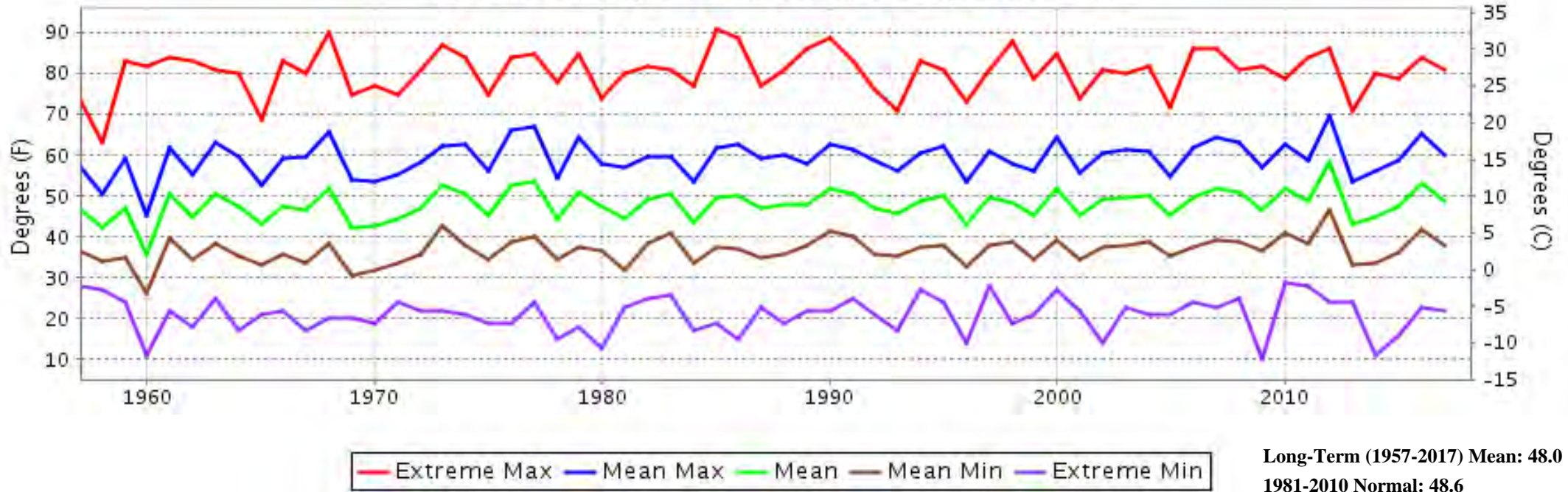
& = Original observation contained additional weather elements.

See page 3 for additional notes.

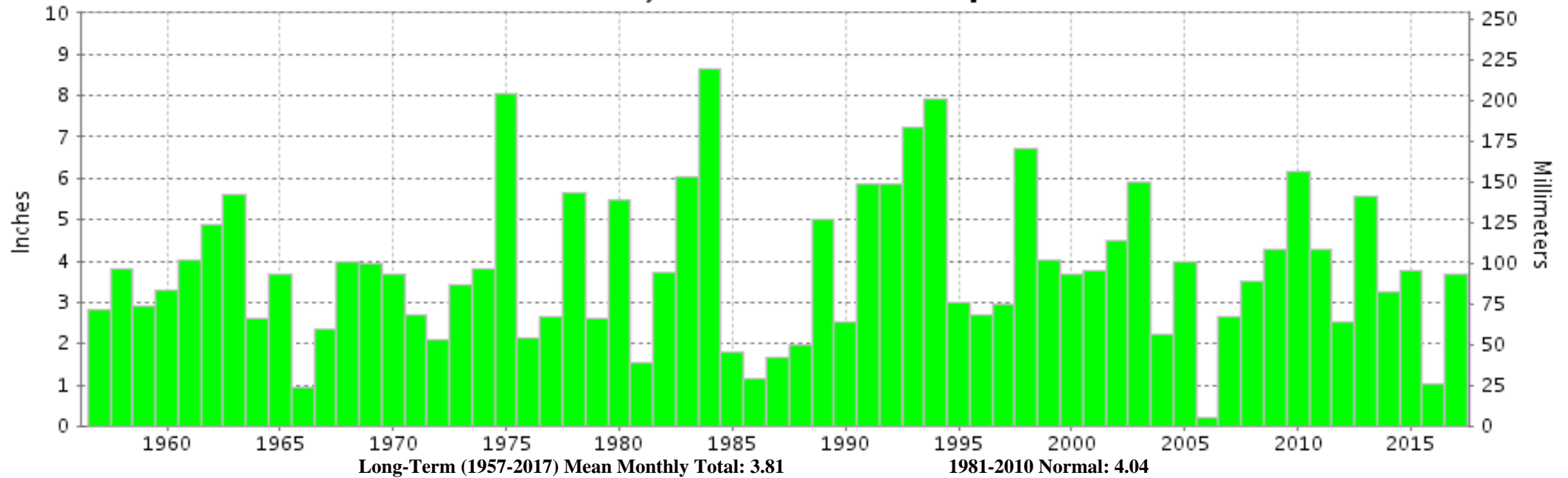
SUMMARY BY HOUR

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	44	32	40	66	29.99	30.18	9.74	8	1	27
02	43	33	39	68	29.98	30.18	9.71	8	2	27
03	43	32	39	68	29.97	30.17	9.81	7	2	27
04	43	32	39	69	29.97	30.17	9.71	8	2	27
05	42	32	38	69	29.98	30.17	9.84	8	2	27
06	42	32	38	70	29.99	30.18	9.87	7	2	27
07	42	32	38	70	30.00	30.20	9.68	8	2	27
08	45	33	40	65	30.02	30.21	9.84	10	1	27
09	47	32	41	59	30.02	30.21	9.68	11	1	27
10	49	32	42	54	30.02	30.22	9.76	11	4	27
11	52	32	44	50	30.01	30.20	9.74	13	5	27
12	54	32	45	46	30.00	30.19	9.81	13	7	27
13	56	32	46	43	29.98	30.17	9.71	13	7	27
14	57	31	46	40	29.95	30.15	10.00	13	7	27
15	58	30	46	38	29.94	30.14	10.00	13	7	27
16	58	30	46	38	29.94	30.13	10.00	12	5	27
17	57	30	46	39	29.93	30.13	9.87	12	6	27
18	54	30	44	44	29.95	30.14	9.81	10	4	27
19	51	31	43	50	29.96	30.15	9.90	9	0	28
20	49	31	42	54	29.97	30.17	9.81	9	1	27
21	48	32	42	56	29.98	30.18	9.84	9	0	28
22	47	32	41	59	29.99	30.18	9.81	8	1	27
23	46	32	40	61	29.99	30.18	9.84	8	1	27
24	45	32	40	64	29.98	30.17	9.77	9	1	27

RICHMOND, VA MARCH Temperatures



RICHMOND, VA MARCH Precipitation





MARCH 2017
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 Jee SS".

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