



AUGUST 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 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			
20	21	22	23	24																				
01	79	64	72	-6	67	69	0	7	RA BR HZ	0		0.0	1.15	29.98	30.17	2.8	07	4.4	17	11	14	11	01	
02	76	65	71	-7	66	68	0	6	RA DZ FG BR	0		0.0	0.44	29.93	30.12	3.4	02	4.6	15	01	12	36	02	
03	83	71	77	-1	68	70	0	12	RA DZ BR	0		0.0	0.66	29.88	30.08	3.1	21	4.6	13	16	9	17	03	
04	86	69	78	1	68	71	0	13	BR	0		0.0	0.00	29.90	30.09	1.9	16	3.7	15	13	12	18	04	
05	89	71	80	3	67	71	0	15	BR	0		0.0	0.00	29.84	30.02	0.5	09	3.6	13	04	9	01	05	
06	90	70	80	3	67	71	0	15	RA BR	0		0.0	0.01	29.75	29.94	1.8	34	3.2	16	34	14	33	06	
07	86	69	78	1	65	69	0	13	BR	0		0.0	0.00	29.79	30.00	3.0	02	4.2	16	02	14	02	07	
08	83	65	74	-3	62	67	0	9		0		0.0	0.00	29.91	30.10	1.8	15	3.1	12	15	9	17	08	
09	79	68	74	-3	64	67	0	9		0		0.0	0.00	29.93	30.13	3.6	21	4.0	13	19	10	20	09	
10	83	65	74	-3	63	67	0	9	BR	0		0.0	0.00	29.93	30.12	2.9	10	4.5	15	12	12	16	10	
11	85	63	74	-3	66	69	0	9	RA	0		0.0	0.22	29.90	30.07	4.4	11	4.6	23	06	18	07	11	
12	86	72	79	2	72	74	0	14	RA BR	0		0.0	0.33	29.70	29.87	4.0	14	5.5	23	16	18	17	12	
13	84	70	77	1	62	68	0	12		0		0.0	0.00	29.65	29.85	7.9	30	8.7	22	31	16	34	13	
14	84	60	72	-4	58	64	0	7		0		0.0	0.00	29.77	29.96	5.9	22	6.9	28	22	22*	22	14	
15	84	63	74	-2	57	64	0	9		0		0.0	0.00	29.80	30.00	0.3	24	4.5	17	24	13	22	15	
16	87	64	76	0	59	65	0	11		0		0.0	0.00	29.81	30.00	2.7	28	4.3	20	27	16	27	16	
17	89	67	78	2	64	69	0	13		0		0.0	0.00	29.76	29.95	2.2	28	4.0	17	34	15	34	17	
18	85	69	77	1	69	71	0	12	TS TSRA RA BR	0		0.0	0.25	29.70	29.88	1.7	16	3.2	17	23	14	23	18	
19	86	72	79	3	70	73	0	14	RA BR	0		0.0	0.38	29.65	29.85	4.3	05	5.1	21	07	14	07	19	
20	87	70	79	3	68	71	0	14	RA BR	0		0.0	T	29.77	29.97	2.9	12	4.9	17	15	13	14	20	
21	92	70	81	5	70	73	0	16	RA BR	0		0.0	T	29.83	30.02	2.0	27	3.5	14	29	10	29	21	
22	86	74	80	4	69	72	0	15		0		0.0	0.00	29.80	29.98	1.7	36	3.8	14	26	12	26	22	
23	81	69	75	-1	69	71	0	10	RA BR	0		0.0	0.17	29.81	30.00	5.0	05	5.3	20	04	15	04	23	
24	81	64	73	-3	61	65	0	8		0		0.0	0.00	29.91	30.11	7.4	05	8.0	22	06	17	06	24	
25	81	61	71*	-5	59	63	0	6		0		0.0	0.00	29.96	30.15	6.0	04	6.4	18	03	15	03	25	
26	87	61	74	-2	59	65	0	9		0		0.0	0.00	29.96	30.13	3.5	05	4.7	21	04	14	05	26	
27	91	60*	76	1	61	67	0	11		0		0.0	0.00	29.85	30.02	1.4	35	2.9	17	01	13	01	27	
28	93	70	82	7	63	69	0	17		0		0.0	0.00	29.77	29.97	5.4	36	7.0	20	34	15	35	28	
29	85	65	75	0	60	66	0	10		0		0.0	0.00	29.96	30.16	3.6	07	5.8	17	05	13	06	29	
30	89	69	79	4	68	71	0	14		0		0.0	0.00	30.01	30.19	5.3	15	6.0	20	15	15	15	30	
31	94*	74	84*	9	71	75	0	19		0		0.0	0.00	29.93	30.10	8.6	20	8.8	28*	20	18	20	31	

85.5	67.2	76.4	☼	64.9	68.9	0.0	11.5	< MONTHLY AVERAGES TOTALS >				0.0	3.61	29.84	30.03	0.7	07	5.0	< MONTHLY AVERAGES			
-2.1	-0.2	-1.1		<----- DEPARTURE FROM NORMAL ----->										-1.05	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3							
DEGREE DAYS								GREATEST 24-HR PRECIPITATION : 1.15 DATE : 01				SEA LEVEL PRESSURE				DATE TIME						
MONTHLY				SEASON TO DATE				GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.24 30 0954										
TOTAL DEPARTURE				TOTAL DEPARTURE				GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.76 13 0400										
HEATING :		0 -1		0		-1		NUMBER OF ->		MAXIMUM TEMP >= 90 : 5		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH: 9								
COOLING :		358 -30		1380		73		DAYS WITH		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH: 8								
										THUNDERSTORMS : 1		HEAVY FOG : 0		SNOWFALL >= 1.0 INCH : 0								

**AUGUST 2014
RICHMOND, VA**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
AUGUST 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	T	T	0.01	T	T	T	T	T	0.01	T	T		01		0.02	0.01	0.04	0.02	0.07	0.07	0.03	0.10	0.42	0.23	0.12	01	1.15	1.15
02	T	T		T							T		02				0.04	0.05	0.03				0.04	0.07	0.21	02	0.44	0.44
03	0.58	0.08	T	T									03													03	0.66	0.66
04													04													04	0.00	0.00
05													05													05	0.00	0.00
06													06			T	0.01	T	T							06	0.01	0.01
07													07													07	0.00	0.00
08													08													08	0.00	0.00
09													09													09	0.00	0.00
10													10													10	0.00	0.00
11													11				T	0.22	T				T	T	T	11	0.22	0.22
12	T		T	T				T	0.01		T		12		0.22	0.09	0.01	T				T	T	T	12	0.33	0.33	
13													13													13	0.00	0.00
14													14													14	0.00	0.00
15													15													15	0.00	0.00
16													16													16	0.00	0.00
17													17													17	0.00	0.00
18													18		0.04	0.19	T		T	0.02				T	T	18	0.25	0.25
19	0.01	0.21	0.16										19				T									19	0.38	0.38
20													20								T				T	20	T	T
21													21									T	T	T		21	T	T
22													22													22	0.00	0.00
23				T	T	0.03	0.01	T			T	T	23	T	T	T			0.04	T	0.09				23	0.17	0.17	
24													24													24	0.00	0.00
25													25													25	0.00	0.00
26													26													26	0.00	0.00
27													27													27	0.00	0.00
28													28													28	0.00	0.00
29													29													29	0.00	0.00
30													30													30	0.00	0.00
31													31													31	0.00	0.00

* Indicates sum of Hourly and Daily disagree.

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	0.19	0.20	0.21	0.26	0.35	0.50	0.58	0.79	0.84	0.86	0.87	0.89
Ending Date	12	12	01	03	03	03	03	03	03	03	03	03
Ending Time (Hr/Min)	1339	1340	2146	0022	0017	0030	0059	0100	0123	0123	0123	0115

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 AUGUST 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	2.00	10.00
02	0.50	10.00
03	1.25	10.00
04	4.00	10.00
05	2.00	10.00
06	6.00	10.00
07	5.00	10.00
08	7.00	10.00
09	8.00	10.00
10	5.00	10.00
11	6.00	10.00
12	4.00	10.00
13	10.00	10.00
14	10.00	10.00
15	9.00	10.00
16	8.00	10.00
17	8.00	10.00
18	3.00	10.00
19	2.00	10.00
20	6.00	10.00
21	2.00	10.00
22	7.00	10.00
23	4.00	10.00
24	10.00	10.00
25	10.00	10.00
26	10.00	10.00
27	10.00	10.00
28	10.00	10.00
29	10.00	10.00
30	8.00	10.00
31	7.00	10.00
AVGS	6.28	10.00
MINIMUM VISIBILITY (MILES)		
<= .25	<= 3.0	>= 7.0
0	7	16

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA AUGUST 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: 0513 AUG 01 SUNSET: 1918 SUNRISE: 0518 AUG 07 SUNSET: 1912																									
01	OVC	120	9.00	-RA	74	69	71	85	7	17	29.99	30.17	01	FEW	030	6.00	BR	72	67	69	84	3	32	29.76	29.95
04	OVC	130	7.00		71	67	68	87	3	14	29.96	30.15	04	BKN	200	5.00	BR	71	66	68	84	3	34	29.76	29.95
07	OVC	100	6.00	HZ	73	67	69	81	0	00	30.00	30.19	07	SCT	250	7.00		72	66	68	82	6	36	29.79	29.97
10	OVC	110	8.00		74	68	70	82	0	00	30.02	30.21	10	BKN	250	10.00		81	65	71	58	9	02	29.82	30.01
13	OVC	100	10.00		77	68	71	74	7	03	30.01	30.20	13	BKN	250	10.00		85	63	71	48	5	VR	29.80	29.99
16	OVC	120	5.00	-RA BR	74	69	71	85	7	08	29.96	30.14	16	SCT	220	8.00		85	64	71	50	6	03	29.80	29.99
19	OVC	100	4.00	-RA BR	70	66	67	87	5	03	29.96	30.15	19	OVC	300	9.00		79	66	71	65	3	07	29.82	30.01
22	OVC	080	2.00	+RA BR	64	62	63	93	9	08	29.97	30.16	22	OVC	300	10.00		72	66	68	82	0	00	29.87	30.06
SUNRISE: 0514 AUG 02 SUNSET: 1917 SUNRISE: 0519 AUG 08 SUNSET: 1911																									
01	OVC	006	10.00		66	63	64	90	5	33	29.94	30.13	01	OVC	250	9.00		69	64	66	84	0	00	29.88	30.07
04	OVC	004	5.00	BR	67	64	65	91	8	34	29.91	30.10	04	OVC	250	10.00		66	62	64	87	0	00	29.89	30.08
07	OVC	004	1.00	BR	66	64	65	93	7	01	29.94	30.13	07	OVC	250	10.00		69	61	64	76	5	36	29.93	30.12
10	OVC	019	7.00		70	66	67	87	5	05	29.97	30.16	10	OVC	250	10.00		80	62	69	54	0	00	29.95	30.14
13	OVC	026	10.00		74	66	69	76	6	07	29.95	30.14	13	OVC	250	10.00		82	59	68	46	0	00	29.93	30.12
16	OVC	027	10.00		75	66	69	74	5	04	29.91	30.10	16	BKN	230	9.00		83	63	70	51	5	VR	29.90	30.09
19	OVC	080	7.00		72	69	70	91	0	00	29.90	30.09	19	BKN	240	9.00		78	65	70	64	3	15	29.89	30.08
22	OVC	020	2.50	-RA BR	71	68	69	90	0	00	29.91	30.10	22	OVC	075	10.00		75	65	69	71	3	17	29.92	30.11
SUNRISE: 0515 AUG 03 SUNSET: 1916 SUNRISE: 0520 AUG 09 SUNSET: 1910																									
01	OVC	033	1.25	+RA BR	71	69	70	94	0	00	29.89	30.08	01	BKN	090	10.00		71	66	68	84	5	19	29.93	30.12
04	OVC	010	7.00		71	69	70	94	7	27	29.89	30.07	04	OVC	100	10.00		73	66	69	79	3	24	29.92	30.11
07	BKN	250	10.00		72	68	69	87	3	29	29.89	30.08	07	BKN	250	10.00		72	64	67	76	0	00	29.94	30.13
10	OVC	180	10.00		76	66	70	72	0	00	29.92	30.11	10	OVC	250	10.00		76	63	68	64	7	21	29.96	30.15
13	BKN	200	10.00		81	67	72	62	6	25	29.90	30.09	13	OVC	250	10.00		78	62	68	58	8	19	29.96	30.15
16	OVC	300	10.00		83	66	72	57	7	20	29.85	30.04	16	BKN	300	9.00		77	64	69	64	5	VR	29.91	30.10
19	BKN	300	10.00		78	68	71	71	6	16	29.87	30.06	19	BKN	300	8.00		73	64	67	74	5	20	29.92	30.11
22	BKN	300	10.00		72	68	69	87	3	19	29.90	30.09	22	BKN	300	10.00		70	63	66	79	0	00	29.95	30.14
SUNRISE: 0516 AUG 04 SUNSET: 1915 SUNRISE: 0521 AUG 10 SUNSET: 1909																									
01	SCT	120	6.00	BR	71	68	69	90	5	22	29.90	30.09	01	OVC	100	9.00		69	65	66	87	0	00	29.93	30.12
04	OVC	004	4.00	BR	70	68	69	93	5	16	29.89	30.08	04	SCT	110	7.00		66	62	64	87	3	02	29.92	30.11
07	OVC	006	5.00	BR	72	69	70	91	5	19	29.92	30.11	07	BKN	250	7.00		69	63	65	81	0	00	29.96	30.15
10	BKN	250	9.00		78	68	71	71	0	00	29.93	30.12	10	OVC	250	10.00		79	64	69	60	6	08	29.96	30.15
13	BKN	250	10.00		84	66	72	55	6	VR	29.91	30.10	13	OVC	250	10.00		82	64	70	55	6	VR	29.95	30.14
16	BKN	260	10.00		85	67	73	55	6	15	29.87	30.06	16	SCT	300	10.00		83	61	69	48	9	16	29.91	30.10
19	BKN	250	10.00		80	68	72	67	3	12	29.86	30.05	19	SCT	300	10.00		76	62	67	62	6	11	29.91	30.09
22	SCT	250	8.00		73	70	71	90	5	13	29.90	30.09	22	FEW	300	10.00		70	60	64	71	8	11	29.93	30.12
SUNRISE: 0516 AUG 05 SUNSET: 1914 SUNRISE: 0522 AUG 11 SUNSET: 1908																									
01	SCT	250	4.00	BR	71	68	69	90	0	00	29.87	30.06	01	FEW	300	10.00		66	61	63	84	0	00	29.93	30.12
04	BKN	250	5.00	BR	71	68	69	90	0	00	29.85	30.04	04	SCT	300	10.00		63	60	61	90	0	00	29.91	30.10
07	SCT	250	2.00	BR	73	69	70	87	3	36	29.88	30.07	07	OVC	300	10.00		69	63	65	81	0	00	29.92	30.11
10	BKN	250	10.00		83	69	74	63	7	04	29.88	30.06	10	OVC	250	10.00		80	67	71	64	6	12	29.93	30.12
13	BKN	250	10.00		88	64	72	45	3	VR	29.83	30.01	13	OVC	250	10.00		84	65	72	53	6	14	29.89	30.08
16	SCT	250	10.00		85	65	72	51	6	15	29.78	29.97	16	OVC	200	10.00		81	68	72	65	10	10	29.84	30.03
19	BKN	250	10.00		81	67	72	62	3	15	29.78	29.96	19	BKN	110	10.00		75	70	72	84	7	10	29.83	30.02
22	SCT	130	10.00		76	68	71	77	0	00	29.79	29.97	22	OVC	110	10.00	-RA	74	69	71	85	8	12	29.84	30.03
SUNRISE: 0517 AUG 06 SUNSET: 1913 SUNRISE: 0522 AUG 12 SUNSET: 1907																									
01	BKN	250	9.00		75	69	71	82	3	20	29.77	29.96	01	BKN	100	10.00	-RA	72	69	70	91	0	00	29.80	29.99
04	OVC	250	10.00		75	67	70	76	5	30	29.75	29.94	04	OVC	075	10.00	-RA	72	69	70	91	0	00	29.76	29.95
07	SCT	250	10.00		76	67	70	74	5	27	29.77	29.96	07	OVC	100	10.00		74	70	71	88	6	12	29.74	29.93
10	BKN	250	10.00		83	66	72	57	5	32	29.77	29.96	10	OVC	070	10.00		80	73	75	79	11	16	29.71	29.90
13	BKN	250	10.00		89	61	71	39	0	00	29.74	29.93	13	BKN	037	10.00		84	73	76	70	9	18	29.66	29.85
16	OVC	090	8.00	-RA	79	69	72	72	9	36	29.72	29.91	16	BKN	250	10.00	-RA	80	75	76	85	5	17	29.60	29.79
19	OVC	250	10.00		79	67	71	67	5	34	29.75	29.93	19	BKN	250	10.00		78	74	75	87	3	11	29.60	29.79
22	SCT	250	8.00		73	68	70	84	0	00	29.76	29.95	22	BKN	250	10.00		75	73	74	94	5	12	29.62	29.81

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA
AUGUST 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		
																										DRY BULB	DEW POINT
SUNRISE: 0523 AUG 13					SUNSET: 1906					SUNRISE: 0528 AUG 19					SUNSET: 1857												
01	OVC	250	10.00		76	73	74	91	10	24	29.59	29.78	01	OVC	075	4.00	-RA BR	72	70	71	94	5	05	29.62	29.81		
04	SCT	250	10.00		73	69	70	87	5	29	29.58	29.77	04	OVC	003	4.00	BR	72	70	71	94	6	06	29.59	29.78		
07	SCT	250	10.00		74	68	70	82	7	30	29.65	29.84	07	BKN	055	6.00	BR	73	70	71	90	0	00	29.64	29.83		
10	SCT	100	10.00		81	60	68	49	15	33	29.67	29.86	10	BKN	044	10.00		79	70	73	74	7	36	29.68	29.86		
13	BKN	070	10.00		82	58	67	44	11	30	29.66	29.85	13	BKN	060	10.00		85	69	74	59	9	01	29.66	29.85		
16	BKN	075	10.00		84	58	68	41	6	30	29.65	29.84	16	BKN	085	10.00		80	73	75	79	7	07	29.66	29.84		
19	BKN	080	10.00		80	58	66	47	7	29	29.68	29.87	19	BKN	250	10.00		78	71	73	79	5	08	29.68	29.87		
22	OVC	080	10.00		76	59	66	56	11	33	29.74	29.93	22	BKN	150	10.00		75	71	72	88	5	10	29.73	29.92		
SUNRISE: 0524 AUG 14					SUNSET: 1904					SUNRISE: 0529 AUG 20					SUNSET: 1855												
01	FEW	050	10.00		69	56	61	63	3	29	29.76	29.95	01	CLR	NC	6.00	BR	73	70	71	90	0	00	29.72	29.91		
04	CLR	NC	10.00		64	55	59	73	0	00	29.77	29.96	04	SCT	060	7.00		71	68	69	90	3	03	29.74	29.93		
07	CLR	NC	10.00		68	56	61	65	5	31	29.81	30.00	07	BKN	130	10.00		74	68	70	82	5	07	29.79	29.98		
10	FEW	180	10.00		76	55	63	48	6	19	29.83	30.01	10	BKN	250	10.00		81	67	72	62	5	VR	29.82	30.01		
13	FEW	050	10.00		82	56	66	41	16	22	29.76	29.95	13	SCT	250	10.00		86	66	73	51	7	14	29.79	29.98		
16	BKN	085	10.00		83	58	67	43	16	22	29.72	29.91	16	SCT	250	10.00		86	67	73	53	7	16	29.77	29.96		
19	SCT	095	10.00		76	61	67	60	9	21	29.72	29.91	19	BKN	250	10.00		81	67	72	62	8	09	29.79	29.98		
22	FEW	070	10.00		74	62	67	67	8	24	29.77	29.96	22	BKN	210	10.00		76	69	71	79	0	00	29.84	30.02		
SUNRISE: 0525 AUG 15					SUNSET: 1903					SUNRISE: 0530 AUG 21					SUNSET: 1854												
01	SCT	110	10.00		69	62	65	78	0	00	29.78	29.97	01	OVC	090	10.00		74	69	71	85	0	00	29.82	30.00		
04	BKN	075	9.00		65	61	63	87	0	00	29.78	29.97	04	SCT	070	10.00		71	68	69	90	0	00	29.82	30.01		
07	SCT	250	10.00		66	54	59	65	10	02	29.84	30.03	07	BKN	003	2.00	BR	73	70	71	90	0	00	29.87	30.06		
10	BKN	250	10.00		74	52	61	46	3	03	29.88	30.06	10	CLR	NC	10.00		85	71	75	63	6	VR	29.88	30.06		
13	SCT	250	10.00		80	53	64	39	7	23	29.82	30.01	13	OVC	250	10.00		88	68	74	52	0	00	29.85	30.03		
16	BKN	300	10.00		82	55	66	40	6	23	29.79	29.97	16	OVC	250	9.00		89	69	75	52	6	01	29.82	30.01		
19	BKN	300	10.00		76	59	66	56	5	17	29.78	29.97	19	OVC	300	10.00		85	69	74	59	5	25	29.82	30.00		
22	BKN	230	10.00		71	61	65	71	5	16	29.79	29.98	22	OVC	120	10.00	-RA	83	72	75	70	5	24	29.83	30.01		
SUNRISE: 0526 AUG 16					SUNSET: 1902					SUNRISE: 0531 AUG 22					SUNSET: 1853												
01	BKN	090	10.00		69	64	66	84	0	00	29.79	29.98	01	OVC	120	10.00		80	69	73	69	8	26	29.79	29.98		
04	BKN	080	10.00		67	62	64	84	0	00	29.80	29.99	04	SCT	250	10.00		75	69	71	82	5	31	29.78	29.96		
07	CLR	NC	10.00		68	62	64	81	5	34	29.84	30.03	07	BKN	250	10.00		76	69	71	79	3	VR	29.82	30.00		
10	SCT	020	10.00		78	65	70	64	5	32	29.85	30.04	10	OVC	160	10.00		81	68	72	65	0	00	29.82	30.01		
13	SCT	250	10.00		85	58	68	40	10	27	29.82	30.01	13	OVC	060	10.00		80	69	73	69	3	04	29.81	30.00		
16	SCT	300	10.00		86	50	65	29	6	30	29.78	29.97	16	BKN	120	10.00		83	69	74	63	0	00	29.77	29.96		
19	BKN	300	10.00		80	52	63	38	5	30	29.79	29.98	19	OVC	300	10.00		79	71	74	77	5	07	29.77	29.96		
22	BKN	300	10.00		69	58	62	68	3	14	29.80	29.98	22	BKN	300	9.00		74	70	71	88	0	00	29.80	29.99		
SUNRISE: 0527 AUG 17					SUNSET: 1859					SUNRISE: 0532 AUG 23					SUNSET: 1851												
01	BKN	300	10.00		70	62	65	76	3	18	29.77	29.96	01	BKN	300	6.00	BR	73	70	71	90	5	09	29.79	29.98		
04	BKN	300	10.00		68	63	65	84	0	00	29.76	29.95	04	OVC	095	8.00	-RA	73	70	71	90	0	00	29.78	29.96		
07	OVC	250	8.00		71	67	68	87	0	00	29.78	29.97	07	OVC	080	7.00	-RA	72	70	71	94	8	04	29.81	30.00		
10	BKN	250	10.00		83	63	70	51	3	30	29.79	29.98	10	OVC	060	10.00	-RA	76	70	72	82	6	07	29.83	30.02		
13	BKN	080	10.00		87	63	71	45	5	33	29.76	29.94	13	OVC	050	10.00		77	70	72	79	3	04	29.82	30.01		
16	OVC	100	10.00		87	64	72	46	7	35	29.74	29.93	16	BKN	070	10.00		81	70	74	69	6	03	29.79	29.98		
19	OVC	300	10.00		83	64	71	53	5	25	29.74	29.93	19	OVC	040	10.00	-RA	73	69	70	87	9	04	29.82	30.01		
22	BKN	300	10.00		75	67	70	76	0	00	29.74	29.93	22	OVC	050	10.00		71	68	69	90	7	05	29.86	30.05		
SUNRISE: 0527 AUG 18					SUNSET: 1858					SUNRISE: 0533 AUG 24					SUNSET: 1850												
01	OVC	250	10.00		75	67	70	76	5	27	29.74	29.92	01	SCT	080	10.00		68	65	66	90	6	03	29.88	30.07		
04	OVC	250	7.00		69	66	67	90	0	00	29.72	29.91	04	SCT	060	10.00		67	64	65	91	5	36	29.87	30.06		
07	OVC	085	8.00		73	68	70	84	0	00	29.74	29.93	07	SCT	070	10.00		69	65	66	87	7	03	29.92	30.11		
10	OVC	180	10.00		78	70	73	76	3	11	29.73	29.92	10	SCT	035	10.00		76	59	66	56	14	07	29.95	30.14		
13	OVC	250	10.00		85	69	74	59	5	11	29.68	29.86	13	BKN	048	10.00		79	60	67	52	10	06	29.94	30.13		
16	SCT	110	10.00		76	71	73	85	7	20	29.65	29.84	16	BKN	060	10.00		79	58	66	49	14	05	29.91	30.10		
19	OVC	080	3.00	BR	74	71	72	91	6	13	29.63	29.82	19	SCT	300	10.00		72	57	63	59	3	06	29.92	30.11		
22	OVC	075	10.00		73	71	72	94	0	00	29.64	29.83	22	BKN	300	10.00		66	59	62	78	5	34	29.94	30.13		

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

AUGUST 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: 0533 AUG 25					SUNSET: 1849							
01	SCT	300	10.00		64	59	61	84	3	35	29.96	30.14
04	FEW	300	10.00		62	58	60	86	5	02	29.93	30.12
07	SCT	300	10.00		65	60	62	84	7	02	29.96	30.15
10	BKN	300	10.00		75	60	66	60	10	04	29.99	30.18
13	SCT	300	10.00		78	58	66	50	9	07	29.98	30.17
16	SCT	300	10.00		79	58	66	49	8	05	29.95	30.14
19	SCT	300	10.00		73	59	64	62	5	05	29.94	30.13
22	FEW	300	10.00		68	59	63	73	3	01	29.96	30.15
SUNRISE: 0534 AUG 26					SUNSET: 1847							
01	CLR	NC	10.00		64	59	61	84	0	00	29.95	30.14
04	CLR	NC	10.00		62	58	60	86	0	00	29.95	30.14
07	FEW	250	10.00		66	61	63	84	6	36	29.99	30.18
10	SCT	250	10.00		79	60	67	52	6	06	29.99	30.18
13	SCT	250	10.00		85	59	69	42	9	05	29.95	30.14
16	SCT	250	10.00		85	53	66	33	11	10	29.91	30.10
19	FEW	250	10.00		77	58	65	52	3	15	29.92	30.11
22	FEW	250	10.00		70	60	64	71	0	00	29.93	30.12
SUNRISE: 0535 AUG 27					SUNSET: 1846							
01	CLR	NC	10.00		64	61	62	90	0	00	29.89	30.08
04	CLR	NC	10.00		62	58	60	86	0	00	29.88	30.07
07	FEW	250	10.00		68	63	65	84	0	00	29.91	30.09
10	CLR	NC	10.00		82	64	70	55	7	01	29.89	30.08
13	FEW	070	10.00		87	61	70	42	0	00	29.83	30.02
16	FEW	060	10.00		89	58	69	35	3	05	29.78	29.96
19	FEW	300	10.00		79	61	68	54	5	14	29.75	29.94
22	FEW	300	10.00		76	64	68	67	0	00	29.77	29.96
SUNRISE: 0536 AUG 28					SUNSET: 1844							
01	SCT	250	10.00		73	63	67	71	0	00	29.73	29.91
04	SCT	250	10.00		74	64	68	71	3	30	29.73	29.92
07	BKN	250	10.00		77	67	70	71	11	01	29.78	29.97
10	OVC	250	10.00		85	68	74	57	9	02	29.80	29.99
13	BKN	250	10.00		90	64	73	42	7	34	29.78	29.97
16	BKN	250	10.00		92	54	68	28	8	32	29.76	29.95
19	BKN	300	10.00		82	57	67	42	5	05	29.80	29.98
22	OVC	080	10.00		77	61	67	58	5	04	29.87	30.05
SUNRISE: 0537 AUG 29					SUNSET: 1843							
01	BKN	060	10.00		72	60	65	66	6	02	29.91	30.09
04	FEW	060	10.00		66	59	62	78	5	02	29.92	30.10
07	BKN	250	10.00		67	58	62	73	8	04	29.98	30.17
10	BKN	250	10.00		78	59	66	52	6	VR	30.00	30.19
13	BKN	250	10.00		83	58	67	43	0	00	29.98	30.17
16	SCT	300	10.00		84	60	69	44	6	VR	29.95	30.14
19	BKN	300	10.00		77	62	68	60	10	12	29.97	30.16
22	OVC	055	10.00		73	62	66	69	8	13	30.02	30.21
SUNRISE: 0538 AUG 30					SUNSET: 1842							
01	BKN	070	10.00		69	63	65	81	5	05	30.03	30.22
04	OVC	060	10.00		70	63	66	79	0	00	30.03	30.22
07	BKN	050	10.00		72	64	67	76	5	14	30.05	30.24
10	OVC	019	10.00		78	66	70	67	7	16	30.06	30.24
13	BKN	025	10.00		86	70	75	59	8	12	30.01	30.19
16	BKN	090	10.00		89	71	76	55	7	17	29.95	30.14
19	SCT	300	10.00		81	72	75	74	7	13	29.94	30.13
22	FEW	300	9.00		79	73	75	82	8	16	29.96	30.15

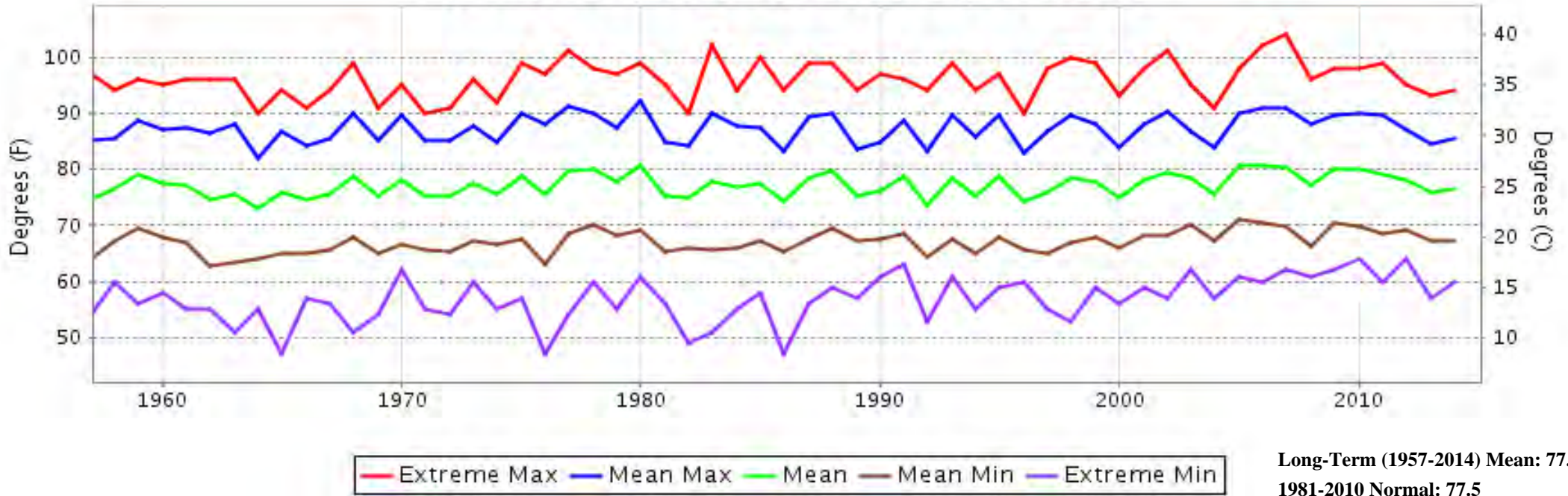
HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0538 AUG 31					SUNSET: 1840							
01	FEW	300	8.00		76	72	73	88	6	17	29.97	30.15
04	FEW	300	7.00		74	71	72	91	6	19	29.95	30.14
07	SCT	300	9.00		76	72	73	88	10	20	29.99	30.17
10	BKN	300	10.00		86	71	76	61	11	22	29.95	30.13
13	BKN	300	10.00		92	71	77	51	11	22	29.90	30.09
16	SCT	250	10.00		93	70	77	47	10	22	29.85	30.03
19	SCT	250	10.00		83	70	74	65	5	19	29.86	30.04
22	OVC	250	10.00		79	72	74	79	6	19	29.87	30.06

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.

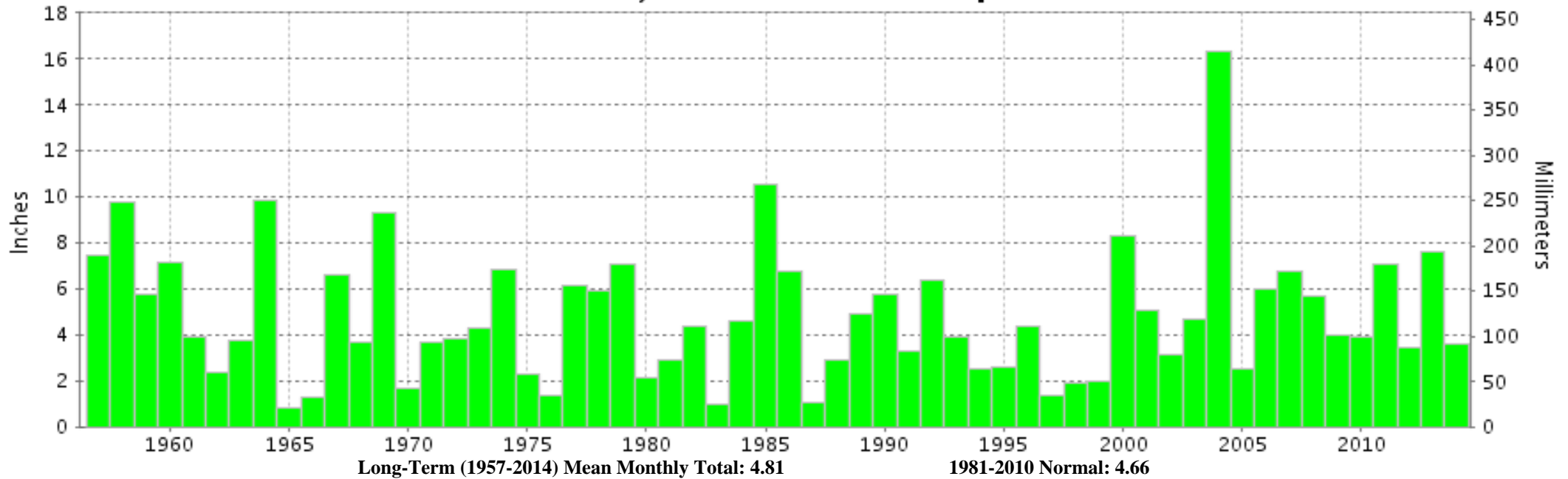
SUMMARY BY HOUR

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	71	66	68	84	29.84	30.03	8.62	3	1	28
02	70	65	67	85	29.84	30.02	8.84	3	1	28
03	69	65	67	86	29.83	30.02	8.56	3	0	03
04	69	65	66	86	29.83	30.02	8.45	3	1	28
05	69	65	66	87	29.84	30.03	8.63	3	1	28
06	69	65	66	87	29.85	30.04	8.08	4	1	28
07	71	65	67	82	29.87	30.05	8.32	4	1	08
08	74	65	69	75	29.87	30.06	9.32	5	2	09
09	77	65	70	69	29.88	30.06	9.61	6	2	09
10	79	65	70	63	29.88	30.07	9.81	6	2	09
11	81	64	70	58	29.87	30.06	9.87	6	1	09
12	83	64	71	54	29.86	30.05	10.00	7	1	08
13	83	64	71	53	29.85	30.04	10.00	6	0	05
14	83	64	71	54	29.84	30.02	9.42	7	0	07
15	83	64	71	54	29.82	30.01	9.84	7	1	08
16	83	64	71	55	29.81	30.00	9.61	7	1	08
17	82	64	70	56	29.81	30.00	9.26	7	0	07
18	80	65	70	60	29.81	30.00	9.23	7	2	09
19	78	65	70	66	29.82	30.01	9.35	5	2	09
20	75	66	69	74	29.83	30.02	9.55	4	2	09
21	74	66	69	76	29.84	30.03	9.74	5	2	09
22	73	66	69	78	29.85	30.03	9.31	4	2	09
23	72	66	68	81	29.85	30.04	9.19	3	1	07
24	71	66	68	83	29.84	30.03	8.94	4	1	08

RICHMOND, VA AUGUST Temperatures



RICHMOND, VA AUGUST Precipitation





**AUGUST 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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