



JANUARY 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



**JANUARY 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	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	58	37	48	11	33	42	17	0	RA	0		0.0	T	29.98	30.21	3.3	19	6.4	20	10	16	09	01						
02	47	43	45	8	45	45	20	0	RA DZ BR	0		0.0	0.73	30.08	30.26	7.1	02	7.5	17	01	14	36	02						
03	49	43	46	9	45	46	19	0	RA DZ BR	0		0.0	0.84	29.67	29.81	3.1	27	6.9	17	25	14	23	03						
04	63	38	51	14	37	45	14	0	BR	0		0.0	0.00	29.46	29.69	9.6	28	10.8	32	29	20	30	04						
05	39	30	35	-2	17	30	30	0	SN	0			T	29.78	29.98	1.3	31	4.3	15	33	12	33	05						
06	37	28	33	-3	23	30	32	0	SN BR	0		0.1	0.01	29.87	30.10	8.0	01	8.5	24	35	21	35	06						
07	29	12	21	-15	16	19	44	0	SN FG+ FZFG BR BLSN	3		7.0	0.56	30.05	30.26	11.9	35	12.7	29	35	22	34	07						
08	24	2	13	-23	2	11	52	0	BR	6		0.0	0.00	30.33	30.58	6.5	30	7.1	27	33	21	30	08						
09	24	0*	12*	-24	5	11	53	0		5		0.0	0.00	30.55	30.75	2.0	18	2.7	13	19	12	17	09						
10	38	12	25	-11	16	24	40	0		4		0.0	0.00	30.34	30.51	7.1	18	7.2	27	18	22	17	10						
11	51	37	44	8	43	44	21	0	RA BR	1		0.0	0.05	30.13	30.33	7.1	19	7.6	20	20	16	21	11						
12	70*	49	60*	24	52	56	5	0		0		0.0	0.00	30.04	30.24	15.0	21	15.3	38	23	30	22	12						
13	61	44	53	17	43	49	12	0		0		0.0	0.00	30.22	30.46	4.0	01	8.9	21	36	16	36	13						
14	44	37	41	5	33	38	24	0	RA	0		0.0	0.10	30.35	30.52	2.7	07	5.7	17	03	13	01	14						
15	50	38	44	8	33	39	21	0	RA BR	0		0.0	T	30.16	30.38	4.9	03	5.7	18	04	13	36	15						
16	43	37	40	4	37	39	25	0	RA BR	0		0.0	0.11	30.22	30.42	2.2	16	2.9	10	22	8	20	16						
17	59	40	50	14	48	49	15	0	RA BR	0		0.0	T	29.98	30.13	8.0	20	8.3	22	21	17	21	17						
18	64	43	54	18	46	51	11	0	RA BR	0		0.0	0.01	29.77	29.97	4.5	34	7.2	27	32	20	32	18						
19	55	38	47	11	37	41	18	0		0		0.0	0.00	29.88	30.07	1.5	02	3.1	12	36	9	04	19						
20	49	40	45	9	44	45	20	0	RA DZ FG+ FG BR	0		0.0	0.07	29.77	29.95	3.7	15	4.1	10	15	8	13	20						
21	50	46	48	12	48	48	17	0	RA DZ FG+ FG BR	0		0.0	0.38	29.69	29.87	2.2	15	4.6	14	03	12	03	21						
22	51	48	50	14	49	49	15	0	RA DZ FG+ FG BR	0		0.0	0.49	29.44	29.63	6.2	02	7.3	21	04	15	04	22						
23	53	39	46	10	48	48	19	0	RA DZ BR	0		0.0	0.88	29.18	29.37	14.4	03	16.2	37	06	26	06	23						
24	55	37	46	10	36	41	19	0	RA	0		0.0	T	29.34	29.57	13.5	31	14.5	32	32	25	30	24						
25	68	35	52	16	37	45	13	0		0		0.0	0.00	29.55	29.74	7.3	21	7.9	21	21	16	20	25						
26	68	42	55	18	35	46	10	0	RA	0		0.0	T	29.42	29.64	12.7	26	15.3	46*	27	33*	27	26						
27	48	34	41	4	22	33	24	0		0		0.0	0.00	29.67	29.86	11.3	27	11.7	29	27	24	27	27						
28	49	25	37	0	21	31	28	0		0		0.0	0.00	29.65	29.85	8.9	23	10.0	28	22	22	22	28						
29	49	29	39	2	26	34	26	0	RA	0		0.0	0.01	29.60	29.80	5.3	25	7.2	29	28	20	25	29						
30	41	25	33	-4	20	30	32	0	RA SN BR	0			T	29.70	29.93	8.1	29	10.0	31	35	24	29	30						
31	61	24	43	6	27	35	22	0		0		0.0	0.00	29.70	29.90	5.1	19	6.6	27	22	22	22	31						
										49.9				33.3		41.6		33.0		38.5		23.2		0.0		< MONTHLY AVERAGES TOTALS >			
										2.5				5.0		3.7		1.25		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
										DEGREE DAYS				GREATEST 24-HR PRECIPITATION : 1.08				DATE : 02-03				SEA LEVEL PRESSURE							
										MONTHLY				GREATEST 24-HR SNOWFALL : 7.0				DATE : 07				MAXIMUM : 30.85				DATE TIME			
										TOTAL DEPARTURE				GREATEST SNOW DEPTH : 6				DATE : 08				MINIMUM : 29.28				23 0854			
										HEATING : 718				-124				2042				-219				NUMBER OF ->			
										COOLING : 0				0				0				0				MAXIMUM TEMP >= 90 : 0			
																										MINIMUM TEMP <= 32 : 10			
																										PRECIPITATION >= 0.01 INCH : 14			
																										PRECIPITATION >= 0.10 INCH : 8			
																										SNOWFALL >= 1.0 INCH : 1			

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA (KRIC)
JANUARY 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												01	T	T	
02	0.01	0.01	T	0.01	0.07	0.06	0.13	0.12	0.04	0.03	0.01	0.02	02	0.04	0.05	0.06	0.05	0.01	T	T		0.01	T	T	02	0.73	0.73	
03		T	T	T	0.01	0.26	0.07	0.12	0.32	0.03	0.03	T	03												03	0.84	0.84	
04													04												04	0.00	0.00	
05													05											T	05	T	T	
06	T	T	T										06						T	T				T	06	0.01	0.01	
07	T	0.02	0.05	0.08	0.04	0.05	0.06	0.05	0.07	0.04	0.02	0.02	07	0.02	0.03	0.01	T	T						T	07	0.56	0.56	
08													08												08	0.00	0.00	
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
11	T	0.05	T										11												11	0.05	0.05	
12													12												12	0.00	0.00	
13													13												13	0.00	0.00	
14		T		T	0.01	0.02	0.02	T					14								T	0.03	0.02	T	14	0.10	0.10	
15													15											T	15	T	T	
16	0.01	0.01	0.01	0.05	0.02	0.01							16												16	0.11	0.11	
17													17		T										17	T	T	
18	0.01	T											18												18	0.01	0.01	
19													19												19	0.00	0.00	
20													20	0.01	0.01		T			T	T	T	T	T	20	0.07	0.07	
21													21							T	T	0.02	0.03	0.06	0.27	21	0.38	0.38
22	0.19	0.21	0.05	T									22	T	T	0.01	0.01				0.01	0.01	T	T	22	0.49	0.49	
23	0.02	T	T	0.01	T	0.02	T	T	0.28	0.32	0.09	0.04	23	0.01	0.03	0.02	0.01	0.01	T			T	T	0.02	23	0.88	0.88	
24	T	T											24												24	T	T	
25													25												25	0.00	0.00	
26						T	T	T	T				26												26	T	T	
27													27												27	0.00	0.00	
28													28												28	0.00	0.00	
29													29												29	0.01	0.01	
30	0.02	0.03	T										30												30	0.05	0.05	
31													31												31	0.00	0.00	

* Indicates sum of Hourly and Daily disagree.

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	0.11	0.20	0.24	0.26	0.39	0.49	0.54	0.57	0.60	0.60	0.67	0.70
Ending Date	23	23	23	23	23	23	23	23	23	23	23	23
Ending Time (Hr/Min)	0848	0909	0912	0916	0912	0916	0929	0936	0946	1033	1038	1107

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

RICHMOND, VA JANUARY 2017

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	10.00	10.00
02	2.00	8.00
03	1.00	10.00
04	2.50	10.00
05	10.00	10.00
06	2.50	10.00
07	0.25	10.00
08	5.00	10.00
09	9.00	10.00
10	10.00	10.00
11	5.00	10.00
12	10.00	10.00
13	10.00	10.00
14	8.00	10.00
15	5.00	10.00
16	4.00	10.00
17	4.00	10.00
18	1.50	10.00
19	10.00	10.00
20	0.25	10.00
21	0.25	4.00
22	0.25	10.00
23	1.00	7.00
24	6.00	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	10.00	10.00
31	10.00	10.00
AVGS	6.05	9.65
MINIMUM VISIBILITY (MILES)		
	<= .25	<= 3.0 >= 7.0
4	10	15

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

JANUARY 2017

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
				SUNRISE: 0724	JAN 01				SUNSET: 1702																
01	OVC	100	10.00		46	24	37	42	10	23	29.87	30.06	01	OVC	027	2.00	-SN	27	22	25	81	9	03	30.08	30.28
04	OVC	150	10.00		45	28	38	52	9	22	29.89	30.09	04	OVC	011	0.75	-SN BR	23	21	22	92	18	02	30.04	30.24
07	SCT	110	10.00		42	30	37	62	6	21	29.94	30.14	07	VV	007	0.50	SN FZFG	21	20	21	96	13	06	30.04	30.24
10	BKN	300	10.00		51	35	44	54	8	26	30.01	30.20	10	VV	011	0.50	SN FZFG	20	18	19	92	16	35	30.06	30.26
13	BKN	300	10.00		55	37	47	51	3	18	30.01	30.20	13	VV	016	0.50	SN FZFG	20	18	19	92	14	33	30.02	30.22
16	SCT	300	10.00		57	38	48	49	3	12	30.05	30.24	16	OVC	055	2.00	-SN BR	20	16	19	85	13	34	30.03	30.23
19	BKN	070	10.00		49	36	43	61	7	10	30.13	30.33	19	CLR	NC	10.00		18	9	16	68	10	33	30.07	30.28
22	OVC	045	10.00		48	33	42	56	8	10	30.16	30.35	22	CLR	NC	10.00		15	7	13	70	7	34	30.15	30.36
				SUNRISE: 0724	JAN 02				SUNSET: 1703																
01	OVC	029	8.00	-RA	45	40	43	83	5	07	30.15	30.34	01	CLR	NC	10.00		12	5	10	73	7	29	30.18	30.38
04	OVC	012	5.00	-RA BR	43	43	43	100	7	03	30.13	30.33	04	CLR	NC	7.00		4	2	4	91	3	31	30.24	30.45
07	OVC	004	2.50	RA BR	44	44	44	100	6	01	30.12	30.32	07	CLR	NC	10.00		7	1	6	76	8	30	30.33	30.53
10	OVC	004	6.00	-RA BR	46	46	46	100	8	02	30.12	30.31	10	CLR	NC	10.00		17	1	13	49	14	30	30.39	30.59
13	OVC	004	2.50	-RA BR	47	47	47	100	8	02	30.04	30.23	13	FEW	043	10.00		20	3	16	48	16	28	30.36	30.56
16	OVC	006	2.50	-RA BR	47	47	47	100	8	36	30.02	30.22	16	FEW	045	10.00		23	2	18	40	13	31	30.39	30.59
19	OVC	004	3.00	BR	45	45	45	100	9	36	30.03	30.23	19	CLR	NC	10.00		12	1	10	61	3	12	30.47	30.67
22	OVC	005	3.00	-DZ BR	45	45	45	100	6	01	30.00	30.19	22	CLR	NC	10.00		11	3	9	70	3	35	30.55	30.75
				SUNRISE: 0724	JAN 03				SUNSET: 1704																
01	OVC	003	1.50	BR	44	44	44	100	7	36	29.94	30.13	01	CLR	NC	10.00		5	-1	4	76	3	03	30.55	30.75
04	OVC	003	2.00	-DZ BR	44	44	44	100	8	03	29.85	30.04	04	CLR	NC	9.00		5	-0	4	79	3	02	30.55	30.75
07	OVC	006	2.50	RA BR	43	43	43	100	6	06	29.73	29.93	07	BKN	220	10.00		1	-3	0	83	0	00	30.58	30.79
10	OVC	010	4.00	RA BR	45	45	45	97	7	27	29.71	29.90	10	OVC	150	10.00		12	6	11	77	0	00	30.65	30.85
13	OVC	004	2.50	BR	46	46	46	100	5	27	29.56	29.76	13	OVC	140	10.00		21	5	17	50	7	21	30.56	30.76
16	OVC	007	10.00		47	46	47	97	9	24	29.49	29.68	16	SCT	250	10.00		22	8	18	55	6	18	30.51	30.71
19	OVC	007	10.00		47	46	47	97	10	24	29.47	29.65	19	SCT	250	10.00		15	6	13	67	3	19	30.50	30.71
22	OVC	005	10.00		48	47	48	96	11	23	29.44	29.62	22	SCT	250	10.00		12	9	11	87	3	18	30.50	30.71
				SUNRISE: 0724	JAN 04				SUNSET: 1704																
01	OVC	005	10.00		49	49	49	100	9	23	29.39	29.58	01	FEW	200	10.00		15	8	13	74	5	19	30.44	30.64
04	OVC	006	9.00		50	50	50	100	9	24	29.39	29.58	04	BKN	300	10.00		14	9	13	80	5	17	30.43	30.63
07	OVC	005	6.00	BR	48	48	48	100	5	22	29.41	29.61	07	BKN	300	10.00		17	10	15	74	3	18	30.41	30.61
10	OVC	250	10.00		54	51	52	90	7	26	29.47	29.66	10	OVC	250	10.00		25	16	22	69	7	18	30.41	30.62
13	BKN	250	10.00		62	44	53	52	17	29	29.45	29.64	13	OVC	250	10.00		33	15	27	47	9	16	30.29	30.49
16	BKN	250	10.00		57	26	44	30	20	30	29.50	29.69	16	OVC	250	10.00		37	20	31	50	6	18	30.23	30.43
19	SCT	250	10.00		49	25	39	39	8	27	29.60	29.79	19	BKN	250	10.00		37	22	32	54	9	18	30.22	30.42
22	SCT	250	10.00		43	12	33	28	14	29	29.69	29.89	22	BKN	250	10.00		37	23	32	57	15	17	30.14	30.34
				SUNRISE: 0724	JAN 05				SUNSET: 1705																
01	FEW	250	10.00		36	11	28	35	0	00	29.73	29.93	01	OVC	080	10.00	-RA	38	36	37	93	14	21	30.12	30.32
04	CLR	NC	10.00		34	13	27	42	6	28	29.78	29.98	04	OVC	095	6.00	BR	37	37	37	100	7	21	30.15	30.35
07	BKN	160	10.00		34	12	27	40	6	30	29.82	30.01	07	SCT	140	7.00		39	39	39	100	6	21	30.17	30.36
10	OVC	150	10.00		36	13	29	39	10	33	29.88	30.07	10	OVC	300	10.00		42	40	41	92	6	19	30.21	30.41
13	OVC	090	10.00		39	15	31	38	3	01	29.80	29.99	13	OVC	300	10.00		50	44	47	80	7	16	30.15	30.35
16	OVC	085	10.00		39	18	32	43	6	11	29.78	29.97	16	OVC	300	10.00		50	47	49	89	7	16	30.12	30.32
19	OVC	100	10.00		38	22	32	52	0	00	29.77	29.96	19	OVC	200	10.00		48	47	48	96	9	17	30.10	30.30
22	OVC	060	10.00		38	25	33	60	3	06	29.75	29.95	22	OVC	300	10.00		49	48	48	97	7	19	30.11	30.31
				SUNRISE: 0724	JAN 06				SUNSET: 1706																
01	OVC	048	10.00		37	26	33	65	5	36	29.71	29.91	01	OVC	200	10.00		51	50	50	96	10	19	30.06	30.26
04	OVC	080	10.00		37	27	33	67	5	02	29.71	29.90	04	BKN	200	10.00		52	51	51	97	10	20	30.07	30.27
07	OVC	065	10.00		34	26	31	73	11	01	29.81	30.01	07	OVC	170	10.00		55	53	54	93	11	20	30.06	30.26
10	OVC	070	10.00		33	22	29	64	14	03	29.90	30.10	10	OVC	300	10.00		61	55	58	81	17	21	30.09	30.28
13	OVC	060	10.00		35	21	30	57	8	01	29.92	30.11	13	OVC	300	10.00		69	53	60	57	23	22	30.01	30.20
16	OVC	060	10.00		34	19	29	54	9	01	29.97	30.16	16	OVC	300	10.00		69	53	60	57	17	22	30.00	30.19
19	OVC	035	2.50	-SN	29	22	27	75	8	04	30.04	30.24	19	OVC	300	10.00		64	52	57	65	16	21	30.02	30.22
22	OVC	065	10.00		28	23	26	81	3	07	30.06	30.26	22	OVC	300	10.00		62	51	56	67	15	21	30.05	30.24

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

JANUARY 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: 0723					JAN 13					SUNSET: 1713																
01	BKN	300	10.00		60	51	55	72	9	22	30.06	30.24	01	CLR	NC	10.00		42	35	39	76	7	01	29.89	30.08	
04	BKN	110	10.00		60	52	56	75	9	24	30.10	30.29	04	CLR	NC	10.00		39	35	37	86	7	36	29.90	30.09	
07	BKN	300	10.00		57	51	54	81	6	26	30.13	30.32	07	SCT	300	10.00		40	35	38	83	0	00	29.92	30.12	
10	OVC	300	10.00		61	50	55	67	11	02	30.25	30.45	10	OVC	250	10.00		46	38	42	73	0	00	29.96	30.15	
13	OVC	095	10.00		57	44	50	62	11	01	30.28	30.47	13	OVC	250	10.00		52	38	45	59	0	00	29.88	30.08	
16	BKN	300	10.00		54	40	47	59	9	36	30.32	30.51	16	BKN	250	10.00		54	38	46	55	3	29	29.85	30.04	
19	SCT	300	10.00		49	30	41	48	5	02	30.40	30.59	19	OVC	300	10.00		45	39	42	80	3	08	29.85	30.04	
22	OVC	110	10.00		45	27	38	49	7	05	30.45	30.64	22	OVC	200	10.00		42	39	41	89	5	13	29.84	30.03	
SUNRISE: 0723					JAN 14					SUNSET: 1714																
01	OVC	070	10.00		43	26	36	51	10	03	30.44	30.63	01	OVC	250	10.00		41	38	40	89	3	11	29.83	30.02	
04	OVC	060	10.00	-RA	41	26	35	55	8	01	30.46	30.66	04	OVC	250	10.00		41	39	40	93	5	14	29.79	29.98	
07	OVC	060	9.00	-RA	37	35	36	93	7	02	30.45	30.65	07	OVC	200	10.00		43	40	42	89	3	17	29.79	29.98	
10	OVC	049	10.00		37	31	35	79	8	03	30.46	30.66	10	OVC	150	10.00		45	41	43	86	3	15	29.78	29.98	
13	OVC	042	10.00		41	33	38	73	0	00	30.33	30.53	13	OVC	041	4.00	-RA BR	46	45	46	96	5	21	29.73	29.93	
16	OVC	035	10.00		42	36	39	79	6	17	30.25	30.44	16	OVC	020	3.00	-RA BR	48	47	48	96	5	12	29.69	29.88	
19	OVC	022	10.00		42	35	39	76	3	16	30.21	30.40	19	OVC	002	1.50	-DZ BR	48	48	48	100	5	17	29.72	29.91	
22	OVC	070	10.00	-RA	40	38	39	93	5	15	30.16	30.35	22	OVC	002	0.50	-DZ FG	47	47	47	100	0	00	29.74	29.94	
SUNRISE: 0723					JAN 15					SUNSET: 1715																
01	OVC	047	10.00		41	41	41	100	0	00	30.10	30.29	01	OVC	004	2.00	BR	48	48	48	100	3	20	29.74	29.93	
04	OVC	004	7.00		39	39	39	100	8	02	30.12	30.31	04	VV	002	0.50	FG	47	47	47	100	5	22	29.74	29.93	
07	OVC	003	6.00	BR	38	38	38	100	8	01	30.17	30.37	07	VV	002	0.50	FG	47	47	47	100	5	16	29.74	29.93	
10	OVC	050	10.00		41	36	39	82	10	02	30.23	30.43	10	OVC	002	0.75	BR	47	47	47	100	5	19	29.75	29.95	
13	BKN	050	10.00		46	26	38	46	10	01	30.18	30.38	13	OVC	003	2.00	BR	49	49	49	100	5	17	29.67	29.87	
16	BKN	180	10.00		48	27	39	44	7	03	30.17	30.37	16	OVC	003	1.50	BR	50	50	50	100	3	14	29.64	29.83	
19	BKN	150	10.00		44	29	38	55	7	07	30.20	30.40	19	OVC	002	0.25	-DZ FG	50	50	50	100	3	07	29.61	29.80	
22	OVC	036	10.00		43	26	36	51	0	00	30.23	30.42	22	OVC	002	0.50	-RA FG	50	50	50	100	6	04	29.57	29.76	
SUNRISE: 0722					JAN 16					SUNSET: 1716																
01	OVC	060	10.00	-RA	40	37	39	89	5	18	30.23	30.43	01	OVC	042	1.50	RA BR	49	49	49	100	8	05	29.49	29.68	
04	OVC	075	4.00	-RA BR	39	38	39	96	3	08	30.25	30.44	04	OVC	003	4.00	BR	49	49	49	100	5	03	29.48	29.67	
07	OVC	047	10.00		37	36	37	96	0	00	30.26	30.46	07	OVC	003	6.00	BR	48	48	48	100	3	36	29.48	29.67	
10	OVC	037	10.00		39	35	37	86	0	00	30.31	30.50	10	VV	002	0.50	FG	49	49	49	100	11	35	29.50	29.70	
13	OVC	039	10.00		42	36	39	79	3	VR	30.24	30.44	13	OVC	003	2.50	BR	50	50	50	100	8	03	29.39	29.57	
16	OVC	027	10.00		43	37	40	80	6	18	30.20	30.40	16	OVC	019	9.00		51	50	50	96	8	36	29.41	29.60	
19	OVC	065	10.00		42	38	40	85	3	15	30.18	30.38	19	OVC	004	1.50	BR	49	49	49	100	3	10	29.44	29.62	
22	OVC	013	10.00		43	40	42	89	7	20	30.17	30.37	22	OVC	011	2.00	BR	49	49	49	100	7	04	29.39	29.58	
SUNRISE: 0722					JAN 17					SUNSET: 1717																
01	OVC	009	7.00		42	41	42	96	6	20	30.11	30.31	01	OVC	008	1.25	-RA BR	50	50	50	100	10	05	29.33	29.52	
04	OVC	095	4.00	BR	41	41	41	100	5	21	30.07	30.26	04	OVC	005	3.00	-RA BR	50	50	50	100	16	05	29.23	29.41	
07	BKN	100	6.00	BR	43	42	43	97	6	18	30.03	30.23	07	OVC	011	2.50	-RA BR	51	51	51	100	23	06	29.12	29.30	
10	OVC	013	7.00	-RA	47	45	46	93	9	19	30.03	30.22	10	OVC	025	3.00	-RA BR	53	52	52	96	16	06	29.12	29.30	
13	OVC	180	10.00		57	51	54	81	11	21	29.92	30.11	13	OVC	026	2.00	-RA BR	52	52	52	100	13	04	29.12	29.30	
16	OVC	075	10.00		57	52	54	83	9	19	29.86	30.05	16	OVC	009	1.00	-RA BR	47	47	47	100	18	02	29.15	29.34	
19	OVC	160	10.00		56	53	54	90	11	22	29.84	30.03	19	OVC	008	1.00	BR	44	43	44	96	17	02	29.18	29.37	
22	SCT	100	10.00		56	54	55	93	9	21	29.80	29.99	22	OVC	012	3.00	-RA BR	41	40	41	96	16	34	29.25	29.43	
SUNRISE: 0722					JAN 18					SUNSET: 1718																
01	OVC	050	5.00	-RA BR	55	54	54	96	3	17	29.75	29.95	01	OVC	015	6.00	-RA BR	39	38	39	96	17	34	29.25	29.44	
04	OVC	170	5.00	BR	54	54	54	100	5	20	29.69	29.89	04	OVC	012	10.00		38	36	37	93	18	33	29.29	29.49	
07	OVC	180	1.50	BR	53	53	53	100	0	00	29.70	29.90	07	SCT	030	10.00		37	35	36	93	10	32	29.31	29.51	
10	BKN	060	10.00		58	55	56	90	7	34	29.76	29.96	10	SCT	150	10.00		44	35	40	71	21	33	29.39	29.57	
13	SCT	180	10.00		60	48	54	65	13	32	29.74	29.93	13	BKN	110	10.00		49	35	43	59	18	29	29.37	29.56	
16	SCT	065	10.00		61	37	49	41	11	33	29.78	29.97	16	SCT	250	10.00		55	38	47	53	17	31	29.37	29.56	
19	FEW	060	10.00		51	39	45	64	5	04	29.85	30.05	19	CLR	NC	10.00		51	37	45	59	7	28	29.45	29.65	
22	CLR	NC	10.00		47	37	43	69	8	01	29.88	30.08	22	CLR	NC	10.00		50	37	44	61	11	29	29.52	29.71	

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

JANUARY 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: 0718 JAN 25 SUNSET: 1725					01	CLR	NC	10.00		45	37	41	74	8	25	29.53	29.73
04	CLR	NC	10.00		42	37	40	82	7	24	29.57	29.76					
07	CLR	NC	10.00		38	34	36	86	0	00	29.61	29.81					
10	FEW	250	10.00		49	37	44	64	3	26	29.64	29.83					
13	FEW	250	10.00		61	35	49	38	8	21	29.57	29.76					
16	FEW	250	10.00		67	34	51	30	9	19	29.52	29.71					
19	SCT	300	10.00		56	39	48	53	9	19	29.50	29.69					
22	SCT	300	10.00		56	41	49	57	13	20	29.45	29.65					
SUNRISE: 0717 JAN 26 SUNSET: 1726					01	FEW	250	10.00		54	41	48	62	11	20	29.41	29.59
04	OVC	150	10.00		55	41	48	59	9	20	29.36	29.55					
07	OVC	110	10.00	-RA	57	46	51	67	13	21	29.36	29.54					
10	BKN	250	10.00		61	50	55	67	11	23	29.34	29.53					
13	SCT	120	10.00		65	36	51	34	21	30	29.34	29.52					
16	FEW	250	10.00		59	24	44	26	31	30	29.44	29.63					
19	FEW	060	10.00		48	24	38	39	16	30	29.59	29.78					
22	CLR	NC	10.00		44	25	37	47	13	26	29.65	29.85					
SUNRISE: 0717 JAN 27 SUNSET: 1728					01	CLR	NC	10.00		41	25	35	53	10	26	29.68	29.87
04	CLR	NC	10.00		37	26	33	65	8	25	29.68	29.88					
07	FEW	050	10.00		35	26	32	70	7	26	29.68	29.88					
10	FEW	050	10.00		45	23	36	42	14	29	29.70	29.90					
13	BKN	060	10.00		45	21	36	39	13	27	29.63	29.83					
16	BKN	070	10.00		44	18	35	35	18	28	29.62	29.82					
19	SCT	065	10.00		39	20	32	46	9	27	29.67	29.86					
22	FEW	060	10.00		36	18	30	48	9	29	29.69	29.88					
SUNRISE: 0716 JAN 28 SUNSET: 1729					01	CLR	NC	10.00		34	16	28	48	9	30	29.69	29.88
04	CLR	NC	10.00		26	18	23	71	7	21	29.68	29.88					
07	FEW	300	10.00		30	19	26	64	9	23	29.69	29.89					
10	BKN	055	10.00		36	21	31	55	10	23	29.70	29.90					
13	SCT	055	10.00		47	22	37	37	17	23	29.63	29.83					
16	FEW	065	10.00		49	21	38	33	15	25	29.59	29.78					
19	CLR	NC	10.00		38	23	32	55	9	20	29.61	29.81					
22	CLR	NC	10.00		34	23	30	64	7	20	29.64	29.84					
SUNRISE: 0715 JAN 29 SUNSET: 1730					01	CLR	NC	10.00		33	23	29	66	5	15	29.61	29.81
04	FEW	110	10.00		35	22	30	59	5	26	29.60	29.79					
07	FEW	110	10.00		30	22	27	72	5	20	29.62	29.82					
10	BKN	120	10.00		43	26	36	51	7	26	29.66	29.85					
13	BKN	150	10.00		48	23	38	37	8	28	29.58	29.77					
16	OVC	130	10.00		48	24	38	39	11	26	29.56	29.75					
19	BKN	140	10.00		39	30	35	70	3	04	29.58	29.78					
22	OVC	043	10.00		36	32	34	86	5	15	29.59	29.79					
SUNRISE: 0714 JAN 30 SUNSET: 1731					01	OVC	046	10.00	-RA	37	35	36	93	7	28	29.56	29.75
04	OVC	110	10.00		36	31	34	82	17	29	29.57	29.77					
07	OVC	090	10.00		33	29	31	85	7	29	29.66	29.85					
10	SCT	070	10.00		37	22	32	54	11	29	29.74	29.93					
13	BKN	070	10.00		38	14	30	37	11	29	29.74	29.93					
16	SCT	070	10.00		40	10	30	29	16	31	29.76	29.96					
19	CLR	NC	10.00		36	11	28	35	7	26	29.85	30.05					
22	CLR	NC	10.00		31	14	26	49	5	01	29.88	30.08					

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: 0714 JAN 31 SUNSET: 1732					01	CLR	NC	10.00		25	18	23	75	7	14	29.85	30.05
04	FEW	080	10.00		25	18	23	75	6	14	29.84	30.04					
07	SCT	300	10.00		30	19	26	64	9	15	29.74	29.93					
10	BKN	250	10.00		37	25	33	62	13	19	29.69	29.88					
13	BKN	250	10.00		52	30	42	43	16	23	29.58	29.77					
16	BKN	250	10.00		60	32	47	35	8	23	29.56	29.76					
19	BKN	250	10.00		45	35	41	68	3	16	29.64	29.84					
22	BKN	250	10.00		41	32	37	70	7	24	29.71	29.91					

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.

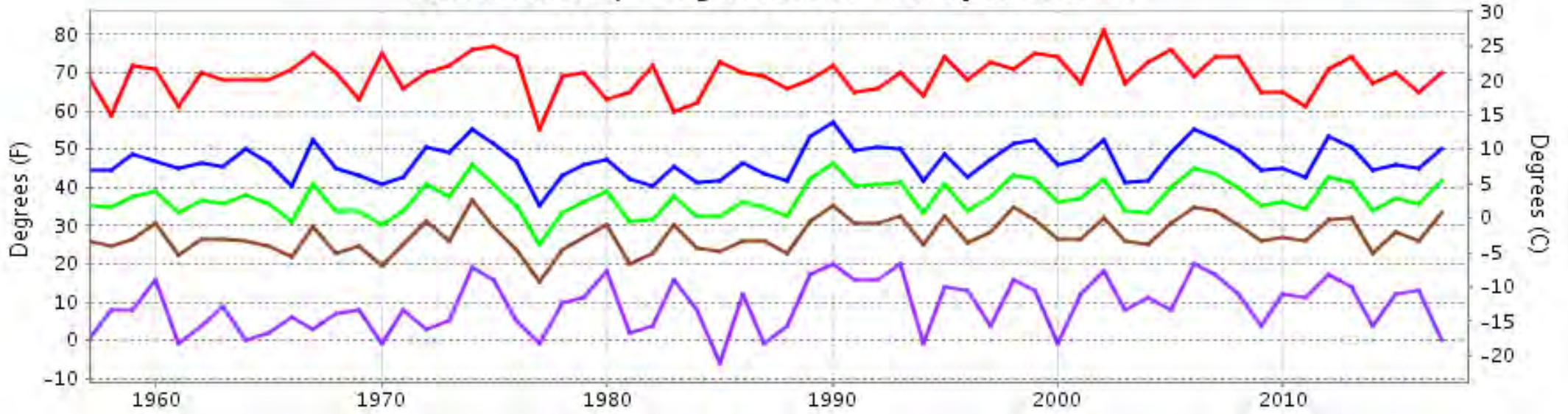
& = Original observation contained additional weather elements.

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	39	33	37	79	29.86	30.06	8.20	7	1	25
02	39	33	37	82	29.86	30.06	7.90	7	1	26
03	39	33	37	83	29.87	30.06	7.77	7	1	25
04	38	33	36	84	29.86	30.05	7.62	8	2	26
05	38	33	36	85	29.86	30.05	7.81	7	1	25
06	38	33	36	85	29.86	30.05	8.03	8	1	25
07	38	33	36	85	29.87	30.06	7.74	7	1	25
08	38	34	36	86	29.88	30.07	7.48	7	2	25
09	40	34	38	81	29.89	30.08	7.87	8	2	26
10	42	34	39	75	29.90	30.09	8.44	9	3	26
11	44	34	40	70	29.90	30.09	8.39	9	3	26
12	46	34	41	66	29.87	30.06	8.44	10	5	26
13	47	33	41	63	29.84	30.04	8.26	10	5	27
14	48	33	41	61	29.83	30.02	8.19	11	6	27
15	48	33	42	60	29.82	30.02	8.28	11	4	27
16	48	32	41	60	29.83	30.03	8.68	11	4	27
17	46	32	41	63	29.84	30.04	9.08	10	3	26
18	44	33	39	67	29.85	30.05	8.89	8	1	26
19	43	32	39	69	29.86	30.06	8.38	7	1	25
20	42	32	38	71	29.87	30.07	8.43	7	2	26
21	41	32	38	73	29.88	30.07	8.70	7	1	25
22	41	32	38	74	29.88	30.07	8.68	8	2	26
23	40	32	37	75	29.88	30.07	8.91	7	1	25
24	40	33	37	77	29.87	30.07	8.78	7	2	26

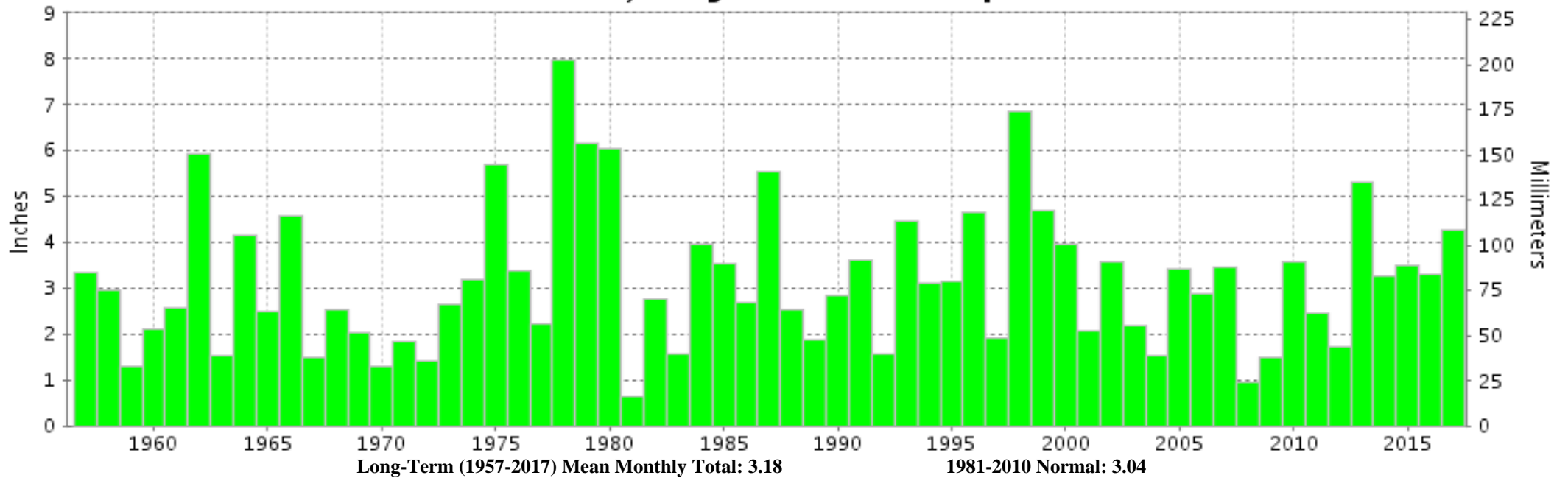
RICHMOND, VA JANUARY Temperatures



— Extreme Max
 — Mean Max
 — Mean
 — Mean Min
 — Extreme Min

Long-Term (1957-2017) Mean: 37.1
1981-2010 Normal: 37.9

RICHMOND, VA JANUARY Precipitation



Long-Term (1957-2017) Mean Monthly Total: 3.18

1981-2010 Normal: 3.04



JANUARY 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".

DIRECTOR (ACTING)

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