



JANUARY 2001

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

RICHMOND, VA

R.E.BYRD INTERNATIONAL AP. (RIC)
 Lat: 37°30' N Long: 77°19' W Elev (Ground): 165 Feet
 Time Zone: EASTERN WBAN: 13740 ISSN #:0198-537X

DATE	TEMPERATURE °F							DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								DATE																																																								
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING	0700 LST		1300 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM																																																														
																			5-SEC		2-MIN																																																												
1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24																																																											
01	38	22	30	-7	15	25	35	0			0.0	0.00	30.07	30.26	2.8	31	4.4	13	36	10	26	01																																																											
02	37	21	29	-8	13	24	36	0			0.0	0.00	30.19	30.39	9.2	33	10.2	24	32	22	32	02																																																											
03	38	12*	25*	-11	10	20	40	0			0.0	0.00	30.11	30.31	3.6	23	4.4	13	23	12	22	03																																																											
04	42	18	30	-6	17	25	35	0			0.0	0.00	29.87	30.07	1.1	26	4.6	14	01	12	23	04																																																											
05	42	18	30	-6	25	28	35	0	RA SN BR		T	0.01	29.57	29.77	5.3	20	5.9	23	16	17	16	05																																																											
06	49	23	36	0	27	33	29	0			0.0	0.00	29.60	29.80	7.3	28	8.3	24	28	20	32	06																																																											
07	58	23	41	5	28	36	24	0			0.0	0.00	29.69	29.88	5.8	21	6.7	20	24	15	23	07																																																											
08	48	36	42	6	34	37	23	0	RA BR		0.0	0.27	29.61	29.81	4.6	35	6.4	21	01	16	36	08																																																											
09	38	28	33	-3	17	28	32	0			0.0	0.00	29.79	29.99	10.0	32	11.3	25	33	21	31	09																																																											
10	52	27	40	4	11	29	25	0			0.0	0.00	29.94	30.14	7.7	26	8.4	21	31	15	26	10																																																											
11	63	24	44	8	17	34	21	0			0.0	0.00	29.93	30.13	4.1	24	4.9	17	26	15	25	11																																																											
12	48	28	38	2	26	35	27	0			0.0	0.00	29.97	30.17	6.4	05	6.9	17	03	15	03	12																																																											
13	50	25	38	2	24	31	27	0	BR		0.0	0.00	30.14	30.33	4.5	03	5.2	14	01	10	02	13																																																											
14	49	25	37	2	33	35	28	0	RA BR		0.0	0.04	30.06	30.25	0.8	02	2.0	12	32	9	15	14																																																											
15	59	37	48	13	43	44	17	0	RA FG+ MIFG BR		0.0	0.01	29.87	30.06	1.3	17	2.9	9	10	9	11	15																																																											
16	51	34	43	8	33	38	22	0	FG+ BR HZ		0.0	0.00	29.93	30.12	2.4	33	4.5	17	30	15	31	16																																																											
17	47	25	36	1	26	32	29	0	BR		0.0	0.00	30.06	30.26	0.7	23	1.9	15	22	10	23	17																																																											
18	40	34	37	2	34	36	28	0	RA BR		0.0	0.20	29.99	30.18	2.7	07	4.0	12	15	10	15	18																																																											
19	44	38	41	6	40	40	24	0	RA FG BR		0.0	0.93	29.69	29.88	2.7	03	3.3	15	04	13	04	19																																																											
20	39	34	37	2	36	37	28	0	RA DZ SN BR		T	0.36	29.67	29.86	8.9	36	10.8	21	02	17	30	20																																																											
21	40	24	32	-3	18	28	33	0	SN BR		0.3	0.02	30.04	30.24	7.5	30	8.0	30	29	25	29	21																																																											
22	39	22	31	-4	18	25	34	0			0.0	0.00	30.31	30.51	3.4	05	4.4	15	04	13	04	22																																																											
23	43	22	33	-2	22	27	32	0			0.0	0.00	30.06	30.26	4.2	02	4.7	14	01	12	03	23																																																											
24	50	23	37	2	24	31	28	0	BR		0.0	0.00	29.85	30.05	1.9	19	3.0	14	21	10	21	24																																																											
25	41	27	34	-2	18	29	31	0	SN		T	T	29.96	30.16	12.8	35	13.0	31	36	24	34	25																																																											
26	42	20	31	-5	15	27	34	0			0.0	0.00	30.05	30.25	2.6	21	7.0	23	21	17	21	26																																																											
27	55	26	41	5	19	33	24	0			0.0	0.00	29.83	30.02	8.9	27	12.4	38*	31	28	29	27																																																											
28	47	20	34	-2	17	29	31	0			0.0	0.00	30.13	30.33	2.2	23	2.8	15	24	13	24	28																																																											
29	53	31	42	6	24	34	23	0			0.0	0.00	30.07	30.26	4.5	13	5.8	16	14	14	13	29																																																											
30	67*	43	55*	19	44	50	10	0	RA BR		0.0	0.22	29.53	29.72	13.4	20	14.6	35	22	29*	23	30																																																											
31	64	39	52	16	36	45	13	0			0.0	0.00	29.56	29.75	8.3	26	11.5	32	27	25	26	31																																																											
47.5											26.7		37.1		■ ■		24.7		32.4		27.7		0.0		< MONTHLY AVERAGES		TOTALS->		0.3		2.06		29.91		30.10		2.1		30		6.6		<- MONTHLY AVERAGES																																						
1.8											1.0		1.4		■ ■		<-----DEPARTURE FROM NORMAL----->																				-1.18		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																																										
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.00 DATE :19-20										SEA LEVEL PRESSURE										DATE		TIME																																																	
MONTHLY TOTAL DEPARTURE										SEASON TO DATE TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 0.3 DATE :21										MAXIMUM										:		30.60		22		1054																																			
HEATING: 858										-50										2653										255										MINIMUM										:		29.56		30		1554																									
COOLING: 0										0										0										0										NUMBER OF DAYS WITH										->		MAXIMUM TEMP ≥ 90: 0										MINIMUM TEMP ≤ 32: 23										PRECIPITATION ≥ 0.01 INCH : 9									
																																																				MAXIMUM TEMP ≤ 32 : 0										MINIMUM TEMP ≤ 0 : 0										PRECIPITATION ≥ 0.10 INCH : 5									
																																																				THUNDERSTORMS : 0										HEAVY FOG : 2										SNOWFALL ≥ 1.0 INCH : 0									

JANUARY 2001
RICHMOND, VA

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA

JANUARY 2001

RIC

WBAN # 13740

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.
01													01												01		0.00		
02													02												02		0.00		
03													03												03		0.00		
04													04												04		0.00		
05											T		05		0.01										05		0.01		
06													06												06		0.00		
07													07												07		0.00		
08						T		T		0.02	0.04	0.04	0.04	0.06	0.02	0.02	0.02	0.01	T	T					08		0.27		
09													09												09		0.00		
10													10												10		0.00		
11													11												11		0.00		
12													12												12		0.00		
13													13												13		0.00		
14													14		T	0.01	0.02	T	0.01	T			T		14		0.04		
15			0.01	T									15												15		0.01		
16													16												16		0.00		
17													17												17		0.00		
18													18		0.01	0.03	0.04	0.08	0.02	0.01	T	T	0.01	T	18		0.20		
19													19		0.02	T	0.01	0.01	0.03	0.04	0.12	T	0.17	0.02	19		0.93		
20	0.06	0.02	0.01	0.01	0.05	0.05	0.05	0.05	T	T	0.02	T	20	T	T	T	T	0.02	T	T	0.01	T	0.01	20		0.36			
21	T	0.02	T	T	T								21												21		0.02		
22													22												22		0.00		
23													23												23		0.00		
24													24												24		0.00		
25													25				T								25		T		
26													26												26		0.00		
27													27												27		0.00		
28													28												28		0.00		
29													29												29		0.00		
30					T	0.02	0.01	0.03	0.07	0.04	0.05		30												30		0.22		
31													31												31		0.00		

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.09	.11	.16	.19	.22	.27	.28	.28	.29	.31	.33	.34
Ending Date	19	19	19	19	19	19	19	19	19	19	19	19
Ending Time (Hour/Min)	1852	1852	1901	1906	1910	1928	1932	1932	1932	1932	1932	1932

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. 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.

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.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

NORMALS ARE FOR THE YEARS 1961–1990

WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
	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	SQ Squalls
PR Partial	RA Rain	PY Spray	SS Sandstorm
SH Shower(s)	SG Snow Grains	SA Sand	GL Glaze
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unknown Precipitation		

Intensity (as indicated on pages 4 to 6):
'+' = Heavy ' ' = Moderate '- ' = Light

RICHMOND, VA JANUARY 2001

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).

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. 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.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

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

ADDITIONAL NOTES:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							10.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							1.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							2.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							7.00	10.00	
13							5.00	10.00	
14							.75	10.00	
15							.13	10.00	
16							<.25	10.00	
17							6.00	10.00	
18							1.50	10.00	
19							.00	10.00	
20							1.50	10.00	
21							1.00	10.00	
22							7.00	10.00	
23							7.00	10.00	
24							6.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							9.00	10.00	
29							9.00	10.00	
30							1.75	10.00	
31							10.00	10.00	
MONTHLY AVGS							6.65	9.97	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING 31									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0 3 9 19									

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

JANUARY 2001

RIC

WBAN # 13740

SATELLITE	WEATHER	TEMPERATURE °F			WIND	PRESSURE (INCHES, HG)		SATELLITE	WEATHER	TEMPERATURE °F			WIND	PRESSURE (INCHES, HG)									
		DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION			SEA LEVEL	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL				
SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLOUD AMT Oktas	VISIBILITY (MILES)	HOUR (LST)	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLOUD AMT Oktas	VISIBILITY (MILES)	HOUR (LST)	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLOUD AMT Oktas	VISIBILITY (MILES)	HOUR (LST)	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLOUD AMT Oktas	VISIBILITY (MILES)	
SUNRISE: 0724 JAN 01 SUNSET: 1702												SUNRISE: 0724 JAN 07 SUNSET: 1707											
01	CLR	NC		10.00	01	SCT	NC			10.00	01	OVC	110			10.00	01	OVC	110			10.00	
04	CLR	NC		10.00	04	CLR	NC			10.00	04	OVC	080			10.00	04	OVC	080			10.00	
07	OVC	200		10.00	07	SCT	NC			10.00	07	OVC	050	9.00	-RA	10.00	07	OVC	050	9.00	-RA	10.00	
10	OVC	250		10.00	10	BKN	250			10.00	10	OVC	035	2.50	-RA BR	10.00	10	OVC	035	2.50	-RA BR	10.00	
13	BKN	200		10.00	13	SCT	NC			10.00	13	OVC	006	3.90	-RA BR	10.00	13	OVC	006	3.90	-RA BR	10.00	
16	BKN	250		10.00	16	OVC	150			10.00	16	OVC	004	3.00	-RA BR	10.00	16	OVC	004	3.00	-RA BR	10.00	
19	OVC	110		10.00	19	OVC	250			10.00	19	OVC	010	8.00		10.00	19	OVC	010	8.00		10.00	
22	BKN	250		10.00	22	BKN	110			10.00	22	OVC	049			10.00	22	CLR	NC			10.00	
SUNRISE: 0724 JAN 02 SUNSET: 1703												SUNRISE: 0724 JAN 08 SUNSET: 1708											
01	OVC	085		10.00	01	OVC	110			10.00	01	OVC	055			10.00	01	BKN	150			10.00	
04	BKN	055		10.00	04	OVC	080			10.00	04	OVC	065			10.00	04	SCT	NC			10.00	
07	OVC	070		10.00	07	OVC	050			10.00	07	OVC	070			10.00	07	CLR	NC			10.00	
10	CLR	NC		10.00	10	OVC	035			10.00	10	CLR	NC			10.00	10	CLR	NC			10.00	
13	FEW	NC		10.00	13	OVC	006			10.00	13	SCT	NC			10.00	13	CLR	NC			10.00	
16	CLR	NC		10.00	16	OVC	004			10.00	16	FEW	NC			10.00	16	CLR	NC			10.00	
19	CLR	NC		10.00	19	OVC	010			10.00	19	CLR	NC			10.00	19	CLR	NC			10.00	
22	CLR	NC		10.00	22	OVC	049			10.00	22	CLR	NC			10.00	22	CLR	NC			10.00	
SUNRISE: 0724 JAN 03 SUNSET: 1704												SUNRISE: 0724 JAN 09 SUNSET: 1709											
01	CLR	NC		10.00	01	OVC	055			10.00	01	OVC	055			10.00	01	BKN	150			10.00	
04	CLR	NC		10.00	04	OVC	065			10.00	04	OVC	065			10.00	04	SCT	NC			10.00	
07	CLR	NC		10.00	07	OVC	070			10.00	07	OVC	070			10.00	07	CLR	NC			10.00	
10	CLR	NC		10.00	10	CLR	NC			10.00	10	CLR	NC			10.00	10	CLR	NC			10.00	
13	CLR	NC		10.00	13	SCT	NC			10.00	13	SCT	NC			10.00	13	CLR	NC			10.00	
16	CLR	NC		10.00	16	FEW	NC			10.00	16	FEW	NC			10.00	16	CLR	NC			10.00	
19	CLR	NC		10.00	19	CLR	NC			10.00	19	CLR	NC			10.00	19	CLR	NC			10.00	
22	CLR	NC		10.00	22	CLR	NC			10.00	22	CLR	NC			10.00	22	CLR	NC			10.00	
SUNRISE: 0724 JAN 04 SUNSET: 1705												SUNRISE: 0724 JAN 10 SUNSET: 1710											
01	CLR	NC		10.00	01	BKN	150			10.00	01	BKN	150			10.00	01	BKN	150			10.00	
04	FEW	NC		10.00	04	SCT	NC			10.00	04	SCT	NC			10.00	04	SCT	NC			10.00	
07	BKN	250		10.00	07	CLR	NC			10.00	07	CLR	NC			10.00	07	CLR	NC			10.00	
10	CLR	NC		10.00	10	CLR	NC			10.00	10	CLR	NC			10.00	10	CLR	NC			10.00	
13	CLR	NC		10.00	13	CLR	NC			10.00	13	CLR	NC			10.00	13	CLR	NC			10.00	
16	SCT	NC		10.00	16	CLR	NC			10.00	16	CLR	NC			10.00	16	CLR	NC			10.00	
19	SCT	NC		10.00	19	CLR	NC			10.00	19	CLR	NC			10.00	19	CLR	NC			10.00	
22	FEW	NC		10.00	22	CLR	NC			10.00	22	CLR	NC			10.00	22	CLR	NC			10.00	
SUNRISE: 0724 JAN 05 SUNSET: 1706												SUNRISE: 0724 JAN 11 SUNSET: 1711											
01	CLR	NC		10.00	01	CLR	NC			10.00	01	CLR	NC			10.00	01	CLR	NC			10.00	
04	BKN	200		10.00	04	CLR	NC			10.00	04	CLR	NC			10.00	04	CLR	NC			10.00	
07	OVC	110		10.00	07	CLR	NC			10.00	07	CLR	NC			10.00	07	CLR	NC			10.00	
10	OVC	060		10.00	10	CLR	NC			10.00	10	CLR	NC			10.00	10	CLR	NC			10.00	
13	OVC	060		10.00	13	SCT	NC			10.00	13	SCT	NC			10.00	13	CLR	NC			10.00	
16	SCT	NC		10.00	16	SCT	NC			10.00	16	SCT	NC			10.00	16	SCT	NC			10.00	
19	CLR	NC		10.00	19	BKN	250			10.00	19	BKN	250			10.00	19	BKN	250			10.00	
22	CLR	NC		10.00	22	OVC	250			10.00	22	OVC	250			10.00	22	OVC	250			10.00	
SUNRISE: 0724 JAN 06 SUNSET: 1706												SUNRISE: 0723 JAN 12 SUNSET: 1712											
01	FEW	NC		10.00	01	OVC	200			10.00	01	OVC	200			10.00	01	OVC	200			10.00	
04	CLR	NC		10.00	04	OVC	100			10.00	04	OVC	100			10.00	04	OVC	100			10.00	
07	CLR	NC		10.00	07	OVC	075			10.00	07	OVC	075			10.00	07	OVC	075			10.00	
10	CLR	NC		10.00	10	BKN	110			10.00	10	BKN	110			10.00	10	BKN	110			10.00	
13	FEW	NC		10.00	13	OVC	110			10.00	13	OVC	110			10.00	13	OVC	110			10.00	
16	FEW	NC		10.00	16	OVC	110			10.00	16	OVC	110			10.00	16	OVC	110			10.00	
19	CLR	NC		10.00	19	SCT	NC			10.00	19	SCT	NC			10.00	19	SCT	NC			10.00	
22	CLR	NC		10.00	22	BKN	120			10.00	22	BKN	120			10.00	22	BKN	120			10.00	

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

JANUARY 2001

RIC

WBAN # 13740

HOUR (LST)				SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES,HG)		HOUR (LST)				SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES,HG)				
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION
SUNRISE: 0723							JAN 13	SUNSET: 1713							SUNRISE: 0721							JAN 19	SUNSET: 1719							
01	FEW	NC			7.00		28	24	27	85	8	01	30.06	30.26	01	OVC	002			2.00	BR	38	38	38	100	3	09	29.83	30.02	
04	CLR	NC			6.00	BR	28	24	27	85	8	36	30.12	30.31	04	OVC	003			2.00	-RA BR	39	38	39	96	0	00	29.78	29.97	
07	CLR	NC			9.00		27	24	26	89	6	06	30.12	30.32	07	OVC	004				2	-RA BR	38	38	38	100	3	03	29.73	29.93
10	CLR	NC			10.00		36	28	33	73	8	03	30.19	30.39	10	OVC	002			0.75	-RA BR	40	40	40	100	0	00	29.70	29.90	
13	CLR	NC			10.00		47	22	37	37	8	04	30.15	30.35	13	OVC	002			0.25	-RA FG	42	42	42	100	0	00	29.60	29.80	
16	CLR	NC			10.00		49	22	38	35	0	00	30.13	30.32	16	OVC	011			1.75	BR	44	43	44	96	6	33	29.60	29.79	
19	CLR	NC			10.00		37	22	32	54	0	00	30.13	30.33	19	OVC	003			1.75	+RA BR	43	43	43	100	5	03	29.64	29.84	
22	CLR	NC			10.00		32	23	29	69	0	00	30.15	30.35	22	OVC	007			9.00	-RA	40	40	40	100	9	02	29.67	29.87	
SUNRISE: 0723							JAN 14	SUNSET: 1714							SUNRISE: 0721							JAN 20	SUNSET: 1720							
01	CLR	NC			10.00		27	22	25	81	0	00	30.13	30.32	01	OVC	006			7.00	-RA	39	38	39	96	13	01	29.70	29.90	
04	CLR	NC			10.00		28	23	26	81	0	00	30.11	30.30	04	OVC	004			10.00	-RA	39	38	39	96	8	01	29.69	29.89	
07	SCT	NC			10.00		27	23	26	85	0	00	30.10	30.30	07	OVC	006			7.00	RA	38	38	38	100	9	01	29.71	29.91	
10	BKN	250			9.00		39	31	36	73	0	00	30.12	30.32	10	OVC	008			2.00	-RA BR	38	37	38	97	13	03	29.72	29.91	
13	OVC	021			10.00		49	32	42	52	0	00	30.04	30.23	13	OVC	004			2.00	-DZ BR	38	37	38	97	9	04	29.65	29.84	
16	OVC	025			6.00	-RA BR	41	40	41	96	5	06	30.03	30.22	16	OVC	006			2.00	-DZ BR	37	36	37	96	9	01	29.61	29.81	
19	OVC	045			10.00		41	41	41	100	7	10	30.00	30.20	19	OVC	008			2.00	-DZ BR	36	35	36	97	9	32	29.61	29.81	
22	OVC	003			5.00	-RA BR	41	41	41	100	0	00	29.96	30.15	22	OVC	010			2.00	BR	34	32	33	92	10	33	29.66	29.85	
SUNRISE: 0723							JAN 15	SUNSET: 1715							SUNRISE: 0720							JAN 21	SUNSET: 1722							
01	VV	001			0.13	FG	42	42	42	100	0	00	29.95	30.15	01	OVC	010			3.00	-SN BR	34	33	34	97	9	28	29.69	29.89	
04	OVC	003			2.00	BR	40	40	40	100	3	21	29.93	30.12	04	OVC	030			5.00	-SN BR	30	24	28	79	15	30	29.81	30.01	
07	OVC	003			2.00	BR	39	39	39	100	0	00	29.94	30.13	07	CLR	NC			10.00		29	18	25	64	9	31	29.95	30.15	
10	OVC	002			1.50	BR	43	43	43	100	0	00	29.93	30.12	10	CLR	NC			10.00		32	18	27	56	14	34	30.09	30.29	
13	CLR	NC			7.00		51	46	49	83	5	VR	29.85	30.05	13	CLR	NC			10.00		38	14	30	37	7	34	30.10	30.30	
16	BKN	250			10.00		59	47	53	64	5	12	29.78	29.98	16	FEW	NC			10.00		40	12	31	32	8	27	30.12	30.31	
19	BKN	250			8.00		48	46	47	93	6	11	29.80	30.00	19	CLR	NC			10.00		31	17	26	56	0	00	30.17	30.37	
22	FEW	NC			0.75	BR	42	42	42	100	0	00	29.79	29.98	22	CLR	NC			10.00		26	19	24	75	0	00	30.22	30.42	
SUNRISE: 0722							JAN 16	SUNSET: 1716							SUNRISE: 0720							JAN 22	SUNSET: 1723							
01	VV	001			0.13	FG	38	38	38	100	8	36	29.79	29.99	01	CLR	NC			7.00		24	20	23	84	0	00	30.25	30.45	
04	VV	001			0.13	FG	40	31	36	70	6	32	29.81	30.01	04	CLR	NC			10.00		23	16	21	74	5	05	30.28	30.48	
07	OVC	003			4.00	BR	38	36	37	93	3	28	29.87	30.07	07	OVC	250			10.00		22	16	20	78	3	08	30.32	30.52	
10	VV	001			0.50	FG	39	39	39	100	3	22	29.92	30.12	10	BKN	200			10.00		29	18	25	64	10	04	30.40	30.60	
13	OVC	250			6.00	HZ	47	36	42	66	3	VR	29.92	30.11	13	BKN	250			10.00		38	19	31	47	9	36	30.35	30.55	
16	OVC	220			10.00		49	28	40	45	9	31	29.93	30.12	16	SCT	NC			10.00		38	17	31	43	3	11	30.29	30.49	
19	OVC	250			10.00		39	29	35	67	0	00	29.99	30.18	19	CLR	NC			10.00		30	19	26	64	6	05	30.30	30.50	
22	BKN	250			10.00		37	27	33	67	3	09	30.06	30.25	22	CLR	NC			10.00		27	20	25	75	0	00	30.27	30.47	
SUNRISE: 0722							JAN 17	SUNSET: 1717							SUNRISE: 0719							JAN 23	SUNSET: 1724							
01	BKN	250			10.00		32	27	30	82	0	00	30.07	30.26	01	CLR	NC			10.00		23	20	22	88	0	00	30.23	30.43	
04	SCT	NC			10.00		28	24	27	85	0	00	30.07	30.26	04	SCT	NC			10.00		23	20	22	88	5	35	30.20	30.40	
07	CLR	NC			7.00		26	23	25	88	0	00	30.08	30.28	07	OVC	250			8.00		23	20	22	88	5	35	30.19	30.38	
10	BKN	250			9.00		40	28	35	63	0	00	30.11	30.30	10	OVC	250			10.00		31	24	29	76	8	01	30.14	30.34	
13	OVC	150			10.00		45	25	37	46	8	26	30.05	30.24	13	FEW	NC			10.00		39	23	33	53	9	36	30.03	30.23	
16	OVC	150			10.00		46	26	38	46	3	VR	30.02	30.22	16	FEW	NC			10.00		43	22	35	43	8	07	29.94	30.14	
19	OVC	250			10.00		39	28	35	65	0	00	30.04	30.24	19	FEW	NC			10.00		32	21	28	64	0	00	29.95	30.14	
22	OVC	250			10.00		37	28	34	70	3	06	30.06	30.25	22	CLR	NC			10.00		29	22	27	75	3	34	29.94	30.14	
SUNRISE: 0721							JAN 18	SUNSET: 1718							SUNRISE: 0718							JAN 24	SUNSET: 1725							
01	OVC	100			10.00		36	28	33	73	3	07	30.05	30.24	01	CLR	NC			7.00		27	22	25	81	3	31	29.89	30.09	
04	OVC	070			10.00		36	28	33	73	0	00	30.05	30.25	04	CLR	NC			7.00		25	22	24	88	0	00	29.88	30.08	
07	OVC	050			10.00		36	31	34	82	3	12	30.05	30.24	07	OVC	250			7.00		25	22	24	88	0	00	29.89	30.09	
10	OVC	035			9.00		38	32	36	79	6	12	30.05	30.25	10	BKN	150			8.00		35	25	31	67	3	25	29.91	30.11	
13	OVC	025			4.00	-RA BR	40	36	38	86	5	01	29.99	30.19	13	FEW	NC			10.00		46	24	37	42	7	21	29.84	30.03	
16	OVC	015			1.50	-RA BR	38	38	38	100	3	08	29.94	30.14	16	BKN	250			10.00		49	24	39	38	7	16	29.80	29.99	
19	OVC	003			2.00	-RA BR	38	38	38	100	7	36	29.91	30.11	19	BKN	250			10.00		40	25	34	55	3	16	29.80	30.00	
22	OVC	002			2.00	-RA BR	38	38	38	100	3	05	29.90	30.09	22	SCT	NC			10.00		32	26	30	79	6	22	29.80	30.00	

OBSERVATIONS AT 3-HOURLY INTERVALS

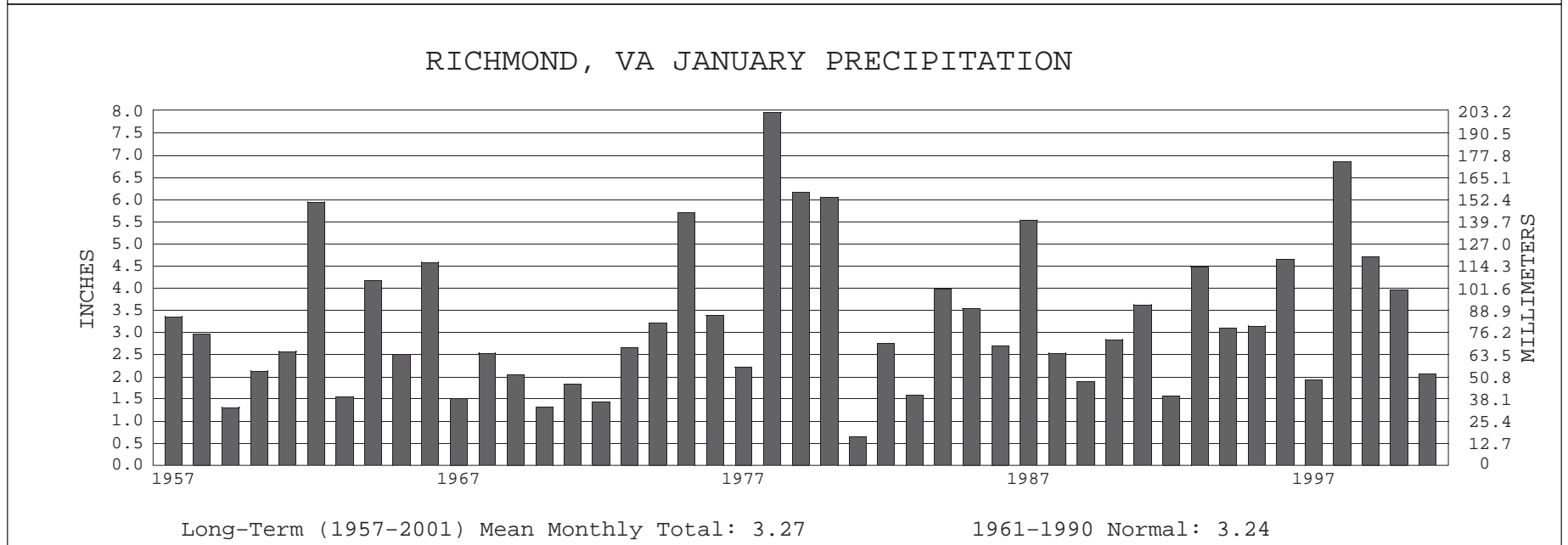
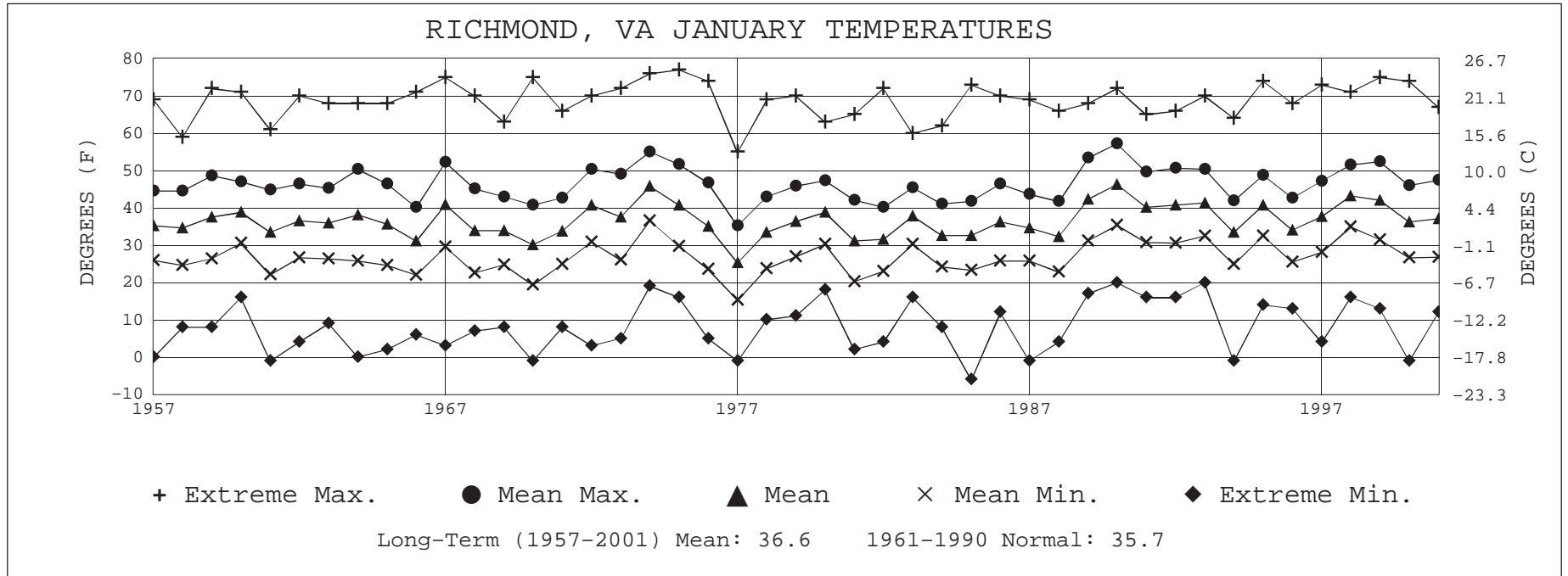
RICHMOND, VA

JANUARY 2001

RIC

WBAN # 13740

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)												
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)		EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL									
SUNRISE: 0718						JAN 25						SUNSET: 1726						SUNRISE: 0713						JAN 31						SUNSET: 1732								
01	OVC	250			10.00		37	27	33	67	3	36	29.79	29.98	01	CLR	NC			10.00		51	38	45	61	10	22	29.46	29.65									
04	OVC	250			10.00		32	24	29	73	6	01	29.81	30.01	04	CLR	NC			10.00		50	39	45	66	13	22	29.45	29.64									
07	OVC	085			10.00		33	23	30	67	10	01	29.87	30.07	07	SCT	NC			10.00		45	40	43	83	12	20	29.48	29.67									
10	BKN	085			10.00		35	20	30	54	18	35	29.94	30.14	10	FEW	NC			10.00		57	42	50	58	16	23	29.52	29.71									
13	SCT	NC			10.00		40	19	32	43	20	36	29.94	30.14	13	BKN	065			10.00		63	37	50	38	22	26	29.51	29.70									
16	BKN	065			10.00		38	14	30	37	22	34	29.98	30.17	16	BKN	200			10.00		59	33	47	38	14	31	29.58	29.77									
19	CLR	NC			10.00		32	12	26	43	14	35	30.08	30.28	19	SCT	NC			10.00		50	31	42	48	7	34	29.68	29.87									
22	CLR	NC			10.00		29	11	24	47	12	35	30.13	30.33	22	BKN	085			10.00		44	30	38	6	36	29.73	29.92										
SUNRISE: 0717						JAN 26						SUNSET: 1727						3-HOURLY OBSERVATION NOTES																				
01	CLR	NC			10.00		26	13	22	57	8	34	30.15	30.35	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, VV = Vertical Visibility = 8/8.																							
04	CLR	NC			10.00		24	14	21	65	5	33	30.18	30.38	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																							
07	CLR	NC			10.00		22	14	20	71	0	00	30.19	30.39	NC = No ceiling detected.																							
10	SCT	NC			10.00		32	15	27	50	7	02	30.19	30.39	& = Original observation contained additional weather elements.																							
13	OVC	250			10.00		37	11	29	34	6	25	30.07	30.27	See page 3 for additional notes.																							
16	BKN	250			10.00		41	16	32	36	8	17	29.98	30.18																								
19	OVC	140			10.00		37	16	30	42	10	15	29.90	30.10																								
22	OVC	080			10.00		38	16	31	41	12	18	29.85	30.05																								
SUNRISE: 0716						JAN 27						SUNSET: 1728						SUMMARY BY HOUR																				
01	OVC	065			10.00		38	16	30	41	16	21	29.76	29.96	AVERAGES												RESULTANT WIND (MPH)											
04	SCT	NC			10.00		37	17	30	44	12	22	29.72	29.91	HOUR (LST)	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION											
07	BKN	070			10.00		39	19	32	45	14	22	29.71	29.91								STATION	SEA LEVEL															
10	SCT	NC			10.00		46	26	38	46	16	24	29.74	29.94	01			33	24	30	72	29.90	30.10	8.46	5	2	28											
13	BKN	080			10.00		53	21	40	29	24	30	29.74	29.93	02			32	23	29	73	29.90	30.10	8.61	6	2	28											
16	FEW	NC			10.00		49	18	37	29	21	32	29.83	30.03	03			32	23	29	72	29.91	30.10	8.66	5	2	29											
19	CLR	NC			10.00		39	17	31	41	8	32	29.96	30.16	04			31	23	28	73	29.91	30.10	8.78	5	2	29											
22	CLR	NC			10.00		34	18	29	52	5	30	30.03	30.23	05			31	23	28	75	29.90	30.10	8.82	5	2	29											
SUNRISE: 0716						JAN 28						SUNSET: 1729						SUMMARY BY HOUR (Cont.)																				
01	CLR	NC			10.00		25	18	23	75	0	00	30.07	30.26	06			31	24	28	77	29.91	30.11	8.77	6	2	29											
04	CLR	NC			10.00		22	17	20	82	0	00	30.10	30.30	07			31	24	29	77	29.92	30.12	8.87	6	1	29											
07	BKN	250		9.00			22	18	21	85	3	01	30.15	30.35	08			31	25	29	78	29.93	30.13	8.15	5	1	29											
10	BKN	250		10.00			34	19	29	54	0	00	30.19	30.39	09			34	26	32	74	29.94	30.14	8.20	6	1	29											
13	BKN	250		10.00			43	15	33	32	6	23	30.14	30.34	10			38	26	34	66	29.95	30.15	8.43	8	2	31											
16	OVC	140		10.00			46	15	35	29	10	23	30.10	30.30	11			41	26	35	60	29.94	30.14	8.60	7	2	30											
19	OVC	140		10.00			41	16	32	36	5	20	30.13	30.33	12			43	26	36	55	29.92	30.11	8.81	8	4	30											
22	OVC	200		10.00			38	21	32	51	0	00	30.12	30.32	13			45	25	37	50	29.89	30.09	8.78	9	5	30											
SUNRISE: 0715						JAN 29						SUNSET: 1730						SUMMARY BY HOUR (Cont.)																				
01	OVC	250		9.00			33	20	29	59	0	00	30.12	30.32	14			46	25	38	48	29.87	30.07	8.98	9	5	30											
04	OVC	250		10.00			34	19	29	54	0	00	30.14	30.33	15			46	25	38	48	29.86	30.06	8.97	10	5	29											
07	OVC	090		10.00			35	20	30	54	6	05	30.16	30.35	16			45	25	38	49	29.87	30.06	8.85	9	4	29											
10	OVC	100		10.00			39	21	33	48	7	11	30.18	30.38	17			43	25	36	52	29.88	30.07	8.88	8	3	32											
13	BKN	250		10.00			50	21	39	32	8	14	30.07	30.27	18			40	25	35	56	29.89	30.09	9.06	7	2	32											
16	BKN	250		10.00			52	24	41	34	5	15	30.01	30.21	19			38	25	33	62	29.90	30.10	9.09	6	1	34											
19	OVC	150		10.00			42	29	37	60	10	13	29.98	30.18	20			36	25	32	65	29.91	30.10	9.02	6	1	35											
22	OVC	150		10.00			40	32	37	73	6	14	29.92	30.11	21			36	25	32	67	29.91	30.11	9.16	6	1	33											
SUNRISE: 0714						JAN 30						SUNSET: 1731						SUMMARY BY HOUR (Cont.)																				
01	OVC	100		10.00			44	28	38	53	6	16	29.84	30.03	22			35	25	31	69	29.91	30.11	8.99	5	1	32											
04	OVC	070		10.00			46	37	42	71	8	16	29.72	29.91	23			34	24	31	70	29.91	30.11	8.89	5	1	27											
07	OVC	090		4.00		-RA BR	51	50	51	96	14	17	29.59	29.78	24			33	24	30	71	29.90	30.10	8.70	5	2	27											
10	OVC	012		9.00			59	57	58	93	16	20	29.49	29.69																								
13	SCT	NC		10.00			66	53	59	63	17	23	29.41	29.60																								
16	FEW	NC		10.00			67	43	54	42	22	21	29.38	29.57																								
19	CLR	NC		10.00			59	40	50	49	13	22	29.43	29.62																								
22	CLR	NC		10.00			55	36	46	49	16	22	29.47	29.66																								





**JANUARY 2001
RICHMOND, VA**

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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DIRECTOR

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