



OCTOBER 2003

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

RICHMOND, VA

RICHMOND INTL AIRPORT (RIC)
 Lat: 37°30' N Long: 77°19' W Elev (Ground): 164 Feet
 Time Zone: EASTERN WBAN: 13740 ISSN #:0198-537X

OCTOBER 2003
RICHMOND, VA

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	66	49	58	-6	50	53	7	0			0.0	0.00	29.99	30.18	3.4	02	4.8	14	03	12	03	01		
02	64	43	54	-9	40	47	11	0			0.0	0.00	29.97	30.16	7.8	35	8.6	28	01	22	01	02		
03	61	36	49	-14	37	44	16	0			0.0	0.00	29.99	30.18	1.4	16	5.6	17	18	14	20	03		
04	73	43	58	-4	48	53	7	0	RA		0.0	T	29.75	29.94	7.1	22	10.2	32	21	24	22	04		
05	70	45	58	-4	47	52	7	0			0.0	0.00	29.85	30.04	1.4	20	3.5	17	24	13	31	05		
06	73	53	63	1	54	57	2	0	RA		0.0	T	29.90	30.09	2.3	04	3.7	14	36	10	32	06		
07	74	53	64	3	59	60	1	0	BR		0.0	0.00	29.99	30.18	2.5	08	4.3	14	13	13	13	07		
08	78	53	66	5	59	61	0	1	BR HZ		0.0	0.00	30.04	30.23	2.4	14	3.0	14	18	12	18	08		
09	78	59	69*	8	61	63	0	4	BR		0.0	0.00	30.00	30.18	5.3	06	5.8	16	08	14	09	09		
10	69	58	64	3	61	62	1	0	RA BR HZ		0.0	0.03	29.90	30.08	9.8	03	10.0	21	02	16	04	10		
11	66	61	64	4	60	61	1	0	RA DZ BR HZ		0.0	0.02	29.88	30.07	10.1	01	10.4	20	36	17	01	11		
12	79*	57	68	8	58	62	0	3	BR		0.0	0.00	29.74	29.93	3.8	31	5.1	17	31	14	31	12		
13	75	54	65	6	52	57	0	0			0.0	0.00	29.81	30.00	5.1	01	5.9	17	05	15	02	13		
14	73	54	64	5	58	60	1	0	RA BR		0.0	0.57	29.56	29.74	7.0	17	8.2	41*	27	33*	27	14		
15	69	42	56	-2	42	50	9	0			0.0	0.00	29.59	29.78	9.9	28	11.2	36	30	23	28	15		
16	70	40	55	-3	43	49	10	0			0.0	0.00	29.95	30.14	7.0	21	7.5	25	23	21	23	16		
17	69	44	57	-1	50	53	8	0	RA BR		0.0	0.12	29.93	30.11	2.9	01	5.7	22	36	16	36	17		
18	61	43	52	-6	44	48	13	0	BR		0.0	0.00	29.90	30.09	6.6	01	7.0	22	01	18	01	18		
19	72	39	56	-2	45	50	9	0			0.0	0.00	29.87	30.06	2.1	28	6.1	21	32	17	33	19		
20	71	45	58	1	49	53	7	0			0.0	0.00	29.97	30.16	2.4	18	3.8	14	18	12	20	20		
21	78	52	65	9	56	60	0	0	RA		0.0	T	29.54	29.73	10.6	23	12.4	29	23	23	24	21		
22	65	47	56	0	43	50	9	0	RA		0.0	T	29.46	29.65	10.3	34	10.9	31	33	25	32	22		
23	57	40	49	-7	34	42	16	0			0.0	0.00	29.64	29.83	5.6	35	6.6	22	30	18	31	23		
24	58	32*	45*	-10	35	41	20	0			0.0	0.00	30.06	30.25	0.9	10	2.8	13	02	10	03	24		
25	64	36	50	-5	49	51	15	0	RA BR		0.0	T	30.21	30.40	2.5	17	3.2	13	17	10	17	25		
26	71	61	66	11	63	64	0	1	RA DZ FG+ BR		0.0	0.15	29.99	30.18	9.1	19	9.6	24	18	20	19	26		
27	71	51	61	7	60	61	4	0	RA BR		0.0	0.18	29.65	29.83	5.4	19	10.0	30	30	24	32	27		
28	52	48	50	-4	47	48	15	0	RA BR		0.0	0.40	29.71	29.90	5.6	03	6.1	14	01	12	01	28		
29	65	42	54	0	48	50	11	0	RA BR		0.0	0.96	29.64	29.82	4.8	27	6.8	21	32	18	32	29		
30	68	39	54	0	42	48	11	0			0.0	0.00	30.08	30.27	3.3	15	4.0	15	16	13	14	30		
31	77	43	60	6	51	55	5	0			0.0	0.00	30.11	30.30	4.2	17	4.7	15	19	13	19	31		

68.9	47.2	58.1	■ ■	49.8	53.7	7.0	0.3	< MONTHLY AVERAGES	TOTALS-->	0.0	2.43	29.86	30.05	0.8	32	6.7	<-- MONTHLY AVERAGES				
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- .4										0.0										- .2										■ ■										<-----DEPARTURE FROM NORMAL----->										-1.17										SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
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DEGREE DAYS								GREATEST 24-HR PRECIPITATION: 1.36 DATE: 28-29				SEA LEVEL PRESSURE				DATE TIME			
MONTHLY TOTAL DEPARTURE				SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL: 0.0 DATE:				MAXIMUM : 30.45 25 1054				MINIMUM : 29.44 14 2054			
HEATING: 216		-9		229		-24		NUMBER OF DAYS WITH		MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 1		PRECIPITATION ≥ 0.01 INCH : 8					
COOLING: 9		-24		1327		-101				MAXIMUM TEMP ≤ 32 : 0		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 6					
										THUNDERSTORMS : 0		HEAVY FOG : 1		SNOWFALL ≥ 1.0 INCH : 0					

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA

OCTOBER 2003

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													05												05	T	0.00		
06													06												06		T		
07													07												07		0.00		
08													08												08		0.00		
09													09												09		0.00		
10													10												10		0.00		
11													11												11		0.03		
12													12												12		0.00		
13													13												13		0.00		
14													14												14		0.00		
15													15												15		0.00		
16													16												16		0.00		
17													17												17		0.12		
18													18												18		0.00		
19													19												19		0.00		
20													20												20		0.00		
21													21												21		T		
22													22												22		T		
23													23												23		0.00		
24													24												24		0.00		
25													25												25		0.00		
26													26												26		0.15		
27													27												27		0.18		
28													28												28		0.40		
29													29												29		0.96		
30													30												30		0.00		
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)												
Ending Date												
Ending Time (Hour/Min)												

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 1971–2000

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 OCTOBER 2003

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							9.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							6.00	10.00	
08							1.25	10.00	
09							4.00	10.00	
10							1.75	7.00	
11							2.00	9.00	
12							4.00	10.00	
13							10.00	10.00	
14							1.50	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							1.50	10.00	
18							5.00	10.00	
19							10.00	10.00	
20							8.00	10.00	
21							8.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							3.00	10.00	
26							.13	10.00	
27							1.50	10.00	
28							1.75	10.00	
29							2.00	10.00	
30							8.00	10.00	
31							8.00	10.00	
MONTHLY AVGS							6.41	9.87	
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 1 10 17									

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

OCTOBER 2003

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: 0604				OCT 01				SUNSET: 1753				SUNRISE: 0610				OCT 07				SUNSET: 1744									
01	SCT	NC			10.00	49	47	48	93	3	15	30.04	30.23	01	BKN	250			10.00	55	53	54	93	6	03	29.94	30.14		
04	BKN	250			10.00	52	49	50	89	3	19	30.02	30.22	04	BKN	100			10.00	54	54	54	100	7	02	29.96	30.15		
07	OVC	110			10.00	51	50	51	96	3	18	30.03	30.22	07	FEW	NC		BR	6.00	54	54	54	100	3	02	29.99	30.19		
10	OVC	085			10.00	60	49	54	67	5	03	30.02	30.22	10	CLR	NC			10.00	68	60	63	76	8	12	30.02	30.21		
13	BKN	070			10.00	63	50	56	63	3	02	29.97	30.16	13	BKN	030			10.00	72	62	66	71	0	00	29.98	30.17		
16	BKN	070			10.00	62	50	56	65	10	02	29.94	30.13	16	BKN	032			10.00	72	64	67	76	10	13	29.96	30.15		
19	OVC	050			10.00	58	53	55	84	7	03	29.96	30.15	19	FEW	NC			10.00	64	63	63	96	8	14	29.99	30.18		
22	OVC	046			10.00	56	53	54	90	8	01	29.96	30.15	22	FEW	NC			9.00	60	60	60	100	0	00	30.00	30.20		
SUNRISE: 0605				OCT 02				SUNSET: 1751				SUNRISE: 0611				OCT 08				SUNSET: 1743									
01	BKN	050			10.00	53	50	51	89	7	36	29.94	30.13	01	FEW	NC		BR	4.00	57	57	57	100	0	00	30.02	30.21		
04	BKN	046			10.00	50	48	49	93	6	34	29.93	30.12	04	SCT	NC		BR	6.00	55	55	55	100	0	00	30.03	30.23		
07	FEW	NC			10.00	50	47	48	89	0	00	29.94	30.13	07	FEW	NC		BR	3.00	55	55	55	100	3	01	30.05	30.24		
10	CLR	NC			10.00	60	39	50	46	12	29	29.95	30.15	10	BKN	250			10.00	73	60	65	64	0	00	30.08	30.27		
13	SCT	NC			10.00	62	36	50	38	9	31	29.92	30.11	13	OVC	250			10.00	77	59	66	54	5	VR	30.03	30.22		
16	SCT	NC			10.00	60	39	50	46	13	36	29.94	30.14	16	OVC	200			10.00	75	59	65	58	7	13	30.01	30.20		
19	CLR	NC			10.00	47	35	42	63	8	01	30.00	30.20	19	OVC	200			10.00	66	62	64	87	5	13	30.02	30.22		
22	CLR	NC			10.00	44	34	40	68	8	01	30.05	30.24	22	OVC	250			10.00	62	58	60	86	6	12	30.03	30.22		
SUNRISE: 0606				OCT 03				SUNSET: 1750				SUNRISE: 0612				OCT 09				SUNSET: 1741									
01	CLR	NC			10.00	42	31	38	65	9	01	30.05	30.24	01	BKN	120			9.00	59	58	58	96	0	00	30.02	30.21		
04	CLR	NC			10.00	38	34	36	86	5	02	30.06	30.25	04	BKN	100			7.00	61	60	60	97	3	01	29.99	30.18		
07	CLR	NC			10.00	39	35	37	86	5	35	30.09	30.29	07	OVC	110		BR	4.00	62	61	61	96	0	00	30.03	30.22		
10	FEW	NC			10.00	53	37	46	55	0	00	30.09	30.29	10	BKN	250			10.00	73	65	68	76	8	08	30.04	30.23		
13	SCT	NC			10.00	59	30	46	33	9	16	29.99	30.19	13	BKN	250			10.00	77	63	68	62	10	08	29.99	30.17		
16	SCT	NC			10.00	61	36	49	39	12	20	29.91	30.11	16	BKN	085			10.00	74	63	67	69	9	09	29.96	30.15		
19	SCT	NC			10.00	49	44	47	83	6	17	29.89	30.08	19	SCT	NC			10.00	66	62	64	87	6	06	29.96	30.15		
22	SCT	NC			10.00	47	44	46	90	5	15	29.86	30.05	22	FEW	NC			7.00	60	59	59	96	6	01	29.96	30.15		
SUNRISE: 0607				OCT 04				SUNSET: 1748				SUNRISE: 0612				OCT 10				SUNSET: 1740									
01	FEW	NC			10.00	45	41	43	86	6	20	29.84	30.03	01	CLR	NC		BR	4.00	60	60	60	100	7	05	29.93	30.12		
04	CLR	NC			10.00	44	42	43	93	5	19	29.78	29.97	04	FEW	NC		BR	4.00	60	60	60	100	9	02	29.89	30.07		
07	BKN	150			10.00	48	44	46	86	8	17	29.77	29.96	07	BKN	250		BR	1.75	59	59	59	100	9	36	29.91	30.11		
10	BKN	110			10.00	66	46	55	49	20	23	29.74	29.93	10	OVC	010		BR	5.00	65	62	63	90	9	03	29.93	30.12		
13	BKN	250			10.00	73	51	60	46	16	23	29.68	29.87	13	OVC	018		HZ	6.00	68	63	65	84	13	02	29.88	30.07		
16	OVC	250			10.00	71	52	60	51	15	23	29.67	29.86	16	OVC	050		BR	6.00	68	62	64	81	13	04	29.86	30.05		
19	OVC	250			10.00	64	55	59	73	6	23	29.71	29.90	19	OVC	029		BR	5.00	64	63	63	96	9	01	29.87	30.06		
22	OVC	055			10.00	62	57	59	84	16	02	29.78	29.97	22	OVC	150		BR	4.00	63	61	62	93	9	02	29.89	30.08		
SUNRISE: 0608				OCT 05				SUNSET: 1747				SUNRISE: 0613				OCT 11				SUNSET: 1738									
01	BKN	200			10.00	52	46	49	80	5	01	29.80	29.99	01	OVC	020		BR	3.00	62	61	61	96	7	01	29.89	30.08		
04	FEW	NC			10.00	47	46	46	97	3	14	29.81	30.00	04	OVC	040		BR	3.00	61	60	60	97	12	02	29.88	30.07		
07	FEW	NC			10.00	47	46	46	97	0	00	29.85	30.04	07	OVC	013		BR	2.00	61	58	59	90	12	02	29.91	30.10		
10	CLR	NC			10.00	63	44	53	50	7	24	29.88	30.08	10	OVC	013		BR	2.00	62	58	60	86	12	01	29.92	30.11		
13	CLR	NC			10.00	69	41	55	36	7	VR	29.85	30.04	13	OVC	015		HZ	6.00	65	59	61	81	12	01	29.88	30.08		
16	SCT	NC			10.00	69	44	56	41	0	00	29.82	30.01	16	OVC	028		BR	4.00	64	60	62	87	7	35	29.86	30.05		
19	OVC	250			10.00	58	53	55	84	3	15	29.85	30.04	19	OVC	030		BR	2.50	62	62	62	100	10	02	29.86	30.05		
22	BKN	250			10.00	54	51	52	90	3	16	29.88	30.08	22	OVC	030		BR	8.00	62	60	61	93	8	02	29.84	30.03		
SUNRISE: 0609				OCT 06				SUNSET: 1746				SUNRISE: 0614				OCT 12				SUNSET: 1737									
01	OVC	070			10.00	55	54	54	96	3	20	29.87	30.06	01	OVC	030		BR	7.00	62	60	61	93	3	31	29.81	30.00		
04	OVC	065			10.00	56	54	55	93	0	00	29.87	30.06	04	OVC	040		BR	4.00	62	60	61	93	7	31	29.77	29.96		
07	BKN	090			10.00	54	53	53	97	0	00	29.90	30.09	07	FEW	NC		BR	4.00	58	57	57	97	6	32	29.78	29.98		
10	SCT	NC			10.00	63	53	57	70	6	06	29.93	30.12	10	BKN	200			10.00	70	55	61	59	10	33	29.77	29.96		
13	FEW	NC			10.00	71	52	60	51	5	VR	29.88	30.07	13	SCT	NC			10.00	75	55	63	50	6	VR	29.71	29.90		
16	BKN	150			10.00	71	53	61	53	5	03	29.86	30.05	16	CLR	NC			10.00	78	58	66	50	8	27	29.68	29.87		
19	BKN	080			10.00	62	57	59	84	9	09	29.89	30.08	19	SCT	NC			10.00	67	62	64	84	0	00	29.70	29.90		
22	BKN	065			10.00	59	55	57	87	5	03	29.93	30.12	22	CLR	NC			10.00	62	60	61	93	0	00	29.72	29.91		

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

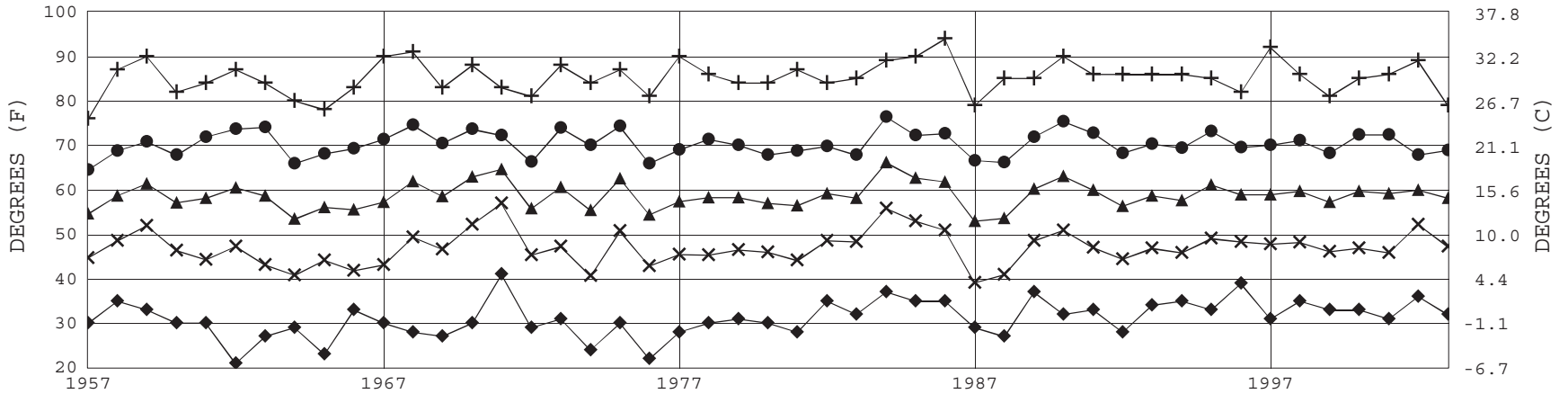
OCTOBER 2003

RIC

WBAN # 13740

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)			
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		
SUNRISE: 0627								OCT 25	SUNSET: 1720								SUNRISE: 0633								OCT 31	SUNSET: 1713							
01	CLR	NC			10.00			38	38	38	100	0	00	30.23	30.43	01	FEW	NC			10.00			49	45	47	86	3	15	30.14	30.33		
04	SCT	NC			10.00			36	36	36	100	0	00	30.24	30.43	04	CLR	NC			10.00			46	45	46	96	0	00	30.14	30.34		
07	SCT	NC			10.00			37	37	37	100	0	00	30.24	30.43	07	SCT	NC			8.00			45	44	45	97	0	00	30.14	30.34		
10	OVC	046			10.00			53	46	50	77	0	00	30.26	30.45	10	SCT	NC			10.00			63	51	56	65	8	21	30.14	30.33		
13	OVC	044			10.00			62	51	56	67	3	VR	30.21	30.41	13	BKN	250			10.00			72	55	62	55	8	16	30.10	30.29		
16	OVC	022			10.00			63	56	59	78	7	17	30.17	30.37	16	OVC	250			10.00			74	58	64	57	6	17	30.06	30.25		
19	OVC	017			10.00			60	60	60	100	6	14	30.17	30.36	19	BKN	250			10.00			62	55	58	78	8	19	30.07	30.26		
22	OVC	007			10.00			60	60	60	100	3	18	30.16	30.35	22	BKN	250			10.00			57	52	54	83	3	17	30.08	30.27		
SUNRISE: 0628								OCT 26	SUNSET: 1718								3-HOURLY OBSERVATION NOTES																
01	VV	001			0.50	FG		61	61	61	100	7	18	30.13	30.32	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	VV	001			0.25	-DZ FG		62	62	62	100	5	20	30.09	30.29	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																	
07	OVC	002			1.50	-DZ BR		62	62	62	100	10	20	30.07	30.27	NC = No ceiling detected.																	
10	OVC	250			8.00			67	63	64	87	12	21	30.05	30.24	& = Original observation contained additional weather elements.																	
13	OVC	029			10.00			70	64	66	82	13	19	29.97	30.16	See page 3 for additional notes.																	
16	OVC	035			10.00	-RA		68	67	67	96	18	21	29.92	30.11																		
19	OVC	060			7.00			63	63	63	100	7	16	29.90	30.09																		
22	OVC	150			5.00	BR		63	63	63	100	9	15	29.85	30.04																		
SUNRISE: 0629								OCT 27	SUNSET: 1717																								
01	OVC	150			8.00			63	63	63	100	9	17	29.80	29.99																		
04	OVC	055			10.00			63	61	62	93	10	17	29.72	29.91																		
07	OVC	070			10.00	-RA		62	62	62	100	9	17	29.66	29.86																		
10	OVC	006			6.00	BR		66	65	65	96	15	18	29.62	29.81																		
13	OVC	029			10.00			70	66	67	87	16	19	29.54	29.72																		
16	OVC	035			6.00	RA BR		58	57	57	97	14	31	29.55	29.75																		
19	OVC	043			10.00			58	56	57	93	6	33	29.61	29.80																		
22	OVC	007			10.00	-RA		53	53	53	100	13	03	29.68	29.87																		
SUNRISE: 0630								OCT 28	SUNSET: 1716																								
01	OVC	030			10.00			51	48	50	89	7	04	29.72	29.91																		
04	OVC	055			10.00			51	47	49	86	3	08	29.74	29.93																		
07	OVC	048			10.00			50	46	48	86	3	03	29.77	29.96																		
10	OVC	030			10.00			52	45	48	77	5	05	29.77	29.97																		
13	OVC	022			3.00	-RA BR		49	48	48	97	8	01	29.73	29.92																		
16	OVC	015			1.75	-RA BR		48	48	48	100	7	01	29.69	29.88																		
19	OVC	004			2.00	RA BR		48	48	48	100	8	03	29.67	29.86																		
22	OVC	005			2.00	-RA BR		48	48	48	100	7	35	29.62	29.81																		
SUNRISE: 0631								OCT 29	SUNSET: 1715																								
01	OVC	005			2.00	+RA BR		48	48	48	100	10	34	29.51	29.70																		
04	OVC	007			2.00	RA BR		47	47	47	100	10	32	29.51	29.70																		
07	OVC	005			2.00	-RA BR		48	48	48	100	0	00	29.51	29.69																		
10	OVC	008			10.00			52	52	52	100	7	27	29.57	29.76																		
13	BKN	060			10.00			62	51	56	67	9	27	29.60	29.79																		
16	SCT	NC			10.00			62	48	55	60	10	22	29.65	29.85																		
19	CLR	NC			10.00			55	42	49	62	7	24	29.76	29.96																		
22	CLR	NC			10.00			47	43	45	86	3	25	29.82	30.02																		
SUNRISE: 0632								OCT 30	SUNSET: 1714																								
01	CLR	NC			10.00			43	42	43	97	3	01	29.88	30.07																		
04	CLR	NC			10.00			40	40	40	100	0	00	29.97	30.16																		
07	CLR	NC			8.00			39	39	39	100	0	00	30.06	30.26																		
10	CLR	NC			10.00			59	40	50	49	6	13	30.13	30.33																		
13	CLR	NC			10.00			67	38	52	35	9	15	30.11	30.30																		
16	SCT	NC			10.00			67	41	54	39	6	15	30.09	30.28																		
19	SCT	NC			10.00			55	46	50	72	3	13	30.12	30.32																		
22	SCT	NC			10.00			51	44	48	77	6	14	30.14	30.33																		

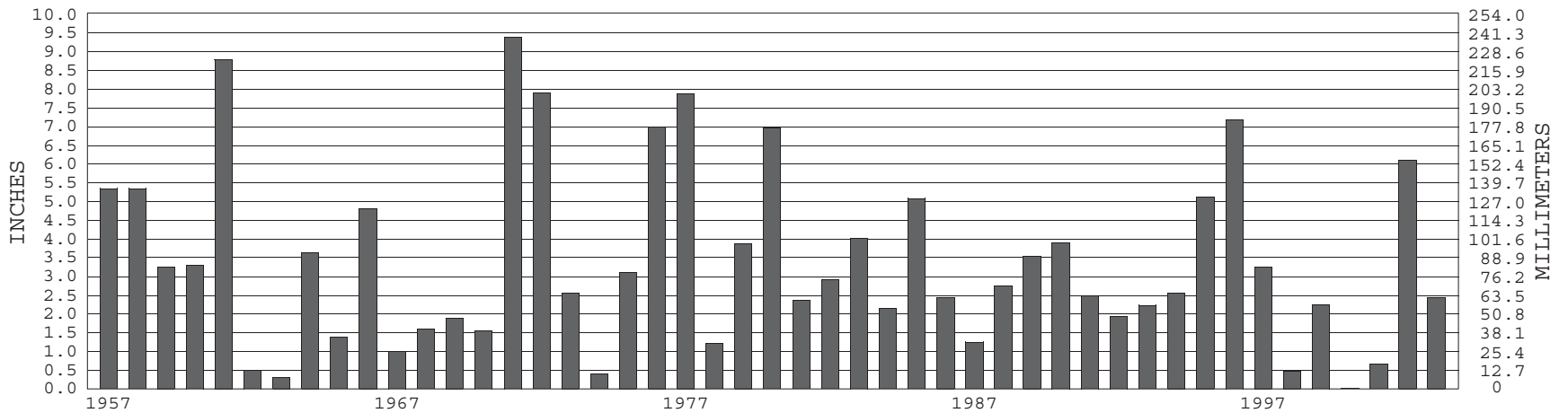
RICHMOND, VA OCTOBER TEMPERATURES



+ Extreme Max. ● Mean Max. ▲ Mean × Mean Min. ◆ Extreme Min.

Long-Term (1957-2003) Mean: 58.7 1961-1990 Normal: 58.3

RICHMOND, VA OCTOBER PRECIPITATION



Long-Term (1957-2003) Mean Monthly Total: 3.40

1961-1990 Normal: 3.60



OCTOBER 2003

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.

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