



SEPTEMBER 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

SEPTEMBER 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																																				
01	88	71	80	6	75	76	0	15	BR			0.0	0.00	29.99	30.18	8.8	21	9.1	21	22	18	21	01																																				
02	89	72	81*	7	74	76	0	16	BR			0.0	0.00	29.91	30.09	7.5	22	8.7	23	26	18	24	02																																				
03	89*	71	80	7	74	74	0	15	TS TSRA RA BR			0.0	0.27	29.85	30.03	3.9	17	4.9	20	19	15	20	03																																				
04	80	67	74	1	73	73	0	9	TSRA RA FG+ BR			0.0	2.46	29.71	29.90	5.9	22	7.3	24	23	22	22	04																																				
05	78	61	70	-3	61	64	0	5	BR			0.0	0.00	29.84	30.02	9.3	36	9.6	23	02	18	35	05																																				
06	75	57	66	-6	60	62	0	1				0.0	0.00	29.92	30.11	5.5	02	5.9	16	03	12	01	06																																				
07	79	58	69	-3	63	65	0	4	BR			0.0	0.00	29.88	30.07	2.6	04	3.6	14	06	12	05	07																																				
08	78	59	69	-3	65	66	0	4	BR			0.0	0.00	29.87	30.06	4.7	04	5.5	14	04	12	05	08																																				
09	75	61	68	-4	64	66	0	3	BR			0.0	0.00	29.98	30.17	10.0	03	10.3	23	03	20	04	09																																				
10	74	57	66	-5	58	61	0	1				0.0	0.00	30.04	30.22	9.5	02	9.8	22	03	17	03	10																																				
11	78	54	66	-5	58	61	0	1				0.0	0.00	30.00	30.18	7.5	04	8.2	22	07	17	04	11																																				
12	68	62	65	-6	65	65	0	0	RA BR			0.0	2.07	29.87	30.06	13.7	02	13.9	30	02	24	02	12																																				
13	78	68	73	2	71	71	0	8	RA DZ BR			0.0	0.10	29.86	30.05	3.7	09	8.9	21	01	16	01	13																																				
14	78	67	73	2	70	71	0	8	RA BR			0.0	T	29.98	30.17	4.3	16	4.7	12	16	9	17	14																																				
15	86	66	76	6	70	71	0	11	BR			0.0	0.00	29.87	30.05	2.7	36	3.6	17	01	14	01	15																																				
16	79	59	69	-1	58	62	0	4				0.0	0.00	29.97	30.15	7.2	01	7.8	24	35	17	01	16																																				
17	78	56	67	-3	58	62	0	2				0.0	0.00	30.00	30.19	10.3	03	10.8	29	04	22	04	17																																				
18	74	65	70	0	67	67	0	5	RA BR			0.0	4.32	29.49	29.67	17.4	06	25.3	72*	10	46*	09	18																																				
19	83	65	74	4	65	68	0	9	RA BR			0.0	T	29.72	29.91	12.3	20	12.8	41	19	29	18	19																																				
20	86	60	73	4	67	69	0	8	BR			0.0	0.00	29.97	30.15	1.0	08	1.2	9	07	8	10	20																																				
21	84	63	74	6	68	69	0	9	BR HZ			0.0	0.00	30.04	30.23	3.0	11	3.9	12	12	9	12	21																																				
22	79	63	71	3	69	70	0	6	RA FG+ BR			0.0	0.19	29.90	30.09	8.5	16	8.7	21	17	15	17	22																																				
23	80	59	70	2	64	66	0	5	RA BR			0.0	0.68	29.73	29.92	3.2	26	7.6	36	21	28	32	23																																				
24	77	56	67	0	58	61	0	2				0.0	0.00	29.93	30.12	2.5	04	4.8	14	02	12	02	24																																				
25	82	59	71	4	63	65	0	6	BR			0.0	0.00	29.84	30.02	4.9	21	5.0	20	20	16	21	25																																				
26	83	60	72	6	64	67	0	7	BR HZ			0.0	0.00	29.81	30.00	4.0	14	5.1	15	16	13	16	26																																				
27	81	63	72	6	66	68	0	7	RA BR			0.0	0.03	29.72	29.90	4.7	18	5.5	24	17	20	17	27																																				
28	74	57	66	0	61	63	0	1	BR			0.0	0.00	29.61	29.79	3.4	35	5.8	20	29	15	35	28																																				
29	69	50	60	-5	47	53	5	0				0.0	0.00	29.88	30.07	6.0	33	6.5	20	33	15	32	29																																				
30	68	45*	57*	-8	45	50	8	0				0.0	0.00	30.09	30.28	1.5	34	2.7	18	01	12	02	30																																				
										79.0		61.0		70.0		■ ■		64.0		66.1		0.4		5.7		< MONTHLY AVERAGES		TOTALS-->		0.0		10.12		29.88		30.06		1.7		04		7.6		<-- MONTHLY AVERAGES															
										-.7		1.1		0.2		■ ■		<-----DEPARTURE FROM NORMAL----->																				6.14		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																			
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 4.32 DATE: 18										SEA LEVEL PRESSURE										DATE		TIME																											
MONTHLY TOTAL DEPARTURE										SEASON TO DATE TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 0.0 DATE:										MAXIMUM		30.34		30		0854																							
HEATING: 13										-14										13										MINIMUM		29.21		18		1854																							
COOLING: 172										-15										1318										NUMBER OF DAYS WITH		MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH: 8																							
																						MAXIMUM TEMP ≤ 32: 0		MINIMUM TEMP ≤ 0: 0		PRECIPITATION ≥ 0.10 INCH: 7																																	
																						THUNDERSTORMS: 2		HEAVY FOG: 2		SNOWFALL ≥ 1.0 INCH: 0																																	

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA

SEPTEMBER 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	0.01	T	0.04	0.04	0.04	0.07	0.03					03			0.27	
04	0.40	0.05	0.01			0.03	T	0.01	T	T	T	0.25	04	0.06	0.08	1.45	0.05	0.06	0.01					04			2.46		
05													05												05			0.00	
06													06												06			0.00	
07													07												07			0.00	
08													08												08			0.00	
09													09												09			0.00	
10													10												10			0.00	
11													11												11			0.00	
12													12												12			2.07	
13	0.04	T											13	0.11	0.15	0.17	0.24	0.46	0.20	0.06	0.04	0.07	0.05	0.05	13			0.10	
14	T												14	T	T						T	T			14			T	
15													15												15			0.00	
16													16												16			0.00	
17													17												17			0.00	
18													18	0.34	0.62	0.69	0.42	0.27	0.51	0.33	0.26	0.07	0.01	T	T	18			4.32
19	T	T											19												19			T	
20													20												20			0.00	
21													21												21			0.00	
22													22						T	0.17	T	0.01	T		22			0.19	
23	0.05	0.02	0.02	0.05	0.22	0.32	T						23											0.01	23			0.68	
24													24												24			0.00	
25													25												25			0.00	
26													26												26			0.00	
27													27												27			0.03	
28													28									T	0.03	T	28			0.00	
29													29												29			0.00	
30													30												30			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)	.33	.50	.56	.71	.92	1.27	1.52	1.54	1.54	1.57	1.60	1.79
Ending Date	04	04	04	04	04	04	04	04	04	04	04	04
Ending Time (Hour/Min)	1439	1443	1448	1416	1419	1441	1448	1505	1529	1546	1617	1446

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 SEPTEMBER 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							4.00	10.00	
02							6.00	10.00	
03							2.00	10.00	
04							.25	10.00	
05							2.00	10.00	
06							10.00	10.00	
07							6.00	10.00	
08							5.00	10.00	
09							4.00	10.00	
10							10.00	10.00	
11							9.00	10.00	
12							.75	10.00	
13							2.00	10.00	
14							3.00	10.00	
15							2.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							.75	10.00	
19							3.00	10.00	
20							4.00	10.00	
21							2.00	10.00	
22							.13	10.00	
23							1.00	10.00	
24							9.00	10.00	
25							1.00	10.00	
26							1.50	10.00	
27							2.00	10.00	
28							3.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
MONTHLY AVGS							4.75	9.97	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING 30									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0 1 14 8									

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA SEPTEMBER 2003

RIC

WBAN # 13740

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)					
	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Oktas	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	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0539					SEP 01					SUNSET: 1839					SUNRISE: 0544					SEP 07					SUNSET: 1830				
01	OVC	005	6.00	BR	72	72	72	100	6	19	30.06	30.24	01	FEW	NC	9.00	BR	61	61	61	100	0	00	29.91	30.10				
04	OVC	010	7.00		73	73	73	100	6	24	30.04	30.22	04	CLR	NC	6.00		58	58	58	100	3	36	29.89	30.08				
07	OVC	012	8.00		73	73	73	100	6	20	30.05	30.24	07	BKN	150	7.00		61	61	61	100	6	36	29.90	30.09				
10	BKN	016	10.00		79	75	76	88	10	22	30.03	30.22	10	BKN	150	10.00		72	62	66	71	5	05	29.91	30.10				
13	SCT	NC	10.00		87	78	81	75	17	21	29.98	30.17	13	BKN	150	10.00		77	63	68	62	0	00	29.87	30.06				
16	SCT	NC	10.00		86	77	80	75	15	21	29.93	30.12	16	BKN	150	10.00		79	62	68	56	5	21	29.84	30.03				
19	SCT	NC	10.00		78	76	77	93	7	20	29.93	30.12	19	BKN	150	10.00		70	65	67	84	5	06	29.84	30.03				
22	BKN	200	9.00		77	74	75	90	6	19	29.95	30.14	22	BKN	150	10.00		65	65	65	100	5	06	29.86	30.05				
SUNRISE: 0540					SEP 02					SUNSET: 1837					SUNRISE: 0545					SEP 08					SUNSET: 1828				
01	SCT	NC	9.00		76	75	75	97	13	20	29.94	30.13	01	SCT	NC	10.00		63	63	63	100	0	00	29.86	30.05				
04	SCT	NC	9.00		75	74	74	96	8	20	29.92	30.10	04	SCT	NC	10.00		62	62	62	100	0	00	29.84	30.03				
07	BKN	250	8.00		76	74	75	94	10	21	29.92	30.11	07	SCT	NC	7.00		63	62	62	97	0	00	29.87	30.06				
10	OVC	250	10.00		84	74	77	72	14	23	29.92	30.11	10	BKN	150	10.00		75	64	68	69	8	05	29.88	30.07				
13	OVC	250	10.00		89	74	78	61	12	23	29.89	30.08	13	OVC	150	10.00		77	65	69	66	8	05	29.87	30.06				
16	BKN	250	10.00		88	73	77	61	12	20	29.86	30.05	16	OVC	150	10.00		74	67	69	79	8	04	29.83	30.02				
19	BKN	250	10.00		78	73	75	85	5	36	29.90	30.09	19	BKN	150	10.00		71	68	69	90	5	35	29.85	30.03				
22	BKN	250	10.00		73	72	72	96	3	07	29.92	30.11	22	BKN	150	10.00		70	67	68	90	7	06	29.90	30.09				
SUNRISE: 0541					SEP 03					SUNSET: 1836					SUNRISE: 0546					SEP 09					SUNSET: 1827				
01	BKN	250	10.00		72	72	72	100	0	00	29.89	30.08	01	BKN	150	10.00		67	66	66	97	6	03	29.92	30.11				
04	SCT	NC	8.00		72	72	72	100	3	20	29.87	30.06	04	CLR	NC	6.00	BR	64	64	64	100	8	02	29.91	30.10				
07	OVC	150	4.00	BR	73	73	73	100	3	22	29.89	30.08	07	SCT	NC	5.00	BR	66	66	66	100	9	03	29.95	30.14				
10	BKN	250	10.00		82	77	78	85	6	16	29.89	30.08	10	BKN	030	10.00		72	67	69	84	14	04	29.99	30.17				
13	OVC	030	8.00	-TSRA	79	76	77	90	3	VR	29.83	30.02	13	OVC	050	10.00		74	65	68	74	14	03	30.00	30.19				
16	OVC	036	8.00	-RA	73	73	73	100	7	12	29.82	30.01	16	OVC	060	10.00		72	65	68	79	10	05	29.98	30.17				
19	OVC	130	7.00		73	73	73	100	7	13	29.80	29.99	19	SCT	NC	10.00		68	63	65	84	8	04	30.01	30.20				
22	BKN	055	9.00		72	72	72	100	7	15	29.80	29.99	22	BKN	120	10.00		63	59	61	87	9	03	30.05	30.24				
SUNRISE: 0542					SEP 04					SUNSET: 1834					SUNRISE: 0547					SEP 10					SUNSET: 1825				
01	OVC	027	6.00	RA BR	73	73	73	100	9	19	29.77	29.96	01	CLR	NC	10.00		61	59	60	93	10	02	30.02	30.21				
04	OVC	120	10.00		72	72	72	100	8	21	29.73	29.91	04	SCT	NC	10.00		60	60	60	100	12	02	30.01	30.20				
07	OVC	005	6.00	-RA BR	72	72	72	100	6	19	29.74	29.93	07	BKN	250	10.00		61	60	60	97	12	02	30.03	30.22				
10	OVC	008	10.00		77	77	77	100	8	21	29.73	29.92	10	SCT	NC	10.00		68	59	63	73	16	03	30.06	30.25				
13	OVC	025	7.00		79	78	78	97	9	23	29.67	29.86	13	SCT	NC	10.00		71	55	62	57	14	05	30.05	30.24				
16	OVC	018	6.00	-RA BR	72	72	72	100	0	00	29.63	29.82	16	SCT	NC	10.00		72	57	63	60	8	02	30.02	30.21				
19	BKN	130	10.00		71	71	71	100	8	29	29.67	29.86	19	SCT	NC	10.00		64	58	60	81	5	02	30.03	30.22				
22	BKN	250	10.00		69	69	69	100	6	24	29.72	29.91	22	FEW	NC	10.00		59	57	58	93	5	36	30.03	30.23				
SUNRISE: 0543					SEP 05					SUNSET: 1833					SUNRISE: 0548					SEP 11					SUNSET: 1824				
01	FEW	NC	10.00		67	67	67	100	3	30	29.72	29.91	01	FEW	NC	10.00		57	56	56	96	7	01	30.02	30.22				
04	FEW	NC	9.00		65	64	64	97	9	36	29.75	29.94	04	SCT	NC	10.00		55	55	55	100	7	36	29.98	30.18				
07	SCT	NC	10.00		65	62	63	90	8	36	29.81	30.00	07	SCT	NC	10.00		58	56	57	93	8	01	29.99	30.19				
10	SCT	NC	10.00		74	60	65	62	13	01	29.86	30.05	10	FEW	NC	10.00		73	60	65	64	12	06	30.02	30.21				
13	SCT	NC	10.00		77	58	65	52	10	01	29.84	30.03	13	SCT	NC	10.00		77	58	65	52	12	04	30.00	30.19				
16	SCT	NC	10.00		77	59	66	54	9	35	29.82	30.01	16	SCT	NC	10.00		75	59	65	58	12	09	29.98	30.17				
19	FEW	NC	10.00		68	59	63	73	9	01	29.86	30.05	19	BKN	250	10.00		67	59	62	76	6	06	29.96	30.15				
22	CLR	NC	10.00		62	58	60	86	6	36	29.91	30.10	22	OVC	200	10.00		62	61	61	96	6	04	29.99	30.18				
SUNRISE: 0543					SEP 06					SUNSET: 1831					SUNRISE: 0548					SEP 12					SUNSET: 1822				
01	FEW	NC	10.00		60	57	58	90	6	36	29.91	30.10	01	OVC	150	10.00		62	61	61	96	10	01	29.97	30.16				
04	SCT	NC	10.00		58	57	57	97	8	36	29.90	30.09	04	OVC	035	10.00		63	63	63	100	13	02	29.93	30.12				
07	BKN	200	10.00		60	58	59	93	8	01	29.93	30.12	07	OVC	017	10.00		65	65	65	100	12	02	29.92	30.11				
10	BKN	250	10.00		70	61	64	73	7	03	29.96	30.14	10	OVC	008	10.00		67	67	67	100	10	03	29.90	30.09				
13	OVC	041	10.00		72	60	65	66	7	04	29.93	30.12	13	OVC	013	8.00	-RA	66	66	66	100	16	02	29.87	30.06				
16	OVC	200	10.00		73	60	65	64	7	04	29.90	30.09	16	OVC	012	2.50	RA BR	65	65	65	100	20	01	29.81	30.01				
19	BKN	150	10.00		68	63	65	84	3	03	29.91	30.10	19	OVC	007	2.50	-RA BR	64	64	64	100	16	01	29.82	30.01				
22	BKN	150	10.00		63	62	62	97	5	05	29.91	30.09	22	OVC	007	2.00	-RA BR	66	66	66	100	12	36	29.80	29.99				

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

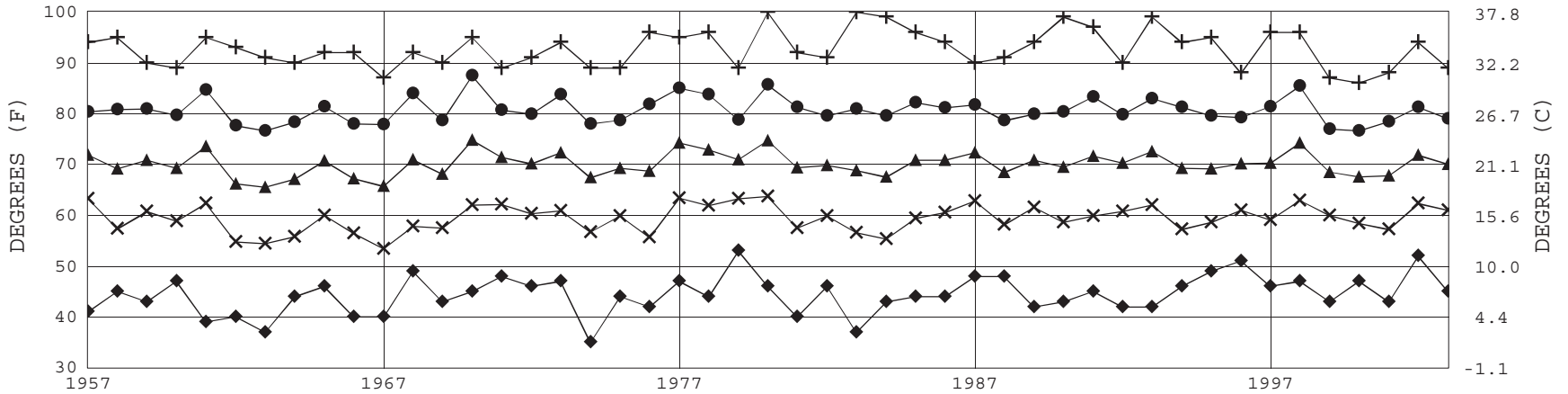
SEPTEMBER 2003

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	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: 0549				SEP 13				SUNSET: 1821				SUNRISE: 0554				SEP 19				SUNSET: 1811									
01	OVC	003		2.00	BR	68	68	68	100	15	01	29.78	29.97	01	OVC	010		3.00	-RA	BR	66	66	66	100	24	18	29.30	29.48	
04	OVC	004		2.00	-RA	BR	68	68	68	100	12	36	29.75	29.94	04	OVC	015		10.00			68	64	66	88	18	18	29.50	29.68
07	OVC	004		2.00	-RA	BR	69	69	69	100	7	03	29.80	29.99	07	OVC	060		10.00			70	61	64	72	20	19	29.63	29.82
10	OVC	005		2.50	-DZ	BR	73	73	73	100	8	08	29.84	30.03	10	CLR	NC		10.00			79	60	67	52	21	23	29.72	29.91
13	BKN	026		10.00		78	74	75	87	13	15	29.86	30.05	13	SCT	NC		10.00			81	67	72	62	16	22	29.78	29.97	
16	OVC	010		10.00		73	72	72	96	10	14	29.87	30.06	16	SCT	NC		10.00			81	68	72	65	10	20	29.81	30.00	
19	OVC	012		10.00		71	71	71	100	7	14	29.92	30.11	19	FEW	NC		10.00			72	69	70	91	0	00	29.87	30.06	
22	OVC	004		2.50	-DZ	BR	70	70	100	5	18	29.96	30.15	22	CLR	NC		8.00			67	67	67	100	0	00	29.91	30.10	
SUNRISE: 0550				SEP 14				SUNSET: 1819				SUNRISE: 0555				SEP 20				SUNSET: 1810									
01	OVC	007		3.00	BR	69	69	69	100	7	18	29.98	30.17	01	CLR	NC		6.00	BR		65	65	65	100	0	00	29.92	30.11	
04	OVC	015		3.00	BR	68	68	68	100	3	16	29.97	30.16	04	CLR	NC		6.00	BR		62	62	62	100	0	00	29.92	30.11	
07	OVC	008		3.00	BR	69	69	69	100	5	14	30.01	30.20	07	CLR	NC		4.00	BR		63	63	63	100	0	00	29.97	30.16	
10	OVC	015		5.00	BR	72	71	71	97	6	17	30.03	30.22	10	CLR	NC		10.00			79	67	71	67	0	00	29.99	30.18	
13	OVC	035		10.00		75	71	72	88	6	15	30.00	30.19	13	SCT	NC		10.00			85	67	73	55	0	00	29.96	30.15	
16	BKN	055		10.00		77	71	73	82	5	18	29.95	30.14	16	SCT	NC		9.00			81	69	73	67	5	08	29.95	30.14	
19	BKN	250		10.00		72	72	72	100	5	13	29.96	30.15	19	FEW	NC		6.00	BR		74	72	73	94	3	02	29.96	30.15	
22	BKN	250		8.00		69	69	69	100	3	07	29.96	30.15	22	CLR	NC		6.00	BR		70	68	69	93	0	00	30.01	30.20	
SUNRISE: 0551				SEP 15				SUNSET: 1818				SUNRISE: 0556				SEP 21				SUNSET: 1808									
01	SCT	NC		7.00		68	68	68	100	0	00	29.93	30.12	01	CLR	NC		5.00	BR		66	66	66	100	3	02	30.01	30.20	
04	SCT	NC		4.00	BR	66	66	66	100	3	34	29.88	30.07	04	CLR	NC		4.00	BR		65	65	65	100	0	00	30.02	30.21	
07	BKN	250		3.00	BR	67	67	67	100	0	00	29.91	30.10	07	FEW	NC		2.00	BR		65	65	65	100	6	05	30.06	30.25	
10	SCT	NC		10.00		78	73	75	85	6	08	29.90	30.09	10	BKN	250		6.00	HZ		77	69	72	77	0	00	30.08	30.27	
13	BKN	070		10.00		83	72	75	70	0	00	29.84	30.03	13	SCT	NC		8.00			82	70	74	67	5	09	30.04	30.23	
16	SCT	NC		10.00		84	72	76	67	7	VR	29.79	29.98	16	SCT	NC		8.00			82	68	73	63	5	13	30.01	30.19	
19	SCT	NC		9.00		76	71	73	85	3	30	29.81	30.00	19	SCT	NC		7.00			73	70	71	90	5	13	30.02	30.21	
22	OVC	039		10.00		73	69	70	87	12	35	29.86	30.04	22	CLR	NC		8.00			68	67	67	96	5	14	30.05	30.24	
SUNRISE: 0552				SEP 16				SUNSET: 1816				SUNRISE: 0557				SEP 22				SUNSET: 1807									
01	BKN	150		10.00		69	61	64	76	10	01	29.90	30.09	01	OVC	005		3.00	BR		68	68	68	100	9	15	30.03	30.22	
04	FEW	NC		10.00		64	59	61	84	7	01	29.91	30.10	04	BKN	007		2.50	BR		67	67	67	100	5	12	30.01	30.20	
07	SCT	NC		10.00		63	60	61	90	5	34	29.97	30.16	07	VV	001		0.13	FG		65	65	65	100	6	13	30.01	30.20	
10	CLR	NC		10.00		73	56	63	55	16	01	30.01	30.19	10	OVC	200		8.00			73	69	70	87	9	16	29.98	30.17	
13	CLR	NC		10.00		78	55	64	45	12	34	29.98	30.16	13	OVC	250		10.00			78	69	72	74	10	16	29.90	30.09	
16	CLR	NC		10.00		77	56	64	48	10	03	29.95	30.14	16	OVC	200		10.00			78	70	73	76	6	15	29.81	30.00	
19	CLR	NC		10.00		67	59	62	76	3	02	29.96	30.15	19	OVC	060		7.00	-RA		72	72	72	100	8	17	29.80	29.99	
22	CLR	NC		10.00		60	59	59	96	6	36	29.98	30.17	22	OVC	140		10.00			72	72	72	100	13	16	29.77	29.96	
SUNRISE: 0553				SEP 17				SUNSET: 1814				SUNRISE: 0558				SEP 23				SUNSET: 1805									
01	CLR	NC		10.00		58	57	57	97	5	04	30.00	30.19	01	OVC	015		5.00	-RA	BR	73	73	73	100	12	17	29.70	29.89	
04	CLR	NC		10.00		56	56	56	100	7	36	29.99	30.18	04	OVC	010		4.00	RA	BR	73	73	73	100	10	17	29.62	29.81	
07	FEW	NC		10.00		60	58	59	93	10	02	30.03	30.22	07	OVC	100		10.00			65	65	65	100	9	36	29.68	29.86	
10	FEW	NC		10.00		74	62	67	67	12	06	30.04	30.23	10	BKN	250		10.00			69	65	66	87	0	00	29.73	29.92	
13	SCT	NC		10.00		78	58	66	50	16	04	30.01	30.20	13	SCT	NC		10.00			78	61	67	56	9	27	29.72	29.91	
16	BKN	250		10.00		77	56	64	48	14	05	29.98	30.17	16	SCT	NC		10.00			78	57	65	48	13	26	29.72	29.91	
19	OVC	055		10.00		70	60	64	71	9	02	29.97	30.16	19	CLR	NC		10.00			67	61	63	81	0	00	29.78	29.97	
22	OVC	034		10.00		68	59	63	73	12	02	29.96	30.15	22	CLR	NC		10.00			63	58	60	84	0	00	29.84	30.03	
SUNRISE: 0553				SEP 18				SUNSET: 1813				SUNRISE: 0558				SEP 24				SUNSET: 1804									
01	OVC	021		10.00		68	60	63	76	17	02	29.92	30.11	01	CLR	NC		10.00			59	59	59	100	5	33	29.88	30.07	
04	OVC	019		10.00		66	62	64	87	13	02	29.87	30.06	04	CLR	NC		10.00			57	56	56	96	8	01	29.91	30.10	
07	OVC	011		9.00	-RA	65	65	65	100	18	01	29.81	30.00	07	CLR	NC		10.00			59	55	57	87	7	02	29.96	30.15	
10	OVC	010		2.00	+RA	BR	67	67	67	100	25	01	29.68	29.87	10	CLR	NC		10.00			71	56	62	59	9	05	30.00	30.19
13	OVC	010		1.25	+RA	BR	67	67	67	100	26	02	29.44	29.62	13	SCT	NC		10.00			75	56	64	52	3	VR	29.96	30.15
16	OVC	012		1.00	+RA	BR	73	73	73	100	33	06	29.22	29.40	16	FEW	NC		10.00			76	58	65	54	8	16	29.92	30.11
19	OVC	020		1.50	+RA	BR	71	71	71	100	37	09	29.03	29.21	19	CLR	NC		10.00			66	64	65	93	6	13	29.90	30.09
22	OVC	010		3.00	-RA	BR	68	68	68	100	31	13	29.12	29.30	22	CLR	NC		10.00			62	60	61	93	0	00	29.91	30.10

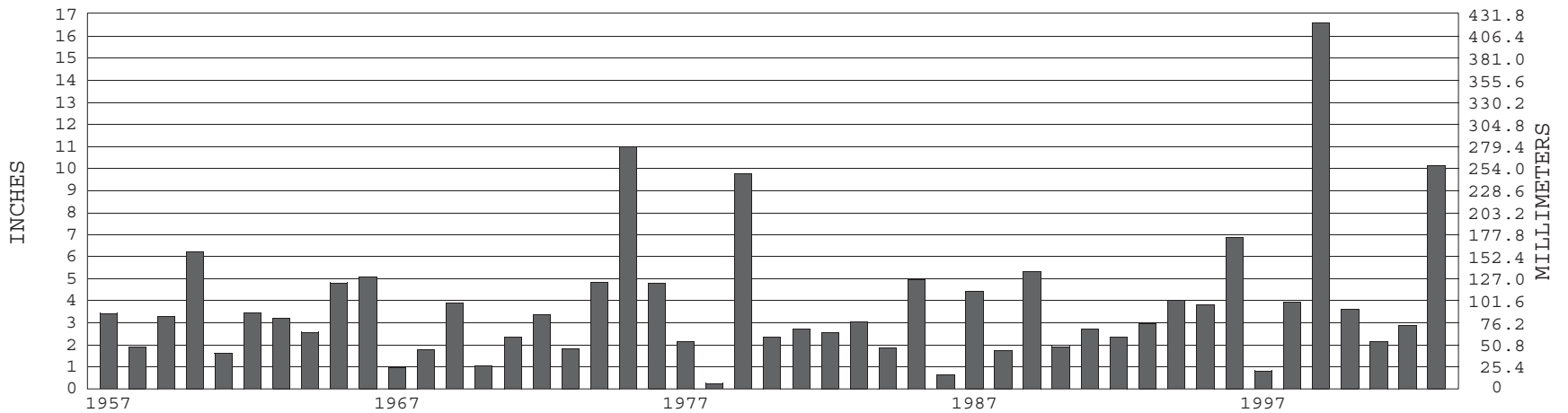
RICHMOND, VA SEPTEMBER TEMPERATURES



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

Long-Term (1957-2003) Mean: 70.1 1961-1990 Normal: 69.8

RICHMOND, VA SEPTEMBER PRECIPITATION



Long-Term (1957-2003) Mean Monthly Total: 3.78

1961-1990 Normal: 3.98



SEPTEMBER 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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