



# OCTOBER 1998

## 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): 164 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	SPEED	DIR	SPEED	
1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
01	86*	55	71*	7	56	63	0	6				0.00	29.66	29.86	4.7	32	11.6	30	01	23	01	01		
02	70	45	58	-6	36	47	7	0				0.00	29.93	30.14	2.1	32	4.2	16	30	14	25	02		
03	74	46	60	-4	46	53	5	0				0.00	29.98	30.18	4.1	17	5.3	18	16	14	17	03		
04	66	55	61	-2	56	58	4	0	RA DZ BR			0.07	30.01	30.22	5.5	36	7.7	16	36	14	36	04		
05	66	54	60	-3	57	58	5	0	DZ BR			T	30.10	30.31	5.0	01	5.3	13	01	11	36	05		
06	72	57	65	3	58	61	0	0	BR			0.00	30.16	30.36	5.5	09	6.6	15	11	13	11	06		
07	76	55	66	4	60	62	0	1				0.00	30.06	30.27	6.9	13	7.6	18	16	13	16	07		
08	71	61	66	5	64	66	0	1	RA BR			0.28	29.80	30.00	4.4	18	9.5	25	36	21	36	08		
09	72	58	65	4	54	58	0	0	RA			T	29.78	29.99	9.6	34	9.9	21	32	16	33	09		
10	71	52	62	1	52	56	3	0				0.00	29.81	30.01	6.4	33	7.3	23	36	18	36	10		
11	73	49	61	1	50	54	4	0				0.00	29.92	30.13	5.6	34	6.0	20	34	15	34	11		
12	73	51	62	3	54	57	3	0				0.00	29.98	30.18	3.9	02	5.4	15	06	11	34	12		
13	72	50	61	2	55	58	4	0	FG+ BR			0.00	29.85	30.05	3.9	16	4.7	15	15	13	16	13		
14	72	50	61	2	46	53	4	0	BR			0.00	29.77	29.98	3.1	31	5.7	18	29	15	27	14		
15	68	43	56	-3	40	48	9	0				0.00	30.03	30.23	3.2	35	4.0	17	36	13	34	15		
16	70	44	57	-1	45	50	8	0	BR			0.00	30.18	30.38	2.5	01	4.0	11	36	9	09	16		
17	72	43	58	0	47	52	7	0	BR			0.00	30.15	30.36	2.6	16	3.5	13	16	9	18	17		
18	79	50	65	7	52	57	0	0	BR			0.00	30.00	30.21	8.9	21	9.2	22	21	20	22	18		
19	78	62	70	13	58	62	0	5				0.00	29.90	30.10	4.5	25	6.6	17	21	15	22	19		
20	75	58	67	10	46	54	0	2	BR			0.00	29.92		3.2	30	6.3	21	01	16	01	20		
21	64	43	54	-3	37	46	11	0	RA			T	29.92	30.13	1.9	26	3.2	20	27	15	27	21		
22	54	40	47*	-9	36	43	18	0	RA			0.12	30.05	30.25	10.8	35	11.2	30	35	25*	36	22		
23	62	36	49	-7	34	42	16	0				0.00	30.19	30.40	4.8	33	6.1	20	33	17	36	23		
24	71	35*	53	-3	37	45	12	0	BR HZ			0.00	30.14	30.35	0.5	18	1.8	14	24	10	23	24		
25	75	39	57	2	39	47	8	0				0.00	30.05	30.25	0.9	06	1.9	15	06	11	04	25		
26	74	42	58	3	41	49	7	0				0.00	30.06	30.26	2.7	03	3.5	14	01	11	05	26		
27	68	45	57	2	53	55	8	0	FG+ BR HZ			0.00	30.09	30.29	1.9	02	3.2	10	33	8	33	27		
28	73	54	64	9	54	57	1	0	FG+ BR HZ			0.00	29.79	29.99	6.4	19	7.5	21	18	17	19	28		
29	70	42	56	2	40	50	9	0				0.00	29.76	29.96	7.6	35	8.3	31*	36	24	36	29		
30	68	36	52	-2	40	47	13	0	RA			T	29.76	29.96	3.7	27	4.3	18	26	14	26	30		
31	70	45	58	4	34	45	7	0				0.00	29.78	29.99	7.3	36	7.7	23	01	20	36	31		

71.1	48.2	59.7	■ ■	47.7	53.3	5.6	0.5	< MONTHLY AVERAGES	TOTALS-->	0.47	29.95	1.7	34	6.1	<-- MONTHLY AVERAGES					
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0.4	1.7	1.1	■ ■	<----- DEPARTURE FROM NORMAL ----->						-3.06	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										
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<b>DEGREE DAYS</b>				GREATEST 24-HR PRECIPITATION: 0.28 DATE: 08				SEA LEVEL PRESSURE DATE TIME							
MONTHLY TOTAL DEPARTURE				SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL: DATE: DATE:				MAXIMUM MINIMUM			
HEATING: 173 -60				183 -73				GREATEST SNOW DEPTH: DATE: DATE:				: 30.47 23 0957			
COOLING: 15 -19				1618 270				NUMBER OF DAYS WITH =>				PRECIPITATION ≥ 0.01 INCH : 3			
								MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 0			
								MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0			
								THUNDERSTORMS : 0				HEAVY FOG : 3			
												PRECIPITATION ≥ 0.10 INCH : 2			
												SNOWFALL ≥ 1.0 INCH :			

OCTOBER 1998 RICHMOND, VA

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## RICHMOND, VA

OCTOBER 1998

RIC

WBAN # 13740

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note 2)	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				T	T		T		T	0.03	0.01		04	0.01	0.02						T	T	T	T	04		0.07		
05	T	T	T	T	T	T	T		T				05												05		T		
06													06												06		0.00		
07													07												07		0.00		
08							0.01	T	T	0.03	0.10	0.03	08	0.03	0.01	T	T	0.01			T	0.02	0.04	08		0.28			
09	T					T	T						09												09		T		
10													10												10		0.00		
11													11												11		0.00		
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		0.00		
18													18												18		0.00		
19													19												19		0.00		
20													20												20		0.00		
21													21	T										T	21		T		
22	T	T	T	0.02	T	T	0.06	0.04	T				22											T	22		0.12		
23													23												23		0.00		
24													24												24		0.00		
25													25												25		0.00		
26													26												26		0.00		
27													27												27		0.00		
28													28												28		0.00		
29													29		T	T									29		0.00		
30													30												30		T		
31													31												31		0.00		

### MAXIMUM SHORT DURATION PRECIPITATION (See Note 1)

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 1: NCDC derives these data from one-minute ASOS values. The table is not printed when inconsistent with ASOS hourly totals.

Note 2: 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	PE 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 Unknown Precipitation		

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

# RICHMOND, VA OCTOBER 1998

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 at constant pressure by evaporation of moisture into it, to 100% relative humidity.

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							1.50	10.00	
05							1.50	10.00	
06							4.00	10.00	
07							10.00	10.00	
08							2.00	10.00	
09							7.00	10.00	
10							8.00	10.00	
11							8.00	10.00	
12							8.00	10.00	
13							<.25	10.00	
14							3.00	10.00	
15							8.00	10.00	
16							5.00	10.00	
17							4.00	10.00	
18							1.75	10.00	
19							7.00	10.00	
20							6.00	10.00	
21							10.00	10.00	
22							8.00	10.00	
23							10.00	10.00	
24							4.00	10.00	
25							10.00	10.00	
26							8.00	10.00	
27							<.25	10.00	
28							<.25	10.00	
29							7.00	10.00	
30							7.00	10.00	
31							10.00	10.00	
<b>MONTHLY AVGS</b>							6.10	10.00	
<b>SUNSHINE (MINUTES)</b>									
Total:                      Possible: Percent Possible:									
<b>NUMBER OF DAYS WITH: SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING 31									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25   <=3.0   >=7.0 3                      8                      18									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# RICHMOND, VA

OCTOBER 1998

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		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	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL			
			SUNRISE: 0605	OCT 01		SUNSET: 1753							SUNRISE: 0610	OCT 07		SUNSET: 1744										
01	SCT	NC			73	68	70	84	9	22	29.62	29.82	01	CLR	NC			10.00	57	54	55	90	3	13	30.16	30.36
04	SCT	NC			71	68	69	90	7	22	29.60	29.80	04	FEW	NC			10.00	57	54	55	90	7	09	30.14	30.35
07	SCT	NC			71	66	68	84	10	22	29.61	29.80	07	OVC	043			10.00	60	56	58	86	5	09	30.15	30.35
10	SCT	NC			81	67	72	62	10	28	29.62	29.81	10	OVC	070			10.00	67	59	62	76	7	12	30.14	30.34
13	SCT	NC			86	61	70	43	10	33	29.57	29.76	13	OVC	032			10.00	73	62	66	69	9	15	30.06	30.26
16	FEW	NC			79	58	66	49	20	01	29.61	29.81	16	OVC	055			10.00	73	63	67	71	7	13	30.01	30.21
19	CLR	NC			66	40	53	39	9	02	29.73	29.93	19	OVC	047			10.00	69	64	66	84	7	12	29.99	30.19
22	CLR	NC			61	34	48	36	10	01	29.84	30.04	22	SCT	NC			10.00	69	61	64	76	13	16	29.96	30.16
			SUNRISE: 0606	OCT 02		SUNSET: 1751							SUNRISE: 0611	OCT 08		SUNSET: 1742										
01	CLR	NC			53	33	44	47	6	01	29.88	30.08	01	BKN	110			10.00	67	61	63	81	8	16	29.93	30.13
04	CLR	NC			47	36	42	66	0	00	29.91	30.11	04	BKN	110			10.00	66	62	64	87	8	17	29.87	30.07
07	FEW	NC			48	40	44	74	3	35	29.95	30.15	07	OVC	070	4.00	-RA BR	67	63	64	87	12	18	29.83	30.03	
10	OVC	250			61	33	48	35	5	36	29.98	30.18	10	OVC	028	4.00	RA BR	69	66	67	90	9	19	29.82	30.02	
13	SCT	NC			66	30	49	26	7	24	29.93	30.13	13	OVC	008	6.00	-RA BR	70	69	69	97	13	19	29.76	29.96	
16	CLR	NC			69	32	51	25	8	30	29.88	30.09	16	OVC	013	10.00	-RA	71	69	70	94	6	19	29.73	29.93	
19	SCT	NC			57	42	50	58	6	14	29.92	30.12	19	OVC	015	8.00		70	69	69	97	5	28	29.74	29.94	
22	BKN	180			55	45	50	69	0	00	29.97	30.18	22	OVC	055	10.00	-RA	63	59	61	87	9	36	29.80	30.00	
			SUNRISE: 0606	OCT 03		SUNSET: 1750							SUNRISE: 0612	OCT 09		SUNSET: 1741										
01	FEW	NC			52	44	48	75	6	04	30.00	30.20	01	OVC	050			7.00	60	58	59	93	7	36	29.80	29.99
04	CLR	NC			48	43	46	83	0	00	29.99	30.19	04	BKN	070			10.00	58	55	56	90	8	33	29.79	29.99
07	CLR	NC			49	45	47	86	0	00	30.02	30.22	07	BKN	085			10.00	58	53	55	84	10	34	29.81	30.01
10	BKN	200			66	41	53	40	7	22	30.04	30.25	10	SCT	NC			10.00	64	54	58	70	12	34	29.82	30.02
13	OVC	130			71	43	56	36	10	18	30.00	30.20	13	SCT	NC			10.00	69	55	61	61	14	33	29.76	29.96
16	BKN	200			73	45	58	37	6	21	29.94	30.14	16	BKN	050			10.00	69	53	60	57	14	33	29.75	29.95
19	BKN	150			66	50	57	56	8	13	29.92	30.13	19	OVC	070			10.00	63	55	58	76	8	33	29.78	29.98
22	OVC	150			67	50	58	55	12	17	29.94	30.14	22	OVC	070			10.00	60	52	56	75	8	34	29.79	29.99
			SUNRISE: 0607	OCT 04		SUNSET: 1748							SUNRISE: 0613	OCT 10		SUNSET: 1739										
01	OVC	047			65	55	59	70	7	20	29.95	30.15	01	OVC	070			10.00	58	51	54	78	7	32	29.78	29.98
04	OVC	042			64	57	60	78	5	18	29.95	30.15	04	FEW	NC			10.00	56	51	53	84	7	28	29.78	29.98
07	OVC	060			60	57	58	90	6	35	29.99	30.19	07	CLR	NC			9.00	54	50	52	87	6	30	29.81	30.01
10	OVC	006			59	57	58	93	9	34	30.03	30.24	10	FEW	NC			10.00	66	51	58	59	14	35	29.82	30.02
13	OVC	005			59	57	58	93	9	01	30.03	30.23	13	OVC	039			10.00	68	52	59	57	14	35	29.80	30.00
16	OVC	008			59	56	57	90	9	01	30.01	30.21	16	BKN	048			10.00	71	53	61	53	10	34	29.79	29.99
19	OVC	007			58	55	56	90	7	35	30.04	30.24	19	CLR	NC			10.00	62	55	58	78	0	00	29.82	30.02
22	OVC	003			56	55	55	97	8	34	30.07	30.27	22	CLR	NC			10.00	56	50	53	81	6	35	29.86	30.06
			SUNRISE: 0608	OCT 05		SUNSET: 1747							SUNRISE: 0614	OCT 11		SUNSET: 1738										
01	OVC	001			55	54	54	96	12	01	30.07	30.27	01	CLR	NC			8.00	53	49	51	86	6	35	29.88	30.08
04	OVC	003			54	53	53	97	7	34	30.06	30.27	04	CLR	NC			10.00	52	47	49	83	8	33	29.89	30.09
07	OVC	004			54	53	53	97	7	34	30.11	30.31	07	CLR	NC			8.00	51	46	49	83	5	32	29.94	30.14
10	OVC	014			59	55	57	87	6	03	30.11	30.31	10	CLR	NC			10.00	65	49	56	56	10	36	29.96	30.16
13	OVC	014			64	58	60	81	3	02	30.09	30.29	13	CLR	NC			10.00	71	50	59	47	9	31	29.92	30.12
16	OVC	019			66	59	62	78	0	00	30.09	30.29	16	CLR	NC			10.00	72	50	60	46	9	34	29.89	30.09
19	OVC	018			64	60	62	87	5	02	30.12	30.32	19	CLR	NC			10.00	62	52	57	70	5	01	29.93	30.13
22	OVC	015			63	59	61	87	6	02	30.14	30.34	22	CLR	NC			10.00	55	51	53	87	0	00	29.95	30.16
			SUNRISE: 0609	OCT 06		SUNSET: 1745							SUNRISE: 0615	OCT 12		SUNSET: 1737										
01	OVC	022			62	59	60	90	6	01	30.13	30.34	01	BKN	055			8.00	55	52	53	90	0	00	29.96	30.16
04	OVC	022			62	59	60	90	6	01	30.14	30.34	04	CLR	NC			10.00	53	51	52	93	8	01	29.97	30.17
07	OVC	023			62	60	61	93	7	04	30.17	30.37	07	FEW	NC			8.00	54	52	53	93	5	33	30.01	30.21
10	OVC	035			67	59	62	76	9	09	30.22	30.42	10	OVC	250			10.00	65	54	59	68	8	02	30.03	30.23
13	OVC	035			71	57	63	61	6	12	30.17	30.37	13	OVC	250			10.00	70	54	61	57	5	VR	29.98	30.18
16	BKN	040			71	57	63	61	7	10	30.14	30.34	16	BKN	065			10.00	68	56	61	66	7	08	29.95	30.16
19	BKN	037			66	57	61	73	9	12	30.15	30.36	19	SCT	NC			10.00	61	55	58	81	5	06	29.97	30.18
22	CLR	NC			61	55	58	81	10	10	30.17	30.37	22	CLR	NC			10.00	58	55	56	90	0	00	29.98	30.18



# OBSERVATIONS AT 3-HOURLY INTERVALS

# RICHMOND, VA

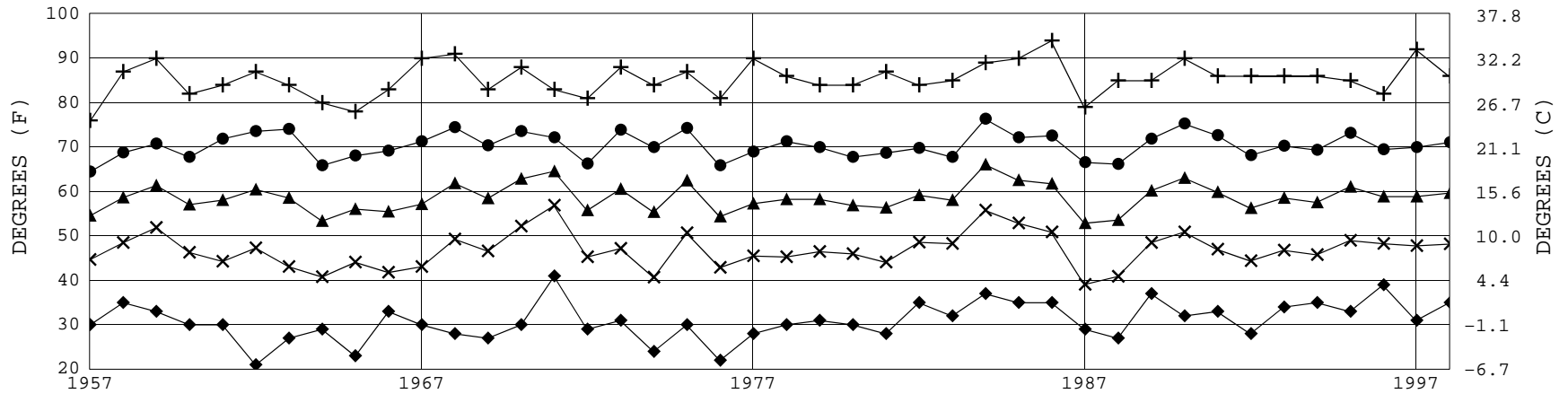
OCTOBER 1998

RIC

WBAN # 13740

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Ok/as	VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Ok/as	VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F				WIND		PRESSURE (INCHES, HG)	
	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)					SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL					DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
	SUNRISE: 0627    OCT 25    SUNSET: 1719																																		
01	CLR	NC						10.00		43	39	41	86	0	00	30.07	30.28	01	CLR	NC								51	42	47	71	9	36	29.71	29.91
04	CLR	NC						10.00		42	37	40	82	0	00	30.06	30.26	04	CLR	NC								50	38	44	63	8	35	29.73	29.93
07	CLR	NC						10.00		41	37	39	86	0	00	30.09	30.29	07	CLR	NC								45	38	42	77	6	01	29.79	29.99
10	CLR	NC						10.00		64	39	52	40	7	05	30.11	30.31	10	CLR	NC								61	36	49	39	13	01	29.82	30.03
13	SCT	NC						10.00		73	35	54	25	0	00	30.04	30.24	13	CLR	NC								68	28	50	22	16	35	29.76	29.96
16	OVC	250						10.00		73	37	55	27	5	VR	30.01	30.21	16	CLR	NC								69	26	50	20	9	32	29.76	29.96
19	BKN	250						10.00		57	43	50	60	0	00	30.02	30.22	19	CLR	NC								51	32	43	48	0	00	29.82	30.02
22	SCT	NC						10.00		51	43	47	74	0	00	30.02	30.23	22	CLR	NC								46	33	40	61	0	00	29.84	30.05
SUNRISE: 0628    OCT 26    SUNSET: 1718																		<b>3-HOURLY OBSERVATION NOTES</b>																	
01	BKN	250						10.00		45	41	43	86	0	00	30.02	30.22	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. 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.																	
04	SCT	NC						10.00		47	40	44	77	3	34	30.02	30.22																		
07	CLR	NC						10.00		43	38	41	82	5	35	30.05	30.26																		
10	FEW	NC						10.00		64	40	52	41	8	04	30.08	30.28																		
13	BKN	250						10.00		72	38	55	29	6	VR	30.05	30.25																		
16	OVC	250						10.00		71	38	54	30	3	06	30.04	30.25																		
19	SCT	NC						10.00		60	43	51	53	8	07	30.07	30.28																		
22	CLR	NC						10.00		52	45	49	77	0	00	30.11	30.31																		
SUNRISE: 0629    OCT 27    SUNSET: 1717																		<b>SUMMARY BY HOUR</b>																	
01	CLR	NC						6.00	BR	49	46	48	90	0	00	30.10	30.30																		
04	VV	001						< .25	FG	50	50	50	100	3	35	30.12	30.32																		
07	VV	001						< .25	FG	51	51	51	100	6	01	30.15	30.35																		
10	OVC	002						0.75	BR	57	55	56	94	6	03	30.15	30.35																		
13	BKN	250						9.00		64	55	59	73	0	00	30.11	30.31																		
16	BKN	250						10.00		67	54	60	62	0	00	30.05	30.25																		
19	BKN	038						8.00		62	53	57	74	0	00	30.05	30.25																		
22	SCT	NC						5.00	BR	52	51	52	97	5	13	30.03	30.24																		
SUNRISE: 0630    OCT 28    SUNSET: 1716																																			
01	OVC	012						5.00	BR	54	53	53	97	0	00	30.00	30.20																		
04	OVC	001						< .25	FG	54	54	54	100	3	12	29.93	30.13																		
07	VV	001						< .25	FG	55	55	55	100	0	00	29.92	30.12																		
10	OVC	005						2.50	BR	58	56	57	93	10	19	29.88	30.09																		
13	SCT	NC						9.00		68	53	59	59	14	18	29.76	29.96																		
16	SCT	NC						10.00		72	51	60	48	13	19	29.67	29.87																		
19	OVC	085						10.00		66	53	59	63	10	20	29.65	29.85																		
22	FEW	NC						9.00		64	52	57	65	7	25	29.63	29.83																		
SUNRISE: 0631    OCT 29    SUNSET: 1715																																			
01	FEW	NC						10.00		60	51	55	72	7	32	29.64	29.84																		
04	CLR	NC						9.00		54	50	52	87	6	32	29.66	29.86																		
07	CLR	NC						9.00		52	48	50	86	5	01	29.73	29.93																		
10	SCT	NC						10.00		64	37	51	37	18	01	29.78	29.98																		
13	SCT	NC						10.00		69	36	53	30	14	31	29.77	29.97																		
16	SCT	NC						10.00		68	32	51	26	15	36	29.76	29.97																		
19	SCT	NC						10.00		53	36	45	52	7	06	29.80	30.01																		
22	CLR	NC						10.00		47	36	42	66	0	00	29.84	30.05																		
SUNRISE: 0632    OCT 30    SUNSET: 1714																																			
01	FEW	NC						10.00		43	36	40	76	0	00	29.85	30.05																		
04	FEW	NC						10.00		40	36	38	86	0	00	29.84	30.04																		
07	CLR	NC						10.00		38	34	36	86	0	00	29.84	30.04																		
10	CLR	NC						10.00		58	37	48	46	7	26	29.81	30.01																		
13	OVC	150						10.00		65	38	52	37	10	24	29.72	29.92																		
16	BKN	100						10.00		65	39	52	39	12	26	29.68	29.88																		
19	BKN	180						10.00		62	44	53	52	5	25	29.67	29.88																		
22	BKN	100						10.00		60	47	53	62	6	28	29.69	29.89																		

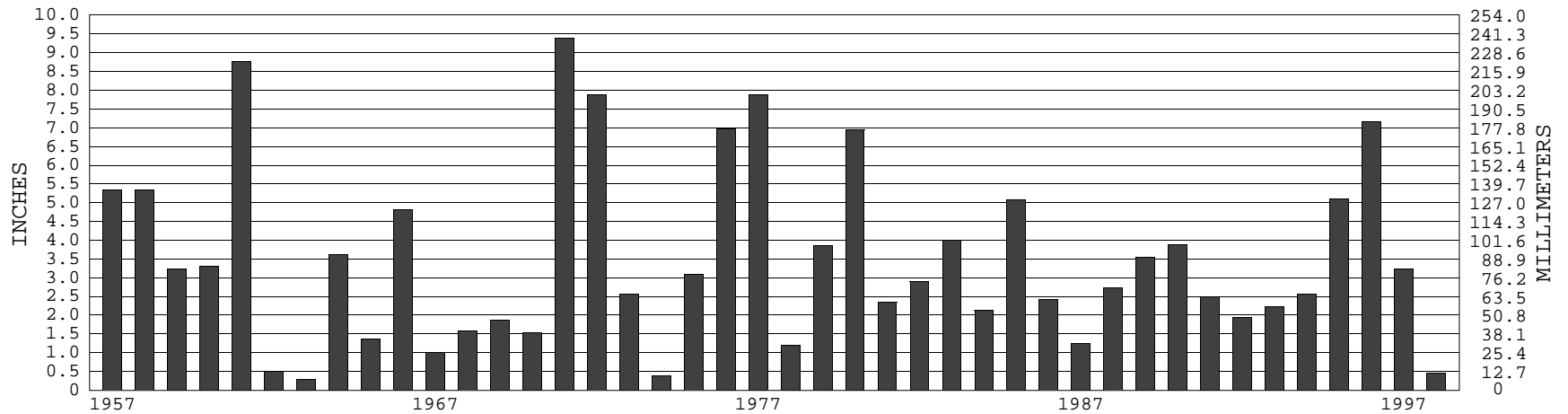
### RICHMOND, VA OCTOBER TEMPERATURES



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

Long-Term (1957-1998) Mean: 58.7      1961-1990 Normal: 58.6

### RICHMOND, VA OCTOBER PRECIPITATION



Long-Term (1957-1998) Mean Monthly Total: 3.54

1961-1990 Normal: 3.53



**OCTOBER 1998  
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.*

DIRECTOR

## NOTICE

Effective July 1, 1996, the National Weather Service & Federal Aviation Administration began using the METAR format for Hourly Observations.

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