



# FEBRUARY 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

FEBRUARY 1998  
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	49	26	38	2	23	31	27	0				0.00	30.05	30.26	1.1	05	2.6	10	29	9	01	01									
02	50	25	38	2	30	35	27	0	BR			0.00	30.05	30.26	1.3	17	2.0	11	21	9	21	02									
03	46	37	42	6	37	40	23	0	RA BR			0.17	29.88	30.09	7.1	04	7.5	24	02	20	03	03									
04	42	39	41	5	39	40	24	0	RA BR			2.26	29.31	29.52	23.6	04	23.9	48*	04	33	06	04									
05	41	37	39	2	38	39	26	0	RA DZ SN BR			0.40	29.32	29.52	15.8	01	16.0	33	03	28	01	05									
06	37	34	36	-1	35	35	29	0	RA DZ BR			0.16	29.69	29.89	6.8	03	7.1	21	01	16	02	06									
07	45	35	40	3	34	37	25	0	RA DZ BR			0.01	29.72	29.92	11.3	02	11.6	25	05	21	03	07									
08	49	31	40	3	28	35	25	0	RA			T	29.75	29.96	10.5	03	11.0	23	02	18	02	08									
09	47	28	38	1	30	33	27	0				0.00	29.96	30.17	3.6	02	4.6	14	05	11	02	09									
10	53	25	39	2	33	36	26	0	FG+ FZFG BR			0.00	30.04	30.25	2.1	15	3.3	14	18	10	18	10									
11	57	32	45	7	44	46	20	0	RA BR			0.16	29.79	30.00	6.3	15	7.1	21	16	17	15	11									
12	61	44	53	15	42	48	12	0	RA			0.09	29.52	29.72	12.2	26	13.4	45	24	37*	24	12									
13	50	30	40	2	30	37	25	0				0.00	29.82	30.02	1.8	02	3.5	18	01	15	02	13									
14	44	31	38	0	26	33	27	0				0.00	29.98	30.19	8.2	36	8.6	22	33	17	33	14									
15	46	24*	35*	-4	22	31	30	0				0.00	30.26	30.47	2.0	09	4.2	14	12	11	12	15									
16	50	27	39	0	35	37	26	0	RA			0.15	30.16	30.37	8.5	08	9.2	22	07	17	11	16									
17	63	50	57	18	54	55	8	0	RA DZ BR			1.21	29.56	29.77	12.3	11	14.9	37	11	28	11	17									
18	63	47	55	16	44	50	10	0	RA FG BR			0.01	29.40	29.60	8.8	23	9.7	23	23	20	23	18									
19	62	43	53	13	38	46	12	0				0.00	29.62	29.82	8.6	26	8.9	22	26	17	26	19									
20	54	38	46	6	40	44	19	0	RA BR			0.09	29.59	29.79	2.5	29	4.6	17	29	14	28	20									
21	60	38	49	9	34	42	16	0				0.00	29.74	29.95	8.7	30	9.6	25	28	20	28	21									
22	57	32	45	5	33	40	20	0	RA			T	29.92	30.13	2.7	14	4.6	20	10	16	11	22									
23	46	38	42	1	40	41	23	0	RA BR			0.94	29.43	29.64	10.2	02	13.4	26	31	21	32	23									
24	53	38	46	5	33	40	19	0	RA DZ BR			0.11	29.35	29.55	16.7	32	17.1	38	28	29	32	24									
25	62	41	52	11	32	42	13	0				0.00	29.66	29.87	12.9	33	13.6	37	33	28	34	25									
26	64	36	50	8	31	41	15	0				0.00	29.82	30.02	2.8	33	3.8	17	01	14	01	26									
27	63	36	50	8	42	47	15	0	RA			T	29.67	29.87	2.8	18	4.3	18	22	16	22	27									
28	72*	46	59*	16	51	54	6	0	BR			0.00	29.57	29.77	1.4	27	4.6	24	33	21	32	28									
< MONTHLY AVERAGES										TOTALS-->			5.76	29.74	29.94	3.4	01	8.7	<- MONTHLY AVERAGES												
3.9				7.2		5.5		■■■		<----- DEPARTURE FROM NORMAL ----->										2.60		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 2.26 DATE: 04				SEA LEVEL PRESSURE				DATE TIME													
MONTHLY TOTAL DEPARTURE					SEASON TO DATE TOTAL DEPARTURE					GREATEST 24-HR SNOWFALL:				MAXIMUM				: 30.55 15 1052													
HEATING: 575					-161 2826 -308					GREATEST SNOW DEPTH:				MINIMUM				: 29.32 05 0100													
COOLING: 0					0 2 2					NUMBER OF DAYS WITH →				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 11				PRECIPITATION ≥ 0.01 INCH : 13									
														MAXIMUM TEMP ≤ 32 : 0				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 9									
														THUNDERSTORMS : 0				HEAVY FOG : 1				SNOWFALL ≥ 1.0 INCH :									

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## RICHMOND, VA

FEBRUARY 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					0.02	0.02	T	0.01	T	0.06	0.06	03		0.17		
04	0.08	0.14	0.13	0.09	0.12	0.13	0.12	0.08	0.09	0.10	0.12	0.09	04	0.14	0.06	0.07	0.04	0.03	0.01	0.02	0.03	0.06	0.17	0.24	0.10	04	2.26		
05	0.03	0.02	0.02	0.01	0.09	0.09	0.01	0.01	0.02	0.02	T	0.02	05	0.03	0.02	T	T	T	T	T	T	T	T	0.01	05	0.40			
06	T	T	T	T	0.01	0.02	0.01	0.03	0.05	0.02	T	T	06	0.01	T	T	T	T	T	T	0.01	T	T		06	0.16			
07													07			T	T	T	T	T	T	T			07	0.01			
08													08													08	T		
09													09													09	0.00		
10													10													10	0.00		
11													11				T	0.07	0.05	0.04	T	T			11	0.16			
12													12													12	0.09		
13			0.05	0.04									13													13	0.00		
14													14													14	0.00		
15													15													15	0.00		
16													16		0.01	T		0.01	0.03	0.02	0.01	0.01	0.02	0.01	0.02	16	0.14		
17	0.02	0.01	T		0.04	0.06	0.14	0.26	0.27	0.05	0.21	0.13	17	0.02	0.01	T	T		T						17	1.22			
18							0.01						18													18	0.01		
19													19													19	0.00		
20								0.01	0.02	0.05	T	0.01	20	T											20	0.09			
21													21													21	0.00		
22													22											T		22	T		
23	T		0.01	0.01	0.01	0.04	0.07	0.08	0.17	0.12	0.23	0.02	23	T	0.02	0.03	0.09	0.03	0.01		T	T	T	T	23	0.94			
24	T	0.01	T	T	0.01	0.08	T	T	T				24		0.01											24	0.11		
25													25													25	0.00		
26													26													26	0.00		
27													27			T	T									27	T		
28													28													28	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	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 FEBRUARY 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							7.00	10.00	
03							3.00	10.00	
04							2.00	10.00	
05							3.00	10.00	
06							1.00	10.00	
07							1.00	10.00	
08							10.00	10.00	
09							8.00	10.00	
10							.25	10.00	
11							2.00	10.00	
12							10.00	10.00	
13							8.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							9.00	10.00	
17							1.25	10.00	
18							.50	10.00	
19							10.00	10.00	
20							6.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							1.50	10.00	
24							7.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							6.00	10.00	
MONTHLY AVGS							6.30	10.00	
<b>SUNSHINE (MINUTES)</b>									
Total:                      Possible:									
Percent Possible:									
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING									
28									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25    <=3.0    >=7.0									
1            10           16									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# RICHMOND, VA

FEBRUARY 1998

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		OBSERVATION TIME (LST)	EFF CLD AMT Okltas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING		OBSERVATION TIME (LST)	EFF CLD AMT Okltas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL									
SUNRISE: 0654								FEB 01								SUNSET: 1714								SUNRISE: 0649								FEB 07								SUNSET: 1721							
01	CLR	NC				10.00		30	24	28	79	6	35	29.99	30.19	01	OVC	003					10.00		35	34	35	96	6	05	29.75	29.96															
04	CLR	NC				10.00		29	23	27	78	7	01	30.00	30.21	04	OVC	001				1.00	BR	35	35	35	100	5	04	29.74	29.95																
07	CLR	NC				10.00		26	22	25	84	0	00	30.05	30.26	07	OVC	003				2.00	BR	36	35	36	97	10	02	29.73	29.94																
10	CLR	NC				10.00		37	24	32	60	3	VR	30.08	30.29	10	OVC	007				6.00	BR	38	36	37	93	8	03	29.76	29.97																
13	FEW	NC				10.00		45	22	36	40	0	00	30.06	30.27	13	OVC	032				10.00		45	34	40	66	16	04	29.69	29.89																
16	SCT	NC				10.00		48	18	37	30	0	00	30.04	30.24	16	OVC	047				10.00	DZ	43	31	38	63	15	03	29.68	29.88																
19	SCT	NC				10.00		39	24	33	55	5	11	30.05	30.26	19	OVC	060				10.00	-RA	38	35	37	89	13	01	29.70	29.91																
22	CLR	NC				10.00		33	25	30	72	5	13	30.08	30.29	22	OVC	024				10.00		38	31	35	76	13	01	29.70	29.90																
SUNRISE: 0654								FEB 02								SUNRISE: 0648								FEB 08								SUNSET: 1722															
01	CLR	NC				10.00		28	25	27	88	0	00	30.06	30.27	01	OVC	019				10.00		37	33	35	86	13	01	29.69	29.89																
04	CLR	NC				10.00		27	24	26	89	0	00	30.06	30.27	04	OVC	021				10.00		37	31	35	79	15	02	29.67	29.88																
07	CLR	NC				8.00		25	24	25	96	0	00	30.09	30.29	07	OVC	021				10.00		36	30	34	79	13	03	29.72	29.92																
10	FEW	NC				9.00		39	36	38	89	6	21	30.11	30.32	10	SCT	NC				10.00		38	29	34	70	15	03	29.76	29.97																
13	OVC	250				10.00		48	31	41	52	3	31	30.05	30.25	13	SCT	NC				10.00		45	29	38	54	12	02	29.74	29.94																
16	OVC	180				10.00		50	31	42	48	0	00	30.03	30.23	16	FEW	NC				10.00		48	22	38	36	15	02	29.74	29.94																
19	OVC	180				10.00		43	33	39	68	3	10	30.02	30.23	19	FEW	NC				10.00		40	22	33	49	6	06	29.81	30.02																
22	OVC	150				10.00		41	34	38	76	0	00	30.01	30.22	22	CLR	NC				10.00		33	25	30	72	0	00	29.85	30.06																
SUNRISE: 0653								FEB 03								SUNRISE: 0647								FEB 09								SUNSET: 1723															
01	OVC	250				9.00		38	35	37	89	3	03	30.01	30.22	01	CLR	NC				10.00		30	27	29	88	6	36	29.87	30.08																
04	OVC	250				10.00		39	36	38	89	5	03	29.95	30.16	04	CLR	NC				10.00		29	27	28	92	6	36	29.89	30.09																
07	OVC	250				10.00		39	36	38	89	0	00	29.95	30.16	07	OVC	023				9.00		30	28	29	92	6	36	29.94	30.15																
10	OVC	250				10.00		42	37	40	82	3	03	29.99	30.20	10	OVC	023				10.00		35	31	33	85	5	03	29.99	30.20																
13	OVC	130				10.00		45	39	42	80	9	04	29.90	30.10	13	SCT	NC				10.00		42	31	37	65	6	04	29.96	30.17																
16	OVC	130				10.00		46	38	42	73	10	04	29.83	30.03	16	CLR	NC				10.00		47	32	41	56	6	VR	29.96	30.16																
19	OVC	055				10.00	-RA	42	39	41	89	12	03	29.82	30.02	19	CLR	NC				10.00		38	32	36	79	0	00	30.00	30.20																
22	OVC	022				9.00	-RA	42	38	40	85	13	04	29.74	29.95	22	CLR	NC				10.00		33	30	32	89	3	09	30.02	30.23																
SUNRISE: 0652								FEB 04								SUNRISE: 0646								FEB 10								SUNSET: 1724															
01	OVC	022				3.00	RA BR	40	38	39	93	16	03	29.63	29.84	01	CLR	NC				7.00		31	30	31	96	3	12	30.01	30.21																
04	OVC	013				3.00	RA BR	40	38	39	93	25	03	29.52	29.73	04	CLR	NC				7.00		28	27	28	96	0	00	30.03	30.23																
07	OVC	010				3.00	RA BR	40	38	39	93	23	04	29.43	29.63	07	CLR	NC				8.00		27	25	26	92	0	00	30.06	30.27																
10	OVC	008				3.00	RA BR	40	38	39	93	23	05	29.37	29.57	10	SCT	NC				6.00	BR	39	36	38	89	0	00	30.09	30.30																
13	OVC	010				3.00	-RA BR	41	40	41	96	22	04	29.21	29.42	13	SCT	NC				10.00		49	33	42	55	7	21	30.05	30.25																
16	OVC	014				2.00	-RA BR	42	40	41	92	23	04	29.18	29.39	16	SCT	NC				10.00		52	35	44	53	5	VR	30.02	30.22																
19	OVC	014				10.00	-RA	42	39	41	89	25	03	29.16	29.36	19	BKN	250				10.00		44	35	40	71	5	13	30.03	30.24																
22	OVC	015				5.00	RA BR	41	40	41	96	28	03	29.14	29.34	22	SCT	NC				10.00		39	35	37	86	7	13	30.03	30.24																
SUNRISE: 0651								FEB 05								SUNRISE: 0645								FEB 11								SUNSET: 1725															
01	OVC	012				10.00	-RA	41	39	40	93	23	02	29.12	29.33	01	CLR	NC				10.00		37	36	37	96	5	15	30.01	30.22																
04	OVC	012				4.00	BR	40	38	39	93	20	02	29.13	29.34	04	CLR	NC				7.00		36	36	36	100	5	12	29.98	30.18																
07	OVC	010				4.00	BR	39	38	39	96	17	01	29.22	29.42	07	SCT	NC				2.00	BR	33	32	33	96	0	00	29.96	30.17																
10	OVC	007				3.00	-RA BR	38	37	38	97	16	01	29.30	29.50	10	BKN	038				10.00		46	43	45	89	3	14	29.93	30.14																
13	OVC	012				3.00	-RA BR	40	39	40	97	16	36	29.32	29.52	13	OVC	180				10.00		56	47	51	72	7	15	29.82	30.03																
16	OVC	015				3.00		41	38	40	89	14	03	29.35	29.56	16	OVC	050				8.00	-RA	54	47	50	77	13	14	29.72	29.93																
19	OVC	036				10.00		40	36	38	86	12	01	29.44	29.64	19	OVC	013				3.00	-RA	53	52	52	96	15	15	29.60	29.81																
22	OVC	014				10.00		38	36	37	93	14	02	29.51	29.72	22	OVC	035				9.00		56	54	55	93	10	18	29.50	29.70																
SUNRISE: 0650								FEB 06								SUNRISE: 0644								FEB 12								SUNSET: 1726															
01	OVC	010				5.00	DZ BR	37	35	36	93	15	01	29.55	29.75	01	BKN	047				10.00		56	53	54	90	12	19	29.42	29.62																
04	OVC	025				5.00	DZ BR	36	35	36	97	5	36	29.58	29.79	04	CLR	NC				10.00		49	47	48	93	9	21	29.40	29.60																
07	OVC	041				5.00	-RA BR	36	34	35	93	7	01	29.64	29.85	07	OVC	100				10.00		51	47	49	86	12	25	29.42	29.62																
10	OVC	043				6.00	-RA BR	37	34	36	89	13	01	29.70	29.91	10	CLR	NC				10.00		54	42	48	64	15	25	29.48	29.68																
13	OVC	011				3.00	DZ BR	36	35	36	97	7	04	29.71	29.91	13	FEW	NC				10.00		59	40	50	49	20	26	29.49	29.69																
16	OVC	005				2.50	DZ BR	37	36	37	96	6	04	29.70	29.91	16	SCT	NC				10.00		60	38	49	44	15	26	29.52	29.72																
19	OVC	011				1.00	DZ BR	35	35	35	100	7	05	29.74	29.95	19	OVC	060				10.00		54	37	46	53	16	30	29.63	29.83																
22	OVC	025				8.00	DZ	35	34	35	96	6	05	29.79	29.99	22	CLR	NC				10.00		47	36	42	66	8	27	29.69	29.89																

# OBSERVATIONS AT 3-HOURLY INTERVALS

# RICHMOND, VA

FEBRUARY 1998

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		OBSERVATION TIME (LST)	EFF CLD AMT Okltas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING		OBSERVATION TIME (LST)	EFF CLD AMT Okltas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL									
SUNRISE: 0643								FEB 13								SUNSET: 1727								SUNRISE: 0636								FEB 19								SUNSET: 1734							
01	FEW	NC				10.00		43	36	40	76	6	27	29.74	29.94	01	CLR	NC					10.00		50	39	45	66	7	25	29.51	29.72															
04	CLR	NC				10.00		35	32	34	89	0	00	29.78	29.98	04	OVC	080					10.00		49	38	44	66	10	25	29.55	29.75															
07	SCT	NC				10.00		31	28	30	89	0	00	29.84	30.05	07	CLR	NC					10.00		46	38	42	73	8	26	29.59	29.79															
10	OVC	200				10.00		42	29	37	60	6	03	29.88	30.08	10	CLR	NC					10.00		54	39	47	57	10	25	29.63	29.83															
13	BKN	200				10.00		46	27	38	47	0	00	29.83	30.03	13	SCT	NC					10.00		59	39	49	48	10	27	29.62	29.82															
16	BKN	200				10.00		50	29	41	44	7	26	29.78	29.98	16	SCT	NC					10.00		62	38	50	41	9	27	29.62	29.82															
19	BKN	055				10.00		45	31	39	58	0	00	29.81	30.01	19	SCT	NC					10.00		56	37	47	49	7	29	29.66	29.86															
22	SCT	NC				10.00		41	27	35	57	10	03	29.86	30.07	22	SCT	NC					10.00		48	36	43	63	0	00	29.71	29.91															
SUNRISE: 0642								FEB 14								SUNRISE: 0634								FEB 20								SUNSET: 1735															
01	CLR	NC				10.00		35	26	32	70	8	36	29.85	30.06	01	FEW	NC					10.00		41	36	39	82	3	11	29.69	29.89															
04	OVC	045				10.00		37	25	33	62	10	02	29.85	30.05	04	BKN	070					10.00		40	37	39	89	3	01	29.63	29.83															
07	OVC	049				10.00		36	25	32	64	7	01	29.90	30.10	07	OVC	070					10.00		42	39	41	89	3	01	29.61	29.81															
10	OVC	047				10.00		40	26	35	58	10	35	29.97	30.18	10	OVC	033				7.00	-RA	44	42	43	93	6	34	29.64	29.85																
13	OVC	039				10.00		42	28	36	58	15	36	29.98	30.19	13	BKN	020					10.00		49	44	47	83	6	02	29.53	29.74															
16	BKN	050				10.00		42	27	36	55	13	33	30.00	30.21	16	SCT	NC					10.00		54	41	48	62	9	27	29.52	29.72															
19	SCT	NC				10.00		37	27	33	67	6	03	30.06	30.27	19	OVC	085					10.00		51	42	47	71	0	00	29.55	29.75															
22	SCT	NC				10.00		35	25	31	67	0	00	30.15	30.36	22	SCT	NC					10.00		50	41	46	71	9	27	29.59	29.79															
SUNRISE: 0640								FEB 15								SUNRISE: 0633								FEB 21								SUNSET: 1736															
01	CLR	NC				10.00		31	23	28	72	8	36	30.14	30.35	01	CLR	NC					10.00		47	36	42	66	9	29	29.61	29.82															
04	CLR	NC				10.00		28	22	26	78	0	00	30.19	30.40	04	SCT	NC					10.00		44	36	41	73	7	26	29.65	29.85															
07	BKN	250				10.00		27	23	26	85	3	34	30.25	30.46	07	FEW	NC					10.00		41	34	38	76	6	25	29.69	29.89															
10	BKN	250				10.00		37	22	32	54	7	08	30.33	30.54	10	FEW	NC					10.00		52	34	44	50	15	30	29.73	29.93															
13	SCT	NC				10.00		43	21	35	42	3	VR	30.30	30.51	13	SCT	NC					10.00		56	34	46	44	14	29	29.71	29.91															
16	SCT	NC				10.00		45	23	37	42	6	17	30.24	30.45	16	SCT	NC					10.00		58	32	46	38	14	29	29.72	29.92															
19	SCT	NC				10.00		38	23	32	55	9	11	30.29	30.50	19	SCT	NC					10.00		52	32	43	47	8	31	29.81	30.02															
22	SCT	NC				10.00		32	21	28	64	5	09	30.30	30.51	22	CLR	NC					10.00		47	31	40	54	9	32	29.90	30.11															
SUNRISE: 0639								FEB 16								SUNRISE: 0632								FEB 22								SUNSET: 1737															
01	CLR	NC				10.00		27	22	25	81	3	19	30.30	30.51	01	CLR	NC					10.00		41	31	37	67	3	26	29.92	30.12															
04	SCT	NC				10.00		29	25	28	85	3	04	30.24	30.44	04	FEW	NC					10.00		34	30	32	85	5	19	29.93	30.13															
07	BKN	250				10.00		31	28	30	89	9	06	30.21	30.42	07	BKN	050					10.00		36	31	34	82	5	24	29.99	30.20															
10	OVC	250				10.00		40	33	37	77	9	08	30.23	30.44	10	BKN	250					10.00		50	33	43	52	3	27	29.98	30.19															
13	OVC	045				10.00		45	35	41	68	15	09	30.18	30.39	13	SCT	NC					10.00		54	32	44	43	5	23	29.91	30.12															
16	OVC	050				10.00		43	39	41	86	9	07	30.13	30.34	16	OVC	250					10.00		55	32	45	42	0	00	29.87	30.08															
19	OVC	009				9.00	-RA	43	42	43	97	10	06	30.09	30.30	19	OVC	060					10.00		51	35	44	54	13	15	29.93	30.13															
22	OVC	049				10.00	-RA	46	44	45	93	13	09	30.03	30.23	22	OVC	250					10.00		45	34	40	66	9	11	29.86	30.07															
SUNRISE: 0638								FEB 17								SUNRISE: 0631								FEB 23								SUNSET: 1738															
01	OVC	010				10.00	-RA	51	48	50	89	14	11	29.98	30.18	01	OVC	060					10.00		45	35	41	68	8	11	29.79	29.99															
04	OVC	007				10.00		52	48	50	86	16	10	29.84	30.05	04	OVC	039					10.00		42	39	41	89	10	06	29.68	29.88															
07	OVC	006				4.00	+RA BR	52	50	51	93	15	08	29.75	29.95	07	OVC	016				6.00	-RA BR	42	40	41	92	17	06	29.58	29.78																
10	OVC	006				1.50	RA BR	54	51	52	88	12	06	29.65	29.85	10	OVC	007				2.50	RA BR	41	40	41	96	12	03	29.52	29.72																
13	OVC	010				1.50	-RA BR	56	55	55	94	21	11	29.45	29.65	13	OVC	007					10.00		42	41	42	96	15	03	29.35	29.56															
16	OVC	004				10.00		60	57	58	91	13	13	29.38	29.58	16	OVC	006				1.50	RA BR	44	43	44	96	13	35	29.25	29.45																
19	OVC	014				10.00		62	59	60	90	12	13	29.36	29.57	19	OVC	006				2.50	BR	43	42	43	97	14	34	29.23	29.43																
22	CLR	NC				10.00		61	58	59	90	16	17	29.33	29.54	22	OVC	006				2.50	-RA	40	38	39	93	17	32	29.23	29.44																
SUNRISE: 0637								FEB 18								SUNRISE: 0629								FEB 24								SUNSET: 1739															
01	SCT	NC				10.00		60	57	58	90	6	21	29.37	29.58	01	OVC	010					10.00	-RA	39	36	38	89	18	32	29.22	29.43															
04	CLR	NC				10.00		51	48	50	89	9	19	29.35	29.55	04	OVC	014					10.00	-RA	38	36	37	93	18	32	29.22	29.42															
07	SCT	NC				10.00		47	30	40	52	7	20	29.38	29.59	07	OVC	018					10.00	-RA	40	36	38	86	18	34	29.28	29.49															
10	OVC	130				10.00		54	31	44	42	15	22	29.40	29.60	10	BKN	046					10.00		44	36	40	73	14	33	29.35	29.55															
13	SCT	NC				10.00		61	45	53	56	13	24	29.37	29.57	13	OVC	049					10.00		50	35	43	57	17	31	29.34	29.54															
16	OVC	055				10.00		60	45	52	58	10	27	29.38	29.58	16	FEW	NC					10.00		52	29	42	41	24	33	29.35	29.55															
19	OVC	060				10.00		57	45	51	64	8	27	29.44	29.65	19	CLR	NC					10.00		48	26	39	42	13	31	29.42	29.62															
22	BKN	090				10.00		53	42	48	66	9	26	29.48	29.68	22	CLR	NC					10.00		45	29	38	54	9	30	29.50	29.70															

# OBSERVATIONS AT 3-HOURLY INTERVALS

# RICHMOND, VA

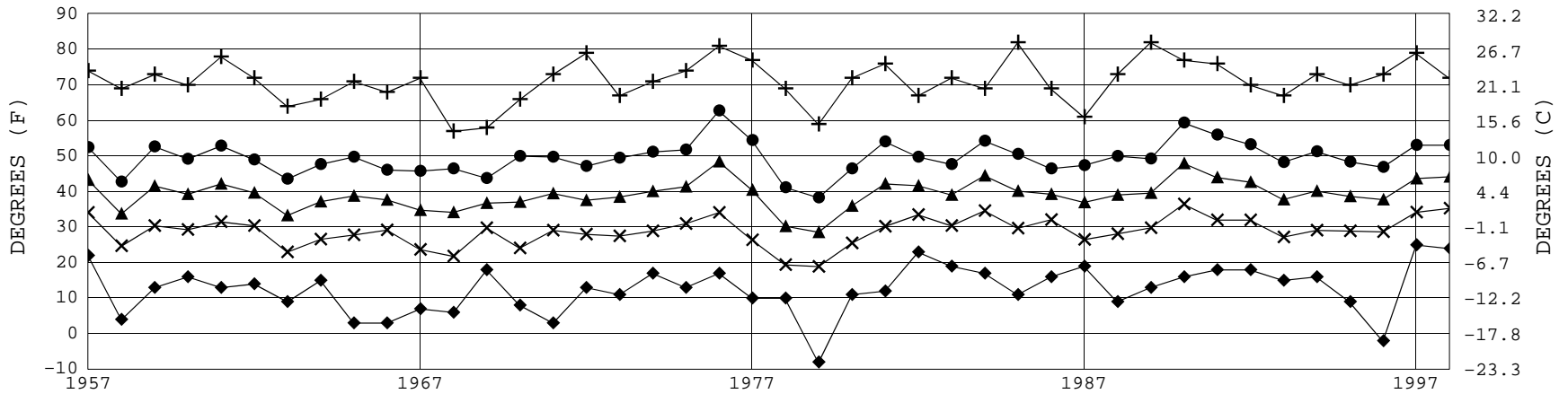
FEBRUARY 1998

RIC

WBAN # 13740

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	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	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	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL																																																																																																																																																																																																																																																																																																																																													
SUNRISE: 0628				FEB 25				SUNSET: 1740				SUNRISE: FEB 31				SUNSET:																																																																																																																																																																																																																																																																																																																																																										
01	CLR	NC		10.00	45	33	40	63	14	30	29.50	29.70																																																																																																																																																																																																																																																																																																																																																														
04	CLR	NC		10.00	46	33	40	61	15	33	29.53	29.74																																																																																																																																																																																																																																																																																																																																																														
07	CLR	NC		10.00	45	32	39	61	14	32	29.60	29.81																																																																																																																																																																																																																																																																																																																																																														
10	FEW	NC		10.00	53	34	44	49	18	33	29.66	29.86																																																																																																																																																																																																																																																																																																																																																														
13	FEW	NC		10.00	59	33	47	38	22	33	29.67	29.87																																																																																																																																																																																																																																																																																																																																																														
16	CLR	NC		10.00	62	30	47	30	16	31	29.67	29.88																																																																																																																																																																																																																																																																																																																																																														
19	FEW	NC		10.00	52	28	42	40	9	35	29.75	29.95																																																																																																																																																																																																																																																																																																																																																														
22	CLR	NC		10.00	46	31	40	56	5	35	29.82	30.02																																																																																																																																																																																																																																																																																																																																																														
SUNRISE: 0627				FEB 26				SUNSET: 1741				<b>3-HOURLY OBSERVATION NOTES</b> 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.																																																																																																																																																																																																																																																																																																																																																														
01	CLR	NC		10.00	40	30	36	68	6	36	29.82													30.02																																																																																																																																																																																																																																																																																																																																																		
04	CLR	NC		10.00	37	30	34	76	5	31	29.84													30.04																																																																																																																																																																																																																																																																																																																																																		
07	FEW	NC		10.00	37	31	35	79	6	33	29.87													30.07																																																																																																																																																																																																																																																																																																																																																		
10	SCT	NC		10.00	53	31	43	43	10	36	29.88													30.08																																																																																																																																																																																																																																																																																																																																																		
13	BKN	250		10.00	59	31	46	35	8	28	29.84													30.04																																																																																																																																																																																																																																																																																																																																																		
16	BKN	250		10.00	64	30	48	28	3	VR	29.76													29.96																																																																																																																																																																																																																																																																																																																																																		
19	BKN	250		10.00	53	32	44	45	0	00	29.76													29.96																																																																																																																																																																																																																																																																																																																																																		
22	FEW	NC		10.00	44	34	40	68	0	00	29.78													29.98																																																																																																																																																																																																																																																																																																																																																		
SUNRISE: 0625				FEB 27				SUNSET: 1742																<b>SUMMARY BY HOUR</b> <table border="1"> <thead> <tr> <th rowspan="3">HOUR (LST)</th> <th colspan="10">AVERAGES</th> <th colspan="2">RESULTANT WIND (MPH)</th> </tr> <tr> <th rowspan="2">CEILOMETER</th> <th rowspan="2">EFF CLD AMT</th> <th rowspan="2">DRY BULB</th> <th rowspan="2">DEW POINT</th> <th rowspan="2">WET BULB</th> <th rowspan="2">RELATIVE HUMIDITY</th> <th colspan="2">PRESSURE (INCHES, HG)</th> <th rowspan="2">VISIBILITY (MILES)</th> <th rowspan="2">WIND SPEED (MPH)</th> <th rowspan="2">SPEED</th> <th rowspan="2">DIRECTION</th> </tr> <tr> <th>STATION</th> <th>SEA LEVEL</th> </tr> </thead> <tbody> <tr><td>01</td><td></td><td></td><td>40</td><td>35</td><td>38</td><td>82</td><td>29.75</td><td>29.95</td><td>9.43</td><td>8</td><td>3</td><td>36</td></tr> <tr><td>02</td><td></td><td></td><td>40</td><td>35</td><td>38</td><td>83</td><td>29.75</td><td>29.95</td><td>8.66</td><td>7</td><td>4</td><td>36</td></tr> <tr><td>03</td><td></td><td></td><td>39</td><td>35</td><td>37</td><td>85</td><td>29.74</td><td>29.95</td><td>9.29</td><td>7</td><td>3</td><td>36</td></tr> <tr><td>04</td><td></td><td></td><td>38</td><td>34</td><td>37</td><td>86</td><td>29.74</td><td>29.94</td><td>8.82</td><td>8</td><td>4</td><td>1</td></tr> <tr><td>05</td><td></td><td></td><td>38</td><td>34</td><td>36</td><td>86</td><td>29.74</td><td>29.94</td><td>8.68</td><td>8</td><td>4</td><td>2</td></tr> <tr><td>06</td><td></td><td></td><td>38</td><td>34</td><td>36</td><td>86</td><td>29.74</td><td>29.95</td><td>8.32</td><td>8</td><td>4</td><td>1</td></tr> <tr><td>07</td><td></td><td></td><td>38</td><td>33</td><td>36</td><td>85</td><td>29.75</td><td>29.96</td><td>8.11</td><td>7</td><td>4</td><td>1</td></tr> <tr><td>08</td><td></td><td></td><td>39</td><td>34</td><td>37</td><td>84</td><td>29.76</td><td>29.97</td><td>7.52</td><td>8</td><td>4</td><td>2</td></tr> <tr><td>09</td><td></td><td></td><td>41</td><td>35</td><td>39</td><td>81</td><td>29.77</td><td>29.99</td><td>7.79</td><td>9</td><td>5</td><td>1</td></tr> <tr><td>10</td><td></td><td></td><td>44</td><td>35</td><td>41</td><td>73</td><td>29.78</td><td>29.98</td><td>8.36</td><td>9</td><td>5</td><td>36</td></tr> <tr><td>11</td><td></td><td></td><td>47</td><td>36</td><td>42</td><td>68</td><td>29.77</td><td>29.97</td><td>8.88</td><td>11</td><td>5</td><td>1</td></tr> <tr><td>12</td><td></td><td></td><td>49</td><td>36</td><td>43</td><td>65</td><td>29.75</td><td>29.96</td><td>8.46</td><td>10</td><td>3</td><td>1</td></tr> <tr><td>13</td><td></td><td></td><td>50</td><td>36</td><td>44</td><td>63</td><td>29.72</td><td>29.93</td><td>8.95</td><td>11</td><td>4</td><td>36</td></tr> <tr><td>14</td><td></td><td></td><td>51</td><td>36</td><td>44</td><td>61</td><td>29.70</td><td>29.91</td><td>8.95</td><td>10</td><td>4</td><td>36</td></tr> <tr><td>15</td><td></td><td></td><td>51</td><td>36</td><td>44</td><td>59</td><td>29.70</td><td>29.90</td><td>8.88</td><td>10</td><td>4</td><td>35</td></tr> <tr><td>16</td><td></td><td></td><td>52</td><td>36</td><td>45</td><td>58</td><td>29.70</td><td>29.90</td><td>8.82</td><td>10</td><td>3</td><td>34</td></tr> <tr><td>17</td><td></td><td></td><td>51</td><td>36</td><td>44</td><td>60</td><td>29.70</td><td>29.91</td><td>8.86</td><td>9</td><td>3</td><td>35</td></tr> <tr><td>18</td><td></td><td></td><td>49</td><td>36</td><td>43</td><td>65</td><td>29.71</td><td>29.92</td><td>8.88</td><td>9</td><td>3</td><td>1</td></tr> <tr><td>19</td><td></td><td></td><td>47</td><td>36</td><td>42</td><td>69</td><td>29.73</td><td>29.93</td><td>9.12</td><td>8</td><td>3</td><td>2</td></tr> <tr><td>20</td><td></td><td></td><td>46</td><td>37</td><td>42</td><td>73</td><td>29.73</td><td>29.94</td><td>9.16</td><td>8</td><td>3</td><td>2</td></tr> <tr><td>21</td><td></td><td></td><td>44</td><td>36</td><td>41</td><td>75</td><td>29.74</td><td>29.95</td><td>9.12</td><td>8</td><td>2</td><td>3</td></tr> <tr><td>22</td><td></td><td></td><td>44</td><td>36</td><td>40</td><td>76</td><td>29.74</td><td>29.95</td><td>9.38</td><td>8</td><td>3</td><td>2</td></tr> <tr><td>23</td><td></td><td></td><td>43</td><td>36</td><td>40</td><td>78</td><td>29.74</td><td>29.94</td><td>9.39</td><td>8</td><td>2</td><td>2</td></tr> <tr><td>24</td><td></td><td></td><td>42</td><td>36</td><td>40</td><td>81</td><td>29.74</td><td>29.94</td><td>9.50</td><td>8</td><td>2</td><td>35</td></tr> </tbody> </table>												HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)		CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION	STATION	SEA LEVEL	01			40	35	38	82	29.75	29.95	9.43	8	3	36	02			40	35	38	83	29.75	29.95	8.66	7	4	36	03			39	35	37	85	29.74	29.95	9.29	7	3	36	04			38	34	37	86	29.74	29.94	8.82	8	4	1	05			38	34	36	86	29.74	29.94	8.68	8	4	2	06			38	34	36	86	29.74	29.95	8.32	8	4	1	07			38	33	36	85	29.75	29.96	8.11	7	4	1	08			39	34	37	84	29.76	29.97	7.52	8	4	2	09			41	35	39	81	29.77	29.99	7.79	9	5	1	10			44	35	41	73	29.78	29.98	8.36	9	5	36	11			47	36	42	68	29.77	29.97	8.88	11	5	1	12			49	36	43	65	29.75	29.96	8.46	10	3	1	13			50	36	44	63	29.72	29.93	8.95	11	4	36	14			51	36	44	61	29.70	29.91	8.95	10	4	36	15			51	36	44	59	29.70	29.90	8.88	10	4	35	16			52	36	45	58	29.70	29.90	8.82	10	3	34	17			51	36	44	60	29.70	29.91	8.86	9	3	35	18			49	36	43	65	29.71	29.92	8.88	9	3	1	19			47	36	42	69	29.73	29.93	9.12	8	3	2	20			46	37	42	73	29.73	29.94	9.16	8	3	2	21			44	36	41	75	29.74	29.95	9.12	8	2	3	22			44	36	40	76	29.74	29.95	9.38	8	3	2	23			43	36	40	78	29.74	29.94	9.39	8	2	2	24
HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)																																																																																																																																																																																																																																																																																																																																																															
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION																																																																																																																																																																																																																																																																																																																																																														
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12			49	36	43	65	29.75	29.96	8.46	10	3	1																																																																																																																																																																																																																																																																																																																																																														
13			50	36	44	63	29.72	29.93	8.95	11	4	36																																																																																																																																																																																																																																																																																																																																																														
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17			51	36	44	60	29.70	29.91	8.86	9	3	35																																																																																																																																																																																																																																																																																																																																																														
18			49	36	43	65	29.71	29.92	8.88	9	3	1																																																																																																																																																																																																																																																																																																																																																														
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16	OVC	032		10.00	60	48	54	65	9	20	29.60	29.80																																																																																																																																																																																																																																																																																																																																																														
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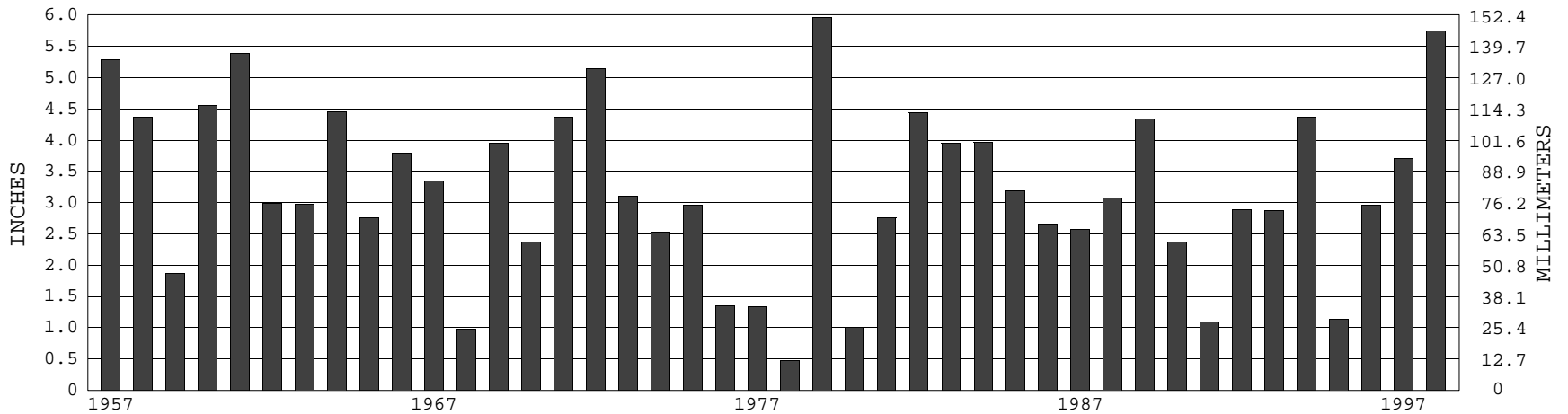
### RICHMOND, VA FEBRUARY TEMPERATURES



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

Long-Term (1957-1998) Mean: 39.3      1961-1990 Normal: 38.7

### RICHMOND, VA FEBRUARY PRECIPITATION



Long-Term (1957-1998) Mean Monthly Total: 3.23

1961-1990 Normal: 3.16



**FEBRUARY 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.*

ACTING DIRECTOR

## NOTICE

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

We welcome your questions or comments, please contact us at  
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704-271-4010(TDD)  
or [orders@ncdc.noaa.gov](mailto:orders@ncdc.noaa.gov)

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