



JANUARY 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																												
1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24																											
01	38	16*	27*	-10	11	23	38	0				0.00	30.34	30.55	6.1	21	8.6	21	20	16	21	01																											
02	60	31	46	9	20	35	19	0				0.00	30.23	30.44	10.7	21	10.8	20	21	16	21	02																											
03	64	31	48	12	34	42	17	0				0.00	30.19	30.40	10.2	21	10.6	32	22	24	24	03																											
04	66	37	52	16	43	47	13	0	MIFG BR			0.00	30.16	30.37	3.6	19	4.0	10	21	10	20	04																											
05	69	38	54	18	48	51	11	0	FG BR			0.00	30.14	30.34	4.7	17	5.3	16	18	13	19	05																											
06	67	54	61	25	60	60	4	0	RA FG+ BR			T	29.97	30.18	6.2	18	6.4	16	19	14	18	06																											
07	68	61	65	29	64	64	0	0	RA DZ BR			0.07	29.77	29.97	10.1	16	10.3	28	17	21	16	07																											
08	71*	62	67*	31	63	64	0	2	RA BR			0.78	29.49	29.68	14.0	18	14.5	30	23	25	23	08																											
09	63	47	55	19	45	52	10	0	RA			T	29.56	29.76	12.4	23	15.0	39	24	29	23	09																											
10	53	32	43	7	33	38	22	0				0.00	29.93	30.14	1.7	16	2.8	11	32	9	32	10																											
11	53	32	43	7	34	38	22	0	BR			0.00	29.95	30.16	1.5	36	2.8	14	04	11	04	11																											
12	47	32	40	4	31	37	25	0	RA BR			0.09	30.08	30.29	3.0	08	4.2	14	12	11	13	12																											
13	60	37	49	13	41	45	16	0	RA BR			0.24	29.96	30.16	2.4	23	8.3	22	01	18	02	13																											
14	39	28	34	-1	19	29	31	0				0.00	30.21	30.42	6.9	04	7.6	20	02	15	06	14																											
15	37	30	34	-1	31	33	31	0	RA BR			0.84	29.81	30.02	7.3	36	8.3	18	02	15	02	15																											
16	41	36	39	4	38	39	26	0	RA DZ BR			0.09	29.47	29.67	10.4	36	10.6	25	01	21	01	16																											
17	43	35	39	4	38	39	26	0	RA DZ BR HZ			0.07	29.69	29.90	1.1	13	5.3	14	12	13	12	17																											
18	45	31	38	3	31	35	27	0	BR			0.00	29.83	30.04	2.9	34	4.9	17	32	14	32	18																											
19	38	33	36	1	34	36	29	0	RA DZ BR			0.15	29.79	30.00	1.5	14	3.6	13	34	10	35	19																											
20	43	30	37	2	24	32	28	0	RA DZ			T	29.91	30.12	9.7	35	10.0	24	36	20	32	20																											
21	42	24	33	-2	22	29	32	0				0.00	30.09	30.30	2.1	01	3.8	15	02	13	02	21																											
22	44	32	38	3	30	35	27	0	RA BR			0.13	30.11	30.32	3.7	10	4.6	13	13	10	06	22																											
23	56	37	47	12	45	45	18	0	RA DZ FG BR			1.74	29.79	29.99	1.9	09	8.8	29	12	22	13	23																											
24	49	35	42	7	38	40	23	0	RA DZ SN PE BR			0.15	29.61	29.82	10.4	36	10.8	28	01	21	36	24																											
25	45	30	38	2	28	34	27	0	SN			T	29.93	30.14	4.5	30	5.9	23	29	17	30	25																											
26	49	28	39	3	29	34	26	0				0.00	30.14	30.35	4.6	10	5.3	15	12	13	10	26																											
27	45	30	38	2	36	38	27	0	RA BR			0.98	29.89	30.09	13.2	04	13.6	33	04	26	04	27																											
28	46	38	42	6	39	40	23	0	RA DZ SN BR			1.52	29.44	29.65	18.3	01	19.5	41*	03	31*	04	28																											
29	57	33	45	9	35	40	20	0				0.00	29.66	29.87	4.3	24	7.1	16	32	13	23	29																											
30	54	35	45	9	32	39	20	0				0.00	29.62	29.82	5.7	35	8.3	20	36	16	01	30																											
31	44	28	36	0	24	32	29	0				0.00	29.85	30.06	8.1	34	8.6	25	01	21	01	31																											
										51.5		34.9	43.2	■ ■	35.5	40.2	21.5	0.1	< MONTHLY AVERAGES		TOTALS-->				6.85		29.89	30.10	0.5	35	8.1	<- MONTHLY AVERAGES																	
										5.8		9.2	7.5	■ ■	<----- DEPARTURE FROM NORMAL ----->										3.61		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																						
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 2.33 DATE: 27-28										SEA LEVEL PRESSURE DATE TIME																													
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: DATE: DATE:										MAXIMUM : 30.67 01 1013																													
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH: DATE: DATE:										MINIMUM : 29.52 28 0556																													
HEATING: 667 -241										NUMBER OF DAYS WITH →										MAXIMUM TEMP ≥ 90: 0										MINIMUM TEMP ≤ 32: 16										PRECIPITATION ≥ 0.01 INCH : 13									
COOLING: 2 2																				MAXIMUM TEMP ≤ 32 : 0										MINIMUM TEMP ≤ 0 : 0										PRECIPITATION ≥ 0.10 INCH : 9									
																				THUNDERSTORMS : 0										HEAVY FOG : 1										SNOWFALL ≥ 1.0 INCH : 0									

JANUARY 1998
RICHMOND, VA

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RICHMOND, VA

JANUARY 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													04												04		0.00		
05													05												05		0.00		
06													06												06		T		
07		T			0.01	0.01							07	T	T	0.02	T	0.02	0.01						07		0.07		
08		T			T								08	0.01	0.01	0.01									08		0.78		
09		T											09												09		T		
10													10												10		0.00		
11													11												11		0.00		
12													12				T	0.02	0.01	0.02	0.03	0.01			12		0.09		
13													13				T								13		0.24		
14													14												14		0.00		
15						0.02	T	0.11	0.10	0.06	0.06	0.07	15	0.13	0.09	0.07	0.02	0.06	0.04	T		0.01	T		15		0.84		
16	T	T	0.01	0.02	0.05	T	0.01						16			T	T		T	T	T				16		0.09		
17	T	T											17												17		0.07		
18													18												18		0.00		
19								0.01	0.03	0.03	0.02	0.03	19	0.01	0.01	0.01			T					19		0.15			
20		T	T	T	T								20												20		T		
21													21												21		0.00		
22													22				T	T	T			T	0.04	0.09	22		0.13		
23	0.07	0.10	0.06	0.04	0.05	0.08	0.03	0.11	0.09	0.21	0.23	0.06	23	0.10	0.07	0.03	0.03	0.02	0.02	0.08	0.08	0.03	T	0.04	0.02	0.08	1.73	1.74	
24	0.01	0.01											24			0.04	0.01	0.01	T	0.05	0.02	T	T	0.08	T	0.15		1.74	
25		T	T										25												25		T		
26													26												26		0.00		
27													27												27		0.98		
28	0.07	0.02	0.07	0.08	0.19	0.16	0.13	0.04	0.07	0.11	0.07	0.05	28	0.08	T	0.06	0.04	0.05	0.13	0.10	0.07	0.16	0.10	0.18	0.08	0.97	1.53	1.52	
29													29												29		0.00		
30													30												30		0.00		
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.

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

JANUARY 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)																	
	DRY BULB	DEW POINT		WET BULB	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: 0724								JAN 01								SUNSET: 1702								SUNRISE: 0724								JAN 07								SUNSET: 1707							
01	CLR	NC				10.00		26	3	20	37	12	32	30.24	30.45	01	OVC	018					3.00	BR		63	62	62	97	7	15	29.87	30.07														
04	CLR	NC				10.00		20	6	17	55	7	36	30.31	30.52	04	OVC	003					2.00	BR		62	62	62	100	8	14	29.84	30.03														
07	CLR	NC				10.00		17	12	16	80	0	00	30.39	30.60	07	OVC	010					2.00	BR		63	62	62	97	8	18	29.84	30.04														
10	CLR	NC				10.00		25	4	20	40	7	18	30.46	30.67	10	OVC	003					1.00	BR		64	64	64	100	9	16	29.84	30.04														
13	CLR	NC				10.00		34	11	27	38	9	21	30.38	30.59	13	OVC	006					1.25	DZ BR		67	66	66	97	9	17	29.76	29.96														
16	CLR	NC				10.00		37	14	30	39	14	20	30.31	30.52	16	OVC	004					1.75	DZ BR		66	66	66	100	12	17	29.73	29.93														
19	CLR	NC				10.00		32	15	27	50	10	20	30.31	30.52	19	OVC	150					10.00		67	64	65	91	12	15	29.70	29.90															
22	SCT	NC				10.00		33	15	27	48	14	21	30.29	30.50	22	OVC	020					10.00		67	63	64	87	15	17	29.66	29.86															
SUNRISE: 0724								JAN 02								SUNRISE: 0724								JAN 08								SUNSET: 1708															
01	CLR	NC				10.00		34	17	28	50	13	22	30.24	30.45	01	OVC	031					10.00		68	64	66	87	13	17	29.60	29.80															
04	CLR	NC				10.00		33	17	28	52	12	21	30.21	30.42	04	OVC	021					10.00		69	64	66	84	16	18	29.53	29.73															
07	CLR	NC				10.00		35	17	29	48	12	23	30.22	30.43	07	OVC	021					10.00		69	65	66	87	15	17	29.47	29.67															
10	FEW	NC				10.00		42	19	34	40	9	22	30.27	30.48	10	OVC	021					10.00		70	67	68	90	17	18	29.46	29.66															
13	CLR	NC				10.00		57	21	42	25	13	21	30.21	30.41	13	OVC	120					10.00	-RA	66	64	65	93	10	19	29.40	29.60															
16	CLR	NC				10.00		59	20	43	22	13	22	30.20	30.41	16	OVC	017					10.00		65	61	63	87	14	20	29.44	29.64															
19	CLR	NC				10.00		48	24	39	39	10	21	30.25	30.46	19	OVC	014					10.00		63	60	61	90	15	19	29.47	29.67															
22	CLR	NC				10.00		41	23	34	49	7	19	30.27	30.47	22	BKN	014					10.00		63	60	61	90	16	19	29.50	29.70															
SUNRISE: 0724								JAN 03								SUNRISE: 0724								JAN 09								SUNSET: 1709															
01	CLR	NC				10.00		38	21	32	51	6	20	30.23	30.43	01	OVC	013					10.00		63	60	61	90	13	18	29.47	29.67															
04	CLR	NC				10.00		34	24	30	67	8	20	30.21	30.42	04	BKN	013					10.00		63	60	61	90	13	18	29.43	29.63															
07	FEW	NC				10.00		34	29	32	82	8	19	30.22	30.42	07	SCT	NC					10.00		60	54	57	80	14	21	29.44	29.65															
10	SCT	NC				10.00		51	32	43	48	14	22	30.24	30.45	10	SCT	NC					10.00		61	44	52	54	26	22	29.50	29.70															
13	CLR	NC				10.00		62	41	52	46	22	23	30.16	30.36	13	BKN	044					10.00		61	43	52	52	17	25	29.50	29.70															
16	SCT	NC				10.00		63	39	51	41	12	23	30.14	30.35	16	SCT	NC					10.00		60	36	49	41	21	27	29.56	29.76															
19	CLR	NC				10.00		52	38	45	59	7	22	30.18	30.38	19	CLR	NC					10.00		54	35	45	49	10	26	29.69	29.89															
22	CLR	NC				10.00		50	42	46	74	7	19	30.17	30.37	22	CLR	NC					10.00		50	34	43	54	9	27	29.76	29.96															
SUNRISE: 0724								JAN 04								SUNRISE: 0724								JAN 10								SUNSET: 1710															
01	OVC	130				10.00		46	42	44	86	7	21	30.16	30.36	01	FEW	NC					10.00		44	33	39	65	6	34	29.83	30.03															
04	SCT	NC				10.00		44	42	43	93	7	19	30.14	30.34	04	SCT	NC					10.00		37	32	35	82	0	00	29.88	30.08															
07	FEW	NC				10.00		43	41	42	93	5	19	30.17	30.37	07	FEW	NC					10.00		33	31	32	92	0	00	29.94	30.14															
10	FEW	NC				10.00		53	46	50	77	7	19	30.21	30.41	10	BKN	250					10.00		45	33	40	63	6	14	30.00	30.21															
13	SCT	NC				10.00		63	45	54	52	6	23	30.15	30.36	13	SCT	NC					10.00		50	33	43	52	6	20	29.94	30.15															
16	BKN	250				10.00		66	44	55	45	0	00	30.14	30.35	16	FEW	NC					10.00		53	33	44	47	6	18	29.92	30.13															
19	SCT	NC				10.00		51	44	48	77	0	00	30.18	30.38	19	CLR	NC					10.00		44	33	39	65	5	14	29.93	30.13															
22	CLR	NC				10.00		47	43	45	86	0	00	30.18	30.39	22	BKN	150					10.00		39	34	37	82	0	00	29.95	30.16															
SUNRISE: 0724								JAN 05								SUNRISE: 0724								JAN 11								SUNSET: 1711															
01	CLR	NC				10.00		46	44	45	93	0	00	30.18	30.38	01	BKN	250					10.00		38	34	36	86	0	00	29.94	30.14															
04	CLR	NC				9.00		45	44	45	97	0	00	30.17	30.37	04	BKN	250					10.00		35	33	34	93	3	15	29.92	30.13															
07	CLR	NC				2.50	BR	40	40	40	100	0	00	30.20	30.40	07	BKN	250					6.00	BR	33	32	33	96	0	00	29.94	30.15															
10	SCT	NC				10.00		53	49	51	86	5	18	30.22	30.42	10	BKN	250					8.00		41	37	39	86	7	04	29.98	30.19															
13	SCT	NC				10.00		66	52	58	61	7	19	30.13	30.33	13	SCT	NC					10.00		50	38	44	63	7	35	29.93	30.13															
16	BKN	250				10.00		68	51	59	55	7	19	30.09	30.30	16	CLR	NC					10.00		52	36	45	55	6	28	29.91	30.12															
19	OVC	060				10.00		60	51	55	72	8	14	30.09	30.29	19	FEW	NC					10.00		43	34	39	71	6	34	29.96	30.16															
22	OVC	060				10.00		60	53	56	78	10	17	30.08	30.28	22	CLR	NC					10.00		37	31	35	79	0	00	29.99	30.19															
SUNRISE: 0724								JAN 06								SUNRISE: 0724								JAN 12								SUNSET: 1712															
01	SCT	NC				10.00		56	54	55	93	6	17	30.05	30.25	01	CLR	NC					9.00		33	30	32	89	3	36	30.01	30.22															
04	OVC	001				0.25	FG	56	56	56	100	3	19	30.02	30.23	04	OVC	065					10.00		35	32	34	89	0	00	30.04	30.25															
07	OVC	001				0.25	BR	57	57	57	100	9	19	30.03	30.23	07	OVC	055					10.00		38	25	33	60	5	04	30.07	30.27															
10	OVC	001				2.00		60	59	59	96	7	18	30.02	30.23	10	OVC	046					10.00		42	27	36	55	7	08	30.12	30.33															
13	OVC	011				10.00		65	62	63	90	13	19	29.95	30.15	13	OVC	090					10.00		47	25	38	42	3	VR	30.10	30.30															
16	OVC	027				10.00		67	62	64	84	8	19	29.94	30.14	16	OVC	090					10.00		47	27	39	46	0	00	30.10	30.31															
19	OVC	050				10.00		64	62	63	93	9	15	29.93	30.13	19	OVC	060					10.00		42	38	40	85	0	00	30.12	30.32															
22	OVC	120				10.00		65	61	63	87	8	16	29.92	30.12	22	OVC	060					10.00		42	40	41	92	12	13	30.07	30.28															

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

JANUARY 1998

RIC

WBAN # 13740

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	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 Oktas	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	DRY BULB	DEW POINT	WET BULB
SUNRISE: 0723 JAN 13 SUNSET: 1713																									
01	BKN	150	9.00		43	41	42	93	6	16	30.02	30.23	01	OVC	250	10.00		34	28	32	79	3	17	29.86	30.06
04	OVC	034	8.00		42	40	41	92	7	19	30.00	30.20	04	OVC	095	7.00		35	31	33	85	5	18	29.82	30.02
07	OVC	070	8.00	-RA	42	40	41	92	5	18	29.96	30.17	07	OVC	070	10.00		36	30	34	79	6	15	29.80	30.01
10	OVC	027	1.00	RA BR	44	44	44	100	5	20	29.96	30.16	10	OVC	017	2.00	-RA BR	36	35	36	97	3	17	29.83	30.04
13	BKN	100	6.00	BR	52	49	50	89	13	21	29.86	30.06	13	OVC	005	2.00	-RA BR	36	35	36	97	3	11	29.75	29.96
16	CLR	NC	10.00		60	49	54	67	10	25	29.87	30.07	16	OVC	007	10.00		38	36	37	93	0	00	29.75	29.95
19	BKN	055	10.00		52	46	49	80	10	02	29.94	30.15	19	OVC	010	8.00		38	37	38	97	3	34	29.77	29.97
22	SCT	NC	10.00		43	31	38	63	10	03	30.04	30.25	22	OVC	005	6.00	BR	38	37	38	97	5	32	29.77	29.98
SUNRISE: 0723 JAN 14 SUNSET: 1714																									
01	CLR	NC	10.00		36	22	31	57	8	36	30.13	30.34	01	OVC	005	10.00		36	35	36	97	7	32	29.78	29.98
04	SCT	NC	10.00		33	21	29	61	10	04	30.17	30.37	04	OVC	015	10.00	-RA	36	34	35	93	12	36	29.82	30.03
07	CLR	NC	10.00		31	19	27	61	7	04	30.25	30.46	07	OVC	070	10.00		34	29	32	82	10	01	29.86	30.07
10	OVC	250	10.00		34	17	28	50	10	03	30.30	30.51	10	BKN	250	10.00		37	23	32	57	17	35	29.92	30.12
13	OVC	150	10.00		37	18	31	46	9	03	30.24	30.44	13	FEW	NC	10.00		41	21	34	45	13	34	29.90	30.11
16	BKN	250	10.00		38	18	31	44	8	06	30.20	30.41	16	FEW	NC	10.00		42	19	34	40	12	34	29.90	30.11
19	OVC	250	10.00		31	19	27	61	3	10	30.22	30.42	19	CLR	NC	10.00		36	18	30	48	0	00	29.98	30.19
22	OVC	250	10.00		29	20	26	69	3	04	30.20	30.41	22	CLR	NC	10.00		31	20	27	64	7	36	30.03	30.24
SUNRISE: 0723 JAN 15 SUNSET: 1715																									
01	OVC	070	10.00		30	22	27	72	6	04	30.11	30.32	01	SCT	NC	10.00		29	20	26	69	5	35	30.05	30.25
04	OVC	065	10.00		31	24	29	76	7	02	30.05	30.26	04	CLR	NC	10.00		29	20	26	69	3	35	30.06	30.27
07	OVC	024	10.00	-RA	32	30	31	92	7	03	30.01	30.22	07	CLR	NC	10.00		26	21	24	81	5	36	30.11	30.32
10	OVC	003	2.00	RA BR	34	32	33	92	12	01	29.92	30.13	10	SCT	NC	10.00		34	21	29	59	10	04	30.14	30.35
13	OVC	003	2.00	RA	37	32	35	82	9	02	29.76	29.97	13	OVC	250	10.00		40	21	33	47	3	VR	30.10	30.31
16	OVC	003	2.00	-RA	37	32	35	82	12	01	29.65	29.85	16	OVC	250	10.00		41	21	34	45	0	00	30.06	30.27
19	OVC	003	2.00	BR	36	32	34	86	9	33	29.61	29.82	19	BKN	250	10.00		35	26	32	70	0	00	30.09	30.29
22	OVC	003	2.00	-RA BR	36	35	36	97	5	30	29.59	29.79	22	OVC	150	10.00		32	25	29	75	3	13	30.10	30.31
SUNRISE: 0722 JAN 16 SUNSET: 1716																									
01	OVC	003	9.00	-RA	37	36	37	96	5	34	29.51	29.71	01	SCT	NC	10.00		33	26	31	75	5	13	30.09	30.29
04	OVC	004	1.50	-RA BR	38	37	38	97	6	35	29.47	29.68	04	SCT	NC	10.00		33	26	31	75	0	00	30.09	30.29
07	OVC	005	10.00		38	37	38	97	10	36	29.45	29.66	07	BKN	250	10.00		32	27	30	82	3	12	30.12	30.33
10	OVC	004	8.00		39	38	39	96	8	01	29.48	29.68	10	OVC	085	10.00		37	29	34	73	0	00	30.16	30.37
13	OVC	003	1.50	BR	41	40	41	96	15	01	29.37	29.57	13	OVC	130	10.00		44	28	38	53	8	12	30.10	30.31
16	OVC	005	1.50	BR	41	40	41	96	18	01	29.33	29.54	16	OVC	046	10.00		43	30	38	60	6	09	30.11	30.32
19	OVC	008	3.00	-RA BR	40	38	39	93	13	01	29.48	29.68	19	OVC	039	10.00		39	35	37	86	6	08	30.13	30.34
22	OVC	008	3.00	BR	39	38	39	96	9	01	29.56	29.76	22	OVC	033	10.00	-RA	38	34	36	86	7	05	30.09	30.30
SUNRISE: 0722 JAN 17 SUNSET: 1717																									
01	OVC	013	7.00	DZ	39	37	38	93	5	35	29.64	29.84	01	OVC	026	4.00	-RA BR	37	35	36	93	6	03	30.05	30.25
04	OVC	015	9.00		39	37	38	93	8	36	29.67	29.87	04	OVC	003	5.00	-RA BR	39	38	39	96	9	08	29.95	30.15
07	OVC	011	7.00		37	36	37	96	5	02	29.73	29.94	07	OVC	037	7.00	-RA	47	46	46	97	12	10	29.84	30.04
10	OVC	014	10.00		40	36	38	86	3	VR	29.75	29.96	10	OVC	007	2.00	-RA BR	54	53	53	97	17	16	29.77	29.98
13	OVC	013	10.00		42	37	40	82	7	17	29.71	29.91	13	OVC	003	1.00	-RA BR	53	53	53	100	13	28	29.70	29.91
16	OVC	013	2.00	BR	42	39	41	89	7	14	29.66	29.87	16	OVC	003	2.00	-RA BR	45	44	45	97	3	34	29.70	29.90
19	OVC	017	5.00	BR	41	39	40	93	8	13	29.66	29.86	19	OVC	016	0.50	+RA FG	44	43	44	96	7	32	29.73	29.93
22	OVC	007	6.00	-RA BR	41	40	41	96	3	11	29.67	29.87	22	OVC	004	2.00	-RA BR	44	43	44	96	6	36	29.70	29.90
SUNRISE: 0722 JAN 18 SUNSET: 1718																									
01	OVC	085	8.00		39	38	39	96	7	35	29.68	29.88	01	OVC	004	2.00	-RA BR	43	42	43	97	9	01	29.68	29.89
04	BKN	045	8.00		38	37	38	97	5	32	29.73	29.94	04	OVC	055	10.00		42	41	42	96	9	02	29.62	29.83
07	BKN	048	10.00		35	34	35	96	7	35	29.83	30.03	07	OVC	055	10.00		42	39	41	89	9	01	29.63	29.83
10	BKN	049	10.00		39	31	36	73	9	01	29.88	30.09	10	BKN	070	10.00		46	40	43	79	13	04	29.63	29.83
13	OVC	050	10.00		42	28	36	58	12	32	29.88	30.09	13	OVC	036	10.00		48	38	43	68	9	01	29.57	29.78
16	BKN	044	10.00		43	27	37	53	0	00	29.86	30.07	16	OVC	030	7.00	-RA	45	41	43	86	8	36	29.53	29.73
19	SCT	NC	10.00		37	28	34	70	0	00	29.88	30.09	19	OVC	014	2.50	-RA BR	38	36	37	93	13	34	29.60	29.80
22	FEW	NC	10.00		33	28	31	82	6	12	29.86	30.07	22	OVC	015	10.00	-RAPE	36	32	34	86	15	36	29.63	29.84

OBSERVATIONS AT 3-HOURLY INTERVALS

RICHMOND, VA

JANUARY 1998

RIC

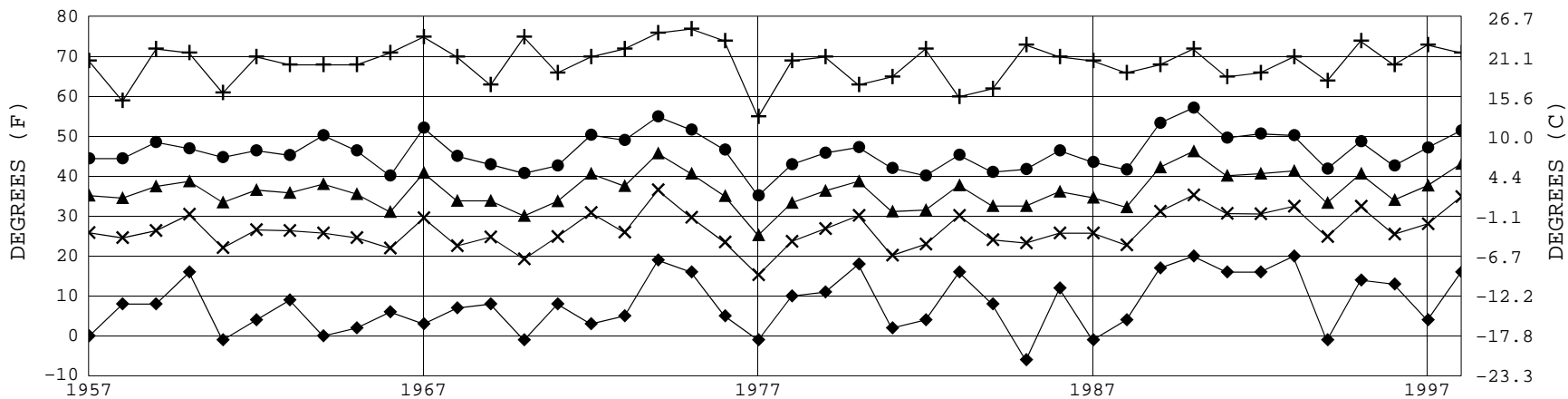
WBAN # 13740

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE ° F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE ° F				WIND		PRESSURE (INCHES, HG)													
	SKY COVER	CEILING		OBSERVATION TIME (LST)	EFF CLD AMT Okltas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER		CEILING	OBSERVATION TIME (LST)		EFF CLD AMT Okltas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL										
SUNRISE: 0718							JAN 25							SUNSET: 1726							SUNRISE: 0714							JAN 31							SUNSET: 1732						
01	OVC	050			10.00		35	31	33	85	12	34	29.70	29.90	01	CLR	NC				10.00		36	24	32	62	14	36	29.74	29.94											
04	OVC	090			10.00		35	31	33	85	6	28	29.77	29.98	04	CLR	NC				10.00		34	22	30	61	8	34	29.77	29.97											
07	CLR	NC			10.00		33	28	31	82	6	31	29.85	30.05	07	CLR	NC				10.00		31	21	28	67	5	32	29.81	30.01											
10	SCT	NC			10.00		38	27	34	65	13	29	29.95	30.16	10	BKN	050				10.00		40	25	34	55	17	36	29.86	30.06											
13	BKN	250			10.00		42	24	35	49	10	29	29.97	30.17	13	OVC	044				10.00		41	24	35	51	13	35	29.85	30.06											
16	OVC	250			10.00		44	26	37	49	3	22	29.96	30.17	16	BKN	046				10.00		44	24	36	45	8	32	29.86	30.06											
19	BKN	250			10.00		38	29	34	70	0	00	30.03	30.24	19	CLR	NC				10.00		37	25	33	62	0	00	29.91	30.12											
22	SCT	NC			10.00		32	28	31	85	3	17	30.08	30.29	22	CLR	NC				10.00		32	25	29	75	3	33	29.96	30.17											
SUNRISE: 0717							JAN 26							SUNRISE: 1727							3-HOURLY OBSERVATION NOTES																				
01	CLR	NC			10.00		29	27	28	92	0	00	30.10	30.31	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	CLR	NC			10.00		31	25	29	79	0	00	30.10	30.31																											
07	CLR	NC			10.00		30	27	29	88	3	08	30.14	30.35																											
10	OVC	250			10.00		40	31	36	70	12	10	30.18	30.39																											
13	OVC	250			10.00		46	30	39	54	6	13	30.14	30.35																											
16	BKN	250			10.00		48	30	40	50	7	13	30.13	30.33																											
19	BKN	250			10.00		41	30	37	65	12	10	30.15	30.36																											
22	SCT	NC			10.00		34	30	32	85	5	09	30.18	30.38																											
SUNRISE: 0717							JAN 27							SUNRISE: 1728																											
01	CLR	NC			8.00		31	29	30	92	6	02	30.15	30.36																											
04	BKN	065			10.00		33	30	32	89	9	05	30.12	30.32																											
07	OVC	050			10.00		35	31	33	85	9	06	30.08	30.28																											
10	OVC	065			10.00		39	32	36	76	12	04	30.01	30.22																											
13	OVC	016			10.00		42	38	40	85	13	01	29.92	30.12																											
16	OVC	010			2.00	-RA BR	41	39	40	93	17	02	29.81	30.01																											
19	OVC	007			9.00	-RA	44	42	43	93	18	04	29.70	29.90																											
22	OVC	007			5.00	RA BR	44	43	44	96	17	05	29.56	29.76																											
SUNRISE: 0716							JAN 28							SUNRISE: 1729																											
01	OVC	006			5.00	-RA BR	46	45	46	96	21	04	29.43	29.63																											
04	OVC	007			5.00	RA BR	45	44	45	97	22	04	29.32	29.52																											
07	OVC	010			4.00	RA BR	41	40	41	96	20	02	29.35	29.55																											
10	OVC	011			6.00	RA BR	38	37	38	97	22	01	29.36	29.57																											
13	OVC	012			6.00	RA BR	39	37	38	93	21	35	29.37	29.57																											
16	OVC	019			7.00	RA	39	36	38	89	21	01	29.45	29.65																											
19	OVC	012			10.00	-RA	40	37	39	89	20	35	29.59	29.80																											
22	OVC	250			10.00		40	36	38	86	12	35	29.61	29.81																											
SUNRISE: 0715							JAN 29							SUNRISE: 1730																											
01	CLR	NC			10.00		39	35	37	86	9	34	29.65	29.86																											
04	CLR	NC			10.00		37	34	36	89	6	30	29.68	29.88																											
07	CLR	NC			10.00		36	33	35	89	6	30	29.71	29.92																											
10	FEW	NC			10.00		46	36	42	68	6	27	29.75	29.96																											
13	BKN	250			10.00		54	35	45	49	7	22	29.68	29.88																											
16	FEW	NC			10.00		57	34	46	42	13	22	29.63	29.83																											
19	FEW	NC			10.00		47	35	42	63	8	17	29.61	29.81																											
22	SCT	NC			10.00		43	35	40	74	6	19	29.60	29.81																											
SUNRISE: 0714							JAN 30							SUNRISE: 1731																											
01	CLR	NC			10.00		41	34	38	76	7	22	29.56	29.77																											
04	BKN	250			10.00		42	35	39	76	6	25	29.54	29.75																											
07	OVC	090			10.00		44	35	40	71	7	31	29.57	29.78																											
10	SCT	NC			10.00		48	35	42	61	10	36	29.62	29.83																											
13	SCT	NC			10.00		51	32	43	48	9	35	29.60	29.80																											
16	BKN	070			10.00		50	32	42	50	12	02	29.60	29.80																											
19	FEW	NC			10.00		42	30	37	62	8	02	29.67	29.87																											
22	SCT	NC			10.00		38	25	33	60	9	01	29.72	29.93																											

SUMMARY BY HOUR

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	29.90	30.10	8.84	7	2	35	
02			40	35	38	83	29.89	30.10	8.74	7	1	1	
03			39	35	38	84	29.89	30.10	8.98	7	1	5	
04			40	35	38	84	29.89	30.09	8.54	7	1	4	
05			39	35	38	85	29.89	30.09	8.35	7	1	5	
06			39	35	37	85	29.89	30.10	8.24	7	1	6	
07			39	34	37	85	29.90	30.11	8.60	7	1	4	
08			39	34	37	85	29.91	30.12	7.81	7	1	1	
09			42	35	39	80	29.92	30.13	7.85	8	1	3	
10			44	36	41	74	29.93	30.14	8.13	10	1	4	
11			46	35	42	68	29.93	30.13	7.95	10	1	30	
12			48	36	43	67	29.90	30.11	8.10	10	2	28	
13			49	36	44	65	29.87	30.08	8.38	10	3	28	
14			49	36	44	63	29.86	30.06	8.11	10	2	27	
15			50	36	44	62	29.86	30.06	8.45	10	2	27	
16			50	36	44	62	29.86	30.06	8.23	9	1	28	
17			48	35	43	64	29.86	30.07	8.56	8	1	33	
18			45	36	42	72	29.88	30.08	8.81	8	1	3	
19			44	36	41	75	29.89	30.09	8.71	7	1	6	
20			43	36	40	77	29.89	30.10	9.10	8	1	9	
21			42	36	40	79	29.89	30.10	8.84	7	1	7	
22			42	36	39	80	29.90	30.10	8.84	8	1	10	
23			41	35	39	81	29.90	30.10	8.44	8	1	3	
24			41	35	39	82	29.89	30.10	8.21	7	1	3	

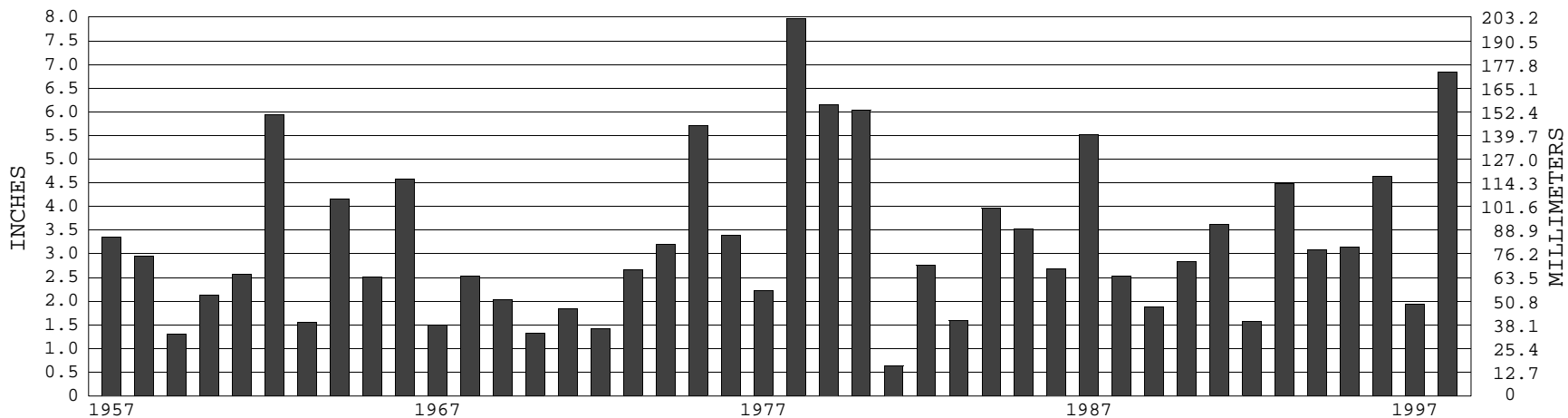
RICHMOND, VA JANUARY TEMPERATURES



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

Long-Term (1957-1998) Mean: 36.5 1961-1990 Normal: 35.7

RICHMOND, VA JANUARY PRECIPITATION



Long-Term (1957-1998) Mean Monthly Total: 3.25

1961-1990 Normal: 3.24



**JANUARY 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.

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