



# MAY 1999

## 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	DIR			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
01	66	42*	54	-8	38	46	11	0					0.00	29.94	30.15	13.6	04	14.1	36	01	25	02	01		
02	61	43	52*	-10	43	48	13	0	RA				0.03	29.86	30.05	13.0	03	13.4	31	02	25	04	02		
03	65	49	57	-5	46	51	8	0					0.00	29.80	30.00	10.9	01	11.1	25	02	20	01	03		
04	76	54	65	-2	54	58	0	0	BR				0.00	29.77	29.97	2.0	36	5.5	14	36	11	36	04		
05	82	51	67	4	58	61	0	2	RA FG+ BR HZ				0.02	29.75	29.95	4.8	15	6.1	24	23	21	23	05		
06	79	60	70	7	63	66	0	5	BR HZ				0.00	29.70	29.90	7.9	16	8.2	22	19	17	19	06		
07	85	61	73	10	62	66	0	8	BR				0.00	29.69	29.89	8.2	20	9.3	23	22	17	18	07		
08	83	61	72	8	56	63	0	7	BR				0.00	29.67	29.87	10.8	23	12.4	30	23	24	24	08		
09	84	52	68	4	50	59	0	3					0.00	29.76	29.96	2.4	28	5.1	18	25	14	29	09		
10	81	57	69	5	49	57	0	4					0.00	29.88	30.08	5.4	04	6.9	22	01	16	36	10		
11	81	53	67	2	51	58	0	2	BR				0.00	29.96	30.16	4.7	13	5.4	17	14	14	15	11		
12	82	52	67	2	54	60	0	2					0.00	29.80	30.00	3.9	18	5.1	21	14	15	18	12		
13	74	53	64	-1	60	62	1	0	RA BR				0.56	29.66	29.86	5.3	08	6.4	21	07	17	08	13		
14	60	52	56	-9	50	52	9	0	RA BR				0.65	29.88	30.09	9.6	04	9.7	23	06	18	05	14		
15	70	49	60	-6	46	52	5	0					0.00	30.02	30.22	10.6	05	11.3	28	04	21	06	15		
16	69	49	59	-7	52	55	6	0					0.00	30.05	30.26	8.6	03	9.0	20	36	15	06	16		
17	70	54	62	-4	57	59	3	0	RA BR				0.07	30.01	30.22	5.2	04	5.7	13	03	10	06	17		
18	78	53	66	-1	57	60	0	1	BR				0.00	29.88	30.08	4.9	05	5.9	16	08	13	08	18		
19	79	56	68	1	56	61	0	3					0.00	29.78	29.98	8.9	35	9.2	26	36	22	36	19		
20	77	53	65	-2	45	55	0	0					0.00	29.91	30.11	8.3	35	8.6	21	36	16	36	20		
21	82	49	66	-1	50	57	0	1					0.00	29.92	30.12	2.4	22	4.3	18	23	15	24	21		
22	87	58	73	5	59	64	0	8	TSRA RA BR HZ				0.43	29.77	29.97	4.8	21	7.3	33	27	25	28	22		
23	82	63	73	5	63	66	0	8	TSRA RA BR HZ				0.86	29.63	29.83	7.2	22	8.3	21	24	17	23	23		
24	80	55	68	0	56	62	0	3	TS TSRA BR HZ				0.13	29.46	29.66	9.1	24	12.7	37*	25	32*	26	24		
25	72	49	61	-8	47	54	4	0					0.00	29.67	29.87	7.5	24	8.7	28	26	22	24	25		
26	77	52	65	-4	53	58	0	0					0.00	29.69	29.89	8.2	23	10.0	26	23	22	22	26		
27	76	53	65	-4	46	55	0	0					0.00	29.78	29.98	7.2	34	7.6	26	32	23	32	27		
28	83	49	66	-3	49	58	0	1					0.00	29.89	30.09	3.5	27	4.6	16	27	13	28	28		
29	87	54	71	1	53	61	0	6					0.00	29.97	30.17	2.1	23	3.4	17	22	15	21	29		
30	89*	58	74	4	57	64	0	9					0.00	30.00	30.20	2.9	20	4.1	15	24	10	18	30		
31	87	61	74*	4	59	65	0	9	HZ				0.00	29.93	30.13	5.9	21	6.4	20	20	16	20	31		
< MONTHLY AVERAGES											TOTALS-->		<- MONTHLY AVERAGES												
DEPARTURE FROM NORMAL											SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3														
DEGREE DAYS											GREATEST 24-HR PRECIPITATION: 1.29 DATE: 22-23				SEA LEVEL PRESSURE DATE TIME										
MONTHLY TOTAL DEPARTURE											GREATEST 24-HR SNOWFALL: DATE: DATE:				MAXIMUM : 30.30 16 1054										
SEASON TO DATE TOTAL DEPARTURE											GREATEST SNOW DEPTH: DATE: DATE:				MINIMUM : 29.56 24 1454										
HEATING: 60 -1 3536 -427											NUMBER OF DAYS WITH =>		MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH : 8								
COOLING: 82 -10 107 5													MAXIMUM TEMP ≤ 32 : 0		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 5								
													THUNDERSTORMS : 3		HEAVY FOG : 1		SNOWFALL ≥ 1.0 INCH :								

MAY 1999 RICHMOND, VA

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## RICHMOND, VA

MAY 1999

RIC

WBAN # 13740

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.
01													01												01		0.00		
02													02	T	0.01	0.02	T		T	T	T				02		0.03		
03													03												03		0.00		
04													04												04		0.00		
05													05					T	T	T	0.01	0.01			05		0.02		
06													06												06		0.00		
07													07												07		0.00		
08													08												08		0.00		
09													09												09		0.00		
10													10												10		0.00		
11													11												11		0.00		
12													12												12		0.00		
13													13				T			T	0.08	0.10	0.07	0.19	0.10	13	0.54	0.56	
14	0.36	0.10	T	0.01	0.01	0.01	0.01	0.03	0.03	0.05	0.03	T	14	0.01	0.01	T	T		T	0.01	T			14	0.67	0.65			
15													15												15		0.00		
16													16												16		0.00		
17													17			0.01									17	0.08	0.07		
18							0.01	0.05	0.02	T			18												18		0.00		
19													19												19		0.00		
20													20												20		0.00		
21													21				T							T	21		0.00		
22													22												22	0.32	0.43		
23	0.93	0.03	T										23												23	0.96	0.86		
24													24												24		0.13		
25													25		T										25		0.00		
26													26												26		0.00		
27													27												27		0.00		
28													28												28		0.00		
29													29												29		0.00		
30													30												30		0.00		
31													31												31		0.00		

### MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)												
Ending Date												
Ending Time (Hour/Min)												

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.



# OBSERVATIONS AT 3-HOURLY INTERVALS

## RICHMOND, VA

MAY 1999

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
			SUNRISE: 0515	MAY 01		SUNSET: 1859									SUNRISE: 0508	MAY 07		SUNSET: 1903									
01	BKN	250			10.00	44	36	41	73	9	03	29.99	30.19	01	BKN	130		5.00	BR	67	66	66	97	6	18	29.66	29.85
04	SCT	NC			10.00	42	36	39	79	13	01	29.96	30.16	04	SCT	NC		10.00		66	59	62	78	7	17	29.68	29.88
07	SCT	NC			10.00	46	39	43	77	12	03	29.98	30.18	07	SCT	NC		10.00		66	60	62	81	9	21	29.73	29.93
10	SCT	NC			10.00	57	39	48	51	14	05	29.98	30.18	10	OVC	250		10.00		75	62	67	64	7	28	29.74	29.94
13	CLR	NC			10.00	64	39	52	40	18	06	29.94	30.15	13	BKN	250		10.00		83	60	68	46	9	21	29.71	29.91
16	SCT	NC			10.00	65	40	52	40	20	03	29.91	30.11	16	BKN	250		10.00		84	62	70	48	9	17	29.67	29.87
19	BKN	250			10.00	57	38	48	49	12	06	29.92	30.12	19	SCT	NC		10.00		77	62	68	60	5	18	29.67	29.86
22	FEW	NC			10.00	50	37	44	61	10	03	29.92	30.12	22	OVC	250		10.00		74	64	68	71	9	18	29.68	29.88
			SUNRISE: 0514	MAY 02		SUNSET: 1860								SUNRISE: 0507	MAY 08		SUNSET: 1904										
01	FEW	NC			10.00	47	34	41	61	12	03	29.87	30.07	01	BKN	250		10.00		69	60	64	73	15	19	29.68	29.88
04	FEW	NC			10.00	44	35	40	71	13	01	29.83	30.03	04	BKN	250		5.00	BR	67	65	66	93	9	18	29.65	29.85
07	FEW	NC			10.00	58	44	51	60	17	02	29.84	29.58	07	SCT	NC		6.00	BR	70	64	66	82	17	21	29.66	29.86
10	BKN	030			10.00	57	45	51	64	21	05	29.89	30.09	10	SCT	NC		10.00		77	61	67	58	18	22	29.68	29.88
13	OVC	037			10.00	57	46	51	67	18	03	29.88	30.09	13	BKN	055		10.00		77	57	65	50	14	26	29.67	29.86
16	OVC	140			10.00	57	49	53	75	14	02	29.87	30.07	16	SCT	NC		10.00		82	45	61	27	16	27	29.65	29.84
19	OVC	065			10.00	55	49	52	80	6	06	29.86	30.06	19	CLR	NC		10.00		77	45	59	32	8	27	29.68	29.88
22	OVC	110			10.00	54	47	50	77	9	02	29.87	30.07	22	CLR	NC		10.00		70	48	58	46	7	25	29.72	29.92
			SUNRISE: 0512	MAY 03		SUNSET: 1901								SUNRISE: 0506	MAY 09		SUNSET: 1905										
01	BKN	140			10.00	51	41	46	69	7	34	29.83	30.03	01	CLR	NC		10.00		64	49	56	58	6	27	29.73	29.93
04	OVC	031			10.00	51	34	43	52	12	36	29.80	30.00	04	CLR	NC		10.00		56	49	52	77	0	00	29.74	29.94
07	BKN	055			10.00	53	38	46	57	12	35	29.81	30.01	07	CLR	NC		10.00		63	50	56	63	6	23	29.79	29.99
10	OVC	032			10.00	60	47	53	62	17	01	29.81	30.01	10	FEW	NC		10.00		76	47	60	36	6	27	29.79	29.99
13	OVC	040			10.00	63	48	55	58	9	01	29.78	29.98	13	BKN	075		10.00		81	47	62	30	13	27	29.75	29.95
16	OVC	040			10.00	61	51	56	70	16	01	29.79	29.99	16	OVC	090		10.00		81	49	62	33	9	29	29.73	29.93
19	OVC	017			10.00	56	52	54	87	12	01	29.79	30.00	19	BKN	250		10.00		75	54	63	48	0	00	29.75	29.95
22	OVC	013			10.00	56	52	54	87	7	01	29.82	30.02	22	SCT	NC		10.00		66	53	59	63	0	00	29.80	29.99
			SUNRISE: 0511	MAY 04		SUNSET: 1901								SUNRISE: 0505	MAY 10		SUNSET: 1906										
01	OVC	012			8.00	55	53	54	93	7	34	29.80	30.00	01	FEW	NC		10.00		60	52	56	75	8	03	29.83	30.03
04	OVC	013			9.00	55	53	54	93	6	35	29.79	29.99	04	FEW	NC		10.00		59	50	54	72	10	03	29.84	30.04
07	OVC	025			7.00	56	52	54	87	7	32	29.82	30.02	07	CLR	NC		10.00		61	49	55	65	10	04	29.90	30.10
10	BKN	070			10.00	65	52	58	63	8	36	29.80	30.01	10	CLR	NC		10.00		71	46	57	41	10	03	29.92	30.12
13	BKN	040			10.00	70	54	61	57	5	VR	29.76	29.96	13	CLR	NC		10.00		77	46	60	33	8	06	29.88	30.08
16	SCT	NC			10.00	73	55	62	53	5	03	29.71	29.91	16	CLR	NC		10.00		80	47	61	31	5	02	29.85	30.05
19	CLR	NC			10.00	70	57	62	64	3	10	29.71	29.92	19	CLR	NC		10.00		74	49	60	41	0	00	29.87	30.07
22	CLR	NC			10.00	59	53	56	81	5	13	29.77	29.97	22	CLR	NC		10.00		60	52	56	75	6	12	29.92	30.11
			SUNRISE: 0510	MAY 05		SUNSET: 1902								SUNRISE: 0504	MAY 11		SUNSET: 1907										
01	CLR	NC			10.00	54	52	53	93	5	14	29.74	29.94	01	CLR	NC		10.00		58	50	54	75	3	15	29.93	30.13
04	FEW	NC			3.00	53	53	53	100	0	00	29.75	29.95	04	CLR	NC		8.00		56	52	54	87	3	12	29.94	30.14
07	OVC	001			0.25	54	54	54	100	6	11	29.77	29.98	07	CLR	NC		7.00		60	54	57	80	5	07	29.99	30.19
10	OVC	250			8.00	68	57	62	68	5	VR	29.77	29.97	10	FEW	NC		10.00		74	49	60	41	8	09	30.00	30.20
13	OVC	200			10.00	79	58	66	49	9	16	29.72	29.92	13	FEW	NC		10.00		80	50	63	35	10	12	29.97	30.17
16	OVC	080			10.00	78	60	67	54	9	17	29.70	29.90	16	SCT	NC		10.00		81	50	63	34	8	18	29.93	30.13
19	OVC	085			9.00	68	63	65	84	0	00	29.76	29.96	19	SCT	NC		10.00		71	50	59	47	9	14	29.94	30.14
22	OVC	065			6.00	65	63	64	93	8	14	29.78	29.97	22	CLR	NC		10.00		60	51	55	72	6	13	29.96	30.16
			SUNRISE: 0509	MAY 06		SUNSET: 1903								SUNRISE: 0503	MAY 12		SUNSET: 1908										
01	FEW	NC			7.00	60	58	59	93	5	17	29.72	29.92	01	CLR	NC		10.00		56	50	53	81	0	00	29.93	30.13
04	OVC	048			5.00	62	59	60	90	3	15	29.71	29.91	04	SCT	NC		10.00		54	50	52	87	0	00	29.88	30.08
07	CLR	NC			4.00	64	61	62	90	5	15	29.76	29.96	07	FEW	NC		9.00		60	52	56	75	0	00	29.89	30.09
10	OVC	030			6.00	69	63	65	81	10	18	29.74	29.94	10	CLR	NC		10.00		72	56	62	57	7	20	29.89	30.09
13	OVC	027			9.00	74	64	68	71	13	17	29.66	29.86	13	SCT	NC		10.00		79	51	63	38	9	17	29.81	30.01
16	BKN																										

# OBSERVATIONS AT 3-HOURLY INTERVALS

# RICHMOND, VA

MAY 1999

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 Okta			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING		OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL																
SUNRISE: 0502								MAY 13								SUNSET: 1909								SUNRISE: 0457								MAY 19								SUNSET: 1914							
01	SCT	NC				9.00		61	59	60	93	5	20	29.67	29.87	01	OVC	060					10.00		63	58	60	84	0	00	29.79	29.98															
04	SCT	NC				3.00	BR	59	58	58	96	0	00	29.64	29.84	04	CLR	NC					10.00		58	56	57	93	0	00	29.75	29.95															
07	OVC	009				4.00	BR	63	61	62	93	3	16	29.64	29.84	07	SCT	NC					10.00		64	61	62	90	7	34	29.77	29.97															
10	OVC	016				10.00		71	63	66	76	3	06	29.65	29.85	10	OVC	032					10.00		72	58	64	61	15	34	29.78	29.98															
13	OVC	085				10.00		73	63	67	71	10	09	29.62	29.82	13	OVC	250					10.00		78	60	67	54	13	36	29.75	29.95															
16	OVC	030				10.00		70	62	65	76	15	08	29.61	29.81	16	OVC	250					10.00		73	54	62	51	15	35	29.76	29.96															
19	OVC	040				7.00	-RA	62	58	60	86	9	06	29.67	29.87	19	OVC	070					10.00		71	55	62	57	10	01	29.79	29.99															
22	OVC	022				3.00	RA BR	59	58	58	96	8	05	29.73	29.93	22	CLR	NC					10.00		64	50	56	61	8	33	29.84	30.04															
SUNRISE: 0501								MAY 14								SUNRISE: 0457								MAY 20								SUNSET: 1915															
01	OVC	020				2.50	+RA BR	52	51	52	97	8	04	29.74	29.94	01	CLR	NC					10.00		62	46	54	56	12	34	29.85	30.05															
04	OVC	015				10.00	-RA	53	52	52	96	7	05	29.75	29.95	04	SCT	NC					10.00		59	46	52	62	12	36	29.88	30.08															
07	OVC	060				7.00	-RA	54	52	53	93	9	04	29.82	30.03	07	CLR	NC					10.00		60	46	53	60	14	36	29.93	30.13															
10	OVC	019				5.00	-RA BR	54	51	52	90	10	04	29.90	30.10	10	CLR	NC					10.00		67	46	56	47	8	01	29.95	30.15															
13	OVC	140				7.00	-RA	56	52	54	87	10	05	29.92	30.12	13	CLR	NC					10.00		74	43	57	33	7	34	29.92	30.12															
16	OVC	200				10.00		59	48	53	67	9	06	29.92	30.13	16	CLR	NC					10.00		77	43	59	30	12	34	29.88	30.08															
19	OVC	100				10.00	-RA	54	49	51	83	10	04	29.96	30.17	19	SCT	NC					10.00		70	44	56	39	7	36	29.90	30.10															
22	OVC	110				10.00		53	48	50	83	9	04	29.99	30.19	22	CLR	NC					10.00		58	47	52	67	0	00	29.94	30.14															
SUNRISE: 0501								MAY 15								SUNRISE: 0456								MAY 21								SUNSET: 1916															
01	OVC	140				10.00		52	47	49	83	8	03	29.98	30.18	01	CLR	NC					10.00		53	47	50	80	0	00	29.95	30.15															
04	OVC	140				10.00		50	46	48	86	10	02	29.96	30.17	04	CLR	NC					10.00		51	48	50	89	0	00	29.96	30.16															
07	OVC	250				10.00		52	45	48	77	12	03	30.00	30.21	07	FEW	NC					10.00		59	50	54	72	3	36	30.00	30.19															
10	BKN	250				10.00		63	46	54	54	14	05	30.05	30.25	10	SCT	NC					10.00		71	47	58	42	5	20	29.99	30.19															
13	BKN	250				10.00		68	45	56	44	14	09	30.02	30.22	13	OVC	250					10.00		79	47	61	32	8	24	29.92	30.12															
16	SCT	NC				10.00		69	44	56	41	15	07	30.00	30.20	16	OVC	250					10.00		81	48	62	32	13	26	29.86	30.06															
19	SCT	NC				10.00		62	46	54	56	8	07	30.03	30.23	19	OVC	250					10.00		74	57	64	56	7	17	29.86	30.05															
22	CLR	NC				10.00		54	48	51	80	9	02	30.07	30.27	22	SCT	NC					10.00		65	55	59	70	5	20	29.86	30.06															
SUNRISE: 0460								MAY 16								SUNRISE: 0455								MAY 22								SUNSET: 1916															
01	CLR	NC				10.00		50	47	48	89	8	01	30.06	30.26	01	CLR	NC					10.00		63	53	57	70	3	19	29.83	30.03															
04	OVC	012				10.00		50	47	48	89	9	02	30.04	30.24	04	CLR	NC					10.00		59	52	55	78	6	20	29.81	30.01															
07	OVC	018				10.00		53	50	51	89	12	36	30.08	30.28	07	CLR	NC					10.00		64	55	59	73	6	21	29.83	30.03															
10	OVC	016				10.00		59	52	55	78	10	04	30.10	30.30	10	FEW	NC					10.00		78	60	67	54	6	VR	29.82	30.01															
13	OVC	025				10.00		65	54	59	68	9	05	30.08	30.28	13	SCT	NC					10.00		85	58	68	40	7	21	29.77	29.97															
16	OVC	033				10.00		67	55	60	66	10	06	30.02	30.23	16	OVC	075					6.00	-TSRA	74	62	67	67	17	28	29.75	29.94															
19	BKN	038				10.00		65	55	59	70	8	06	30.02	30.23	19	BKN	250					7.00		72	63	66	73	7	16	29.70	29.90															
22	SCT	NC				10.00		57	53	55	87	6	03	30.04	30.25	22	BKN	110					6.00	HZ	69	64	66	84	14	18	29.71	29.91															
SUNRISE: 0459								MAY 17								SUNRISE: 0455								MAY 23								SUNSET: 1917															
01	OVC	045				10.00		56	53	54	90	8	02	30.02	30.22	01	OVC	017					1.50	+TSRA BR	64	63	63	96	12	21	29.71	29.91															
04	OVC	033				10.00		56	54	55	93	7	02	30.00	30.21	04	FEW	NC					2.00	BR	64	63	63	96	7	19	29.66	29.86															
07	OVC	006				0.75	-RA BR	57	56	56	96	6	02	30.05	30.25	07	SCT	NC					2.50	BR	66	65	65	96	9	22	29.66	29.86															
10	OVC	007				10.00		61	60	60	97	7	02	30.06	30.27	10	FEW	NC					8.00		77	64	69	64	13	25	29.66	29.85															
13	OVC	030				10.00		68	59	63	73	6	10	30.04	30.24	13	BKN	085					10.00		81	60	68	49	12	24	29.64	29.83															
16	BKN	035				10.00		70	58	63	66	3	36	30.00	30.20	16	SCT	NC					9.00		80	60	67	51	14	24	29.60	29.80															
19	BKN	040				10.00		67	59	62	76	5	06	29.98	30.18	19	SCT	NC					8.00		75	62	67	64	6	20	29.59	29.79															
22	SCT	NC				10.00		61	56	58	84	3	08	29.97	30.17	22	BKN	250					6.00	BR	67	63	64	87	5	14	29.56	29.76															
SUNRISE: 0458								MAY 18								SUNRISE: 0454								MAY 24								SUNSET: 1918															
01	BKN	050				10.00		59	56	57	90	3	34	29.98	30.18	01	OVC	250					6.00	HZ	67	62	64	84	8	18	29.53	29.72															
04	CLR	NC				9.00		54	53	53	97	3	36	29.93	30.13	04	OVC	200					6.00	BR	68	65	66	90	9	18	29.44	29.64															
07	SCT	NC				6.00	BR	58	57	57	97	8	06	29.93	30.14	07	OVC	140					5.00	HZ	72	66	68	82	17	20	29.42	29.62															
10	BKN	040				10.00		67	60	63	79	10	01	29.94	30.14	10	OVC	035					7.00		74	66	69	76	15	22	29.41	29.60															
13	BKN	045				10.00		76	60	66	58	7	02	29.89	30.09	13	BKN	060					10.00		73	60	65	64	16	28	29.38	29.58															
16	BKN	250				10.00		78	57	65	48	10	09	29.81	30.01	16	FEW	NC					10.00		79	44	60	29	22	26	29.40	29.60															
19	SCT	NC				10.00		70	56	62	61	6	10	29.79	29.99	19	FEW	NC					10.00		70	41	55	35	13	31	29.53	29.73															
22	FEW	NC				10.00		63	56	59	78	5	04	29.81	30.01	22	FEW	NC					10.00		61	44	52	54	3	33	29.58	29.78															

# OBSERVATIONS AT 3-HOURLY INTERVALS

# RICHMOND, VA

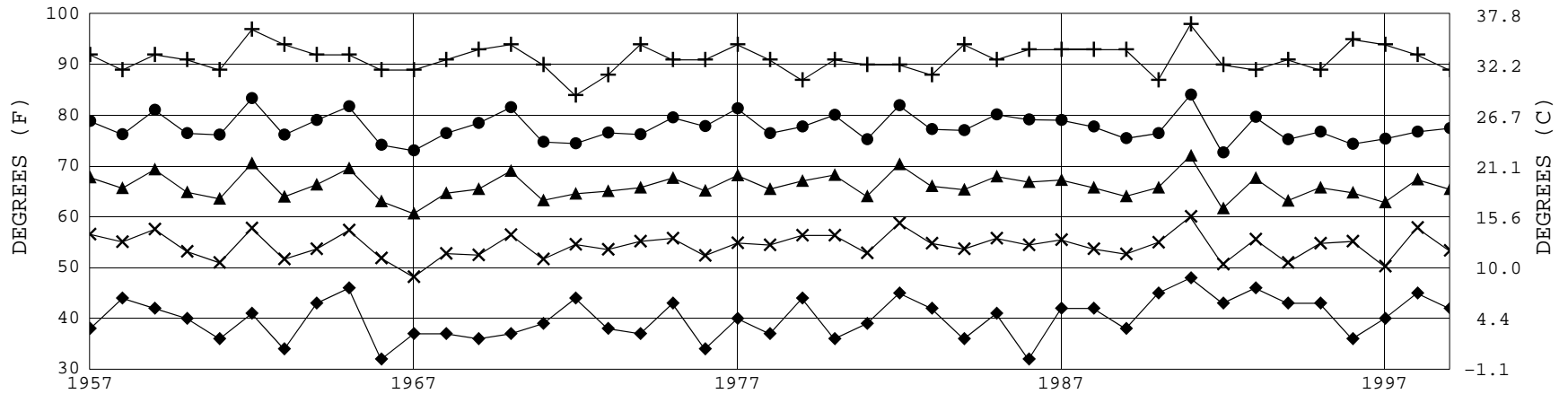
MAY 1999

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)													
	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: 0454							MAY 25							SUNSET: 1919							SUNRISE: 0451							MAY 31							SUNSET: 1923						
01	CLR	NC			10.00		59	42	51	54	8	28	29.61	29.81	01	CLR	NC			8.00			67	59	62	76	0	00	29.97	30.17											
04	CLR	NC			10.00		50	45	48	83	3	17	29.63	29.83	04	CLR	NC			8.00			64	57	60	78	5	18	29.96	30.16											
07	CLR	NC			10.00		58	47	52	67	7	17	29.67	29.87	07	FEW	NC			6.00	HZ		68	59	63	73	7	24	29.98	30.17											
10	OVC	085			10.00		66	47	56	50	13	23	29.70	29.90	10	SCT	NC			8.00			81	62	69	53	5	VR	29.97	30.17											
13	OVC	070			10.00		66	47	56	50	12	25	29.68	29.88	13	BKN	250			10.00			86	54	66	33	7	23	29.94	30.14											
16	SCT	NC			10.00		71	48	58	44	20	23	29.64	29.84	16	SCT	NC			10.00			85	56	67	37	14	22	29.89	30.09											
19	BKN	250			10.00		65	51	57	61	5	20	29.66	29.86	19	BKN	250			10.00			76	62	67	62	6	19	29.88	30.08											
22	OVC	250			10.00		65	49	56	56	8	27	29.72	29.92	22	SCT	NC			10.00			68	60	63	72	7	19	29.91	30.11											
SUNRISE: 0453							MAY 26							SUNSET: 1920							3-HOURLY OBSERVATION NOTES																				
01	SCT	NC			10.00		54	49	51	83	3	17	29.72	29.93	Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibility = 8/8.																										
04	OVC	200			10.00		55	50	52	83	6	21	29.72	29.92	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																										
07	OVC	200			10.00		59	51	55	75	6	18	29.73	29.93	NC = No ceiling detected.																										
10	BKN	250			10.00		70	50	59	49	17	25	29.73	29.93	& = Original observation contained additional weather elements.																										
13	SCT	NC			10.00		75	56	64	52	15	22	29.68	29.88	See page 3 for additional notes.																										
16	SCT	NC			10.00		76	54	63	47	12	24	29.62	29.82																											
19	SCT	NC			10.00		71	56	62	59	7	21	29.64	29.84																											
22	BKN	100			10.00		67	57	61	71	5	30	29.70	29.90																											
SUNRISE: 0452							MAY 27							SUNSET: 1920																											
01	FEW	NC			10.00		61	47	54	60	10	01	29.73	29.93																											
04	CLR	NC			10.00		55	44	50	67	7	35	29.75	29.95																											
07	CLR	NC			10.00		60	45	52	58	6	34	29.80	30.00																											
10	FEW	NC			10.00		68	45	56	44	14	31	29.79	29.99																											
13	FEW	NC			10.00		73	43	57	34	16	36	29.77	29.97																											
16	CLR	NC			10.00		75	43	58	32	8	36	29.74	29.94																											
19	CLR	NC			10.00		72	44	57	37	0	00	29.76	29.96																											
22	CLR	NC			10.00		60	48	54	65	0	00	29.82	30.03																											
SUNRISE: 0452							MAY 28							SUNSET: 1921																											
01	CLR	NC			10.00		55	49	52	80	0	00	29.84	30.05																											
04	CLR	NC			10.00		49	46	47	90	0	00	29.86	30.06																											
07	CLR	NC			10.00		62	49	55	62	0	00	29.91	30.11																											
10	CLR	NC			10.00		76	46	59	35	9	30	29.92	30.12																											
13	CLR	NC			10.00		80	48	62	33	6	VR	29.90	30.10																											
16	SCT	NC			10.00		83	50	64	32	6	34	29.87	30.07																											
19	SCT	NC			10.00		76	52	62	43	7	22	29.88	30.08																											
22	FEW	NC			10.00		67	53	59	61	0	00	29.91	30.11																											
SUNRISE: 0451							MAY 29							SUNSET: 1922																											
01	CLR	NC			10.00		60	53	56	78	0	00	29.93	30.13																											
04	FEW	NC			10.00		56	52	54	87	0	00	29.94	30.14																											
07	CLR	NC			10.00		66	57	61	73	0	00	29.99	30.19																											
10	FEW	NC			10.00		81	51	63	35	6	VR	30.01	30.21																											
13	FEW	NC			10.00		84	52	65	33	7	19	29.98	30.18																											
16	FEW	NC			10.00		86	50	65	29	7	24	29.94	30.14																											
19	SCT	NC			10.00		82	52	64	35	6	28	29.95	30.15																											
22	CLR	NC			10.00		67	57	61	71	0	00	29.99	30.19																											
SUNRISE: 0451							MAY 30							SUNSET: 1922																											
01	CLR	NC			10.00		63	57	60	81	0	00	30.00	30.20																											
04	CLR	NC			10.00		62	55	58	78	0	00	30.01	30.21																											
07	CLR	NC			8.00		66	59	62	78	3	19	30.05	30.25																											
10	CLR	NC			10.00		82	57	67	43	0	00	30.05	30.25																											
13	FEW	NC			10.00		88	52	66	29	9	22	30.02	30.22																											
16	FEW	NC			10.00		88	52	66	29	7	VR	29.97	30.17																											
19	FEW	NC			10.00		79	61	68	54	6	19	29.95	30.15																											
22	CLR	NC			9.00		70	61	64	73	3	14	29.97	30.17																											

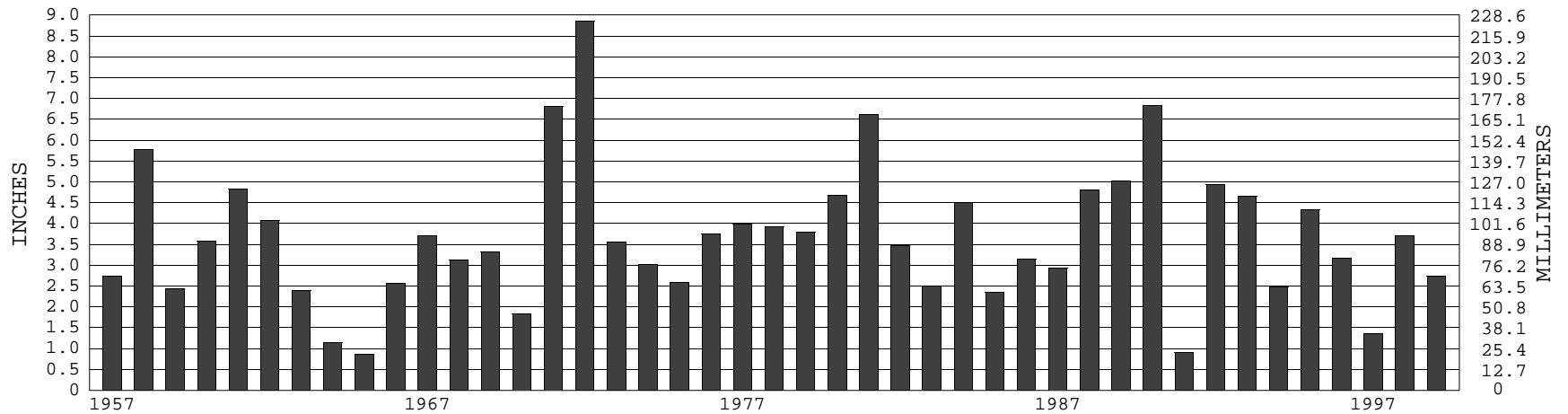
### RICHMOND, VA MAY TEMPERATURES



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

Long-Term (1957-1999) Mean: 66.1      1961-1990 Normal: 66.0

### RICHMOND, VA MAY PRECIPITATION



Long-Term (1957-1999) Mean Monthly Total: 3.68

1961-1990 Normal: 3.84



**MAY 1999**  
**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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