

# Local Climatological Data



## MONTHLY SUMMARY

LATITUDE 37° 30' N LONGITUDE 77° 20' W ELEVATION (GROUND) 164 FT. STANDARD TIME USED: EASTERN LMAN #13740

MAY 1977

RICHMOND, VIRGINIA

DATE	TEMPERATURE °F			DEGREE DAYS BASE 65°		WEATHER TYPES ON DATES OF OCCURRENCE	SNOW-ICE PELLETS OR ICE ON GROUND AT 07AM IN.	PRECIPITATION		AVG. STATION PRES-SURE IN. ELEV. FEET M.S.L.	WIND			SUNSHINE MINUTES PERCENT OF POSSIBLE	SKY COVER TENTHS		DATE		
	MAXIMUM	MINIMUM	AVERAGE	HEATING (SEASON BEGINS WITH JULY)	COOLING (SEASON BEGINS WITH JAN-1)			WATER EQUIVA- LENT IN	SNOW- ICE PELLETS IN.		RESULTANT DIR.	RESULTANT SPEED M.P.H.	AVERAGE SPEED M.P.H.		FASTEST M.P.H.	DIRECTION		SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT
1	80	43	62	-1	47	3	0	0	0	30.12	17	5.3	5.6	14	SE	818	99	1	2
2	81	58	70	7	58	0	0	.25	0	30.03	21	7.8	8.2	20	NW	457	55	10	9
3	82	58	71	8	63	0	5	.03	0	29.98	11	3.7	5.9	11	SE	436	55	10	9
4	75	62	69	6	64	0	4	.30	0	29.91	14	6.0	6.6	10	SE	398	56	10	9
5	87	64	76	12	64	0	11	.13	0	29.68	24	7.2	8.3	28	NW	468	56	7	4
6	82	54	73	9	62	0	8	T	0	28.70	23	4.1	5.8	16	NW	824	99	4	7
7	95	61	73	9	65	0	8	1.43	0	29.70	05	2.5	5.3	23	NW	372	44	8	7
8	77	51	64	0	50	1	0	0	0	29.64	30	2.2	6.9	30	N	820	98	1	7
9	63	41	52*	-13	28	13	0	0	0	28.58	34	15.7	16.3	28	NW	823	98	2	2
10	67	42	55	-10	32	10	0	0	0	28.74	32	9.5	10.2	22	N	518	62	6	4
11	73	45	59	-6	38	6	0	0	0	29.88	32	6.3	7.1	12	NW	689	82	3	2
12	81	42	62	-3	41	3	0	0	0	29.91	28	5.6	6.0	14	W	786	93	1	1
13	88	56	72	6	49	0	7	0	0	29.72	27	7.7	8.1	18	NW	728	86	2	4
14	82	59	71	5	61	0	6	.06	0	29.68	04	1.9	5.3	11	SE	454	54	2	8
15	76	50	63	-3	44	2	0	0	0	29.90	04	6.2	7.3	10	NE	851	100	2	2
16	92	40*	61	-5	45	4	0	0	0	30.08	16	3.6	3.9	9	SE	849	100	7	5
17	91	53	72	5	58	0	0	0	0	29.97	18	2.2	3.7	7	NW	848	99	0	1
18	94*	59	77*	10	62	0	12	0	0	29.86	29	2.9	4.5	19	NW	535	63	4	3
19	90	61	76	9	64	0	11	.13	0	29.82	01	2.8	4.0	14	E	395	46	8	8
20	83	58	71	3	60	0	6	0	0	29.96	07	4.1	6.3	9	SE	633	74	4	4
21	85	53	69	1	59	0	4	0	0	30.05	11	6.1	7.1	16	SE	801	93	1	1
22	86	57	72	4	61	0	7	0	0	30.08	10	5.1	6.6	14	SE	536	52	6	5
23	86	60	75	5	64	0	8	0	0	30.08	13	4.1	4.9	13	SE	408	47	9	8
24	74	59	67	-2	65	0	2	.40	0	30.07	09	5.7	6.0	13	SE	408	47	0	10
25	75	67	71	2	69	0	6	0	0	29.85	11	2.5	3.9	8	N	0	0	10	10
26	82	58	70	1	66	0	5	0	0	29.73	03	2.4	4.2	12	SE	224	26	9	9
27	85	52	69	0	58	0	4	0	0	28.72	02	1.2	4.0	6	SE	761	88	1	2
28	88	53	71	1	59	0	6	0	0	29.61	21	4.5	5.0	10	SW	769	88	3	3
29	88	62	75	5	66	0	10	.86	0	29.67	08	2.7	5.8	24	W	442	51	6	6
30	68	61	65	-5	62	0	0	0	0	29.89	05	6.1	6.9	8	NE	0	0	10	10
31	77	63	70	-1	65	0	5	0	0	29.87	12	4.3	4.9	9	SE	15	2	10	30

SUM	SUM	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
2523	1703	42	148	3.98	0	29.86	04	3	6.3	30	N	16299	FOR	172	166				
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	PRECIPITATION	DEP.					DATE: 08	POSSIBLE	MONTH	AVG.	AVG.		
81.4	54.9	68.2	1.7	56	-22	37	>.01 INCH	10	0.57					26391	62	5.5	5.4		

### SUMMARY BY HOURS

\* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.  
 † TRACE AMOUNT.  
 + ALSO ON AN EARLIER DATE, OR DATES.  
 HEAVY FOG - VISIBILITY 1/4 MILE OR LESS.  
 FIGURES FOR WIND DIRECTIONS ARE TENS OF DEGREES CLOCKWISE FROM TRUE NORTH. 00 = CALM.  
 DATA IN COLS. 6 AND 12-15 ARE BASED ON 7 OR

MORE OBSERVATIONS PER DAY AT 3-HOUR INTERVALS. FASTEST MILE WIND SPEEDS ARE FASTEST OBSERVED ONE-MINUTE VALUES WHEN DIRECTIONS ARE IN TENS OF DEGREES. THE / WITH THE DIRECTION INDICATES PEAK GUST SPEED.  
 ANY ERRORS DETECTED WILL BE CORRECTED AND CHANGES IN SUMMARY DATA WILL BE ANNOTATED IN THE ANNUAL SUMMARY

HOUR LOCAL TIME	SKY COVER TENTHS	STATION PRES-SURE IN.	TEMPERATURE				RELATIVE HUMIDITY %	WIND SPEED M.P.H.	DIRECTION	SPEED M.P.H.
			AIR °F	WET BULB °F	DEPT. °F	FASTEST M.P.H.				
01	4	29.86	60	57	55	84	3.8	09	.1	
04	4	29.65	58	56	54	88	4.3	34	.9	
07	5	29.89	53	59	56	80	5.8	33	1.6	
10	5	29.90	73	64	58	61	8.4	32	2.6	
13	6	29.86	78	66	57	51	8.4	25	.4	
16	6	29.82	78	66	57	52	8.5	05	.7	
19	6	29.82	72	64	58	66	6.5	13	3.5	
22	5	29.85	64	60	57	81	4.5	11	1.3	

### HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

DATE	A. M. HOUR ENDING AT												P. M. HOUR ENDING AT												DATE
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
1																									1
2																									2
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4			T	T	T	.01	.13	.09	T													.01	.02		4
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*Daniel B. Mitchell*  
 DIRECTOR, NATIONAL CLIMATIC CENTER

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OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SAT. COVER TELEPERS.	CEILING HDS. OF FT.	VISI- BILITY MILES	WEATHER	TEMPERATURE				WIND SPEED KNOTS	WIND DIR	SAT. COVER TELEPERS.	CEILING HDS. OF FT.	VISI- BILITY MILES	WEATHER	TEMPERATURE				WIND SPEED KNOTS	WIND DIR	SAT. COVER TELEPERS.	CEILING HDS. OF FT.	VISI- BILITY MILES	WEATHER	TEMPERATURE				WIND SPEED KNOTS	WIND DIR	
					AIR * F	NET BULB * F	DEW * F	REL. HUM. %							AIR * F	NET BULB * F	DEW * F	REL. HUM. %							AIR * F	NET BULB * F	DEW * F	REL. HUM. %			AIR * F
DAY 01																															
01	0	UNL	12		50	46	41	71	18	3	8	UNL	12		62	57	53	73	19	6	5	UNL	12		62	61	60	93	13	5	
04	0	UNL	12		47	45	44	88	00	3	10	100	12		60	56	53	79	19	6	10	200	5	9	F	62	61	61	97	00	5
07	0	UNL	12		53	50	48	83	18	3	10	100	10		64	59	55	73	21	7	8	100	5	9	FH	65	64	63	93	21	3
10	0	UNL	12		71	62	56	58	18	9	10	250	8		75	66	60	62	22	11	10	100	5	H	77	69	65	67	03	8	
13	1	UNL	12		79	60	44	28	19	7	8	250	8		81	59	62	53	23	13	5	UNL	5	H	81	69	63	54	11	5	
16	3	UNL	12		80	60	45	29	18	7	8	80	8		80	68	61	52	21	7	8	UNL	5	H	80	70	65	60	08	8	
19	2	UNL	12		68	57	47	46	13	7	10	30	2	TRW	66	63	61	64	18	7	10	30	3	H	72	67	65	78	14	9	
22	2	UNL	12		59	53	48	67	16	4	10	80	8		63	62	61	93	00	0	10	50	3	RH	67	65	64	90	18	3	
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NOTES  
CEILING  
UNL INDICATES UNLIMITED

WEATHER  
\* TORNAADO  
T THUNDERSTORM  
Q SQUALL  
R RAIN  
RW RAIN SHOWERS  
ZR FREEZING RAIN  
L DRIZZLE  
ZL FREEZING DRIZZLE  
S SNOW  
SP SNOW PELLETS  
IC ICE CRYSTALS  
BN BLOWING SAND  
SK SNOW SHOWERS  
SG SNOW GRAINS  
IP ICE PELLETS  
A HAIL  
F FOG  
IF ICE FOG  
GF GROUND FOG  
BD BLOWING DUST  
BN BLOWING SAND  
BS BLOWING SNOW  
BY BLOWING SPRAY  
K SMOKE  
H HAZE  
D DUST

WIND  
DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS. INDICATED IN TENS OF DEGREES FROM TRUE NORTH: I.E., 09 FOR EAST, 18 FOR SOUTH, 27 FOR WEST. ENTRY OF 00 IN THE DIRECTION COLUMN INDICATES CALM.  
SPEED IS EXPRESSED IN KNOTS; MULTIPLY BY 1.15 TO CONVERT TO MILES PER HOUR.

STATION RICHMOND VA YEAR & MONTH 77 05

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