

# Local Climatological Data



## MONTHLY SUMMARY

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

USB FILE COPY

FEBRUARY 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	PRECIPITATION		AVG. STATION PRESSURE IN. 177	WIND				SUNSHINE		SKY COVER TENTHS		DATE		
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	HEATING (SEASON BEGINS WITH JULY)	COOLING (SEASON BEGINS WITH JAN.)			WATER EQUIVALENT	SNOW-ICE PELLETS		RESULTANT DIR.	RESULTANT SPEED M.P.H.	AVERAGE SPEED M.P.H.	FASTEST MILE	MINUTES	PERCENT OF POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT			
1	2	3	4	5	6	7A	7B	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
1	40	21	31	-7	8	34	0	0	0	0	0	0	29.83	26	9.5	10.8	18	NW	620	100	1	0	1
2	41	10	25	-12	14	39	0	0	0	0	0	0	30.15	04	3.7	4.8	8	NE	623	100	1	0	2
3	54	23	38	1	18	26	0	0	0	0	0	0	29.78	21	9.9	10.2	18	SW	463	74	10	6	3
4	58	32	45	7	25	20	0	0	0	0	0	0	29.48	26	6.9	7.1	13	W	468	75	4	6	4
5	48	19	34	-4	19	31	0	0	0	T	0	0	29.42	30	13.3	14.7	20	NW	74	12	9	7	5
6	32	12	22	-16	1	43	0	0	0	0	0	0	29.89	30	9.7	10.6	18	NW	630	100	0	0	6
7	37	13	25	-13	5	40	0	0	0	0	0	0	30.18	33	6.9	7.3	12	NW	632	100	0	0	7
8	40	10	25	-13	8	40	0	0	0	0	0	0	30.27	02	2.1	5.0	11	NE	634	100	0	0	8
9	54	13	34	-4	14	31	0	0	0	0	0	0	30.14	20	5.0	5.8	11	NE	636	100	0	0	9
10	65	32	49	10	25	16	0	0	0	0	0	0	30.08	24	4.7	6.5	7	SW	638	100	0	0	10
11	70	27	49	10	26	16	0	0	0	0	0	0	30.02	22	5.4	5.8	15	SW	640	100	1	0	11
12	63	28	46	7	31	19	0	0	0	0	0	0	29.84	19	4.5	5.3	10	SW	201	31	9	7	12
13	61	38	50	11	37	15	0	1	0	0	0	0	29.47	24	9.7	11.5	22	NW	491	76	5	5	13
14	59	25	42	3	23	23	0	0	0	0	0	0	29.88	23	6.0	7.5	12	SW	547	100	3	3	14
15	50	30	40	1	27	25	0	0	0	0	0	0	29.76	03	3.5	7.8	12	W	260	40	9	8	15
16	38	22	30	-8	13	35	0	0	0	0	0	0	29.89	01	9.0	9.9	14	N	555	95	2	2	16
17	37	14	26	-14	7	39	0	0	0	0	0	0	29.95	33	5.9	6.2	13	N	601	82	2	2	17
18	42	13	28	-12	21	37	0	1	0	0	0	0	29.94	17	4.9	6.0	15	SE	309	47	9	7	18
19	55	30	43	3	36	22	0	1	0	0	0	0	29.74	18	3.1	6.2	10	SW	276	42	10	10	19
20	47	27	37	-3	28	28	0	2	0	0	0	0	29.53	32	9.4	9.8	18	NW	283	43	8	7	20
21	44	26	35	-5	12	30	0	0	0	0	0	0	29.78	29	9.7	10.4	18	NW	663	100	2	1	21
22	66	20	43	3	23	22	0	0	0	0	0	0	29.84	20	9.4	9.8	22	SW	665	100	1	1	22
23	73	40	57	16	33	8	0	0	0	0	0	0	29.82	20	8.7	8.1	17	SW	664	99	2	1	23
24	69	45	57	16	51	8	0	1	3	0	0	0	29.57	18	7.2	8.6	23	NW	109	16	9	8	24
25	72	43	58	17	34	7	0	0	0	0	0	0	29.60	24	12.0	12.5	32	SW	586	89	0	0	25
26	77	40	59	18	40	6	0	0	0	0	0	0	29.76	15	3.3	3.9	11	SE	552	82	9	6	26
27	77	53	65	23	54	0	0	1	0	0	0	0	29.66	20	10.2	11.5	23	W	289	43	9	9	27
28	56	33	45	3	28	20	0	0	0	0	0	0	29.83	33	6.4	8.2	14	N	667	98	0	2	28

SUM	SUM					TOTAL	TOTAL			TOTAL	TOTAL		FOR THE MONTH:				TOTAL	X	SUM	SUM		
1525	738					680	0	NUMBER OF DAYS	1.34	T	29.82	25	3.9	8.3	32	SW	13886	FOR	115	100		
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.			PRECIPITATION	DEP.								DATE	25	POSSIBLE	MONTH	AVG.	AVG.
54.5	26.4	40.5	1.1	24	-37	0		5.01 INCH	5	-1.67									18164	76	4.1	3.6

\* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.  
 T 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 DR

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 DUST SPEED.  
 ANY ERRORS DETECTED WILL BE CORRECTED AND CHANGES IN SUMMARY DATA WILL BE ANNOTATED IN THE ANNUAL SUMMARY

### SUMMARY BY HOURS

HOUR	LOCAL TIME	SKY COVER TENTHS	AVERAGES							RESULTANT WIND	
			STATION PRESSURE IN.	TEMPERATURE		RELATIVE HUMIDITY %		WIND SPEED M.P.H.	DIRECTION	SPEED M.P.H.	
			AIR °F	NET BULB °F	DEW PT. °F	RELATIVE HUMIDITY %	WIND SPEED M.P.H.	DIRECTION	SPEED M.P.H.		
01	4	29.83	35	31	23	63	7.0	25	3.4		
04	3	29.82	33	28	23	70	7.0	24	2.8		
07	4	29.85	30	28	23	76	6.5	25	3.0		
10	3	29.86	42	36	25	52	10.1	26	3.8		
13	4	29.81	50	40	23	36	11.7	26	6.2		
16	4	29.78	52	40	23	37	10.8	26	7.1		
19	3	29.80	43	36	24	50	7.4	24	2.5		
22	3	29.83	38	33	24	59	6.2	25	2.5		

### 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	
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*Daniel B. Mitchell*  
 DIRECTOR, NATIONAL CLIMATIC CENTER

# OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	VISI-BILITY			TEMPERATURE				WIND			VISI-BILITY			TEMPERATURE				WIND			VISI-BILITY			TEMPERATURE				WIND									
	SKY COVER	CEILING	WHOLE	AIR * F	NET BULB	DEW P	REL. HUM.	DIR	SPEED	SKY COVER	CEILING	WHOLE	AIR * F	NET BULB	DEW P	REL. HUM.	DIR	SPEED	SKY COVER	CEILING	WHOLE	AIR * F	NET BULB	DEW P	REL. HUM.	DIR	SPEED	SKY COVER	CEILING	WHOLE	AIR * F	NET BULB	DEW P	REL. HUM.	DIR	SPEED	
01	0	UNL	15	27	21	04	37	26	9	0	UNL	15	20	19	14	77	36	4	0	UNL	12	DAY 03	25	23	16	68	18	5	0	UNL	12	25	23	16	68	18	5

**NOTES**

CEILING  
UNL INDICATES UNLIMITED

**WEATHER**

- # TORNADO
- T THUNDERSTORM
- Q SQUALL
- R RAIN
- RM RAIN SHOWERS
- ZR FREEZING RAIN
- L DRIZZLE
- ZL FREEZING DRIZZLE
- S SNOW
- SP SNOW PELLETS
- IC ICE CRYSTALS
- SM 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 02

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