



# LOCAL CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
ENVIRONMENTAL DATA SERVICE

RICHMOND, VIRGINIA  
NATIONAL WEATHER SERVICE OFC  
R.E. BYRD INTERNATIONAL AP.  
JANUARY 1974

Latitude 37° 30' N Longitude 77° 20' W Elevation (ground) 164 ft Standard time used: EASTERN WBAN #13740

Date	Temperature °F					Degree days Base 65°		Weather types on dates of occurrence 1 Fog 2 Heavy fog x 3 Thunderstorm 4 Ice pellets 5 Hail 6 Glaze 7 Duststorm 8 Smoke, Haze 9 Blowing snow	Snow ice pellets or ice on ground at 07AM In.	Precipitation Water equivalent In.	Snow ice pellets In.	Avg. station pressure In. Elev. feet m.s.l.	Wind			Sunshine		Sky cover Tenths		Date			
	Maximum	Minimum	Average	Departure from normal	Average dew point	Heating	Cooling						Resultant direction	Resultant speed m.p.h.	Average speed m.p.h.	Speed m.p.h.	Direction	Hours and tenths	Percent of possible		Sunrise to sunset	Midnight to midnight	
1	52	38	45	8	20	0	0	2	0	0	0	29.95	01	4.3	6.8	11	NE	0.0	0	10	9	1	
2	39	29	34	-9	25	0	0	1	6	0	0	30.37	05	0.0	0.0	11	NE	0.0	0	10	9	2	
3	40	30	35	-2	30	0	0	2	6	0	0	30.12	15	0.0	0.0	6	S	0.0	0	10	10	3	
4	40	36	38	1	27	0	0	1		0	0	29.94	05	0.0	0.0	11	N	0.0	0	10	10	4	
5	43	31	37	0	28	0	0	1		0	0	29.04	05	0.0	0.0	8	S	3.2	33	7	10	5	
6	44	36	40	3	25	0	0	1	8	0	0	29.81	19	3.0	4.2	8	S	0.0	0	10	10	6	
7	50	34	42	4	23	0	0	2	8	0	0	29.78	02	1.8	4.6	8	NW	0.7	7	8	8	7	
8	46	28	37	-9	26	0	0	0		0	0	29.16	02	4.8	5.6	10	SE	5.1	53	7	8	8	
9	54	35	44	9	19	0	0	1		0	0	29.97	29	1.1	8.3	14	SE	0.0	0	10	10	9	
10	51	44	58	21	5	0	0	2		0	0	29.93	12	2.7	9.8	9	SE	0.0	0	10	10	10	
11	72	23	34	-13	23	0	0	0		0	0	29.69	25	9.4	2.2	22	SW	1.7	17	10	10	11	
12	44	23	34	-10	10	0	0	0	8	0	0	30.08	01	7.7	8.6	19	NW	2.6	27	7	7	12	
13	34	19*	27*	-10	10	0	0	0		0	0	30.43	03	4.6	6.0	11	NE	5.5	56	6	6	13	
14	36	22	29	-8	17	0	0	1	4	0	0	30.25	20	5.0	6.0	15	SW	0.6	10	8	8	14	
15	64	29	47	10	38	0	0	1	8	0	0	29.81	24	8.3	8.8	19	W	7.3	74	5	3	15	
16	69	38	54	16	42	0	0	0		0	0	10.1	1	4.9	10.2	20	SW	3.0	51	9	3	16	
17	63	40	52	14	41	0	0	0		0	0	29.89	06	7.5	13	NE	9.8	99	3	6	17		
18	45	37	41	3	30	0	0	1	8	0	0	30.20	12	6.2	7.9	9	W	1.2	12	9	9	18	
19	47	42	47	19	43	0	0	0		0	0	29.92	22	2.8	7.6	12	SW	6.6	66	6	6	19	
20	47	42	45	7	37	0	0	2	8	0	0	30.02	05	5.2	5.6	9	NE	0.0	0	10	10	20	
21	60	42	51	13	44	0	0	2		0	0	29.80	31	9.9	9.9	9	W	4.3	43	7	6	21	
22	65	32	49	11	41	0	0	1	8	0	0	29.94	16	2.4	2.9	7	SW	10.0	100	7	2	22	
23	76*	45	61	23	47	0	0	1	4	0	0	29.88	28	7.8	9.6	23	SW	8.1	80	7	6	23	
24	60	38	49	11	36	0	0	1	8	0	0	30.09	04	8.2	14	NE	0.0	0	10	10	24		
25	48	38	43	5	39	0	0	1		0	0	30.14	04	4.3	4.9	9	N	0.2	0	10	10	25	
26	52	44	48	10	44	0	0	2		0	0	30.08	16	4.3	4.3	12	S	0.0	0	10	10	26	
27	74	50	62*	24	54	0	0	1		0	0	29.76	22	10.3	11.9	21	SE	6.7	66	5	5	27	
28	70	50	60	22	55	0	0	1		0	0	29.74	18	4.9	6.0	30	NW	0.5	5	10	6	28	
29	63	44	54	16	42	0	0	0		0	0	29.83	04	6.9	6.9	13	SE	8.1	79	6	6	29	
30	64	41	53	15	42	0	0	1		0	0	29.84	11	1.1	2.6	6	N	8.7	84	1	1	30	
31	67	40	54	16	42	0	0	2	8	0	0	29.73	22	4.7	7.3	22	SW	4.8	66	8	3	31	
Sum		Sum		Total		Total		Number of days		Total		Total		For the month:		Total		% Sum		Sum		Sum	
1704		1135		589		0		3.21		3.21		29.96		16		5.6		30		102.2		240	
Avg.		Avg.		Avg.		Avg.		Dep.		Dep.		Date:		28		Possible		for month		Avg.		Avg.	
55.0		36.6		45.8		8.3		38		0		0.35								307.3		33	
Season to date		Total		Total		Total		Snow, ice pellets		Total		Total		Greatest in 24 hours and dates		Greatest depth of ground of snow, ice pellets or ice and date							
Number of days		Maximum Temp.		Minimum Temp.		1915		0		Thunderstorms		0		Precipitation		Snow, ice pellets							
≥ 90° F		≥ 32°		≤ 32°		≤ 0°		0		Heavy fog X		9		6.5		3-4		14+		0		0	
0		0		9		0		-44.8		0		Clear 2		Partly cloudy 8		Cloudy 20							

### HOURLY PRECIPITATION (Water equivalent in inches)

Date	A. M. Hour ending at												P. M. Hour ending at											
	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	.01	.01																						
2																								
3	T	T	.01	T	T	.01	T	T	T	T	T	T	T	T	T	T	T	T	T	.03	.01	.01	.01	
4	.10	.05	.06	.05	.05	.01	T														.02	.03	.28	
5																								
6		.01	.01	.05	.02	.01																		
7			.01	.10	.13	.14	.11	.02	.03	T	T									.02	.04	.01	T	
8																								
9																								
10	T								.01	.01	T	T	T	T	T	T	T	T	T				T	
11																								
12																								
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20								T	T	T														
21								T	.24	.15	.12	.06												
22																								
23																								
24			.02	.12	.13	.03	.02			T	T										.04	.02	.01	T
25																								
26																								
27		T	T					.06	.06	.01	.01	.07	.06	.04	.03	.01	.01	T	T	T	T	T	T	
28																								
29																								
30																								
31																								

Extreme temperatures for the month. May be the last of more than one occurrence.  
- Below zero temperature or negative departure from normal.  
+ ≥ 70° at Alaskan stations.  
X Also on an earlier date, or dates.  
+ Heavy fog restricts visibility to 1/4 mile or less.  
T In the Hourly Precipitation table and in columns 9, 10, and 11 indicates an amount too small to measure.  
The season for degree days begins with July for heating and with January for cooling.  
Data in columns 6, 12, 13, 14, and 15 are based on 8 observations per day at 3-hour intervals.  
Wind directions are those from which the wind blows. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.  
Figures for directions are tens of degrees from true North; i.e., 09 = East, 18 = South, 27 = West, 36 = North, and 00 = Calm. When directions are in tens of degrees in Col. 17, entries in Col. 16 are fastest observed 1-minute speeds. If the / appears in Col. 17, speeds are gusts.  
Any errors detected will be corrected and changes in summary data will be annotated in the annual summary.

Subscription Price: Local Climatological Data \$ 2.00 per year including annual issue if published, foreign mailing 75¢ extra. Single copy: 20¢ for monthly issue; 15¢ for annual summary. Make checks payable to Department of Commerce, NOAA. Send payments and orders to National Climatic Center, Federal Building, Asheville, North Carolina 28801.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

*William H. Haggard*  
Director, National Climatic Center

### SUMMARY BY HOURS

Hour	Local time	Sky cover Tenths	Station pressure In.	Temperature				Relative humidity %	Wind speed m.p.h.	Direction	Resultant wind Speed m.p.h.
				Air °F	Wet bulb °F	Dew Pt. °F	of				
01	8	29.97	43	40	37	82	5.7	11	1.5		
04	9	29.96	42	40	37	84	5.4	13	.8		
07	8	29.97	41	40	37	86	5.9	08	.3		
10	8	30.00	46	43	39	78	7.3	10	1.3		
13	8	29.95	51	45	39	67	7.8	25	2.1		
16	7	29.93	52	46	38	62	7.3	23	1.8		
19	7	29.96	46	42	38	74	6.8	12	.3		
22	7	29.98	43	41	37	79	6.5	10	1.0		

NOTICE: CLIMATOLOGICAL NORMALS BASED ON THE PERIOD 1941-1970 ARE EFFECTIVE AS FOLLOWS  
HEATING DEGREE DAYS - JULY 1, 1973  
COOLING DEGREE DAYS, TEMPERATURE, AND PRECIPITATION - JANUARY 1, 1974

OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SKY COVER Tenths	CEILING Hnds. of ft.	VISI- BILITY Miles	WEATHER	TEMPERATURE					WIND Dir. SPEED Knots	VISI- BILITY Miles	WEATHER	TEMPERATURE					WIND Dir. SPEED Knots	VISI- BILITY Miles	WEATHER	TEMPERATURE													
					AIR °F	WET BULB °F	DEW PT. °F	REL. HUM. %	DIR.				SPEED Knots	AIR °F	WET BULB °F	DEW PT. °F	REL. HUM. %				DIR.	SPEED Knots	AIR °F	WET BULB °F	DEW PT. °F	REL. HUM. %	DIR.	SPEED Knots						
01	10	2	2	4	47	46	46	94	27	3	10	40	10	10	DAY 01	37	33	26	65	04	9	10	7	2	2	8	LF	31	31	30	96	16	4	3
04	10	1	0	4	49	48	48	96	23	3	10	40	10	10	DAY 02	34	30	24	67	04	6	10	2	2	2	8	LF	32	32	31	96	27	4	3
07	10	4	2	8	50	49	49	96	30	4	10	100	10	10	DAY 03	30	27	22	72	04	6	10	2	1	8	LF	34	33	32	92	18	4	4	
10	10	3	1	8	50	49	49	96	34	4	10	80	8	8	DAY 04	34	30	24	62	05	7	10	3	0	8	LF	35	35	34	96	08	4	4	
13	10	6	6	8	47	46	46	96	28	3	10	100	10	10	DAY 05	35	31	25	59	03	5	10	2	0	0	8	LF	35	35	35	100	15	4	4
16	10	12	8	8	46	44	42	86	03	7	10	40	7	7	DAY 06	38	31	23	59	03	5	10	1	0	0	8	LF	37	37	37	100	15	3	3
19	10	20	10	8	45	43	41	86	02	10	10	40	10	10	DAY 07	38	32	27	73	02	4	10	1	0	4	LF	38	38	37	96	00	0	0	
22	10	120	10	8	40	36	30	68	04	9	10	28	7	7	DAY 08	32	31	30	92	08	5	10	1	0	4	RF	38	38	38	100	15	3	3	
01	10	3	1	8	38	38	38	100	04	4	10	50	8	8	DAY 09	36	33	29	76	04	6	10	20	6	8	H	37	35	32	82	18	5	5	
04	10	3	1	8	37	37	37	100	03	4	10	50	8	8	DAY 10	36	33	29	76	04	6	10	11	6	8	H	40	36	31	86	20	5	6	
07	10	7	8	8	37	36	35	92	35	7	10	40	8	8	DAY 11	33	30	26	75	03	6	10	11	9	8	H	40	39	37	86	20	5	6	
10	10	30	8	8	39	37	35	84	06	9	10	18	7	7	DAY 12	35	32	27	73	05	5	10	8	5	8	H	42	40	38	86	25	3	3	
13	10	13	8	8	39	37	34	82	02	4	10	35	7	7	DAY 13	39	35	28	65	14	3	10	9	5	8	H	43	41	38	83	00	0	0	
16	10	35	8	8	38	36	33	82	04	7	10	UNL	7	7	DAY 14	41	36	28	60	20	4	10	7	2	2	8	RWFH	43	42	40	89	15	4	4
19	10	60	10	8	37	34	30	78	03	7	10	UNL	7	7	DAY 15	41	36	28	65	14	3	10	9	5	8	H	43	41	38	83	00	0	0	
22	10	50	8	8	36	34	30	79	04	6	10	UNL	7	7	DAY 16	32	30	27	82	15	3	10	2	1	1	RFH	42	42	41	96	18	3	3	
01	10	1	1	8	43	43	42	96	10	3	10	UNL	10	10	DAY 17	32	31	29	89	00	0	10	30	10	10	RF	37	33	27	67	09	5	5	
04	10	2	2	8	43	43	42	96	17	3	10	120	10	10	DAY 18	32	31	29	89	00	0	10	22	5	8	RF	34	33	32	92	33	7	7	
07	10	2	2	8	43	43	42	96	14	3	10	120	10	10	DAY 19	32	30	27	82	06	6	10	4	2	2	RF	33	33	32	96	31	7	7	
10	10	1	1	8	44	43	43	96	36	4	10	UNL	10	10	DAY 20	35	31	24	64	10	7	10	4	1	8	F	39	39	38	96	20	6	6	
13	10	2	1	8	44	43	43	96	01	4	10	UNL	10	10	DAY 21	41	35	25	59	09	4	10	12	8	1	F	41	49	48	80	25	6	6	
16	4	UNL	7	8	48	45	41	77	03	5	10	120	10	10	DAY 22	41	35	25	59	09	4	10	100	8	8	F	53	51	49	84	25	9	9	
19	4	UNL	5	8	36	36	36	100	20	5	10	120	10	10	DAY 23	36	32	23	64	11	7	10	5	5	5	F	48	47	47	96	06	9	9	
22	6	120	7	8	37	35	32	82	29	5	10	100	10	10	DAY 24	35	31	23	62	12	7	10	23	7	7	F	45	42	39	80	10	7	7	
01	10	25	7	8	44	41	37	78	12	7	10	40	0	4	DAY 25	50	50	50	100	11	3	10	40	10	8	H	43	39	33	68	05	7	7	
04	10	25	7	8	43	40	37	79	12	5	10	25	5	5	DAY 26	57	56	56	96	20	6	10	40	8	8	H	40	36	31	70	05	6	6	
07	10	3	1	8	40	40	39	96	11	6	10	20	5	5	DAY 27	67	61	60	90	20	8	10	UNL	8	8	8	UNL	32	31	29	89	00	4	4
10	10	2	1	8	40	40	40	100	04	5	10	45	8	8	DAY 28	63	61	59	87	32	7	10	100	7	7	H	40	36	29	65	06	4	4	
13	10	2	1	8	40	40	39	96	36	6	10	80	8	8	DAY 29	70	63	58	66	22	10	9	50	8	8	GF	43	36	26	51	35	12	12	
16	10	3	1	8	44	43	43	96	18	3	10	35	8	8	DAY 30	70	62	56	61	24	10	2	UNL	12	12	12	H	41	32	14	33	35	15	15
19	10	3	1	8	44	43	43	96	18	3	10	35	8	8	DAY 31	64	59	55	73	33	10	0	UNL	12	12	12	H	31	29	12	45	36	12	12
22	10	5	1	8	48	47	47	96	23	3	10	100	10	10	DAY 32	47	44	40	77	03	11	0	UNL	12	12	12	H	26	22	11	53	36	5	5

NOTES  
CEILING COLUMN—  
UNL indicates an unlimited ceiling.

WEATHER COLUMN—  
\* Tornado  
T Thunderstorm  
Q Squall  
R Rain  
ZR Rain showers  
L Drizzle  
ZL Freezing drizzle  
S Snow  
SP Snow pellets  
IC Ice crystals  
SW Snow showers  
SG Snow grains  
IP Ice pellets  
A Hail  
F Fog  
GF Ground fog  
BD Blowing dust  
BN Blowing sand  
BS Blowing snow  
BY Blowing spray  
K Smoke  
H Haze  
D Dust

WIND COLUMNS—  
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.

ADDITIONAL DATA  
Other observational data contained in records on file can be furnished at cost via microfilm, microfiche, or paper copies of the original records. Inquiries as to availability and costs should be addressed to: Director, National Climatic Center, Federal Building, Asheville, North Carolina 28801.

STATION: RICHMOND VA YEAR & MONTH: 74 01

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