



# LOCAL CLIMATOLOGICAL DATA

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

RICHMOND, VIRGINIA  
NATIONAL WEATHER SERVICE DFC  
BYRD FIELD  
NOVEMBER 1973

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

WSB COPY

Date	Temperature °F							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		Avg. station pressure in. Elev. 177 feet m.s.l.	Wind				Sunshine		Sky cover Tenths		Date	
	Maximum	Minimum	Average	Departure from normal	Average dew point	Heating	Cooling			Water equivalent In.	Snow ice pellets In.		Resultant direction	Resultant speed m.p.h.	Average speed m.p.h.	Fastest mile	Hours and tenths	Percent of possible	Sunrise to sunset	Midnight to midnight		
1	68	48	58	4	40	7	0	1	0	0	0	29.52	25	11.2	12.2	26	SW	10.4	98	1	2	1
2	81	40	61	7	38	4	0	0	0	0	0	29.80	21	8.5	9.1	20	SW	10.6	100	1	1	2
3	74	48	61	8	42	4	0	0	0	0	0	29.83	34	2.3	7.8	14	NE	8.5	80	6	5	3
4	62	39	51	-2	33	14	0	0	0	0	0	29.98	01	4.3	5.5	12	NE	9.6	91	2	4	4
5	48	37	43	-10	41	22	0	1	8	.72	0	29.85	02	4.7	8.1	15	N	0.0	0	10	8	5
6	51	26	39	-13	23	26	0	0	0	0	0	29.99	28	8.4	8.9	17	W	10.1	96	2	2	6
7	54	22*	38	-14	20	27	0	0	0	0	0	30.08	24	1.2	2.9	8	NW	8.3	80	8	7	7
8	65	33	49	-3	34	16	0	1	8	.05	0	29.91	21	5.3	6.8	14	SW	5.9	57	9	9	8
9	56	31	44	-7	35	21	0	1	8	0	0	29.84	33	7.7	9.6	25	N	1.4	13	8	6	9
10	44	27	36	-15	19	29	0	0	0	0	0	30.20	34	9.1	9.9	20	NW	6.8	66	3	3	10
11	49	23	36*	-15	22	29	0	0	0	0	0	30.33	34	4.0	4.5	11	N	8.3	81	3	4	11
12	56	25	41	-9	26	24	0	1	8	0	0	30.18	16	3.7	4.3	7	S	7.6	74	6	6	12
13	70	31	51	1	32	14	0	0	0	0	0	29.99	19	5.6	5.9	10	SW	8.6	84	5	6	13
14	76	41	59	10	42	6	0	0	0	0	0	29.83	23	6.9	7.5	16	SW	6.9	68	6	6	14
15	79	45	62	13	49	3	0	0	0	0	0	29.67	22	10.1	10.5	20	SW	10.2	100	1	1	15
16	69	43	56	7	38	9	0	0	0	T	0	29.63	28	11.3	14.2	26	NW	8.7	86	1	3	16
17	52	26	39	-9	24	26	0	0	0	0	0	30.07	36	3.1	5.5	12	N	10.1	100	3	1	17
18	65	25	45	-3	25	20	0	0	0	T	0	29.96	19	5.3	5.8	16	SW	6.3	62	7	6	18
19	70	43	57	10	41	8	0	0	0	0	0	29.85	32	4.8	7.6	13	N	7.7	76	4	5	19
20	56	41	49	2	40	16	0	0	8	0	0	30.14	08	5.0	6.3	8	E	1.2	12	10	9	20
21	70	37	54	7	44	11	0	1	8	.01	0	30.08	12	5.9	7.3	25	NW	2.1	21	8	7	21
22	68	41	55	8	48	10	0	1	8	0	0	30.04	28	3.5	5.2	8	NW	5.3	53	8	7	22
23	71	34	53	7	42	12	0	1	8	0	0	30.02	18	3.4	4.2	8	SW	6.3	63	6	5	23
24	72	50	61	15	49	4	0	0	8	0	T	29.83	19	7.6	8.1	15	SW	1.1	11	10	8	24
25	80	61	71*	26	56	0	0	0	0	0	0	29.57	23	13.1	13.7	31	SW	4.8	48	9	5	25
26	66	44	55	10	47	10	0	0	0	0	0	29.90	08	4.3	6.6	10	E	6.3	64	5	5	26
27	82*	34	68	24	57	0	0	1	8	.01	0	29.80	20	5.8	6.6	18	SW	6.0	61	7	9	27
28	75	34	65	21	57	0	0	0	0	.34	0	29.47	22	10.7	13.4	32	SW	0.0	0	10	8	28
29	55	27	41	-3	25	24	0	0	0	0	0	29.81	31	12.7	12.8	19	NW	7.8	80	4	2	29
30	68	25	47	4	27	18	0	0	0	0	0	30.03	23	9.6	10.1	20	SW	9.8	100	0	1	30

Sum	Sum	Total		Total		Total		For the month:		Total	%	Sum	Sum	
1952	1121	414	9	Number of days	1.27	0	29.91	25	3.1	8.0	32	SW	196.7	
Avg.	Avg.	Avg.	Dep.	Avg.	Dep.	Dep.	Precipitation	Dep.				Date: 28	Possible month	
65.1	37.4	51.3	2.8	37	-6.6		≤ .01 inch	6	-1.77				305.3	
Number of days		Season to date		Snow, ice pellets		Greatest in 24 hours and dates		Greatest depth on ground of snow, ice pellets or ice and date						
Maximum Temp.	Minimum Temp.	58.2	154.2	Thunderstorms	0	Precipitation	Snow, ice pellets							
≤ 90° F	≥ 32°	≥ 32°	≥ 0°	Heavy fog	X	0	0							
0	0	11	0	-12.2	Clear	10	Partly cloudy	10	Cloudy	10				

### 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																								
2																								
3																								
4																								
5																								
6				.01	.03	.02	.01	.09	.28	.23	.02	.02	.01	T										
7																								
8																								
9	.08	.04	.01	.01	T																.01	.04		
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24																								
25																								
26																								
27																								
28				T	.01																			
29																								
30																								

\* Extreme temperatures for the month. May be the last of more than one occurrence.  
- Below zero temperature or negative departure from normal.  
‡ V 70° at Alaskan stations.  
+ Also on an earlier date, or dates.  
X 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 75c extra. Single copy: 20c for monthly issue; 15c 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

Hour	Local time	Sky cover Tenths	Station pressure in.	Temperature				Relative humidity %	Wind speed m.p.h.	Resultant wind	
				Air °F	Wet bulb °F	Dew Pt. °F	Direction			Speed m.p.h.	
											Temperature
01	5	29	90	47	43	38	72	6.5	24	2.1	
04	4	29	95	44	41	37	79	6.1	22	2.6	
07	4	29	93	42	40	36	80	6.1	25	2.7	
10	5	29	95	55	47	37	83	10.1	27	4.4	
13	6	29	89	62	50	37	42	12.0	26	5.0	
16	7	29	87	61	50	37	42	9.9	25	4.3	
19	6	29	90	52	45	37	59	6.9	23	2.4	
22	5	29	92	49	43	37	66	6.6	24	2.5	

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 Totals	CEILING Hkts. of ft.	VISI- BILITY MILES	WEATHER	TEMPERATURE				WIND DIR.	WIND SPEED Knots	SKY COVER Totals	CEILING Hkts. of ft.	VISI- BILITY MILES	WEATHER	TEMPERATURE				WIND DIR.	WIND SPEED Knots	SKY COVER Totals	CEILING Hkts. of ft.	VISI- BILITY MILES	WEATHER	TEMPERATURE				WIND DIR.	WIND SPEED Knots	
					AIR °F	NET BULB °F	DEW PT. °F	REL. HUM. %							AIR °F	NET BULB °F	DEW PT. °F	REL. HUM. %							AIR °F	NET BULB °F	DEW PT. °F	REL. HUM. %			AIR °F
01	10	40	3	DAY 01 GF	52	51	51	96	21	6	0	UNL	12	DAY 02	44	40	36	74	17	4	0	UNL	12	DAY 03	61	51	40	46	23	12	
04	8	15	0		52	47	42	69	27	6	0	UNL	12		45	41	37	74	20	6	0	UNL	12		56	48	40	55	22	6	
07	0	UNL	12		53	47	42	69	27	11	7	0	UNL	12		42	40	37	83	21	3	3	UNL	8		53	48	42	66	23	6
10	0	UNL	12		55	49	39	48	24	17	0	UNL	12		63	52	47	46	25	10	8	80	12		67	55	45	45	36	7	
13	0	UNL	12		64	57	37	37	27	20	3	0	UNL	12		80	59	40	48	23	10	6	UNL	12		72	58	47	41	36	8
16	1	UNL	12		65	49	32	29	26	12	2	UNL	12		76	56	36	23	21	13	10	UNL	12		71	58	48	44	05	6	
19	0	UNL	12		50	44	32	43	23	5	0	UNL	10		66	52	38	36	20	8	10	30	10		59	49	38	46	03	7	
22	0	UNL	12		54	42	33	52	22	6	0	UNL	10		64	51	39	40	22	9	1	UNL	10		51	44	35	54	02	5	

NOTES

CEILING COLUMN—  
UNL indicates an unlimited ceiling.

WEATHER COLUMN—

- T Tornado
- TS Thunderstorm
- Q Squall
- R Rain
- RO Rain showers
- ZR Freezing rain
- 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
- 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 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: 73 11

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