



LOCAL CLIMATOLOGICAL DATA

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

RICHMOND, VIRGINIA
BYRD FIELD
OCTOBER 1971

Latitude 37° 36' N Longitude 77° 20' W Elevation (ground) 164 ft. Standard time used: EASTERN WBAN #13740

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. feet m.s.l.	Wind				Sunshine		Sky cover Tenths		Date												
	Maximum	Minimum	Average	Departure from normal	Average dew point	Degree days Base 65°				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											
						Heating	Cooling									Speed	Direction																
1	75	69	72	7	72	0	7	1	0	1.08	0	29.70	07	12.7	13.8	17	E	0.0	0	10	10	1											
2	73	68	71	7	70	0	6	1	0	.30	0	29.63	08	3.4	8.8	12	SE	0.0	0	10	10	2											
3	80	68	74*	10	68	0	9	1	0	.02	0	29.73	01	9.3	9.9	15	N	1.3	11	9	8	3											
4	73	61	67	4	64	0	2	1	8	0	0	29.90	05	5.9	6.9	9	NE	2.1	18	10	7	4											
5	83*	60	72	9	66	0	0	1	3	1.02	0	29.83	22	4.0	5.8	11	NW	4.5	38	8	8	5											
6	79	53	66	4	61	0	7	1	0	.04	0	29.67	24	6.6	7.3	17	W	9.8	84	3	4	6											
7	71	46	59	-3	48	6	0	0	0	0	0	29.74	31	6.2	8.1	18	NW	10.0	86	2	1	7											
8	67	41	54	-7	45	11	0	0	0	0	0	30.00	07	7.4	4.2	9	S	11.0	96	1	2	8											
9	71	48	60	-1	54	5	0	1	0	.24	0	29.92	16	2.7	3.0	8	S	2.4	21	10	10	9											
10	64	53	59	-2	58	6	0	0	1	1.52	0	29.52	33	4.7	7.1	12	NW	0.0	0	10	10	10											
11	67	41*	54*	-6	46	11	0	0	0	0	0	29.67	22	8.9	9.4	17	SW	11.4	100	0	0	11											
12	73	45	59	-1	49	6	0	1	8	0	0	29.85	18	2.4	5.5	8	SW	11.4	100	1	1	12											
13	77	46	62	2	54	3	0	1	8	0	0	29.95	15	4.8	5.9	14	SE	8.4	74	6	6	13											
14	80	54	67	8	59	0	2	1	8	0	0	29.86	19	2.4	4.6	11	NW	10.4	92	3	3	14											
15	80	52	66	7	57	0	1	2	8	0	0	29.94	01	1.8	2.6	6	NW	8.7	77	1	2	15											
16	69	55	62	3	60	3	0	2	8	0	0	29.98	02	2.2	3.0	7	SW	0.0	0	10	10	16											
17	70	57	64	6	60	1	0	2	8	0	0	30.08	03	6.6	7.3	13	NE	2.3	20	7	8	17											
18	61	53	57	-1	53	8	0	1	8	0	0	30.09	01	9.0	9.2	15	N	0.0	0	10	8	18											
19	64	52	58	0	55	7	0	1	8	.06	0	30.07	02	9.0	9.6	19	NE	0.1	0	10	10	19											
20	67	60	64	7	60	1	0	1	8	.03	0	30.23	04	9.9	10.1	13	NE	0.0	0	10	10	20											
21	70	58	64	7	59	1	0	1	8	0	0	30.24	05	8.1	8.5	12	NE	1.5	13	9	10	21											
22	72	62	67	10	63	0	2	1	8	.13	0	30.00	07	7.6	7.6	11	E	0.3	2	10	10	22											
23	66	63	65	9	64	0	0	1	8	3.18	0	29.73	07	11.9	12.1	23	NE	0.0	0	10	10	23											
24	76	64	70	14	65	0	9	1	3	.03	0	29.70	16	2.6	5.9	10	SW	1.0	9	9	9	24											
25	77	64	72	17	68	0	0	0	0	1.51	0	29.64	07	3.3	5.6	11	SE	0.5	9	10	10	25											
26	67	63	65	10	62	0	0	1	8	.14	0	29.68	36	7.6	7.9	14	N	0.4	4	10	10	26											
27	70	59	65	10	61	0	0	0	1	0	0	29.83	01	3.8	4.2	6	N	0.3	3	10	8	27											
28	78	56	67	13	62	0	2	2	8	0	0	30.01	01	1.8	2.7	7	NE	4.6	42	7	6	28											
29	72	59	66	12	63	0	1	2	8	0	0	30.10	01	4.4	4.8	7	NE	1.8	16	8	9	29											
30	71	65	68	14	67	0	3	2	8	.04	0	30.03	03	3.5	3.9	6	E	0.0	0	10	10	30											
31	75	68	72	18	68	0	7	2	8	.03	0	30.04	12	4.6	5.0	9	SE	0.2	2	10	10	31											
Sum		Sum		Total		Total		Number of days		Total		Total		For the month:				Total		% for		Sum		Sum									
2238		1765		69		62		Precipitation		9.39		0		29.88		04		2.7		6.8		23		NE		104.4		for		234		230	
Avg.		Avg.		Avg.		Avg.		Dep.		Dep.		Dep.		Date:		Date:		Possible		month		Avg.		Avg.									
72.2		56.9		64.6		5.9		60		-145		16		6.39						348.0		30		7.3		7.4							
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.				Total				Precipitation				Snow, ice pellets																	
≥ 90°				≤ 32°				80				1318				Thunderstorms 2				0													
0				0				-170				Heavy fog X 7				3.28 22-23				0													
												Clear 7				Partly cloudy 3				Cloudy 21													

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	.09	.03	.03	.16	.11	.04	.04	T	.03	.17	.07	.08	.10	.06	.05	T	T	.01	.01	.01	T	T	T	T	1
2	.08	T	.03	.02	T	.01	.03	T	.07	.01	.01	.01	T	T	T	T	T	.01	.01	.01	T	T	T	T	2
3	T	.01	T	.01	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	3
4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	4
5	T	T	.01	T	.03	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	5
6	T	T	T	T	.03	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	6
7	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	7
8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	8
9	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	9
10	.12	.01	T	.03	.20	.40	.27	.12	.04	.03	.07	.11	.06	.01	.01	T	T	T	.01	.03	T	.10	.04	.06	10
11	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	11
12	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	12
13	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	13
14	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	14
15	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	15
16	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	16
17	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	17
18	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	18
19	T	.01	.01	.01	T	T	T	T	T	T	T	T	T	T	T	T	T	T	.02	.04	T	T	T	T	19
20	T	.01	.01	.01	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	20
21	T	.01	.01	.01	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	21
22	T	.01	.01	.01	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	22
23	.07	.07	.04	.11	.19	.15	.17	.14	.16	.19	.20	.24	.08	.05	.15	.20	.37	.16	T	.37	.01	.04	.01	.03	23
24	.01	.01	.01	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	24
25	T	.01	.01	T	.09	.01	.02	.01	T	.49	T	T	T	T	T	T	T	T	T	T	T	T	T	T	25
26	T	.06	.05	T	.02	T	.01	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	26
27	T	.06	.05	T	.02	T	.01	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	27
28	T	.06	.05	T	.02	T	.01	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	28
29	T	.06	.05	T	.02	T	.01	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	29
30	T	.06	.05	T	.02	T	.01	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	30
31	T	.06	.05	T	.02	T	.01	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	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.

+ Also on an earlier date, or dates.

X Heavy fog restricts visibility to ¼ 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 \$1.00 per year including annual summary if published. Single copy: 10 cents for monthly summary; 15 cents for annual summary. Checks or money orders should be made payable and remittances and correspondence should be sent to the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402.

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 time	AVERAGES									
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OBSERVATIONS AT 3-HOUR INTERVALS

Table with columns for HOUR, SKY COVER, TEMPERATURE, WIND, WEATHER, and various meteorological data points across 31 days.

NOTES

CEILING COLUMN—

UNL indicates an unlimited ceiling.

WEATHER COLUMN—

- List of weather codes: Tornado, Thunderstorm, Squall, Rain, Rain showers, Freezing rain, Drizzle, Freezing drizzle, Snow, Snow pellets, Ice crystals, Snow showers, Snow grains, Ice pellets, Fog, Fog, Ice fog, Ground fog, Blowing dust, Blowing sand, Blowing snow, Blowing spray, Smoke, Haze, 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: 71 10

U.S. DEPARTMENT OF COMMERCE NATIONAL CLIMATIC CENTER FEDERAL BUILDING ASHEVILLE, N.C. 28801



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