



# LOCAL CLIMATOLOGICAL DATA

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

RICHMOND, VIRGINIA  
NATIONAL WEATHER SERVICE OFC  
BYRD FIELD  
NOVEMBER 1972

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

Date	Temperature °F							Weather types on dates of occurrence	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	Degree days Base 65°				Water equivalent In.	Snow-ice pellets In.		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	2	3	4	5	6	7A	7B	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22							
1	55	50	53	-1	51	12	0	1	0	.30	0	30.08	13	4.8	5.2	7	SE	0.0	0	10	10	1							
2	77	52	65	11	57	0	0	2	8	0	0	29.86	19	7.3	7.9	18	SW	4.5	43	6	6	2							
3	80*	63	72*	19	57	0	0	0	0	.01	0	29.73	24	6.1	8.9	16	SW	3.8	36	9	9	3							
4	63	54	59	6	52	6	0	1	0	.22	0	29.79	02	5.1	5.6	14	NE	0.0	0	9	9	4							
5	62	44	53	0	38	12	0	0	0	0	0	30.02	01	7.3	7.5	16	N	8.8	84	3	3	5							
6	59	36	48	-4	35	17	0	0	0	0	0	30.25	04	3.4	5.2	9	NE	10.5	100	0	0	6							
7	68	35	52	0	46	13	0	0	0	0	0	30.00	16	2.4	4.0	14	SE	3.2	50	5	6	7							
8	65	51	58	6	48	7	0	1	0	1.68	0	29.48	28	4.8	9.2	26	NW	3.3	32	7	7	8							
9	64	45	55	4	38	10	0	0	0	0	0	29.77	34	10.1	11.5	20	N	10.4	100	0	0	9							
10	59	37	48	-3	38	17	0	8	0	0	0	29.89	33	5.5	5.2	8	N	10.0	97	6	4	10							
11	69	45	57	6	47	8	0	2	8	0	0	29.78	01	1.8	4.8	14	N	5.6	54	7	6	11							
12	61	40	51	1	39	14	0	0	0	0	0	30.03	02	3.9	4.8	12	NE	9.9	96	4	2	12							
13	63	35	49	-1	43	16	0	2	8	.03	0	29.96	16	4.4	5.3	11	SE	6.8	67	8	7	13							
14	75	56	66	17	59	0	1	1	0	.48	0	29.40	24	5.0	8.8	24	SW	4.5	44	8	8	14							
15	56	33	45	-4	30	20	0	0	0	0	0	29.72	35	10.2	11.2	23	N	9.1	89	3	2	15							
16	42	27	35	-14	25	30	0	0	0	0	0	30.00	03	3.6	6.3	16	NE	5.1	50	9	7	16							
17	43	34	39	-19	33	28	0	0	8	.05	0	29.83	35	7.8	8.3	13	N	0.0	0	10	8	17							
18	52	28	40	-8	30	25	0	0	8	0	0	30.03	02	2.2	3.3	12	NE	8.5	84	5	5	18							
19	46	41	44	-3	41	21	0	1	8	1.38	0	29.95	04	4.1	5.6	15	NW	0.0	0	10	10	19							
20	55	36	46	-1	38	19	0	1	0	.08	0	29.72	35	5.0	7.9	18	N	2.5	25	7	7	20							
21	48	29	39	-18	26	26	0	0	0	0	0	30.00	36	5.3	6.3	14	N	6.7	67	4	5	21							
22	39	32	36	-11	30	29	0	1	8	.05	.6	29.92	04	1.8	2.5	10	NE	0.0	0	9	9	22							
23	42	26	34*	-12	25	31	0	0	0	0	0	30.03	34	3.3	4.6	8	NW	6.3	63	4	2	23							
24	49	20*	35	-11	23	30	0	0	0	0	0	30.00	21	3.7	3.9	10	SW	9.9	100	1	1	24							
25	54	25	40	-5	32	25	0	1	8	.70	0	29.76	15	3.9	5.0	16	SE	0.4	4	10	7	25							
26	61	39	50	5	44	15	0	1	0	.14	0	29.20	23	10.0	12.2	35	SE	5.5	56	5	6	26							
27	57	35	46	2	29	19	0	0	0	0	0	29.73	22	9.5	9.9	20	SW	9.8	99	0	0	27							
28	64	40	52	8	36	13	0	0	0	0	0	29.93	21	5.4	10.1	17	SW	7.2	73	7	6	28							
29	49	34	42	-2	24	23	0	0	0	0	0	30.21	03	7.2	7.5	14	NE	5.9	60	6	6	29							
30	38	34	36	-7	33	29	0	1	0	.70	0	29.85	01	6.8	8.2	14	NW	0.0	0	10	10	30							
Sum	Sum				Total	Total				Total	Total	For the month:					Total	%	Sum	Sum									
1715	1196				515	8				5.82	.6	29.86	34	1.4	6.9	35	SE	160.2		182	170								
Avg.	Avg.	Avg.	Dep.	Avg.	Dep.	Dep.				Precipitation	Dep.							Date: 26	Possible month	Avg.	Avg.								
57.2	38.3	47.9	-0.6	38	18					2.78								303.3	52	6.1	5.7								
Season to date							Snow, ice pellets > 1.0 inch		Thunderstorms		Heavy fog X		Greatest in 24 hours and dates					Greatest depth on ground of snow, ice pellets or ice and date											
Number of days							Total		Total		Precipitation		Snow, ice pellets		Clear 6					Partly cloudy 13					Cloudy 11				
Maximum Temp.							Minimum Temp.		815		1171		0		0					23+									
≥ 90° F							≥ 32°		≥ 32°		≥ 0°		Dep.		Dep.		0					7							

### 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					.04	.11	.07	.01	.01	T							.02	.01	.03	T				1	
2																								2	
3	.01	T	T																	T				3	
4		T	.05	.14	.02	T	T	.01	T													T	T	4	
5																								5	
6																								6	
7																								7	
8	T	.20	.77	.29	.14	.23	.03	T	.01	T	T	.01												8	
9																								9	
10																								10	
11																								11	
12																								12	
13																					T	.01	.02	13	
14	T				.04	.21	.18	.03	.02					T	T								14		
15																								15	
16			.01	.02	T	.01	.01			T	T													16	
17																								17	
18																								18	
19								T	.01	T	.01	.01	.01	.07	.06	.03	.08	.02	.07	.09	.12	.10	.03	19	
20	.07	.01																						20	
21																								21	
22								T	T	.01	.01	.01	.01	T							.01	T		22	
23																								23	
24																								24	
25															.02	.04	.06	.08	.09	.02	.07	.20	.12	25	
26	.03	.07	T	.01	T													T	.03	T				26	
27																								27	
28																				T	T			28	
29																								29	
30								T	T	.04	.08	.05	.04	.05	.03	.01	.05	.02	.08	.06	.16	.02	.01	30	

\* 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.  
 † Heavy fog restricts visibility to 1/4 mile or less.  
 X 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. 18 are the 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; 75c extra for foreign mailing. Single copy: 20c for monthly issue; 15c for annual issue. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

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	Station pressure	AVERAGES				Resultant wind	
				Temperature			Wind speed m.p.h.	Direction	
In.	Air °F	Wet bulb °F	Dew Pt. °F	Relative humidity %	Speed m.p.h.				
01	5	29.87	44	41	38	79	5.8	09	.7
04	5	29.86	43	40	37	82	5.6	35	1.4
07	7	29.88	41	40	37	87	6.0	31	2.0
10	6	29.90	49	44	39	72	8.4	34	2.7
13	6	29.85	55	47	39	58	8.7	31	2.4
16	6	29.83	55	47	38	57	7.7	32	1.2
19	6	29.85	48	44	39	74	6.2	04	1.4
22	6	29.86	46	42	38	76	6.8	35	1.5

OBSERVATIONS AT 3-HOUR INTERVALS

Table with columns for HOUR, SKY COVER, CEILING, WIND, TEMPERATURE, REL. HUM., and WEATHER. It is organized into 30 daily sections (DAY 01 to DAY 30) with 3-hour intervals for each day.

NOTES
CEILING COLUMN--
UNL indicates an unlimited ceiling.
WEATHER COLUMN--

Tornado
Thunderstorm
Squall
Rain
Rain showers
Freezing rain
Drizzle
Freezing drizzle
Snow
Snow pellets
Ice crystals
Snow showers
Snow grains
Ice pellets
Hail
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: 72 11

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