



# LOCAL CLIMATOLOGICAL DATA

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

RICHMOND, VIRGINIA  
NATIONAL WEATHER SERVICE OFC  
BYRD FIELD  
JANUARY 1973

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 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	Resulant 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															Direction	Speed m.p.h.	Direction	Hours and tenths	Percent of possible	Sunrise to sunset
1	72*	53	63*	24	6	1	2	0	0	0	29.88	23	6.8	8.1	12	SW	4.0	42	6	8	1						
2	53	30	42	3	28	23	0	0	0	0	30.08	01	3.6	6.8	13	N	2.4	25	9	8	2						
3	40	26	33	-6	28	23	0	1	8	0	30.28	08	3.1	5.9	9	E	0.0	0	10	8	3						
4	60	37	49	10	41	16	0	1	8	0	29.79	26	6.0	8.1	17	SW	4.9	51	7	8	4						
5	49	37	43	4	38	22	0	0	0	0	29.83	29	1.6	3.5	9	W	0.1	1	10	10	5						
6	41	26	34	-5	25	31	0	1	0	0	29.96	01	6.1	6.6	16	N	2.4	25	10	9	6						
7	29	22	26	-13	5	39	0	0	0	0	30.23	36	12.1	12.2	20	N	1.4	14	10	8	7						
8	24	18	21	-18	11	44	0	0	0	0	30.16	03	9.9	10.2	14	N	0.0	0	10	10	8						
9	30	9	20*	-19	8	45	0	0	0	0	30.10	35	4.8	3.8	15	N	9.8	100	0	10	9						
10	34	5*	20*	-19	11	45	0	0	0	0	30.10	20	3.1	4.3	8	NW	7.6	78	7	6	10						
11	38	11	25	-14	12	40	0	1	8	0	29.86	29	1.9	3.9	12	N	7.2	73	1	3	11						
12	32	12	22	-17	9	43	0	0	0	0	30.05	33	6.8	7.5	14	N	9.8	100	0	10	12						
13	36	11	24	-15	13	41	0	0	0	0	30.18	04	4.5	6.0	9	N	5.4	55	6	6	13						
14	46	11	29	-10	16	36	0	0	8	0	29.99	21	6.8	7.2	14	SW	8.6	87	6	5	14						
15	46	35	41	2	31	24	0	1	8	0	29.82	22	3.5	6.9	14	N	1.9	19	9	9	15						
16	34	24	39	0	28	26	0	1	8	0	30.15	22	4.6	6.0	9	SW	9.9	100	6	3	16						
17	66	27	47	8	30	18	0	0	8	0	30.09	19	5.5	6.0	9	SW	8.6	87	6	4	17						
18	68	30	49	10	35	16	0	0	0	0	30.02	19	7.0	7.3	15	SW	6.6	67	9	7	18						
19	65	48	57	18	50	8	0	0	0	0	29.60	21	6.9	9.8	23	SW	2.4	24	10	7	19						
20	53	33	43	4	31	22	0	0	0	0	29.67	33	7.0	8.5	15	N	9.7	97	1	1	20						
21	48	24	36	-3	19	29	0	0	0	0	30.05	06	5.6	7.9	11	E	7.8	78	7	7	21						
22	66	38	52	13	50	13	0	1	0	0	29.66	16	10.3	11.8	23	SE	0.1	1	10	8	22						
23	63	38	51	12	35	14	0	0	0	0	29.61	26	9.1	10.2	21	SW	9.6	95	2	1	23						
24	51	29	40	1	23	25	0	0	0	0	29.78	32	6.0	6.6	16	NW	9.2	91	3	2	24						
25	58	20	39	0	23	26	0	0	0	0	29.96	22	4.2	3.8	12	SW	10.1	100	0	1	25						
26	63	29	46	7	30	19	0	0	0	0	29.93	16	4.2	5.2	11	SW	7.7	79	8	6	26						
27	52	35	44	5	42	21	0	1	8	0	29.70	34	1.9	3.9	12	NW	1.8	18	8	6	27						
28	50	32	41	2	41	24	0	2	8	0	29.58	12	2.4	3.7	10	SE	0.1	1	10	9	28						
29	47	24	36	-3	26	29	0	1	0	0	29.53	33	9.7	12.4	25	NW	8.3	81	5	4	29						
30	38	12	25	-14	9	40	0	0	0	0	30.02	22	2.3	6.8	15	S	9.5	92	6	3	30						
31	49	21	35	-4	19	30	0	1	8	0	30.20	12	6.1	6.8	15	E	9.5	92	6	6	31						
Sum	Sum	Sum	Sum	Sum	Total	Total				Total	Total	For the month:					Total	% for	Sum	Sum							
1521	807				843	0			Number of days	2.66	4.3	29.93	30	1.0	25	NW	176.4	198	175								
Avg.	Avg.	Avg.	Dep.	Avg.	Dep.	Dep.			Precipitation	Dep.					Date: 29		Possible month	Avg.	Avg.								
49.1	26.0	37.6	-1.1	26	28				≤ .01 inch	11	-0.80						307.3	57	6.4	3.6							
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.										Total Total		≤ 1.0 inch		Thunderstorms		Precipitation		Snow, ice pellets									
≥ 90° †										≥ 32°		≤ 0°		2246		0		.82 28-29		3.9							
0										4		22		0		-98		Clear 7		Partly cloudy 11		Cloudy 13					

### 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																									1		
2																									2		
3																									3		
4	.01	.02	.18	T	T																				4		
5																									5		
6		T	.01	.01	.01	.01	T																		6		
7								T	.02	.01	.01	.03	.05	.04	.07	.03	.03	.02	.02	.01	.02	.01	.01	T	T	7	
8																										8	
9	T																									9	
10																										10	
11																										11	
12																										12	
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21																										21	
22																										22	
23																										23	
24																										24	
25																										25	
26																										26	
27	T	.05	.06	.02	T	.04	.22	.07	.06	.01	T													.01	.02	27	
28																										28	
29	.07	T	T	T																					.09	.04	29
30																										30	
31																										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. 18 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; 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. Hoggard*  
Director, National Climatic Center

### SUMMARY BY HOURS

Hour Local time	Sky cover	Station pressure	Temperature				Relative humidity %	Wind speed m.p.h.	Resultant wind	
			Air °F	Wet bulb °F	Dew Pt. °F	Direction			Speed m.p.h.	
01	5	29.92	34	32	26	74	5.8	32	1.2	
04	5	29.92	32	30	26	79	6.1	31	.6	
07	5	29.92	31	29	26	83	6.3	28	1.2	
10	7	29.98	39	35	27	63	5.5	33	1.6	
13	7	29.91	46	38	26	48	9.0	28	2.2	
16	6	29.90	47	39	25	47	8.8	28	1.7	
19	6	29.93	39	34	27	65	6.5	15	.2	
22	5	29.94	35	32	26	70	6.6	36	.8	

OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	TEMPERATURE				WIND	VISIBILITY	TEMPERATURE				WIND	VISIBILITY															
	AIR °F	NET MET °F	DEW PT °F	REL. HUM. %			AIR °F	NET MET °F	DEW PT °F	REL. HUM. %																	
01	64	63	62	93	20	9	10	250	10	DAY 02	50	43	35	57	33	6	0	UNL	12	DAY 03	30	28	24	78	04	3	
04	64	62	60	87	19	7	10	100	12		40	42	38	74	34	4	0	UNL	12		27	26	24	88	03	3	
07	63	61	59	87	22	5	10	100	12		45	37	26	47	03	6	10	0	UNL	12		31	25	23	78	01	3
10	63	61	60	90	23	6	10	100	12		46	38	25	44	36	10	10	0	UNL	12		36	32	28	73	10	3
13	70	62	57	64	24	6	9	250	12		47	38	24	41	01	6	10	0	UNL	12		38	32	28	62	09	3
16	UNL	UNL	UNL	UNL	UNL	9	9	250	12		50	38	23	35	02	6	10	0	UNL	12		40	32	25	57	11	7
19	UNL	UNL	UNL	UNL	UNL	6	5	UNL	12		42	34	24	33	04	3	10	0	UNL	12		36	32	28	89	08	7
22	UNL	UNL	UNL	UNL	UNL	6	6	UNL	12		32	30	26	29	14	3	10	0	UNL	12		30	30	30	100	07	6

NOTES

CEILING COLUMN—

UNL indicates an unlimited ceiling.

WEATHER COLUMN—

- T Tornado
- Q Thunderstorm
- S Squall
- R Rain
- RW 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 01

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