



# LOCAL CLIMATOLOGICAL DATA

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

RICHMOND, VIRGINIA  
NATIONAL WEATHER SERVICE OFC  
BYRD FIELD  
JULY 1973

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 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	Heating	Cooling			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	88	67	78	0	69	0	13	1	3	8	0	0	29.82	12	3.7	5.8	16	E	10.1	69	8	8	1
2	86	69	78	0	70	0	13	1	3	8	0	0	29.90	16	5.1	5.6	9	S	7.7	52	8	8	2
3	91	72	82	4	72	0	17	1	3	8	0	0	29.86	18	7.0	7.2	25	SW	11.2	76	9	8	3
4	93	71	82	4	72	0	17	1	3	8	0	0	29.70	21	2.9	5.6	9	SW	12.0	82	7	7	4
5	87	70	79	1	69	0	14	1	3	8	0	0	29.62	35	3.5	7.9	11	N	12.9	88	8	7	5
6	88	65	77	-1	62	0	12	1	3	8	0	0	29.79	01	5.7	7.1	11	N	11.5	78	7	6	6
7	88	63	76	-2	63	0	11	1	3	8	0	0	29.90	16	1.4	3.9	6	S	14.0	96	3	2	7
8	93	67	80	2	69	0	15	1	3	8	0	0	29.88	18	4.5	5.3	8	SW	13.5	92	2	2	8
9	93	71	82	4	71	0	17	1	3	8	0	0	29.79	09	7	4.5	6	S	10.2	70	5	3	9
10	93	72	83	5	72	0	18	1	3	8	0	0	29.66	19	5.6	6.5	26	NW	9.0	62	7	7	10
11	84	68	76	-3	70	0	11	1	3	8	0	0	29.60	24	2.1	4.5	42	NW	6.7	46	9	8	11
12	79	57*	68*	-11	56	0	3	1	3	8	0	0	29.80	01	6.7	8.6	13	NW	14.6	100	5	3	12
13	89	58	74	-5	60	0	9	1	3	8	0	0	29.82	21	7.8	9.1	14	SW	14.3	98	3	2	13
14	93	70	82	3	71	0	17	1	3	8	0	0	29.75	22	8.5	8.6	16	SW	14.5	100	1	1	14
15	85	72	79	0	73	0	14	1	3	8	0	0	29.68	20	3.9	8.5	17	NE	7.5	52	10	10	15
16	83	71	77	-2	70	0	12	1	3	8	0	0	29.78	04	5.2	7.3	11	NE	10.2	70	9	9	16
17	81	66	74	-5	67	0	9	1	3	8	0	0	29.94	09	3.3	5.2	8	E	9.6	66	8	7	17
18	83	61	72	-7	64	0	7	1	3	8	0	0	30.01	16	3.0	4.2	7	S	14.2	98	1	1	18
19	87	64	76	-2	67	0	11	1	3	8	0	0	29.98	20	5.4	6.2	9	SW	12.9	90	3	4	19
20	89	72	81	3	68	0	16	1	3	8	0	0	29.86	21	9.3	9.6	15	SW	10.3	12	6	7	20
21	93*	72	83*	5	72	0	18	1	3	8	0	0	29.74	23	9.1	9.6	25	NW	11.0	76	8	8	21
22	84	71	78	0	74	0	17	1	3	8	0	0	29.84	04	4.4	6.6	11	W	5.1	35	10	10	22
23	77	66	72	-6	70	0	7	1	3	8	0	0	30.06	06	5.3	5.9	10	NE	3.1	22	10	9	23
24	85	62	74	-4	64	0	9	1	3	8	0	0	30.10	11	3.2	5.8	10	E	14.0	98	6	6	24
25	82	59	71	-7	64	0	6	1	3	8	0	0	29.96	16	3.6	5.8	10	SE	13.8	97	7	5	25
26	87	67	77	-1	68	0	12	1	3	8	0	0	29.82	21	9.9	10.4	17	SW	13.3	93	6	6	26
27	92	72	82	4	73	0	17	1	3	8	0	0	29.74	20	7.0	7.5	13	SE	9.6	68	8	8	27
28	88	69	79	1	74	0	14	1	3	8	0	0	29.76	19	6.6	6.9	19	SE	6.7	47	10	6	28
29	90	68	79	1	70	0	14	1	3	8	0	0	29.76	04	2.4	7.1	7	SW	9.8	69	3	3	29
30	88	66	77	-1	69	0	12	1	3	8	0	0	29.84	07	3.8	6.0	9	SE	11.9	84	3	3	30
31	89	67	78	0	72	0	13	1	3	8	0	0	29.83	16	5.1	5.8	17	SE	8.7	62	7	7	31

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Sum	Sum	Total	Total	Total	Total	Total	Total	For the month:	Total	%	Sum	Sum						
2708	2085	0	391	0	391	0	3.64	0	29.83	18	2.3	6.7	42	NW	333.9	for	199	186
Avg.	Avg.	Avg.	Dep.	Avg.	Dep.	Dep.	Precipitation	Dep.	Date:	11	Possible	month	Avg.	Avg.				
87.4	67.3	77.4	-0.7	68	0	0	0.11	-1.97			448.3	74	6.4	6.0				

### 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	T				.17																				
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11	.08	T	.01	T	T	T	.01	T	T									.72	T			.14	.50	10	
12																									
13																									
14																									
15									.04	.06	.01									T	.04	.24	.17	.01	15
16																									
17					.05	.02	T	.03	T	T	T														
18																									
19																									
20																									
21																					.15	.10	.16	.09	21
22	.09	.21	.05	.06																					
23																									
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25																									
26																									
27																									
28																									
29																									
30																									
31																					.33	.08	.01	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.  
Heavy fog restricts visibility to ¼ mile or less.  
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 in tens of degrees from true North; i.e., 08 = 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, 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

### SUMMARY BY HOURS

Hour	Local time	Sky cover Tenths	Temperature							Resultant wind		
			Station pressure in.	Air °F	Wet bulb °F	Dew Pt. °F	Relative humidity %	Wind speed m.p.h.	Direction	Speed m.p.h.		
01	5	29.83	71	69	68	90	5.8	19	2.4			
04	5	29.82	69	68	67	92	5.3	19	1.7			
07	6	29.85	72	70	68	87	6.3	21	1.6			
10	6	29.85	80	73	69	69	7.6	20	2.4			
13	7	29.83	85	74	69	60	8.2	19	2.2			
16	6	29.79	85	74	69	59	8.5	17	2.9			
19	6	29.80	80	73	69	71	6.2	16	3.5			
22	5	29.83	73	70	69	87	5.8	16	3.0			

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 Totals	CEILING Height of ft.	VISI- BILITY Miles	TEMPERATURE				WIND DIR SPEED Knots	WEATHER	TEMPERATURE	WIND DIR SPEED Knots	WEATHER	TEMPERATURE	WIND DIR SPEED Knots	WEATHER	TEMPERATURE	WIND DIR SPEED Knots												
				AIR °F	NET BULB °F	DSN °F	REL. HUM. %											AIR °F	NET BULB °F	DSN °F	REL. HUM. %	AIR °F	NET BULB °F	DSN °F	REL. HUM. %				
01	0 UNL	7	4	68	66	63	90	17	4	9	80	5	DAY 02	71	70	70	97	19	3	7	250	4	DAY 03	74	73	72	94	16	4

NOTES  
CEILING COLUMN—  
UNL indicates an unlimited ceiling.

WEATHER COLUMN—

- T Tornado
- TS Thunderstorm
- SQ Squall
- R Rain
- RS Rain showers
- ZR Freezing rain
- DZ Drizzle
- SL 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
- BS Blowing sand
- 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 07

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