



# LOCAL CLIMATOLOGICAL DATA

## U.S. DEPARTMENT OF COMMERCE

MAURICE H. STANS, Secretary

### ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

#### ENVIRONMENTAL DATA SERVICE

RICHMOND, VIRGINIA  
BYRD FIELD  
MAY 1970

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

Date	Temperature (°F)						Degree days (Base 65°)		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. 164 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	85	60	73	10	60	0	8	2	8	0	0	30.10	15	7.9	8.6	14	SE	9.8	71	4	6	1	
2	83	59	71	8	58	0	6	0	0	0	0	29.94	18	9.9	10.1	16	S	13.2	96	6	6	2	
3	67	49	58	-5	50	7	0	1	8	0	.13	29.97	01	5.6	8.3	20	N	0.0	0	10	10	3	
4	55	51	53	-11	51	12	0	1	0	0	.39	29.99	01	6.5	6.9	13	N	0.0	0	10	10	4	
5	80	47	64	0	51	1	0	2	8	0	0	29.88	22	5.2	6.2	9	S	12.2	88	2	3	5	
6	65	46	56	-9	34	9	0	0	0	0	0	29.95	35	11.2	13.2	22	N	13.6	98	1	1	6	
7	69	37*	53*	-12	27	12	0	0	0	0	0	30.03	32	5.1	8.5	15	W	13.9	100	0	0	7	
8	87	44	66	1	46	0	0	0	0	0	0	29.86	21	6.9	7.2	17	SW	11.2	80	7	4	8	
9	91	57	74	9	55	0	0	0	0	0	0	29.84	24	7.5	8.1	15	SW	13.9	99	2	2	9	
10	91	62	77	11	57	0	0	12	0	0	0	29.66	22	8.5	9.1	18	NW	12.6	90	5	4	10	
11	85	65	75	9	61	0	0	10	0	0	.01	29.92	21	7.0	7.5	14	SW	8.4	60	8	6	11	
12	88	60	74	8	62	0	0	10	8	0	0	29.88	21	4.4	5.6	11	SW	12.7	90	4	4	12	
13	92	61	77	11	63	0	0	12	0	0	0	29.82	23	2.7	6.3	9	SW	13.8	98	1	1	13	
14	90	65	78	11	65	0	0	13	1	8	0	29.85	02	3.4	7.2	17	E	11.3	80	4	4	14	
15	73	56	65	-2	57	0	0	3	1	8	0	30.05	06	7.0	8.2	13	NE	7.2	50	9	10	15	
16	76	59	68	1	59	0	0	3	1	8	0	29.95	12	5.1	5.9	12	SE	5.6	39	9	9	16	
17	67	51	59	-9	58	6	0	1	3	8	.65	29.81	22	7.6	6.5	29	NW	2.2	16	9	7	17	
18	73	49	61	-7	45	4	0	0	0	0	0	29.99	32	7.4	8.3	17	NW	14.3	100	1	1	18	
19	87	46	67	-1	50	0	0	2	8	0	0	29.97	22	4.5	5.9	10	SW	14.3	100	0	0	19	
20	90	59	75	7	62	0	0	10	8	0	0	29.94	33	6.3	7.3	13	NW	11.5	60	3	3	20	
21	86	60	73	4	59	0	0	8	1	8	0	30.04	05	5.7	7.6	12	E	13.8	96	0	1	21	
22	87	59	73	4	63	0	0	8	2	8	0	29.98	16	6.4	7.2	10	SW	10.2	71	5	6	22	
23	94	68	81	12	64	0	0	16	8	0	0	29.83	23	2.9	4.9	11	SW	11.8	82	3	4	23	
24	94*	68	81*	12	66	0	0	16	8	0	0	29.82	18	2.2	5.8	10	N	14.1	98	2	3	24	
25	89	64	77	8	65	0	0	12	1	3	0	29.81	16	6.7	10.1	17	S	11.1	77	6	7	25	
26	87	68	78	8	69	0	0	13	23	8	.29	29.56	16	2.7	5.9	20	W	6.0	42	9	9	26	
27	83	57	70	0	56	0	0	5	1	0	0	29.77	34	2.9	6.0	15	NE	13.9	96	2	2	27	
28	78	57	68	-2	51	0	0	3	1	8	0	30.11	06	6.2	7.5	12	NE	12.9	89	6	7	28	
29	75	54	65	-6	53	0	0	1	1	8	0	30.27	07	8.3	9.2	15	E	14.1	97	8	6	29	
30	78	55	67	-4	57	0	0	2	0	0	0	30.25	07	8.3	9.1	12	E	12.9	89	6	5	30	
31	84	59	72	1	60	0	0	7	8	0	0	30.12	15	5.3	6.0	10	S	10.8	74	7	7	31	
Sum		Sum		Total		Total		Number of days		Total		Total		For the month:				Total		%		Sum	
2529		1752		91		185		1.84		1.84		0		29.94 17 7 7.5 29 NW				333.3		for 149 148			
Avg.		Avg.		Avg.		Avg.		Precipitation		Dep.				Date: 17				Possible month		Avg.			
81.6		56.5		69.1		2.1		.56		-2		6						439.9		76 4.8			
				Season to date		Snow, ice pellets		Greatest in 24 hours and dates		Greatest depth on ground of snow,													
				Total		Total		Precipitation		Snow, ice pellets													
				4527		220		3		0													
				Total		Total		Heavy fog X		4		.65		17 0									
				662				Clear 12		Partly cloudy 11		Cloudy 8											

### 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	T	.01	.01	T	T			T	T					.06	.06	T	T	.01	T				T	T	4
5																									5
6																									6
7																									7
8																									8
9																									9
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21																									21
22																									22
23																									23
24																									24
25	.13	.16	T																						25
26																									26
27																									27
28																									28
29																									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.

Any errors detected will be corrected and changes in summary data will be annotated in the annual summary.

† ≥ 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.

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I certify that this is an official publication of the Environmental Science Services Administration, and is compiled from records on file at the National Weather Records Center, Asheville, North Carolina 28801.

*William H. Haggard*

Director, National Weather Records Center

### SUMMARY BY HOURS

Hour (Local time)	AVERAGES										Resultant wind	
	Sky cover (In tenths)	Station pressure (In.)	Dry bulb (°F)	Wet bulb (°F)	Rel. hum. %	Dew point (°F)	Wind speed (m.p.h.)	Direction	Speed (m.p.h.)			
01	4	29.93	62	58	81	55	6.5	16	.6			
04	4	29.94	60	57	84	54	6.5	02	.3			
07	5	29.97	63	58	77	55	7.4	32	1.2			
10	4	29.98	73	63	58	56	8.6	34	1.3			
13	5	29.95	78	64	49	56	9.1	19	.8			
16	5	29.91	79	65	49	56	9.6	18	1.8			
19	5	29.91	72	63	63	57	6.2	14	2.7			
22	5	29.93	66	61	76	57	6.5	17	2.4			

