



# LOCAL CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE  
MAURICE H. STANS, Secretary  
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
ENVIRONMENTAL DATA SERVICE

RICHMOND, VIRGINIA  
BYRD FIELD  
FEBRUARY 1970

Latitude 37° 30' N		Longitude 77° 20' W		Elevation (ground) 164 ft.		Standard time used: EASTERN																	
Date	Temperature (°F)						Weather types shown by code 1-9 on dates of occurrence		Snow, Sleet, or Ice on ground at 07AM (In.)	Precipitation		Avg. station pressure (In.) Elev. 164 feet m.s.l.	Wind			Sunshine		Sky cover (Tenths)					
	Maximum	Minimum	Average	Departure from normal	Average dew point	Degree days (Base 65°)	1 2 3 4 5 6 7 8 9	Water equivalent (In.)		Snow, sleet (In.)	Resultant direction		Resultant speed (m.p.h.)	Average speed (m.p.h.)	Fastest mile	Hours and tenths	Percent of possible	Sum	Sum				
1	2	3	4	5	6	7A 7B							16	17	18	19	20	21	22				
1	61	30	46	7	20	19	0		0			30.05	22	7.1	7.9	15	SW	8.6	84	3	4	1	
2	64	39	52	13	47	13	0	1			.45	0	29.03	17	11.0	11.8	25	S	2.0	19	8	7	2
3	56	20	38	-1	43	27	0	1	6	8	.46	.4	29.36	33	6.6	10.5	27	NW	0.0	0	10	10	3
4	26	8*	17	-22	3	48	0	0			0	0	30.07	34	5.9	9.6	20	N	10.4	100	0	0	4
5	38	17	28	-11	14	37	0	0			0	0	30.41	18	5.4	5.9	16	S	0.6	6	10	8	5
6	50	20	35	-4	19	30	0	0			0	0	30.36	01	2.4	3.7	7	NE	8.9	85	3	4	6
7	49	21	35	-5	23	30	0	0			0	0	30.24	03	3.8	5.0	7	E	9.6	91	2	3	7
8	48	23	36	-4	27	29	0	1			0	0	30.08	13	3.8	4.6	9	SE	0.1	1	10	9	8
9	50	34	42	2	40	23	0	1	8		.34	0	29.86	10	7.2	8.2	17	W	0.4	3	10	10	9
10	50	36	43	3	37	22	0	1			.20	0	29.49	31	8.5	9.6	24	NW	0.5	5	9	10	10
11	51	32	42	2	24	23	0	0			0	0	29.51	26	12.0	12.7	25	NW	10.7	100	1	1	11
12	47	29	38	-2	18	27	0	0			0	0	29.70	29	8.0	9.1	18	SW	10.0	93	3	3	12
13	48	28	38	-2	19	27	0	0			0	0	29.87	25	4.8	8.6	15	NW	6.8	66	3	3	13
14	33	25	29	-11	17	36	0	0	4		0	0	30.12	05	8.8	8.9	13	NE	0.0	0	10	8	14
15	54	23	39	-1	28	26	0	0	2	6	.02	0	29.91	24	4.0	8.1	18	SW	2.1	20	10	10	15
16	52	27	40	0	30	25	0	1	6	8	.37	0	30.05	05	9.9	10.2	16	NE	0.0	0	10	10	16
17	32	28	30	-10	27	35	0	1	6	8	.45	0	29.89	01	8.1	8.6	12	N	0.0	0	10	10	17
18	54	26	40	0	33	25	0	1	6	8	0	0	29.74	21	3.5	6.6	15	SW	10.9	100	2	2	18
19	66*	29	48	8	34	17	0	0			0	0	29.60	28	7.4	12.1	22	NW	10.6	96	1	1	19
20	44	19	32	-8	14	33	0	0			0	0	30.06	32	5.0	7.3	21	NW	10.9	98	1	1	20
21	45	13	29	-11	10	36	0	0			0	0	30.26	25	4.5	4.9	16	W	10.9	98	2	1	21
22	63	22	43	2	22	22	0	0			0	0	30.04	23	9.7	10.2	24	W	10.7	97	5	5	22
23	57	25	41	0	24	24	0	0			0	0	30.02	31	5.4	8.1	18	NW	11.1	100	6	5	23
24	61	21	41	0	22	24	0	0			0	0	29.93	23	7.3	7.9	21	W	11.1	99	8	6	24
25	58	22	40	-1	29	25	0	0			.08	0	29.54	31	3.7	9.5	29	N	1.9	17	9	9	25
26	33	11	22	-20	0	43	0	0			0	0	29.90	36	7.3	10.9	23	N	11.3	100	0	1	26
27	58	22	40	-2	17	25	0	0			0	0	29.89	21	8.3	9.1	19	SW	10.0	89	3	3	27
28	51	25	38	-4	21	27	0	0			0	0	30.16	01	5.3	7.1	15	NE	10.5	93	7	5	28

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

\* Extreme temperatures for the month. May be the last of more than one occurrence.  
- Below zero temperature or negative departure from normal.  
†  $\leq 70^\circ$  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.

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

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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 J. Haggard*  
Director, National Weather Records Center

SUMMARY BY HOURS											
AVERAGES											
Hour (Local Time)	Station pressure (In.)	Dry bulb (°F)	Wet bulb (°F)	Rel. hum. %	Dev. point (°F)	Wind speed (m.p.h.)	Direction	Resultant wind	Speed (m.p.h.)	Direction	Speed (m.p.h.)
01	5	29.92	33	29	68	22	7.7	33	.9		
04	4	29.92	30	28	72	22	7.0	29	2.0		
07	5	29.94	29	27	76	22	6.1	31	1.6		
10	5	29.96	38	34	61	25	9.7	28	2.2		
13	6	29.91	45	38	50	25	10.3	27	4.3		
16	6	29.88	47	38	47	25	10.5	27	4.6		
19	6	29.90	39	34	58	24	8.7	31	.8		
22	5	29.93	34	31	66	24	7.6	31	.8		

