



# LOCAL CLIMATOLOGICAL DATA

U. S. DEPARTMENT OF COMMERCE - MAURICE H. STANS, Secretary

RICHMOND, VIRGINIA  
BYRD FIELD  
MAY 1969

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION -- ENVIRONMENTAL DATA SERVICE  
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 123 456 789 X Fog + Heavy fog * Thunderstorm S Sleet H Hail G Glaze D Duststorm S Smoke, haze E Exhausting at 07AM	Snow, sleet, or ice on ground (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, sleet (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	69	38	54	-9	41	11	0	1	0	0	0	30.03	04	4.1	6.0	11	NE	12.6	92	4	2	1					
2	73	39	56	-7	40	9	0	1	0	0	0	30.08	18	4.3	9.0	11	SE	13.8	100	1	0	2					
3	83	47	65	2	50	0	0	0	0	0	0	29.94	20	8.3	8.6	15	SW	13.8	100	0	0	3					
4	89	52	71	7	52	0	0	3	0	.04	0	29.82	18	4.4	5.6	21	N	13.9	100	1	0	3					
5	84	58	71	7	55	0	0	3	0	.01	0	29.79	03	2.5	7.8	12	NE	12.1	87	3	0	3					
6	82	53	68	3	55	0	0	1	0	0	0	29.83	07	5.1	6.2	11	NE	13.9	100	1	1	5					
7	85	50	68	3	55	0	0	3	0	0	0	29.91	15	6.8	7.3	14	S	13.2	95	4	4	7					
8	83	62	73	8	55	0	0	3	0	0	0	29.79	20	10.2	10.5	20	SW	6.1	44	10	8	8					
9	76	54	65	0	55	0	0	1	0	.67	0	29.47	23	10.5	13.1	33	NW	6.5	46	9	8	9					
10	68	47	58	-8	39	7	0	0	0	0	0	29.56	26	8.0	10.6	16	SW	13.1	93	4	3	10					
11	66	50	58	-8	36	7	0	0	0	0	0	29.63	27	10.4	11.5	19	NW	13.3	94	4	4	11					
12	67	43	55	-11	39	10	0	0	0	T	0	29.89	24	8.1	8.5	17	W	9.9	70	6	3	12					
13	76	36*	56	-10	40	9	0	0	0	0	0	29.99	23	4.8	5.9	16	W	13.0	92	3	3	13					
14	74	43	59	-8	49	6	0	0	0	T	0	29.93	29	6.6	4.9	11	W	9.9	70	9	9	14					
15	75	52	64	-3	53	1	0	0	0	0	0	30.04	09	6.3	7.3	14	E	13.3	94	6	5	15					
16	79	49	64	-3	51	1	0	1	0	0	0	30.16	16	5.5	6.6	12	SE	14.1	99	1	1	16					
17	80	50	65	-3	53	0	0	0	0	0	0	30.09	19	8.6	8.8	17	SW	14.2	100	1	1	17					
18	78	37	68	0	58	0	0	3	0	.01	0	30.01	18	11.4	11.7	21	S	10.6	74	9	8	18					
19	75	64	70	2	65	0	0	1	0	.85	0	29.94	17	8.4	8.6	17	S	1.1	8	10	10	19					
20	82	66	74	6	66	0	0	1	3	1.22	0	29.81	20	5.8	7.1	15	S	6.2	43	8	8	20					
21	76	58	67	-2	58	0	0	2	3	.02	0	29.96	03	8.3	8.9	18	NE	12.1	85	2	3	21					
22	78	53	66	-3	55	0	0	1	3	0	0	29.99	03	4.8	6.8	12	N	14.4	100	0	0	22					
23	76	56	66	-3	54	0	0	1	1	0	0	29.97	12	3.6	4.2	12	SE	7.6	53	5	6	23					
24	80	55	68	-1	59	0	0	3	3	.20	0	29.87	14	3.2	5.3	10	NE	6.1	42	9	9	24					
25	77	60	69	0	61	0	0	4	2	.01	0	29.79	36	2.3	3.7	9	N	5.5	38	7	7	25					
26	75	54	65	-5	54	0	0	1	8	0	0	29.91	04	5.8	7.5	14	NE	10.1	70	3	4	26					
27	72	48	60	-10	50	5	0	0	8	0	0	30.08	10	2.5	3.7	7	SE	8.1	56	7	5	27					
28	81	50	66	-4	52	0	0	1	8	0	0	29.98	23	5.7	6.2	9	SW	13.7	94	1	1	28					
29	91	60	76	5	59	0	11	0	8	0	0	29.73	26	6.3	7.2	14	SW	14.5	100	4	2	29					
30	93*	60	77	6	62	0	12	1	3	.29	0	29.62	29	4.3	6.3	24	N	11.8	81	2	2	30					
31	89	64	77	6	62	0	12	1	3	0	0	29.68	01	2.5	4.3	10	N	13.2	90	1	2	31					
Sum	2432	1628				66	90					3.22	0	29.88	20	2.1	7.3	33	NW	341.7							
Avg.	78.5	52.5	65.5	-1.5	53	13															439.9	78	4.4	4.0			
Season to date		Number of days		Total		Total		Snow, sleet		Precipitation		Greatest in 24 hours and dates		Greatest depth on ground of snow, sleet or ice and date													
Maximum Temp.		Minimum Temp.		4166		111		Thunderstorms 6		Precipitation		Snow, Sleet		Greatest depth on ground of snow, sleet or ice and date													
≤ 32°		≥ 90°		≤ 32°		≥ 0°		Heavy fog X 1		2.06		19-20		0													

### 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	T																						T	.04	4
5																										5
6																										6
7																										7
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17																										17
18																										18
19	.01	T																							.01	19
20	.56	.27	.22	.17	T	T				.04	.05	.05	.01	T	T	.04	.02	.01	.04	.04	.05	.06	.11	.32	20	
21	T	.02	T	T																						21
22																										22
23																										23
24																										24
25	.01	T																								25
26																										26
27																										27
28																										28
29																										29
30																									.06	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. 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 H. Haggard*

Director, National Weather Records Center

### SUMMARY BY HOURS

Hour (Local time)	AVERAGES								Resultant wind	
	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	29.88	58	55	81	52	6.0	20	3.3	
04	4	29.87	55	53	86	51	4.4	22	1.6	
07	4	29.91	59	55	78	52	6.8	23	1.2	
10	4	29.92	70	61	57	54	9.4	24	2.4	
13	5	29.89	75	63	49	54	9.2	24	2.6	
16	4	29.84	77	63	47	54	8.3	20	2.2	
19	4	29.84	70	61	58	53	7.6	15	3.2	
22	3	29.88	62	57	74	53	6.3	17	3.6	

