



# LOCAL CLIMATOLOGICAL DATA

U. S. DEPARTMENT OF COMMERCE - C. R. SMITH, Secretary

RICHMOND, VIRGINIA  
BYRD FIELD  
JULY 1968

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION -- ENVIRONMENTAL DATA SERVICE

Latitude **37° 30' N** Longitude **77° 20' W** Elevation (ground) **144** ft. Standard time used: **EASTERN**

Date	Temperature (°F)						Weather types shown by code 1-9 on dates of occurrence 1 2 3 4 5 6 7 8 9 Fog x Heavy Fog x Thunderstorm Sheet Hail Glaze Duststorm Haze Blowing Snow 07AM (In.)	Snow, Sleet, or Ice on ground at (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	Degree days (Base 65°)			Total (Water equivalent) (In.)	Snow, sleet (In.)		Resultant direction	Resultant speed (m.p.h.)	Average speed (m.p.h.)	Fastest mile Speed (m.p.h.) Direction	Total (Hours and tenths)	Percent of possible	Sunrise to sunset	Midnight to midnight		
1	98	76	87	9	61	7		8	0	0	29.90	18	4.3	7.1	13	SE	14.7	100	0	0	1
2	99*	75	87	9	69				0	0	29.87	23	6.1	9.8	18	NW	12.8	87	3	4	2
3	88	70	79	1	65				0	0	29.94	36	5.7	8.1	13	N	10.1	69	7	7	3
4	75	64	70	-8	64		1	8	0	.16	29.99	36	2.8	3.9	9	N	3.1	21	10	9	4
5	85	61*	73	-5	59		1	8	0	0	30.01	10	2.6	5.2	11	SE	12.3	84	6	6	5
6	84	66	75	-3	65		1 3	8	0	.49	29.98	16	3.2	4.2	20	NE	9.1	62	7	7	6
7	86	63	75	-3	65		2	8	0	0	30.02	16	2.9	3.9	8	S	11.5	78	6	5	7
8	86	66	76	-2	64		1	8	0	0	30.03	17	6.8	7.9	13	SE	11.3	77	6	6	8
9	83	63	73	-5	66		1	8	0	.07	29.95	10	5.6	6.3	16	E	7.5	52	10	9	9
10	85	71	78	0	70		1	8	0	0	29.84	02	4.5	6.0	8	N	7.1	49	10	10	10
11	79	72	76	-3	71		1	8	0	.12	29.92	07	4.0	5.2	10	E	1.4	9	10	10	11
12	84	70	77	-2	70				0	0	29.91	07	5.3	5.9	11	SE	5.7	39	9	9	12
13	86	68	77	-2	70		2	8	0	0	29.94	12	4.5	5.0	12	SE	6.4	44	9	9	13
14	91	73	82	3	72		1 3	8	0	0	29.99	18	4.0	4.8	12	S	7.4	51	8	8	14
15	94	73	84	5	72		1	8	0	.79	29.99	33	1.9	5.6	19	NW	10.0	69	4	3	15
16	93	72	83	4	72		1 3	8	0	.37	29.90	36	2.9	5.2	19	SE	9.4	65	6	5	16
17	94	73	84	5	72		1 3	8	0	0	29.85	19	.4	4.8	8	NE	8.8	61	4	4	17
18	92	71	82	3	72		1	8	0	0	29.85	17	6.8	7.1	12	SE	13.4	93	2	2	18
19	92	71	82	4	71		1 3	8	0	1.12	29.79	20	4.2	5.8	28	NW	9.7	67	4	4	19
20	87	67	77	-1	65		1	8	0	.03	29.89	01	7.4	7.8	11	N	14.3	99	2	3	20
21	89	62	76	-2	63				0	0	30.02	02	2.2	4.5	9	E	14.4	100	2	1	21
22	92	67	80	2	68		3	8	0	0	30.01	20	6.4	7.3	13	S	11.3	78	5	3	22
23	94	70	82	4	69		1	8	0	0	29.95	27	3.3	5.8	10	N	14.1	99	3	3	23
24	95	73	84	6	70		1	8	0	0	29.90	23	8.2	9.1	16	SW	13.8	97	4	3	24
25	97	72	85	7	70		1	8	0	.26	29.87	24	2.7	5.8	21	N	9.5	66	5	5	25
26	82	72	77	-1	70		1	8	0	0	29.93	05	3.6	5.2	10	NE	5.6	40	9	9	26
27	78	71	75	-3	69		1	8	0	0	29.90	09	2.3	2.7	7	W	0.1	0	10	9	27
28	90	73	82	4	71		1	8	0	0	29.73	28	2.8	5.0	23	NW	8.8	62	9	8	28
29	87	70	79	1	63				0	0	29.90	03	5.0	6.0	9	N	8.4	59	8	8	29
30	86	66	76	-2	63				0	0	30.03	09	5.2	6.5	13	SE	10.9	77	4	5	30
31	90	66	78	0	67				0	0	29.98	18	2.3	4.8	9	S	10.1	72	7	5	31
Sum	2741	2147				Total	0	0	0	0	29.93	14	.8	5.9	28	NW	293.0		%	Sum	Sum
Avg.	88.4	69.3	78.9	0.8	68	Season to date					Dep.						Possible	month	Avg.	Avg.	
						Total	0	0	0	14	0						448.3		65	6.1	5.9

\* Extreme for the month. May be the last of more than one occurrence.  
 - Below zero temperatures or negative departure from normal.  
 T In columns 9, 10, and 11 and in the Hourly Precipitation table indicates an amount too small to measure.  
 X Heavy fog — visibility 1/4 mile or less.

Greatest in 24 hours and dates  
 Precipitation 1.15 19-20  
 Snow, Sleet 0  
 Greatest depth on ground of snow, sleet or ice and date 0  
 ‡ ≥ 70° at Alaskan stations. + Also on an earlier date, or dates.

## HOURLY PRECIPITATION (Liquid 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	T	.01	.03	.04	.02	T	.01	.01	.01	.03	T						T	T	T				4	
5																								5	
6																.24	.23	.02						6	
7																								7	
8																								8	
9																								9	
10																.01	T		.04	T	T	.02		10	
11	T														T	T		T	T	T	T	T	T	11	
12	T																							12	
13																								13	
14																								14	
15																								15	
16																.31	.04	.02	.43	.02				16	
17																								17	
18																								18	
19																								19	
20		.03	T													.66	.45	.01						20	
21																								21	
22																								22	
23																								23	
24																								24	
25																	.02	.20		.01	T	.02	.01	25	
26																								26	
27																								27	
28																								28	
29																								29	
30																								30	
31																								31	

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 if published.

Subscription Price: Local Climatological Data \$1.00 per year including annual Summary if published. Single copy: 10 cents for monthly Summary; 15 cents for annual Summary. Checks or money orders should be made payable and remittances and correspondence should be sent to the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402.

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

Hour (Local time)	Sky cover (in tenths)	Station press. (In.)	Dew bulb (°F)	Wet bulb (°F)	Rel. hum. %	Dew point (°F)	Wind speed (m.p.h.)	Resultant wind	
								Direction	Speed (m.p.h.)
01	5	29.92	72	69	86	68	3.7	18	1.3
04	5	29.92	71	68	88	67	4.1	26	.5
07	5	29.95	74	70	82	68	5.5	32	1.4
10	5	29.96	82	73	65	68	6.8	03	1.1
13	6	29.94	86	74	56	68	7.7	09	1.2
16	7	29.90	85	73	58	68	8.2	14	1.6
19	7	29.91	79	72	71	69	6.1	14	3.5
22	6	29.93	74	70	83	68	4.8	17	1.6

