



LOCAL CLIMATOLOGICAL DATA

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

RICHMOND, VIRGINIA
BYRD FIELD
APRIL 1968

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 1 2 3 4 5 6 7 8 9 Fog, Fog, x Thunderstorm Snow Hail Glaze Duststorm Smoke, Haze Blowing Snow	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)		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	68	45	57	-4	39	8	1	0	.29	0	29.91	36	5.9	11.2	24	N	7.4	58	6	5	1
2	62	33	48	-5	24	17	0	0	0	0	30.26	12	2.3	6.5	11	S	9.9	78	6	5	2
3	55	43	49	-5	36	16	0	0	T	0	30.13	20	5.6	6.0	11	SW	0.0	0	10	10	3
4	80	53	67	13	53	0	0	0	T	0	29.87	21	12.9	13.1	27	SW	5.3	42	10	10	4
5	71	49	60	6	55	5	1	0	.68	0	29.82	22	3.1	12.4	23	S	0.0	0	10	10	5
6	59	38	49	-6	32	16	0	0	0	0	30.12	05	7.7	9.5	17	NE	10.5	82	3	4	6
7	67	33*	50	-5	37	15	1	8	0	0	30.07	14	4.2	5.3	14	SE	10.5	82	3	4	7
8	81	51	66	10	53	0	0	0	T	0	29.90	21	9.1	10.4	20	SW	5.8	45	9	8	8
9	81	56	69	13	46	0	0	0	T	0	29.95	29	5.6	6.8	15	NW	7.6	59	7	7	9
10	66	50	58	1	37	7	0	0	T	0	29.97	12	4.4	7.6	12	NE	1.1	8	10	10	10
11	65	41	53	-4	41	12	1	3	.24	0	29.93	02	5.1	7.9	15	N	6.3	48	8	6	11
12	74	37	56	-1	33	9	0	8	0	0	30.11	30	2.4	4.6	8	SE	13.1	100	0	0	12
13	82	40	61	4	39	4	0	0	0	0	30.11	20	2.6	4.2	7	SW	12.9	98	5	4	13
14	85*	45	65	7	43	0	1	8	0	0	29.90	16	4.1	5.5	13	SE	10.8	82	4	3	14
15	67	51	59	1	44	6	1	8	.22	0	29.68	36	7.1	11.4	17	N	7.2	55	8	5	15
16	69	43	56	-3	29	9	0	0	0	0	29.88	02	9.0	10.5	21	N	13.2	100	1	1	16
17	75	38	57	-2	34	8	0	0	0	0	29.98	04	1.7	5.9	12	NE	10.8	81	6	6	17
18	80	42	61	1	42	4	0	0	0	0	29.87	17	4.8	5.2	11	SW	9.5	72	5	4	18
19	84	52	68	8	52	0	0	8	0	0	29.75	06	3.0	7.2	16	NE	11.7	88	3	3	19
20	77	52	65	5	51	0	1	3	0	0	29.79	23	.8	4.6	11	SE	5.4	40	10	8	20
21	80	53	67	6	54	0	1	3	.14	0	29.78	11	3.7	5.9	15	SE	10.6	79	3	5	21
22	71	50	61	0	50	4	1	8	0	0	29.91	07	6.9	7.6	12	E	5.0	37	9	8	22
23	71	52	62	1	47	3	0	8	T	0	29.93	11	6.7	8.3	17	SE	10.0	74	8	9	23
24	70	52	61	0	57	4	1	3	0	0	29.59	19	8.4	10.6	18	SW	1.0	7	10	9	24
25	69	42	56	-6	33	9	0	0	0	0	29.64	28	7.8	10.5	26	NW	13.5	100	0	1	25
26	75	37	56	-6	40	9	0	0	0	0	29.84	15	6.8	8.2	13	S	13.4	99	6	4	26
27	80	48	64	2	50	1	1	3	.58	0	29.79	32	1.8	6.6	23	N	8.3	61	9	7	27
28	67	43	55	-8	45	10	1	8	0	0	30.00	05	2.4	6.0	9	E	13.5	99	6	4	28
29	65	44	55	-8	45	10	1	8	.10	0	29.92	15	2.8	5.3	12	S	5.9	43	9	7	29
30	75	44	60	-3	46	5	2	8	T	0	29.55	32	5.4	7.1	17	W	9.3	68	6	6	30

Sum	Sum	Total					Dep.	Temperature:				Total	Total	For the month:			Total	%	Sum	Sum			
2171	1357	191					-28	Number of days				2.93	0	29.90	15	.7	7.7	27	SW	249.5	for	190	173
Avg.	Avg.	Avg.	Dep.	Avg.	Season to date					Max.	Max.	Min.	Min.	Date: 04			Possible	month	Avg.	Avg.			
72.4	45.2	58.8	0.7	43	4101					289	0	0	0	Greatest in 24 hours and dates			Greatest depth on ground of						
										Precipitation		Snow, Sleet		Greatest depth on ground of snow, sleet or ice and date									
										.68		24+		0									

* 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 ¼ mile or less.
 ‡ ‡ 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	T	T	T	T	T	.03	.05	.18	.03	T															1
2							T	T	T	T	T														2
3																									3
4																									4
5																									5
6																									6
7																									7
8																									8
9																									9
10																									10
11						.11	.06	.03	.03	.01															11
12																									12
13																									13
14																									14
15																									15
16																									16
17																									17
18																									18
19																									19
20																									20
21	T	.02		.12	T	T																			21
22																									22
23																									23
24	.02	T				.03	T	T	T	T	T	.01	.47	.14		T	T	T		.01	T			24	
25																									25
26																									26
27																									27
28																									28
29																									29
30																									30

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.

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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

Hour (Local time)	Sky cover (In tenths)	Station press. (In.)	Dry bulb (°F)	Wet bulb (°F)	Rel. hum.	Dew point (°F)	Wind speed (m.p.h.)	Resultant wind	
								Direction	Speed (m.p.h.)
01	4	29.90	52	48	73	43	7.1	16	1.5
04	5	29.89	50	46	78	42	5.8	20	.3
07	6	29.93	52	48	75	44	6.8	27	1.1
10	6	29.94	62	52	53	43	8.5	29	1.5
13	6	29.90	69	55	40	41	9.7	24	.3
16	7	29.86	69	55	42	43	8.9	16	.3
19	6	29.87	62	53	54	44	8.1	12	3.3
22	5	29.90	55	49	65	43	7.0	13	2.4

OBSERVATIONS AT 3-HOUR INTERVALS

DAY 01										DAY 02										DAY 03										
HR	SKY	CEILING	WIND	DRY	WET	REL.	DEW	DIR.	WIND	SKY	CEILING	WIND	DRY	WET	REL.	DEW	DIR.	WIND	SKY	CEILING	WIND	DRY	WET	REL.	DEW	DIR.	WIND			
01	04	07	10	13	16	19	22	01	04	07	10	13	16	19	22	01	04	07	10	13	16	19	22	01	04					
01	10	50		67	62	73	58	21	8	0	UNL	15		41	34	49	23	36	5	3	UNL	15		43	37	58	29	17	6	
04	10	40		63	60	84	58	20	6	0	UNL	15		37	32	57	23	36	5	10	100	12		46	39	52	29	21	7	
07	10	40		63	61	87	59	23	6	1	UNL	12		39	33	53	23	01	4	4	10	80	12		47	40	54	31	18	4
10	10	80		50	46	74	42	01	14	3	UNL	15		52	40	21	22	06	3	10	55	8		50	44	64	38	20	5	
13	4	UNL	15	60	45	26	25	34	13	10	CIR	15		58	43	28	23	13	7	10	45	12		54	44	45	33	18	7	
16	1	UNL	15	62	45	22	23	03	16	10	CIR	15		59	44	27	25	17	5	10	45	15		53	47	64	41	24	6	
19	0	UNL	15	55	42	30	24	36	7	9	CIR	15		52	41	27	27	17	7	10	30	15		53	48	69	43	20	3	
22	0	UNL	15	49	38	35	22	36	9	9	CIR	15		49	41	26	29	17	7	10	30	12		53	48	72	44	22	4	

REFERENCE NOTES

CEILING COLUMN—
UNL indicates an unlimited ceiling.
CIR indicates a cirriform cloud ceiling of unknown height.

WEATHER COLUMN—
T Tornado
R Thunderstorm
Q Squall

RW Rain showers
ZR Freezing rain
L Drizzle
ZL Freezing drizzle
SP Snow pellets
IC Ice crystals
SW Snow showers
SG Snow grains
E Sleet
A Hail
AP Small hail
F Fog
HF Ice fog
GF Ground fog
BD Blowing dust
BN Blowing sand
BS Blowing snow
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 or microfiche copies of the original records. Inquiries as to availability and costs should be addressed to:

Director
National Weather Records Center
Federal Building
Asheville, N. C. 28801