



LOCAL CLIMATOLOGICAL DATA

U. S. DEPARTMENT OF COMMERCE - ALEXANDER B. TROWBRIDGE, Acting Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION -- ENVIRONMENTAL DATA SERVICE

RICHMOND, VIRGINIA
BYRD FIELD
MARCH 1967

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 Heavy Fog x Thunderstorm Sleet 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	40	19	30	-13	7	35		0	0	0	30.04	34	11.1	11.7	20	NW	11.4	100	0	0	1	
2	60	19	40	-3	20	25		0	0	0	29.99	20	10.7	10.9	25	SW	10.2	89	8	6	2	
3	74	42	58	15	35	7		0	0	0	29.78	22	10.8	11.1	19	SW	9.6	83	8	7	3	
4	61	36	49	9	31	16		0	T	0	29.91	08	6.6	7.9	14	E	4.5	39	8	6	4	
5	77	40	59	15	44	6		0	0	0	29.74	21	5.8	8.6	19	SW	8.0	69	10	9	5	
6	72	47	60	15	55	5		0	0	.02	29.50	20	5.0	12.5	26	SW	0.2	1	10	9	6	
7	52	32	42	-3	37	23		1	0	.56	29.50	35	8.0	9.5	25	N	6.5	56	6	6	7	
8	51	26	39	-6	27	26		0	0	0	30.04	08	1.6	3.5	9	NE	8.4	72	4	3	8	
9	65	29	47	1	34	18		1	8	0	30.12	21	5.1	6.2	17	SW	10.4	89	2	2	9	
10	74	39	57	11	41	8		0	0	0	30.06	21	10.2	10.8	22	SW	9.7	82	8	5	10	
11	80*	46	63	17	53	2		3	8	0	29.78	24	6.1	7.8	33	NW	11.4	97	6	5	11	
12	55	41	48	1	48	17		1	8	0	29.91	05	7.9	8.6	16	NE	0.0	0	10	9	12	
13	49	40	45	-2	44	20		1	0	T	29.97	06	3.3	5.5	10	NE	0.0	0	10	10	13	
14	77	48	63	16	56	2		1	3	8	0	29.76	23	5.7	6.3	15	SW	5.3	45	8	9	14
15	70	44	57	9	58	8		2	3	8	0	29.62	01	1.0	7.2	29	NW	4.1	34	9	8	15
16	51	34	43	-5	22	22		0	0	0	29.99	32	8.2	12.7	29	NW	12.0	100	0	1	16	
17	47	24	36	-12	15	29		0	T	0	29.88	32	7.9	13.7	33	NW	8.3	69	5	4	17	
18	37	18	28	-21	9	37		0	0	0	30.32	36	8.0	8.5	16	N	12.0	100	0	0	18	
19	44	17*	31	-18	14	34		0	0	0	30.49	15	1.2	6.6	11	SE	12.1	100	1	0	19	
20	47	25	36	-13	29	29		1	8	0	30.27	19	3.3	6.3	12	SW	1.4	12	10	8	20	
21	44	37	41	-9	39	24		1	0	.59	29.94	06	3.9	7.2	13	NW	0.0	0	10	10	21	
22	51	35	43	-7	33	22		1	8	0	29.99	36	7.3	7.9	12	N	3.4	27	9	9	22	
23	57	27	42	-8	33	23		1	8	0	29.97	19	2.9	6.3	13	SW	5.1	41	7	4	23	
24	54	30	42	-9	31	23		2	8	0	30.06	36	7.2	7.8	17	N	10.0	81	5	5	24	
25	60	27	44	-7	30	21		1	8	0	30.10	01	1.2	3.2	7	NW	10.8	88	1	3	25	
26	72	36	54	3	38	11		0	8	0	30.06	13	5.2	6.0	15	E	9.5	77	1	3	26	
27	64	37	51	0	38	14		0	0	0	30.15	11	5.2	7.2	13	SE	8.8	71	10	8	27	
28	66	42	54	2	47	11		1	8	0	30.02	16	7.2	7.3	10	NW	7.4	60	9	10	28	
29	64	43	54	2	48	11		1	8	0	29.97	02	5.3	10.8	18	N	10.6	85	5	5	29	
30	63	34	49	-3	37	16		1	8	0	30.22	14	3.7	6.2	11	SE	12.5	100	1	1	30	
31	67	32	50	-3	33	15		1	8	0	30.33	15	6.0	7.2	12	SE	11.8	94	4	3	31	

Sum	1845	1046				Total	560	Dep.	14	Temperature:		Total	2.34	Total	29.98	25	For the month:	33	NW	235.4	Total	370.9	%	63	Sum	185	Sum	168
Avg.	59.5	33.7	Avg.	46.6	Dep.	-1.1	35	Season to date		Max.	<32	Max.	>90	Min.	<32	Min.	<0	Date:	17*	Possible	month	Avg.	6.0	Avg.	5.4			

* 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.
 † ‡ 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				
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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 7 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.

AVERAGES BY HOURS											
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.)	Direction	Resultant wind Speed (m.p.h.)		
01	5	29.98	41	39	80	35	7.2	19	.9		
04	5	29.97	39	37	85	34	6.4	09	.2		
07	6	30.00	38	37	85	34	6.5	31	1.0		
10	6	30.03	48	42	64	34	10.4	30	1.5		
13	6	29.98	55	46	51	35	9.8	29	2.6		
16	6	29.95	57	47	48	36	10.8	26	1.7		
19	5	29.96	49	44	63	36	7.5	11	2.6		
22	5	30.00	44	41	75	36	6.7	12	1.6		

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William H. Fitzgerald
 Director, National Weather Records Center

OBSERVATIONS AT 3-HOUR INTERVALS

DAY 01										DAY 02										DAY 03									
HR	COVER	SKY	CEILING	WIND	DRY	WET	REL.	DIR.	SPEED	HR	COVER	SKY	CEILING	WIND	DRY	WET	REL.	DIR.	SPEED	HR	COVER	SKY	CEILING	WIND	DRY	WET	REL.	DIR.	SPEED
01	0	UNL	15	15	30	25	49	13	35	01	0	UNL	15	15	19	18	77	13	00	01	8	CIR	15	15	49	41	48	30	21
04	0	UNL	15	15	28	22	55	12	31	04	0	UNL	15	15	21	18	77	13	19	04	10	CIR	10	10	42	37	65	31	20
07	0	UNL	15	15	22	16	50	12	32	07	0	UNL	15	15	21	19	74	14	17	07	10	CIR	10	10	40	39	33	36	23
10	0	UNL	15	15	32	24	50	04	34	10	0	UNL	15	15	42	32	31	13	22	10	3	UNL	8	8	60	49	43	37	23
13	0	UNL	15	15	37	27	22	01	34	13	0	UNL	15	15	53	40	27	20	15	13	7	UNL	10	10	71	55	31	39	23
16	0	UNL	15	15	40	29	18	00	36	16	0	UNL	15	15	58	45	31	27	21	16	10	CIR	10	10	74	56	28	39	24
19	0	UNL	15	15	31	24	30	03	34	19	0	UNL	15	15	52	42	40	28	20	19	6	UNL	10	10	62	50	41	38	21
22	0	UNL	15	15	23	20	60	11	05	22	0	UNL	15	15	48	40	48	29	20	22	3	UNL	15	15	58	48	46	37	23

REFERENCE NOTES

- CEILING COLUMN—
 UNL indicates an unlimited ceiling.
 CIR indicates a cirriform cloud ceiling of unknown height.
- WEATHER COLUMN—
 T Tornado
 T Thunderstorm
 Q Squall
 R Rain
 RW Rain showers
 ZR Freezing rain
 L Drizzle
 ZL Freezing drizzle
 S Snow
 SP Snow pellets
 IC Ice crystals
 SW Snow showers
 SG Snow grains
 E Sleet
 A Hail
 AP Small hail
 F Fog
 IF 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 terms 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