



LOCAL CLIMATOLOGICAL DATA

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

RICHMOND, VIRGINIA
BYRD FIELD
APRIL 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			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°)		Snow, sleet or ice on ground at 07AM (In.)	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	Hours and tenths	Percent of possible	Sunrise to sunset		Midnight to midnight			
						Heating	Cooling																	
1	64	28*	46	-7	29	19	0	0	0	0	0	30.21	17	7.8	8.8	17	S	12.6	100	1	1	1	1	
13	66	36	51	-6	34	14	0	1	0	0	0	30.18	10	4.4	6.6	12	E	11.6	88	4	5	13	13	
Sum	2121	1336				237	21			2.60	0	29.86	21	2.0	8.5	32	SW	271.8		for	178	163		
Avg.	70.7	44.5	57.6	-0.5	45	18				0.08								395.0		69	5.9	5.4		

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
4	.03	.11	.19	.18	.04	T	.01	T	.03	.01	.01	.04	.10	.01	.01	.01	.01	.01	T	T	.03	.06	.01		4
10																									10
16													.01	.03	T	T						.02	.05	T	16

* Extreme temperatures for the month. May be the last of more than one occurrence.
 - Below zero temperature or negative departure from normal.
 † $\frac{1}{2}$ 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.

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 H. Haggard
 Director, National Weather Records Center

SUMMARY BY HOURS

Hour (Local time)	AVERAGES											Resultant wind	
	Sky cover (In tenths)	Station pressure (In.)	Dry bulb (°F)	Wet bulb (°F)	Rel. hum. %	Dew point (°F)	Wind speed (m.p.h.)	Direction	Speed (m.p.h.)	Direction	Speed (m.p.h.)		
01	4	29.87	52	49	82	46	6.9	19	2.4				
04	5	29.86	49	47	87	45	6.8	20	.7				
07	6	29.90	51	48	84	46	7.4	25	.5				
10	6	29.91	52	53	59	46	10.7	24	2.5				
13	6	29.86	67	55	48	44	10.4	23	2.7				
16	6	29.82	68	56	47	44	10.8	22	3.2				
19	5	29.83	62	54	58	45	7.7	17	2.8				
22	5	29.86	56	51	73	46	7.3	19	2.9				

OBSERVATIONS AT 3-HOUR INTERVALS

DAY 01												DAY 02												DAY 03											
HOUR	SKY COVER (%)	CEILING (hths of ft.)	WIND DIR	WIND SPEED (knts)	VISIB (miles)	DRY BULB (°F)	WET BULB (°F)	REL. HUM. (%)	DEW PT. (°F)	DIR.	WIND DIR	WIND SPEED (knts)	VISIB (miles)	DRY BULB (°F)	WET BULB (°F)	REL. HUM. (%)	DEW PT. (°F)	DIR.	WIND DIR	WIND SPEED (knts)	VISIB (miles)	DRY BULB (°F)	WET BULB (°F)	REL. HUM. (%)	DEW PT. (°F)	DIR.									
01	0	UNL	12	32	29	72	24	13	4	6	8	80	12	55	52	80	49	19	5	8	UNL	15	60	55	70	50	04	7							
04	0	UNL	12	30	28	78	24	12	4	4	10	80	12	55	53	90	52	20	13	10	60	15	55	51	77	48	04	9							
07	0	UNL	10	32	30	82	27	10	3	10	10	CIR	7	57	54	80	51	21	10	6	100	10	48	46	83	43	05	8							
10	0	UNL	10	48	41	52	31	19	7	7	5	UNL	10	49	49	53	51	23	11	3	UNL	10	55	48	57	40	06	5							
13	1	UNL	10	58	45	32	28	19	7	12	7	CIR	10	80	62	34	49	25	15	7	80	10	59	50	51	41	05	8							
16	3	UNL	15	64	48	27	29	19	7	13	10	40	10	79	60	31	46	27	16	4	UNL	7	62	52	48	42	10	8							
19	3	UNL	12	58	46	36	31	18	6	10	10	40	10	72	59	44	49	38	16	8	UNL	7	56	48	41	13	8								
22	0	UNL	12	95	47	33	38	17	10	10	100	12	67	57	37	51	48	28	2	0	UNL	7	45	43	83	40	13	6							

NOTES

CEILING COLUMN—

UNL indicates an unlimited ceiling.
 CIR indicates a ciriform cloud ceiling of unknown height.

WEATHER COLUMN—

- * 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 tens of degrees from true North; i. e., 09 for East, 13 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

STATION: RICHMOND VA

YEAR & MONTH: 69 04