



LOCAL CLIMATOLOGICAL DATA
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

RICHMOND, VIRGINIA
BYRD FIELD
JUNE 1971

Latitude 37° 30' N Longitude 77° 20' W Elevation (ground) 164 ft. Standard time used: EASTERN WBAN #13740

Main climatological data table with columns for Date, Temperature (Maximum, Minimum, Average, Departure from normal, Average dew point, Degree days Base 65°F), Weather types on dates of occurrence, Snow, ice pellets or ice on ground at 07AM, Precipitation (Water equivalent, Snow, ice pellets in.), Avg. station pressure, Wind (Resultant speed, Fastest mile), Sunshine (Hours and tenths, Percent of possible), and Sky cover (Tenths).

Summary statistics table including monthly totals for temperature, precipitation, wind, and sky cover, along with seasonal and annual averages.

HOURLY PRECIPITATION (Water equivalent in inches)

Hourly precipitation table with columns for Date, A.M. Hour ending at, and P.M. Hour ending at, showing precipitation amounts in inches for each hour.

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. Heavy fog restricts visibility to 1/4 mile or less. 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 National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Haggard
Director, National Climatic Center

SUMMARY BY HOURS table with columns for Hour time, Local time, Sky cover, Station pressure, Temperature (Air, Wet bulb, Dew pt., Relative humidity), Wind speed, and Resultant wind.

OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SKY COVER			VISI- BILITY	WEATHER	TEMPERATURE			WIND			SKY COVER	VISI- BILITY	WEATHER	TEMPERATURE			WIND			SKY COVER	VISI- BILITY	WEATHER	TEMPERATURE			WIND										
	TOP	MID	BLW			AIR	WET BULB	DEW PT	DIR.	SPEED	DIR.				SPEED	AIR	WET BULB	DEW PT	DIR.	SPEED				AIR	WET BULB	DEW PT	DIR.	SPEED	AIR	WET BULB	DEW PT	DIR.	SPEED				
01	4	UNL	7	7		63	62	61	93	22	3	0	UNL	7		60	59	58	93	10	5	10	25	5		DAY 03											

NOTES

CEILING COLUMN—  
UNL indicates an unlimited ceiling.

WEATHER COLUMN—

- T Tornado
- TS Thunderstorm
- Q Squall
- R Rain
- RS Rain showers
- ZR Drizzle
- ZL Freezing drizzle
- S Snow
- SP Snow pellets
- IC Ice crystals
- SW Snow showers
- SG Snow grains
- IP Ice pellets
- A Hail
- F Fog
- IF Ice fog
- GF Ground fog
- BD Blowing dust
- BN Blowing sand
- BS Blowing spray
- BY Blowing snow
- 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, microfiche, or paper copies of the original records. Inquiries as to availability and costs should be addressed to: Director, National Climatic Center, Federal Building, Asheville, North Carolina 28801.