# LOCAL CLIMATOLOGICAL DATA

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

RICHMOND, VIRGINIA
NATIONAL WEATHER SERVICE OFC
BYRD FIELD
OCTOBER 1973

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

| Date | Temperature °F Maximum | Minimum | Average | Departure from normal | Average dew point | Degree days Base 65° Heating | Cooling | Weather types on dates of occurrence (1 Fog, 2 Heavy fog x, 3 Thunderstorm, 4 Ice pellets, 5 Hail, 6 Glaze, 7 Duststorm, 8 Smoke, Haze, 9 Blowing snow) | Snow, ice pellets or ice on ground at 07AM In. | Precipitation Water equivalent In. | Snow, ice pellets In. | Avg. station pressure In. Elev. 177 feet m.s.l. | Wind Resultant direction | Resultant speed m.p.h. | Average speed m.p.h. | Fastest mile Speed m.p.h. | Direction | Sunshine Hours and tenths | Percent of possible | Sky cover Tenths Sunrise to sunset | Midnight to midnight | Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7A | 7B | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 1 | 71 | 61 | 66 | 1 | 60 | 0 | 1 | | 0 | 0 | 0 | 30.08 | 06 | 7.8 | 8.2 | 10 | NE | 0.4 | 3 | 10 | 10 | 1 |
| 2 | 76 | 65 | 71 | 7 | 66 | 0 | 6 | 1 3 8 | 0 | 1.11 | 0 | 29.99 | 04 | 2.9 | 6.3 | 15 | NW | 2.5 | 21 | 10 | 8 | 2 |
| 3 | 84 | 58 | 71 | 7 | 63 | 0 | 6 | 1 8 | 0 | 0 | 0 | 29.89 | 24 | 4.2 | 5.2 | 8 | W | 10.7 | 91 | 3 | 4 | 3 |
| 4 | 86 | 60 | 73 | 10 | 62 | 0 | 8 | 1 8 | 0 | 0 | 0 | 29.86 | 20 | .9 | 4.0 | 6 | N | 11.7 | 100 | 0 | 0 | 4 |
| 5 | 88* | 57 | 73* | 10 | 58 | 0 | 8 | 1 8 | 0 | 0 | 0 | 29.89 | 34 | 4.6 | 9.1 | 16 | NE | 11.4 | 97 | 6 | 3 | 5 |
| 6 | 75 | 46 | 61 | -1 | 44 | 4 | 0 | | 0 | 0 | 0 | 30.10 | 03 | 4.4 | 5.6 | 14 | E | 11.6 | 100 | 1 | 2 | 6 |
| 7 | 76 | 44 | 60 | -2 | 48 | 5 | 0 | 8 | 0 | 0 | 0 | 30.03 | 20 | 2.6 | 3.2 | 9 | S | 9.2 | 79 | 7 | 5 | 7 |
| 8 | 69 | 53 | 61 | 0 | 59 | 4 | 0 | 1 8 | 0 | .15 | 0 | 29.98 | 16 | 2.1 | 3.7 | 7 | NW | 0.0 | 0 | 10 | 9 | 8 |
| 9 | 73 | 58 | 66 | 5 | 60 | 0 | 1 | 1 | 0 | 0 | 0 | 30.00 | 09 | 2.6 | 3.6 | 5 | E | 3.4 | 30 | 10 | 10 | 9 |
| 10 | 77 | 57 | 67 | 6 | 60 | 0 | 2 | 1 8 | 0 | 0 | 0 | 29.98 | 09 | 1.5 | 2.7 | 5 | NE | 7.3 | 63 | 6 | 6 | 10 |
| 11 | 72 | 51 | 62 | 2 | 55 | 3 | 0 | 1 8 | 0 | 0 | 0 | 30.07 | 06 | 6.5 | 6.8 | 13 | NE | 9.6 | 84 | 4 | 6 | 11 |
| 12 | 73 | 50 | 62 | 2 | 52 | 3 | 0 | 1 8 | 0 | 0 | 0 | 30.11 | 16 | 2.3 | 3.6 | 6 | SW | 9.8 | 86 | 4 | 5 | 12 |
| 13 | 77 | 45 | 61 | 1 | 51 | 4 | 0 | 1 | 0 | 0 | 0 | 30.00 | 22 | 7.2 | 7.8 | 15 | SW | 10.0 | 88 | 3 | 4 | 13 |
| 14 | 80 | 46 | 63 | 4 | 52 | 2 | 0 | 1 8 | 0 | T | 0 | 29.87 | 29 | 5.7 | 8.3 | 15 | NW | 9.4 | 83 | 2 | 3 | 14 |
| 15 | 81 | 41 | 61 | 2 | 47 | 4 | 0 | | 0 | 0 | 0 | 29.78 | 23 | 7.1 | 7.3 | 17 | SW | 11.3 | 100 | 2 | 1 | 15 |
| 16 | 75 | 43 | 59 | 0 | 49 | 6 | 0 | | 0 | 0 | 0 | 29.65 | 36 | 3.5 | 7.6 | 11 | SW | 11.0 | 98 | 5 | 4 | 16 |
| 17 | 63 | 33 | 48* | -10 | 32 | 17 | 0 | | 0 | 0 | 0 | 29.92 | 33 | 5.4 | 6.6 | 15 | NW | 10.2 | 91 | 2 | 1 | 17 |
| 18 | 72 | 31* | 52 | -6 | 33 | 13 | 0 | | 0 | 0 | 0 | 29.92 | 22 | 5.9 | 6.9 | 18 | SW | 11.2 | 100 | 2 | 1 | 18 |
| 19 | 65 | 39 | 52 | -6 | 38 | 13 | 0 | | 0 | 0 | 0 | 30.02 | 04 | 2.5 | 5.5 | 12 | NE | 11.1 | 100 | 0 | 0 | 19 |
| 20 | 80 | 42 | 61 | 4 | 46 | 4 | 0 | 8 | 0 | 0 | 0 | 29.86 | 24 | 3.3 | 8.6 | 13 | SW | 11.1 | 100 | 0 | 1 | 20 |
| 21 | 68 | 43 | 56 | -1 | 45 | 9 | 0 | | 0 | 0 | 0 | 30.05 | 04 | 6.9 | 7.8 | 11 | NE | 11.0 | 100 | 1 | 0 | 21 |
| 22 | 70 | 39 | 55 | -2 | 45 | 10 | 0 | 1 8 | 0 | 0 | 0 | 30.10 | 04 | 2.2 | 3.9 | 6 | NE | 11.0 | 100 | 2 | 1 | 22 |
| 23 | 70 | 42 | 56 | 0 | 50 | 9 | 0 | 2 8 | 0 | 0 | 0 | 29.99 | 36 | 3.7 | 4.3 | 5 | NE | 4.6 | 42 | 6 | 4 | 23 |
| 24 | 74 | 46 | 60 | 4 | 50 | 5 | 0 | 2 8 | 0 | 0 | 0 | 29.91 | 01 | 7.2 | 7.5 | 10 | NE | 6.7 | 61 | 6 | 3 | 24 |
| 25 | 77 | 48 | 63 | 8 | 46 | 2 | 0 | 1 8 | 0 | 0 | 0 | 29.82 | 02 | 10.0 | 10.2 | 15 | NE | 10.6 | 97 | 3 | 2 | 25 |
| 26 | 77 | 46 | 62 | 7 | 48 | 3 | 0 | 8 | 0 | 0 | 0 | 29.72 | 33 | 6.5 | 7.1 | 10 | N | 10.8 | 100 | 0 | 0 | 26 |
| 27 | 73 | 44 | 59 | 4 | 46 | 6 | 0 | 8 | 0 | 0 | 0 | 29.84 | 02 | 2.1 | 4.0 | 10 | N | 10.8 | 100 | 0 | 0 | 27 |
| 28 | 74 | 49 | 62 | 8 | 52 | 3 | 0 | 2 8 | 0 | 0 | 0 | 29.82 | 13 | 9.3 | 9.4 | 17 | SE | 3.3 | 31 | 10 | 8 | 28 |
| 29 | 71 | 46 | 59 | 5 | 49 | 6 | 0 | 1 3 8 | 0 | .54 | 0 | 29.46 | 21 | 7.3 | 11.7 | 22 | SW | 6.2 | 58 | 6 | 5 | 29 |
| 30 | 56 | 41 | 49 | -5 | 41 | 16 | 0 | 1 | 0 | .56 | 0 | 29.39 | 24 | 5.6 | 8.5 | 15 | SW | 1.4 | 13 | 10 | 8 | 30 |
| 31 | 67 | 38 | 53 | -1 | 46 | 12 | 0 | 1 | 0 | .20 | 0 | 29.45 | 21 | 4.6 | 6.3 | 14 | S | 5.6 | 52 | 9 | 7 | 31 |
| | Sum 2290 | Sum 1462 | | | | Total 163 | Total 32 | Number of days | | Total 2.56 | Total 0 | For the month: 29.89 | 36 | .6 | 6.5 | 22 | SW | Total 234.9 | % for month | Sum 140 | Sum 121 | |
| | Avg. 73.9 | Avg. 47.2 | Avg. 60.6 | Dep. 1.9 | Avg. 50 | Dep. -40 | Dep. | Precipitation ≥ .01 inch 5 | | Dep. -0.44 | | | | | | Date: 29 | | Possible 348.0 | 73 | Avg. 4.5 | Avg. 3.9 | |

| Number of days: Maximum Temp. ≥ 90°‡ | ≤ 32° | Minimum Temp. ≤ 32° | ≤ 0° | Season to date Total 168 | Total 1533 | Snow, ice pellets ≥ 1.0 inch 0 | Thunderstorms 2 | Heavy fog X 3 | Clear 15 | Partly cloudy 9 | Cloudy 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1 | 0 | Dep. -56 | Dep. | | | | | | |

| Greatest in 24 hours and dates: Precipitation | Snow, ice pellets | Greatest depth on ground of snow, ice pellets or ice and date |
|---|---|---|
| 1.11 | 2 | 0 |
| | 0 | |

## HOURLY PRECIPITATION (Water equivalent in inches)

| Date | A. M. Hour ending at 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | P. M. Hour ending at 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| 2 | | | | | | | | | | .09 | T | .69 | .31 | .02 | | | | | | | | | | | 2 |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | 6 |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | 7 |
| 8 | | | | | | T | .10 | .05 | T | | | | | | | | | | | | | | | | 8 |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | 9 |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | 10 |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | 11 |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | 12 |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | 13 |
| 14 | | | T | T | T | | | | | | | | | | | | | | | | | | | | 14 |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | 15 |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | 16 |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | 17 |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | 18 |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | 19 |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | 20 |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | 21 |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | 22 |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | 23 |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | 25 |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | 26 |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | 27 |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | 28 |
| 29 | | | .14 | .02 | | | .35 | .03 | | T | | | | | | | | | | | | | | | 29 |
| 30 | | | | | T | .05 | .02 | | T | T | T | | | T | .04 | .16 | .09 | .15 | .05 | T | | | | | 30 |
| 31 | | | | | | | | | | | | | | | | | | .06 | .04 | .03 | T | T | .05 | .02 | 31 |

* 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.
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.

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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

| Hour Local time | Averages: Sky cover Tenths | Station pressure In. | Temperature Air °F | Wet bulb °F | Dew Pt. °F | Relative humidity % | Wind speed m.p.h. | Resultant wind Direction | Speed m.p.h. |
|---|---|---|---|---|---|---|---|---|---|
| 01 | 3 | 29.90 | 54 | 51 | 49 | 86 | 4.8 | 29 | .2 |
| 04 | 4 | 29.89 | 52 | 50 | 49 | 89 | 5.2 | 28 | .5 |
| 07 | 4 | 29.92 | 52 | 50 | 49 | 88 | 5.4 | 01 | 1.1 |
| 10 | 5 | 29.93 | 65 | 58 | 52 | 66 | 8.5 | 02 | 1.2 |
| 13 | 5 | 29.87 | 71 | 60 | 50 | 50 | 9.1 | 28 | 1.0 |
| 16 | 4 | 29.85 | 71 | 59 | 50 | 50 | 8.2 | 33 | 1.1 |
| 19 | 4 | 29.87 | 59 | 55 | 51 | 76 | 5.6 | 07 | 1.1 |
| 22 | 3 | 29.89 | 56 | 53 | 50 | 82 | 5.0 | 01 | 1.2 |



NOTICE: CLIMATOLOGICAL NORMALS BASED ON THE PERIOD 1941-1970 ARE EFFECTIVE AS FOLLOWS
HEATING DEGREE DAYS - JULY 1, 1973
COOLING DEGREE DAYS, TEMPERATURE, AND PRECIPITATION - JANUARY 1, 1974

USB Exp

# OBSERVATIONS AT 3-HOUR INTERVALS

| Day | Hour | Sky Cover Tenths | Ceiling Hnds. of ft. | Visibility Whole Miles | Visibility 16ths Mile | Weather | Air °F | Wet Bulb °F | Dew Pt. °F | Rel. Hum. % | Wind Dir. | Wind Speed Knots | Sky Cover Tenths | Ceiling Hnds. of ft. | Visibility Whole Miles | Visibility 16ths Mile | Weather | Air °F | Wet Bulb °F | Dew Pt. °F | Rel. Hum. % | Wind Dir. | Wind Speed Knots |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY 01 | 01 | 10 | 100 | 10 | | | 63 | 60 | 58 | 84 | 05 | 4 | 7 | 60 | 10 | 7 | | 67 | 65 | 64 | 90 | 02 | 4 |
| | 04 | 10 | 80 | 10 | | | 62 | 59 | 57 | 84 | 04 | 5 | 10 | 24 | 7 | | | 66 | 65 | 64 | 93 | 06 | 5 |
| | 07 | 10 | 50 | 10 | | | 63 | 59 | 57 | 81 | 03 | 7 | 10 | 80 | 7 | | | 70 | 67 | 65 | 84 | 10 | 7 |
| | 10 | 10 | 40 | 10 | | | 69 | 63 | 59 | 71 | 06 | 10 | 10 | 40 | 4 | | | 73 | 71 | 70 | 90 | 12 | 7 |
| | 13 | 10 | 25 | 10 | | | 69 | 63 | 60 | 73 | 07 | 9 | 10 | 6 | 1 | 8 | TRWH | 67 | 66 | 65 | 93 | 33 | 10 |
| | 16 | 10 | 25 | 10 | | | 70 | 64 | 61 | 73 | 06 | 6 | 10 | 50 | 12 | | | 72 | 69 | 67 | 84 | 09 | 4 |
| | 19 | 10 | 60 | 12 | | | 70 | 66 | 63 | 79 | 09 | 8 | 9 | 250 | 12 | | | 68 | 66 | 65 | 90 | 30 | 4 |
| | 22 | 10 | 60 | 10 | | | 68 | 65 | 63 | 84 | 07 | 8 | 6 | 250 | 12 | | | 66 | 65 | 64 | 93 | 34 | 3 |
| DAY 04 | 01 | 0 | UNL | 10 | | | 61 | 60 | 60 | 97 | 17 | 3 | 0 | UNL | 5 | | GFH | 64 | 63 | 62 | 93 | 17 | 4 |
| | 04 | 0 | UNL | 8 | | | 62 | 61 | 60 | 93 | 17 | 4 | 0 | UNL | 5 | | GFH | 62 | 61 | 60 | 93 | 18 | 5 |
| | 07 | 1 | UNL | 3 | | GF | 62 | 61 | 60 | 93 | 21 | 4 | 2 | UNL | 5 | | GFH | 62 | 61 | 60 | 93 | 18 | 4 |
| | 10 | 0 | UNL | 3 | | H | 76 | 68 | 64 | 66 | 31 | 7 | 10 | UNL | 7 | | | 82 | 71 | 65 | 56 | 30 | 7 |
| | 13 | 0 | UNL | 7 | | | 85 | 70 | 62 | 46 | 36 | 4 | 7 | 40 | 7 | | | 86 | 71 | 63 | 46 | 32 | 12 |
| | 16 | 0 | UNL | 12 | | | 84 | 69 | 60 | 44 | 19 | 4 | 0 | UNL | 10 | | | 83 | 69 | 62 | 49 | 36 | 9 |
| | 19 | 0 | UNL | 8 | | | 70 | 68 | 67 | 90 | 13 | 3 | 0 | UNL | 12 | | | 69 | 57 | 47 | 46 | 01 | 10 |
| | 22 | 0 | UNL | 4 | | H | 66 | 65 | 64 | 93 | 00 | 0 | 0 | UNL | 12 | | | 62 | 53 | 44 | 52 | 01 | 12 |
| DAY 07 | 01 | 3 | UNL | 12 | | | 47 | 46 | 46 | 96 | 00 | 0 | 0 | UNL | 12 | | RWF | 54 | 53 | 52 | 93 | 15 | 5 |
| | 04 | 3 | UNL | 7 | | | 47 | 46 | 45 | 93 | 00 | 0 | 10 | 80 | 7 | | F | 59 | 57 | 56 | 90 | 00 | 0 |
| | 07 | 9 | 250 | 7 | | | 48 | 46 | 44 | 86 | 00 | 6 | 10 | 20 | 2 | | FH | 58 | 57 | 57 | 96 | 11 | 4 |
| | 10 | 9 | 250 | 6 | | H | 63 | 58 | 54 | 73 | 20 | 5 | 10 | 20 | 2 | 8 | H | 64 | 62 | 60 | 87 | 29 | 5 |
| | 13 | 9 | 250 | 10 | | | 73 | 56 | 46 | 38 | 22 | 7 | 10 | 25 | 2 | | GFH | 65 | 63 | 61 | 87 | 17 | 4 |
| | 16 | 2 | UNL | 12 | | | 74 | 58 | 44 | 34 | 21 | 7 | 10 | 30 | 5 | | | 68 | 64 | 61 | 78 | 19 | 3 |
| | 19 | 7 | UNL | 12 | | | 57 | 54 | 52 | 83 | 12 | 4 | 10 | 120 | 6 | | | 64 | 62 | 61 | 90 | 12 | 5 |
| | 22 | 0 | UNL | 12 | | | 55 | 54 | 53 | 93 | 00 | 0 | 10 | 25 | 6 | | | 64 | 62 | 61 | 90 | 00 | 0 |
| DAY 10 | 01 | 10 | 50 | 8 | | | 63 | 62 | 61 | 93 | 16 | 3 | 9 | 45 | 6 | | GFH | 57 | 56 | 56 | 96 | 00 | 0 |
| | 04 | 10 | 40 | 7 | | | 62 | 61 | 60 | 93 | 00 | 0 | 10 | 70 | 7 | | | 58 | 57 | 56 | 93 | 04 | 6 |
| | 07 | 10 | 40 | 4 | | | 62 | 61 | 60 | 93 | 31 | 3 | 0 | UNL | 2 | | | 59 | 58 | 57 | 93 | 06 | 7 |
| | 10 | 7 | 250 | 6 | | GFH | 71 | 64 | 59 | 66 | 06 | 5 | 4 | UNL | 8 | | GFH | 69 | 62 | 56 | 68 | 07 | 10 |
| | 13 | 7 | 250 | 8 | | H | 75 | 65 | 59 | 58 | 11 | 4 | 10 | 35 | 8 | | | 69 | 60 | 54 | 59 | 04 | 8 |
| | 16 | 3 | UNL | 8 | | | 75 | 65 | 59 | 58 | 07 | 0 | 3 | UNL | 10 | | | 68 | 59 | 53 | 59 | 06 | 7 |
| | 19 | 3 | UNL | 8 | | | 64 | 62 | 60 | 87 | 00 | 0 | 10 | 50 | 10 | | | 61 | 57 | 54 | 78 | 07 | 5 |
| | 22 | 0 | UNL | 10 | | | 60 | 59 | 59 | 97 | 00 | 0 | 0 | UNL | 10 | | | 54 | 53 | 52 | 93 | 09 | 4 |
| DAY 13 | 01 | 0 | UNL | 10 | | | 52 | 50 | 49 | 90 | 21 | 4 | 10 | 120 | 7 | | RW | 66 | 60 | 55 | 68 | 23 | 11 |
| | 04 | 0 | UNL | 6 | | | 48 | 47 | 47 | 96 | 16 | 4 | 10 | 100 | 7 | | GF | 65 | 61 | 58 | 78 | 23 | 10 |
| | 07 | 0 | UNL | 4 | | GF | 48 | 47 | 46 | 93 | 20 | 3 | 8 | 70 | 4 | | | 64 | 61 | 59 | 84 | 30 | 5 |
| | 10 | 0 | UNL | 8 | | GF | 67 | 59 | 54 | 63 | 25 | 8 | 1 | UNL | 10 | | | 75 | 64 | 56 | 52 | 36 | 10 |
| | 13 | 1 | UNL | 8 | | | 75 | 62 | 52 | 45 | 22 | 11 | 1 | UNL | 12 | | | 78 | 61 | 48 | 35 | 29 | 8 |
| | 16 | 7 | UNL | 8 | | | 73 | 61 | 52 | 48 | 23 | 9 | 1 | UNL | 12 | | | 77 | 58 | 43 | 30 | 31 | 10 |
| | 19 | 7 | 250 | 7 | | | 64 | 57 | 52 | 65 | 21 | 7 | 0 | UNL | 12 | | | 58 | 53 | 49 | 72 | 00 | 0 |
| | 22 | 10 | 250 | 7 | | | 66 | 59 | 53 | 63 | 20 | 8 | 0 | UNL | 12 | | | 54 | 51 | 48 | 80 | 32 | 4 |
| DAY 16 | 01 | 0 | UNL | 15 | | | 64 | 57 | 51 | 63 | 25 | 10 | 1 | UNL | 12 | | | 42 | 40 | 37 | 79 | 01 | 4 |
| | 04 | 7 | UNL | 15 | | | 61 | 55 | 51 | 70 | 25 | 6 | 0 | UNL | 12 | | | 38 | 36 | 33 | 82 | 20 | 3 |
| | 07 | 1 | UNL | 12 | | | 55 | 52 | 50 | 83 | 00 | 0 | 0 | UNL | 8 | | | 37 | 36 | 34 | 89 | 36 | 4 |
| | 10 | 10 | UNL | 12 | | | 69 | 59 | 52 | 53 | 06 | 8 | 1 | UNL | 12 | | | 58 | 46 | 32 | 57 | 34 | 6 |
| | 13 | 5 | UNL | 12 | | | 73 | 61 | 52 | 48 | 02 | 9 | 3 | UNL | 12 | | | 60 | 46 | 30 | 32 | 30 | 10 |
| | 16 | 1 | UNL | 12 | | | 70 | 59 | 50 | 49 | 04 | 9 | 4 | UNL | 12 | | | 58 | 45 | 30 | 35 | 33 | 9 |
| | 19 | 6 | UNL | 15 | | | 56 | 53 | 50 | 80 | 02 | 5 | 0 | UNL | 15 | | | 45 | 39 | 30 | 56 | 35 | 6 |
| | 22 | 5 | UNL | 20 | | | 51 | 44 | 36 | 57 | 34 | 5 | 0 | UNL | 12 | | | 38 | 36 | 32 | 79 | 30 | 4 |
| DAY 19 | 01 | 0 | UNL | 12 | | | 50 | 45 | 39 | 66 | 03 | 6 | 0 | UNL | 12 | | | 44 | 42 | 40 | 86 | 20 | 6 |
| | 04 | 0 | UNL | 12 | | | 42 | 40 | 38 | 86 | 34 | 4 | 0 | UNL | 10 | | | 44 | 42 | 40 | 86 | 20 | 5 |
| | 07 | 0 | UNL | 10 | | | 42 | 40 | 37 | 83 | 01 | 5 | 0 | UNL | 5 | | | 48 | 46 | 43 | 83 | 21 | 7 |
| | 10 | 0 | UNL | 12 | | | 56 | 47 | 37 | 49 | 02 | 11 | 0 | UNL | 8 | | | 64 | 55 | 47 | 54 | 22 | 9 |
| | 13 | 0 | UNL | 12 | | | 61 | 49 | 36 | 39 | 14 | 5 | 0 | UNL | 10 | | | 76 | 60 | 47 | 36 | 23 | 10 |
| | 16 | 0 | UNL | 12 | | | 62 | 49 | 34 | 35 | 17 | 4 | 1 | UNL | 10 | | | 78 | 62 | 50 | 38 | 31 | 7 |
| | 19 | 0 | UNL | 12 | | | 47 | 44 | 40 | 77 | 00 | 0 | 3 | UNL | 12 | | | 61 | 56 | 53 | 73 | 01 | 7 |
| | 22 | 0 | UNL | 12 | | | 44 | 42 | 40 | 86 | 16 | 3 | 1 | UNL | 12 | | | 61 | 55 | 50 | 67 | 03 | 9 |
| DAY 22 | 01 | 0 | UNL | 12 | | | 43 | 42 | 40 | 89 | 00 | 0 | 2 | UNL | 6 | 8 | GF | 47 | 46 | 45 | 93 | 36 | 3 |
| | 04 | 0 | UNL | 12 | | | 42 | 41 | 39 | 89 | 34 | 4 | 5 | UNL | 0 | 1 | GF | 45 | 44 | 44 | 96 | 35 | 5 |
| | 07 | 0 | UNL | 4 | | GFH | 41 | 40 | 39 | 93 | 35 | 5 | 10 | 2 | 0 | 2 | F | 46 | 45 | 45 | 96 | 33 | 4 |
| | 10 | 0 | UNL | 7 | | | 60 | 54 | 49 | 67 | 02 | 4 | 10 | 4 | 0 | | F | 54 | 53 | 53 | 96 | 30 | 3 |
| | 13 | 3 | UNL | 7 | | | 67 | 57 | 48 | 51 | 02 | 3 | 2 | UNL | 8 | | | 65 | 59 | 55 | 70 | 05 | 4 |
| | 16 | 3 | UNL | 8 | | | 68 | 57 | 48 | 49 | 12 | 4 | 3 | UNL | 7 | | | 69 | 60 | 53 | 57 | 03 | 5 |
| | 19 | 3 | UNL | 7 | | | 52 | 50 | 49 | 90 | 13 | 4 | 0 | UNL | 7 | | | 55 | 53 | 51 | 86 | 03 | 3 |
| | 22 | 0 | UNL | 7 | | | 49 | 48 | 48 | 96 | 05 | 3 | 0 | UNL | 7 | | | 53 | 51 | 50 | 90 | 36 | 3 |
| DAY 25 | 01 | 0 | UNL | 10 | | | 53 | 50 | 48 | 83 | 02 | 7 | 0 | UNL | 5 | | H | 51 | 49 | 47 | 86 | 33 | 7 |
| | 04 | 0 | UNL | 6 | | H | 50 | 48 | 46 | 86 | 01 | 9 | 0 | UNL | 4 | | H | 48 | 47 | 46 | 93 | 36 | 7 |
| | 07 | 2 | UNL | 2 | | GFH | 49 | 47 | 46 | 89 | 01 | 10 | 0 | UNL | 4 | | H | 48 | 46 | 44 | 86 | 34 | 6 |
| | 10 | 1 | UNL | 6 | | H | 65 | 56 | 49 | 56 | 04 | 10 | 0 | UNL | 4 | | H | 63 | 55 | 48 | 58 | 32 | 7 |
| | 13 | 2 | UNL | 7 | | | 75 | 58 | 43 | 32 | 03 | 12 | 0 | UNL | 4 | | H | 74 | 60 | 49 | 41 | 29 | 8 |
| | 16 | 5 | UNL | 10 | | | 73 | 56 | 42 | 33 | 04 | 10 | 0 | UNL | 7 | | | 76 | 61 | 50 | 40 | 32 | 7 |
| | 19 | 4 | UNL | 10 | | | 60 | 54 | 48 | 65 | 02 | 7 | 0 | UNL | 7 | | | 58 | 54 | 51 | 78 | 00 | 0 |
| | 22 | 0 | UNL | 7 | | | 56 | 52 | 48 | 75 | 02 | 6 | 0 | UNL | 7 | | | 60 | 55 | 51 | 72 | 01 | 7 |
| DAY 28 | 01 | 0 | UNL | 5 | | GF | 50 | 49 | 48 | 93 | 13 | 3 | 6 | 100 | 5 | | H | 64 | 61 | 59 | 84 | 13 | 9 |
| | 04 | 0 | UNL | 2 | | GF | 50 | 49 | 49 | 96 | 12 | 4 | 10 | 100 | 7 | | | 62 | 61 | 60 | 93 | 16 | 12 |
| | 07 | 10 | 0 | 0 | 1 | F | 52 | 51 | 50 | 93 | 13 | 4 | 10 | 12 | 6 | | RWF | 60 | 59 | 58 | 93 | 36 | 4 |
| | 10 | 10 | 80 | 3 | | H | 63 | 59 | 56 | 78 | 12 | 10 | 9 | 12 | 4 | | K | 61 | 59 | 58 | 90 | 18 | 8 |
| | 13 | 9 | 80 | 7 | | | 72 | 61 | 53 | 51 | 13 | 12 | 2 | UNL | 10 | | | 70 | 56 | 43 | 38 | 20 | 14 |
| | 16 | 10 | 60 | 7 | | | 69 | 59 | 52 | 55 | 12 | 10 | 4 | UNL | 10 | | | 61 | 50 | 39 | 44 | 27 | 15 |
| | 19 | 10 | 100 | 7 | | | 64 | 58 | 54 | 70 | 13 | 12 | 0 | UNL | 12 | | | 51 | 45 | 39 | 64 | 24 | 12 |
| | 22 | 9 | 100 | 7 | | | 64 | 59 | 56 | 75 | 13 | 10 | 0 | UNL | 12 | | | 47 | 42 | 36 | 66 | 24 | 7 |
| DAY 31 | 01 | 2 | UNL | 1 | 8 | GF | 43 | 43 | 42 | 96 | 17 | 4 | | | | | | | | | | | |
| | 04 | 0 | UNL | 10 | | | 43 | 42 | 40 | 89 | 24 | 7 | | | | | | | | | | | |
| | 07 | 7 | UNL | 10 | | | 40 | 44 | 42 | 86 | 26 | 5 | | | | | | | | | | | |
| | 10 | 10 | 250 | 10 | | | 38 | 53 | 46 | 70 | 26 | 5 | | | | | | | | | | | |
| | 13 | 10 | 120 | 10 | | | 65 | 55 | 47 | 52 | 18 | 8 | | | | | | | | | | | |
| | 16 | 10 | 100 | 12 | | | 63 | 54 | 47 | 56 | 23 | 4 | | | | | | | | | | | |
| | 19 | 10 | 80 | 4 | | RGF | 54 | 52 | 51 | 90 | 11 | 4 | | | | | | | | | | | |
| | 22 | 10 | 60 | 6 | | RGF | 53 | 52 | 51 | 93 | 18 | 6 | | | | | | | | | | | |

| Day | Hour | Sky Cover Tenths | Ceiling Hnds. of ft. | Visibility Whole Miles | Visibility 16ths Mile | Weather | Air °F | Wet Bulb °F | Dew Pt. °F | Rel. Hum. % | Wind Dir. | Wind Speed Knots |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY 03 | 01 | 3 | UNL | 4 | | | 63 | 62 | 61 | 93 | 30 | 4 |
| | 04 | 0 | UNL | 6 | | | 61 | 60 | 60 | 97 | 23 | 3 |
| | 07 | 4 | UNL | 2 | | | 61 | 60 | 59 | 93 | 19 | 3 |
| | 10 | 5 | UNL | 7 | | | 75 | 70 | 68 | 79 | 23 | 7 |
| | 13 | 3 | UNL | 7 | | | 83 | 72 | 66 | 57 | 24 | 7 |
| | 16 | 4 | UNL | 12 | | | 82 | 69 | 62 | 51 | 29 | 7 |
| | 19 | 8 | 120 | 12 | | | 70 | 67 | 65 | 84 | 20 | 5 |
| | 22 | 4 | UNL | 12 | | | 65 | 64 | 64 | 97 | 00 | 0 |
| DAY 06 | 01 | 0 | UNL | 12 | | | 55 | 49 | 43 | 64 | 01 | 6 |
| | 04 | 0 | UNL | 12 | | | 50 | 46 | 42 | 74 | 36 | 6 |
| | 07 | 0 | UNL | 12 | | | 50 | 46 | 42 | 74 | 34 | 5 |
| | 10 | 0 | UNL | 12 | | | 66 | 55 | 46 | 49 | 04 | 11 |
| | 13 | 0 | UNL | 12 | | | 71 | 56 | 44 | 38 | 03 | 5 |
| | 16 | 2 | UNL | 12 | | | 72 | 56 | 41 | 33 | 11 | 6 |
| | 19 | 7 | UNL | 12 | | | 56 | 52 | 49 | 78 | 00 | 0 |
| | 22 | 7 | UNL | 12 | | | 50 | 49 | 48 | 93 | 00 | 0 |
| DAY 09 | 01 | 8 | 16 | 5 | | F | 59 | 58 | 58 | 97 | 00 | 0 |
| | 04 | 10 | 30 | 7 | | | 62 | 61 | 60 | 93 | 03 | 3 |
| | 07 | 10 | 45 | 5 | | GF | 63 | 61 | 60 | 90 | 07 | 3 |
| | 10 | 10 | 50 | 7 | | | 70 | 64 | 60 | 71 | 15 | 6 |
| | 13 | 10 | 30 | 8 | | | 73 | 65 | 60 | 64 | 10 | 4 |
| | 16 | 10 | 30 | 8 | | | 70 | 64 | 60 | 71 | 03 | 4 |
| | 19 | 7 | 100 | 8 | | | 65 | 63 | 61 | 87 | 09 | 5 |
| | 22 | 10 | 100 | 10 | | | 64 | 62 | 61 | 90 | 00 | 0 |
| DAY 12 | 01 | 10 | 100 | 10 | | | 53 | 52 | 51 | 93 | 00 | 0 |
| | 04 | 10 | 90 | 10 | | | 55 | 54 | 53 | 93 | 24 | 5 |
| | 07 | 10 | 40 | 8 | | | 57 | 55 | 53 | 87 | 09 | 4 |
| | 10 | 4 | UNL | 3 | | H | 65 | 59 | 54 | 68 | 21 | 3 |
| | 13 | 4 | UNL | 5 | | H | 70 | 59 | 50 | 49 | 14 | 6 |
| | 16 | 2 | UNL | 7 | | | 70 | 59 | 50 | 49 | 13 | 4 |
| | 19 | 2 | UNL | 6 | | H | 56 | 53 | 51 | 83 | 15 | 3 |
| | 22 | 0 | UNL | 5 | | GFH | 52 | 51 | 50 | 93 | 00 | 0 |
| DAY 15 | 01 | 0 | UNL | 12 | | | 46 | 45 | 45 | 96 | 00 | 0 |
| | 04 | 0 | UNL | 12 | | | 44 | 43 | 41 | 89 | 00 | 0 |
| | 07 | 0 | UNL | 12 | | | 46 | 44 | 41 | 83 | 19 | 4 |
| | 10 | 1 | UNL | 12 | | | 71 | 58 | 48 | 44 | 22 | 6 |
| | 13 | 6 | UNL | 12 | | | 78 | 61 | 48 | 35 | 24 | 11 |
| | 16 | 0 | UNL | 12 | | | 79 | 62 | 50 | 36 | 23 | 10 |
| | 19 | 0 | UNL | 12 | | | 70 | 59 | 51 | 51 | 24 | 8 |
| | 22 | 0 | UNL | 15 | | | 68 | 58 | 51 | 55 | 25 | 12 |
| DAY 18 | 01 | 0 | UNL | 12 | | | 34 | 33 | 31 | 89 | 17 | 3 |
| | 04 | 0 | UNL | 12 | | | 32 | 31 | 30 | 92 | 00 | 0 |
| | 07 | 2 | UNL | 8 | | | 34 | 33 | 30 | 85 | 23 | 3 |
| | 10 | 5 | UNL | 10 | | | 59 | 47 | 34 | 39 | 23 | 8 |
| | 13 | 2 | UNL | 12 | | | 68 | 50 | 31 | 25 | 21 | 13 |
| | 16 | 0 | UNL | 12 | | | 70 | 52 | 33 | 26 | 22 | 11 |
| | 19 | 3 | UNL | 12 | | | 57 | 47 | 35 | 44 | 20 | 7 |
| | 22 | 0 | UNL | 12 | | | 47 | 43 | 39 | 74 | 35 | 3 |
| DAY 21 | 01 | 0 | UNL | 12 | | | 56 | 52 | 49 | 78 | 01 | 7 |
| | 04 | 0 | UNL | 12 | | | 51 | 48 | 46 | 83 | 36 | 7 |
| | 07 | 0 | UNL | 7 | | | 48 | 46 | 44 | 86 | 02 | 7 |
| | 10 | 0 | UNL | 10 | | | 62 | 54 | 46 | 56 | 07 | 9 |
| | 13 | 1 | UNL | 10 | | | 67 | 55 | 45 | 45 | 06 | 10 |
| | 16 | 0 | UNL | 12 | | | 66 | 54 | 44 | 45 | 04 | 8 |
| | 19 | 0 | UNL | 12 | | | 50 | 47 | 43 | 77 | 07 | 3 |
| | 22 | 0 | UNL | 12 | | | 45 | 43 | 41 | 86 | 08 | 3 |
| DAY 24 | 01 | 4 | UNL | 5 | | H | 51 | 50 | 49 | 93 | 35 | 4 |
| | 04 | 0 | UNL | 4 | | GFH | 48 | 48 | 48 | 100 | 35 | 5 |
| | 07 | 3 | UNL | 1 | | GFH | 48 | 47 | 46 | 93 | 36 | 6 |
| | 10 | 4 | 1 | | | FH | 55 | 54 | 53 | 93 | 36 | 9 |
| | 13 | 5 | UNL | 6 | | H | 69 | 60 | 54 | 59 | 01 | 7 |
| | 16 | 1 | UNL | 12 | | | 72 | 60 | 50 | 46 | 04 | 9 |
| | 19 | 2 | UNL | 12 | | | 58 | 54 | 50 | 75 | 36 | 5 |
| | 22 | 0 | UNL | 10 | | | 56 | 52 | 48 | 75 | 02 | 7 |
| DAY 27 | 01 | 0 | UNL | 10 | | | 52 | 49 | 46 | 80 | 35 | 4 |
| | 04 | 0 | UNL | 10 | | | 45 | 44 | 43 | 93 | 00 | 0 |
| | 07 | 0 | UNL | 8 | | | 49 | 47 | 45 | 86 | 05 | 3 |
| | 10 | 0 | UNL | 10 | | H | 66 | 56 | 48 | 52 | 04 | 8 |
| | 13 | 0 | UNL | 6 | | | 72 | 58 | 47 | 41 | 36 | 6 |
| | 16 | 0 | UNL | 8 | | | 71 | 56 | 44 | 38 | 23 | 4 |
| | 19 | 0 | UNL | 8 | | | 53 | 50 | 47 | 80 | 00 | 0 |
| | 22 | 0 | UNL | 8 | | | 49 | 47 | 46 | 89 | 13 | 3 |
| DAY 30 | 01 | 5 | UNL | 12 | | | 47 | 41 | 33 | 58 | 23 | 5 |
| | 04 | 10 | 100 | 12 | | | 45 | 41 | 36 | 71 | 20 | 7 |
| | 07 | 10 | 45 | 5 | | F | 42 | 41 | 40 | 93 | 19 | 11 |
| | 10 | 10 | 15 | 7 | | RW | 44 | 43 | 41 | 89 | 22 | 10 |
| | 13 | 9 | 25 | 10 | | | 53 | 48 | 42 | 66 | 25 | 9 |
| | 16 | 10 | 28 | 2 | | RWF | 47 | 46 | 45 | 93 | 31 | 7 |
| | 19 | 9 | 7 | 3 | | RWF | 47 | 46 | 45 | 93 | 35 | 6 |
| | 22 | 9 | UNL | 7 | | | 45 | 44 | 43 | 93 | 28 | 4 |

## NOTES

CEILING COLUMN—

UNL indicates an unlimited ceiling.

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
- IP Ice pellets
- A 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, 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.

STATION: RICHMOND VA

YEAR & MONTH: 73 10

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