# LOCAL CLIMATOLOGICAL DATA

U. S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION, WEATHER BUREAU

RICHMOND, VIRGINIA
BYRD FIELD
SEPTEMBER 1965

Latitude 37°30'N Longitude 77°20'W Elevation (ground) 162 ft. Standard time used: EASTERN

| Date | Temperature (°F) Maximum | Minimum | Average | Departure from normal | Average dew point | Degree days (Base 65°) | Weather types shown by code 1-9 on dates of occurrence (1 Fog, 2 Heavy Fog, 3 Thunderstorm, 4 Sleet, 5 Hail, 6 Glaze, 7 Duststorm, 8 Smoke, Haze, 9 Blowing Snow) | Snow, Sleet, or Ice on ground at 07AM (In.) | Precipitation Total (Water equivalent) (In.) | Snow, sleet (In.) | Avg. station pressure (In.) --- Elev. 164 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 Total (Hours and tenths) | Percent of possible | Sky cover (Tenths) Sunrise to sunset | Midnight to midnight | Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 1 | 87 | 62 | 75 | 1 | 63 | 0 | | 0 | .23 | 0 | 29.84 | 20 | 8.2 | 10.9 | 20 | SW | 6.7 | 52 | 7 | 6 | 1 |
| 2 | 75 | 57 | 66 | 8 | 56 | 0 | | 0 | 0 | 0 | 29.99 | 03 | 3.6 | 4.3 | 12 | NE | 5.8 | 45 | 9 | 8 | 2 |
| 3 | 77 | 56 | 67 | 7 | 56 | 0 | 1 8 | 0 | 0 | 0 | 30.04 | 09 | 3.7 | 5.9 | 12 | SE | 11.3 | 88 | 9 | 7 | 3 |
| 4 | 79 | 56 | 68 | 6 | 57 | 0 | | 0 | 0 | 0 | 30.08 | 06 | 6.0 | 6.8 | 14 | E | 11.6 | 90 | 3 | 2 | 4 |
| 5 | 79 | 58 | 69 | 5 | 57 | 0 | 1 8 | 0 | 0 | 0 | 30.09 | 07 | 5.2 | 8.6 | 13 | SE | 10.4 | 81 | 4 | 4 | 5 |
| 6 | 80 | 53 | 67 | 7 | 55 | 0 | 2 8 | 0 | 0 | 0 | 30.09 | 04 | 6.8 | 6.9 | 14 | NE | 9.4 | 73 | 4 | 3 | 6 |
| 7 | 81 | 48 | 65 | 8 | 53 | 0 | 1 8 | 0 | 0 | 0 | 30.01 | 04 | 2.3 | 4.9 | 9 | SE | 12.8 | 100 | 0 | 0 | 7 |
| 8 | 87 | 53 | 70 | 3 | 55 | 0 | 8 | 0 | 0 | 0 | 29.91 | 22 | 4.6 | 5.0 | 10 | S | 12.7 | 100 | 3 | 2 | 8 |
| 9 | 90 | 58 | 74 | 1 | 57 | 0 | 8 | 0 | 0 | 0 | 29.93 | 21 | 6.1 | 6.5 | 13 | SW | 12.7 | 100 | 1 | 0 | 9 |
| 10 | 92 | 62 | 77 | 4 | 66 | 0 | 1 8 | 0 | 0 | 0 | 29.91 | 21 | 8.3 | 8.6 | 13 | SW | 12.6 | 100 | 1 | 1 | 10 |
| 11 | 92* | 67 | 80 | 8 | 69 | 0 | 1 8 | 0 | .09 | 0 | 29.95 | 02 | .6 | 4.6 | 25 | N | 7.6 | 60 | 6 | 8 | 11 |
| 12 | 71 | 67 | 69 | 3 | 68 | 0 | 2 | 0 | .40 | 0 | 30.02 | 04 | 6.0 | 6.6 | 9 | E | 0.0 | 0 | 10 | 10 | 12 |
| 13 | 81 | 68 | 75 | 3 | 71 | 0 | 1 | 0 | 2.11 | 0 | 29.89 | 16 | 1.0 | 6.0 | 15 | SW | 1.3 | 11 | 9 | 8 | 13 |
| 14 | 78 | 68 | 73 | 2 | 68 | 0 | 1 8 | 0 | T | 0 | 29.82 | 07 | 4.6 | 5.8 | 8 | NE | 0.8 | 7 | 9 | 7 | 14 |
| 15 | 86 | 67 | 77 | 6 | 70 | 0 | 1 8 | 0 | 0 | 0 | 29.75 | 20 | 7.3 | 8.1 | 17 | SW | 7.5 | 60 | 7 | 6 | 15 |
| 16 | 84 | 67 | 76 | 5 | 70 | 0 | 1 3 8 | 0 | 1.08 | 0 | 29.90 | 25 | 1.7 | 7.2 | 17 | NW | 5.3 | 43 | 7 | 6 | 16 |
| 17 | 81 | 67 | 74 | 4 | 69 | 0 | 1 8 | 0 | 0 | 0 | 30.12 | 06 | 2.3 | 4.5 | 11 | SE | 2.4 | 20 | 8 | 8 | 17 |
| 18 | 87 | 68 | 78 | 8 | 71 | 0 | 2 8 | 0 | 0 | 0 | 30.14 | 22 | 1.5 | 3.5 | 5 | SW | 8.5 | 69 | 7 | 6 | 18 |
| 19 | 90 | 66 | 78 | 8 | 71 | 0 | 1 | 0 | 0 | 0 | 30.05 | 30 | .1 | 2.9 | 5 | NW | 9.5 | 77 | 2 | 1 | 19 |
| 20 | 89 | 68 | 79 | 10 | 70 | 0 | 1 8 | 0 | 0 | 0 | 30.04 | 19 | 3.7 | 4.5 | 7 | S | 11.4 | 93 | 2 | 1 | 20 |
| 21 | 90 | 68 | 79 | 10 | 71 | 0 | 1 8 | 0 | 0 | 0 | 30.04 | 20 | 6.7 | 6.8 | 10 | SW | 10.6 | 87 | 3 | 2 | 21 |
| 22 | 86 | 70 | 78 | 10 | 69 | 0 | 1 8 | 0 | 0 | 0 | 30.03 | 20 | 8.3 | 8.5 | 14 | S | 11.6 | 95 | 2 | 1 | 22 |
| 23 | 86 | 64 | 75 | 7 | 67 | 0 | 1 8 | 0 | 0 | 0 | 29.93 | 20 | 5.1 | 5.6 | 11 | SW | 11.5 | 95 | 2 | 1 | 23 |
| 24 | 85 | 62 | 74 | 6 | 67 | 0 | 3 | 0 | .83 | 0 | 29.69 | 22 | 4.8 | 6.9 | 25 | W | 4.3 | 36 | 9 | 9 | 24 |
| 25 | 70 | 50 | 60 | 7 | 53 | 5 | | 0 | .07 | 0 | 29.79 | 02 | 7.2 | 8.1 | 14 | NE | 8.1 | 67 | 5 | 5 | 25 |
| 26 | 72 | 46* | 59 | 8 | 49 | 6 | | 0 | 0 | 0 | 29.98 | 32 | .8 | 3.3 | 6 | W | 9.5 | 79 | 5 | 5 | 26 |
| 27 | 69 | 52 | 61 | 6 | 51 | 4 | 8 | 0 | 0 | 0 | 30.14 | 03 | 6.3 | 6.3 | 15 | NE | 9.0 | 75 | 7 | 6 | 27 |
| 28 | 68 | 50 | 59 | 7 | 52 | 6 | | 0 | 0 | 0 | 30.10 | 03 | 6.7 | 7.1 | 11 | NE | 3.8 | 31 | 8 | 7 | 28 |
| 29 | 74 | 50 | 62 | 4 | 53 | 3 | 8 | 0 | 0 | 0 | 29.94 | 04 | 1.6 | 4.8 | 5 | SE | 11.8 | 99 | 2 | 2 | 29 |
| 30 | 76 | 51 | 64 | 1 | 56 | 1 | 1 8 | 0 | 0 | 0 | 29.97 | 16 | 6.6 | 6.9 | 13 | SE | 11.8 | 100 | 2 | 2 | 30 |

| Sum | Sum | — | — | — | Total | Dep. | Temperature: | Total | Total | For the month: | | | | | Total | % for month | Sum | Sum |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2442 | 1799 | — | — | — | 25 | -11 | Number of days | 4.81 | 0 | 29.97 | 15 | 1.0 | 6.2 | 25 W | 252.3 | | 153 | 134 |
| Avg. | Avg. | Avg. | Dep. | Avg. | Season to date | | Max. ≤32° / Max. ≥90° / Min. ≤32° / Min. ≤0° | Dep. | — | — | — | — | — | Date: 24 | Possible | | Avg. | Avg. |
| 81.4 | 60.0 | 70.7 | .5 | 62 | Total | Dep. | | 1.16 | — | — | — | — | — | — | 372.7 | 68 | 5.1 | 4.5 |
| | | | | | 31 | -5 | 0 5 0 0 | | | | | | | | | | | |

| Greatest in 24 hours and dates | | | Greatest depth on ground of snow, sleet or ice and date |
|---|---|---|---|
| Precipitation | | Snow, Sleet | |
| 2.45 | 12-13 | 0 | 0 |

* Extreme for the month.
T In columns 9, 10, and 11 and in the Hourly Precipitation table indicates an amount too small to measure.
X Heavy fog - visibility 1/4 mile or less.

## HOURLY PRECIPITATION (In.)

| 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 | | | | | | | | | | | | | | | | | | | | | .23 | | | | 1 |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | 6 |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | 7 |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | 9 |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | 10 |
| 11 | | | | | | | | | | | | | | | T | .08 | .01 | T | | T | T | T | T | T | 11 |
| 12 | T | | | | | | | | | | | | | | | .06 | .32 | .01 | T | .01 | T | | | | 12 |
| 13 | | .01 | 1.19 | .72 | .07 | .01 | T | T | T | | | | | | | .11 | | | | | | | | | 13 |
| 14 | | | | | | | | T | T | T | | | | | | | | | | | | | | | 14 |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | 15 |
| 16 | | | | | | | | | | | | | | T | T | .02 | T | | | .68 | .38 | | | | 16 |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | 17 |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | 18 |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | 19 |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | 20 |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | 21 |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | 22 |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | 23 |
| 24 | | | | | | | | | | | | | T | | .09 | | .50 | .19 | .04 | T | T | T | T | .01 | 24 |
| 25 | .06 | .01 | T | | | | | | | | | | | | | | | | | | | | | | 25 |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | 26 |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | 27 |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | 28 |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | 29 |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | 30 |

Data in columns 6, 12, 13, 14, and 15 are obtained from 8 observations per day at 3-hourly intervals. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations; directions are given in tens of degrees from true North. When figures appear in column 17, they indicate directions in tens of degrees from true North (i. e., 09 = East, 27 = West) and the associated speed in column 16 is the fastest observed one-minute wind speed. If / follows direction (Col. 17), speeds are gusts. Corrections, if any, to data in this issue will be published in the annual issue.

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William H. Haggard
Acting Director of National Weather Records Center

## 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.) | Resultant wind Direction | Speed (m.p.h.) |
|---|---|---|---|---|---|---|---|---|---|
| 01 | 4 | 29.97 | 64 | 62 | 92 | 61 | 4.6 | 16 | .8 |
| 04 | 3 | 29.97 | 62 | 61 | 94 | 60 | 4.6 | 05 | .4 |
| 07 | 5 | 29.99 | 63 | 61 | 94 | 61 | 4.6 | 07 | .8 |
| 10 | 5 | 30.01 | 74 | 67 | 69 | 63 | 8.1 | 14 | .4 |
| 13 | 6 | 29.98 | 79 | 69 | 58 | 62 | 8.1 | 20 | 1.9 |
| 16 | 5 | 29.94 | 79 | 68 | 58 | 62 | 8.1 | 15 | 2.1 |
| 19 | 4 | 29.95 | 71 | 66 | 78 | 63 | 5.8 | 14 | 1.5 |
| 22 | 4 | 29.98 | 66 | 63 | 88 | 62 | 5.8 | 13 | 1.8 |

USCOMM-WB-Asheville, N.C. 300

## OBSERVATIONS AT 3-HOUR INTERVALS.

| HOUR | SKY COVER (Tenths Cover) | CEILING (Hnds. of ft.) | VISIBILITY (Whole Miles) | VISIBILITY (Sixth Mi.) | WEATHER | DRY BULB (°F) | WET BULB (°F) | REL. HUM. (%) | DEW PT. (°F) | WIND DIR. | WIND SPEED (Knots) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **DAY 01** | | | | | | | | | | | |
| 01 | 0 | UNL | 10 | | | 64 | 60 | 78 | 57 | 18 | 7 |
| 04 | 0 | UNL | 10 | | | 63 | 61 | 87 | 59 | 19 | 10 |
| 07 | 6 | 35 | 10 | | | 66 | 62 | 81 | 60 | 20 | 9 |
| 10 | 6 | 28 | 8 | | | 77 | 69 | 64 | 64 | 21 | 10 |
| 13 | 8 | 30 | 12 | | | 84 | 71 | 53 | 65 | 21 | 12 |
| 16 | 10 | 30 | 10 | | | 84 | 71 | 53 | 65 | 20 | 12 |
| 19 | 9 | 35 | 10 | | | 80 | 71 | 62 | 66 | 20 | 7 |
| 22 | 10 | 20 | 7 | | | 71 | 67 | 79 | 64 | 03 | 9 |
| **DAY 02** | | | | | | | | | | | |
| 01 | 3 | UNL | 10 | | | 65 | 62 | 84 | 60 | 36 | 5 |
| 04 | 0 | UNL | 12 | | | 60 | 59 | 93 | 58 | 00 | |
| 07 | 8 | 120 | 12 | | | 59 | 58 | 97 | 58 | 01 | 3 |
| 10 | 8 | CIR | 15 | | | 71 | 61 | 55 | 54 | 03 | 7 |
| 13 | 10 | CIR | 15 | | | 74 | 61 | 45 | 51 | 02 | 7 |
| 16 | 10 | CIR | 15 | | | 74 | 61 | 46 | 52 | 05 | 3 |
| 19 | 10 | 150 | 12 | | | 67 | 62 | 73 | 58 | 07 | 3 |
| 22 | 10 | UNL | 12 | | | 59 | 58 | 93 | 57 | 19 | 2 |
| **DAY 03** | | | | | | | | | | | |
| 01 | 10 | 120 | 12 | | | 58 | 57 | 93 | 56 | 00 | |
| 04 | 8 | 120 | 5 | GF | | 56 | 55 | 93 | 54 | 02 | 4 |
| 07 | 10 | 80 | 5 | H | | 58 | 56 | 90 | 55 | 01 | 4 |
| 10 | 10 | CIR | 12 | | | 70 | 63 | 66 | 58 | 04 | 8 |
| 13 | 10 | CIR | 12 | | | 75 | 63 | 50 | 55 | 11 | 10 |
| 16 | 8 | UNL | 12 | | | 75 | 63 | 48 | 54 | 14 | 10 |
| 19 | 2 | UNL | 10 | | | 66 | 61 | 76 | 58 | 15 | 5 |
| 22 | 0 | UNL | 10 | | | 59 | 57 | 90 | 56 | 00 | |
| **DAY 04** | | | | | | | | | | | |
| 01 | 0 | UNL | 10 | | | 56 | 55 | 93 | 54 | 01 | 5 |
| 04 | 0 | UNL | 10 | | | 57 | 56 | 93 | 55 | 04 | 5 |
| 07 | 0 | UNL | 8 | | | 60 | 58 | 90 | 57 | 03 | 6 |
| 10 | 6 | 25 | 10 | | | 73 | 65 | 64 | 60 | 05 | 5 |
| 13 | 3 | UNL | 15 | | | 76 | 64 | 50 | 56 | 12 | 3 |
| 16 | 3 | UNL | 15 | | | 77 | 65 | 50 | 57 | 07 | 11 |
| 19 | 0 | UNL | 15 | | | 69 | 62 | 68 | 58 | 09 | 7 |
| 22 | 0 | UNL | 15 | | | 61 | 59 | 87 | 57 | 05 | 5 |
| **DAY 05** | | | | | | | | | | | |
| 01 | 0 | UNL | 10 | | | 58 | 56 | 90 | 55 | 02 | 5 |
| 04 | 2 | UNL | 8 | | | 58 | 56 | 90 | 55 | 02 | 6 |
| 07 | 10 | 5 | 2 | F | | 61 | 60 | 93 | 59 | 04 | 6 |
| 10 | 2 | UNL | 8 | | | 71 | 63 | 61 | 57 | 05 | 10 |
| 13 | 0 | UNL | 12 | | | 76 | 65 | 54 | 58 | 18 | 11 |
| 16 | 3 | UNL | 10 | | | 78 | 65 | 49 | 57 | 11 | 12 |
| 19 | 3 | UNL | 10 | | | 69 | 62 | 68 | 58 | 09 | 5 |
| 22 | 7 | 100 | 12 | | | 64 | 60 | 81 | 58 | 04 | 5 |
| **DAY 06** | | | | | | | | | | | |
| 01 | 8 | 100 | 10 | | | 62 | 61 | 93 | 60 | 04 | 4 |
| 04 | 1 | UNL | 7 | | | 60 | 59 | 97 | 59 | 03 | 6 |
| 07 | 7 | UNL | 012 | F | | 60 | 59 | 97 | 59 | 02 | 5 |
| 10 | 6 | 15 | 10 | | | 71 | 64 | 66 | 59 | 05 | 11 |
| 13 | 3 | UNL | 15 | | | 76 | 63 | 48 | 55 | 03 | 8 |
| 16 | 2 | UNL | 15 | | | 79 | 62 | 36 | 50 | 04 | 9 |
| 19 | 0 | UNL | 15 | | | 67 | 58 | 55 | 50 | 03 | 5 |
| 22 | 0 | UNL | 15 | | | 57 | 53 | 78 | 50 | 00 | |
| **DAY 07** | | | | | | | | | | | |
| 01 | 0 | UNL | 12 | | | 52 | 50 | 90 | 49 | 35 | 3 |
| 04 | 0 | UNL | 7 | | | 50 | 49 | 93 | 48 | 36 | 5 |
| 07 | 0 | UNL | 5 | GF | | 54 | 53 | 93 | 52 | 01 | 3 |
| 10 | 0 | UNL | 8 | | | 74 | 63 | 52 | 55 | 05 | 6 |
| 13 | 0 | UNL | 10 | | | 79 | 64 | 41 | 53 | 03 | 7 |
| 16 | 0 | UNL | 12 | | | 80 | 64 | 41 | 54 | 16 | 4 |
| 19 | 1 | UNL | 10 | | | 71 | 63 | 61 | 57 | 19 | 3 |
| 22 | 0 | UNL | 12 | | | 63 | 59 | 78 | 56 | 14 | 3 |
| **DAY 08** | | | | | | | | | | | |
| 01 | 0 | UNL | 7 | | | 57 | 55 | 90 | 54 | 00 | |
| 04 | 0 | UNL | 7 | | | 55 | 53 | 90 | 52 | 00 | |
| 07 | 0 | UNL | 4 | H | | 58 | 56 | 90 | 55 | 00 | |
| 10 | 3 | UNL | 6 | H | | 78 | 65 | 47 | 56 | 25 | 7 |
| 13 | 6 | UNL | 7 | | | 85 | 67 | 36 | 55 | 23 | 10 |
| 16 | 0 | UNL | 7 | | | 86 | 67 | 35 | 55 | 21 | 8 |
| 19 | 3 | UNL | 12 | | | 73 | 63 | 57 | 57 | 18 | 6 |
| 22 | 0 | UNL | 12 | | | 66 | 60 | 68 | 55 | 19 | 4 |
| **DAY 09** | | | | | | | | | | | |
| 01 | 0 | UNL | 10 | | | 63 | 58 | 73 | 54 | 19 | 4 |
| 04 | 0 | UNL | 10 | | | 60 | 57 | 81 | 54 | 19 | 3 |
| 07 | 6 | UNL | 6 | H | | 62 | 59 | 84 | 57 | 18 | 5 |
| 10 | 0 | UNL | 7 | | | 81 | 66 | 44 | 57 | 23 | 10 |
| 13 | 0 | UNL | 8 | | | 88 | 68 | 35 | 57 | 22 | 8 |
| 16 | 0 | UNL | 8 | | | 89 | 69 | 35 | 58 | 22 | 5 |
| 19 | 0 | UNL | 8 | | | 75 | 66 | 60 | 60 | 19 | 5 |
| 22 | 0 | UNL | 12 | | | 67 | 63 | 81 | 61 | 19 | 5 |
| **DAY 10** | | | | | | | | | | | |
| 01 | 0 | UNL | 10 | | | 66 | 63 | 84 | 61 | 20 | 5 |
| 04 | 0 | UNL | 10 | | | 63 | 61 | 90 | 60 | 21 | 6 |
| 07 | 5 | UNL | 4 | GF | | 66 | 65 | 97 | 65 | 19 | 7 |
| 10 | 0 | UNL | 7 | | | 80 | 73 | 69 | 69 | 23 | 12 |
| 13 | 3 | UNL | 10 | | | 89 | 76 | 54 | 70 | 22 | 9 |
| 16 | 0 | UNL | 10 | | | 92 | 74 | 42 | 66 | 22 | 10 |
| 19 | 1 | UNL | 12 | | | 79 | 69 | 58 | 63 | 20 | 6 |
| 22 | 8 | UNL | 12 | | | 74 | 72 | 90 | 71 | 19 | 5 |
| **DAY 11** | | | | | | | | | | | |
| 01 | 10 | UNL | 12 | | | 73 | 71 | 90 | 70 | 21 | 4 |
| 04 | 6 | UNL | 10 | | | 68 | 67 | 97 | 67 | 20 | 4 |
| 07 | 6 | UNL | 7 | | | 67 | 67 | 100 | 67 | 18 | 3 |
| 10 | 8 | 40 | 7 | | | 86 | 74 | 57 | 69 | 20 | 3 |
| 13 | 8 | 40 | 7 | | | 91 | 75 | 47 | 68 | 00 | |
| 16 | 10 | 40 | 4 | RWH | | 71 | 70 | 93 | 69 | 02 | 8 |
| 19 | 10 | 80 | 5 | H | | 72 | 71 | 93 | 70 | 02 | 5 |
| 22 | 10 | 80 | 5 | RH | | 70 | 69 | 97 | 69 | 02 | 5 |
| **DAY 12** | | | | | | | | | | | |
| 01 | 10 | 4 | 1 | F | | 69 | 69 | 100 | 69 | 04 | 4 |
| 04 | 10 | 7 | 1 | F | | 69 | 68 | 97 | 68 | 03 | 7 |
| 07 | 10 | 9 | 2 | F | | 68 | 67 | 93 | 66 | 01 | 4 |
| 10 | 10 | 7 | 2 | F | | 67 | 66 | 97 | 66 | 04 | 5 |
| 13 | 10 | 8 | 2 | F | | 70 | 69 | 93 | 68 | 05 | 4 |
| 16 | 10 | 5 | 1 | 8RWF | | 70 | 69 | 93 | 68 | 01 | 6 |
| 19 | 10 | 3 | 1 | 8RWF | | 69 | 69 | 100 | 69 | 04 | 8 |
| 22 | 10 | 2 | 1 | 8F | | 69 | 69 | 100 | 69 | 09 | 8 |
| **DAY 13** | | | | | | | | | | | |
| 01 | 10 | 4 | 1 | 8F | | 70 | 70 | 100 | 70 | 06 | 4 |
| 04 | 10 | 4 | 1 | RF | | 69 | 69 | 100 | 69 | 05 | 5 |
| 07 | 10 | 3 | 1 | 8RF | | 69 | 69 | 100 | 69 | 08 | 3 |
| 10 | 9 | 14 | 5 | F | | 76 | 75 | 94 | 74 | 22 | 6 |
| 13 | 10 | 25 | 8 | | | 78 | 73 | 79 | 71 | 20 | 11 |
| 16 | 10 | 20 | 7 | | | 76 | 75 | 94 | 74 | 17 | 5 |
| 19 | 7 | 80 | 7 | | | 73 | 72 | 93 | 71 | 35 | 4 |
| 22 | 3 | UNL | 7 | | | 70 | 69 | 97 | 69 | 36 | 4 |
| **DAY 14** | | | | | | | | | | | |
| 01 | 7 | 80 | 7 | | | 68 | 68 | 100 | 68 | 07 | 3 |
| 04 | 7 | UNL | 7 | | | 68 | 68 | 100 | 68 | 02 | 3 |
| 07 | 10 | 12 | 2 | F | | 68 | 68 | 100 | 68 | 36 | 5 |
| 10 | 10 | 12 | 5 | H | | 71 | 69 | 90 | 68 | 05 | 4 |
| 13 | 10 | 50 | 5 | H | | 76 | 71 | 79 | 69 | 08 | 5 |
| 16 | 10 | UNL | 4 | H | | 78 | 72 | 74 | 69 | 07 | 10 |
| 19 | 3 | UNL | 2 | 8H | | 72 | 69 | 87 | 68 | 11 | 6 |
| 22 | 2 | UNL | 2 | GFH | | 68 | 67 | 97 | 67 | 13 | 4 |
| **DAY 15** | | | | | | | | | | | |
| 01 | 10 | 8 | 1 | 8F | | 67 | 66 | 97 | 66 | 13 | 4 |
| 04 | 10 | 5 | 1 | 8F | | 68 | 68 | 100 | 68 | 17 | 3 |
| 07 | 10 | 2 | 0 | 8F | | 69 | 69 | 100 | 69 | 18 | 7 |
| 10 | 10 | 15 | 4 | H | | 76 | 73 | 85 | 71 | 21 | 6 |
| 13 | 8 | UNL | 7 | | | 84 | 76 | 67 | 72 | 23 | 10 |
| 16 | 3 | UNL | 7 | | | 86 | 76 | 61 | 71 | 21 | 13 |
| 19 | 0 | UNL | 8 | | | 77 | 72 | 79 | 70 | 20 | 7 |
| 22 | 0 | UNL | 8 | | | 75 | 72 | 85 | 70 | 20 | 6 |
| **DAY 16** | | | | | | | | | | | |
| 01 | 0 | UNL | 8 | | | 73 | 71 | 90 | 70 | 20 | 9 |
| 04 | 0 | UNL | 8 | | | 69 | 68 | 93 | 67 | 20 | 7 |
| 07 | 1 | UNL | 7 | | | 69 | 68 | 97 | 68 | 21 | 4 |
| 10 | 10 | 20 | 7 | | | 80 | 73 | 72 | 70 | 20 | 3 |
| 13 | 10 | 25 | 5 | TH | | 82 | 75 | 72 | 72 | 04 | 4 |
| 16 | 9 | 20 | 5 | TRWH | | 75 | 72 | 87 | 71 | 06 | 3 |
| 19 | 10 | 12 | 5 | TH | | 75 | 73 | 90 | 72 | 31 | 15 |
| 22 | 6 | 80 | 12 | | | 67 | 66 | 97 | 66 | 04 | 5 |
| **DAY 17** | | | | | | | | | | | |
| 01 | 6 | 120 | 7 | | | 67 | 67 | 100 | 67 | 23 | 3 |
| 04 | 10 | 7 | 3 | F | | 67 | 67 | 100 | 67 | 01 | 3 |
| 07 | 8 | 3 | 1 | 8F | | 68 | 68 | 100 | 68 | 04 | 4 |
| 10 | 10 | 7 | 2 | F | | 71 | 70 | 97 | 70 | 04 | 4 |
| 13 | 10 | 15 | 5 | H | | 76 | 73 | 85 | 71 | 03 | 5 |
| 16 | 5 | UNL | 7 | | | 80 | 74 | 74 | 71 | 07 | 5 |
| 19 | 5 | UNL | 12 | | | 73 | 70 | 87 | 69 | 10 | 3 |
| 22 | 10 | 12 | 7 | | | 71 | 70 | 93 | 69 | 18 | 4 |
| **DAY 18** | | | | | | | | | | | |
| 01 | 10 | 1 | 0 | 4F | | 69 | 69 | 100 | 69 | 18 | 3 |
| 04 | 10 | 1 | 0 | 1F | | 69 | 69 | 100 | 69 | 22 | 4 |
| 07 | 10 | 1 | 0 | 2F | | 68 | 68 | 100 | 68 | 17 | 3 |
| 10 | 5 | UNL | 5 | H | | 76 | 73 | 87 | 72 | 24 | 4 |
| 13 | 9 | UNL | 7 | | | 84 | 76 | 67 | 72 | 33 | 4 |
| 16 | 6 | UNL | 8 | | | 86 | 76 | 61 | 71 | 00 | |
| 19 | 1 | UNL | 8 | | | 79 | 75 | 82 | 73 | 03 | 3 |
| 22 | 0 | UNL | 8 | | | 72 | 71 | 93 | 70 | 19 | 3 |
| **DAY 19** | | | | | | | | | | | |
| 01 | 0 | UNL | 7 | | | 70 | 69 | 93 | 68 | 00 | |
| 04 | 0 | UNL | 7 | | | 68 | 67 | 97 | 67 | 00 | |
| 07 | 0 | UNL | 6 | GF | | 69 | 68 | 97 | 68 | 00 | |
| 10 | 0 | UNL | 7 | | | 84 | 76 | 67 | 72 | 34 | 6 |
| 13 | 5 | UNL | 7 | | | 88 | 77 | 59 | 72 | 26 | 4 |
| 16 | 2 | UNL | 8 | | | 89 | 76 | 55 | 71 | 06 | 3 |
| 19 | 6 | UNL | 8 | | | 79 | 76 | 85 | 74 | 14 | 4 |
| 22 | 0 | UNL | 7 | | | 74 | 73 | 94 | 72 | 18 | 3 |
| **DAY 20** | | | | | | | | | | | |
| 01 | 0 | UNL | 7 | | | 71 | 70 | 93 | 69 | 12 | 2 |
| 04 | 0 | UNL | 7 | | | 69 | 68 | 97 | 68 | 19 | 2 |
| 07 | 0 | UNL | 2 | GF | | 70 | 69 | 97 | 69 | 00 | |
| 10 | 0 | UNL | 7 | | | 84 | 76 | 67 | 72 | 21 | 8 |
| 13 | 0 | UNL | 7 | | | 87 | 76 | 59 | 71 | 23 | 4 |
| 16 | 0 | UNL | 8 | | | 88 | 75 | 53 | 69 | 20 | 6 |
| 19 | 0 | UNL | 8 | | | 77 | 73 | 82 | 71 | 15 | 6 |
| 22 | 0 | UNL | 8 | | | 72 | 71 | 93 | 70 | 15 | 3 |
| **DAY 21** | | | | | | | | | | | |
| 01 | 0 | UNL | 7 | | | 72 | 71 | 93 | 70 | 20 | 6 |
| 04 | 0 | UNL | 7 | | | 70 | 69 | 97 | 69 | 20 | 4 |
| 07 | 0 | UNL | 3 | GF | | 70 | 70 | 100 | 70 | 19 | 4 |
| 10 | 0 | UNL | 7 | | | 82 | 76 | 74 | 73 | 20 | 8 |
| 13 | 0 | UNL | 7 | | | 88 | 76 | 57 | 71 | 21 | 6 |
| 16 | 4 | UNL | 10 | | | 89 | 76 | 55 | 71 | 21 | 7 |
| 19 | 3 | UNL | 10 | | | 80 | 74 | 77 | 72 | 19 | 7 |
| 22 | 0 | UNL | 10 | | | 75 | 71 | 82 | 69 | 18 | 5 |
| **DAY 22** | | | | | | | | | | | |
| 01 | 0 | UNL | 10 | | | 74 | 71 | 87 | 70 | 20 | 8 |
| 04 | 0 | UNL | 8 | | | 72 | 70 | 90 | 69 | 21 | 6 |
| 07 | 0 | UNL | 4 | GFH | | 70 | 69 | 97 | 69 | 18 | 4 |
| 10 | 0 | UNL | 7 | | | 81 | 73 | 69 | 70 | 21 | 6 |
| 13 | 6 | 30 | 10 | | | 85 | 75 | 61 | 70 | 20 | 12 |
| 16 | 2 | UNL | 10 | | | 85 | 73 | 55 | 67 | 21 | 12 |
| 19 | 0 | UNL | 10 | | | 74 | 69 | 79 | 67 | 18 | 5 |
| 22 | 0 | UNL | 10 | | | 72 | 69 | 84 | 67 | 18 | 6 |
| **DAY 23** | | | | | | | | | | | |
| 01 | 0 | UNL | 10 | | | 68 | 66 | 90 | 65 | 19 | 6 |
| 04 | 0 | UNL | 10 | | | 66 | 65 | 93 | 64 | 15 | 4 |
| 07 | 0 | UNL | 5 | GFH | | 66 | 65 | 97 | 65 | 18 | 4 |
| 10 | 2 | UNL | 10 | | | 79 | 72 | 69 | 68 | 21 | 7 |
| 13 | 4 | UNL | 12 | | | 84 | 73 | 57 | 67 | 22 | 5 |
| 16 | 2 | UNL | 15 | | | 85 | 72 | 53 | 66 | 23 | 6 |
| 19 | 2 | UNL | 15 | | | 77 | 72 | 79 | 70 | 19 | 3 |
| 22 | 0 | UNL | 15 | | | 71 | 68 | 87 | 67 | 18 | 4 |
| **DAY 24** | | | | | | | | | | | |
| 01 | 4 | UNL | 12 | | | 70 | 69 | 93 | 68 | 18 | 5 |
| 04 | 7 | 80 | 10 | | | 69 | 68 | 93 | 67 | 20 | 3 |
| 07 | 9 | 80 | 10 | | | 69 | 68 | 93 | 67 | 19 | 4 |
| 10 | 8 | CIR | 10 | | | 77 | 72 | 79 | 70 | 21 | 5 |
| 13 | 8 | 25 | 10 | | | 81 | 72 | 65 | 68 | 21 | 12 |
| 16 | 10 | 25 | 8 | | | 79 | 72 | 69 | 68 | 21 | 8 |
| 19 | 10 | 30 | 7 | RW | | 66 | 65 | 97 | 65 | 27 | 5 |
| 22 | 10 | 12 | 7 | RW | | 64 | 62 | 90 | 61 | 36 | 6 |
| **DAY 25** | | | | | | | | | | | |
| 01 | 10 | 35 | 7 | R | | 61 | 60 | 97 | 60 | 35 | 5 |
| 04 | 10 | 35 | 7 | | | 61 | 59 | 90 | 58 | 02 | 6 |
| 07 | 5 | UNL | 10 | | | 58 | 55 | 84 | 53 | 02 | 10 |
| 10 | 9 | 40 | 15 | | | 62 | 56 | 67 | 51 | 02 | 10 |
| 13 | 3 | UNL | 15 | | | 68 | 58 | 53 | 50 | 01 | 8 |
| 16 | 1 | UNL | 15 | | | 67 | 57 | 53 | 49 | 02 | 11 |
| 19 | 0 | UNL | 15 | | | 58 | 55 | 81 | 52 | 01 | 3 |
| 22 | 0 | UNL | 12 | | | 52 | 51 | 93 | 50 | 16 | 3 |
| **DAY 26** | | | | | | | | | | | |
| 01 | 0 | UNL | 12 | | | 48 | 47 | 93 | 46 | 00 | |
| 04 | 0 | UNL | 12 | | | 47 | 46 | 93 | 45 | 01 | 3 |
| 07 | 0 | UNL | 8 | | | 47 | 46 | 93 | 45 | 00 | |
| 10 | 1 | UNL | 12 | | | 64 | 56 | 58 | 49 | 09 | 3 |
| 13 | 7 | UNL | 12 | | | 70 | 58 | 46 | 48 | 36 | 4 |
| 16 | 8 | CIR | 15 | | | 71 | 58 | 43 | 47 | 31 | 6 |
| 19 | 10 | 100 | 12 | | | 61 | 58 | 81 | 55 | 21 | 4 |
| 22 | 8 | CIR | 10 | | | 57 | 55 | 87 | 53 | 19 | 3 |
| **DAY 27** | | | | | | | | | | | |
| 01 | 10 | CIR | 10 | | | 55 | 54 | 96 | 54 | 00 | |
| 04 | 3 | UNL | 10 | | | 53 | 52 | 93 | 51 | 00 | |
| 07 | 10 | CIR | 10 | | | 54 | 51 | 80 | 48 | 03 | 7 |
| 10 | 5 | UNL | 6 | H | | 65 | 58 | 63 | 52 | 03 | 9 |
| 13 | 9 | 40 | 8 | | | 67 | 58 | 57 | 51 | 03 | 9 |
| 16 | 4 | UNL | 8 | | | 67 | 58 | 57 | 51 | 04 | 9 |
| 19 | 3 | UNL | 8 | | | 57 | 53 | 78 | 50 | 04 | 5 |
| 22 | 6 | CIR | 8 | | | 54 | 51 | 80 | 48 | 03 | 5 |
| **DAY 28** | | | | | | | | | | | |
| 01 | 5 | UNL | 8 | | | 51 | 49 | 90 | 48 | 02 | 6 |
| 04 | 2 | UNL | 8 | | | 50 | 49 | 93 | 48 | 01 | 6 |
| 07 | 7 | UNL | 8 | | | 50 | 49 | 96 | 49 | 01 | 6 |
| 10 | 5 | UNL | 10 | | | 64 | 58 | 70 | 54 | 04 | 9 |
| 13 | 10 | 25 | 10 | | | 66 | 59 | 65 | 54 | 06 | 7 |
| 16 | 10 | 25 | 8 | | | 66 | 59 | 65 | 54 | 04 | 6 |
| 19 | 10 | 25 | 8 | | | 62 | 58 | 78 | 55 | 05 | 4 |
| 22 | 6 | 35 | 8 | | | 56 | 54 | 90 | 53 | 01 | 5 |
| **DAY 29** | | | | | | | | | | | |
| 01 | 3 | UNL | 8 | | | 55 | 53 | 90 | 52 | 03 | 5 |
| 04 | 3 | UNL | 8 | | | 51 | 50 | 93 | 49 | 36 | 5 |
| 07 | 0 | UNL | 7 | | | 51 | 50 | 96 | 50 | 01 | 3 |
| 10 | 2 | UNL | 8 | | | 66 | 58 | 61 | 52 | 09 | 6 |
| 13 | 4 | UNL | 8 | | | 71 | 62 | 57 | 55 | 29 | 4 |
| 16 | 0 | UNL | 7 | | | 72 | 62 | 57 | 56 | 17 | 3 |
| 19 | 0 | UNL | 7 | | | 64 | 60 | 81 | 58 | 05 | 3 |
| 22 | 0 | UNL | 7 | | | 57 | 56 | 93 | 55 | 19 | 4 |
| **DAY 30** | | | | | | | | | | | |
| 01 | 0 | UNL | 7 | | | 55 | 54 | 93 | 53 | 00 | |
| 04 | 0 | UNL | 5 | GF | | 52 | 51 | 93 | 50 | 00 | |
| 07 | 0 | UNL | 3 | GF | | 54 | 54 | 100 | 54 | 14 | 3 |
| 10 | 0 | UNL | 5 | H | | 69 | 63 | 71 | 59 | 18 | 7 |
| 13 | 4 | UNL | 5 | H | | 74 | 64 | 58 | 58 | 17 | 10 |
| 16 | 0 | UNL | 5 | H | | 75 | 65 | 58 | 59 | 15 | 10 |
| 19 | 3 | UNL | 6 | H | | 66 | 62 | 78 | 59 | 13 | 7 |
| 22 | 9 | 100 | 6 | H | | 64 | 61 | 84 | 59 | 16 | 11 |

### REFERENCE NOTES

CEILING COLUMN-

UNL indicates ceiling unlimited.
CIR indicates a cirriform 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 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